

Online Supporting Information S1. The learning dataset \mathcal{S}_L consists of a positive dataset \mathcal{S}_L^+ and a negative dataset \mathcal{S}_L^- . They each contain 2300 SNO and 2300 non-SNO sites and peptide fragments derived from the 1,530 proteins. See the text of the paper for further explanation.

Positive dataset \mathcal{S}_L^+ contains 2300 SNO sites and peptide fragments

Uniprot ID	Site	Sequence
Q8R164	234	ICRHELLPLVQ C PTLIVHGEKD
P61979	132	QLPLESDAVE C LNYQHYPKSD
P02730	201	QHSSLETQLF C EQDGGTEGH
Q9EQ80	147	NSWLAKGLGT C TTRPIHPSRA
Q96EK6	157	KLNCYKITLE C LPQNVGFYKK
Q9JK42	392	YQTIQEAGDW C VPSTEPKNTS
O70325	55	SAKDIDGHMV C LDKYRGFVCI
P27695	310	IRSKALGSDH C PITLYLALXX
P09382	43	LNLGKDSNNL C LHFNPRFNAH
Q8CHP8	193	KAVRYLQQPD C LLVGTNMDNR
P54822	266	ASLGASVHKI C TDIRLLANLK
Q9BY44	119	LQLYDVKTGT C LKSFIQKMQ
Q29RF7	1079	SKTNEKLYTV C DVALCVINSK
Q8BMF4	581	FSAIINPPQ A CILAIGASEDK
Q60936	265	ANAERIVSTL C KVRGAALKLG
P62245	72	VVNLTGRLNK C GVISPRFDVQ
Q8BIJ6	1005	SETADALCPR C AEVIGAKXXX
Q8R5G7	831	GLLRGDHLFL C PAPGPGPPAP
P17182	357	IGSVTESLQ A CKLAQSNWGV
P78347	475	KLRKMVDQLF C KKFAEALGST
Q9D6J5	130	SPTPVSWDVM C KHLFGFVAFM
P62281	116	HKNMSVHLS P CFRDVQIGDIV
Q80UU9	75	LWVRWGRRGL C SGPGAGEESP
Q99LB2	210	ELAPKNIRVN C LAPGLIKTRF
Q9CZB0	107	ESYLMFVKSL C LGPTLIYSAK
P10605	211	EGDTPRCNK S CEAGYSPSYKE
P17405	120	ARVGSVAIKL C NLLKIAPPAV
Q9D1H8	49	SEKVRATNLN C SVIADVHRDG
Q8R404	60	PAMYQFSQYV C QQTGLEMPQL
Q9CQ75	24	LGLREIRVHL C QRSPGSQGVR
Q9D7J4	28	LGILDVENTP C ARESILYGSL
A2ASS6	34176	TLRMRSRVP C GQNTFILNV
Q99LC3	183	MYNQYIRKQ C VVDHYNEIKRL
P38647	66	VGIDLGTTNS C VAVMEGKQAK
Q924X2	448	LYGKALLHGN C YNRWFDKSFT
Q15149	1136	LKDIRLQLEA C ETRTVHRLRL
P18760	80	TFVKMLPKD C RYALYDATYE
Q9D1E6	83	LLGSYPVDDG C RIHVIDHSGV
Q7TPV4	1028	PSRPRHQAQ A CLMLQKTL SAR
P97311	301	DLSYRLVFLA C HVAPTNPFRG
Q8VCT3	151	TYRVGEGPGV C WLAPEQTAGK
Q9R112	127	RVAELNPDEN C IRTDSGKEIS

Q8VDN2	459	GDASESALLK C IEVCCGSVME
O55126	88	PECLDAYNKI C QEVLPKIHEG
Q9QVP4	43	QIQEFKEAFS C IDQNRDGIIC
P07310	283	WNEHLGYVLT C PSNLGTGLRG
P36536	178	LNARPMEVFM C SVLKROGYGE
Q9H0C8	190	VISVEKTVKR C LLDTFKHTDE
Q9UDY4	175	RVSLEEIYSG C TKRMKISRKR
P62717	109	DLTTAGAVTQ C YRDMGARHRA
Q924X2	608	REGRTETVRS C TNESAAFVQA
Q9D1P4	59	DFSDFLSIVG C TKGRHNSEKP
Q9R1P0	74	KIYKLNEDMA C SVAGITSDAN
Q60864	461	YQKALDLDSS C KEAADGYQRC
P62192	58	KLPLVTPHTQ C RLLKLLKLERI
Q92600	99	RVCNALALLQ C VASHPETRSA
P13639	67	TDTRKDEQER C ITIKSTAI SL
P63028	28	YKIREIADGL C LEVEGKMVSR
P21333	717	LRVQVQDNEG C PVEALVKDNG
P07237	312	LEFFGLKKEE C PAVRLITLEE
Q3U5Q7	44	PRRFTVELPD C SLTHFVLGDA
P63000	178	VFDEAIRAVL C PPPVKKRKRK
Q64105	235	KLKSDGALVD C GTSAQKLLGL
Q8R5K2	247	SQQDAQEFLR C LMDLLHEELK
Q8R0Y8	235	YPPERMFVGA C AGLIGQSASY
P84091	251	IAIDDCTFHQ C VRLSKFDSER
P58252	466	RYVEPIEDVP C GNIVGLVGVD
Q8BGK2	106	HRPDPSTIEG C SQKPDNYLL
P30046	24	RVPAGLEKRL C AAAASILGKP
Q02566	949	TAKKRKLEDE C SELKIDIDL
Q9DCD0	402	DDFFKSAVDN C QDSWRRVIST
Q99683	869	GKAADIWSLG C TIIEMATGKP
P52825	489	YGQTVATYES C STA AFKHGRT
Q69Z37	1281	RCFKKYVELF C HLDTNLVQ GK
Q91VD9	710	ISRASQTMAK C VKAVTEGAQA
P17427	330	DSEPNLLVRAC N QLGQFLQHR
Q86SE5	51	IFSKYGKIVG C SVHKG YAFVQ
P27635	195	VAEKRLIPDG C GVKYIPNRGP
Q99NB1	491	LEGGDVSGAL C ISQAWPGMAR
O08663	135	PNGVFPKGQE C EYPPTQDGRT
P13639	369	PSPVTAQKYR C ELLYEGPPDD
Q9Z0N1	348	GVGTKIDPTL C RADRMVGOVL
Q9JIK5	754	MVFLKGKLG V CFDVRTEAVTE
Q9WUB3	496	GITPRRWLVL C NPGLAEVIAE
P07900	420	KVIRKNLVKK C LELFTELAED
P68366	295	QLSVAEITNA C FE PANQMVKC
Q8BMF4	163	TRDVPVGSII C ITVEKPDIE
Q9ESD7	344	GARGYLKASL C VLGPGDEAPL
Q6PEB6	119	LCAAHKTPKE C PAIDYTRHTL
P22315	193	IAFTQYPQYS C STTGSSLNAI
Q5JTH9	317	MLTLLKDLLP C FPEGLVKSCS
Q61553	121	YFGGTEDRLS C FAQSVSPA EK
P00403	200	GVYYGQCSEI C GANHSFMPIV
Q9D8B4	18	SYHEVPDGTQ C HRKTYIT TAL

Q60854	372	HHVKTNGILFCGRFSSPXXXX
Q9Y3I1	286	RLQLLPESFICKKLGENVAN
Q99615	175	MDRALEFAPACHRFKILKAEC
Q13155	143	LSLLVLHRLLEHFRVLSTVH
P14824	358	VSRVELKGTVCAANDFNPDAD
P35557	371	TTDCDIVRRACESVSTRAAHM
P07742	254	SAGGIGVAVSCIRATGSYIAG
Q9UHG3	258	WAVEGGNKLVCSGLLQASKSN
Q8BWF0	81	SGAKLGTVADCGVPEARAAVR
P49442	277	DTIKAALSRVCGGSVFPAAGA
Q78PY7	96	LRKKLIGKEVCF TIENKTPQG
P32921	66	AAMGEEYKAGCPPGNPTAGRN
O70468	471	VMVGQRVFEFCEVSEEGAQVK
Q9CQ65	55	LILGKIKNVDCVLLARHGRQH
Q8K1I3	109	QRGYSVPATAACRSTVQMSKGQ
O35286	226	EVGYSIRFEDCSSAKTILKYM
Q91V41	40	QFTEKKFMADCPHTIGVEFGT
O88712	54	ILKDVATVAFCDAQSTQEIHE
P63104	94	EKIETELRDIENDVLSLLEKF
P50991	379	GSGKLLKITGCASPGKTVTIV
Q4VXU2	339	GGHSGFGFVCFSSPEEATKA
Q99LC5	109	TQKQFSYTHICAGASAFGKNL
Q99KP6	114	SHALYQHDAACRVIARLTKEV
P63244	182	KLVKVNLANCKLKTNHIGHT
Q62465	99	PGQLTLRVACGLNFADLMGR
P21817	905	VRDDNKRLHPCLVDFHSLPEP
Q99J39	271	SNNIQGIVKECPPTETEERNR
P62701	181	DFIKFDTGNLCMVTGGANLGR
P13010	493	PNPRFQRLFQCLLHRALHPRE
P27659	253	KTHRGLRKVACIGAWHPARVA
Q9R1V6	23	CVLGTCPLARCGRAGVASLKG
O08528	438	HKA VRRLVPDCDVRFLRSEDG
P56380	6	XXXXMALRACGLIIFRRHLI
P50544	423	QIEAAISKIFCSEAANKVADE
Q1XH17	242	KPQTEFLMKFCLVTSRLQKIL
Q92945	176	QINKIQODSGCKVQISPDSGG
Q8R035	82	IPLDRLSISYCRSSGPGGQNV
Q9P2E9	1323	AEFEEAQTSAACRLQEELEKLR
P18031	92	ILTQGPLPNTCGHFWEMVWEQ
Q9DBF1	522	AWKQYMRRSTCTINYSTSLPL
Q8BP47	277	FRDHFFDRGYCEVTTPTLVQT
P63167	24	SEEMQODSVECATQALEKYNI
Q8BFR5	127	TAARHYAHTDCPGHADYVKNM
Q02566	907	QDNLNDAEERC DQLIKNKIQL
P61161	221	ETVRMIKEKLCYVGYNIEQEQ
P50914	42	DQNRALVDGPC TQVRRQAMPF
Q9ESW4	407	KLLPRKLRFFCDPRKREQMLP
P23198	177	FYEERL TWHSCPEDIAQXXXX
P20073	298	TNQEIREIVRCYQSEFGRDLE
P00966	132	GNDQVRFELSCYSLAPQIKVI
Q9CXI0	244	RVLKPGGRFLCLEFGQVNDPL
P53996	159	INCSKTSEVNCYRCGESGHLA

