

>sp|P62633|CNBP_HUMAN Cellular nucleic acid-binding protein OS=Homo sapiens OX=9606
GN=CNBP PE=1 SV=1

MSSNECFKCRSGHWARECPTGGGRGRGMRSRGRGGFTSDRGFQFVSSSLPDICYRCGES
GHLAKDCDLQEDACYNCGRGGHIAKDCKEPKREREQCCYNCGKPGHLARDCDHADEQKCY
SCGEFGHIQKDCTKVVCYRCGETGHVAINCSKTSEVNCYRCGESGHLARECTIEATA

>sp|P01344|IGF2_HUMAN Insulin-like growth factor II OS=Homo sapiens OX=9606 GN=IGF2 PE=1
SV=1

MGIPMGKSMLVLLTFLAFASCCIAAYRPSETLCGGELVDTLQFVCGDRGFYFSRPASRVS
RRSRGIVEECCFRSCDLALLETCATPAKSERDVSTPPTVLPDNFPRYPVGKFFQYDTWK
QSTQRLRRGLPALLRARRGHVLAKELEAFREAKRHRPLIALPTQDPAHGGAPPEMASNRK

>sp|P56270|MAZ_HUMAN Myc-associated zinc finger protein OS=Homo sapiens OX=9606 GN=MAZ
PE=1 SV=1

MFPVPFCTLLAPFPVLGLDSRGVGLMNSFPPPQGHAQNPLQVGAELQSRFFASQGCAQ
SPFQAAPAPPPTPQAPAAEPLQVDLLPVLAAQESAAAAAAAAAAAAVAAAPPAPAAAS
TVDTAALKQPPAPPPPPPPVSAPAAEAAPPASAATIAAAAAATAVVAPTSTVAVAPVASAL
EKKTCSKGPYICALCAKEFKNGYNLRRHEAIIHTGAKAGRVPSGAMKMPTMVPLSLLSVPQ
LSGAGGGGGEAGAGGAAAVAAGGVVTTTASGKRIRKNHACEMCGKAFRDVYHLNRHKLS
HSDEKPYQCPVCQQRFKRKDRMSYHVRSHDGAHVHPYNCSCGKSFSRDPHLNSHVRQVH
STERPFKCEKCEAAAFATKDRLRAHTVRHEEKVPCHVCGKMLSSAYISDHMKVHSQGPHHV
CELCNKGTGEVCPMAAAAAAAAAAAAAVAAAPPTAVGSLSGAEGVPVSSQPLPSQPW

>sp|P09651|ROA1_HUMAN Heterogeneous nuclear ribonucleoprotein A1 OS=Homo sapiens OX=9606
GN=HNRNPA1 PE=1 SV=5

MSKSESPKEPEQLRKLFIGGLSFETTTDESLRSHFEQWGTLTDCVVMRDPNTRSRGFGFV
TYATVEEVDAAMNARPHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEHH
LRDYFEQYQKIEVIEIMTDRSGSKRGFAFVTFDDHDSVDKIVIQKYHTVNGHNCEVRKA
LSKQEMASASSSQRGRSGSGNFGGGRGGFGGNDNFRGGNFSGRGGFGGSRGGGGYGGG
GDGYNGFGNDGGYGGGGPGYSGGSRGYSGGQGYGNQSGYGGSGSYDSYNNGGGGFGG
GSGSNFGGGGSYNDFGNYNNQSSNFGPMKGGNFGGRSSGPYGGGGQYFAKPRNQGGYGGG
SSSSSYGSGRRF

>sp|P19338|NUCL_HUMAN Nucleolin OS=Homo sapiens OX=9606 GN=NCL PE=1 SV=3

MVKLAKAGKNQGDPPKMAPPPKEVEEDSEDEEMSEDEEDDSSGEEVVPQKKGKAAATS
AKKVVVSPTKKVAVATPAKKAATPGKKAATPAKKTVTPAKAVTTPGKKGATPGKALVA
TPGKKGAAIPAKGAKNGKNAKKEDSDEEEDDDSEDEEDEDDEDEDEDEIEPAAMKAAA
APASEDEDEDDEDDEDDDDDEEDDSEEEAMETTPAKGKKAAKVVPVAKNVAEDEDEEE
DDEDEDDEDEDDEDDEDEDEDEEEEEEEEEEPVKEAPGKRKKEMAKQKAAPEAKKQKVEG
TEPTTAFNLFVGNLFNKSAPELKTGISDVFAKNDLAVVDVRIGMTRKFGYVDFESAEDL
EKALELTGLKVFNGNEIKLEKPKGKDSKKERDARTLLAKNLPYKVTQDELKEVFEDAAEIR
LVSKDGKSKGIAYIEFKTEADAETFEKQGTETIDGRSISLYYTGEKGQNQDYRGGKNST
WSGESKTLVLSNLSYSATEETLQEVFEKATFIKVPQNQNGKSKGYAFIEFASFEDAKEAL
NSCNKREIEGRAIRLELQGPRGSPNARSQPSKTLFVKGLSEDTEETLKESFDGSVRARI

VTDRETGSSKGFVDFNSEEDAKAAKEAMEDGEIDGNKVTLDWAKPKGEGGFGRGGGR
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>sp|P06748|NPM_HUMAN Nucleophosmin OS=Homo sapiens OX=9606 GN=NPM1 PE=1 SV=2
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EAEAMNYEGSPIKVTLATLKMSVQPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVE
EDAESDEEEEEVDKLLSISGKRSAPGGGSKVPQKKVKLAADDDDDDEDDDEDDDDDD
FDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSSTPRSKGQESFKKQEKTPKTPKG
PSSVEDIKAKMQASIEKGGSLPKVEAKFINYVKNCFRMTDQEAIQDLWQWRKSL

>sp|P35637|FUS_HUMAN RNA-binding protein FUS OS=Homo sapiens OX=9606 GN=FUS PE=1 SV=1
MASNDYTQQATQSYGAYPTQPGQGYSSQSSQPYGQQSYSGYSQSTDTSGYGQSSYSSYGQ
SQNTGYGTQSTPQGYGSTGGYSSQSSQSSYGGQSSYPGYGQQPAPSSTSGSYGSSSQSS
SYGQPQSGSYSQQPSYGGQQQSYGQQQSYNPPQGYGQQNQYNSSSGGGGGGGGGNYGQD
QSSMSSGGGSGGYGNQDQSGGGSGGYGQDRGGRGRGGSGGGGGGGGGYNRSSGGYE
PRGRGGGRGGRGGMGSDRGGFNKFGGPRDQGSRHDSEQDNSDNNTIFVQGLGENVTIES
VADYFKQIGIIKTNKKTGQPMINLYTDRETGKLKGEATVSFDDPPSAKAAIDWFDGKEFS
GNPIKVSFATRRADFNRRGGNGRGGRGGMGRGGYGGGSGGGRGGFPSGGGGGGGQ
QRAGDWKCPNPTCENMNFSWRNECNQCKAPKPDGPGGGPGGSHMGGNYGDDRRGGRGGYD
RGGYRGRGGDRGGFRGGRGGGDRGGFGPGKMDSRGEHRQDRRERPY

>sp|Q9NUX5|POTE1_HUMAN Protection of telomeres protein 1 OS=Homo sapiens OX=9606 GN=POT1
PE=1 SV=1
MSLVPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTIVDQTNVKLTCL
LFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQGITSSGFASLTFEGTLGAPIIPRTSS
KYFNFTTEDHKMVEALRVWASTHMSPSWTLKLCDVQPMQYFDLTCQLLGKAEVDGASFL
LKVWDGTRTPFSPWRVLIQDLVLEGDLSHIHLQNLTIDILVYDNHVVHVARSLKVGSLR
IYSLHTKLQSMNSENQTMLSLEFHLHGGTSYGRGIRVLPESNSDVDQLKKDLESANLTAN
QHSDVICQSEPDDSFSSGSVSLYEVECCQLSATILTDHQYLERTPLCAILKQKAPQQY
RIRAKLSYKPRRLFQSVKLHCPKCHLLQEVPEGLDIIIFQDGATKTPDVKLQNTSLYD
SKIWTTKNQKGRKVAHVFKVNGILPLSNECLLLIEGGTLSEICKLSNKFNSVIPVRSGH
EDLELDDLAPFLIQGTIHHYGCKQCSSLRSIQNLNSLVDKTSWIPSSVAEALGIVPLQY
VFVMTFTLDDGTGVLEAYLMSDKFFQIPASEVLMDDDLQKSVDIMDMFCPPGIKIDAY
PWLECFIKSYNVTNGTDNQICYQIFDTTVAEDVI

