

# Supplementary Information

**Supplementary Information S1.** The positive dataset  $S_{\text{Hyp}}^+$  and negative dataset  $S_{\text{Hyp}}^-$  contain 636 hydroxyproline peptide fragments and 2699 non-hydroxyproline peptide fragments, respectively. None of the sequences included has  $\geq 80\%$  pairwise sequence identity with any other in a same subset. See the text of the paper for further explanation.

## Positive dataset

UniProt ID	Site	Sequence
P08427	63	PGPMGP <b>P</b> GGMPGL
P02457	848	AGZVGA <b>P</b> GPKGAR
P02457	245	QGARGL <b>P</b> GTAGLP
Q93WP8	151	RKPLSP <b>P</b> SPKPAD
Q7M1I4	8	HYSYSS <b>P</b> PPPPVV
Q15848	76	DPGLIG <b>P</b> KGDIGE
P02457	464	RGARGE <b>P</b> GPAGLP
P02457	572	AGVMGF <b>P</b> GPKGAA
Q9BPB2	54	CPDYTD <b>P</b> CSHAHE
Q05707	1520	QGMPGM <b>P</b> GEEKGEK
P05997	919	SAGRVG <b>P</b> PGPAGA
P30754	429	PGKNGA <b>P</b> GEPGAH
P30754	416	LQGRAG <b>P</b> PGARGE
P84698	21	ECCKGY <b>P</b> CVNKAC
Q24940	196	ETESSY <b>P</b> YTAVEG
P02457	332	TGPAGP <b>P</b> GFPGAA
P01523	57	RDCCTP <b>P</b> KKCKDR
P30754	285	KGSSGP <b>P</b> GDVGAP
B4YSU8	51	GDSCNE <b>P</b> AGELCC
P58782	13	PNAACH <b>P</b> CGCKVG
P23805	96	NGFVGE <b>P</b> GPKGDT
P02820	60	DHWLGA <b>P</b> APYPDP
P0C8S5	28	LPPNLR <b>P</b> KFKE@@
P02457	692	RGANGA <b>P</b> GNDGAK
P85154	503	PGEFGL <b>P</b> GPAQPR
P50982	46	LTARRD <b>P</b> CCYHPT
P30754	984	RGSQGP <b>P</b> GKDGQP
P81755	63	WCCTAA <b>P</b> LTGR@@
P02457	197	QGPPGE <b>P</b> GEPGAS
P0C1X1	70	CTYSCP <b>P</b> KRKPGR
Q9LYF6	29	QSEAPA <b>P</b> SPTSGS
Q9ZT16	34	PTATPP <b>P</b> ATPPPV
Q24940	109	ANNRAV <b>P</b> DKIDWR
Q25460	89	PTYKPK <b>P</b> SYPTY
P15502	360	VPGAGI <b>P</b> GAAVPG
Q05707	1735	PGPPGS <b>P</b> GPRGPP
P30754	381	PGSDGR <b>P</b> GKDGRP
P02457	962	RGERGF <b>P</b> GLPGPS
P30754	966	SGPPGA <b>P</b> GPRGAR
Q7XAD0	55	RTPYKT <b>P</b> PPPTSS
P01522	55	PGSSCS <b>P</b> TSYNCC
P0C1X1	69	MCTYSC <b>P</b> PKRKPG
P0CG45	15	KKHCPA <b>P</b> ACKYKP
P01522	66	CCRSCN <b>P</b> YTKRCY
Q16665	564	DLEMLA <b>P</b> YIPMDD
P02457	998	PGLAGP <b>P</b> GEGARE
P30754	603	RGENGL <b>P</b> GPSGLA
P56633	49	STRCRI <b>P</b> NQKCFQ

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P0C1W5	70	LNRVCGPMCCPAS
P15502	427	PGVGGVPGVGGVP
P0C2W8	323	TGLPGPPGERGGP
Q05707	1704	KGEKGNPGVGTQG
P30754	339	SGAMGI PGEKGPS
P0CG45	21	PACKYKPCCKS@@
P02745	73	KGDQGE PGPSGNP
P85065	14	TPGCTS PGGGSNC
P85009	6	@GCCSDPRCKHQC
P82439	6	@NYQYSPPPPKK
P30754	816	KGDGGP PGPSGDR
P30754	128	GPGPAGPSGPIGP
P0C349	18	SSRECRPQHCC@@
P23805	171	PGETGAPGRAGVT
P0CH20	5	@@YGNFPTCSETG
Q05707	1662	PGEPRPGSPGAP
Q7XAD0	82	VLPPPSPKTDPII
Q93WP8	49	PSPASSPSKEVS
P85154	902	HGNRGE PGPAHSV
Q6PSU2	67	GRDPYS PSQDPYS
P07550	395	GHQGTVPSDNIDS
Q05707	1580	PGTPGVPGITGSM
P02457	497	AGPKGP PGERGSP
Q05707	1756	QGSPGQPGYCDPS
P02457	971	PGPSGE PGKQGPS
P02457	1178	PGPPGP PGPPSGG
Q05707	1656	RTVQGP PGEPRP
P15502	190	GAFAGI PGVGPFG
Q7M1I4	20	VSSPPPYYYYSP
P0C1N5	55	AVRDCCPLPACPF
Q05707	1538	PGPQGI PGGVGSP
P02457	704	KGDAGA PGAPGNE
Q4ZJN1	64	PGHPGG PGKDGR
P08252	69	CPGGPTPTPPTPP
P08427	57	KGDGPP PGPMGPP
C3VVN6	55	ECQVDT PGSSWGK
P29602	133	PPPVMP PPSPS@@
P58925	67	RSRQCKPHRCCGR
Q9M0S4	32	PAPTRS PLPSPAQ
P58913	57	KEACYA PGTF CGI
P30754	708	QGEIGL PGSPGQP
P02745	39	KGEAGR PGRGRP
P58923	10	GRDSRC PPVCCMG
P01523	67	KDRQCK PQRCCAG
P02457	440	TGAKGE PGPAQVQ
P30754	216	AGENGH PGMPGMD
Q02388	2167	AGPEGK PGLQGPR
P29602	116	ATVSMP PPSPP
P60245	14	GSCRPF PGCYNAL
P86289	60	PGPAGA PGDKGEA
P00877	104	IAYVAY PIDLFEE
P29602	117	TVSMPP PSSPPS
P30754	711	IGLPGS PGQPGLP
P02457	746	KGADGA PGKDGLR
P30754	375	AGLPGN PGSDGRP
P02747	99	PGMPGV PGPMGIP
Q4ZJN1	58	KGDAGE PGHPGGP
Q93WP8	50	SPASSP PSKEVSN
Q7Z096	65	LGGICK PSTSWIG

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P30754	536	ATGPAGPTGSPGV
Q9ZT16	24	SALAQAPAPTPTA
P0C1W5	55	DCQVSTPGSKWGR
P02457	524	PGEAGLPGAKGLT
Q15848	91	VPGAEGPRGFPGI
P30754	291	PGDVGA PGHAGEA
P02457	659	PGNAGAPGPAGAR
P82439	8	YQYSPPPPPKKKY
P30754	39	QGLRGE PGDSGPM
P30754	1013	RSGPPGPGPPGP
P02457	581	KGAAGEPGKPGER
P0C8V5	65	TFCGIK PGLCCSA
P86289	39	KGVQGP GPGQGPR
P02457	986	SGERGP GPGMGPP
P30754	366	QGNQGT PGIAGLP
Q9SJY7	24	SCLAQAPAPAPTT
B2KPN7	64	YHAHPK P NSFCTL
Q05707	1497	RGEIGL GPGQGPP
P82439	7	NYQYSP PPPPKKK
Q25460	437	AKPSYP PSYKAKP
Q0VKG8	56	ERRDRP PSWIPK@
P30754	894	PGAAGP PGDRGER
P30754	306	RGSPGS GPGAGSP
P86289	84	RGSAGP PGATGFP
Q7XAD0	63	PPTSSS PTHQEIV
P29602	115	NATVSM PPPSSSP
Q7M1I4	17	PPVVSS PPPPYYY
Q7M1I4	19	VVSSPP P P Y Y Y S
P19999	67	PGKLGP PGSVGAP
Q25460	867	AKTSYP PAYKPTN
P85154	806	RGERGL PGVAGAV
P30754	945	KGWTGL PGLQGLQ
P86289	107	AGPAGP GPGAGAR
P30754	162	DGLAGP GPGPGPI
P02747	93	NGPMGP PGMPGVP
Q9ZT16	28	QAPAPT PTATPPP
O82337	31	GAQSLA PAPAPTS
D2Y171	62	EGPGRD PAPCCQH
Q93WP8	150	NRKPLS PPSPKPA
Q9M0S4	24	SAIAQA GGPAPTR
Q93WP8	153	PLSPPS PKPADGQ
P86289	6	@GATGA PGIAGAP
P08252	74	TPTPPT PPGGGDL
P55963	7	GCCGSY PNAACHP
P0CG45	13	PPKKHC PAPACKY
Q9ZT16	32	PTPTAT PPPATPP
P86290	6	@GSNGE PGSAGPP
P80762	8	MYLPPV PPPPVVP
P12108	158	PGKPGP PGHIQGV
P0C2W8	869	PGRDGS PGPKGDR
P30754	432	NGAPGE PGAHGEQ
P12111	2319	RGFPGY PGPKGPN
P29602	127	PPSSVM PPPVMPP
P12111	2206	FGRRGP PGA KGNK
P02457	179	AGPRGL PGPPGAP
P02457	428	SGEPGA PGNGKGT
P30754	423	PGARGE PGKNGAP
P0CH13	14	NCDVFR PYRCCSG
P85153	420	PGANGN GPGAGPP

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B2CS62	8	RVENKC	P	H	T	V	C	C	D
Q05707	1677	QGPPGT	P	G	F	P	G	N	A
P02457	1040	PGAPGA	P	G	A	P	G	P	V
Q4ZJN1	31	QGHSGI	P	G	N	P	G	H	N
P30754	648	QGQPGP	P	G	D	A	G	P	A
Q9SJY7	26	LAQAPA	P	A	P	T	T	V	T
P02457	593	RGAPGP	P	G	A	V	G	A	A
P02457	194	QGFQGP	P	G	E	P	G	E	P
Q3Y5Z3	39	GWMAGI	P	G	H	P	G	H	N
Q9LVC0	36	DAPAPS	P	T	S	D	A	S	S
P30754	93	GGMPGM	P	G	P	K	G	H	R
Q9C5S0	26	GQAPTS	P	P	T	A	T	P	A
P58916	7	CKGKGA	P	C	T	R	L	M	Y
P02457	1109	SGLQGP	P	G	P	P	G	A	P
P15502	347	VPGVGV	P	G	A	G	I	P	V
P02457	1013	PGAEGA	P	G	R	D	G	A	A
P14618	403	ELRRLA	P	I	T	S	D	P	T
Q02388	2664	KGEMGE	P	G	V	P	G	Q	S
P86289	30	QGPSGA	P	G	P	K	G	V	Q
D2Y171	50	DAADVK	P	V	A	R	T	N	E
Q7M1I4	18	PVVSSP	P	P	P	Y	Y	Y	Y
Q9M0S4	36	RSPLPS	P	A	Q	P	P	R	T
P85154	176	IGSAGP	P	G	F	P	G	A	P
P30754	123	QGPDGG	P	G	P	A	G	P	S
A1X158	73	TAWKAP	P	P	A	W	T	A	W
P02457	992	PGPMGP	P	G	L	A	G	P	P
P30754	54	IGKRGP	P	G	P	A	G	I	A
P02457	776	KGEAGP	P	G	P	A	G	P	T
P02821	9	APGLGA	P	A	P	Y	P	D	P
Q05707	1470	AGPPGG	P	G	L	R	G	P	K
P0C8V5	57	RDECFS	P	G	T	F	C	G	I
Q9SJY7	35	TTVTTP	P	T	A	L	P	P	V
P30754	645	QGIQGG	P	G	P	P	G	D	A
P30754	243	PGPSGF	P	G	P	R	G	M	P
P02467	439	NGDAGR	P	G	E	P	G	L	M
Q05707	1659	QGPPGE	P	G	R	P	G	S	P
P02457	323	PGAAGP	P	G	P	T	G	P	A
P08427	30	DVCAGS	P	G	I	P	G	A	P
Q9LJD9	36	EAPAPS	P	T	S	D	A	A	M
P01042	383	SLMKRP	P	G	F	S	P	F	R
P85886	55	RTCCSR	P	T	C	R	M	E	Y
Q05707	1532	KGDTGL	P	G	P	Q	G	I	P
P30754	714	PGSPGQ	P	G	L	P	G	P	S
P85154	497	PGERGI	P	G	E	F	G	L	P
Q05707	1665	PGRPGS	P	G	A	P	G	E	Q
P02457	737	KGDRGD	P	G	P	K	G	A	D
Q05707	1726	PSGESR	P	G	S	P	G	P	P
Q7M1I4	12	SSPPPP	P	V	V	S	S	P	P
Q9ZT16	38	PPPATP	P	P	V	A	T	P	P
P84900	54	ESPD RP	P	G	F	S	P	F	R
P30754	417	QGRAGP	P	G	A	R	G	E	P
P23805	195	SGARGP	P	G	L	K	G	D	R
Q05707	1574	PGPIGI	P	G	T	P	G	V	P
Q7Z096	38	RVKNRG	P	S	F	C	K	A	D
P30754	888	MGQRGL	P	G	A	A	G	P	P
P02457	335	AGPPGF	P	G	A	A	G	A	K
P12111	2239	AGPAGP	P	G	L	I	G	E	Q
Q9C5S0	33	PTATPA	P	P	T	P	T	T	P
P58923	11	RDSRCP	P	V	C	C	M	G	L

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Q05707	1643	AILNQI <b>P</b> SHSSSI
Q941C7	63	KHDPGV <b>P</b> PSATGQ
Q9BPB2	49	QQKRLC <b>P</b> DYTDPC
P0C1X1	55	NCCGYN <b>P</b> MTICPP
Q9C5S0	27	QAPTSP <b>P</b> TATPAP
P85020	15	IQLRAC <b>P</b> CCPN@@
P05482	17	KDRRCK <b>P</b> LKCCA@
Q05707	1689	AGVPGT <b>P</b> GERGLT
O82337	33	QSLAPA <b>P</b> APTS DG
P0C2W8	292	AKGEPG <b>P</b> IGIQGP
P85153	648	TGLQGL <b>P</b> GPPGTS
Q8LG54	26	LAQAPA <b>P</b> SPTTTV
Q05707	1747	PGHLGV <b>P</b> GPGGPS
P02745	85	PGKVG <b>P</b> YGP SGPL
Q9ZT16	37	TPPPAT <b>P</b> PPVATP
P30754	237	SGESGL <b>P</b> GPSGFP
P15502	286	AGVPGV <b>P</b> GAIPGI
P69746	5	@@CCGV <b>P</b> NAACHP
Q9UKV8	700	LEKDYQ <b>P</b> GITFIV
P30754	276	QGRPGA <b>P</b> GVKGSS
P80762	10	LPPVPP <b>P</b> PVPTF
P02457	536	TGSPGS <b>P</b> GPDGKT
P69765	49	RCCPGK <b>P</b> CCRIG@
P85154	479	PGFQGL <b>P</b> GPSGTA
P0C2W8	764	PGEVGP <b>P</b> GPPGPA
A1X158	72	WTAWKA <b>P</b> PPAWTA
P14618	408	APITSD <b>P</b> TEATAV
D2Y168	57	SSNKCS <b>P</b> GFPG@@
Q7XAD0	120	DYVAS <b>P</b> PPPKPD
P30754	723	PGPSGQ <b>P</b> GPSGPA
P58922	61	LTTCL <b>P</b> A <b>P</b> SECCSE
P15502	415	VGVGGI <b>P</b> GVAGVP
P30754	915	QGPVGA <b>P</b> GSQGPA
P01522	49	STRCKS <b>P</b> GSSCSP
P52285	143	IKNDFT <b>P</b> EEEEQI
P85154	410	AGARGE <b>P</b> GNIGFP
Q7Z094	29	LSGICA <b>P</b> STNWIL
P02457	788	TGARGA <b>P</b> GDRGEP
Q15848	71	KGEKGD <b>P</b> GLIGPK
P15502	116	AGLGGV <b>P</b> GVGGLG
P0C1X1	74	CPPKRK <b>P</b> GRRND@
Q05707	1544	PGGVGS <b>P</b> GRDGSP
P02457	296	MGPRGL <b>P</b> GERGRP
P02457	911	AGRPGE <b>P</b> GPA GPP
P19999	73	PGSVGA <b>P</b> GSQGPK
P85153	12	VGPIGP <b>P</b> GERGAP
P29602	121	PPSSSS <b>P</b> PSSVMP
P0CH16	18	KSRACK <b>P</b> SYCC@@
Q9LJD9	34	QTEAPA <b>P</b> SPTSDA
P85012	8	YCCRR <b>P</b> PCTLIC@
P05539	839	AAGRVG <b>P</b> PGSNGN
P15502	342	VPAGV <b>P</b> GVGVPG
P02457	635	PGFQGL <b>P</b> GPA GPP
P02457	545	DGKTGP <b>P</b> GPA GQD
Q25460	649	AKPSYP <b>P</b> TYKPKI
P30754	774	RGEDGP <b>P</b> GVSGPT
P82439	9	QYSPPP <b>P</b> PKKKYY
P30754	855	PGKDGL <b>P</b> GLAGRP
Q7Z094	11	CKADEK <b>P</b> CEYHAD

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Q05707	1503	PGPQGP	PGPQGPS
P02747	63	KGEPGI	PAIPGIR
P02457	560	PGPAGP	PGARGQA
Q05707	1517	LSIQGM	PGMPGEK
Q16665	402	ALTLLA	PAAGDTI
P58928	22	NPGTMC	PSCMCTN
P02457	383	PGADGQ	PGAKGAT
P02457	671	RGERGF	PGERGVQ
P02457	926	PGEKGS	PGADGPI
P30754	621	RGDMGS	PGERGSP
P30754	647	IQQQPG	PGDAGP
P30754	174	IGSTGS	PGFPGTP
Q7Z091	8	CKKDRK	PCTSYHAD
P0C8V9	55	AGNYCG	PTVMKIC
P00057	79	YDYLLN	PKKYIPG
P55963	20	CCKDR	PSYCGQ@
Q9LVC0	34	AVDAPA	PSPTSDA
P82439	10	YSPPPP	PKKKY@
P58804	21	FKTCCG	PGDWQC
P15502	580	GLGAGI	PGLGVGV
P08427	36	PGIPGA	PGNHGLP
Q7XAD0	58	YKTPPP	PTSSSPT
Q9BPB1	58	WQYCES	PTDCCSW
P58782	21	GCKVGR	PPYCDRP
Q7XAD0	119	HDYVAS	PPPPKPQ
Q9SJY7	28	QAPAPA	PTTVTPP
P30754	72	DGRDGE	PGPRGGI
P02457	1112	QGPPGP	PGAPGEQ
P02457	518	PGEAGR	PGEAGLP
P58928	17	TCCGYN	PGTMCPS
P86289	12	PGIAGA	PGFPGAR
P02457	653	PGEQGV	PGNAGAP
P80762	6	@NMYLP	PVPPPPV
P30754	525	VGPRGM	PGERGAT
P30754	161	VDGLAG	PPGPPGP
Q05707	1577	IGIPGT	PGVPGIT
Q7XAD0	80	DSVLPP	PSPKTD
P02457	887	IGLPGP	PGPAGKZ
Q9SJY7	34	PTTVTP	PPTALPP
P23805	153	PGIQGF	PGPSGLK
Q25460	92	KPKPSY	PPTYKSK
P30754	1014	SGPPGP	PGPPGPP
Q02388	2185	VGGHGD	PGPPGAP
P58841	11	DCLVCI	PCCPN@@
Q7M1I4	10	SYSSPP	PPPVVSS
P84349	60	YQWLGA	PVPYPDP
P60513	6	@DDCIK	PYGFCSL
P30754	24	RGPPGP	PGSPGQQ
P30754	273	TGEQGR	PGAPGVK
P30754	513	GGERGA	PGDRGNV
Q25460	175	SSYKAK	PSYPPTY
P02457	728	RGAAGL	PGAKGDR
P0C2W8	767	VGPPGP	PGPAGEK
P86289	54	TGPIGP	PGPAGAP
Q25460	595	PSYKAK	PTYPSTY
P05539	1076	LQGLPG	PPGPSGD
P0C7W7	6	@@IIGA	PCRRCYH
P0C8W0	68	CETDTG	PCCCKPN
Q4ZJN1	151	LGPKGL	PGPMGPI