P47955	61	LANVNIGSLI C NVGAGGPAPA
Q9CXJ4	305	GSGLRKLRSRQ C QEQIARATGV
Q921G7	560	SIYDGPEQRF C PAGVYEFVPL
Q9D1I5	168	KPVI ¹ FLHPKD C GGVLVELEQA
P10599	69	VDDCQDVASE C EVKCMPTFQF
Q9Z1Q9	1184	GCAVAVASDR C SIHLQLQGLV
P31949	13	KISSPTETER C IESLIAVFQK
Q3ULD5	131	TGIGRVSGVE C MIVANDATVK
Q62234	778	NNPVKGSRFT C HGLTTAQSYI
P48039	130	GIAINRYCYI C HSLKYDKLYS
P21981	669	GLHKLVVNFQ C DKLKS VKGYR
P47857	170	GLVGSIDNDF C GTDMTIGTDS
Q9JI75	223	KSIWKEEPIH C TPPWYFQEXX
Q8NHW5	27	IIQLDDYPK C FIVGADNVGS
O43175	369	QGTSLKNAGN C LSPAVIVGLL
P05109	42	DDLK ¹ LLETE C PQYIRKKGAD
Q9DB05	42	FGGSSKIEE C EIYARAANMF
O08807	151	FKSINTEVVA C SVDSQFTHLA
Q76MZ3	329	ENVIMTQILP C IKELVSDANQ
Q99LC5	60	EVSCLVAGTK C DKVVQDLCKV
P10415	229	TLLSLALVG C ITLGAYLGHK
Q80ZW2	146	RFVSLRDGFV C ALLRFRQHVL
P15121	304	RNWRVCALLS C TSHKDYPFHE
Q6NXE6	484	VAKAALRDLG C HVELRELWTG
Q8K4Q0	362	LAERIMRSYN C TPVSSPRLPP
A2ASS6	23794	RKAYSTVATN C HKTSWKVDQL
Q9Z2W0	445	LAMHSIRETA C TTGVLQTLTL
P21980	620	QNPLPVALEG C TFTVEGAGLT
O35459	101	CFQKISKDSD C RAVVVSGAGK
Q3UK37	398	KKALHQLQRQ C QELARLAGA
Q8BH61	153	VRLSVQSSPE C IVGKFRMYVA
Q8BMS1	550	KDGPGFYTTR C LAPMMSEVMR
Q6Z WV3	80	ICANKYMVKS C GKDGFIHVR
O70468	619	DYSFVPEGFA C NLSAKLHFME
P23610	110	QERDARQRLV C PAAYGEPLQA
P51859	12	SRSNRQKEYK C GDLVFAKMG
P05213	316	DPRHGKYM C LLYRGDVVPK
Q921S7	207	SLARRTSAQN C TLATTWNRES
O00233	216	TRWAGKLLG C NIIPLQXXX
P29474	184	AKQAWRNAPR C VGRIQWGKLO
Q64737	134	WRAF ¹ TNPED C SFITSANFPA
P35579	917	TAKKQELEE C IHDLEARVEEEE
Q9W TX5	160	EAQVRKENQW C EEKXXXXXXXX
P63330	251	HQLVMEGYNW C HDRNVVTIFS
P48200	178	CRGQTTCRGS C DSGELGRNSG
Q3U0B3	195	LEAQ ¹ THIRAT C ISPGLVETQF
Q14690	89	SLCEGMRI C LGCVKEVNELELV
O08600	193	LTRTYQNVYV C TGPLFLPRTE
Q9CQJ8	42	IHRDKYRYFA C LMRARFEEHK
Q8BXV2	218	GYWRGSPGGL C SPSVEEKLEH
P53996	88	CGRGGHIAKD C KEPKREREQC
Q8CGC7	744	ERPAPAVSST C CATAEDSSVLY

Q80XN0	86	HSKGFLVFAGCLMKDKGDAGV
Q64737	237	GPNTGGMGAYCPAPQVSKDLL
P00558	99	LGKDVLFLLKDCVGPVEVEKACA
P06213	1261	DGGYLDQPDNCPERVTDLMRM
P23396	97	YAEKVATRGLCAIAQAESLRY
Q9BQ04	31	LFEQYGVLECDIIKKNYGFVH
P21980	143	GHFILLFNAWCPADAVYLDSE
Q99439	164	FDDATMKAGQCVIGLQMGTNK
Q60597	283	SSEKRFGLLEGCEVLIPALKTI
Q8R2Y8	88	KMGKGVAAQCSHAAVSAYKQ
Q3ULJ0	104	VIPHQFIHKICDEITGRVPEK
Q61733	345	PIRLFMELVTCGLSKNPYLSV
Q3U1J4	128	TGIIGIIDPECRMIGLRLYDG
Q9D7B6	157	LCTMEKFASYCLTEPGSGSDA
Q921H8	123	TVPLSTVNRQCSSGLQAVANI
Q96EK6	113	LIIEHKFIHSCAKRGRVEDVV
P80318	398	ERNLQDAMQVCRNVLLDPQLV
Q9NYY8	377	SKVVDNIHGCPLRIMINILQ
Q99MR3	771	WHSARLRIFLCLGPREAPGAA
Q99NB1	271	EQEMAKEAPVCTPESMSSEDM
Q9CXY6	37	VPHIPFDFYLCEMAFPRVKPA
O89103	52	KLSAAEAQHRCNENGGNLATV
P17710	942	HQTVKELSPKCTVSFLLSEDE
P41216	242	GSDLVERGKCGVEIISLAL
P04075	240	KPNMVTGPHACTQKFSHEEIA
P15532	109	SKPGTIRGDFCIQVGRNIIHG
Q9H4A6	280	QLLDLDPEVECLKANTNEVLW
Q9D8N0	266	APAPEEEMDECEQALAAEPKA
P27695	65	PSGKPATLKI CSWNVDGLRAW
Q3TXS7	898	QLKVLSTMTETCRYQPFKPLSI
P84091	212	MKSYLSGMPECKFGMNDKIVI
Q80XN0	115	DRLRTIQLNVCNSEEVEKAVE
P78527	4045	EKNWYPRQKICYAKRKLAPAN
Q2TPA8	136	TRGTYLTSKACIPFLKKSKEG
Q8K297	364	LRALHEQEIDCQLVEAVDGKA
P61088	87	HPNVDKLGRI CLDILKDKWSP
P62754	83	VRLLLSKSHSCYRPRRTGERK
P34932	34	ETIANEYSDRCTPACISFGPK
P11499	564	EESKAKFENLCKLMKEILDKK
Q8QZS1	94	IIKGAGGKAF CAGGDIKALSE
Q3U5Q7	422	MTYQRMENPSCHLVDASPSRE
Q6PB66	207	VTYQRLIAAYCNVGDIEGASK
P48962	129	SGGAAGATSLCFVYPLDFART
Q64514	614	LREGLHYTEVCGYDIASPNAG
Q07065	100	AAAAASSSASC SRRLGRALNF
P21980	10	XMAEELVLERCDLELETNGRD
Q9QYI3	58	YNYITKAIDMCPNNASYGGR
Q8QZR5	238	ARDRCCPRVLCVINPGNPTGQ
Q9CPR4	15	SLDPENPTKSCKSRGSNLRVH
P50570	607	YKDLRQIELACDSQEDVDSWK
Q9D7X3	171	GPNDGFLAQLCQLNDRLAKEG
Q922B1	244	TASQAAELRSCYLSSLDLLE