>sp|P54132|BLM_HUMAN Bloom syndrome protein OS=Homo sapiens OX=9606 GN=BLM PE=1 SV=1
MAAVPQNNLQEQLERHSARTLNNKLSLSPKFSGFTFKKKTSSDNNVSVTNVSVAKTPVL
RNKDVNVTEDFSFSEPLPNTTNQQRVKDFFKNAPAGQETQRGGSKSLLPDFLQTPKEVVC
TTQNTPTVKKSRDTALKKLEFSSPSDSLSTINDWDDMDDFDTSKSFVTPPQSHFVRV
STAQSKKKGKRNFFKAQLYTTNTVKTDLPSPSESEQIDLTEEQKDDSEWLSSDVICIDD
GPIAEVHINEDAQESDSLKTHLEDERDNSEKKKNLEEAELHSTEKVPCIEFDDDDYDTDF
VPPSPEEIIASSSSSKCLSTLKDLDTSRKEDVLSTSKDLLSKPEKMSMQELNPETSTD
CDARQISLQQQLIHVMEHICKLIDTIPDDKLKLLDCGNELLQQRNIRRKLLTEVDFNKSD
ASLLGSLWRYRPDSLDGPMEGDSCPTGNSMKELNFSHLPNSVSPGDCLLTTTLGKTGFS

ATRKNLFRPLFNTHLQKSFVSSNWAETPRLGKKNESSYFPGNVLSTAVKDQNKHTASI
NDLERETQPSYDIDNFDIDDFDDDDWEDIMHNLAASKSSTAAYQPIKEGRPIKSVSERL
SSAKTDCLPVSSTAQNINFSESIQNYTDKSAQNLASRNLKHERFQSLSFPHTKEMMKIFH
KKFGLHNFRTNQLEAINAALLGEDCFILMPTGGGKSLCYQLPACVSPGVTVVISPLRSLI
VDQVQKLTSLDIPATYLTGDKTDSEATNIYQLSKKDPIIKLLYVTPEKICASNRLISTL
ENLYERKLLARFVIDEAHCVSQWGHDFRQDYKRMNMLRQKFPSVPMALTATANPRVQKD
ILTQLKILRPQVFSMSFNHNLKYYVLPKKPKKVAFCLEWIRKHHYPDSGIYCLSRRE
CDTMADTLQRDGLAALAYHAGLSDSARDEVQKQWINQDGCQVICATIAFGMGIDKPDVRF
VIHASLPKSVEGYQESGRAGRIDGEISHCLLFYTYHDVTRLKRLIMMEKDGNHHTRETHF
NNLYSMVHYCENITECRRIQLLAYFGENGFPNPDFCKKHPDVSCDNCKTKDYKTRDVTDD
VKSIVRFVQEHSSEQGMNRIKHVGPSSGRFTMNLVDIFLGSKSAKIQSGIFGKGSAYSRI
NAERLFKKLILDKILDEDLYINANDQAIAYVMLGNKAQTVLNGNLKVDFMETENSSSVKK
QKALVAKVSQREEMVKKCLGELTEVCKSLGKVFVGHYFNIFNTVTLKKLAESLSSDPEVL
LQIDGVTEDEKLEKYGAEIVSVLQKYSEWTSPAEDSSPGISLSSSRGPGRSAAEELDEEIP
VSSHVFASKTRNERKRKKMPASQSKRRKTASSGSKAKGGSATCRKISSKTKSSSIIGSS
SASHTSQATSGANSKLGIMAPPKPINRPFLKPSYAFS

>sp|Q9BX63|FANCJ_HUMAN Fanconi anemia group J protein OS=Homo sapiens OX=9606 GN=BRIP1
PE=1 SV=1

MSSMWSEYTIIGVKIYFPYKAYPSQLAMMNSILRGLNSKQHCLLESPTGSGKSLALLCSA
LAWQQSLSGKPADEGVSEKAQVQLSCCCACHSKDFTNNDMNQGTSRHFNYPPSTPPSERNG
TSSTCQDSPEKTTAAKLSAKKQASIRYDENDDFQVEKKRIRPLETTQQIRKRHCFGTEV
HNLDKVDSDGKTVKLNPLEKINSFSPQKPPGHCSRCCCSTKQNSQESSNTIKKDHTGK
SKIPKIYFGTRTHKQIAQITRELRRRTAYSGVPMITLSSRDHTCVHPEVVGNFNRNEKME
LLDGKNGKSCYFYHGVHKISDQHTLQTFQGMCKAWDIEELVSLGKKLKACPYTTARELIQ
DADIIFCPYNYLLDAQIRESMDLNLKEQVVILDEAHNIEDCARESASYSVTEVQLRFARD
ELDSMVNNNIRKKDHEPLRAVCCSLINWLEANAAYLVERDYESACKIWSGNEMLLTLHKM
GITTATFPIQGHSFAVLQKEEKISPIYGKEEAREVPVISASTQIMLKGLFMVLDYLFQ
NSRFADDYKIAIQQTYSWTNQIDISDKNGLLVLPKNKKRSRQKTAVHVLNFWCLNPAVAF
SDINGKVQTIIVLTSGTSPMKSFSSSELGVTFTIQLANHIKNSQVWGTIGSGPKGRNL
CATFQNTETFEFQDEVGALLSVCQTVSQGILCFLPSYKLEKLKERWLSTGLWHNLELV
KTVIVEPQGGKTNFDELLQVYDAIKYKGEKDGAALLAVCRGKVSEGLDFSDDNARAVI
TIGIPFPNVKDLQVELKRQYNDHHSKLRGLLPGRQWYEQIAYRALNQALGRCIRHRNDWG
ALILVDDRFRNPNPSRYISGLSKWVRQQIQHHSTFESALESLEFSKKHQKVLNVS IKDRT
NIQDNESLTLEVTSLKYSTPPYLLEAASHLSPENFVEDEAKICVQELQCPKIITKNSPLPS
SII SRKEKNDPVFLEEAGKAEKIVISRSTSPTFNKQTKRVSWSSFNSLGQYFTGKIPKAT
PELGSSSENSASSPPRFKTEKMEKSTVLPFTDKCESSNLTVNTSFGSCPQSETIISSLKID
ATLTRKNHSEHPLCSEEALDPDIELSLVSEEDKQSTSNRDFETEAEDESIYFTPELYDPE
DTDEEKNDLAETDRGNRLANNSDCILAKDLFEIRTIKEVDSAREVKAEDCIDTKLNGILH
IEESKIDIDGNVKTWINELELGKTHEIEIKNFKPSPSKNKGMPGFK

>sp|Q9H2U1|DHX36_HUMAN ATP-dependent RNA helicase DHX36 OS=Homo sapiens OX=9606 GN=DHX36
PE=1 SV=2

MSYDYHQNWGRDGGPRSSGGGYGGGPAGGHGGNRSGGGGGGGGGGRGGRGHPGHLKGR

EIGMWYAKKGQKNKEAERQERAVVHMDERREEQIVQLLSVQAKNDKESEAQISWFAPE
DHGYGTEVSTKNTPCSENKLDIQEKKLINQEKKMFRIRNRSYIDRDSEYLLQENEPDGT
DQKLEDLQKKKNDLRYIEMQHFRKLP SYGMQKELVNLIDNHQVTVISGETGCGKTTQV
TQFILDNYIERGKSACRIVCTQPRRISAI SVAERVAERAESCGSGNSTGYQIRLQSRL
PRKQGSILYCTTG IILQWLQSDPYLSSVSHIVLDEIHERNLQSDVLMTVVKDLLNFRSDL
KVILMSATLNAEFSEYFGNCPMIHIPGFTFPVVEYLLEDVIEKIRYVPEQKEHRSQFKR
GFMQGHVNRQEKEEKEAIYKERWPDYVRELRRYSASTVDVEMMEDDKVDNLIVALIR
YIVLEEEDGAILVFLPGWDNISTLHDLMSQVMFKSDKFLI IPLHSLMPTVNQTQVFKRT
PPGVRKIV IATNIAETSITIDDVVYVIDGGKIKETHFDTQNNISTMSAEWVSKANAKQRK
GRAGRVQPGHCYHLYNGLRASLLDDYQLPEILRTPLEELCLQIKILRLGGIAYFLSRLMD
PPSNEAVLLSIRHLMELNALDKQEELTPLGVHLARLPVEPHIGKMILFGALFCCLDPVLT
IAASLSFKDPFV IPLGKEKIADARRKELAKDTRSDHLTVVNAFEGWEEARRRGFRYEKDY
CWEYFLSSNTLQMLHNMKGQFAEHLGAGFVSSRNPKDPESNINSNEKIIKAVICAGLY
PKVAKIRLNLGKKRKMVKVYTKTDGLVAVHPKSVNVEQTD FHYNWLIYHLKMTSSIYLY
DCTEVSPYCLLFFGGDISIQKNDQETIAVDEWIVFQSPARIAHLVKELRKELDILLQEK
IESPHPDVNDTKSRDCAVLSAIDLIKTEKATPRNFPPRFQDGYYS

>sp|P15692|VEGFA_HUMAN Vascular endothelial growth factor A OS=Homo sapiens OX=9606
GN=VEGFA PE=1 SV=2

MNFLLSVWHWSLALLLYLHAKWSQAAPMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVD
IFQEYPDEIEYIFKPSCVPLMRCGGCCNDEGLECVPTESNITMQIMRIKPHQGGHIGEM
SFLQHNKCECRPKKDRARQEKKSVRGKGKGQKRKRKKSRYKSWSVYVGARCCLMPWSLPG
PHPCGPCSERRKHLFVQDPQTCKCCKNTDSRCKARQLELNERTCRCDKPRR