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P39056	9	INGQGA <b>P</b> APYPDP
P19999	61	RGLQGP <b>P</b> GKLGPP
Q05707	1674	PGEQGP <b>P</b> GTPGFP
P83184	5	@@YAEV <b>P</b> SPAAQA
P0C8W0	53	EKRGC <b>D</b> PTDGCQT
P84698	7	DCPTRC <b>P</b> TTCANG
Q05707	1680	PGTPGF <b>P</b> GNAGVP
P02457	278	AGPKGE <b>P</b> GSPGEN
P0C2W8	290	AGAKGE <b>P</b> GPIGIQ
P85011	6	@GCCSD <b>P</b> RCRYRC
P02457	362	QGSERGE <b>P</b> GPPGPA
P85154	284	SGSKGE <b>P</b> GSAGPQ
P12111	2316	KGERGF <b>P</b> GYPGPK
P30754	849	PGQEGA <b>P</b> GKDGLP
P02457	935	DGPIGA <b>P</b> GTPGPQ
P56529	52	LLERRH <b>P</b> PCCMYG
P02457	377	AGPAGN <b>P</b> GADGQP
P30754	249	PGPRGM <b>P</b> GTAGSP
Q25460	159	PKPSYP <b>P</b> SYKTKK
P02745	45	PGRRGR <b>P</b> GKGEQ
P02457	584	AGEPGK <b>P</b> GERGAP
P30754	792	QGERGM <b>P</b> GMVGLR
Q3Y5Z3	48	PGHNGT <b>P</b> GRDGRD
Q93WP8	45	NLPPPS <b>P</b> ASSPPS
Q4ZJN1	34	SGIPGN <b>P</b> GHNGLP
P56529	53	LERRHP <b>P</b> CCTMYGR
P85020	5	@@GCCS <b>P</b> WNCIQL
P30754	990	PGKDGQ <b>P</b> GPSGRV
P05539	1133	ETGPAG <b>P</b> PGNPGP
P85016	10	PPQWCG <b>P</b> DCTSPC
P30754	540	AGPTGS <b>P</b> GVAGAK
P02457	1007	AGREGA <b>P</b> GAEGAP
Q9LYF6	31	EAPAPS <b>P</b> TSGSSA
Q941C7	64	HDPGVP <b>P</b> SATGQR
P23805	111	RGPPGM <b>P</b> GPGAGRE
P30754	503	ATGPSG <b>P</b> AGPGGE
P02457	1037	AGPPGA <b>P</b> GAPGAP
P30754	1017	PGPPGP <b>P</b> GPPGNS
P30754	180	PGFPGT <b>P</b> GSKGDR
P69747	55	RGCCSD <b>P</b> RCNYDH
P86289	90	PGATGF <b>P</b> GAAARG
P23805	147	KGGVGA <b>P</b> GIQGF
P23805	108	TGPRGP <b>P</b> GMMPGA
P08252	67	SQCPGG <b>P</b> TPTPPT
P12111	2100	KGSRGF <b>P</b> GEEKGEV
P02457	215	RGPAGP <b>P</b> GKNGDD
P86290	12	PGSAGP <b>P</b> GPAGLR
P58782	22	CKVGRP <b>P</b> YCDRPS
P30754	717	PGQPGL <b>P</b> GPSGQP
P30754	207	VGLSGQ <b>P</b> GVAGEN
P30754	815	MKGDGG <b>P</b> PGPSGD
P02457	503	PGERGS <b>P</b> GAVGPK
P08427	67	GPPGGM <b>P</b> GLPGRD
P30754	551	AKGQGG <b>P</b> PGPAGL
P30754	150	DGKSGL <b>P</b> GLRGVD
P58843	5	@@DQSC <b>P</b> WCGFTC
P58914	7	CKPPGS <b>P</b> CRVSSY
Q05707	1741	PGPRGP <b>P</b> GHLGVP
P56710	6	@SKCFS <b>P</b> GTFCGI

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Q6PSU2	74	SQDPYS <b>P</b> SQDPDR
P30754	53	PIGKRG <b>P</b> PGPAGI
P01523	56	RRDCCT <b>P</b> PKKCKD
P30754	861	PGLAGR <b>P</b> GERGEP
O82337	35	LAPAPA <b>P</b> TSDGTS
Q7M1I4	11	YSSPPP <b>P</b> PVVSSP
P85154	599	DGARGA <b>P</b> GAVGAP
P08427	42	PGNHGL <b>P</b> GRDGRD
Q25460	115	PTYKAK <b>P</b> SYPSSY
P0C2W8	1001	NGLPGP <b>P</b> GPPGPR
Q4ZJN1	76	RGEKGE <b>P</b> GADGRV
P85154	731	TGPPGP <b>P</b> GAAAGKE
P30754	177	TGSPGF <b>P</b> GTPGSK
P02457	182	RGLPGP <b>P</b> GAPGPQ
Q25460	866	KAKTSY <b>P</b> PAYKPT
P30754	228	DGANGE <b>P</b> GASGES
P85016	5	@GCCP <b>P</b> QWCGPD
P02747	54	DGYDGL <b>P</b> GPKGEP
Q8LG54	28	QAPAPS <b>P</b> TTTVTP
P30754	327	PGSRGL <b>P</b> GMTGAS
Q2I2Q5	58	RDECCE <b>P</b> QWCDGA
P28880	55	CRSSGS <b>P</b> CGVTSI
Q9U3Z3	53	WGGCGH <b>P</b> CRHPGK
P02457	185	PGPPGA <b>P</b> GPGGFQ
Q0VTT8	52	KRFEPV <b>P</b> PGFTPF
P85154	824	LGIAGP <b>P</b> GARGPP
P08427	33	AGSPGI <b>P</b> GAPGNH
P02747	81	KGEPGL <b>P</b> GHPGKN
P02457	719	PGLEGM <b>P</b> GERGAA
Q93WP8	43	GANLPP <b>P</b> SPASSP
P0C8W0	93	CSCSGQ <b>P</b> SDCPV@
P30754	1019	PPGPPG <b>P</b> PGNSDY
P02457	269	DGAKGQ <b>P</b> GPAQPK
P85017	11	RPICTC <b>P</b> CCIGP@
P02457	236	PGQRGP <b>P</b> GPGGAR
P85154	605	PGAVGA <b>P</b> GPAAT
Q8LG54	36	TTVT <b>P</b> PPVATPPP
P56529	64	GRCRRY <b>P</b> GCSSAS
P0C1X1	61	PMTICP <b>P</b> CMCTYS
P02457	287	PGENG <b>P</b> QMGPR
P80762	9	YLPPVP <b>P</b> PPVVPT
A6YR20	82	TAAW <b>W</b> CPG <b>T</b> KWD@
P02457	707	AGAPGA <b>P</b> GN <b>E</b> GPP
P05483	7	CKSPGT <b>P</b> CSRGMR
P0C8S5	10	IYDAKP <b>P</b> FSCAGL
P80760	11	PPVEKP <b>P</b> VYKPPV
P02457	533	KGLTGS <b>P</b> GSPGPD
Q15848	95	EGPRGF <b>P</b> GIQGRK
Q05707	1550	PGRDGS <b>P</b> GQGLP
P02457	875	AGRVGP <b>P</b> GPSGNI
P0CG45	8	PPCCTP <b>P</b> KKHCPA
P30754	1020	PGPPGP <b>P</b> GN <b>S</b> DYG
P30754	773	ERGEDG <b>P</b> PGVSGP
P0C8V9	67	CCGFCS <b>P</b> FSKICM
P30754	303	AGKRGS <b>P</b> GSPGPA
P30754	663	KGDIGF <b>P</b> GERGTR
Q3Y5Z3	86	ITGIEG <b>P</b> RGFPGT
P02457	317	RGNDGA <b>P</b> GAA <b>G</b> PP
Q7Z092	11	CKANGK <b>P</b> CSYHAD

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P15502	283	VGGAGVPGVPGAI
Q4ZJN1	160	MGPIGKPGPRGEA
P30754	165	AGPPGPPIGST
Q05707	1686	PGNAGVPGTPGER
P30754	27	PGPPGSPGQQGYQ
P08252	72	GPTPTPTTPPGGG
P02457	1148	DGLNGLPGPIGPP
Q05707	1467	LGPAGPPGGPGLR
P80760	6	@NYDKPPVEKPPV
P00877	151	VKTFFVGPHGIQV
P02745	97	LGARGIPGIKGTK
P30754	21	IGPRGPPGPPGSP
P02457	230	AGKPGRPGQRGPP
Q3Y5Z3	42	AGIPGHPGHNGTP
Q7XAD0	79	HDSVLPSPSKTD
P0C8S5	24	GGCVLPNLRPKF
Q05707	1482	KGQQGEPGPKGPD
P0CH18	13	CAHKGEPTICCR
Q93WP8	42	RGANLPPSPASS
P02747	39	YGIPGMGLPGAP
P30754	312	PGPAGSPGPQGDR
P24091	69	CPGGPTPGGGDL
P80774	10	PPDFANFFIIPQN
P30754	759	RGSDGEPGRDGTK
Q7XAD0	122	VASPPPPKPKQDEQ
Q9ZT16	33	TPTATPPPATPPP
Q9LVC0	32	VAAVDAAPSPTS
Q800F1	54	EAPERPPGFTPFR
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Q25460	118	KAKPSYPSSYKPK
P02457	713	PGNEGPPGLEGMP
P30754	164	LAGPPGPPGPIGS
P85154	728	AGITGPPGPPGAA
P30754	561	AGLVGLPGERGPK
P02457	647	PGEAGKPGEQGVV
P30754	783	SGPTGAPGQQGER
P29602	132	MPPPVMPPPSPS@
P24091	67	SQCPGGPTPPGGG
Q7M1I4	9	YSYSSPPPPPVVS
P30754	533	ERGATGPAGPTGS
Q9M0S4	28	QAPGPAPTRSPLP
P30754	500	AVGATGPSGPAGP
Q4ZJN1	175	MGPQGEPGVRGMR
P02457	251	PGTAGLPGMKGHR
Q7XAD0	51	GNYGRTPYKTPPP
P0CH16	8	RVCCGYPMCKSR
P02457	200	PGEPPGPGASGPM
P02457	281	KGEPPGPGENGAP
P85022	11	RPICMCPCCIGAG
P02457	365	RGEPPGPGPAGAA
P29602	129	SSVMPPVMPPPPS
Q9ZT16	26	LAQAPAPTPTATP
Q9C5S0	31	SPPTATPAPTPT
P30754	1010	DDGRSGPPGPPGP
P30754	903	RGERGEPGGQGVQ
Q7XAD0	121	YVASPPPKPKQDE

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Q4ZJN1	115	TGEQGLPGETGPQ
P08427	54	DGVKGDPGPPGPM
Q7M1I4	26	PYYYYSPPPV@@
Q02388	2673	PGQSGAPGKEGLI
Q02388	2188	HGDPGP PGAPGLA
P85154	182	PGFPGA PGPKGEI
P15502	481	PGTGGV PGVGTPA
P02747	96	MGPPGM PGVPGPM
P02457	965	RGFPGL PGPSGEP
D5KR58	49	CWLCLGPNACCRG
P02467	442	AGRPGE PGLMGPR
P30754	219	NGHPGM PGMDGAN
P23805	78	AGRAGR PGWVGPI
P30754	506	PSGPAG PGGERGA
P02457	485	PGSRGF PGADGIA
P08252	75	PTPPTP PGGGDLG
P02457	512	VGPKGS PGEAGRP
P02457	917	PGPAGP GPPGGEK
Q02388	2176	QGPRGP GPPVGGH
P05539	1145	PPGPPG PPGPGID
P29602	128	PSSVMP PPMPPPP
P15502	327	GLVPGG PGFGPGV
D2Y171	58	ARTNEG PGRDPAP
P30754	627	PGERGS PGPAGER
P02747	45	PGLPGA PGKDGYD
Q05707	1598	LGPPGV PGAKGER
P30754	90	RGAGGM PGMPGPK
P02457	449	AGVQGP PGPAGEE
P0C1W5	74	CGPMCC PASHCYC
Q9ZT16	39	PPATPP PVATPPP
P30754	1016	PPGPPG PPGPPGN
P02747	105	PGPMGI PGEPGEE
P02747	36	TGCYGI PGMPGLP
P30754	744	KGARGS PGLVGKQ
P86500	43	DATTNC PDTYYFG
P02745	57	QGEPGA PGIRTGI
P86289	15	AGAPGF PGARGPS
P30754	465	TGARGP PGPRGQQ
Q4ZJN1	61	AGEPGH PGGPGKD
P85012	7	DYCCRR PPCTLIC
P02457	884	SGNIGL PGPPGPA
P56711	76	CELYAF PSFGA@@
P81727	13	AYGESCPSSCNTC
Q8LG54	35	TTTVTP PPVATPP
P23805	129	QGSMGP PGTPGPK
P02457	425	KGNSGE PGAPGNK
P23805	132	MGPPGT PGPKGET
P85154	815	AGAVGE PGPLGIA
Q25460	214	KAKPTY PSTYKAK
P30754	348	KGPSGE PGAKGPT
P02457	479	AGERGA PGSRGFP
P0C1W8	11	PNAACP PCVCNKT
P83184	7	YAEVPS PAAQAPT
P08427	70	GGMPGL PGRDGLP
P80762	11	PPVPPP PVVPTF@
P02457	908	TGPAGR PGEPGPA
A1X158	65	WKATPK PWTAWKA
Q7XAD0	57	PYKTPP PPTSSSP
Q25460	93	PKPSYP PTYKSKP

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Q6PSU2	86	RRDPYS	PSPYDRR
D2Y171	64	PGRDPA	PCCQHPI
P30754	453	TGAAGP	PGAAGPT
P30754	552	KGQGGP	PGPAGLV
Q7XAD0	56	TPYKTP	PPPTSSS
P30754	867	PGERGE	PGVAGRA
P02457	1115	PGPPGA	PGEQGPS
P0CG45	7	LPPCCT	PPKKHCP
P08427	76	PGRDGL	PGAPGAP
P02457	629	QGPAGA	PGFQGLP
P58786	57	LRRSGC	PWEPWCG
P0C1X1	60	NPMTIC	PPCMCTY
P0C1W6	59	INTRDS	PWGRCCR
P30754	255	PGTAGS	PGQAGAK
P29602	122	PPSSSP	PSSVMPP
P02457	1133	AGPRGP	PGSAGAA
P02457	1154	PGPIGP	PGPRGRT
Q05707	1595	QGALGP	PGVPGAK
P02457	1153	LPGPIG	PPGPRGR
Q9M0S4	26	IAQAPG	PAPTRSP
P58804	22	KTCCGP	PGDWQCV
P12108	178	CPTNCP	PGPKGPQ
P02457	839	AGPTGA	PGPAGZV
P15502	677	LGGVGI	PGGVVGA
P02747	42	PGMPGL	PGAPGKD
P0C1X1	40	VVHERA	PELVVTA
P02457	554	AGQDGR	PGPAGPP
Q05707	1556	PGQRGL	PGKDGSS
P30754	954	QGLQGT	PGHSGES
P58915	21	CCRSCN	PYSRKC@
Q05707	1732	PGSPGP	PGSPGPR
P30754	1011	DGRSGP	PGPPGPP
P07550	382	LLCEDL	PGTEDFV
P08252	71	GGPTPT	PPTPPGG
P02745	54	KGEQGE	PGAPGIR
P02457	470	PGPAGL	PGPAGER
P15502	607	GVGAGV	PGFGAGA
A6YR20	65	WCDQEA	PHGNCCD
P69746	11	PNAACH	PCVCKNT
P0CH18	20	CTICCR	PLRCHEE
P30754	843	SGQAGA	PGQEGAP
Q05707	1729	ESRPGS	PGPPGSP
P86500	24	ECLENY	PGQASQR
P30754	372	PGIAGL	PGNPGSD
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P30754	387	PGKDGR	PGIRGKD
P02457	590	PGERGA	PGPPGAV
P30754	963	SGESGP	PGAPGPR
P30754	483	AGAQGT	PGEAGKT
P02457	641	PGPAGP	PGEAGKP
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P58925	57	RLCCGF	PKSCRSR
P30754	321	QGDRGL	PGSRGLP
Q9LJD9	32	AAQTEA	PAPSPTS
P85154	761	TGASGP	PGFAGEK
P0C349	8	HGCCKG	PKGCSSR

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## Negative dataset

Uniprot ID	Site	Sequence
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Q3Y5Z3	25	DNMEDPLPKGAC
Q3Y5Z3	27	MEDPPLPKGACAG
Q3Y5Z3	57	DGRDGTGGEKGEK
Q3Y5Z3	66	KGEKGDPLVGPK
Q3Y5Z3	71	DPGLVGPKGDTGE
Q3Y5Z3	90	EGPRGFPGTPGRK
Q3Y5Z3	93	RGFPGTGRKGEP
Q3Y5Z3	99	PGRKGEGESAYV
Q3Y5Z3	121	ERQVTVPNVPIRF
Q3Y5Z3	124	VTVPNVPIRFTKI
Q3Y5Z3	150	KFLCNIPLYYFS
Q15848	14	LLLLLALPGHDQET
Q15848	25	ETTTQGGVLLPL
Q15848	30	GPGVLLPLPKGAC
Q15848	32	GVLLPLPKGACTG
Q15848	86	IGETGVGAEGPR
Q15848	126	ETYVTIPINMPIRF
Q60994	14	LFLLLILPSHAEDD
Q60994	29	TTEELAPALVPPP
Q60994	33	LAPALVPPPKGTC
Q60994	34	APALVPPPKGTCA
Q60994	35	PALVPPPKGTCAG
Q60994	47	GWMAGIPGHPGHN
Q60994	50	AGIPGHPGHNGTP
Q60994	56	PGHNGTPGRDGRD
Q60994	79	DAGLLGPKGETGD
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P07550	14	SAFLLAPNGSHAP
P07550	20	PNGSHAPDHDVTQ
P07550	88	MGLAVVPFGAAHI
P07550	138	YFAITSPFKYQSL
P07550	168	GLTSFLPIQMHWY
P07550	211	IVSFYVPLVIMVF
P07550	288	FTLCWLFFFIVNI
P07550	323	VNSGFNLIYCRS
P07550	330	LIYCRSPDFRIAF
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Q9UKV8	11	AGPALAPAPPPPP
Q9UKV8	12	GPALAPAPPPPI
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Q9UKV8	25	QGYAFKPPRPDF
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Q9UKV8	92	IFGDRKPVFDGRK
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Q9UKV8	152	ALSGRLPSVPFET
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Q9UKV8	392	ASFNTDPYVREFG
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Q4ZJN1	108	PKSIGPTGEQGL
Q4ZJN1	120	LPGETGPQGQKGD
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Q4ZJN1	147	STGPLGPKGLPGP
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Q4ZJN1	217	ISKFPDAP I K F
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P60274	9	DECCSN PACRVNN
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P30754	17	QVGPIGPRGP PG
P30754	20	PIGPRGP PGPPGS
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P30754	266	AKGDGGPTGEQGR
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P30754	830	ERGNAGPQGPTGP
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P30754	983	GRGSQGP PGKDGQ
P30754	992	KDGQPGPSGRVGP
P30754	998	PSGRVGPRGPSGD
P30754	1001	RVGPRGPSGDDGR
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Q24940	166	LVDCSGPWGNNGC
Q24940	238	LVGARRPAAVAVD
Q24940	264	QSQTCSPLRVNHA
Q24940	320	ASLASLPMVARFP
P0C8S5	9	GIYDAKPPFSCAG
P0C8S5	23	RGGCVLPPNLRPK
C3VVN6	2	@@@@@MPKLAVVL
C3VVN6	15	LVLLILPLSYFDA
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P0C1W6	75	CGSMCCPRNGCTC
P15472	24	RCGRGNPQKCIGA
P08252	36	AGGARCP SGLCCS
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P08252	182	TPSGQWPCAPGRK
P08252	185	GQWPCAPGRKYFG
P08252	194	KYFGRGPIQISHN
P08252	205	HNYNYGPCGRAIG
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P08252	225	DLVATDPVISFKS
P08252	239	LWFWMT PQSPKPS
P08252	242	WMTPQSPKPSCHD
P08252	244	TPQSPKPSCHDVI
P08252	256	IIGRWQPSAGDRA
P08252	267	RAANRLPGFGVIT
P08252	308	SILGVSPGDNLDC
P24091	70	PGGPTPPGGGDLG
Q9BPJ7	16	ICLLLFPLTAVPM
Q9BPJ7	21	FPLTAVPMDGDQP
Q9BPJ7	27	PMDGDQPADRP AE
Q9BPJ7	31	DQPADRPAERMQD
Q9BPJ7	45	ISFEQH PMFDATR
Q2I2Q5	16	TFLVLFP LTTLEL
Q2I2Q5	27	ELDTDRPVERHAA
Q2I2Q5	40	IKQDLKPQERRGI
Q2I2Q5	51	GIRLHAPRDECCE