Q91V80	196	GTALYYAIKNCSDKAKERGRD
Q9WVQ5	187	AHAMNEYPDSCAVLVRRHGVY
P34932	417	NSPAEEGSSDCEVFSKNHAAP
P49327	1471	RREPGGNRLRCVLLSNLSSTS
Q8BIJ6	1002	KHTSETADALCPRCAEVIGAK
Q91WU5	33	KTSADLQTNACVTRAKPVPSY
Q9JIF0	364	DFKGQLCELSASTDYRMRXXX
Q64310	32	KQYLPHVARLCLISTFLEDGI
Q9QYB1	189	LDGDEMTLADCNLLPKLHIVK
Q922Q8	137	VAGDCLDEKQCKQCANKVLQH
Q9D517	217	RTKGFTTAVQCLRGTVAAIYD
Q8TEX9	708	VFEEVFKLLECPHLNVRKAAH
P14873	1913	EKTERTIKSPCDSGYSYETIE
P41216	55	ATRPKALKPPCDLSMQSVEIA
Q8BKC5	266	EATLQLSLKLCGDTNLNMQR
Q8BFZ1	72	ILDAHTRKQICIVDKVTQTST
P21817	2363	VVRLLRKPECFGPALRGEFG
Q9NVM4	262	FSKQVSSSAACHSRRFEPLTS
O70468	562	VGAKDQAVFKCEVSDENVRGV
Q9D289	149	VTAEVSSMPACKFQVMIQKLX
P30999	450	DQDNKIAIKNCDGVPALVRL
O08529	640	ALEEAGFKLPCQLHQVIVARF
O08663	468	FEHTILLRPTCKEVVSRGDDY
Q9WV35	71	YSSGRNKTFLCYVVEVQSKGG
Q924M7	197	TEAMASALRNCFSHLMKSEKK
Q9CZU6	101	IRFRGYSIPECQKMLPKAKGG
Q8CG76	222	TRQVEAELLPCLRHFGLRFYA
P62880	149	LPGHTGYLSCCRFLDDNQIIT
Q86VP6	571	ATPYIKDLFTCTIKRLKAADI
Q8TEX9	42	LRAPAALPALCDLLASAADPQ
P62736	376	EAGPSIVHRKCFXXXXXXXXXX
P62838	111	KVLLSICSLLCDPNPDDPLVP
Q9ES28	328	SPEAQQRVGGCFLSLMPQMRT
Q9EST5	27	AAVRELVLNCKAMDGKIEGL
Q9Z2Z6	136	GIMTPGERIKCLLQIQASSGE
P62908	119	LLGGLAVRRACYGVLRFIMES
P49368	213	KIPGGIIEDSCVLRGVMINKD
Q9Z0X1	316	GGGFLGSELACALGRKSQASG
Q14684	197	DQNLKFIDPFCKIAAKTKDHT
P06213	1165	FVHRDLAARNCMVAHDFTVKI
O70433	254	WHNDCFNCKKCSLSLVGRGFL
Q9Z2I0	329	NLTRPQLVALCKLLELQSIGT
Q9GZT4	113	YIVVPQTAPDCKKLAIQAYGA
P80316	253	VVDAKIAILTCPFEPKPKTK
P47738	321	FALFFNQGCCAGSRTFVQE
Q99836	216	SIASELIEKRCRRMVVVVSDD
P50462	171	DKDGELYCKVCYAKNFGPTGI
P50544	216	VASGQALAAFCLTEPSSGSDV
P05125	129	AGPRSLRRSSCFGGRIDRIGA
P31749	296	GHIKITDFGLCKEGIKDGATM
P14618	474	HLYRGIFPVLCKDPVQEAWAE
P06151	163	FPKNRVIGSGCNLDSARFRYL

Q60610	1227	GPRQANRKAGCAVTSLASEL
P17742	115	PNTNGSQFFICTAKTEWLDGK
Q8BIJ6	91	SDMELEIQQKCGFSELYSWQR
Q8VCT3	181	QAVLNRAFFPCFDTPAVKCTY
Q99MR8	591	VLGDLSSSEDGCTYLKSSINGV
P42704	930	SARLQWFCDRCVANNQVETLE
Q99LB2	89	GEGLSVTGIVCHVGKAEDREK
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Q9CPR4	144	GRINPYMSSPCHIEMILTEKE
Q02248	213	QNTNDVETARCTAGTLHNLSH
Q9CQJ8	103	RYECYKVPEWCLDYWHPSEKA
Q9CPP0	41	PVTMDSFFFGCELSGHTRSFT
Q60864	471	CKEAADGYQRCMMAQYNRHDS
Q16665	520	SPEPNSPSEYCFYVDSDMVNE
P06801	468	FPGVALGVVACGLRHIDDKVF
Q8BGQ7	903	DNEAGKITCLCQVPQNAANRG
P21333	810	GQGDVSIKIKCAPGVVGPAAE
O08749	477	AALALEYGASCEDIARVCHAH
Q9R0Y5	187	GTVDTVFSEVCTYLDLXKXXX
P21817	3635	SKQRRRAVVAEFRMTPLYNLP
O35855	229	VRAWIGGVGDCKLGGNYGPTV
P49327	634	GLSWEECKQRCPPGVVPACHN
Q8QZS1	270	FEEHMDKINSCFSANTVEQII
P20618	224	DVYTG DALRICIVTKEGIREE
Q9JHR7	414	EGPQEWVFQECKDLNAVAFRF
Q9Z0N1	101	LDDPSCPRPECYRSCGSSTPD
Q15631	225	RGFNKETAAACVEKXXXXXXXX
P05455	232	EMKSLEEKIGCLLKFSGLDD
Q14166	361	RPGVLLNQFPENLLTVKDCL
Q9WTP6	208	VEYYRKRGIHCAIDASQTPDI
Q8K298	970	PFLSPLEGHICLKISCQVNSA
P80314	395	EAERSLHDALCVLAQTVKDPR
Q9WTP6	232	SILAAFSKATCKDLVMFXXX
Q6PDY2	169	RAEYTEASGPCVLTPHRDNLH
Q99J39	447	DSSLKGLTSSCGLMVNYRYL
Q1XH17	144	PQQMQLQEAACMRKEKTVAVL
O15519	254	YKMKSKPLGICLIIDCIGNET
O08528	386	QIVSTRSASLCAATLAAVLWR
P63037	302	GQIVKHGDIKCVLNEGMPYR
P63318	296	YNVPVADADNCSLLQKFEACN
O70433	71	WHEGCFHCSRCSGSSLVDKPFA
O08997	41	FNIDLPNKKVCIDSEHSSDTL
P47964	48	KFVRDMIREVCGFAPYERRAM
Q8R127	98	MAKQAKLVLNCGVPYRFYGE
Q8BK08	78	ETARWITVGNCLHKTAVLAGT
P07814	105	FTSTINELNHCLSLRXYLVGN
Q9D6Y7	107	HTRNPTYKEVCSEKTGHAEVV
Q6ZPY7	1187	LDPHTSHSWLCDGRLCLHDP
O88544	70	VISRQLLTDFTHLPLNLPDST
P62258	97	QMVETELKLIACDILDVLDKH
P19096	893	RVIFPGTGYLCLVWKTARSL
Q9JK42	195	PKHIGSIDPNCVSDVVKDAY

Q91VM9	67	PFHDIPLKADCKEEHDIPRKK
Q8R1H0	68	WRRSEGLPSECRSVTDXXXXX
Q9CQT1	199	HEMGRLEHTFCTETRPYNQGA
P27546	636	ETPGSQPSEPESGVSROEEAK
P63028	172	FFKDGLEMEKXXXXXXXXXX
Q9WV34	310	LELTPTSGTLCGSLSGKKKKR
P23229	86	RANRTGGLYCDITARGPCTR
Q8BRK8	490	RSGSSTPQRS CSAAGLHRARS
Q61151	106	LVDYITISRGCLTEQTYPEVV
P16125	294	IENEVFLSLPCILNARGLTSV
Q8BH86	252	APLAFASPPGCMVMVPKDTAS
Q9QYB1	100	KIEEFLEEVLCPPKYLKLSPK
Q9DC61	265	VGVEHEHLVECAKYLVGAEF
P62820	126	NVNKLLVGKCDLTTKKVVDY
Q9DB77	192	YKNALANPLYCPDYRMGKITS
O35215	57	TLLMNKSTEPCAHLLVSSIGV
P21980	98	WTATVVDQODCTLSLQLTTPA
Q8BVE3	73	QEMLQTEGSQCAKTFINLMTH
Q9CR51	69	EAAALGSHGSCSSEVEKETRE
Q9DBB5	52	RSLPGATAAECASNKKIYTV
P35247	35	TYSHRTMPACTLVMCSSVES
O00232	255	KHYRAIYDTPCIIQAESKWOQ
P53395	279	AALKIPHFGY CDEIDLTLQLVK
P23229	541	PSGICLQVKS CFEYTANPAGY
P00533	190	FQNHGSCQKCDPSCPNGSCW
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Q99MK8	439	LQRDVNRRLGCLGRGAQEVKE
P70695	282	PNGKLRLLYE CNPVAYIIEQA
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P47754	157	KVDGQQTIIACIESHQFQAKN
Q9DCS1	41	SALAKLLLAGCSLLRIPASAS
P30086	168	YELRAPVAGTCYQAEWDDYVP
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P46782	155	RRVNQAIWLLCTGAREAAFRN
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Q05816	127	IVECVMNNATCTRVYEKVQXX
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Q9R062	89	ELGITLTKLHCWSLTQYSKCV