>sp|P08047|SP1_HUMAN Transcription factor Sp1 OS=Homo sapiens OX=9606 GN=SP1 PE=1 SV=3

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LALLAATCSRIESPNENSNNNSQGSPSGGTGELDLTATQLSQGANGWQIISSSSGATPTS
KEQSGSSTNGSNGSESSKNRTVSGGQYVVAAPNLQNNQVLTGLPGVMPNIQYQVIPQFQ
TVDGQQLQFAATGAQVQQDGSGQIQIIPGANQQIITNRGSGGNIIAAMPNLLQAVPLQG
LANNVLSGQTQYVTNPVALNGNITLLPVNSVSAATLTPSSQAVTISSSGSQESGSPVT
SGTTISSASLVSSQASSSFFTANANSYSTTTTSMGIMNFTTSGSSGTNSQGQTPQRVS
GLQGS DALNIQQNQTSGGSLQAGQQKEGEQNQQTQQQQLIQPQLVQGGQALQALQAAPL
SGQTFTTQAISQETLQNLQLQAVPNSGP I IIRTPTVGPNQVSWQTLQLQNLQVQNPQAA
TITLAPMQGVSLGQTSSSNTLTPIASAASIPAGTVTVNAAQLSSMPGLQTINLSALGTS
GIQVHPIQGLPLAIANAPGDHGAQLGLHGAGGDGIHDDTAGGEEGENSPDAQPQAGRRT
REACTCPYCKDSEGRSGDPGKKKQHICHIQGCGKVYKTSHLRAHLRWHTGERPFMCTW
SYCGKRFRTRDELQRHKRTHTEKKFACPECPKRFMRSDHLSKHIKTHQNKKGPGVALS
VGTLPLDSGAGSESGTATPSALITTNMVAMEAICPEGIARLANSGINVMQVADLQSINI
SGNGF

>sp|P38398|BRCA1_HUMAN Breast cancer type 1 susceptibility protein OS=Homo sapiens OX=9606
GN=BRCA1 PE=1 SV=2

MDLSALRVEEVQNVINAMQKILECPICLELIKEPVSTKCDHIFCKFCMLKLLNQKKGPSQ
CPLCKNDITKRSLQESTRFSQLVEELLKIIICAFQLDTGLEYANSYNFAKKENNSPEHLKD

EVSI IQSMGYRNRKRLLQSEPNPSLQETSLSVQLSNLGTVRTLRTKQRIQPQKTSVYI
ELGSDSSEDTVNKATYCSVGDQELLQITPQGTRDEISLDSAKKAACEFSETDVTNTEHHQ
PSNNDLNTTEKRAAERHPEKYQGSSVSNLHVEPCGTNTHASSLQHENSLLLLTKDRMNVE
KAFCNKSQKPLARSQHNRWAGSKETCNDRRTPSTEKKVDLADPLCERKEWNKQKLPC
SENPRDTEVPWITLNSSIQKVNEWFSRDELGSDSDHGESESNKAVADVLDVLNEVD
EYSGSSEKIDLLASDPHEALICKSERVHKS SVESNIEDKIFGKTYRKKASLPNLSHVTEN
LIIGAFVTEPQIIQERPLTNKLKRKRRTSGLHPEDFIKKADLAVQKTPEMINQGTNQTE
QNGQVMNITNSGHENKTGDSIQNEKNPNP IESLEKESAFKTKAEPISSSISNMELELNI
HNSKAPKKNRLRRKSSTRHIIHALELVVSRNLSPPNCTELQIDSCSSSEEIKKKKYNQMPV
RHSRNLQLMGKEPATGAKKSNKPNEQTSKRHDSDTFPELKL TNAPGSFTKCSNTSELKE
FVNPSLPREEKEELETVKVSNNAEDPKDMLSGERVLQTERSVESSSISLVPGTDYGTQ
ESISLLEVSTLGAKTEPNKCVSQA AFENPKGLIHGCSKDNRNDETEGFKYPLGHEVNHS
RETSIEMEESELDAQYLQNTFKVSKRQSFAPFSNPGNAEEECATFSAHSGSLKKQSPKVT
FECEQKEENQGKNESNIKPVTVNITAGFPVVGQKDKPVDNAKCSIKGGSRFCLSSQFRG
NETGLITPNKHGLLQNPYRIPPLFP IKS FVKTKCKKNLLEENFEEHSMSPEREMGNENIP
STVSTISRNNIRENVFKEASSNINEVGSSTNEVGSSINEIGSSDENIQAELGRNRGPKL
NAMLRLGLVLQPEVYKQSLPGSNCKHPEIKKQEYEEVVQTVNTDFSPYLISDNLEQPMGSS
HASVCSETPDDLDDGEIKEDTSFAENDIKESSAVFSKSVQKGELSRSPSPFTHTHLAQ
GYRRGAKKLESSEENLSSDEELPCFQHLLFGKVVNNIPSQSTRHSTVATECLSKNTEENL
LSLKNLNDCSNQVILAKASQEHHLSEETKCSASLFSSQCSELEDLTANTNTQDPFLIGS
SKQMRHQSESQGVGLSDKELVSDDEERGTLGLENQEEQSMDSNLGEAASGCESETSVSE
DCSGLSSQSDILTTQQRDTMQHNLIKLQQEMAELEAVLEQHGSQPSNSYPSIISDSSALE
DLRNPEQSTSEKAVLTSQSSEYPI SQNPEGLSADKFEVSADSSTSKNKEPGVERSSPSK
CPSLDDRWMHSCSGSLQNRNYP SQEELIKVVDVEEQQLEESGPHDLTETSYLPRQDLEG
TPYLESGLISLFSDDPESDPSEDRAPE SARVGNIPSSTSALKVPQLKVAESAQSPAAHTT
DTAGYNAMEESVSREKPELTASTERVNKRMSMVVSGLTPEEFMLVYKFARKHHITLNL I
TEETHVVMKTD AEFVCERTLKYFLGIAGGKWVVS YFWVTQSIKERKMLNEHDFEVRGDV
VNGRNHQGPKRARESQDRKIFRGL EICCYGPFTNMPTDQLEWMVQLCGASVVKELSSFTL
GTGVHPIVVVQPD AWTEDNGFHAIGQMCEAPVVTREWVLDSVALYQCQELDTYLIPQIPH
SHY

>sp|P11387|TOP1_HUMAN DNA topoisomerase 1 OS=Homo sapiens OX=9606 GN=TOP1 PE=1 SV=2
MSGDHLHNSQIEADFRLNDSHKHKDKHKDREHRHKEHKKEKDREKSKHSNSEHKDSEKK
HKEKEKTKHKDGSSEKHKDKHKDRDKEKRKEEKVRASGDAKIKKEKENGFSPPQIKDEP
EDDGYFVPPKEDIKPLKRPRDEDDADYKPKKIKTEDTKKEKKRKLEEEEDGKLKPKPKND
KDKKVPEPDNKKKKPKKEEQKWWWEERYPEGIKWKFLHKGPVFAPPYEPLPENVKF
YYDGKVMKLSPAKEEVATFFAKMLDHEYTTKEIFRKNFFKDWRKEMTNEEKNIITNLSKC
DFTQMSQYFKAQTEARKQMSKEEKLKIKEENEKLLKEYGFCIMDNHKERIANFKIEPPGL
FRGRGNHPKMGM LKRRIMPEDIIINCSKDAKVPSPPPGHKWKEVRHDNKVTWLVSWTENI
QGSIKYIMLPSSRIKGEKDWQKYETARRLKKCVDKIRNQYREDWKSKEMKVRQRAVALY
FIDKLALRAGNEKEEGETADTVGCCSLRVEHINLHPELDGQEYVVEFD FLGKDSIRYYNK
VPVEKRVFKNLQLFMENKQPEDDLFDRLNTGILNHLQDLMEGLTAKVFRTYNASITLQQ
QLKELTAPDENIPAKILSYNRANRAVA ILCNHQRAPPKTFEKSMMNLQTKIDAKKEQLAD
ARRDLKSAKADAKVMKDAKTKKVVESKKKAVQRLEEQLMKLEVQATDREENKQIALGTSK

LNLYDPRITVAWCKKWGPVIEKIYNKTQREKFAWAIDMADEDYEF

>sp|P09874|PARP1_HUMAN Poly [ADP-ribose] polymerase 1 OS=Homo sapiens OX=9606 GN=PARP1 PE=1 SV=4