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P01523	27	PMDGDEPANRPVE
P01523	31	DEPANRPVERMQD
P01523	45	ISSEQYPLFEKRR
P58925	45	ISSEEHPEFEKRQR
P0C424	4	@@@CCAPSACRLG
P58846	21	FSLNAVPLDGDQP
P58846	31	DQPADQPAERLLD
P58846	45	ISFENNPFYDPAK
P58846	49	NNPFYDPAKRCCR
P0C1N1	45	ISSEHHPFYDPVK
P0C1N1	49	HHPPFDVVKRCCR
P56529	16	ICLLLFPIITALLM
P0C1N5	45	ISSERHPMFDAVR
P0C1N5	57	RDCCPLPACPFGC
P0C1N5	60	CPLPACPFGCNPC
P85017	6	@KCCMRPICTCPC
P0C8V5	34	GLKDLFPKARHEM
P0C8V5	43	RHEMKNPEASKLN
P0C8V6	56	KRDECYPGTFCG
P0C8V6	75	CSERCFPFVCLSL
D5KR58	28	ADDMEYPKWLRGL
P58913	75	CSEFCLPGVCFGG
P86289	20	FPGARGPSGPQGP
P86289	23	ARGPSGPQGPPGA
P86289	26	PSGPQGPAGPAGP
P86289	32	PSGAPGPKGVPQGP
P86289	38	PKGVPQGPQGPQGP
P86289	41	VQGPQGPQGPQGP
P86289	44	PPGPQGPQGPQGP
P86289	50	PRGLTGPIGPQGP
P86289	53	LTGPPIGPQGPQGP
P86289	56	PIGPQGPQGPQGP
P86289	68	DKGEAGPSGPQGP
P86289	71	EAGPSGPQGPQGP
P86289	72	AGPSGPQGPQGP
P86289	74	PSGPQGPQGPQGP
P86289	83	ARGSAGPPGATGF
P86289	100	GRGETGPAGPAGP
P86289	103	ETGPAGPAGPQGP
P86289	106	PAGPAGPPGPQGP
P86289	109	PAGPPGPAGAR@@
P02457	48	DKDVWKPEPCQIC
P02457	50	DVWKPEPCQICVC
P02457	75	EDTSDCPNAEIPF
P02457	80	CPNAEI PFGECCP
P02457	86	PFGECCPICPDVD
P02457	89	ECCPICPDVDASP
P02457	95	PDVDASPVYPESA
P02457	98	DASPVYPESAGVE
P02457	106	SAGVEGPKGDTGP
P02457	112	PKGDTGPRGDRGL
P02457	119	RGDRGLPGPPGRD
P02457	121	DRGLPGPPGRDGI
P02457	122	RGLPGPPGRDGI
P02457	128	PGRDGI PGQPGLP
P02457	131	DGIPGQPGLPGPP
P02457	134	PGQPGLPGPPGPP
P02457	139	LPGPPGPPGPPGL
P02457	140	PGPPGPPGPPGLG

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P02457	142	PPGPPGPPGLGGN
P02457	143	PGPPGPGLGGNF
P02457	151	LGGNFAPQMSYGY
P02457	167	SAGVAVPGPMGPA
P02457	169	GVAVPGPMGPAGP
P02457	172	VPGPMGPAGPRGL
P02457	175	PMGPAGPRGLPGP
P02457	181	PRGLPGPPGAPGP
P02457	187	PPGAPGPQGFQGP
P02457	193	PQGFQGPGEPEG
P02457	205	EPGASGPMGPRGP
P02457	208	ASGPMGPRGPAGP
P02457	211	PMGPRGPAGPPGK
P02457	214	PRGPAGPPGKNGD
P02457	227	DGEAGKGRPGQR
P02457	235	RPGQRGPPGPQGA
P02457	238	QRGPPGPQGARGL
P02457	271	AKGQPGPAGPKGE
P02457	274	QPGPAGPKGEPS
P02457	292	APGQMGPRLPGE
P02457	304	ERGRPGPSGPAGA
P02457	307	RPGPSGPAGARGN
P02457	322	APGAAGPPGPTGP
P02457	325	AAGPPGPTGPAGP
P02457	328	PPGPTGPAGPPGF
P02457	331	PTGPAGPPGFPGA
P02457	346	AKGETGPQGARGS
P02457	355	ARGSEGPQGSERGE
P02457	364	SRGEPGPPGPAGA
P02457	367	EPGPPGPAGAAGP
P02457	373	PAGAAGPAGNPGA
P02457	418	PSGAPGPKGNSGE
P02457	442	AKGEPGPAGVQGP
P02457	448	PAGVQGP PGPAGE
P02457	451	VQGPPGPAGEEGK
P02457	466	ARGEPPAGLPGP
P02457	472	PAGLPGPAGERGA
P02457	493	ADGIAGPKGPPGE
P02457	496	IAGPKGPPGERGS
P02457	508	SPGAVGPKGSPGE
P02457	538	SPGSPGPDGKTGP
P02457	544	PDGKTGP PGPAQ
P02457	547	KTGPPGPAGQDGR
P02457	556	QDGRPGPAGPPGA
P02457	559	RPGPAGPPGARGQ
P02457	574	VMGFPGPKGAAGE
P02457	592	ERGAPGPPGAVGA
P02457	610	EAGAQQGP PGPTGP
P02457	616	PPGPTGPAGERGE
P02457	625	ERGEQQPAGAPGF
P02457	637	FQGLPGPAGPPGE
P02457	640	LPGPAGPPGEAGK
P02457	661	NAGAPGPAGARGE
P02457	685	PPGPQGPRGANGA
P02457	712	APGNEGPPGLEGM
P02457	739	DRGDPGPKGADGA
P02457	805	PAGFAGPPGADGQ
P02457	829	AKGDAGPPGPAGP
P02457	832	DAGPPGPAGPTGA

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P02457	841	PTGAPG <b>P</b> AGZVGA
P02457	850	ZVGAPG <b>P</b> KGARGS
P02457	874	AAGRVG <b>P</b> PGPSGN
P02457	877	RVGPPG <b>P</b> SGNIGL
P02457	886	NIGLPG <b>P</b> PGPAGK
P02457	889	LPGPPG <b>P</b> AGKZGS
P02457	898	KZGSKG <b>P</b> RGETGP
P02457	904	PRGETG <b>P</b> AGRPGE
P02457	913	RPGE <b>P</b> GPAGPPGP
P02457	916	EPGPAG <b>P</b> PGPPGE
P02457	919	PAGPPG <b>P</b> PGEEKS
P02457	931	SPGADG <b>P</b> IGAPGT
P02457	938	IGAPGT <b>P</b> GPQGIA
P02457	940	APGTPG <b>P</b> QGIAGQ
P02457	967	FPGLPG <b>P</b> SGEPGK
P02457	976	EPGKQG <b>P</b> SGASGE
P02457	985	ASGERG <b>P</b> PGPMGP
P02457	988	ERGPPG <b>P</b> MGPPGL
P02457	991	PPGPMG <b>P</b> PGLAGP
P02457	997	PPGLAG <b>P</b> PGEAGR
P02457	1021	RDGAAG <b>P</b> KGDRGE
P02457	1030	DRGETG <b>P</b> AGPPGA
P02457	1043	PGAPGAG <b>P</b> GPVGPA
P02457	1045	APGAPG <b>P</b> VGPAGK
P02457	1048	APGPVG <b>P</b> AGKNGD
P02457	1075	PAGARG <b>P</b> AGPQGP
P02457	1078	ARGPAG <b>P</b> QGPRGD
P02457	1081	PAGPQG <b>P</b> RGDKGE
P02457	1108	FSG <b>L</b> QG <b>P</b> PGPPGA
P02457	1111	LQGPPG <b>P</b> PGAPGE
P02457	1120	APGEQG <b>P</b> SGASGP
P02457	1126	PSGASG <b>P</b> AGPRGP
P02457	1129	ASGPAG <b>P</b> RGPPGS
P02457	1150	LNGLPG <b>P</b> IGPPGP
P02457	1156	PIGPPG <b>P</b> RGRTGE
P02457	1165	RTGEVG <b>P</b> VGPPGP
P02457	1168	EVGPVG <b>P</b> PGPPGP
P02457	1177	PPGPPG <b>P</b> PGPPSG
P02457	1180	PPGPPG <b>P</b> PSGGFD
P02457	1181	PGPPGP <b>P</b> SGGFDL
P02457	1191	FDLSFL <b>P</b> QPPQEK
P02457	1193	LSFL <b>P</b> Q <b>P</b> PQEKAH
P02457	1194	SFL <b>P</b> Q <b>P</b> PQEKAH
P02457	1237	IENIRS <b>P</b> EGTRKN
P02457	1244	EGTRKN <b>P</b> ARTCRD
P02457	1267	GEYWID <b>P</b> NQGCNL
P02457	1291	GETCVY <b>P</b> TQATIA
P02457	1307	WYLSKN <b>P</b> KEKKHV
P02457	1334	GGEGSN <b>P</b> ADVAIQ
P02457	1427	TKTSRL <b>P</b> IIDLAP
P02457	1433	PIIDLAP <b>P</b> MDVGAP
P02457	1439	PMDVGAP <b>P</b> DQEFGI
P02457	1449	FGIDIG <b>P</b> VCFL@@
P0C2W2	21	PGARGA <b>P</b> GPQGPS
P86290	11	EPGSAG <b>P</b> PGPAGL
P86290	14	SAGPPG <b>P</b> PAGLRGL
P86290	21	AGLRGL <b>P</b> GESGAV
P86290	29	ESGAVG <b>P</b> AGPPGS
P86290	32	AVGPAG <b>P</b> PGSR@@

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P02467	35	SAGRKGPRGDKGP
P02467	41	PRGDKGPQGERGP
P02467	47	PQGERGPPGPPGR
P02467	48	QGERGPPGPPGRD
P02467	50	ERGPPGPPGRDGE
P02467	51	RGPPGPPGRDGED
P02467	59	RDGEDGPPGPPGP
P02467	60	DGEDGPPGPPGPP
P02467	81	FAAQYDPSKAADF
P02467	89	KAADFPGPMGLM
P02467	91	ADFGPGPMGLMGP
P02467	97	PMGLMGPRGPPGA
P02467	100	LMGPRGPPGASGP
P02467	101	MGPRGPPGASGPP
P02467	106	PPGASGPPGPPGF
P02467	107	PGASGPPGPPGFQ
P02467	109	ASGPPGPPGFQGV
P02467	110	SGPPGPPGFQGV
P02467	116	PGFQGVPGEPGEP
P02467	119	QGVPGEPGEPGQT
P02467	122	PGEPEGEPGQTGPQ
P02467	127	EPGQTGPQGPRGP
P02467	134	QGPRGPPGPPGKA
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P02467	149	DGHPGKPGRPGER
P02467	152	PGKPGRPGERGVA
P02467	160	ERGVAGPQGARGF
P02467	167	QGARGFPGTGPP
P02467	170	RGFPGTGPPGFK
P02467	172	FPGTGPPGFKGI
P02467	173	PGTPGPPGFKGIR
P02467	191	DGLTGQPGAPGTK
P02467	194	TGQPGAPGTKGEP
P02467	200	PGTKGEPGAPGEN
P02467	203	KGEPGAPGENGTP
P02467	209	PGENGTPGQPGAR
P02467	212	NGTPGQPGARGLP
P02467	218	PGARGLPGERGRI
P02467	227	RGRIGAPGPAGAR
P02467	229	RIGAPGPAGARGS
P02467	241	SDGSAGPTGPA@@
P02467	267	@@GEIGPAGNEGP
P02467	273	PAGNEGPTGPAGP
P02467	276	NEGPTGPAGPRGE
P02467	279	PTGPAGPRGEIGL
P02467	286	RGEIGLPGSSGPV
P02467	291	LPGSSGPPGPPGN
P02467	294	SSGPVGPNGNPGA
P02467	295	SGPVGPNGNPGAN
P02467	298	VGPPGNPGANGLP
P02467	304	PGANGLPGAKGAA
P02467	313	KGAAGLPGVAGAP
P02467	319	PGVAGAPGLPGPR
P02467	322	AGAPGLPGPRGIP
P02467	324	APGLPGPRGIPGP
P02467	328	PGPRGIPGPPGPA
P02467	330	PRGIPGPPGPAGP
P02467	331	RGIPGPPGPAGPS

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P02467	333	IPGPPG <b>P</b> AGPSGA
P02467	336	PPGPAG <b>P</b> SGARGL
P02467	346	RGLVGE <b>P</b> GPAGAK
P02467	348	LVGE <b>P</b> GPAGAKGE
P02467	361	SGNKGE <b>P</b> GAAGPP
P02467	367	PGAAG <b>P</b> PGPPGPS
P02467	369	AAGPP <b>P</b> PGPSGE
P02467	370	AGPP <b>P</b> PGPSGEE
P02467	372	PPGPP <b>P</b> SGEEGK
P02467	385	RGSNGE <b>P</b> GSAGPP
P02467	391	PGSAG <b>P</b> GPAGLR
P02467	400	AGLRGE <b>P</b> GSRGLP
P02467	406	PGSRGL <b>P</b> GADGRA
P02467	417	RAGVM <b>P</b> AGNRGA
P02467	426	NRGAS <b>P</b> VGAKGP
P02467	432	PVGAK <b>P</b> NGDAGR
P02467	469	@@@@G <b>F</b> PADGRV
P02467	477	ADGRV <b>P</b> IGPAGN
P02467	480	RVGP <b>P</b> IGPAGNRGE
P02467	487	AGNRGE <b>P</b> GNIGFP
P02467	493	PGNIG <b>P</b> PGPKGPT
P02467	495	NIGFP <b>P</b> PGKPTGE
P02467	498	FPGP <b>P</b> KGPTGEPGK
P02467	502	KGPTGE <b>P</b> PKPGEK
P02467	505	TGEP <b>P</b> KGPEKGNV
P02467	516	NVGLAG <b>P</b> RGAPGP
P02467	520	AGPRGA <b>P</b> GPEGNN
P02467	522	PRGAP <b>P</b> GEGNNGA
P02467	531	NNGAQ <b>P</b> PGVTGN
P02467	532	NGAQ <b>P</b> PGVTGNQ
P02467	546	AKGET <b>P</b> AGPPGF
P02467	549	ETGPAG <b>P</b> PGFQGL
P02467	550	TGPAG <b>P</b> PGFQGLP
P02467	556	PGFQGL <b>P</b> GPSGPA
P02467	568	AGEAG <b>P</b> KGERGLH
P02467	580	HGEFGV <b>P</b> GPAGPR
P02467	582	EFGV <b>P</b> GPAGPRGE
P02467	585	VGPAG <b>P</b> RGERGL
P02467	603	AVGPAG <b>P</b> IGSRGP
P02467	609	PIGSRG <b>P</b> SGPPGP
P02467	612	SRGPS <b>P</b> PGPDGN
P02467	613	RGPSG <b>P</b> PGPDGNK
P02467	615	PSGPP <b>P</b> PDGNKGE
P02467	622	DGNKGE <b>P</b> GNVGPA
P02467	627	EPGNV <b>P</b> GPAGPGP
P02467	631	VGPAG <b>P</b> GPAGPG
P02467	633	PAGAP <b>P</b> AGPGGI
P02467	636	APGPAG <b>P</b> GGIPGE
P02467	640	AGPGGI <b>P</b> GERGVA
P02467	649	RGVAGV <b>P</b> GKGGEK
P02467	658	KGEKG <b>P</b> GLRGDT
P02467	676	DGARGL <b>P</b> GAIGAP
P02467	682	PGAIGA <b>P</b> GPAGGA
P02467	684	AIGAP <b>P</b> AGGAGD
P02467	699	EGGPAG <b>P</b> AGPAGA
P02467	702	PAGPAG <b>P</b> AGARGI
P02467	709	AGARGI <b>P</b> GERGEP
P02467	715	PGERGE <b>P</b> GPVGPS
P02467	717	ERGE <b>P</b> GPVGPSGF

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P02467	720	EPGPVGPSGFAGP
P02467	727	SGFAGPPGAAGQP
P02467	733	PGAAGQPGAQGER
P02467	741	AKGERGPKGPKGE
P02467	744	ERGPKGPKGETGP
P02467	750	PKGETGPTGAIGP
P02467	756	PTGAIGPIGASGP
P02467	762	PIGASGPPGPVGA
P02467	763	IGASGPPGPVGAA
P02467	765	ASGPPGPVGAAGP
P02467	771	PVGAAGPAGPRGD
P02467	774	AAGPAGPRGDAGP
P02467	780	PRGDAGPPGMTGF
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P02467	787	PGMTGFPGAAGR
P02467	796	AGRVGPPGPAGIT
P02467	798	RVGPPGPAGITGP
P02467	804	PAGITGPPGPPGP
P02467	805	AGITGPPGPPGPA
P02467	807	ITGPPGPGPAGK
P02467	808	TGPPGPGPAGKD
P02467	810	PPGPPGPAGKDGP
P02467	816	PAGKDGPRLRGD
P02467	825	LRGDVGPPVGRTE
P02467	837	EQGIAGPPGFAGE
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P02467	861	PPGTPGPQGILGA
P02467	868	QGILGAPGILGLP
P02467	874	PGILGLPGSRGER
P02467	883	RGERGLPGIAGAT
P02467	892	AGATGEPGPLGVS
P02467	894	ATGEPGPLGVSGP
P02467	900	PLGVSGPPGARGP
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P02467	909	ARGPSGPVGSPPG
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P02467	915	PVGSPGPNGAPGE
P02467	919	PGPNAPGEAGRD
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P02467	934	PGNDGPPGRDGAP
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P02467	949	KGERGAPGNPGPS
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P02467	954	APGNPGPSGALGA
P02467	961	SGALGAPGPHGQV
P02467	963	ALGAPGPHGQVGP
P02467	969	PHGQVGPSGKPGN
P02467	973	VGPSGKPGNRGDP
P02467	979	PGNRGDGPVGPV
P02467	981	NRGDGPVGPVGP
P02467	984	DPGPVGVPVPAGA
P02467	987	PVGPVGPAFAFGP
P02467	993	PAGAFGPRGLAGP

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P02467	999	PRGLAGPQGPRGE
P02467	1009	RGEKGE PGDKGHR
P02467	1018	KGHRGL PGLKGHN
P02467	1030	NGLQGL PGLAQOH
P02467	1041	QHGDQGP PGNNGP
P02467	1042	HGDQGP PGNNGPA
P02467	1047	PPGNNGPAGPRGP
P02467	1050	NNGPAGPRGPPGP
P02467	1053	PAGPRGP PGPSGP
P02467	1056	PRGPPG PSGP PGK
P02467	1059	PPGPSGP PGKDGR
P02467	1060	PGPSGP PGKDGRN
P02467	1069	DGRNGL PGPIGPA
P02467	1071	RNGLPGPIGPAGV
P02467	1074	LPGPPIGPAGVRGS
P02467	1086	SHGSQGPAGPPGP
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P02467	1124	DQPSLRPKDYEVD
P02467	1146	IETLLTPEGSKKN
P02467	1165	DLRLSHPEWSSGF
P02467	1176	GFYWIDPNQGCTA
P02467	1206	ASLEDIPTKTWYV
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P02467	1332	EYRTNKPSRLPIL
P02467	1336	NKPSRLPILDIAP
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P05539	33	DARKLGPKGQKGE
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P05539	58	PPGPQG PAGEQGP
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P05539	94	TPGNPGPPGPPGP
P05539	134	MGVMQGP MGPMGP
P05539	137	MQGPMGPMGPRGP
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P05539	165	PGE PGE PGVSGPI
P05539	183	PGPAGK PGDDGEA
P05539	192	DGEAGK PGKAGER
P05539	201	AGERGL PGPQGAR
P05539	216	PGTPGL PGVKGHR
P05539	225	KGHRGY PGLDGAK
P05539	237	KGEAGAPGVKGES
P05539	246	KGESGS PGENGSP
P05539	252	PGENGSPGPMGPR
P05539	254	ENGSPGPMGPRGL