P60603	15	VGPYQSQPSCFDRVKMGFVM
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P47809	244	LLDRSGNIKLDFGISGQLVD
P51637	19	LEARIIKDIHCKEIDLVRNDP
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Q6NVF9	159	LHGQSPVVTPCNKQFLSQFEM
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Q04760	61	RVLGMTLIQKDFPIMKFSLY
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P97821	447	YFRIRRGTDCEAIESIAVA AI
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P09936	220	GEVRFSAVALCKAAXXXXXXX
P04350	239	VSATMSGVTTCLRFPGQLNAD
P49458	39	LKYRHS DGNL CVKVTDDLVLCL
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P50462	58	TVAHESEIYCKVCYGRRYGP
P07310	146	SIKGYTLPPHCSRGERRAVEK
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Q9QY76	41	KLGNPTDRNVCFKVKTTVPRR
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Q01853	691	GFSGADLTEICQRACKLAIRE
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P36578	250	LAPGGHVGRFCIWTESAFRKL
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P06151	84	TPKIVSSKDYCVTANSKLVII
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P62701	41	PSTGPHKLRECLPLIIFLRNR
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Q62234	1601	NEKPLTSDDHCSLKFEAGKTA
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Q9JLV5	636	ELVRALQSLACGKPTQRVLTK
P52825	639	SGRNAREFLHC VQKCLEDMFD
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P23492	142	IRDHINLPGFC	GQNPLRGPND
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P20810	661	IDAL S GD L DS C P S T T ETS Q NT
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Q9DB29	47	SLLADRLVRKCDVLRNRFSGY
Q64514	209	VWHDGETWRACVDSNENGDLS
P54886	612	RDSKCEYPAA CNALETLLIHR
Q8BGH2	237	KWEGVWRELGC LSRTASFAVR

P49368	173	KAISRWSSLA C NIALDAVKMV
Q924D0	236	KAWGAHVTA V CSKDASELVRK
P49411	290	ERGILKKGDE C ELLGHSKNIR
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P07900	598	VSNRLVTSP C CIVTSTYGWTA
Q9ER35	130	KSKTRQNT V GCGAEGAEPQGV
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Q99J39	205	NLERVTWH S P C EVLQKISECE
Q99N94	167	GEATVKFL R S C HLEVGMKNNV
P17812	362	VRYHEAW Q KL C SAHGVLVPGG
P14618	152	ITLDNAY M EK C DENILWLDYK
P29474	1050	TPMTLV F G C RC S QLDHLYRDE
Q8CC88	161	RAGTAFY I D Q CAVRAATEGRT
P16125	36	VVG V G Q VG M CA I SILGKSLA
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Q14181	198	AG N ISL K VL G C PEALTGSYKS
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P14550	134	PF P KN A D G TI C YDSTHYKETW
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P04075	339	V K RALAN S L A C Q G KYTPSGQA
Q99MK8	340	H V RISDL G L A C DFSKKRPHAS
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P52825	84	DS Q FR K TE V L C KDFENGIGKE
Q15149	3295	K S HRV P L D V A C ARGCLDEETS
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P09528	131	L A T D K N D P H L C DFIETY Y LSE
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Q99536	50	AAAASPELLRCLVLTGFGGYD
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P47712	151	CPDLRFSMALCDQEKTFRQOR
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P97351	111	HGMDLTRDKMCSMVKKWQMI
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P61106	26	IIGDMGVGKSCLLHQFTEKKF
P49717	604	TLSIAKAGIICQLNARTSVLA
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P06801	164	ERILGLGDLGCMGMGIPVGKL
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P35486	41	ANDATFEI K CDLHRLEEGPP
P49915	449	PGPGLAIR V I C AEEPYICKDF
Q8VE38	240	LVHEFPEK I CS S FHVTKQTAQ
Q7TPV4	890	MHHLCRARR Y C H EVGP C A E AL
P30101	244	KFIQENIF G I C PHMTEDNKDL
Q8BTM8	1997	VVPPSGRE E P C LLKRLRNGHV
Q9JIK5	585	IPEVDLVV Q S C PPKDVESYIH

Q8BH59	435	PLPAEILAGG C AGGSQVIFTN
O35737	290	GSTFQSTTGH C VHMRGLPYRA
Q60597	604	TLDGQPRSMT C PSTGLEEDVL
Q8BW75	26	GMAAAKLLHD C GLSVVVLEAR
P07355	133	TDEDSLIEII C SRTNQELQEI
P24270	460	VLNEEERKRL C ENIAGHLKDA
Q99JR6	133	SAALPELKLL C GADVLKTFQT
O70468	715	EEWVFDKLL C ETEGRVRVET
Q8R1G2	198	STLTQKLKEH C IVNYQVKTF
Q91VI7	404	SLRELDLSNN C MGGPGVLQLL
Q15149	950	MRGRLPLLAV C DYKQVEVTVH
Q91WS0	83	RCWRSKKFPF C DGAHIKHNEE
Q00610	918	YCEKRDPHLA C VAYERGQCDL
P06151	293	INEDVFLSVP C ILGQNGISDV
Q8QZR5	254	NPTGQVQTR C IEAVIRFAFE
Q8R016	164	VEKYGVVPPK C FPESHTTEAT
Q8CC88	1415	RTNATPRHNN C VTLTHTNQVV
P10620	50	TRKVFANPED C VAFGKGENAK
Q8BFQ4	287	LDGKHTGPIT C LQFNPKFMTF
P56546	44	PLVALLDGRD C TVEMPILKDL
P80313	370	FFTGCPKAKT C TIILRGGAEQ
Q9QUM9	47	LTSVAVRGKD C AVIVTQKKVP

Negative dataset S_L^- contains 2300 non-SNO sites and peptide fragments

Uniprot ID	Site	Sequence
Q8BMS1	97	SAVLISSKPG C FVAGADINML
Q9D892	154	RGSRDFGWDP C FQPDGYEQTY
B1AR13	70	ELVAGKTYRW C VCGRSKNQPF
Q497Q6	228	VPMSYIESEF C KKSRXXXXXX
Q8BMS4	238	HVSHLEMF I Q C CYQVLKPGGS
Q64702	422	DENQHSSNH H CLGKTPFPFAD
Q9D0K2	28	RSSRGALHKG C VCFYSVSTRH
Q9Y272	24	DSELSIPAKN C YRMVILGSSK
Q9CZC8	186	AAERITEGVR C ICNHLSLATK
A8C756	535	TWVFPVLSVL C GGNLDQRSYV
Q9WU78	691	TEILVRFQNK C SDIVFARKTE
Q99MK8	208	GRGGFGEVYG C RKADTGKMYA
P19838	703	VEHDNISLAG C LLLEGDAHVD
O08715	444	NPRGDDNFV A CMANNQS SVLS
A2ASS6	30880	WTKGDKELDL C EKISLQYTGK
P54886	183	YEAMFTQYS I CAAQILVTNLD
P12382	518	VEARGRYEEL C IVMCVIPATI
Q6PDN3	669	FEQKGGWHS L CIQEVFPEDTG
P04350	201	QLVENTDETY C IDNEALYDIC
P70398	1340	QVAQEQFF L M C TRCCMGRPL
Q15149	850	QWSWMLQL C CEAHLKENAA
O55229	53	RDAQRRAYQ W CREYLGGAWRR
P78347	123	RKTVEDYFC F CYGGKALGKSTV
P78527	2248	IKTLVECWKD C LSIPYRLIFE
Q64467	29	DRCP C PC C PC C PC P VIRPP
O00468	488	TCAVKNGQ A ACECLOACSSLY

P54310	418	DL LGSTGERI C LAGDSAGGNL
P70388	1296	FYRVKKNMDQ C SEIVKCSISS
Q9JKS4	606	RCYEQFFAPI C AKCNTKIMGE
O15355	495	APDTSGDGTG C DNMTCI I ICF
A2ASS6	22724	TYKVTGLTEG C EYFFRVMAEN
P98156	84	ESDFVCKNGQ C VPNRWQCDGD
Q9R1V6	692	AGTVCSGNGV C SNEKVCVNR
Q6P3A8	28	GAERRRCLR C AALVQGFLOP
Q8VDQ1	180	LAGQIGHLLG C SRVVGICGTQ
Q6P2B1	248	SSNLHEAASD C VCSALYAIEN
A2ASS6	6333	IKAGDSARLE C KITGSPEIQV
P25205	123	PRTLTSFCFLS C VVVEGIVTK
Q8BFP9	17	LRGGTSVRPL C AVPCASRSLA
Q8WX93	1086	MAANPQGRIS C TGRLMVQAVN
Q14498	303	YGFITFS DSE C AKKALEQLNG
Q9P2E9	1216	EKHMAAASAE C QNYAKEVAGL
Q9EPL8	567	DLTNVIQKMI C EYSEEVTPIA
Q9JHU4	790	IESVRTYERT C EKVEERNTIS
O70433	224	CDLYAKKCAG C TNPI SGLGGT
Q810L3	306	KMEETLTCI I C QDLLHDCVSL
Q3UH68	1019	FHIQCFRCGI C KGQLGDAVSG
Q9D1G3	90	LSGHVLF AKL C TMVAPQLRSW
Q9DC61	87	VASQNKFGQF C TVGILINSGS
P62702	181	DFIKFDTGNL C MVTGGANLGR
Q5VYK3	1638	NVKYKIVAI S C AADILKATKE
A8C756	1722	ELQGTLSLWR C VLTLLQSEEQ
Q8K411	313	WDKPREFHIT C GPDSLATETA
Q6P2B1	527	SAAAKAIHNI C SVCRDHMAQH
O70433	101	DCYSNEYSSK C QECKKTIMPG
Q9CR68	236	ANAGDFGGY C PCHGSHYDAS
P26039	1939	ALVTKAGALQ C SPSDVYTKKE
P97823	173	DISVLQCHGD C DPLVPLMFGS
Q9D172	175	HGAKKPIGL C CIAPVLAAKVI
P53569	421	RKHPNMKG VV C GEIERLLFRS
Q8BP48	22	DGCSSEAKLQ C PTCIKLGIQG
Q91YR7	339	RNLIMKGTEM C PKSEDVWLEA
P46459	334	I I I FDEIDAI C KQRGSMAGST
Q99K43	209	DVVCEDESAF C LSLENIATLQ
A3KMP2	376	QLAKDVGLPL C QALLEAENGN
P19838	666	HLAMMSNSLP C LLLLVAAGAD
P13639	751	MEPIYLVEIQ C PEQVVGGIYG
Q8BWM0	109	LQLTLYQYKT C PFCSKVRAFL
Q5VYK3	1722	CYRQELCKLM C ERCLKLSTWKV
Q9JKS4	550	ASSRTPLCGH C NNVIRGPFLV
Q8K4Q0	1047	CIAVADKDSI C FWDWEKGEKL
Q8JZN7	506	DSSDPKTFVHCATIYKRYMD
P54136	8	XXXMDVLVSE C SARLLQEQEE
Q9Y696	35	AGSDGESIGN C PFSQRLFMIL
Q9JL8	328	LPVRMVCAS T C YRAETDTGKE
P98156	212	TSSCIPLSWV C DDDADCSDQS
Q8K298	1114	VDIRLWQPDAC YKPVGKPXXX
P27695	99	PDILCLQETK C SENKLP AELQ