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GHSIRHPDVEVDGFSELRWDDQKVKKTAEAGGVTGKGQDGIQSKAEKTLGDFAAEYAKS
NRSTCKGCMKEIEKGQVRLSKKMVDPEKPQLGMIDRWYHPGCFVKNREELGFRPEYSASQ
LKGFSLLATEDKEALKKQLPGVKSEGKRKGDEV DGVDEVAKKKSKKEKD KSKLEKALKA
QNDLIWNIKDELKKVCSTNDLKELLI FNKQQVPSGESAILDRVADGMVFGALLPCEEC SG
QLVFKSDAYYCTGDVTAWTKCMVKTQTPNRKEWVTPKEFREISYLKKLVKKQDRIFPPE
TSASVAATPPPSTASAPAAVNSSASADKPLSNMKILTLGKLSRNKDEVKAMIEKLGKKLT
GTANKASLCISTKKEVEKMNKMEEVKEANIRVVSEDFLQDVSASTKSLQELFLAHILSP
WGAEVKAEPVEVVAPRGKSGAALS KSKSGQVKEEGINKSEKRMKLT LKGGA AVDPDSGLE
HSAHVLEKGGKVFSATLGLVDIVKGTNSYYKLQLEDDKENRYWIFRSWGRVGTVIGSNK
LEQMPSKEDAI EHFMKLYEEKTGNAWHSKNFTKYPKKFYPLEIDYGQDEEAVKKLTVNPG
TKSKLPKPVQDLIKMIFDVESMKAMVEYEIDLQKMPLGKLSKRQIQAAYSILSEVQQAV
SQGSSDSQILDLSNRFYTLIPHDFGMKKPPLN NADSVQAKVEMLDNLLDIEVAYSLLRG
GSDDSSKDPIDVNYEKLKTDIKVVD RDSEEA EIIRKYVKNTHATTHNAYDLEVIDIFKIE
REGEQCRYKPFKQLHNRLLWHGSRTTNFAGILS QGLRIAPPEAPVTGYMFGKGIYFADM
VKSANYCHTSQGDPIGLILLGEVALGNMYELKHASHISKLPKGKHSVKGLGKTTDPDSA
NISLDGVDVPLGTGISSGVNDTSLLYNEYIVYDIAQVNLKYLLKLKFNFKTSLW

>sp|P04637|P53_HUMAN Cellular tumor antigen p53 OS=Homo sapiens OX=9606 GN=TP53 PE=1 SV=4

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DEAPRMPEAAPVAPAPAAPTPAAPAPAPSWPLSSSVPSQKTYQGSYGFRLGFLHSGTAK
SVTCTYSPALNKMFCQLAKTCPVQLWVDSTPPPGTRVRAMAIYKQSQHMTVEVVRCPHHE
RCSDSDGLAPPQHILIRVEGNLRVEYLDDRNTFRHSVVVPYEPPEVGSDCTTIHYNMCNS
SCMGMNRRPILTIITLEDSSGNLLGRNSFEVRVCACPGDRDRTEENLRKKGEPHHELP
PGSTKRALPNNTSSSPQPKKKPLDGEYFTLQIRGRERFEMFRELNEALELKDAQAGKEPG
GSRAHSSHLKSKKGQSTSRHKKLMFKTEGPDSD

>sp|Q16666|IFI16_HUMAN Gamma-interferon-inducible protein 16 OS=Homo sapiens OX=9606 GN=IFI16 PE=1 SV=3

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>sp|094761|RECQ4_HUMAN ATP-dependent DNA helicase Q4 OS=Homo sapiens OX=9606 GN=RECQL4
PE=1 SV=2

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>sp|Q07864|DPOE1_HUMAN DNA polymerase epsilon catalytic subunit A OS=Homo sapiens OX=9606
GN=POLE PE=1 SV=5

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>sp|Q9Y253|POLH_HUMAN DNA polymerase eta OS=Homo sapiens OX=9606 GN=POLH PE=1 SV=1

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>sp|P55265|DSRAD_HUMAN Double-stranded RNA-specific adenosine deaminase OS=Homo sapiens
OX=9606 GN=ADAR PE=1 SV=4

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>sp|Q16236|NF2L2_HUMAN Nuclear factor erythroid 2-related factor 2 OS=Homo sapiens OX=9606
GN=NFE2L2 PE=1 SV=3

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>sp|P19447|ERCC3_HUMAN General transcription and DNA repair factor IIIH helicase subunit
XPB OS=Homo sapiens OX=9606 GN=ERCC3 PE=1 SV=1

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RK

>sp|P18074|ERCC2_HUMAN General transcription and DNA repair factor IIH helicase subunit
XPB OS=Homo sapiens OX=9606 GN=ERCC2 PE=1 SV=1

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>sp|P54274|TERF1_HUMAN Telomeric repeat-binding factor 1 OS=Homo sapiens OX=9606 GN=TERF1
PE=1 SV=3

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>sp|Q9BSI4|TINF2_HUMAN TERF1-interacting nuclear factor 2 OS=Homo sapiens OX=9606
GN=TINF2 PE=1 SV=1

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>sp|Q96AP0|ACD_HUMAN Adrenocortical dysplasia protein homolog OS=Homo sapiens OX=9606 GN=ACD PE=1 SV=3

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PTPM

>sp|Q9UBP0|SPAST_HUMAN Spastin OS=Homo sapiens OX=9606 GN=SPAST PE=1 SV=1

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>sp|P49913|CAMP_HUMAN Cathelicidin antimicrobial peptide OS=Homo sapiens OX=9606 GN=CAMP PE=1 SV=1

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>sp|P22626|ROA2_HUMAN Heterogeneous nuclear ribonucleoproteins A2/B1 OS=Homo sapiens OX=9606 GN=HNRNPA2B1 PE=1 SV=2

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>sp|P15927|RFA2_HUMAN Replication protein A 32 kDa subunit OS=Homo sapiens OX=9606 GN=RPA2 PE=1 SV=1

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>sp|P27694|RFA1_HUMAN Replication protein A 70 kDa DNA-binding subunit OS=Homo sapiens
OX=9606 GN=RPA1 PE=1 SV=2

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>sp|P22392|NDKB_HUMAN Nucleoside diphosphate kinase B OS=Homo sapiens OX=9606 GN=NME2
PE=1 SV=1

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>sp|P15172|MYOD1_HUMAN Myoblast determination protein 1 OS=Homo sapiens OX=9606 GN=MYOD1
PE=1 SV=3

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>sp|P13349|MYF5_HUMAN Myogenic factor 5 OS=Homo sapiens OX=9606 GN=MYF5 PE=2 SV=2

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HHQAGHCLMWACKACKRKSTTMDRRKAATMRERRRLKKVNQAFETLKRCTTTNPNQRLPK
VEILRNAIRYIESLQELLREQVENYYSLPGQSCSEPTSPTSNCSDGMPECNSPVWSRKSS
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ATPGASSSRLIYHVL

>sp|P23409|MYF6_HUMAN Myogenic factor 6 OS=Homo sapiens OX=9606 GN=MYF6 PE=1 SV=1

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HVLAPPGLQPPHCPGQCLIWACKTCKRKSAPTDRRKAATLRERRRLKKINEAFEALKRRT
VANPNQRLPKVEILRSAISYIERLQDLLHRLDQQEKMQELGVDPPFSYRPKQENLEGADFL
RTCSSQWPSVSDHSRGLVITAKEGGASIDSSASSSLRCLSSIVDSISSEERKLPCVEEVV
EK

>sp|P15173|MYOG_HUMAN Myogenin OS=Homo sapiens OX=9606 GN=MYOG PE=1 SV=2
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CPGQCLPWACKVKCRKSVSVDRRAATLREKRRLLKKVNEAFEALKRSTLLNPNQRLPKVE
ILRSIQYIERLQALLSSLNQEERDLRYRGGGGPQGPVSECSSHSASCSPWGSALFES
ANPGDHLLTADPTDAHNLHSLTSIVDSITVEDVSVAFPDETMPN

>sp|O14746|TERT_HUMAN Telomerase reverse transcriptase OS=Homo sapiens OX=9606 GN=TERT
PE=1 SV=1

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VETIFLGSRPWMPGTTPRRLPRLPQRYWQMRPLFLELLGNHAQCPYGVLLKTHCPLRAAVT
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RHNERFLRNTKKFISLGKHAKLSLQELTWKMSVRDCAWLRRSPGVGCVPAAEHRLREEI
LAKFLHWLMSVYVVELLSFFVYTETTFQKNRLFFYRKSVWSKLQSIGIRQHLKRVQLRE
LSEAEVRQHREARPALLTSRLRFIPKPDGLRPVNM DYVVGARTFRREKRAERLTSRVKA
LFSVLNYERARRPGLLGASVLGLDDIHRAWRTFVLRVRAQDPPPELYFVKVDVTGAYDTI
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QETSPLRDAVVIEQSSSLNEASSGLFDVFLRFMCHHAVRIRGKSYVQCQGIPQGSILSTL
LCSLCYGD MENKLFAGIRRDGLLLRLVDDFLLVTPHLTHAKTFLRTLVRGVPEYGCVVNL
RKT VVNFVDEALGGTAFVQMPAHGLFPWCGLLLDTRTLEVQSDYSSYARTSIRASLTF
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KLTRHRVTYVPLGSLRTAQTQLSRKLPGTTLTALEAAANPALPSDFKTILD

>sp|P43489|TNR4_HUMAN Tumor necrosis factor receptor superfamily member 4 OS=Homo sapiens
OX=9606 GN=TNFRSF4 PE=1 SV=1