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P05539	261	MGPRGLPGERGRT
P05539	269	ERGRTGPAAGA
P05539	282	RGNDGQPGPAGPP
P05539	284	NDGQPGPAGPPGP
P05539	287	QPGPAGPPGPVGP
P05539	288	PGPAGPPGPVGP
P05539	290	PAGPPGPVGPAGG
P05539	297	VGPAGGPGFLGAP
P05539	303	PGFLGAPGAKGEA
P05539	311	AKGEAGPTGARGP
P05539	317	PTGARGPEGAQGS
P05539	327	QGSRGEPGNPGSP
P05539	330	RGEPPGNPGSPGPA
P05539	333	PGNPGSPGPAGAS
P05539	335	NPGSPGPAGASGN
P05539	342	AGASGNPGTDGIP
P05539	348	PGTDGIPGAKGSA
P05539	357	KGSAGAPGIAGAP
P05539	372	PGPRGPPGPQGAT
P05539	374	PRGPPGPQGATGP
P05539	380	PQGATGPLGPKGQ
P05539	383	ATGPLGPKGQTGE
P05539	390	KGQTGEPIAGFK
P05539	401	FKGEQGPKGETGP
P05539	407	PKGETGPAGPQGA
P05539	414	AGPQGA PGPAGEE
P05539	429	RGARGE PGGAGPI
P05539	437	GAGPIGP PGERGA
P05539	438	AGPIGP PGERGAP
P05539	444	PGERGAPGNRGFP
P05539	450	PGNRGFPQDGLA
P05539	458	QDGLAGPKGAPGE
P05539	462	AGPKGAPGERGPS
P05539	467	APGERGPSGLAGP
P05539	473	PSGLAGPKGANGD
P05539	480	KGANGDPGRPGEP
P05539	483	NGDPGRPGEPLP
P05539	486	PGRPGEPLPGAR
P05539	489	PGEPLPGARGLT
P05539	498	RGLTGRPGDAGPQ
P05539	503	RPGDAGPQKVG
P05539	509	PQKVGPSGAPGE
P05539	513	VGPSGAPGEDGRP
P05539	519	PGEDGRP PPGPQ
P05539	521	EDGRP PPGPQGA
P05539	522	DGRP PPGPQGAR
P05539	531	QGARGQPGVMGFP
P05539	537	PGVMGFPGPKGAN
P05539	546	KGANGE PGKAGEK
P05539	558	KGLAGAPGLRGLP
P05539	564	PGLRGLPGKDGET
P05539	576	TGAAGPPGPSGPA
P05539	591	RGEQGA PGPSGFQ
P05539	593	EQGAPGPSGFQGL
P05539	600	SGFQGLPGPPGPP
P05539	603	QGLPGP PPGPEG
P05539	606	PGPPGP PPEGGKQ
P05539	618	QGDQGI PGEAGAP
P05539	629	APGLVGPRGERGF

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P05539	636	RGERGF <b>P</b> GERGSP
P05539	642	PGERGS <b>P</b> GAQGLQ
P05539	650	AQGLQG <b>P</b> RGLPGT
P05539	654	QGPRGL <b>P</b> GTPGTD
P05539	657	RGLPGT <b>P</b> GTDGPK
P05539	662	TPGTDG <b>P</b> KGAAGP
P05539	668	PKGAAG <b>P</b> DGPPGA
P05539	671	AAGPDG <b>P</b> PGAQGP
P05539	672	AGPDGP <b>P</b> GAQGPP
P05539	677	PPGAQG <b>P</b> PGLQGM
P05539	678	PGAQGP <b>P</b> PGLQGMP
P05539	684	PGLQGM <b>P</b> GERGAA
P05539	695	AAGIAG <b>P</b> KGDRGD
P05539	707	DVGEKG <b>P</b> EGAPGK
P05539	711	KGPEGAP <b>P</b> KDGGR
P05539	726	TGPIGP <b>P</b> GPAGAN
P05539	740	EKGEVG <b>P</b> PGPSGS
P05539	741	KGEVGP <b>P</b> PGPSGST
P05539	743	EVGPPG <b>P</b> SGSTGA
P05539	753	TGARGA <b>P</b> GERGET
P05539	761	ERGETG <b>P</b> PGPAGF
P05539	762	RGETGP <b>P</b> GPAGFA
P05539	777	PGADGQ <b>P</b> GAKGDQ
P05539	795	KGDAGAP <b>P</b> GPQGPS
P05539	797	DAGAPG <b>P</b> QGPSGA
P05539	804	QGPSGAP <b>P</b> GPQGPT
P05539	806	PSGAPG <b>P</b> QGP TG V
P05539	809	APGPQG <b>P</b> TGVTGP
P05539	815	PTGVTG <b>P</b> KGARGA
P05539	825	RGAQGP <b>P</b> GATGFP
P05539	840	AGRVGP <b>P</b> GSNGNP
P05539	846	PGSNGN <b>P</b> GPAGPP
P05539	848	SNGNPG <b>P</b> AGPPGP
P05539	870	RGDTGA <b>P</b> GRAGDP
P05539	876	PGRAGD <b>P</b> PGLQGPA
P05539	881	DPGLQG <b>P</b> PAGAPGE
P05539	885	QGPAGAP <b>P</b> GEEKGEP
P05539	891	PGEKGE <b>P</b> GDDGPS
P05539	896	EPGDDG <b>P</b> SGSDGP
P05539	902	PSGSDG <b>P</b> PGPQGL
P05539	903	SGSDGP <b>P</b> GPQGLA
P05539	905	SDGPPG <b>P</b> QGLAGQ
P05539	918	RGIVGL <b>P</b> GQRGER
P05539	927	RGERGF <b>P</b> PGLPGPS
P05539	930	RGFPGL <b>P</b> GPSGEP
P05539	936	PGPSGE <b>P</b> GKQGAP
P05539	942	PGKQGA <b>P</b> GASGDR
P05539	951	SGDRGP <b>P</b> GPVGPP
P05539	957	PGPVGP <b>P</b> PGLTGPA
P05539	962	PPGLTG <b>P</b> PAGEPGR
P05539	966	TGPAGE <b>P</b> GREGSP
P05539	972	PGREGS <b>P</b> GADGPP
P05539	999	TGALGA <b>P</b> GAPGPP
P05539	1002	LGAPGA <b>P</b> GPPGSP
P05539	1004	APGAPG <b>P</b> PGSPGP
P05539	1005	PGAPGP <b>P</b> GSPGPA
P05539	1008	PGPPGS <b>P</b> GPAGPT
P05539	1010	PPGSPG <b>P</b> AGPTGK
P05539	1013	SPGPAG <b>P</b> TGKQGD

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P05539	1031	AQGPMG <b>P</b> SGPAGA
P05539	1056	KGEAGE <b>P</b> GERGLK
P05539	1074	TGLQGL <b>P</b> GPPGPS
P05539	1077	QGL <b>P</b> G <b>P</b> GPSGDQ
P05539	1079	LP <b>G</b> PP <b>P</b> SGDQGT
P05539	1088	DQGTSG <b>P</b> AGPSGP
P05539	1091	TS <b>G</b> PAG <b>P</b> SGPRGP
P05539	1094	PAGPS <b>G</b> PRGPPGP
P05539	1103	PPGPV <b>G</b> PSGKDGS
P05539	1113	DGSNGI <b>P</b> GPIGPP
P05539	1119	PGPI <b>G</b> PPGPRGRS
P05539	1130	RSGET <b>G</b> PAGPPGN
P05539	1137	AGPPGN <b>P</b> GPPGPP
P05539	1146	PGPP <b>G</b> PPGPGIDM
P05539	1148	PPGPP <b>G</b> PGIDMSA
P05539	1165	GQREK <b>G</b> PDPLQYM
P05539	1167	REKGP <b>D</b> PLQYMRA
P05539	1204	IESIRS <b>P</b> DGSRKN
P05539	1211	DGSRKN <b>P</b> ARTCQD
P05539	1223	DLKLCH <b>P</b> EWKSGD
P05539	1258	GESCV <b>P</b> NPATVP
P05539	1260	SCV <b>P</b> NPATVPRK
P05539	1264	PNPATV <b>P</b> RKNWWS
P05539	1300	GDGNLA <b>P</b> NTANVQ
P05539	1393	QKTSRL <b>P</b> IVDIAP
P05539	1399	PIVDIA <b>P</b> MDIGGP
P05539	1405	PMDIG <b>G</b> PDQEFQV
P05997	10	NWAEAR <b>P</b> LLILIV
P05997	56	NRDIWK <b>P</b> APCQIC
P05997	85	VLDCAD <b>P</b> VTTPGE
P05997	88	CADPVT <b>P</b> PGECCP
P05997	89	ADPVT <b>P</b> PGECCPV
P05997	94	PPGECC <b>P</b> VCSQTP
P05997	100	PVCSQ <b>T</b> PGGGNTN
P05997	118	KGQK <b>G</b> E <b>P</b> GLVPVV
P05997	122	GEPGLV <b>P</b> VVTGIR
P05997	131	TGIRGR <b>P</b> GPAGPP
P05997	133	IRGR <b>P</b> GPAGPPGS
P05997	136	RPGPAG <b>P</b> PGSQGP
P05997	137	PGPAG <b>P</b> PGSQGPR
P05997	142	PPGSQ <b>G</b> PRGERGP
P05997	148	PRGER <b>G</b> PKGRPGP
P05997	152	RGPKGR <b>P</b> GPRGPQ
P05997	154	PKGR <b>P</b> GPRGPQGI
P05997	157	RPGPR <b>G</b> PQGIDGE
P05997	164	QGID <b>G</b> EPGVPGQP
P05997	167	DGE <b>P</b> GVPGQPGAP
P05997	170	PGV <b>P</b> GQPGAPGPP
P05997	175	QPGAP <b>G</b> PPGHPSH
P05997	176	PGAP <b>G</b> PPGHPSHP
P05997	179	PGPP <b>G</b> HPSHGPDP
P05997	182	PGHPS <b>H</b> PGPDGLS
P05997	184	HPSHP <b>G</b> PDGLSRP
P05997	190	PDGLSR <b>P</b> FSAQMA
P05997	212	SQVGL <b>M</b> PGSVGPV
P05997	217	MPGS <b>V</b> G <b>P</b> VGPRGP
P05997	220	SVGP <b>V</b> GPRGPQGL
P05997	223	PVGPR <b>G</b> PQGLQGQ
P05997	235	QQGG <b>A</b> G <b>P</b> TGPPGE

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P05997	238	GAGPTGPPGEPGD
P05997	239	AGPTGPPGEPGDP
P05997	242	TGPPGEPGDPGPM
P05997	245	PGEPGDGPMPGI
P05997	259	SRGPEGPPGKPGE
P05997	260	RGPEGPPGKPGED
P05997	263	EGPPGKPGEDGE
P05997	269	PGEDGEPPGRNGNP
P05997	275	PGRNGNPGEVGFA
P05997	284	VGFAGPSGARGFP
P05997	290	PGARGFPAGPLP
P05997	293	RGFPAGPLPGLK
P05997	310	HKGLEGPKEVGGA
P05997	317	KGEVGAPGSKGEA
P05997	325	SKGEAGPTGPMGA
P05997	328	EAGPTGPMGAMGP
P05997	334	PMGAMGPLGPRGM
P05997	337	AMGPLGPRGMPGE
P05997	341	LGPRGMPGERGRL
P05997	349	ERGRLGPGAPGQ
P05997	353	LGPGAGPGQGAH
P05997	362	RGAHGMPGKPGPM
P05997	365	HGMPGKPGPMGPL
P05997	367	MPGKPGPMGPLGI
P05997	370	KPGPMGPLGIPGS
P05997	374	MGPLGIPGSSGFP
P05997	380	PGSSGFPGNPGMK
P05997	383	SGFPGNPGMKGEA
P05997	409	QRGETGPPGPVGS
P05997	410	RGETGPPGPVGSP
P05997	412	ETGPPGPVGSPGL
P05997	416	PGPVGSPGLPGAI
P05997	419	VGSPGLPGAIGTD
P05997	428	IGTDGTPGAKGPT
P05997	433	TPGAKGPTGSPGT
P05997	437	KGPTGSPGTSGPP
P05997	442	SPGTSGPPGSAGP
P05997	443	PGTSGPPGSAGPP
P05997	448	PPGSAGPPGSPGP
P05997	449	PGSAGPPGSPGPQ
P05997	452	AGPPGSPGPQGST
P05997	454	PPGSPGPQGSTGP
P05997	460	PQGSTGPQGIRGQ
P05997	467	QGIRGQPGDPGVP
P05997	470	RGQPGDPGVPGFK
P05997	473	PGDPGVPGFKGEA
P05997	485	AGPKGEPGPHGIQ
P05997	487	PKGEPGPHGIQGP
P05997	493	PHGIQGPIGPPGE
P05997	496	IQGPIGPGEEGK
P05997	497	QGPIGPGEEGKR
P05997	505	EEGKRGRGDPGT
P05997	509	RGPRGDPGTVGPP
P05997	514	DPGTVGPPGPVGE
P05997	515	PGTVGPPGPVGER
P05997	517	TVGPPGPVGERGA
P05997	536	PGSDGLPGPKGAQ
P05997	538	SDGLPGPKGAQGE
P05997	547	AQGERGPVGSSGP

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P05997	553	PVGSSGPKGSQGD
P05997	578	RGLTGNPGVQGPE
P05997	583	NPGVQGPPEGKLG
P05997	589	PEGKLGPLGAPGE
P05997	601	EDGRPGPPGSIGI
P05997	602	DGRPGPPGSIGIR
P05997	611	IGIRGQPGSMGLP
P05997	617	PGSMGLPGPKGSS
P05997	619	SMGLPGPKGSSGD
P05997	626	KGSSGDPGKPGEA
P05997	629	SGDPGKPGEAGNA
P05997	638	AGNAGVPGQRGAP
P05997	644	PGQRGAPGKDGEV
P05997	652	KDGEVGPSPVGP
P05997	655	EVGPSGPVGPPL
P05997	658	PSGPVGPPLAGE
P05997	659	SGPVGPPLAGER
P05997	692	PGEKGKPGDQGV
P05997	698	PGDQGVPGDPGAV
P05997	701	QGVPGDPGAVGPL
P05997	706	DPGAVGPLGPRGE
P05997	709	AVGPLGPRGERGN
P05997	722	PGERGEPGITGLP
P05997	728	PGITGLPGEKGMA
P05997	739	MAGGHGPDGPKGS
P05997	742	GHGPDGPKGSPGP
P05997	746	DGPKGSPGPSGTP
P05997	748	PKGSPGPSGTPGD
P05997	752	PGPSGTPGDTGPP
P05997	757	TPGDTGPPLQGM
P05997	773	RGIAGTPGPKGDR
P05997	775	IAGTPGPKGDRGG
P05997	800	DGARGLPGPLGPP
P05997	802	ARGLPGPLGPPGP
P05997	805	LPGPLGPPLGAGP
P05997	808	PLGPPGPAGPTGE
P05997	811	PPGPAGPTGEKGE
P05997	818	TGEKGEPPRGLV
P05997	820	EKGEPGPRGLVGP
P05997	826	PRGLVGPGPSRGN
P05997	827	RGLVGPGPSRGNP
P05997	833	GPSRGNGPSRGEN
P05997	841	SRGENGPTGAVGF
P05997	850	AVGFAGPQGPDGQ
P05997	853	FAGPQGPDGQPGV
P05997	857	QGPDGQPGVKGEP
P05997	863	PGVKGEPGEPGQK
P05997	866	KGEPGEPGQKGDA
P05997	875	KGDAGSPGPQGLA
P05997	877	DAGSPGPQGLAGS
P05997	884	QGLAGSPGPHGPN
P05997	886	LAGSPGPHGPNGV
P05997	889	SPGPHGPNGVPGL
P05997	893	HGPNGVPGLKGGR
P05997	904	GRGTQGPATGF
P05997	931	APGPAGPLGEPGK
P05997	935	AGPLGEPGKEGPP
P05997	940	EPGKEGPGLRGD
P05997	941	PGKEGPPGLRGDP

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P05997	947	PGLRGD <b>P</b> SGHGRV
P05997	958	RVGDRG <b>P</b> AGPPGG
P05997	961	DRGPAG <b>P</b> PGGPGD
P05997	962	RGPAG <b>P</b> PGGPGDK
P05997	965	AGPPGG <b>P</b> GDKGDP
P05997	971	PGDKGD <b>P</b> GEDGQP
P05997	977	PGEDGQ <b>P</b> PGDGPP
P05997	982	QPGPDG <b>P</b> PGPAGT
P05997	983	PGPDGP <b>P</b> GPAGTT
P05997	985	PDGPPG <b>P</b> AGTTGQ
P05997	1010	RGMPGL <b>P</b> GPAGTP
P05997	1012	MPGLPG <b>P</b> AGTPGK
P05997	1016	PGPAGT <b>P</b> GKVGPT
P05997	1021	TPGKVG <b>P</b> TGATGD
P05997	1030	ATGDKG <b>P</b> PGPVGP
P05997	1033	DKGPPG <b>P</b> VGPPTS
P05997	1036	PPGPVG <b>P</b> PGSNGP
P05997	1037	PGPVGP <b>P</b> GSNGPV
P05997	1042	PPGSNG <b>P</b> VGEPPG
P05997	1046	NGPVGE <b>P</b> GPEGPA
P05997	1048	PVGEPP <b>P</b> EGPAGN
P05997	1051	EPGPEG <b>P</b> AGNDGT
P05997	1058	AGNDGT <b>P</b> GRDGAV
P05997	1073	RGDRGD <b>P</b> GPAGLP
P05997	1075	DRGDGP <b>P</b> AGLPGS
P05997	1079	PGPAGL <b>P</b> GSQGAP
P05997	1085	PGSQGA <b>P</b> GTPGPV
P05997	1088	QGAPGT <b>P</b> GPVGAP
P05997	1090	APGTPG <b>P</b> VGAPGD
P05997	1094	PGPVGA <b>P</b> GDAGQR
P05997	1103	AGQRGD <b>P</b> GSRGPI
P05997	1108	DPSRG <b>P</b> IGPPGR
P05997	1111	SRGPIG <b>P</b> PGRAGK
P05997	1112	RGPIGP <b>P</b> PGRAGK
P05997	1123	KRGLPG <b>P</b> QGPRGD
P05997	1126	LPGPQG <b>P</b> RGDKGD
P05997	1159	LPGPPG <b>P</b> NGEQGS
P05997	1169	QGSAGI <b>P</b> GPFGPR
P05997	1171	SAGIPG <b>P</b> FGPRGP
P05997	1174	IPGPFG <b>P</b> RGPPGP
P05997	1178	FGPRGP <b>P</b> GPVGPS
P05997	1190	SGKEGN <b>P</b> GPLGPI
P05997	1192	KEGNPG <b>P</b> LGPIGP
P05997	1195	NPGPLG <b>P</b> IGPPGV
P05997	1198	PLGPIG <b>P</b> PGVRGS
P05997	1199	LGPIGP <b>P</b> PGVRGS
P05997	1210	SVGEAG <b>P</b> EGPPGE
P05997	1213	EAGPEG <b>P</b> PGEPGP
P05997	1225	PPGPPG <b>P</b> PGHLTA
P05997	1226	PGPPGP <b>P</b> PGHLTA
P05997	1245	HYDESM <b>P</b> DPLPEF
P05997	1247	DESM <b>P</b> DPLPEFTE
P05997	1249	SMPDPL <b>P</b> EFTEDQ
P05997	1258	TEDQA <b>P</b> DDKNKT
P05997	1266	DKNKTD <b>P</b> GVHATL
P05997	1285	IETMRS <b>P</b> DGSKKH
P05997	1292	DGSKKH <b>P</b> ARTCDD
P05997	1315	GEYWID <b>P</b> NQGSVE
P05997	1341	TCISAN <b>P</b> SSVPRK