Q00987	2	XXXXXXXXXXMCNTNMSVPTDG
Q8JZN7	488	SLLDTSLDTTCDVACL MFDSS
O00468	494	GQAACECLQACSSLYDPVCGS
P00533	215	ENCQKLTKIICAQOC SGRCRG
P26196	385	RVFHDFRNGLCRNLVCTDLFT
Q9Z2W0	269	PRLDNLHSCFCALQALIDSCA
O89103	464	GWELAPNGVFC SRGTVFSELP
Q3UHX9	270	YWG YTVRLASCLSAVFAEAPF
Q9CQ60	156	ILGVGPDGHTCSLFPDHPLLO
P48725	1688	HVASIGCANPCADDELEQEGV
O60610	437	RPQYYKLIEECISQIVLHKNG
A2ASS6	19651	RINKDELIRQCAF RVPGLIEG
Q12879	460	MNVKKCKGFCIDILK KLSRT
P52825	13	PRLLLRDWPRCPSLVLGAPSR
Q6PAR5	1167	LMAQLQETMRCVCRFDNRTCR
Q8R5A6	456	EGFSHFHLYVCAAFLVRWRRE
Q99JR6	163	QEIVEKFGLVCVSRSGHDPER
Q8C7H1	48	GALPNCFGHHC TKRVLLSDGF
Q9R0Q7	76	HKRTDRSILCCLRKGESGQSW
A2ASS6	27041	RKAYATITNNCTKN TFKIENL
O00468	447	DSDCWROQAECRQQRAIPSKH
P38060	174	VRGYVSCALGCPYEGKVSPAK
Q9EST5	114	STLEPLKRLDCLKSLDLFGCE
Q9JI57	480	WSDMSSVSEDCGPGTSGEIAM
Q01320	215	LKPFSGEDYTCITFQPDLSKF
P08752	287	EKITQSSLTICFPEYTGANKY
P15105	42	WVDGTGEGLRCKTRTLDCPEK
Q9JL8	324	AFRDLPVRMVCASTCYRAETD
P16546	1930	TVHKDRVNDVCTNGQDLIKKN
Q9BSK1	188	RTERGEKPHGCGECGKTFMRK
Q8R1B4	750	KAMKMGDWKTCHSFIINEKMN
Q99683	226	MITPHNKVYCCDSSFMKGLTE
Q60597	215	EIIRRLEMAYCQHIGVEFMFI
Q3UKJ7	383	VKIWNMKTTECSNTFKSLGST
A2ASS6	17608	EVFIDIGAQDCLVCKAGSQVK
Q80UJ7	117	MNNDFP PRAHCLVRWYGLREF
Q4VXU2	232	VMRDNSGHSRCFGFVNFEKHE
P12277	74	PGHPYIMTVGCVAGDEESYEV
P12277	146	SIRGFCLPPHCSR GERRAIEK
Q9ER72	138	QDGKVTWYCCGPTVYDASHM
Q9BXJ9	20	ENALFKRILRCYEHKQYRNGL
P47712	220	KALYESGILD CATYVAGLSGS
P98170	227	WSEHRRHFPNCF FVLGRNLNI
O75694	102	ELVEQFGHMQCNCMMGVFPPI
Q9CQA3	198	CILCACCSTSCPSYWWNGDKY
Q8NBI5	382	TSLLCLGFALCASVPILPLOY
A2ASS6	6853	IDISQSGEYTCVVSNNAGQAS
Q99JY0	29	ALRSSIRPLSCSSQLHSAPAV
Q91W97	133	GTELFDYVADCLADFMKTKNL
Q3U1J4	604	TTFESSHYLLCALGDGALFYF
A2ASS6	14145	CTPEDIKTYTCDAKDFKTS CN
Q9EQ80	253	LLLHTGMGRLCTLDES VSLAI

Q8BIF0	11	MVARLTAFLVCLVFSLATLVQ
Q5VYK3	1768	EALAEILLETCKSITYSLENK
Q64727	85	PPAFIKVENACTKLVQAAQML
Q61598	203	RTDDYLDQPC CETINRIKLYS
Q9Z2I0	71	YLCFKGEPLSCWTQRPECQGT
Q3TL44	5	XXXXXXMRWGC HLPRTSWGSG
P39053	708	FSELLANLYSCGDQNTLMEEES
A2ASS6	1868	VLEGETARFR CRVTGYPPQKV
Q8R2L5	137	DPAYLKDPRVCNIRYREXXXX
Q8BK08	116	SLPAGVLSLACTLYGISWQF
O70145	513	GIFPKAFVEGCAAKNLEGIPR
Q9Z1W9	111	VAIKRINLEK CQTSMDELLKE
A2ASS6	28120	KKAWVSVTNN CNRLSYKVTNL
Q9JHU4	3710	TVTRSSLQSQCLNEVLKAERP
O95372	147	HPLAGIVALSCWLP LHRAFPQ
Q9D051	169	SQCFAAWYGHCPGLKVVPWN
Q791V5	268	YSPIYTSWIDCWMLQKAGNM
Q86VP6	206	I IALGHLVMS CGNIVFVDLIE
Q9D8B4	115	THSYGTAAMGCVYMGTAALF
Q9DAS9	69	SENPFKDKKTCI I LXXXXXXXX
A8C756	1859	GWQSPHSQKLC H LQRIASEQS
Q9UHG3	242	NAFVGAVSLS CSDSGLWAVEG
Q99MK8	154	DLFQPYIEE I CQNLRGDVFQK
P02463	39	GDCGGSGCGKCDCHGVKGQKG
Q8R349	72	SRKLDKLYEACRYLAARCHYA
Q13144	95	ATGVQETFVFC CWKAAQIKEH
P78527	2363	QNTMEDKFIVCLNKVTKSFPP
Q62407	1682	RRGLVIVTELC TEELLERMAR
P42574	220	KDGSWFIQSLCAMLKQYADKL
P14780	674	VFQYREKAYFCQDRFYWRVSS
Q91YE3	279	INGRTKAMVACYPGNGTGYVR
Q9CZC8	235	VFSPADDRLDCCAGQDSLEKQ
Q9D710	127	LTLCIVFLMTCKPPLYMGPEY
P06213	286	QDWRCVNF SFCQDLHHKCKNS
Q923E4	494	RLGGEYAKLCCNPVKLSEITE
Q3UZY0	300	HRATVLQIHFC DWQAWAWEWRQ
P32020	288	YDMSKEAARRCYEKSGLTPND
A8C756	1752	VTTAMSQGNTCQSTEF AFCQV
Q99JW4	196	DKMGVPICGACRRPIEGRVVN
Q9D517	109	EIDFLCGWTMCERFGVLGSSK
P14618	317	FLAQKMMIGRCNRAGKPVICA
O70572	358	EEAREVAIILCIPSVGLVLVA
Q5SSW2	201	EMLEEWRPLMCPFDVTMOKAI
O95372	213	KTYPGVMHSSCPQEMAAVKEF
A2ASS6	3535	VAKLSVTVTGCPKPKIQWFFN
P84095	6	XXXXXMQSIKCVVVG DGAVGK
Q8CHP8	297	EDVKSNOESDCMFKKKMVPDF
Q06587	87	LRSKNKECPTCRKKLVSKRSL
A6H611	376	ERYNIEPSLYCPFLSLGACME
Q91YT0	385	KHESCGQCTPCREGVDWMNKV
P23368	190	PVGKLCCLYTACAGIRPDRCLP
P25205	126	LTSCFLSCVVCVEGIVTKCSL