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NTVCRPCGPGFYNDVSSKPKPCTWCNLRSGSERKQLCTATQDTVCRCRAGTQPLDSYK
PGVDCAPCPPGHFSPGDNQACKPWTNCTLAGKHTLQPASNSSDAICEDRDPPATQPQETQ
GPPARPITVQPTAWPRTSQGPSTRPVEVPGGRAVAAILGLGLVLGGLPLAILLALYLL
RRDQRLPPDAHKKPPGGGSFRTPIQEEQADAHSTLAKI

>sp|P18146|EGR1_HUMAN Early growth response protein 1 OS=Homo sapiens OX=9606 GN=EGR1
PE=1 SV=1

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SASASQSPPLSCAVPSNDSSPIYSAAPTFTPTNTDIFPEPQSQAFIGSAGTALQYPPPAY
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SQDLKALNTSYQSQLIKPSRMRKYPNRPSTPPHERPYACPVESCDRRFSRDELTRHIR
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EIC

>sp|P67809|YBOX1_HUMAN Nuclease-sensitive element-binding protein 1 OS=Homo sapiens
OX=9606 GN=YBX1 PE=1 SV=3
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>sp|Q9NYB0|TE2IP_HUMAN Telomeric repeat-binding factor 2-interacting protein 1 OS=Homo
sapiens OX=9606 GN=TERF2IP PE=1 SV=1
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GAAEPEPQRHAGRIAFDTADDVAITYVKENARSPSSVTGNALWKAMEKSSLTQHSWQSL
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>sp|Q96FI4|NEIL1_HUMAN Endonuclease 8-like 1 OS=Homo sapiens OX=9606 GN=NEIL1 PE=1 SV=3
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SPLPGAQPQQEPLALVFRFGMSGFQLVPREELPRHAHLRFYTAPPGPRLALCFVDIRRF
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EILYRLKIPPFKARSVLEALQQHRPSPELTLSQKIRTKLQNPDLLELCHSVKPEVVQLG
GKGYSSESGEEDFAAFRAWLRCYGMGMSSLQDRHGRTIWFQGDGGLAPKGRKSRKKKS
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>sp|Q969S2|NEIL2_HUMAN Endonuclease 8-like 2 OS=Homo sapiens OX=9606 GN=NEIL2 PE=1 SV=3
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QLSWSSSPVVTPTCDILSEKFHRGQALEALGQAQPVCTLLDQRYFSGLGNI IKNEALYR
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>sp|Q8TAT5|NEIL3_HUMAN Endonuclease 8-like 3 OS=Homo sapiens OX=9606 GN=NEIL3 PE=1 SV=3
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SQNVLSLFNGYVYSGVETLGKELFMYFGPKALRIHFGMKGFIMINPLEYKYKNGASPVLE
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IIPGC

>sp|Q9NS56|TOPRS_HUMAN E3 ubiquitin-protein ligase Topors OS=Homo sapiens OX=9606
GN=TOPORS PE=1 SV=1
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APASSEIMASAAKEFKMDNFSPKAGTSKLQQTVPADASPDSPKCPICLDRFDNVSYLDRCL
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RTTLTRERNASVYSPSPGVNRRTTTPPDSGVLFEGLGISTRPRDVEIPQFMRQIAVRRPT
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DSRSQSRSGHDQKNHRKHGKRMKSKRSRSRESSRPRGRDCKRSRTRDSSWSRRSRTL
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RRRTLSTRAHYSRQSSSPEFRVQSFSERTNARKKNNHSEKYYYYERHRSRSLSSNRSRTA
STGTDRVRNEKPGGKRKYKTRHLEGTNEVAQPSREFASKAKDSHYQKSSSKLDGNYKNES
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ASRSPVVITIDSDSKDSEVKEDTECDNSGPQDPLQNEFLAPSLEPFETKDVVTIEAEFG
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>sp|P46100|ATRX_HUMAN Transcriptional regulator ATRX OS=Homo sapiens OX=9606 GN=ATRX PE=1
SV=5
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KEEGTSSESKSSSGSSRSKRKPSIVTKYVESDDEKPLDDETVDNEDASNENSENDITMQS
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FQKDSIYRHPSLQVLICKNCFKYMSDDISRSDGMDEQCRWCAEGGNLICCFCHNAFC
KKCILRNLGRKELSTIMDENNQWYCYICHPEPLLDLTACNSVFENLEQLLQQNKKKIKV
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SLSSDDYTKKKKKGKKGKDDSSSSGSGSDNDVEVIKVWNSRSRGGGEGNVDETGNPNPVS
LKLEESKATSSSNPSPAPDWYKDFVTDADAEVLEHSGKMVLLFEILRMAEEIGDKVLVF
SQSLISLDLIEDFLELASREKTEDKDKPLIYKGEKWLNRNIDYYRLDGSTTAQSRKKWAE
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>sp|Q9Y6K1|DNM3A_HUMAN DNA (cytosine-5)-methyltransferase 3A OS=Homo sapiens OX=9606
GN=DNMT3A PE=1 SV=4

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DAKEVSAHRARYFWGNLPGMNRPLASTVNDKLELQECLEHGRIAKFSKVRTITTRSNSI
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LFAPLKEYFACV

>sp|Q9UBC3|DNM3B_HUMAN DNA (cytosine-5)-methyltransferase 3B OS=Homo sapiens OX=9606
GN=DNMT3B PE=1 SV=1

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RKGLYEGTGRLFFEFYHLLNYSRPKEGDDRPFFWMFENVVAMKVGDKRDISRFLCNPVM
IDAIKVSAAHRARYFWGNLPGMNRPIASKNDKLELQDCLEYNRIAKLKKVQTITTKSNS
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HLFAPLKDYFACE

>sp|P26358|DNMT1_HUMAN DNA (cytosine-5)-methyltransferase 1 OS=Homo sapiens OX=9606
GN=DNMT1 PE=1 SV=2

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>sp|Q06787|FMR1_HUMAN Synaptic functional regulator FMR1 OS=Homo sapiens OX=9606 GN=FMR1
PE=1 SV=1

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>sp|014672|ADA10_HUMAN Disintegrin and metalloproteinase domain-containing protein 10
OS=Homo sapiens OX=9606 GN=ADAM10 PE=1 SV=1

MVLLRVLILLLSWAAGMGQYGNPLNKYIRHYEGLSYNVDSLHQKHQRAKRAVSHEDQFL
RLDFHAHGRHFNLRMKRDTSLFSDEFKVETSNKVLDYDTSHIYTGHIYGEESFSHGSI
DGRFEGFIQTRGGTFYVEPAERYIKDRTLPHFSVIYHEDDINYPHYGPQGGCADHSVFE
RMRKYQMTGVEEVTQIPQEEHAANGPELLRKKRTTSAEKNTCQLYIQTDLFFKYGTRE
AVIAQISSHVKAIDTIYQTTDFSGIRNISFMVKRIRINTTADEKDPTNPFNIGVEKF
LELNSEQNHDYCLAYVFTDRDFFDGLVGLAWVGAPSGSSGGICEKSKLYSDGKKKSLNT
GIITVQNYGSHVPPKVSHITFAHEVGHNFSGPHDSGTECTPGESKNLGQKENGNYIMYAR
ATSGDKLNNNFSLCSIRNISQVLEKKRNCFVESGQPICGNGMVEQGEECDGYSQCK
DECCFDANQPEGRKCKLKPGKQCSQGPCCTAQCAFKSKSEKCRDDSDCAREGICNGFT
ALCPASDPKPNFTDCNRHTQVCINGQCAGSICEKYGLEECTASSDGKDDKELCHVCCMK
KMDPSTCASTGSGVQSRHFSGRITITLQPGSPCNDFRGYCDVFMRCRLVDADGPLARLKA
IFSPELYENIAEWIVAHWWAVLLMGIALIMLMAGFIKICSVHTPSSNPKLPPPKPLPGTL

KRRRPPQPIQQPQRQRPRESYQMGHMRR

>tr|AOA024QZ77|AOA024QZ77_HUMAN EF-hand domain family, member D2, isoform CRA_a OS=Homo sapiens OX=9606 GN=EFHD2 PE=2 SV=1

MATDELATKLSRRLQMEGEGGETPEQPGLNGAAAAAAGAPDEAAEALGSADCELSAKLL
RRADLNQGIGEPQSPSRRVFNPYTEFKEFSRKQIKDMEKMFQYDAGRDFIDLMELKLM
MEKLGAPQTHLGLKNMIKEVDEDFDSKLSFRELLIFRKAAGELQEDSGLCVLARLSEI
DVSSEGVKGAKSFFEAKVQAINVSSRFEEEIKAEQEERKKQAEEMKQRKA AFKELQSTFK

>sp|Q07955|SRSF1_HUMAN Serine/arginine-rich splicing factor 1 OS=Homo sapiens OX=9606 GN=SRSF1 PE=1 SV=2

MSGGGVIRGPAGNDCRIYVGNLPPDIRTKDIEDVIFYKYGAIRDIDLKNRRGGPPFAFVE
FEDPRDAEDAVYGRDGYDYG YRLRVEFPRSGRGTGRGGGGGGGGGAPRGYGPSSRRSE
NRVVVSGLPSPSGSWQLKDHMREAGDVCYADVYRDGTGVVEFVRKEDMTYAVRKL DNTKF
RSHEGETAYIRVKVDGPRSPSYGRSRSRSRSRSRSRSRSRSRSRSPRRSRGSPRYSR
HSRSRSRT