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P05997	1345	ANPSSVPRKTWWA
P05997	1355	WWASKSPDNKPVW
P05997	1359	KSPDNKPVWYGLD
P05997	1380	YGDHQSNTAITQ
P05997	1473	QNVARLPIIDLAP
P05997	1479	PIIDLAPVDVGGT
P05997	1495	FGVEIGPVCFV@@
P12108	6	@MAHRSPALCLLL
P12108	26	LAQLRGPPGEPGP
P12108	27	AQLRGPPGEPGPR
P12108	30	RGPPGEPGPRGPP
P12108	36	PGPRGPPGPPGVP
P12108	39	RGPPGPPGVPGAD
P12108	42	PGPPGVPGADGID
P12108	54	DGDKGS PGAPGSP
P12108	57	KGSPGAPGSPGAK
P12108	60	PGAPGSPGAKGEP
P12108	66	PGAKGEPGAPGPD
P12108	69	KGEPGAPGPDGPP
P12108	71	EPGAPGPDGPPGK
P12108	74	APGPDGPPGKPGL
P12108	75	PGPDGPPGKPGLD
P12108	78	DGPPGKPGLDGLT
P12108	92	AKGSRGPWGGQGL
P12108	102	QGLKGQPGLPGPP
P12108	108	PGLPGPPGLPGPS
P12108	111	PGPPGLPGPSLPG
P12108	113	PPGLPGPSLPGPP
P12108	116	LPGPSLPGPPGLP
P12108	118	GPSLPGPPGLPGQ
P12108	119	PSLPGPPGLPGQV
P12108	122	PGPPGLPGQVGLP
P12108	128	PGQVGLPGEIGVP
P12108	134	PGEIGVPGPKGDP
P12108	136	EIGVPGPKGDGP
P12108	140	PGPKGDGPDGPR
P12108	142	PKGDGPDGPRGP
P12108	152	RGPPGPPGKPGPP
P12108	155	PGPPGKPGPPGHI
P12108	157	PPGKPGPPGHIQG
P12108	173	SADFLCPTNCPPG
P12108	177	LCPTNCPGPKGP
P12108	180	TNCPPGPKGPQGL
P12108	183	PPGPKGPQGLQGL
P12108	196	KGHRGRPGALGEP
P12108	202	PGALGEPGQQGKQ
P12108	210	QQGKQGPKGDVGV
P12108	223	SGEQGVPGPPGPQ
P12108	225	EQGVPGPPGPQGQ
P12108	226	QGVPGPPGPQQR
P12108	228	VPGPPGPQGQRGY
P12108	235	QQQRGYPGMAGPK
P12108	240	YPMAGPKGETGP
P12108	246	PKGETGPAGYKGM
P12108	262	IGAAGRPGREGPK
P12108	267	RPGREGPKGPPGD
P12108	270	REGPKGPPGDPGE
P12108	271	EGPKGPPGDPGEK
P12108	274	KGPPGDGPEKGEL

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P12108	288	GRGIRGPQGDIGP
P12108	294	PQGDIGPKGDMGL
P12108	301	KGDMGLPGIDGKD
P12108	310	DGKDGTPGIPGVK
P12108	313	DGTPGI PGVKGT A
P12108	322	KG TAGQ PGRPGPP
P12108	325	AGQPGRPGPPGHR
P12108	327	QPGRPGPGHRGQ
P12108	328	PGRPGPGHRGQA
P12108	337	RGQAGLPGQPGSK
P12108	340	AGLPGQPGSKGGP
P12108	346	PGSKGGPGDKGEV
P12108	364	QGITGT PGLDGE P
P12108	370	PGLDGEPGPPGDA
P12108	372	LDGE PGPGDAGT
P12108	373	DGE PGPGDAGTA
P12108	382	AGTAGV PGLKGDR
P12108	393	DRGERG PVGAPGE
P12108	397	RGPVGAPGEAGQS
P12108	405	EAGQSGPKGEQGP
P12108	411	PKGEQGP PGIPGP
P12108	412	KGEQGP PGIPGPQ
P12108	415	QGPPGI PG PQGLP
P12108	417	PPGIPGPQGLPGV
P12108	421	PG PQGL PGVKGD K
P12108	430	KGDKGS PGKTGPK
P12108	435	SPGKTG PKGSTGD
P12108	442	KGSTGD PGVHGLA
P12108	460	KGESGE PGPKGQQ
P12108	462	ESGE PG PKGQQGI
P12108	475	QGELGF PGPSGDA
P12108	477	ELGF PGPSDAGS
P12108	484	SGDAGS PGVRGYP
P12108	490	PGVRGY PGPPGPR
P12108	492	VRGY PGPPGPRGL
P12108	493	RGYP GP PGPRGLL
P12108	495	YPGPPG PRGLLGE
P12108	505	LGERGV PGMPGQR
P12108	508	RGVPGM PGQRGVA
P12108	555	GVGAMG PGPPGP
P12108	556	VGAMG PGPPGPP
P12108	558	AMGPPG PGPPGP
P12108	564	PPGPPG PG EQGL
P12108	565	PGPPGP PG EQGLH
P12108	573	EQGLHG PMGPRGV
P12108	576	LHGPMG PRGVPGL
P12108	580	MGPRGV PGLLGAA
P12108	594	QIGNIG PKGKRGE
P12108	612	DTGRGH PGMPGPP
P12108	615	RGHPGM PGPPGIP
P12108	617	HPGMPG PGIPGL
P12108	618	PGMPGP PGIPGLP
P12108	621	PGPPGI PGLPGIP
P12108	624	PGIPGL PGIPGHA
P12108	627	PGLPGI PGHALAG
P12108	640	KDGERG PGVPGD
P12108	641	DGERGP PGVPGDA
P12108	644	RGPPGV PGDAGRP
P12108	650	PGDAGR PGSPGPA

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P12108	653	AGRPGSPGPAGLP
P12108	655	RPGSPGPAGLPGF
P12108	659	PGPAGLPGFCEPA
P12108	664	LPGFCEPAACLG
P12108	672	ACLGALPTPRHG@
A6YR20	15	VLLLLLLPYGDLIT
A6YR20	34	AARKVTPWRRNLK
Q05707	14	MRYWLLPPFLAIV
Q05707	15	RYWLLPPFLAIVY
Q05707	32	VQGQVAPPTRLRY
Q05707	33	QGQVAPPTRLRYN
Q05707	53	QISWKA PRGKF GG
Q05707	66	YKLLVTPTSGGKT
Q05707	91	IIQGLMPDQNYTV
Q05707	110	KDKESKPAQGQFR
Q05707	126	LEKRKDPKPRVKV
Q05707	128	KRKDPKPRVKVVD
Q05707	141	RGNGSRPSSPEEV
Q05707	144	GSRPSSPEEVKFV
Q05707	154	KFVCQT PAIADIV
Q05707	206	AQYSGDPRIEWHL
Q05707	229	EAVRNLPYKGGNT
Q05707	251	FENSFKPEAGSRT
Q05707	277	SQDDII PPSRNL R
Q05707	278	QDDII PPSRNL RE
Q05707	309	QEIASEPDSTHVY
Q05707	355	AHAITGPTELIT
Q05707	356	HAITGPTELITS
Q05707	377	VNWT HAPGNVEKY
Q05707	389	YRVVYYPTRGGKP
Q05707	395	PTRGGKPDEVVVD
Q05707	444	ETTLALPMASDLL
Q05707	467	VKWDAPGASGYL
Q05707	478	YLILYAPLTEGLA
Q05707	506	ELSGLLPNTEYTV
Q05707	525	GEEASDPVTGQET
Q05707	537	TTLALSPPRNLRI
Q05707	538	TLALSPPRNLRI S
Q05707	557	ARLTWDPTSRQIN
Q05707	584	NEVEVDPIITTFPL
Q05707	589	DPITTFPLKGLTP
Q05707	595	PLKGLTPLTEYTI
Q05707	614	DEGQSEPLTGVFT
Q05707	625	FTTEEVP AQQYLE
Q05707	646	FRVTWHPLSADEG
Q05707	660	HKLMWI PVYGGKT
Q05707	685	VIEGLEPGTEYEV
Q05707	720	DSFWTEPATTIVP
Q05707	726	PATTIVPTTSVTS
Q05707	776	MTAQGDPEEEVIG
Q05707	787	IGTVMVPGSQNNL
Q05707	797	NNLLLKPLLPDTE
Q05707	800	LLKPLL PDTEYKV
Q05707	810	YKVTVTPIYTDGE
Q05707	823	GVSVSAPGKTLPS
Q05707	828	APGKTL PSSGPQN
Q05707	832	TLPSSGPQNLRVS
Q05707	851	LRITWDPPSSPVK
Q05707	852	RITWDPSSSPVKG

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Q05707	855	WDPSSPVKGYRI
Q05707	865	YRIVYKPVSVPGP
Q05707	869	YKPVSVPGPTLET
Q05707	871	PVSVPGPTLETFFV
Q05707	979	CFYGLQPDSEYKI
Q05707	997	LQEIEGPSVSIME
Q05707	1009	EKTQSLPTRPPTF
Q05707	1012	QSLPTRPPTFPPT
Q05707	1013	SLPTRPPTFPPTI
Q05707	1016	TRPPTFPPTIPPA
Q05707	1017	RPPTFPPTIPPAK
Q05707	1020	TFPPTIPPAKEVC
Q05707	1021	FPPTIPPAKEVCK
Q05707	1081	VQFTDDPRTEFKL
Q05707	1135	GTRRGI PKVIVVI
Q05707	1184	VSIGSKPSARHVF
Q05707	1218	TASATCPVVHKDG
Q05707	1253	EGVSMEPGTFNVF
Q05707	1260	GTFNVFPCYQLHK
Q05707	1273	DALVSQPTRYLHP
Q05707	1279	PTRYLHPEGLPSD
Q05707	1283	LHPEGLPSDYTIS
Q05707	1296	FLFRILPDTPQEP
Q05707	1299	RILPDTQEPFAL
Q05707	1302	PDTPQEPFALWEI
Q05707	1315	LNKNSDPLVGVIL
Q05707	1347	TVTFEGPEIRKIF
Q05707	1406	MVRSRGP GNSAP
Q05707	1412	PGNSAPFQLQMF
Q05707	1436	DKCCELPGLRDDE
Q05707	1445	RDDESCPDLPHSC
Q05707	1448	ESCPDLPHSCSCS
Q05707	1463	NEVALGPAGPPGG
Q05707	1466	ALGPAGPPGGPGL
Q05707	1475	GPGLRGPKGQQGE
Q05707	1484	QQGEPGPKGPDGP
Q05707	1487	EPGPKGPDGPRGE
Q05707	1499	EIGLPGPQGPPGP
Q05707	1508	PPGPQGPSGLSIQ
Q05707	1534	DTGLPGPQGIPGG
Q05707	1564	KDGSSGPPGPPGP
Q05707	1567	SSGPPGPPGPIGI
Q05707	1570	PPGPPGPIGIPGT
Q05707	1588	ITGSMGPQALGP
Q05707	1594	PQALGP PGVPGA
Q05707	1655	IRTVQGPGEPR
Q05707	1673	APGEQGP GTPGF
Q05707	1711	GVGTQGPRGPPGP
Q05707	1714	TQGPRGPPGAGP
Q05707	1720	PPGPAGPSGESRP
Q05707	1737	PPGSPGPRGPPGH
Q05707	1740	SPGPRGPPGHLGV
Q05707	1749	HLGVPGPQGPGSQ
Q05707	1752	VPGPQGPGQPGY
Q05707	1761	QPGYCDPSSCSAY
Q05707	1772	AYGVRAPHDPQPE
Q05707	1774	GVRAPHDPQPEFT
Q05707	1777	APHPDQPEFTPVQ
Q05707	1781	DQPEFTPVQDELE

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B2KPN7	17	IFLVLFPMATLQL
B2KPN7	62	WEYHAHPKPNSEFW
Q6PSU2	44	ERANLRPCEQHLM
Q6PSU2	64	DSYGRDPYSPSQD
Q6PSU2	71	YSPSQDPYSPSQD
Q6PSU2	78	YSPSQDPDRDPY
Q6PSU2	83	DPDRDPYSPSPY
Q6PSU2	88	DPYSPSPYDRGA
Q6PSU2	149	RELRLNPQQCLR
Q6PSU2	157	QCGLRAPQRCDLE
P58786	28	QGDGDQPADRNAV
P58786	35	ADRNAVPRDDNPG
P58786	40	VPRDDNPGGASGK
P58787	40	VPRDDNPSGTDGK
P86256	2	@@@@@DPCCGYRM
P58808	5	@@MRCLPVLIILL
P58808	18	LLTASAPGVVVL
P58808	24	PGVVVLKTEDDV
P58808	31	KTEDDVPMSSVYG
P81755	18	LLIASAPCFDART
P81755	31	KTDDDVPLSSLRD
P69765	10	LLITSTPSVDARL
P69765	23	KAKDNMPLASFHD
P69765	46	INTRCCPGKPCR
B2CS62	27	KLIRTRPLMYHVC
D2Y171	69	APCCQHPIETCCR
D2Y168	23	IETEAGPVNEAGV
D2Y168	42	LVGRGCPADCPNT
D2Y168	46	GCPADCNTCDSS
P80762	5	@@NMYLPPVPPP
P80774	4	@@@QNQPPDFANP
P80774	5	@@QNQPPDFANPF
P80774	14	ANPFIIPQNAAA@
P86500	5	@@FELLPSQDRSC
P86500	52	YYFGCCPGYATCM
C4PWC4	70	LNRVCGPMCCPAS
C4PWC4	74	CGPMCCPASHCYC
P0CE29	40	NGLARYPQRGGRD
P0CE30	71	LTRMCGPMCCARS
B4YSU8	16	ALLLLLPLSTAQD
B4YSU8	69	VNSRCCPTTDGC@
P00057	7	ASFBZAPGBVKA
P00057	8	SFBZAPGBVKAG
P00057	38	AGHKQGNLNLGF
P00057	84	NPKKYIPGTMVF
P00057	91	GTMVFPGLKKPQ
P00057	96	FPGLKKPQDRADL
P15502	9	GLTAAAPRPGVLL
P15502	11	TAAAPRPGVLLLL
P15502	23	LLSILHPSRPGGV
P15502	26	ILHPSRPGGVPGA
P15502	30	SRPGGVPGAIPGG
P15502	34	GVPGAIPGGVPGG
P15502	38	AIPGGVPGGVFYP
P15502	44	PGGVFYPGAGLGA
P15502	58	GGGALGPGGKPLK
P15502	62	LGPGGKPLKPVPG
P15502	65	GGKPLKVPGGGLA
P15502	67	KPLKVPGGLAGA

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P15502	83	AGLGAFPAVTFPG
P15502	88	FPAVTFPGALVPG
P15502	93	FPGALVPGGVADA
P15502	130	SAGAVVPQPGAGV
P15502	132	GAVVPQPGAGVKP
P15502	138	PGAGVKPGKVPGV
P15502	142	VKPGKVPGVGLPG
P15502	147	VPGVGLPGVYPGG
P15502	151	GLPGVYPGGVLP
P15502	156	YPGGVLPGARFPG
P15502	161	LPGARFPGVGVL
P15502	167	PGVGVLPGVPTGA
P15502	170	GVLPGVPTGAGVK
P15502	177	TGAGVKPKAPGVG
P15502	180	GVKPKAPGVGGAF
P15502	194	GIPGVGPFGGPQP
P15502	198	VGPFGGPQPGVPL
P15502	200	PFGGPQPGVPLGY
P15502	203	GPQPGVPLGYPIK
P15502	207	GVPLGYPIKAPKL
P15502	211	GYPIKAPKLPGGY
P15502	214	IKAPKLPGGYGLP
P15502	220	PGGYGLPYTTGKL
P15502	227	YTTGKLPGYGP
P15502	232	LPYGYGPGGVAGA
P15502	245	AGKAGYPTGTGVG
P15502	252	TGTGVGPQAAAAA
P15502	275	GAAGVLPGVGGAG
P15502	290	GVPGAIPGIGGIA
P15502	301	IAGVGTAAAAAA
P15502	324	AAAGLVPGGPGFG
P15502	331	GGPGFGPGVVGVP
P15502	337	PGVVGVPAGVPG
P15502	352	VPGAGIPVVPAG
P15502	355	AGIPVVPAGIPG
P15502	365	IPGAAPGVVSPE
P15502	370	VPGVVSPEAAKA
P15502	387	AKYGARPGVGVGG
P15502	395	VGVGGIPTYGVGA
P15502	405	VGAGGFPFGVGV
P15502	421	PGVAGVPGVGGVP
P15502	433	PGVGGVPGVGISP
P15502	439	PGVGISPQAQAAA
P15502	465	VLGGLVPGPQAAV
P15502	467	GGLVPGPQAAVPG
P15502	472	GPQAAVPGVPGTG
P15502	475	AAVPGVPGTGGVP
P15502	486	VPGVGTAAAAAAK
P15502	504	AQFGLVPGVGVAP
P15502	510	PGVGVAPGVGVAP
P15502	546	PGVGVAPGIGPGG
P15502	550	VAPGIGPGGVAAA
P15502	589	GVGVGVPLGVGA
P15502	623	VRRSLSPELREGD
P15502	630	ELREGDPSSSQHL
P15502	637	SSSQHLPSTPSSP
P15502	640	QHLPSTPSSPRVP
P15502	643	PSTPSSPRVPGAL
P15502	646	PSSPRVPGALAAA

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P15502	662	KYGAAVPGVLGGL
P15502	685	GVVGAGPAAAAAA
P15502	720	VGGLGVPGVGGLG
P15502	729	GGLGGIPAAAAAK
P15502	730	GLGGIPAAAAAKA
P15502	755	GGAGQFPLGGVAA
P15502	763	GGVAARPGFGLSP
P15502	769	PGFGLSPIFPGGA
P15502	772	GLSPIFPGGACLG
A1X158	24	ASAVYHPPSWTAW
A1X158	25	SAVYHPPSWTAWI
A1X158	33	WTAWIAPKPWTAW
A1X158	35	AWIAPKPWTAWKV
A1X158	43	TAWKVHPPAWTAW
A1X158	44	AWKVHPPAWTAWK
A1X158	63	TAWKATPKPWTAW
A1X158	92	WTAWKAPPPPTWTA
A1X158	93	TAWKAPPPPTWTAW
A1X158	94	AWKAPPPPTWTAWK
A1X158	175	WKATPKPWTVWKA
A1X158	443	TAWRATPPPTWTA
A1X158	444	AWRATPPPTWTAW
A1X158	445	WRATPPPTWTAWH
A1X158	461	YGGYGKPGKPGKP
A1X158	464	YGKPGKPGKPGSK
A1X158	467	PGKPGKPGSKGPR
A1X158	472	KPGSKGPRGPAGP
A1X158	475	SKGPRGPAGPPGA
A1X158	478	PRGPAGPPGATGK
A1X158	479	RGPAGPPGATGKT
A1X158	496	ATGKRGP PGYPGK
A1X158	497	TGKRGP PGYPGKP
A1X158	503	PGYPGKPGVPGRN
A1X158	506	PGKPGVPGRNGYV
A1X158	557	WTAWTAPPAYG@@
Q16665	45	ELAHQLPLPHNVS
Q16665	47	AHQLPLPHNVSSH
Q16665	138	VFDFTHPCDHEEM
Q16665	208	DTNSNQPCGYKK
Q16665	215	QCGYKKPMTCLV
Q16665	216	CGYKKPMTCLVL
Q16665	226	LVLICEPIPHPSN
Q16665	228	LICEPIPHPSNIE
Q16665	230	CEPIPHPSNIEIP
Q16665	236	PSNIEIPLDSKTF
Q16665	267	ELMGYEPEELLGR
Q16665	332	NTKNSQPCIVCV
Q16665	363	TECVLKPVESDM
Q16665	394	DKLKKEPDALTLL
Q16665	429	QQLEEVPLYNDVM
Q16665	437	YNDVMLPSPNEKL
Q16665	439	DVMLPSPNEKLQN
Q16665	452	INLAMSPLPTAET
Q16665	454	LAMSPLPTAETPK
Q16665	459	LPTAETPKPLRSS
Q16665	461	TAETPKPLRSSAD
Q16665	468	LRSSADPALNQEV
Q16665	480	VALKLEPNPESLE
Q16665	482	LKLEPNPESLELS