Q14315	535	VREAGDGVFECEYYPVVPGKY
P48725	758	LEEQLQKKESCHREMLTQELE
O60502	863	DPSVAKSMMA CLLSSLKANGS
O00468	1597	DEKSPCQPNPCHGAAPCRVLP
Q9QUR6	410	SFLSPGVIYHCDLTKEELEPM
Q9CZW5	217	KECLEDTVAVCILEGFQNEQS
Q16665	255	RHSLDMKFSYCDERITELMGY
Q9CXJ4	91	PAVLWQHPRCLIALCEAKES
Q9QYJ0	202	EGEVINEKDRCKKCEGKKVIK
Q9ET80	402	DQAALAAARQCDIARAVAREL
A2ASS6	33564	VARNKHGEDSCKAKLTVTLHP
Q6NXE6	206	CSGIRCVRHACLKHEQNRQDL
Q8TAQ2	486	NPQEYLTSTACRRNLAGDVCA
Q64462	330	TTSGISWFLYCMALYPMHQOR
Q9D1G3	382	FVVTTLWLGP CDIVYLSVLN
P70398	471	SPEQLDHLFD CFKASWTNASK
Q9DCD0	171	AAKVGTEGPCD WVGDEGAGH
Q6A0A9	1097	HLNALSTDSACRREAALAAV
P11142	17	VGIDLGTTYS CVGVFQHGKVE
P97822	27	EEVTELVLDNCLCVNGEIEGL
Q99798	126	SKVAVPSTIHC DHLIEAQVGG
Q9D883	155	SPVTDFREACCRQYEMGECTR
P28650	339	WGVTTGRKRRCGWLDLMILRY
A2ASS6	4698	VKVDDSGTYSCEATNDVGS DS
Q12879	1412	RSSLRSTASYCSRDSRGHNDV
Q62407	1057	KLSTAKDELTC SARLTVRPSL
Q9BQG0	623	SCDLLGDIQTCIRKSLGEKPR
P14873	143	RHKLLVLTGQCFENTGELILO
P61978	205	IGGKPD RVVECIKIILDLISE
P62753	100	GERKRKSVRG CIVDANLSVLN
Q8K0S0	250	APKGS LGDRFCRDRLPLLDIA
Q9H9Q2	178	NNIVKTLHEWCDGCEAVLLGI
Q9JMA1	122	NTCYMNATVQCIRSVPELKDA
Q62407	1661	ARLLARLQHGCVLYFHEAFER
O60610	314	SGTTIALKVGCLQLINALITP
P21817	844	RGPHLVGPSRCLSHTDFVPCP
Q9CQN1	657	NPRHTLIKKL CQLRESEPELA
Q14139	202	PENLLPFAVQCRNLTVSNTRT
P68404	409	KPPFLTQLHSCFQTMDRLYFV
O00429	300	NRLLMHHIRDCLPELKTRINV
Q64277	150	ENASGLDYQSCPTSEDCENNA
Q9ER60	145	MFIMITILTNCVFMTMSNPPS
P09382	3	XXXXXXXXMACGLVASNLNLK
Q9JLV5	298	LKNGKTEDLACMYKLSRVPN
Q62312	486	ALVLWEMTSRCNAVGEVKDYE
Q99KN2	142	WEVDEEDEYECVSVLSSHTQD
Q9CXT8	342	NLSSKLAQLTCHGNLCHSFQS
P47757	147	AGDGSKKIKGCWDSIHVVEVQ
P13639	388	DDEAAMGIKSCDPKGPLMMYI
O95219	318	LFYAEALRAVCRKHELMQYDL
Q00987	441	PLNAIEPCVICQGRPKNGCIV
Q14181	259	EPVTLLGQIGCDSNGKLNKS

P70388	680	ITQLTDENQSCCPVCQRFVQT
P31327	761	KNVVSQKTSACFEPQLDYMVT
P21817	2158	SVEDTMSLLECLGQIRSLIV
Q9BSK1	303	TGDKPYKCSDCGRTFYFKSDL
P43235	221	MYNPTGKAAKCRGYREIPEGN
Q810L3	476	SLPTAAPDYMCPPLQSHAICT
Q9H2U2	283	QCWKALLMKKCNNGAINCTNV
Q9JLJ2	220	QGGAAATGQFLCHHREVAKISF
Q9D1C3	6	XXXXXMLSATCRRRLAPALRRL
Q14444	257	DSTHNHQNGLCHEEEAASAPA
P26639	558	IKDAIGRYHQCATIQDLDFQLP
P62918	90	EGIHTGQFVYCGKKAQLNIGN
Q06203	237	TEGWVVSSES CSFLSIGARYY
Q9Y570	347	GKFQMQVLPQCGHAVHEDAPD
P00533	1146	PEYLNTVQPTCVNSTFDSPA
P21333	483	TVGQACNPSACRAVGRGLQPK
P07742	790	SLENREECLMCGSXXXXXXXXXX
Q9BUJ2	218	DTLVAIDTYNCDLHFKVARDR
O08715	392	EALPPKTYVSLSSPLSGPTK
P53996	102	KREREQCCYNCGKPGHLARDC
P16675	235	NRLWTSLQTHCCAQNKCIFYD
Q9ESD7	1716	LRPSQLLHLFCQQHRIKAPVY
Q5UIP0	2450	QLFEMHEKLS CMANSVIKNLQ
Q8TEX9	95	LTALQRETEHCVSLSLAQLSA
Q5UIP0	880	KLDEVPKVYSCLNKLEKLLG
P54822	113	AGIIHLGATSCYVGDNTDLII
Q8VEM8	252	KFVVPKPRSECTKAEQLVVT
Q8VC74	323	TPYRDLSAAFCAKFLSRKRX
Q9ER60	1562	ENPGTNIKGD CGNPSIGICFF
A2ASS6	21103	LLTVKAGTNVCLDATVFGKPM
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Q920E5	117	DSSLTRRGQICWYQKPGIGLD
Q9EPL8	878	LFNGLKRAYACHAEHENDSDD
P50579	223	LNAGLAFPTGCSLNNCAAHYT
P15170	276	GANLKEQSDFCPWYIGLFPFIP
Q9NPA8	50	CGWKDQLKAHCKEVIKEKGLE
Q9UL62	918	EVQGAAQSSE CPLACSSSLHC
Q9DCN1	337	MQVIHPDGTKCLLGRQKRFP
Q6IFX4	238	NHEEEVNSLQCQLGDRINIEV
P06213	328	GVTMNSSNLLCTPCLGPCPKV
O00468	1564	LPNPCHGGAPCQONLEAGRFHC
A2ASS6	9743	VSEHQSATFCEVSFDDAIVT
Q99K43	567	YPGSTPLQHNCSIKSVASTYS
P45880	8	XXXMATHGQTCARPMCIPPSY
P10768	56	PALYWLSGLCTEQNFISKSG
P00533	260	VCRKFRDEATCKDTCPLMLY
A2ASS6	27731	ICEAELRTTSCKVTKLLKGNE
O00468	607	GPCETCGDAVCAFGAVCSAGQ
Q04750	302	EKNTITNLSKCDFTQMSQYFK
Q3U186	11	MACGFRRSIA CQLSRVLALPP

Q8BRK8	106	VSGGELFDYI C KHGRVEEVEA
P13489	30	WAELLPLLQ Q CQVRLDDCGL
P29218	201	RSVGTAAVNM C L VATGGADAY
Q9JX8	412	NILTHTCPRG C SSXXXXXXXXX
O00468	1112	RASCYNSALG C CSDGKTPSLD
P70388	143	CAEIDREMIS C LGVSXSVLNN
Q62312	545	IQIVCETL T ECWDHDPEARLT
Q6ZPY7	832	KRAVRGVREM C DV CETTLFNI
A2ASS6	33430	ITKFDGTYR C KVVNDYGEDS
A2ASS6	7887	STIEDYAQYA C LIENEAGQDI
Q5JTH9	839	SSPAKRPR L K C LLHIVRKL
Q92616	1984	SQKSDERQ G V C IGLSEIMKST
P21817	3525	KKMLPIGL N M C APT DQDLITL
Q8BGQ7	525	FVDEVVTG Q E C GVVLDKTCFY
Q9WUQ2	280	PHKRLRQ P PP C YLTAWDSSTF
Q9JLZ3	169	LGGGLELAL A C D IRVAASSAK
O55070	244	TSCAYDRIV L C GQEI VNSVVP
Q05519	455	IETGSPKT K E C SVEKGTGDSL
Q8BGK2	74	TAEALTTD Y W C LDDLYREMVK
A2ASS6	22713	YSTVTT K CHK C TYKVTGLTEG
Q9JIK5	609	RTGRAGRT G V C ICFYQNKEEY
Q5UIP0	1139	IVIPQDV T ED C GMAEHLEKSS
Q9Y277	36	MVKIDL K TK S C SGVEFSTSGH
Q99KC8	416	EVKLNS K KH R C FSFGIGOGAS
Q5M6W3	482	TDDL I QLIT A C PQIDLIRCLT
Q64277	76	AFKGVLD K DP C SVLPSDYDLF
P48725	586	QELTRD D LL P C SQCGQEPAMA
Q9WV60	107	ELQIMR K L D H C NI VRLRYFFY
Q99MN9	202	IPQISL I M G P C AGGAVYSPAL
O00468	650	GSACEL R E A C LQQTQIEEAR
Q3TBW2	64	I P PK P A I N P R C L P PPPK P KE
P20810	241	AIDAL S SD F T C GSPTAAGKKT
Q9NYY3	462	TLG S CS S SE C LEDSTMGSVA
P00533	506	ENS C KAT G Q V C HALCSPEGCW
A8C756	228	D S SS P I W Q S M C G L LS I FT K FL
A2ASS6	6864	V V S N AG Q A S C T T RL F V K E P A
Q61151	314	R G LM K F W P K T C S Q KE V M F L G E
P54310	163	L Q E Y VT L H K G C F Y GR C L G F Q F
O75153	1072	I Q E Y M H L A L Y C F A SS Q L S T A L
Q4G0N4	404	F S SK V C V R S R C W D AC M V D GG
Q69Z37	224	S N ET F R F AA A C M N S R T N G T I H
Q9D8B4	32	T Y I T T A L G G I C G I I G S A Y R V S
P35235	367	T K E V E R G K S K C V K Y W P D E Y A L
Q9JK42	212	K D A Y D M A K L L C D K Y M A S P D L
Q9DBC0	242	F Y D G N P K Y E K C T V V L R I A P T F
A2ASS6	4297	N L V P S D G K F K C L K E Q N A Y T L V
P53569	740	L F A K T I L E G N C I Q Y S G D P L Q D
Q08211	881	G C I F Y V G D A I C T I A A A T C F P E
P63242	22	A G A S A T F P M Q C S A L R K N G F V V
Q9JI75	35	V A V E E L S K Q G C T V T V S D L Y S M
Q8CC88	1230	S K E E G E T Y R M C K E F S H K N W V V
Q8JZN7	79	Q E E I H K A N V V C V V Y D V S E E T T