>sp|P26368|U2AF2_HUMAN Splicing factor U2AF 65 kDa subunit OS=Homo sapiens OX=9606 GN=U2AF2 PE=1 SV=4

MSDFDEFERQLNENKQERDKENRHRKRSHSRSRSDRKRKRSRSDRRNRDQRSASDRRRR
RSKPLTRGAKEEHGGLIRSPRHEKKKKVRKYWDVPPPGFEHITPMQYKAMQAAGQIPATA
LLPTMTPDGLAVTPTVPVVGSMTRQARRLYVGNIPFGITEAMMDFFNAQMRLGGLTQ
APGNPVLAVQINQDNFAFLEFRSVDETTQAMAFDGIIFQGQSLKIRRP HDYQPLPGMSE
NPSVYVPGVVSTVVPDSAHKLFIGGLPNYLNDQVKELLTSFGPLKAFNLVKDSATGLSK
GYAFCEYVDINVDQAIAGLNGMQLGDKLLVQRASVGAKNATLVSP PSTINQTPVTLQV
PGLMSSQVQMGGHPTEVLCLMNMVLP EELL DDEEYEEIVEDVRDECSKYGLVKSIEIPRP
VDGVEVPGCGKIFVEFTSVFDCQKAMQGLTGRKFANRVVVTKYCDPSYHRRDFW

>sp|Q8NC60|NOA1_HUMAN Nitric oxide-associated protein 1 OS=Homo sapiens OX=9606 GN=NOA1 PE=1 SV=2

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GFGEGGDMQERFLFPEYILDPEPQPTREKQLQELQQQQEEEEERQRRRREERRQQNLRAR
SREHPVVGHPDPALPPSGVNCSGCGAELHCQDAGVPGYLPREKFLRTAEADGGLARTVCQ
RCWLLSHHRRALRLQVSREQYLELVSAALRRPGPSLVLYMVDLLDLPDALLPDLPALVGP
KQLIVLGNKVDLLPQDAPGYRQRLRERLWEDCARAGLLLAPGHQGPQRPVKDEPQDGENP
NPPNWSRTVVRDVRILSAKTGYGVEELISALQRSWRYRGDVYLVGATNAGKSTLFNTLLE
SDYCTAKGSEAIDRATISPWP GTTLNLLKFPICNPTPYRMFKRHQRLKKDSTQAEEDLSE
QEQNQLNVLKKHGYVVG RVGRFTLYSEEQKDNI PFEDADSLAFDMENDPVMGTHKSTKQ
VELTAQDVKDAHWFYDTPGITKENCILNLLTEKEVNIVLPTQSIVPRTFVLKPGMVLFLG
AIGRIDFLQGNQSAWFTVVASNILPVHITS LDRADALYQKHAGHTLLQIPMGGKERMAGF
PPLVAEDIMLKEGLGASEAVADIKFSSAGWVSVTPNFKDRLHLRGYTPEGTVLTVRPPLL
PYIVNIKGQRIKKS VAYKTKKPPSLMYNVRKKKGKINV

>sp|P52597|HNRPF_HUMAN Heterogeneous nuclear ribonucleoprotein F OS=Homo sapiens OX=9606
GN=HNRNPF PE=1 SV=3

MLLGPEGGEGFVVKLRGLPWSCSVEDVQNFLSDCTIHDGAAGVHFIYTREGRQSGEAFVE
LGSEDDVKMALKKDRESMGHRYIEVFKSHRTEMDWVLKHSGPNSADSANDGFVRLRGLPF
GCTKEEIVQFFSGLEIVPNGITLPVDPEGKITGEAFVQFASQELAEKALGKHKERIGHRY
IEVFKSSQEEVRSYSDPPLKFMSVQRPGPYDRPGTARRYIGIVKQAGLERMRPGAYSTGY
GGYEEYSGLSDGYGFTTDLFGRDLSYCLSGMYDHRYGDSEFTVQSTTGHCVHMRGLPYKA
TENDIYNFFSPLNPVRVHIEIGPDGRVTGEADVEFATHEEAVAAMSKDRANMQHRYIELF
LNSTTGASNGAYSSQVMQGMGVSAQAATYSGLESQSVSGCYGAGYSGQNSMGGYD

>tr|Q6IB29|Q6IB29_HUMAN EBNA1 binding protein 2 OS=Homo sapiens OX=9606 GN=EBNA1BP2 PE=1
SV=1

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KRDLEWVERLDVTLGPVPEIGGSEAPAPQNKDQKAVDPEDDFQREMSFYRQAQAAVLAVL
PRLHLQKVPTKRPTDYFAEMAKSDLQMQRKIRKQLQTKQAAMERSEKAKQLRALRKYGKKV
QTEVLQKRQKEKAHMMAIKKYQKGFSDKLDLFEGDQKPLAQRKKAGAKGQQMRKGPSAK
RRYKNQKFGFGGKKKGSKWNTRESYDDVSSFRAKTAHGRGLKRPKGKGSNKRPGKRTREK
MKNRTH

>sp|P51991|ROA3_HUMAN Heterogeneous nuclear ribonucleoprotein A3 OS=Homo sapiens OX=9606
GN=HNRNPA3 PE=1 SV=2

MEVKPPPGRPQPDSESGRRRRRGEEGHDPKEPEQLRKLFIGGLSFETDDSLREHFEKWGT
LTDCVVMRDPQTKRSRGFGFVTYSCVEEVDAAAMCARPHKVDGRVVEPKRAVSREDSVKPG
AHLTVKKIFVGGIKEDTEEYNLRDYFEKYGKIETIEVMEDRQSGKKRGFAFVTDDHDTV
DKIVVQKYHTINGHNCVKKALSKQEMQSAGSQRGRGGGSGNFMGRGGNFGGGGNGFRG
GNFGGRGGYGGGGGSRGSYGGGDGGYNGFGGDGGNYGGGPGYSSRGGYGGGGPGYGNQG
GGYGGGGGYDGYNEGGNFGGGNYGGGNYNDFGNYSQQQSNYGPMMKGSFGGRSSGSPY
GGGYGSGGSGGYGSRRF

>sp|P23246|SFPQ_HUMAN Splicing factor, proline- and glutamine-rich OS=Homo sapiens
OX=9606 GN=SFPQ PE=1 SV=2

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PPPPPHQQQQPPPPQPPPPQPPPHQPPPHQPHQQQQPPPPQDSSKPVVAQGPAPG
VGSAPPASSAPPATPTSGAPPGSGPGTPTPPPAVTSAPPGAPPPTPPSSGVPTTPPQ
AGGPPPPAAVPGPGPGPKQGPGGPKGGKMPGGPKPGGGPGLSTPGGHPKPPHRGGGE
PRGGRQHHPYHQHHQGPPPGGPGGRSEEKISDSEGFKANLSLLRRPGKTYTQRCRLF
VGNLPADITEDEFKRLFAKYGEPEGVFINKGKGFGFIKLESRALAEIAKAELDDTPMRGR
QLRVRFATHAAALSVRNLSPYVSNELLEAFSQFGPIERAVVIVDDRGRSTGKGIVEFAS
KPAARKAFERCSEGVFLTTTTPRPVIIVEPLEQLDDEDGLPEKLAQKNPMYQKERETPPRF
AQHGTFEYEYSQRWKSLEMEKQQRQVEKNMKDAKDKLESEMEDAYHEHQANLLRQDLM
RRQEELRRMEELHNQEMQKRKEMQLRQEEERRRREEEMMIQREMEEQMRRQREESYSRM
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DMRTERFGQGAGPVGGQGPGRMGPGTPAGYGRGREEYEGPNKKPRF

>sp|Q15393|SF3B3_HUMAN Splicing factor 3B subunit 3 OS=Homo sapiens OX=9606 GN=SF3B3 PE=1 SV=4