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Q16665	492	ELSFTMPQIQDQT
Q16665	499	QIQDQTPSPSDGS
Q16665	501	QDQTPSPSDGSTR
Q16665	511	STRQSSPEPNSPS
Q16665	513	RQSSPEPNSPSEY
Q16665	516	SPEPNSPSEYCFY
Q16665	549	DTEAKNPFSTQDT
Q16665	567	MLAPYIPMDDDFQ
Q16665	582	SFDQLSPLESSSA
Q16665	590	ESSSASPESASPQ
Q16665	595	SPESASPQSTVTV
Q16665	610	QTQIQEPTANATT
Q16665	642	KILIASPSPTHIH
Q16665	644	LIASPSPTHIHKE
Q16665	658	TSATSSPYRDTQS
Q16665	669	QSRTASPNRAGKG
Q16665	685	QTEKSHPRSPNVL
Q16665	688	KSHPRSPNVLVA
Q16665	702	SQRTTVPEEELNP
Q16665	708	PEEELNPKILALQ
Q16665	741	GTLLQQPDDHAAT
Q16665	775	KTIILIPSDLACR
Q16665	793	MDESGLPQLTSYD
Q16665	805	DCEVNAPIQGSRN
Q9Y2N7	42	QLAHTLPFARGVS
Q9Y2N7	84	VGAGGEPLDACYL
Q9Y2N7	135	IFDFIHPCDQEEL
Q9Y2N7	147	LQDALTQQQTLNR
Q9Y2N7	159	RRKVEAPTERCFS
Q9Y2N7	200	HMRAYKPPAQTS
Q9Y2N7	201	MRAYKPPAQTS
Q9Y2N7	206	PPAQTS
Q9Y2N7	210	PAGSPDS
Q9Y2N7	214	TSPAGSPDSEPL
Q9Y2N7	215	GSPDSEPLQCLV
Q9Y2N7	215	SPDSEPLQCLVL
Q9Y2N7	227	LICEAIPHPGSLE
Q9Y2N7	229	CEAIPHPGSLEPP
Q9Y2N7	234	HPGSLEPLGRGA
Q9Y2N7	235	PGSLEPLGRGAF
Q9Y2N7	266	EVAGYSPDDLIGC
Q9Y2N7	329	VSGGRGPQSEIV
Q9Y2N7	363	EQHSRRPIQRGAP
Q9Y2N7	369	PIQRGAPSQKDT
Q9Y2N7	375	PSQKDTNP
Q9Y2N7	377	PGDSLDT
Q9Y2N7	384	GDSLDT
Q9Y2N7	386	PGPRILA
Q9Y2N7	394	SLDTPGPRILAFL
Q9Y2N7	395	ILAFLHPPSLSEA
Q9Y2N7	395	LAFLHPPSLSEAA
Q9Y2N7	406	AALAADPRRFCSP
Q9Y2N7	412	PRRFCSPDLRRL
Q9Y2N7	420	LRRLLGPILDGAS
Q9Y2N7	431	ASVAATPSTPLAT
Q9Y2N7	434	AATPSTPLATRHP
Q9Y2N7	440	PLATRHPQSPLSA
Q9Y2N7	443	TRHPQSPLSADLP
Q9Y2N7	449	PLSADLPDELPGV
Q9Y2N7	453	DLPDELPGVTENV
Q9Y2N7	509	NASEQLPRAYHRP

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Q9Y2N7	515	PRAYHRPLGAVPR
Q9Y2N7	520	RPLGAVPRPRARS
Q9Y2N7	522	LGAVPRPRARSFH
Q9Y2N7	532	SFHGLSPPALEPS
Q9Y2N7	533	FHGLSPPALEPSL
Q9Y2N7	537	SPPALEPSLLPRW
Q9Y2N7	541	LEPSLLPRWGSDP
Q9Y2N7	547	PRWGSDPRLSCSS
Q9Y2N7	554	RLSCSSPSRGDPS
Q9Y2N7	559	SPSRGDPASASSPM
Q9Y2N7	564	DPSASSPMAGARK
Q9Y2N7	591	ELLGVRPPKRSPS
Q9Y2N7	592	LLGVRPPKRSPSP
Q9Y2N7	596	RPPKRSPSPEHEN
Q9Y2N7	598	PKRSPSPPEHENFL
Q9Y2N7	607	ENFLLFPLSLSFL
Q9Y2N7	618	FLLTGGPAPGSLQ
Q9Y2N7	620	LTGGPAPGSLQDP
Q9Y2N7	626	PGSLQDPSTPLLN
Q9Y2N7	629	LQDPSTPLNLNE
Q9Y2N7	636	LLNLNEPLGLGPS
Q9Y2N7	641	EPLGLGPSLLSPY
Q9Y2N7	646	GPSLLSPYSDEDT
Q9Y2N7	655	DEDTTQPGGPFQP
Q9Y2N7	658	TTQPGGPFQPRAG
Q9Y2N7	661	PGGPFQPRAGSAQ
Q7XAD0	78	RHDSVLPPPSPKT
Q7XAD0	86	PSPKTDPIIGQLT
Q7XAD0	98	TTITTTPHHDDTV
Q7XAD0	107	DDTVAAPVGGRRH
Q7XAD0	108	DTVAAPVGGRRHD
Q7XAD0	124	SPPPPKPQDEQRQ
Q7XAD0	141	SSSSTLPLQASY@
Q93WP8	13	IYLILSPFGAEAR
Q93WP8	41	GRGANLPPPSPAS
Q93WP8	60	VSNSVSPTRTDEK
Q93WP8	91	NQLFSFPTSADNY
Q93WP8	113	FISYLLPVSYVWN
Q93WP8	147	RYWNRKPLSPSP
Q93WP8	155	SPPSPKPADGQRP
Q93WP8	161	PADGQRPLHSY@@
Q93WP7	13	IYLILSPFRAVSR
Q93WP7	89	NSNQLFPFLTSSD
Q93WP7	149	NRKPLSPSPKPA
Q93WP7	150	RKPLSPSPKPAD
Q93WP7	152	PLSPSPKPADGH
P01042	84	IKEGDCPVQSGKT
P01042	130	QTCQITPAEGPVV
P01042	134	ITPAEGPVVTAQY
P01042	148	CLGCVHPISTQSP
P01042	154	PISTQSPDLEPIL
P01042	158	QSPDLEPILRHGI
P01042	216	NFLFLTBDCKSLW
P01042	252	QNCDIYPGKDFVQ
P01042	259	GKDFVQPPTKICV
P01042	260	KDFVQPPTKICVG
P01042	268	KICVGCPRDIPTN
P01042	272	GCPRDIPTNSPEL
P01042	276	DIPTNSPELEETL

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P01042	359	AEVYVV <b>P</b> WEKKIY
P01042	366	WEKKIY <b>P</b> TVNCQP
P01042	372	PTVNCQ <b>P</b> LGMISL
P01042	382	ISLMKR <b>P</b> PGFSPF
P01042	387	RPPGFS <b>P</b> FRSSRI
P01042	404	EETTVS <b>P</b> PHTSMA
P01042	405	ETTVS <b>P</b> PHTSMAP
P01042	411	PHTSMA <b>P</b> AQDEER
P01042	534	SEDST <b>P</b> SAQTQE
P01042	545	QEKTEG <b>P</b> TPIPSL
P01042	547	KTEG <b>P</b> TPIPSLAK
P01042	549	EG <b>P</b> TPIPSLAKPG
P01042	554	IPSLAK <b>P</b> GVTVTF
P01042	574	LIATMM <b>P</b> PISPAP
P01042	575	IATMM <b>P</b> PISPAPI
P01042	578	MM <b>P</b> PISPAPIQSD
P01042	580	PPIS <b>P</b> APIQSDDD
P01042	589	SDDDWI <b>P</b> DIQIDP
P01042	595	PDIQID <b>P</b> NGLSFN
P01042	602	NGLSFN <b>P</b> ISDFPD
P01042	607	NPIS <b>P</b> DFD <b>T</b> TSPK
P01042	612	FPD <b>T</b> TSPK <b>C</b> PGRP
P01042	615	TTSP <b>K</b> CPGRPWKS
P01042	618	PKCPGR <b>P</b> WKSVSE
P01042	627	SVSEIN <b>P</b> TTQMKE
Q800F1	53	REAPER <b>P</b> PGFTPF
P14618	4	@@@MSK <b>P</b> HSEAGT
P14618	38	RLDIDS <b>P</b> PITARN
P14618	39	LDIDSP <b>P</b> ITARNT
P14618	53	IICTIG <b>P</b> ASRSVE
P14618	102	ESFASD <b>P</b> ILYRPV
P14618	107	DPILYR <b>P</b> VAVALD
P14618	117	ALDTKG <b>P</b> EIRTGL
P14618	212	KKGVNL <b>P</b> GAAVDL
P14618	219	GAAVDL <b>P</b> AVSEKD
P14618	302	DLGIEI <b>P</b> AEKVFL
P14618	323	CNRAGK <b>P</b> VICATQ
P14618	338	ESMIKK <b>P</b> RPTRA
P14618	340	MIKK <b>P</b> RPTRAEGS
P14618	371	TAKGDY <b>P</b> LEAVRM
P14618	446	QVARYR <b>P</b> RAPIIA
P14618	449	RYR <b>P</b> RAPIIAVTR
P14618	457	IAVTRN <b>P</b> QTARQA
P14618	471	LYRGIF <b>P</b> VLCCKDP
P14618	477	PVLCCKD <b>P</b> VQEAWA
P14618	517	VLTGWR <b>P</b> SGGFTN
Q9BPB1	26	LFQEKR <b>P</b> MKKIDF
Q9BPB2	26	VLQEKR <b>P</b> KEKIKF
P02820	4	@@@MRT <b>P</b> MLLALL
P02820	25	GRADAK <b>P</b> GDAESG
P02820	62	WLGAP <b>P</b> YPDPLE
P02820	64	GAP <b>P</b> YPDPLEPK
P02820	66	PAP <b>P</b> YPDPLEPKRE
P02820	69	YPDPLE <b>P</b> KREVCE
P02820	78	EVCELN <b>P</b> DCDELA
P02821	4	@@@YLA <b>P</b> GLGAPA
P84349	25	GQAGAK <b>P</b> SGAESS
P84349	49	SEVVKR <b>P</b> RRYLYQ
P80760	5	@@NYDK <b>P</b> PVEKPP

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P80760	10	KPPVEKPPVYKPP
P52285	40	IGESDSPIPLPNV
P52285	42	ESDSPIPLPNVTS
P52285	44	DSPIPLPNVTSTI
P52285	65	RHHHQHPS PQGDD
P52285	67	HHQHPS PQGDDKK
P52285	82	KRLDDI PPYDRDF
P52285	83	RLDDI PPYDRDFC
P52285	94	FCKVDQPTLFELI
P52285	110	NYLDIKPLLDVTC
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P84946	2	@@@@@KPPWRL@@
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Q9M0S4	51	PTPSITPTPTPTP
Q9M0S4	53	PSITPTPTPTPSA
Q9M0S4	55	ITPTPTPTPSATP
Q9M0S4	57	PTPTPTPSATPTA
Q9M0S4	61	PTPSATPTAAPVS
Q9M0S4	65	ATPTAAPVSPPAG
Q9M0S4	68	TAAPVSPAGSPL
Q9M0S4	69	AAPVSPAGSPLP
Q9M0S4	73	SPPAGSPLPSSAS
Q9M0S4	75	PAGSPLPSSASPP
Q9M0S4	80	LPSSASPPAPPTS
Q9M0S4	81	PSSASPPAPPTSL
Q9M0S4	83	SASPPAPPTSLTP
Q9M0S4	84	ASPPAPPTSLTPD
Q9M0S4	89	PPTSLT PDGAPVA
Q9M0S4	93	LTPDGAPVAGPTG
Q9M0S4	97	GAPVAGPTGSTPV
Q9M0S4	102	GPTGSTPVDNNNA
Q9LJD9	45	DAAMFVPALFASV
Q9STQ3	44	DASLAI PAFFASV
Q9LVC0	45	DASSFIPTFFASV
O82337	63	LTYLHPLDASSS
Q9SJY7	33	APTTVT PPPTALP
Q9SJY7	39	PPPTALPPVTAET
Q9SJY7	40	PPTALPPVTAETP
Q9SJY7	46	PVTAETPSPIASP
Q9SJY7	48	TAETPSPIASPPV
Q9SJY7	52	PSPIASPPVPVNE
Q9SJY7	53	SPIASPPVPVNEP
Q9SJY7	55	IASPPVPVNEPTP
Q9SJY7	59	PVPVNEPTPAPTT
Q9SJY7	61	PVNEPTPAPTTSP
Q9SJY7	63	NEPTPAPTTSPTT
Q9SJY7	67	PAPTTSPTTSPVA
Q9SJY7	71	TSPTTSPVASPPQ
Q9SJY7	75	TSPVASPPQTDAP
Q9SJY7	76	SPVASPPQTDAPA
Q9SJY7	81	PPQTDAPAGPSA
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Q9SJY7	91	PSAGLTPSSPAP

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Q9SJY7	95	LTPTSSPAPGPDG
Q9SJY7	97	PTSSPAPGPDGAA
Q9SJY7	99	SSPAPGPDGAADA
Q9SJY7	106	DGAADAPSAAWAN
Q9ZT16	43	PPPVATPPPVATP
Q9ZT16	44	PPVATPPPVATPP
Q9ZT16	45	PVATPPPVATPPP
Q9ZT16	55	PPPAATPAPATPP
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Q9ZT16	73	APATTTPSVAPSP
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Q9ZT16	87	DVPTASPPAPEGP
Q9ZT16	88	VPTASPPAPEGPT
Q9ZT16	90	TASPPAPEGPTVS
Q9ZT16	93	PPAPEGPTVSPSS
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Q9ZT16	101	VSPSSAPGPSDAS
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Q9ZT16	108	GPSDASPAPSAAF
Q9ZT16	110	SDASAPSAAFSN
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Q8LG54	48	PAATPAPTTPPPP
Q8LG54	52	PAPTTPPPAVSP
Q8LG54	53	APTTPPPAVSPA
Q8LG54	54	PTTTPPPAVSPAP
Q8LG54	58	PPPAVSAPTSSP
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Q8LG54	65	APTSSPPSSAPSP
Q8LG54	69	SPPSSAPSPSSDA
Q8LG54	71	PSSAPSPPSDAPT
Q8LG54	76	SPSSDAPTASPPA
Q8LG54	86	PPAPEGPGVSPGE
Q8LG54	90	EGPGVSPGELAPT
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Q8LG54	97	GELAPTPSDASAP
Q8LG54	103	PSDASAPPPNAAL
Q8LG54	104	SDASAPPPNAALT
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Q9C5S0	23	GVTGQAPTSPTTA
Q9C5S0	34	TATPAPTPTTPPP
Q9C5S0	36	TPAPTPTTPPPA
Q9C5S0	39	PPTPTTPPPAATP
Q9C5S0	40	PTPTTPPPAATPP
Q9C5S0	41	TPTTPPPAATPPP
Q9C5S0	45	PPPAATPPPVSA
Q9C5S0	46	PPAATPPPVSA
Q9C5S0	47	PAATPPPVSA
Q9C5S0	51	PPPVSA
Q9C5S0	52	PPPVSA
Q9C5S0	53	PVSAPPVTTSP
Q9C5S0	58	PPVTTSP
Q9C5S0	59	PVTTSP

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Q9C5S0	60	VTTSPPVTTAPP
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Q9C5S0	66	PVTTAPPANPPP
Q9C5S0	67	VTTAPPANPPPP
Q9C5S0	70	APPPANPPPVSS
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Q9C5S0	73	PANPPPVSSPPP
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Q9C5S0	78	PPVSSPPASPPP
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Q9C5S0	83	PPPASPPATPPP
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Q9C5S0	87	SPPPATPPPVASP
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Q9C5S0	120	APLASPPAQVPAP
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Q9C5S0	143	PSPSSPPLPSSD
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Q9C5S0	162	DSISPAPSP
Q9C5S0	164	ISPAPSP
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P02745	90	YPGPSGPLGARGI
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P02745	113	GNIKDQPRPAFSA
P02745	115	IKDQPRPAFSAIR
P02745	124	SAIRRNPMGGNV
P02745	125	AIRRNPMGGNVV
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P02745	156	RFVCTVPGYYYFT
P02745	221	VWVEKDPKKGHIY
P02747	5	@@MDVGPSLPHL
P02747	9	VGPSSLPHLGLKL
P02747	23	LLLLLLPLRGQAN
P02747	56	YDGLPGKGEPI
P02747	60	PGPKGEPGIPAIP

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P02747	66	PGIPAI <b>P</b> GIRGPK
P02747	71	IPGIRG <b>P</b> KGQKGE
P02747	78	KGQKGE <b>P</b> GLPGHP
P02747	84	PGLPGH <b>P</b> GKNGPM
P02747	89	HPGKNG <b>P</b> MGPPGM
P02747	92	KNGPMG <b>P</b> PGMPGV
P02747	101	MPGV <b>P</b> PGMPGPIGE
P02747	108	MGIPGE <b>P</b> GEEGRY
P02747	131	TRQTHQ <b>P</b> PAPNSL
P02747	132	RQTHQ <b>P</b> PAPNSLI
P02747	134	THQPPA <b>P</b> NSLIRF
P02747	147	NAVLTN <b>P</b> QGDYDT
P02747	163	KFTCKV <b>P</b> GLYYFV
P58782	5	@@GCCG <b>P</b> YPNAAC
P58928	6	@APWL <b>V</b> PSQITTC
P0C8W0	9	TLGILL <b>P</b> IALLLP
P0C8W0	15	PIALL <b>L</b> PLANPAE
P0C8W0	19	LLPLAN <b>P</b> AEANGDG
P0C8W0	29	GDGQAM <b>P</b> RTRNLR
P0C8W0	73	GPCCCK <b>P</b> NFTCQI
Q7Z094	36	STNWIL <b>P</b> GCSTSS
Q9U3Z3	23	FLNLV <b>V</b> PTSACRA
Q9U3Z3	57	GHPCR <b>H</b> PGKRSKL
P60245	12	LYGSCR <b>P</b> FPGCYN
P02453	36	GQEEDI <b>P</b> PVTCVQ
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P02453	82	DELKDC <b>P</b> NAKVPT
P02453	87	CPNAKV <b>P</b> TDECCP
P02453	93	PTDECC <b>P</b> VCPEGQ
P02453	96	ECCPVC <b>P</b> EGQESP
P02453	102	PEGQES <b>P</b> TDQETT
P02453	122	DTGPRG <b>P</b> RGPA GP
P02453	128	PRGPAG <b>P</b> PGRDGI
P02453	177	STGISV <b>P</b> GPMGPS
P02453	179	GISVP <b>G</b> PMGPSGP
P02453	189	SGPRGL <b>P</b> GPPGAP
P02453	192	RGLPG <b>P</b> PGAPGPQ
P02453	225	RGPPG <b>P</b> PGKNGDD
P02453	240	AGKPGR <b>P</b> GERGPP
P02453	255	QGARGL <b>P</b> GTAGLP
P02453	288	AGPKGE <b>P</b> GSPGEN
P02453	312	PGERGR <b>P</b> GAPGPA
P02453	342	TGPAG <b>P</b> PGFPGAV
P02453	345	AGPPG <b>F</b> PGAVGAK
P02453	359	EGGPQ <b>G</b> PRGSEGP
P02453	372	QGV <b>R</b> GE <b>P</b> GPPGPA
P02453	387	AGPAGN <b>P</b> GADGQP
P02453	408	PGIAG <b>A</b> PGFPGAR
P02453	411	AGAPG <b>F</b> PGARGPS
P02453	425	PQG <b>P</b> SG <b>P</b> PGPKGN
P02453	426	QGP <b>S</b> GP <b>P</b> PGPKGNS
P02453	435	KGNSG <b>E</b> PGAPGSK
P02453	438	SGEPG <b>A</b> PGSKGDT
P02453	450	TGAKG <b>E</b> PGPTGIQ
P02453	459	TGIQ <b>G</b> PPGPAGEE
P02453	480	PGPAGL <b>P</b> GPPGER
P02453	483	AGLPG <b>P</b> PGERGGP
P02453	506	VAGPK <b>G</b> PAGERGA
P02453	513	AGERG <b>A</b> PGPAGPK