Q9JHK4	260	VSREEACLSVCF SRPLIVGSK
Q29RF7	904	SAIMKLAQEP CYHEIITPEQF
P21817	3014	PLINQYFTNH CLYFLSTPAKV
P35235	490	IDI IREKGVDC DIDVPKTIQM
Q92879	137	MFSSFQIEE CRILRGPDGLS
P54577	519	NFMTKLGSIS CKSLKGGNISX
P58404	17	AAVASAASS CRPLGSGTAPN
Q92616	932	HVTLRLLKPE CVLDKSWCQEE
Q8BKC5	915	YFISPMLOQVCDNSPEVRQAA
O55091	235	CEDKQTFLODC EDDGETAAGG
P30681	106	KRPPSAFFLF CSENRPKIKIE
P53618	235	LVIVELIYKV CHANPSEARF
Q924M7	251	LHQHPGDIG CFAIYFLNLLT
O75694	637	IOPPAMSTPVC ALGNPATQAT
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P02730	885	PLIFRNVELQ CLDADDAKATF
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O60443	408	DSAAALLGTC CKLQI IPTLCH
P49327	2468	LGADYNLSQV CDGKVSVHVIE
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P13489	409	SLRELDLSNNC LGDAGILQLV
Q9BXJ9	817	EALYDGS LGDCKEAAEIYRAN
A8C756	591	HRGALGALMAC LR TARAHGHL
Q8CG76	106	GLGLGLSGDC TVKIATKANP
Q99MN9	21	AAGARLSVLNC GLGITTRGLC
P11172	86	YTALPLATVIC STNQIPMLIR
Q9UBF2	230	KSGLKSQFAYC MLIRIASRLL
Q1XH17	56	AADGTVACPC CQAPTRPQALS
O70325	64	VCLDKYRGFVC IVTNVASQUG
Q8BKC5	776	LSEIMHSFAK CIEVMGDGCLN
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P45376	299	LLSYNRNWRVC ALMSCAKHKD
P07814	1480	GAPSMGAKSLC IPFKPLCELQ
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P34932	270	IRALLRLSQE CEKLLKLSAN
P13489	323	CQLESLWVKS CSFTAACCSHF
Q3U5Q7	226	RDAARAVLEE CTSFIPEARAV
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Q9D819	270	KAIVDALPPP CESACSLPTDV
Q01518	416	PTISINKTDGC HAYLSKNSLD
Q99LD8	176	VSGSSHRLRGL CGMGGPRTVVA
Q5SSW2	500	PGVDPNDFSKC MITFQFIGTF
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Q9ER60	1724	TTLKRKQEEV C AIKIQRAYRR
Q9NVM4	368	RVRQMRPVCD C QAHLWLNRPR
A2ASS6	19362	SFSSVLTIKN C LRKDTGEYQL
Q9WTI7	860	LCMKNMVWKY C RSISPEWKQQ
O00468	172	TPVPPTPPD C RGMLCGFGAV
Q6PGB6	60	YFNDAVAV C CRVDHSQNOK
Q9R062	233	TYNPQTKSVN C DSQDPTVSHP
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Q9EQQ9	896	RILEFYSKLG C FEIAKMEGFP
O89103	308	ASRNPCSSNP C TGGGMCHSVP
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P00533	526	WGPEPRDCVS C RNVSARGRECV
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P08397	247	VLHDPETLLR C IAERAFLRHL
P98192	512	PGLRKEDVFS C FSFLRNVFSD
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Q64436	365	LTAKRLASKN C VVKNLEAVET
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Q9CPP0	79	LCLTE G AT D ECNVVEV VARDH

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P30153	148	GDWFTSRTSACGLFSVCYPRV
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P21333	1353	SPFQVPVTEGCDPSRVRVHGP
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Q62234	694	EGKSYRFRVRCNSAGVGEP
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Q8K1X1	83	NYHHNIGSPYCLRLASADVTG
Q8BRK8	413	HLGIRSQSKACDIMAEVYRAM
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Q99683	1351	LYYVTRDDLKCLRLRGMLCT
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P18206	313	LDEAGKVGELCAGKERREILG
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Q11011	266	FVETRSKDGVCVRVYTPVGKA
Q9BY44	80	LHSFDLLKAVCLEFSPKNTVL
Q3UK37	25	LPEAVAALSRCLPAGPSPEIF
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P00505	272	RHFIEQGINVCLCQSYAKNMG
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Q61699	659	KLCGPYEKFI CEQEHEKFLRL
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Q99700	332	EEIMESILFKCSDFVVVQFKD
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Q8TCG1	58	NQILTSECLSCLVELLED PNI
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Q99KB8	35	LGQALLGLSLCHSDFRKNLTV
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Q9WV60	76	SFGVVYQAKLCDSGELVAIKK
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O75694	874	PLLYSTDDAICSKANELLQRS

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P22102	733	SEEEMARTFNC	GVGAVLVVSK
Q92616	2501	VAVNVAPGRLC	AGRYSSDVQE
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Q9UNM6	49	LQVLDFVQDPC	FAQGDGLIKL
Q8BVZ1	284	TQELWGSWSPC	LENGRSHSEV
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Q13557	481	GSPTVPIKPPC	IPNGKENFSG
Q8CFE6	228	LGYTSGLSLLC	MIFFLIVVIC
Q08752	176	EVKGEKPAKLC	VIAECGELKE
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P58059	60	RRRQRESYET	CRRINMEMAR
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P19096	274	PSGEVQEQLIC	SLYQPAGLAP
Q5SSW2	1840	LVLTDLLVSPC	YYAXXXXXXXX
Q9JLI6	375	RTLLASVGASC	HSNHEDRPSP
P22102	891	VLEEFSDIVID	CLAGFMRILSG
P32067	231	ETRALEGKMG	CLKFSGDLDD
A2ASS6	18422	FLSDNLTNDS	CKLTWFSPEDD
Q9JIX8	513	PLAQKSSLPEC	STQKGVESER
Q8BWF0	330	KFRNAGQTCVC	SNRFLVQRGI
Q6P2B1	908	FHKQVTSAEEC	KQVCWALRDF
O08715	700	LRSLDQOMYLC	YSQPGIPTLP
Q99J09	186	SPHKDSVFLSC	SEDSRILLWD
Q9D6M3	290	GPSAFLKGAYC	RALVIAPLFG
P68036	17	LMKELEEIRKC	GMKNFRNIQV
P62746	83	SYPDTDVILMC	FSDVSPDSLE
Q99KN2	19	SRVPAHPDSRC	WFLAWNPSGT
Q02257	90	ARAKRVREAMC	PGVSGEDSSL
O75694	556	QACATCLILAC	STAACDREVS
Q8CGY6	207	LAAVRTLSGMC	SGHRARATAI
Q99L45	282	YIKEYVTCHTC	CRSPDTILQKD
Q9DBC0	82	LATPRPVPGAC	FSRARPAPLR
P14873	2138	PSGGKQOGRQC	DETPPTSVSE
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Q9D1G3	393	DIVYLWSVLNC	FGLNFELWVQ
Q8C7B8	366	LLGTWDKLDVC	PLEEGNYSLD
P40227	282	KKI IELKRKVC	GDSDKGFVVI
Q9BSK1	118	SDAFGGYGRSCL	LHIKRDKTLT
Q62523	526	VALDKNFHMKC	YKCEDCGKPL
O70546	900	YPSSAEVLKAC	RNLGKNGLSN
P54136	615	ATAFTEFYDSC	YCVEKDRQTG
O95573	466	SATTQRFMNIC	FCCPVGQGYG
P42704	380	SVFGSFFLQHC	VTMNTPVEKL
O89103	644	NQYSPTPGTD	CXXXXXXXXXX