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VIRSLMAFRLTGGTKDYIVVGSDSGRIVILEYQPSKNMFEKIHQETFGKSGCRRIVPGQF
LAVDPKGRAVMISAIEKQKLVYILNRDAAARLTISSPLEAHKANTLVYHVGVVDVGFENP
MFACLEMDYEEADNDPTGEAAANTQQTLTFYELDLGLNHVVRKYSEPLEEHGNFLITVPG
GSDGPSGVLICSENYITYKNFGDQPDIRCPIPRRRNDLDDPERGMIFVCSATHKTKSMFF
FLAQTEQGDIFKITLETDEDMVTEIRLKYFDTPVAAAAMCVLKTGFLFVASEFGNHLYLQ
IAHLGDDDEEPEFSSAMPLEEGDTFFFQPRPLKNLVLDELDSLSPILFCQIADLANEDT
PQLYVACGRGPRSSRLVLRHGLEVSEMAVSELPGNPNAVWTVRRHIEDEFDAYIIIVSFVN
ATLVLSIGETVEEVTDSGFLGTTPTLSCSLLGDDALVQVYPDGIRHIRADKRVNEWKTPG
KKTIVKCAVNQRQVVIALTGGLVYFEMDPSGQLNEYTERKEMSADVVCMSLANVPPGEQ
RSRFLAVGLVDNTVRIISLDPSDCLQPLSMQALPAQPESLCIVEMGGTEKQDELGERGSI
GFLYLNIGLQNGVLLRVTLDPTGDLSDTRTRYLGSRPVKLFRVRMQQEAVLAMSSRSW
LSYSYQSRFHLTPLSYETLEFASGFASEQCPEGIVAISTNTRLILALEKLGAVFNQVAFP
LQYTPRKFVIHPESNNLIIETDHNAYTEATKAQRKQMAEEMVEAAGEDERELAAEMAA
AFLNENLPESIFGAPKAGNGQWASVIRVMNPIQGNTLDLVQLEQNEAAFSVAVCRFSNTG
EDWYVLVGVAKDLILNPRSVAGGFVYTYKLVNNGEKLEFLHKTPVEEVPAAIAPFQGRVL
IGVGKLLRVYDLGKKLLRKCNKHIANYSISGIQTIGHRVIVSDVQESFIWVRYKRNNQ
LIIFADDTYPRWTTASLLDYDTVAGADKFGNICVVRLPPNTNDEVEDPTGNKALWDRG
LLNGASQKAEVIMNYHVGETVLSLQKTTLIPGGSESLVYTTLSSGIGILVPFTSHEDHDF
FQHVEMHLRSEHPPLCGRDHLSFRSYFFPVKNVIDGDLCEQFNSMEPNKQKNVSEELDRT
PPEVSKKLEDIRTRYAF

>sp|Q15717|ELAV1_HUMAN ELAV-like protein 1 OS=Homo sapiens OX=9606 GN=ELAVL1 PE=1 SV=2

MSGYEDHMAEDCRGDIGRTNLIVNYLPQNMQTDELRSLFSSIGEVEAKLIRDKVAGHS
LGYGFVNYVTAKDAERAINTLNGRLQSKTIKVSYPSPSEVIKDANLYISGLPRTMTQK
DVEDMFSRFGRIINSRVLDVDTGLSRGVAFIRFDKRSEAEAAITSFNGHKPPGSSEPIT
VKFAANPNQKNVALLSQLYHSPARRFGGPVHHQAQRFRFSPMGVDHMSGLSGVNVPNGA
SSGWCIFIYNLGQDADEGILWQMGFPFGAVTNVKVIRDFNTNKCKGFGFVTMTNYEEAAM
ATASLNGYRLGDKILQVSFKTNKSHK

>sp|Q12906|ILF3_HUMAN Interleukin enhancer-binding factor 3 OS=Homo sapiens OX=9606 GN=ILF3 PE=1 SV=3

MRPMRIFVNDDRHVMKHSVYPTQEELEAVQNMVSHTERALKAVSDWIDEQEKGSSEQA
ESDNMDVPPEDDSKEGAGEQKTEHMTRTLRLGVMRVGLVAKGLLLKGDLDLELVLLCKEKP
TTALLDKVADNLAIQLAAVTEDEKYEILQSVDDAAIVIKNTKEPPLSLTIHLTSPVREEM
EKVLAGE TLSVNDPPDVLDRQKCLAAASLRHAKWFQARANGLKSCVIVIRVLRDLCTRV
PTWGPLRGWPLELLCEKSIGTANRPMGAGEALRRVLECLASGIVMPDGSIGYDPCEKEAT
DAIGHLDQRQREDITQSAQHALRLAAFGQLHKVLGMDPLPSKMPKKPKNENPVDYTVQIP
PSTTYAITPMKRPMEEDGEEKSPSKKKKKIQKKEEKAEPQAMNALMRLNQLKPGQLQYKL
VSQTGPVHAPIFTMSVEVDGNSFEASGPSKKTAKLHVAVKVLQDMGLPTGAEGRDSSKGE
DSAEETEAKPAVVAPAPVVEAVSTPSAAFPSDATAEQGPILTKHGKNPVMELNEKRRGLK
YELISETGGSHDKRFVMEVEVDGQKFGAGSNKKVAKAYAALAALEKLPDTPALDANK

MAAGAGTAGPASGPGVVRDPAASQPRKRPREGGEGARRSDTMAGGGSSDGSGRAAGR
ASRSSGRARRGRHEPGLGGPAERGAGEARLEEAVNRWWLKFYFHEALRAFRGSRYGDFRQ
IRDIMQALLVRPLGKEHTVSRLLRVMQCLSRIEEENLDCSFDMEAELTPLESAINVLEM
IKTEFTLTEAVVSSRKLVEAAVVICIKNEFEKASKILKKHMSKDPTTQKLRNDLLNI
IREKNLAHPV IQNFSYETFQQKMLRFLESHLDDAEPYLLTMAKKALKSESAASSTGKEDK
QPAPGPVEKPPPREPARQLRNPPTTIGMMTLKAAFKTLGAQDSEAAFAKLDQKDLVLPTQ
ALPASPALKNKRPRKDENESEAPADGEGGSELQPKNKRMTISRLVLEEDSQSTEPSAGLN
SSQEAAASAPPSKPTVLNQPLPGEKNPKVPKGKWNSSNGVEEKETWVEEDELQVQVAAAPDE
DSTNITKKQKWTVEESEWVKAGVQKYEGENWAAISKNYPFVNRTAVMIKDRWRMTMKRLG
MN

>sp|P14866|HNRPL_HUMAN Heterogeneous nuclear ribonucleoprotein L OS=Homo sapiens OX=9606
GN=HNRNPL PE=1 SV=2

MSRRLLPRAEKRRRRLEQRQQPDEQRRRSGAMVKMAAAGGGGGGGRYYGGGSEGGRAPKR
LKTDNAGDQHGGGGGGGAGAAGGGGGGENYDDPHKTPASPVVHIRGLIDGVVEADLVE
ALQEFGPISYVVVMPKKRQALVEFEDVLGACNAVNYAADNQIYIAGHPAFVNYSTSQKIS
RPGDSDDSRSVNSVLLFTILNPIYSITTDVLYTICNPCGPVQRIVIFRKNQVQAMVEFDS
VQSAQRAKASLNGADIYSGCCTLKIEYAKPTRLNVFKNDQDTWDYTNPNSGQGDPGSNP
NKRQRQPPLLGDHPAEYGGPHGGYHSHYHDEGYGPPPPHYEGRRMGPPVGGHRRGPSRYG
PQYGHPPPPPPPEYGPHADSPVLMVYGLDQSKMNCDRVFNVFCLYGNVEKVKFMKSKPG
AAMVEMADGYAVDRAITHLNNFMFGQKLNVCVSKQPAIMPGQSYGLEDGSCSYKDFSES
RNNRFSTPEQAAKNRIQHPSNVLHFFNAPLEVTEENFFEICDELGVKRPSSVKVFSGKSE
RSSSGLLEWESKSDALETGLFLNHQMKNPNGPYPTLKLCFSTAQHAS

>sp|Q15424|SAFB1_HUMAN Scaffold attachment factor B1 OS=Homo sapiens OX=9606 GN=SAFB PE=1
SV=4

MAETLSGLGDSGAAGAAALSSASSETGTRRLSDLRVIDLRAELRKRNVDSGNKSVLMER
LKKAIEDEGGNPDEIEITSEGNKTKSRSSKGRKPEEEGVEDNGLEENSGDQGEDVETSL
ENLQDIDIMDISVLDEAEIDNGSVADCVEDDDADNLQESLSDSRELVEGEMKELPEQLQE
HAIEDKETINNLDTSSSDFTILQEIEEPSLEPENEKILDILGETCKSEPVKESSELEQP
FAQDTSSVGPDRKLAEEEDLFDSAHPEEGDLDASESTAHQSSKADSLAVVKREPAEQ
PGDGERTDCEPVGLEPAVEQSSAASELAEASSEELAEAPTEAPSPPEARSKEDGRKFDFD
ACNEVPPAPKESSTSEGADQKMSSPEDDSDTKRLSKEEKGRSSCGRNFVWVSGLSSTTRAT
DLKNLFSKYGKVVGAKVVTNARSPGARYGFTMTAAEATKINHLHKTTELHGKMISVE
KAKNEPVGKKTSDKRDSGKKEKSSNSDRSTNLKRDDKCDRKDDAKKGDDGSGEKSQDQD
DQKPGPSERSRATKSGSRGTERTVMDKSKGVPVISVKTSGSKERASKSQDRKSASREKR
SVVSFDKVKEPRKSRDSESHSRVRERSEREQRMQAQWEREERERLEIARERLAFQRQRLE
RERMERERLERERMHVEHERRREQERIHREEREELRRQQELRYEQERRPAVRRPYDLDRRD
DAYWPEAKRAALDERYHSDFNQRDFHDFHHRDRGRYPDHSVDRREGSRSMGREGQHY
PERHGGPERHGRDSRDGWWGYGSDKRMSEGRGLPPPPRRDWGDHGRREDDRSWQGTADGG
MMDRDHKKRWQGGERSMSGHSGPHMMNRGGMGRGSFAPGGASRGHPIPHGGMQGGFGGQ
SRGSRPSDARFTRRY