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P02453	515	ERGAPGPAGPKGS
P02453	522	AGPKGSPGEAGRP
P02453	528	PGEAGRPEAGLP
P02453	543	KGLTGS PGSPGPD
P02453	546	TGSPGS PGPDGKT
P02453	555	DGKTGPPGPAGQD
P02453	564	AGQDGRPGPPGPP
P02453	600	AGERGVPGPPGAV
P02453	603	RGVPGPPGAVGPA
P02453	608	PPGAVGPAGKDGE
P02453	621	AGAQQPPGPAGPA
P02453	623	AQGPPGPAGPAGE
P02453	651	PGPAGPPGEAGKP
P02453	663	PGEQGVPGDLGAP
P02453	669	PGDLGAPGPSGAR
P02453	671	DLGAPGPSGARGE
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P02453	714	KGDAGAPGAPGSQ
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P02453	756	KGADGAPGKDGVV
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P02453	840	KGDAGPPGPAGPA
P02453	849	AGPAGPPGPIGNV
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P02453	858	IGNVGAPGPKGAR
P02453	885	AGRVGPPGPSGNA
P02453	893	PSGNAGPPGPPGP
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P02453	1122	QGPPGP PGSPGEQ
P02453	1125	PGPPGS PGEQGPS
P02453	1142	PAGPRGP PGSAGS
P02453	1143	AGPRGP PGSAGSP
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P02453	1459	FGFDVG PACFL@@
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P0C2W8	601	SPGKDGRGLTGP
P0C2W8	883	ETGPSGP PGAPGA
P0C2W8	884	TGPSGP PGAPGAP
P0C2W8	1028	PGPPGP PGPPSGA

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P85154	11	KGVGLGPGPMGLM
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P85154	32	TGPPGSPGFQGP
P85154	163	SDGSVGPVGPAGP
P85154	166	SVGPVGPAGPIGS
P85154	184	FPGAPGPKGEIGP
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P85154	194	IGPVGNPGPSGPA
P85154	196	PVGNPGPSGPAGP
P85154	253	PRGIPGPVGAAGA
P85154	289	EPGSAGPQGPPGP
P85154	304	EEGKRGPNGEAGS
P85154	313	EAGSAGPAGPPGL
P85154	316	SAGPAGPPGLRGG
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P85154	341	AGVMGPPGSRGAS
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P85154	355	PAGVRGPPSGDGR
P85154	362	SGDSGRPGEPGVM
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P85154	370	EPGVMGPRGLPGS
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P85154	377	RGLPGSPGNVGPA
P85154	382	SPGNVGPPAGKEGP
P85154	388	PAGKEGPAGLPGI
P85154	392	EGPAGLPIDGRP
P85154	398	PGIDGRPGPIGPA
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P85154	454	NNGAQGPGLQGV
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P85154	481	FQGLPGPSGTAGE
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P85154	515	RGERGPPGQSGAA
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P85154	632	AGPRGSPGERGEV
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P85154	643	EVGPAGPNGFAGP
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P85154	676	ENGPVGPTGPVGA
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P85154	694	PNGPPGPAGSRGD
P85154	703	SRGDGGPPGATGF
P85154	718	AAGRTGPPGPAGI
P85154	742	KEGLRGPRGDQGP
P85154	760	ETGASGPPGFAGE
P85154	773	KGSSGEPGTAGPP

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P85154	778	EPGTAGPPGAPGP
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P85154	817	AVGEPGLGIAGP
P85154	830	PGARGPPGAVGSP
P85154	836	PGAVGSPGVNGAP
P85154	872	KGERGYPGNAGPV
P85154	877	YPGNAGPVGTAGA
P85154	884	VGTAGAPGPQGPL
P85154	886	TAGAPGPQGPLGP
P85154	889	APGPQGPLGPAGK
P85154	892	PQGPLGPAGKHGN
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P85154	919	AVGPRGPSGPQGA
P85154	922	PRGPSGPQGARGD
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P85154	989	VGKDGRPGHAGAV
P85154	997	HAGAVGPAGVRGS
P85153	8	EPGGVGPIGPPGE
P85153	327	@@@@GAPGERGET
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P12111	161	KDGLALPSAELKS
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P12111	403	NLVFTVPEFRSFG
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P12111	550	RAAEGI PKLLVLI
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P12111	605	SSLVFI PAEFRAA
P12111	612	AEFRAAPLQGMLP
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P12111	623	LPGLLAPLRTL
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P12111	687	VQFSDTPVTEFSL
P12111	744	RIREHVPQLLLLL
P12111	793	EQIAFNPSLVYLM
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P12111	809	SSLPALPQQLIQP
P12111	815	PQQLIQPLTTYVS

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P12111	828	GGVEEVPLAQ	PES
P12111	832	EVPLAQ	PESKRDI
P12111	853	NLVGQFPVVR	DFL
P12111	870	DELNVKPEG	TRIA
P12111	897	DEHQSKPEIL	NLV
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P12111	970	KQSGVVPFIF	QAK
P12111	980	QAKNADPAELE	QI
P12111	990	EQIVLSPAFIL	A
P12111	1000	LAAESLPKIGD	LH
P12111	1007	KIGDLHPQIV	NLL
P12111	1021	SVHNGAPAPV	SGE
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P12111	1629	PGVDTPP	PSRPEK
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P12111	1733	RVNHFVPE	AGSRL
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P12111	1894	SVVANTPSGPVEA
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P12111	2005	GFMYDRPLRLNLL
P12111	2033	KACCGVPCKCSGQ
P12111	2045	QRGDRGPIGSIGP
P12111	2051	PIGSIGPKGIPGE
P12111	2055	IGPKGIPGEDGYR
P12111	2064	DGYRGYPGDEGGP
P12111	2070	PGDEGGPGERGPP
P12111	2075	GPGERGPPGVNGT
P12111	2076	PGERGPPGVNGTQ
P12111	2088	QGFQGC PGQRGVK
P12111	2124	DGDKGLPGSSGEK
P12111	2133	SGEKGNPGRRGDK
P12111	2141	RRGDKGPRGEKGE
P12111	2157	VGIRGDPGNPGQD
P12111	2160	RGDPGNPGQDSQE
P12111	2169	DSQERGPKGETGD
P12111	2178	ETGDLGPMGVPR
P12111	2182	LGPMGVPGRDGVP
P12111	2188	PGRDGVPGGPGET
P12111	2191	DGVPGGPGETGKN
P12111	2205	GFGRRGPPGAKGN
P12111	2215	KGNKGGPGQPGFE
P12111	2218	KGGPGQPGFEGEQ
P12111	2232	TRGAQGPAGPAGP
P12111	2235	AQGPAGPAGPPGL
P12111	2238	PAGPAGPPGLIGE
P12111	2250	EQGISGPRGSGGA
P12111	2260	GGAAGAPGERGRT
P12111	2268	ERGRTGPLGRKGE
P12111	2275	LGRKGE PGEPGPK
P12111	2278	KGEPGE PGPKGGI
P12111	2280	EPGE PGPKGGIGN
P12111	2289	GIGNRGPRGETGD
P12111	2321	FPGYPGPKGNPGE
P12111	2325	PGPKGNPGEPGLN
P12111	2328	KGNPGE PGLNGTT
P12111	2336	LNGTTGPKGIRGR
P12111	2348	RRGNSGPPGIVGQ
P12111	2349	RGNSGPPGIVGQK
P12111	2358	VGQKGDPGYPGPA
P12111	2361	KGDPGYPGPAGPK
P12111	2363	DPGYPGPAGPKGN
P12111	2366	YPGPAGPKGNRGD
P12111	2388	SIKDKCPCCYGPL
P12111	2393	CPCCYGPLECPVF
P12111	2397	YGPLECPVFPTEL
P12111	2400	LECPVFPTELAF
P12111	2440	IAESNCPRGARVA
P12111	2519	VFFSNTPTRASPQ
P12111	2524	TPTRAS PQLREAV
P12111	2540	SDAGITPLFLTRQ
P12111	2569	GHALVL PAGRDLT
P12111	2595	DICNIDPSCGFGS
P12111	2604	GFGSWRPSFRDRR

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P12111	2653	RQLDMS	DPKASQ
P12111	2655	LDMSPD	PKASQHF
P12111	2671	AVVQHA	PSESVDN
P12111	2681	VDNASM	PPVKVEF
P12111	2682	DNASMP	PPVKVEFS
P12111	2731	NVFESA	PNPRDLK
P12111	2733	FESAPN	PRDLKIV
P12111	2748	MLTGEV	PEQQLEE
P12111	2790	YTFASE	PNDVFFK
P12111	2808	TELNEE	PLMRFGR
P12111	2817	RFGRL	LPFVSSE
P12111	2830	NAFYLS	PDIRKQC
P12111	2844	WFQGDQ	PTKNLVK
P12111	2859	HKQVNV	PNNVTSS
P12111	2866	NNVTSS	PTSNPVT
P12111	2870	SSPTSN	PVTTTKP
P12111	2876	PVTTTK	PVTTTKP
P12111	2889	VTTTTK	PVTTTTP
P12111	2896	VTTTTK	PVTIINQ
P12111	2903	VTIINQ	PSVKPAA
P12111	2907	NQPSVK	PAAAKPA
P12111	2912	KPAAAK	PAPAKPV
P12111	2914	AAAKPA	PAKPVAA
P12111	2917	KPAPAK	PVAAKPV
P12111	2922	KPVAAK	PVATKMA
P12111	2932	KMATVR	PPVAVKP
P12111	2933	MATVRP	PPVAVKPA
P12111	2938	PPVAVK	PATAAKP
P12111	2944	PATAAK	PVAAKPA
P12111	2949	KPVAAK	PAAVRPP
P12111	2954	KPAAVR	PAAAAAA
P12111	2955	PAAVRP	PAAAAAK
P12111	2962	AAAAAK	PVATKPE
P12111	2967	KPVATK	PEVPRPQ
P12111	2970	ATKPEV	PRPQAAK
P12111	2972	KPEVPR	PQAAKPA
P12111	2977	RPQAAK	PAATKPA
P12111	2982	KPAATK	PATTKPM
P12111	2987	KPATTK	PMVKMSR
P12111	3014	HWERA	EPGPYFY
P12111	3015	WERAEP	PGPYFYD
P12111	3017	RAEPPG	PYFYDLT
P12111	3081	STKKSQ	PPPPQPA
P12111	3082	TKKSQP	PPPPQPAR
P12111	3083	KKSQPP	PPQPARS
P12111	3084	KSQPPP	PQPARS
P12111	3086	QPPPPQ	PARSASS
P12111	3103	LMVSTE	PLALTET
P12111	3115	TDICKL	PKDEGTC
P12111	3132	LKWYYD	PNTKSCA
P12111	3164	CEKVC	APVLAKPG
P12111	3169	APVLAK	PGVISVM
P60513	13	YGFCSL	PILKNGL
P58914	3	@@@@CK	PPGSPCR
Q02388	19	GILAE	APRVRAQH
Q02388	67	LEGLVL	PFSGAAS
Q02388	88	VQYSDD	PRTEFGL
Q02388	133	ADHVFL	PQLARPG
Q02388	138	LPQLAR	PGVPKVC

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Q02388	141	LARPGV <b>P</b> KVCILI
Q02388	180	GIKNAD <b>P</b> EELKRV
Q02388	190	KRVASQ <b>P</b> TSDDFF
Q02388	209	ILRTL <b>L</b> PLVSRRV
Q02388	223	TTAGGV <b>P</b> VTRPPD
Q02388	227	GVPVTR <b>P</b> PDDSTS
Q02388	228	VPVTR <b>P</b> PDDSTSA
Q02388	235	DDSTSA <b>P</b> RDVLVS
Q02388	243	DLVLSE <b>P</b> SSQSLR
Q02388	258	WTAASG <b>P</b> VTGYKV
Q02388	268	YKVQYT <b>P</b> LTGLGQ
Q02388	275	LTGLGQ <b>P</b> LPSEQR
Q02388	277	GLGQ <b>P</b> LPSEQRQEV
Q02388	286	RQEVNV <b>P</b> AGETSV
Q02388	299	RLRGLR <b>P</b> LTEYQV
Q02388	331	TTALEG <b>P</b> ELTIQN
Q02388	351	VAWRSV <b>P</b> GATGYR
Q02388	367	RVLSGG <b>P</b> TQQQEL
Q02388	375	QQQELG <b>P</b> QGGSVL
Q02388	387	LLRDLE <b>P</b> GTDYEV
Q02388	405	FGRSVG <b>P</b> ATSLMA
Q02388	423	VEQTLR <b>P</b> VILGPT
Q02388	428	RPVILG <b>P</b> TSILLS
Q02388	439	LSWNLV <b>P</b> EARGYR
Q02388	456	RETGLE <b>P</b> PQKVVL
Q02388	457	ETGLE <b>P</b> PQKVVL
Q02388	463	PQKVVL <b>P</b> SDVTRY
Q02388	476	QLDGLQ <b>P</b> GTEYRL
Q02388	496	GHEVAT <b>P</b> ATVVPT
Q02388	501	TPATVV <b>P</b> TGPELP
Q02388	504	TVVPTG <b>P</b> ELPVSP
Q02388	507	PTGPEL <b>P</b> VSPVTD
Q02388	510	PELPVS <b>P</b> VTDLQA
Q02388	520	LQATEL <b>P</b> GQVRV
Q02388	530	VRVSW <b>P</b> VPGATQ
Q02388	532	VSWSPV <b>P</b> GATQYR
Q02388	554	ERTLV <b>L</b> PGSQTA
Q02388	581	VSARVG <b>P</b> REGSAS
Q02388	595	LTVRRE <b>P</b> ETPLAV
Q02388	598	RREPET <b>P</b> LAVPGL
Q02388	602	ETPLAV <b>P</b> GLRVVV
Q02388	620	VRVAWG <b>P</b> VPGASG
Q02388	622	VAWGPV <b>P</b> GASGFR
Q02388	637	WSTGSG <b>P</b> ESSQTL
Q02388	644	ESSQTL <b>P</b> PDSTAT
Q02388	645	SSQTL <b>P</b> PDSTATD
Q02388	657	DITGLQ <b>P</b> GTTYQV
Q02388	675	RGREEG <b>P</b> AAVIVA
Q02388	685	IVARTD <b>P</b> LGPVRT
Q02388	688	RTDPLG <b>P</b> VRTVHV
Q02388	710	ITWTRV <b>P</b> GATGYR
Q02388	725	WWSAHG <b>P</b> EKSQLV
Q02388	745	ELDGLE <b>P</b> DTEYTV
Q02388	763	VAGVDG <b>P</b> PASVVV
Q02388	764	AGVDGP <b>P</b> PASVVV
Q02388	773	VVVRTA <b>P</b> EPVGRV
Q02388	775	VRTAPE <b>P</b> VGRVSR
Q02388	816	GRSEGG <b>P</b> MRHQIL
Q02388	823	MRHQIL <b>P</b> GNNTDSA

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Q02388	855	GDREGT	PVSIVVT
Q02388	863	SIVVTT	PPEAPPA
Q02388	864	IVVTTT	PEAPPAL
Q02388	867	TTTPEA	PALGTL
Q02388	868	TPPEA	PALGTLH
Q02388	889	LRLRWE	PVPRAQG
Q02388	891	LRWEPV	PRAQGFL
Q02388	902	FLLHWQ	PEGGQEQ
Q02388	914	QSRVLG	PELSSYH
Q02388	926	HLDGLE	PATQYRV
Q02388	939	RLSVLG	PAGEGPS
Q02388	944	GPAGEG	PSAEVTA
Q02388	955	TARTES	PRVPSIE
Q02388	958	TESPRV	PSIELRV
Q02388	978	VTLAWT	PVSRASS
Q02388	991	YILSWR	PLRGPQG
Q02388	995	WRPLRG	PGQEVPG
Q02388	1000	GPGQEV	PGSPQTL
Q02388	1003	QEVPGS	PQTLPGI
Q02388	1007	GSPQTL	PGISSSQ
Q02388	1020	RVTGLE	PGVSYIF
Q02388	1030	YIFSLT	PVLDGVR
Q02388	1038	LDGVRG	PEASVTQ
Q02388	1046	ASVTQT	PVCPRGL
Q02388	1049	TQTPVC	PRGLADV
Q02388	1059	ADVVF	FLPHATQDN
Q02388	1085	LVLALG	PLGPQAV
Q02388	1088	ALGPLG	PQAVQVG
Q02388	1102	LSYSHR	PSPLFPL
Q02388	1104	YSHRPS	PLFPLNG
Q02388	1107	RPSPLF	PLNGSHD
Q02388	1125	QRIRDM	PYMDPSG
Q02388	1129	DMPYMD	PSGNNLG
Q02388	1148	HRYMLA	PDAPGRR
Q02388	1151	MLAPDA	PGRRQHV
Q02388	1158	GRRQHV	PGVMVLL
Q02388	1168	VLLVDE	PLRGDIF
Q02388	1176	RGDIFS	PIREAQA
Q02388	1197	GMAGAD	PEQLRRL
Q02388	1205	QLRRLA	PGMDSVQ
Q02388	1220	FAVDDG	PSLDQAV
Q02388	1242	ASFTTQ	PRPEPCP
Q02388	1244	FTTQPR	PEPCPVY
Q02388	1246	TQPRPE	PCPVYCP
Q02388	1248	PRPEPC	PVYCPKG
Q02388	1252	PCPVYC	PKGQKGE
Q02388	1259	KGQKGE	PGEMGLR
Q02388	1270	LRGQVG	PPGDPGL
Q02388	1271	RGQVGP	PGDPGLP
Q02388	1274	VGPPGD	PGLPGRT
Q02388	1277	PGDPGL	PGRTGAP
Q02388	1283	PGRTGA	PGPQGPP
Q02388	1285	RTGAPG	PQGPPGS
Q02388	1288	APGPQG	PPGSATA
Q02388	1289	PGPQGP	PGSATAK
Q02388	1301	KGERGF	PGADGRP
Q02388	1307	PGADGR	PGSPGRA
Q02388	1310	DGRPGS	PGRAGNP
Q02388	1316	PGRAGN	PGTPGAP

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Q02388	1319	AGNPGT <b>P</b> GAPGLK
Q02388	1322	PGTPGAP <b>P</b> GLKGS
Q02388	1328	PGLKGS <b>P</b> GLPGPR
Q02388	1331	KGS <b>P</b> GL <b>P</b> GPRGDP
Q02388	1333	SPGL <b>P</b> G <b>P</b> RGDPGE
Q02388	1337	PGPRGD <b>P</b> GERGPR
Q02388	1342	DPGERG <b>P</b> RGPKGE
Q02388	1345	ERGPRG <b>P</b> KGEPGA
Q02388	1349	RGPKGE <b>P</b> GAPGQV
Q02388	1352	KGEPGAP <b>P</b> GQVIGG
Q02388	1361	VIGGEG <b>P</b> GLPGRK
Q02388	1364	GEG <b>P</b> GL <b>P</b> GRKGDP
Q02388	1370	PGRKGD <b>P</b> GPSGPP
Q02388	1372	RKGD <b>P</b> G <b>P</b> SGPPGP
Q02388	1375	DPG <b>P</b> SG <b>P</b> PGPRGP
Q02388	1376	PGPSG <b>P</b> PGPRG <b>P</b> L
Q02388	1378	PSGPPG <b>P</b> RG <b>P</b> LGD
Q02388	1381	PPGPRG <b>P</b> LGD <b>P</b> GP
Q02388	1387	PLGD <b>P</b> G <b>P</b> RGPPGL
Q02388	1390	DPGPRG <b>P</b> PGL <b>P</b> GT
Q02388	1391	PGPRG <b>P</b> PGL <b>P</b> GTA
Q02388	1394	RGPPGL <b>P</b> GTAMKG
Q02388	1410	DRGERG <b>P</b> PG <b>P</b> GEG
Q02388	1411	RGERG <b>P</b> PG <b>P</b> GEGG
Q02388	1413	ERGPPG <b>P</b> GEGGIA
Q02388	1420	GEGGIA <b>P</b> GEPGL <b>P</b>
Q02388	1423	GIAPGE <b>P</b> GL <b>P</b> GL <b>P</b>
Q02388	1426	PGE <b>P</b> GL <b>P</b> GL <b>P</b> GS <b>P</b>
Q02388	1429	PGL <b>P</b> GL <b>P</b> GS <b>P</b> GPQ
Q02388	1432	PGL <b>P</b> GS <b>P</b> GPQGPV
Q02388	1434	LPGS <b>P</b> GPQGPVGP
Q02388	1437	SPGPQGPVGP <b>P</b> PGK
Q02388	1440	PQGPVGP <b>P</b> PGKKGE
Q02388	1441	QGPVGP <b>P</b> PGKKGEK
Q02388	1455	DSEDGAPGL <b>P</b> GPQ <b>P</b>
Q02388	1458	DGAPGL <b>P</b> GQPGS <b>P</b>
Q02388	1469	SPGEQGP <b>P</b> RGPPGA
Q02388	1472	EQGPRG <b>P</b> PGAIG <b>P</b>
Q02388	1473	QGPRG <b>P</b> PGAIG <b>P</b> K
Q02388	1478	PPGAIG <b>P</b> KGDRGF
Q02388	1485	KGDRGF <b>P</b> G <b>P</b> LGEA
Q02388	1487	DRGF <b>P</b> G <b>P</b> LGEAGE
Q02388	1500	KGERG <b>P</b> GPAGSR
Q02388	1502	ERGPPG <b>P</b> AGSRGL
Q02388	1509	AGSRGL <b>P</b> GVAGRP
Q02388	1515	PGVAGR <b>P</b> GAKGPE
Q02388	1520	RPGAKG <b>P</b> EGPPGP
Q02388	1523	AKGPEG <b>P</b> PGPTGR
Q02388	1524	KGPEG <b>P</b> PGPTGRQ
Q02388	1526	PEGPPG <b>P</b> TGRQGE
Q02388	1536	QGEKGE <b>P</b> GRPGDP
Q02388	1539	KGEPGR <b>P</b> GDP <b>P</b> AVV
Q02388	1542	PGRPGD <b>P</b> AVVGPA
Q02388	1547	DPAVVG <b>P</b> AVAGPK
Q02388	1552	GPAVAG <b>P</b> KGEKGD
Q02388	1561	EKGDVG <b>P</b> AGPRGA
Q02388	1564	DVGPA <b>P</b> RGATGV
Q02388	1576	VQGERG <b>P</b> PGLVLP
Q02388	1577	QGERG <b>P</b> PGLVLP <b>P</b>