>sp|Q9NZI8|IF2B1_HUMAN Insulin-like growth factor 2 mRNA-binding protein 1 OS=Homo sapiens
OX=9606 GN=IGF2BP1 PE=1 SV=2

MNKLYIGNLNESTPADLEKVF AEHKISYSGQFLVKSGYAFVDCPDEHWAMKAIETFSGK
VELQGKRLEIEHSVPKKQRSRKIQIRNIPPQLRWEVLDSLLAQYGTVENCEQVNTESETA
VVNVTYSNREQTRQAIMKLNQHLENHALKVSYPDEQIAQGPENGRGGFGSRGQPRQG
SPVAAGAPAKQQQVDIPLRLLVPTQYVGAIIGKEGATIRNITKQTQSKIDVHRKENAGAA
EKAISVHSTPEGCSSACKMILEIMHKEAKDTKTADEVPLKILAHNNFVGRLIGKEGRNLK
KVEQDTETKITISSLQDLTYLNPERTITVKGAIENCCRAEQEIMKKVREAYENDVAAMSL
QSHLIPGLNLAAGLFPASSAVPPPPSSVTGAAPYSSFMQAPEQEMVQVFIPAQAVGAI
IGKKGQHIKQLSRFASASIKIAPPETPDSKVRMVIITGPPEAQFKAQGRIYGLKEENFF
GPKEEVKLETHIRVPASAAGRVIGKGGKTVNELQNLTAAEVVVPRDQTPDENDQVIVKII
GHFYASQMAQRKIRDILAQVKQHQKQGSNQAQARRK

>sp|Q14151|SAFB2_HUMAN Scaffold attachment factor B2 OS=Homo sapiens OX=9606 GN=SAFB2 PE=1 SV=1

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KKAVKEEGQDPDEIGIELEATSKKSAKRCVKGLKMEEEGTEDNGLEDDSRDQGQEDMEASL
ENLQNMGMMDMSVLDETEVANSSAPDFGEDGTGLLDSFCDSKEYVAAQLRQLPAQPPEH
AVDGEFGKNTLETSSLNFKVTPDIEESLLEPENEEKILDILGETCKSEPVKESSELEQPF
AQDTSSVGPDRKLAEEEDLFDSEAHPEEGDLDAESTAHQSSKADSLAVVKREPAEQP
GDGERTDCEPVGLEPAVEQSSAASELAEASSEELAEAPTEAPSPPEARDSKEDGRKFDFA
CNEVPPAPKESSTSEGADQKMSSFKEEKDIKPIIKDEKGRVGSGRNLWVSGLSSTTRA
TDLKNLFSKYGKVVGAQVVTNARSPGARYGFVTMSTSEATKCIISHLHRTLHGRMISV
EKAKNEPAGKKLSDRKECEVKKELSSVDRHHSVEIKIEKTVIKKEEKIEKKEKKPEDI
KKEEKDQDELKPGPTNRSRVTKSGSRGMERTVMDKSKGEPVISVKTTSRSKERSSSKSQD
RKSESKEKRDILSFDKIKEQRERERQREREREIRETERRREREQREREQRLEAFHERKEK
ARLQRERLQLECRQRRLERERMERERLERERMVERERRKEQERIHREEREELRRQEQRLR
YEQERRPGRRPYDLRRDDAYWPEGKRVAMEDRYRADFPRPDHRFHDFDHRDRGQYQDHA
IDRREGSRPMMGDHRDGQHYGDDRHGHGGPPERHGRDSRDGWGGYGSCKRLSEGRGLPPP
PRGGRDWGEHNQRLLEHQARAWQGAMDAGAASREHARWQGGERGLSGPSGPGHMASRGGV
AGRGGFAQGGHSQGHVVPGGGLEGGGVASQDRGSRVPHPHPPPPYPHFTRY

>sp|Q43143|DHX15_HUMAN Pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15 OS=Homo sapiens OX=9606 GN=DHX15 PE=1 SV=2

MSKRHRDLGEDYPSGKKRAGTDGKDRDRDRDREDSKDRDRERDRGDREREREKEKEKE
LRASTNAMLISAGLPPLKASHSAHSTHSAHSTHSAHSTHAGHAGHTSLPQCINPFTN
LPHTPRYYDILKKRLQLPVWEYKDRFTDILVRHQSFVLVGETGSGKTTQIPQWCVEYMRS
LPGPKRGVACTQPRRVAAMSVAQRVADEMDVMLGQEVGYISRFEDCSSAKTILKYMTDGM
LLREAMNDPLLERYGVIILDEAHERTLATDILMGVLKEVVQRSDLKVIVMSATLDAGKF
QIYFDNCPLLTIPGRTHPVEIFYTPEPERDYLEAAIRTVIQIHMCEEEEGDLLLFLTQGE
EIDEACKRIKREVDDLGPVEVDIKIIPLYSTLPPQQQRIFEPPPPKKQNGAIGRKVVVS
TNIAETSLTIDGVVFVIDPGFAKQKVYNPRIRVESLLVTAISKASAQQRAGRAGRTRPGK
CFRLYTEKAYKTEMQDNTYPEILRSNLGSSVVLQKKLGIDDLVHFDMDPPAPETLMRAL
ELLNYLAALNDDGDLTELGSMMAEFPLDPQLAKMVIASCDYNSNEVLSITAMLSVPQCF
VRPTEAKKADEAKMRFAHIDGDHLTLLNVYHAFKQNHESVQWCYDNFINYRSLMSADNV
RQQLSRIMDRFNLPRRSTDFTSRDYYINIRKALVTGYFMQVAHLERTGHYLTVDKNQVVQ
LHPSTVLDHKPEWVLYNEFVLTTKNYIRTCTDIKPEWLVKIAPQYYDMSNFPQCEAKRQL
DRIIAKLQSKEYSQY

>sp|Q12905|ILF2_HUMAN Interleukin enhancer-binding factor 2 OS=Homo sapiens OX=9606 GN=ILF2 PE=1 SV=2

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NQDLAPNSAEQASILSLVTKINNVIDNLIVAPGTFEVQIEEVQVGSYKKGTMTTGHNVA
DLVVILKILPTLEAVALGNKVVESLRAQDPSEVLMTLTNETGFEISSDATVKILITTV
PPNLRKLDPELHLDIKVLQSALAAIRHARWFEENASQSTVKVLRLLKDLRIRFPGFEP
TPWILDLLGHYAVMNNPTRQPLALNVAYRRCLQILAAGLFLPGSVGITDPCESGNFRVHT

VMTLEQQDMVCYTAQTLVRILSHGGFRKILGQEGDASYLASEISTWDGVIVTPSEKAYEK
PPEKKEGEEEEENTEPPQGEEESMETQE

>sp|Q7L2E3|DHX30_HUMAN Putative ATP-dependent RNA helicase DHX30 OS=Homo sapiens OX=9606
GN=DHX30 PE=1 SV=1

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IGRALGISHAQKDLVYVHTNGPKKKVTLHIKWPKSVEVEGYGSKKIDAERQAAAAACQL
FKGWGLLGPRNELFDAKYRVLADRFGPSADSWWRPEPTMPPTSWRQLNPESIRPGGPGG
LSRSLGEEEEEEEELEEGTIDVTDFLSMTQQDSHAPLRDSRGSSFEMTDDDSAIRALT
QFPLPKNLLAKVIQIATSSSTAKNLMQFHTVGTGKTKLSTLTLLWPCPMTFVAKGRRKAEA
ENKAAALACKKLKSLGLVDRNNEPLTHAMYNLASLRELGETQRRPCTIQVPEPILRKIET
FLNHYPVESSWIAPELRLQSDILPLGKDSGPLSDPITGKPYVPLLEAEVRLSQSLEL
WRRRGPVWQEAPQLPVDPHRDTILNAIEQHPVVVISGDTGCGKTTRIPQLLLERYVTEGR
GARCNIITQPRRISAVSVAQRVSHELGPSLRNVGFQVRLESKPPSRGGALLFCTVGIL
LRKLQSNPSLEGVSHVIVDEVHERDVNTDFLLILLKGLQRLNPALRLVLMSATGDNERFS
RYFGGCPVIKVPGFMYPVKEHYLEDILAKLGKHQYLHRHRHHESEDECALDLDLVDLVL
HIDARGEPPGILCFLPGWQEIKGVQQRLQEALGMHESKYLILPVHSNIPMMDQKAIFQQP
PVGVRKIVLATNIAETSITINDIVHVDSGLHKEERYDLTKVSCLETVWVSRANVIQRR
GRAGRCQSGFAYHLFPRSRLEKMVPFQVPEILRTPLENLVLQAKIHMPEKTAVEFLSKAV
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>sp|P61978|HNRPK_HUMAN Heterogeneous nuclear ribonucleoprotein K OS=Homo sapiens OX=9606
GN=HNRNPK PE=1 SV=1

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>sp|Q9NR30|DDX21_HUMAN Nucleolar RNA helicase 2 OS=Homo sapiens OX=9606 GN=DDX21 PE=1
SV=5

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>sp|Q13148|TADBP_HUMAN TAR DNA-binding protein 43 OS=Homo sapiens OX=9606 GN=TARDBP PE=1
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