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Q02388	1582	PPGLVLPGDPGPK
Q02388	1585	LVLPGDPGPKGDP
Q02388	1587	LPGDPGPKGDPGD
Q02388	1591	PGPKGDPGDRGPI
Q02388	1596	DPGDRGPIGLTGR
Q02388	1605	LTGRAGPPGDSGP
Q02388	1606	TGRAGPPGDSGPP
Q02388	1611	PPGDSGPPGEKGD
Q02388	1612	PGDSGPPGEKGD
Q02388	1618	PGEKGDGRPGPP
Q02388	1621	KGDPGRPGPPGPV
Q02388	1623	DPGRPGPPGPVGP
Q02388	1624	PGRPGPPGPVGP
Q02388	1626	RPGPPGPVGPGR
Q02388	1629	PPGPVGPGRGRDGE
Q02388	1644	EKGDEGPPGDPGL
Q02388	1645	KGDEGPPGDPGLP
Q02388	1648	EGPPGDGGLPGKA
Q02388	1651	PGDPGLPGKAGER
Q02388	1663	RGLRGAPGVRGPV
Q02388	1668	APGVRGPVGEKGD
Q02388	1678	KGDQGDPGEDGRN
Q02388	1687	DGRNGSPGSSGPK
Q02388	1692	SPGSSGPKGDRGE
Q02388	1699	KGDRGEPGPPGPP
Q02388	1701	DRGEPGPPGPPGR
Q02388	1702	RGEPGPPGPPGRL
Q02388	1704	EPGPPGPPGRLVD
Q02388	1705	PGPPGPPGRLVDT
Q02388	1713	RLVDTGPGAREKG
Q02388	1721	AREKGEPGDRGQE
Q02388	1729	DRGQEGPRGPKGD
Q02388	1732	QEGPRGPKGDPGL
Q02388	1736	RGPKGDGGLPGAP
Q02388	1739	KGDPGLPGAPGER
Q02388	1742	PGLPGAPGERGIE
Q02388	1753	IEGFRGPPGPQGD
Q02388	1754	EGFRGPPGPQGDP
Q02388	1756	FRGPPGPQGDPGV
Q02388	1760	PGPQGDPGVRGPA
Q02388	1774	EKGDRGPPGLDGR
Q02388	1775	KGDRGPPGLDGRS
Q02388	1787	SGLDGKPGAAGPS
Q02388	1792	KPGAAGPSGPNGA
Q02388	1795	AAGPSGPNGAAGK
Q02388	1805	AGKAGDPGRDGLP
Q02388	1811	PGRDGLPGLRGEQ
Q02388	1820	RGEQGLPGPSGPP
Q02388	1822	EQGLPGPSGPPGL
Q02388	1825	LPGPSGPPGLPGK
Q02388	1826	PGPSGPPGLPGKP
Q02388	1829	SGPPGLPGKPGED
Q02388	1832	PGLPGKPGEDGKP
Q02388	1838	PGEDGKPGLNKGN
Q02388	1847	NGKNGEPGDPGED
Q02388	1850	NGEPGDPGEDGRK
Q02388	1873	REGRDGPKGERGA
Q02388	1880	KGERGAPGILGPQ
Q02388	1885	APGILGPQGPPGL

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Q02388	1888	ILGPQGPPGLPGP
Q02388	1889	LGPPQGPPGLPGPV
Q02388	1892	QGPPGLPGPVGPP
Q02388	1894	PPGLPGPVGPPGQ
Q02388	1897	LPGPVGPVGQGFPG
Q02388	1898	PGPVGPVGQGFPG
Q02388	1903	PPGQGFPGVPGGT
Q02388	1906	QGFPGVPGGTGPK
Q02388	1911	VPGGTGPKGDRGE
Q02388	1927	KGEQGLPGERGLR
Q02388	1936	RGLRGEPGSVPNV
Q02388	1940	GEPGSVPNVDRLL
Q02388	1972	SSGSFLVPPERRR
Q02388	1974	GSFLPVPERRRGP
Q02388	1980	PERRRGPKGDSGE
Q02388	1989	DSGEQGPVGKEGP
Q02388	1990	SGEQGPVGKEGPI
Q02388	1995	PPGKEGPVGFPGGE
Q02388	1999	EGPIGFPGERGLK
Q02388	2013	DRGDPGPQGPPGL
Q02388	2016	DGPQGPVGLALG
Q02388	2017	PGPQGPVGLALGE
Q02388	2026	ALGERGPPGPSGL
Q02388	2027	LGERGPPGPSGLA
Q02388	2029	ERGPPGPSGLAGE
Q02388	2036	SGLAGEPGKPGIP
Q02388	2039	AGEPGKPGIPGLP
Q02388	2042	PGKPGIPGLPGRA
Q02388	2045	PGIPGLPGRAGGV
Q02388	2057	VGEAGRPGERGER
Q02388	2077	EQGRDGPVGLPGT
Q02388	2078	QGRDGPVGLPGTP
Q02388	2081	DGPPGLPGTPGPP
Q02388	2087	PGTPGPPGPPGPK
Q02388	2089	TPGPPGPPGPKVS
Q02388	2090	PGPPGPPGPKVSV
Q02388	2092	PPGPPGPKVSVDE
Q02388	2099	KVSVDEPGPGLSG
Q02388	2101	SVDEPGPGLSGEQ
Q02388	2109	LSGEQGPVGLKGA
Q02388	2110	SGEQGPVGLKGAK
Q02388	2119	KGAKGEPGSNGDQ
Q02388	2127	SNGDQGPVKGDRGV
Q02388	2134	KGDRGVPGIKGDR
Q02388	2143	KGDRGEPGPRGQD
Q02388	2145	DRGEPGPRGQDGN
Q02388	2152	RGQDGNVGLPGER
Q02388	2155	DGNPGLPGERGMA
Q02388	2163	ERGMAGPEGKPGL
Q02388	2172	KPGLQGPVGPVGG
Q02388	2175	LQGPVGPVGGHGD
Q02388	2178	PRGPPGVPVGGHGD
Q02388	2187	GHGDPGPVGPVGG
Q02388	2191	PGPPGAPVGLAGPA
Q02388	2196	APVGLAGVGPVGG
Q02388	2199	LAGPAGVGPVGG
Q02388	2209	SGLKGEVGETGPP
Q02388	2214	EPGETGPVGRGLT
Q02388	2215	PGETGPVGRGLTG

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Q02388	2222	GRGLTGPTGAVGL
Q02388	2231	AVGLPGPPGPSGL
Q02388	2232	VGLPGPPGPSGLV
Q02388	2234	LPGPPGPSGLVGP
Q02388	2240	PSGLVGPQGPSGL
Q02388	2244	VGPQGPSGLPGQV
Q02388	2247	QGPSGLPGQVGET
Q02388	2256	VGETGKPGAPGRD
Q02388	2259	TGKPGAPGRDGAS
Q02388	2277	RGSPGVPGSPGLP
Q02388	2280	PGVPGSPGLPGPV
Q02388	2283	PGSPGLPGPVGPK
Q02388	2285	SPGLPGPVGPKGE
Q02388	2288	LPGPVGPKGEPGP
Q02388	2292	VGPKGEPGPTGAP
Q02388	2294	PKGEPGPTGAPGQ
Q02388	2298	PGPTGAPGQAVVG
Q02388	2306	QAVVGLPGAKEK
Q02388	2315	KGEKGAPGGLAGD
Q02388	2326	GDLVGEPGAKEGDR
Q02388	2335	KGDRGLPGPRGEK
Q02388	2337	DRGLPGPRGEKGE
Q02388	2350	AGRAGEPGDPGED
Q02388	2362	DGQKGAPGPKGFK
Q02388	2364	QKGAPGPKGFKGD
Q02388	2371	KGFKGDPGVGVPG
Q02388	2376	DPGVGVPGSPGPP
Q02388	2379	VGVPGSPGPPGPP
Q02388	2381	VPGSPGPPGPPGV
Q02388	2384	SPGPPGPPGVKGD
Q02388	2385	PGPPGPPGVKGD
Q02388	2394	KGDLGLPGLPGAP
Q02388	2397	LGLPGLPGAPGVV
Q02388	2400	PGLPGAPGVVGFP
Q02388	2406	PGVVGFPGQTGPR
Q02388	2411	FPGQTGPRGEMGQ
Q02388	2418	RGEMGQGPSGER
Q02388	2420	EMGQGPSGERGL
Q02388	2429	ERGLAGPPGREGI
Q02388	2436	PPGREGI PGPLGPP
Q02388	2438	REGIPGPLGPPGP
Q02388	2441	IPGPLGPPGPPGS
Q02388	2442	PGPLGPPGPPGSV
Q02388	2444	PLGPPGPPGSVGP
Q02388	2445	LGPPGPPGSVGPP
Q02388	2450	PPGSVGPPGASGL
Q02388	2451	PGSVGPPGASGLK
Q02388	2468	DPGVGLPGPRGER
Q02388	2470	GVGLPGPRGERGE
Q02388	2477	RGERGE PGIRGED
Q02388	2486	RGEDGRPGQEGPR
Q02388	2491	RPGQEGPRGLTGP
Q02388	2498	RGLTGP PGSRGER
Q02388	2528	SAVILGPPGPRGA
Q02388	2529	AVILGPPGPRGAK
Q02388	2531	ILGPPGPRGAKGD
Q02388	2543	DMGERGPRGLDGD
Q02388	2552	LDGDKGPRGDNGD
Q02388	2559	RGDNGD PGDKGSK

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Q02388	2568	KGSKGE <b>P</b> GDKGSA
Q02388	2577	KGSAGL <b>P</b> GLRGLL
Q02388	2585	LRGLLG <b>P</b> QGQPGA
Q02388	2589	LG <b>P</b> QGQ <b>P</b> GAAGIP
Q02388	2595	PGAAGI <b>P</b> GD <b>P</b> GS <b>P</b>
Q02388	2598	AGIPGD <b>P</b> GS <b>P</b> KG <b>D</b>
Q02388	2601	PGD <b>P</b> GS <b>P</b> KG <b>D</b> GV <b>P</b>
Q02388	2607	PGK <b>D</b> GV <b>P</b> GIRGEK
Q02388	2621	DVGFMG <b>P</b> RGLKGE
Q02388	2648	DKGEAG <b>P</b> PGR <b>P</b> GL
Q02388	2649	KGEAG <b>P</b> PGR <b>P</b> GLA
Q02388	2652	AG <b>P</b> PGR <b>P</b> GLAGHK
Q02388	2681	KEGLIG <b>P</b> KGDRGF
Q02388	2691	RGFDGQ <b>P</b> G <b>P</b> KGDQ
Q02388	2693	FDGQ <b>P</b> G <b>P</b> KGDQGE
Q02388	2706	KGERGT <b>P</b> GIGGF <b>P</b>
Q02388	2712	PGIGGF <b>P</b> G <b>P</b> SGND
Q02388	2714	IGGF <b>P</b> G <b>P</b> SGNDGS
Q02388	2723	NDGSAG <b>P</b> P <b>G</b> PPGS
Q02388	2724	DGSAG <b>P</b> P <b>G</b> PPGSV
Q02388	2732	PPGSVG <b>P</b> R <b>G</b> PEGL
Q02388	2747	QKGERG <b>P</b> PGERVV
Q02388	2748	KGERG <b>P</b> PGERVVG
Q02388	2756	ERVVGAP <b>G</b> V <b>P</b> GAP
Q02388	2759	VGAPGV <b>P</b> GAPGER
Q02388	2762	PGV <b>P</b> GAP <b>G</b> ERGEQ
Q02388	2815	IASGSR <b>P</b> L <b>P</b> SYAA
Q02388	2817	SGSR <b>P</b> L <b>P</b> SYAADT
Q02388	2832	SQLHAV <b>P</b> VLRVSH
Q02388	2846	EEEEERV <b>P</b> PE <b>D</b> DEY
Q02388	2847	EEERV <b>P</b> PE <b>D</b> DEYS
Q02388	2866	VEEYQD <b>P</b> EAPWDS
Q02388	2869	YQD <b>P</b> EAPWDSDDP
Q02388	2875	PWDSDD <b>P</b> CSL <b>P</b> LD
Q02388	2879	DD <b>P</b> CSL <b>P</b> LDEGSC
Q02388	2906	STEACH <b>P</b> FBVYGGC
Q02388	2930	ACERRC <b>P</b> PRVVQS
Q02388	2931	CERRC <b>P</b> PRVVQSQ
P23805	5	@@MLLL <b>P</b> LSVLLL
P23805	15	LLLLLTQ <b>P</b> W <b>R</b> SLGA
P23805	42	TLVMCS <b>P</b> LESGL <b>P</b>
P23805	48	PLESGL <b>P</b> GH <b>D</b> GQD
P23805	59	QDGREC <b>P</b> HGEKGD
P23805	66	HGEKGD <b>P</b> G <b>S</b> PGPA
P23805	69	KGD <b>P</b> GS <b>P</b> G <b>P</b> AGRA
P23805	71	DPG <b>S</b> PG <b>P</b> AGRAGR
P23805	83	RPGWVG <b>P</b> IG <b>P</b> KGD
P23805	86	WVG <b>P</b> IG <b>P</b> KGDNGF
P23805	98	FVGEPG <b>P</b> KGDTGP
P23805	104	PKGDTG <b>P</b> R <b>G</b> PPGM
P23805	107	DTGPRG <b>P</b> P <b>G</b> MPGP
P23805	113	PPGMPG <b>P</b> AGREG <b>P</b>
P23805	119	PAGREG <b>P</b> SGKQGS
P23805	128	KQGSMB <b>P</b> PGT <b>P</b> GP
P23805	134	PPGT <b>P</b> G <b>P</b> KGETGP
P23805	140	PKGETG <b>P</b> KGGVGA
P23805	155	IQGF <b>P</b> G <b>P</b> SLKGE
P23805	165	KGEKGAP <b>P</b> ETGAP
P23805	179	RAGVTG <b>P</b> SGAIG <b>P</b>

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P23805	185	PSGAIGPQGPSGA
P23805	188	AIGPQGPARGP
P23805	194	PSGARGPPGLKGD
P23805	204	KGDRGDGETGAK
P23805	249	KKAVLFPDQAVG
P23805	285	KGQLASPRSSAEN
P23805	321	EGRFTYPTGEILV
P23805	336	NWADGEPNNSDEG
P23805	344	NSDEGQPENCVEI
P23805	352	NCVEIFPDGKWND
P23805	360	GKWNDVPCSKQLL
P29602	16	NTGWSVPSSPNFY
P29602	19	WSVPSSPNFYSQW
P29602	42	SLQFNFPANAHNV
P29602	74	DVERTSPVIERLD
P58924	15	FVLFFFLLFTLASSL
P58924	37	TRLKSDFYRALAR
Q9BPG6	34	DDVPLSLRDNLK
Q25460	5	@TKHEPVYKPKV
Q25460	9	HEPVYKPKVTSYS
Q25460	17	KTSYSAPYKPPTY
Q25460	20	YSAPYKPTYQPL
Q25460	21	SAPYKPTYQPLK
Q25460	25	KPPTYQPLKKKVD
Q25460	34	KKVDYRPTKSYPP
Q25460	39	RPTKSYPTYGSK
Q25460	40	PTKSYPTYGSKT
Q25460	50	SKTNYLPLAKKLS
Q25460	60	KLSSYKPIKTTYN
Q25460	72	NAKTNYPPVYKPK
Q25460	73	AKTNYPVYKPKM
Q25460	77	YPPVYKPKMTYPP
Q25460	82	KPKMTYPTYKPK
Q25460	83	PKMTYPTYKPKP
Q25460	87	YPPTYKPKPSYPP
Q25460	99	PTYKSKPTYKPKI
Q25460	103	SKPTYKPKITYPP
Q25460	123	YPSSYKPKKTYPP
Q25460	168	KTKKTYPSSYKAK
Q25460	205	PTYKAKPTYKAKP
Q25460	492	KSKSSYPSSYKPK
Q25460	507	YPPTYKPKLTYKP
Q25460	691	PTYKAKPTNPSTY
Q25460	694	KAKPTNPSTYKAK
Q25460	821	YPPSYKPKITYPS
Q25460	826	KPKITYPSTYKLK
Q25460	846	KSKTSYPPTYNKK
Q25460	847	SKTSYPPTYNKKI
Q25460	856	NKKISYPSSYKAK
Q25460	871	YPPAYKPTNRY@@
P85065	9	SWSLCTPGCTSPG
P19999	43	RDGRDGPKEKGE
P19999	50	KGEKGEPGQGLRG
P19999	60	LRGLQGPGLGP
P19999	66	PPGKLGPGLSGA
P19999	78	APGSQGPKGQKGD
P19999	137	TNHERMPFSKVK
P19999	155	RGTVAIPRNAEEN
P19999	203	NWKKDEPNHGS

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P08661	30	GAQSSCPVIACSS
P08661	37	VIACSSPGLNGFP
P08661	43	PGLNGFPGKDGH
P08661	74	PPGKVGPPAGPPGN
P08661	77	KVGPA GP GNP PGS
P08661	78	VGPAGP GNP GSK
P08661	81	AGPPGNPGSKGAT
P08661	89	SKGATGPKGDRGE
P08661	143	SSVRRMPLNRAKA
P08661	209	NWNEGEPNNVGS
P08661	231	GKWNDVPCSDSFL
Q941C7	25	SSLARNPVS VSGG
Q941C7	52	VEDYGDPSANPKH
Q941C7	56	GDPSANPKHDPGV
Q941C7	60	ANPKHDPGVPPSA
P00877	3	@@@MV PQ TETKA
P00877	27	RLTYYT PDYVVRD
P00877	44	AAFRMT PQLGVPP
P00877	49	TPQLGV PPEECGA
P00877	50	PQLGV PPEECGAA
P00877	89	RCYDIE PVPGEDN
P00877	91	YDIEPVPGEDNQY
P00877	141	LEDLRI PPAYVKT
P00877	142	EDLRI PPAYVKTF
P00877	152	KTFVGP PHGIQVE
P00877	176	LGCTIK PKLGLSA
P00877	210	ENVNSQ PFMRWRD
P00877	263	AKELGVPI IMHDY
P00877	372	QDWCSM PGVMPVA
P00877	376	SMPGVMPVASGGI
P00877	388	IHVWHM PALVEIF
P00877	410	GGTLGH PWGNAPG
P00877	415	HPWGNAPGAAANR
P00877	453	SACKWS PELAAAC
P08427	56	VKGDGP PGPMGP
P08427	59	DPGPPG PMGPPGG
P08427	62	PPGPMG PGGMGP
P08427	79	DGLPGAP GAPGER
P08427	82	PGAPGAP GERGDK
P08427	91	RGDKGE PGERGLP
P08427	97	PGERGL PGFPAYL
P08427	100	RGLPGF PAYLDEE
P08427	165	GGNIAV PRTPEEN
P08427	168	IAVPRT PEENEAI
P08427	195	MIEDQT PGDFHYL
P08427	213	NYTNWY PGEPRGQ
P08427	216	NWYPGE PRGQKE

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