P22102	466	PLAKATSRSGCKVDLGGFAGL
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Q9DCZ1	205	GYPQLSAVIECADSAHGLKGH
Q99NB9	1244	LEGLRVAIGPCRMLQYCLQGL
Q8VDQ1	344	TGGNVGKQIVCISEDSSLXXX
Q08752	52	PKTAENFRALCTGEKGIGHTT
Q5UIP0	1718	LSEKTFQMLECQHRSRRVRR
Q02566	539	MGIMSILEEECMFPPKASDMTF
Q6ZQ73	1138	FIMLARLATLCPAPVLQRVDR
P98156	127	EISCGARSTQCIPVSWRCDGE
Q06203	503	GLECFEKSGHCTACLTKGYPV
Q9DCS1	120	AFLHKKRGGTCWALMRTLVL
Q8BGQ7	711	VPVSELLDDPCGPAGSLTSVE
P00966	97	YLLGTSLARPCIARKQVEIAQ
A2ASS6	23241	PPSEPSDAITCRDDLEAPRIM
Q9D1G3	187	HGGSSFTVLRCTSFALSCAH
Q5UIP0	1865	PNENFKTVGPCLGDSKNVSQE
P51174	303	LLIAELAISACEFMFEETRNY
P07742	544	TIYYGALEASCELAKEYGPYE
O08739	140	YQRVTISGDY CAGITVEDYEQ
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Q9DCN1	287	WHSRYKFCPTCGSATKIEEGG
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P54729	269	LLDADRYFCECKELLDTVDNY
Q810L3	603	RITGNTVLCYCCGLRSFREL
Q8VCT3	130	QALCVAFRQPCGAADRFELEL
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P62932	124	NIMKETPSEECLDTALALQDQ
Q09161	320	ERFVIEENLHCI IKSHWKERK
P19367	628	TWTKGFKATDCVGHVVTLLR
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Q6ZQ73	374	SRPDLLPDFHCTLAPALIRRF
P07742	352	VETNQDWSLMCPNECPGLDEV
O08739	47	VMSLFTVPEDCPIGQKEAKER
P19253	190	QAEKNVEKKICKFTEVLKTNG
P07814	1487	KSLCIPFKPLCELQPGAKCVC
P31939	575	SAADKVVIEACDELGIILAHT
P13489	45	LDDCGLTEARCKDISSALRVN
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Q01433	123	LDLRTSMDGKCKEIAEELFTR
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Q8CDN6	64	AVFLEVDVHQCQGTAAATNNIS
P26039	2196	TAKAVAAGNSCRQEDVIATAN
Q8R3F5	206	GQRQSNFSFACLEAQEHCKSL
Q8VBZ3	454	REHRVAGIFPCPTFKDKSTYI
Q92616	36	RREILSELGKCVAGKDLPEGA
Q8K297	407	GRPLTKGELGCFLSHYNIWKE

A2ASS6	6705	KDTGGVLGTS C ILECKVAGSS
Q9DB43	97	PRNTAPAGYQ C PSCNGPIFPF
O00468	468	QGPCDQAPSP C LGVQCAFGAT
P50991	221	VKKLGGTIDD C ELVEGLVLTQ
P70398	2390	YQKRAYQCI K CMVALFSSCPV
Q11011	390	SWIEYLCVDH C FPEYDIWTQF
Q9BY44	377	PDGEHILTAT C APRLRVNNGY
P07814	1448	DSGKIVQIPF C GEIDCEDWIK
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P78527	90	ECREEILKFL C IFLEKMGQKI
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P21980	211	PKFLKNAGR D CSRRSSPVYVG
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Q8CI94	319	IRRFKSSRF G CRDPVRTCFET
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Q8K1X1	1135	KALLVLLSL G CFVSV AETLHS
Q9DCZ1	222	LKGHIISD G GCTCPGDVAKAF
Q9BXJ9	58	TLAMKGLTL N CLGKKEEAYEL
Q60759	375	EMVSMLKR N CGKALDIARQA
Q91V76	187	RRTGELNF V SCMRQTL EEHYG
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P49327	2312	YRVAGYS Y G C VAFEMCSQLQ
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O09061	223	DVYTGDA L RICIVTKEGIREE
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Q8BIJ6	609	IWFDSG T SW S CVLQDTQQRAD
Q62523	465	YHPQC F TCV V CACPLEGTSFI
Q3TL44	713	LAGVRMT P L K CTVVASVLGSG
O70433	10	XMTERFD C HHCNESLYGK Y I
Q3UZY0	513	RQMSQ H REN C LAERMAILQA
Q8R5K2	631	IVTYD L LS V ICHHGTASSGHY
P26039	1363	CTQQAP G Q K ECDNALRQLETV
O08529	498	TFEPHKD G DF C IRVFSEKKAD
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P17405	607	LSARAD S PAL C RHLMPDGSLP
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Q99N94	218	EPI T RWGE Y W C DVTVNGLDTV
Q96EP5	39	YFSQ Y GEV V D C VIMKDKTTNQ
P50462	147	GKP W H K TC F R C AICGKSLEST
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P54310	396	EAP F PRA L EE C FFAYCWAVKH
P53811	191	LANT P DC P RM C AYKLVTIKFK
P23368	428	ALS N PTA Q AE C TAE E AYTLTE
Q99683	250	PN F ELL L GP I CLPLVDRFIQL
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A2ASS6	20411	MRKLVVVRAGCPIRLFAIVRG
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Q8BG51	157	IMNQYTEIETC ^V VECSAKNLKN
P97390	145	HLFSLNILGCCQGRNWDPAQL
Q6NZJ6	1516	VRARLLQKYL ^C DEQKELQALY
Q9NVM4	136	VTVGPEGDMP ^C RANILVTELF
Q9Y3C8	165	QKGVIOHKEKCNQXXXXXXXXXX
P26039	1392	QPINDMSYFGCLDSVMENSKV
Q8R143	117	LLGITVCCCY ^C CRRKKS ^R KPD
P17812	243	FCHVEPEQVIC ^V H ^D VSS ^I YRV
P00492	23	DEPGYDLDLF ^C IPNH ^Y AEDLE
Q00610	39	TLTMESDKFIC ^I REKVGEQAO
Q6ZQ73	304	DPHVPNVTS ^L CLQYMKHDPNY
P97311	393	GTSLRGDIN ^V CI ^V GDPSTAKS
P10518	132	CLCPYTSHGH ^C GLLSENGAFL
A2ASS6	20821	SNITNYIVEK ^C DVSRGDWVTA
Q8NBI5	63	PIGNATGQAD ^C KAQDERFSLI
P53569	595	AFVKRLLQVT ^C TQMP ^P FFICGA
Q8BH61	315	SSETPVRYGQ ^C WVFAGVFNTF
Q9DCZ1	127	LEAVPQVKFIC ^L DVANGYSEH
P35579	1379	MKKKMEDSVG ^C LETAE ^E VKRK
P12004	148	KMPSGEFARIC ^R DL ^S HIGDAV
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Q60597	231	EFMFINDLEQ ^C QWIRQKFETP
Q99439	175	VIGLQMG ^T NK ^C ASQSGMTAYG
Q922B2	203	QAI ^F R ^L QSGI ^C H ^L FRET ^L INK
A6H611	279	FLYPNADQLK ^C LEELLSSRDL
P70388	221	KYLKQ ^N KEKAC ^E IRDQITSKE
P54822	173	AQLTTVGKRC ^L WIQDL ^C MDL
P33992	207	CNTDQAGRPK ^C PLDPYFIMPD
Q71RI9	244	ADLCVKHDTL ^C ISDEVYEWLV
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P12814	476	YYD ^S PSVNARC ^Q KICDQWDNL
O89103	140	ASKSSCIFKRC ^V SLILDLSLT
Q3TXS7	141	EGIVNKMFQR ^C LDDH ^K YKQAI
O60443	407	PDSAAALLGT ^C CKLQIIP ^T LC
O70305	91	RPGSRLLGVC ^G PPRPFV ^V VL
Q8JZN5	331	KLIELTAEYAC ^T RKQFN ^R NLS
P50991	414	SIHDALCVIR ^C LVKKRALIAG
Q99KP6	230	SIPGILALDL ^C PSDTNKILT ^G
Q9Y6I9	182	IYQEDQIHFM ^C PLARQGD ^F YV
P30153	504	NYLHRMTTLF ^C INVLSEVCGQ
Q9Z1Z0	344	INTVSEVIRG ^C QVNQDYFASV
O35643	924	GNPSFTLSLK ^C RAPEV ^S QH ^V Y
Q9H0C8	325	TPNDRFILLAC ^D GLFKVFT ^P E
P15105	99	FRKDPNKLVL ^C EVFKY ^N RKPA
Q9H0C8	367	SAADARYEAC ^N RLANKAV ^Q R
Q9ET80	318	WANNKRHGYG ^C TVFPDGS ^K EE
P06213	311	CHQYVIHNNK ^C IPECPSGY ^T M
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Q811U4	509	KKFDLSYDLN C HKLCSD FQ ED
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Q99683	643	FQIY F CTEL H CK K FFEMVNTI
P49717	305	IP E M Q E A F F Q C Q V CA H T T R V E
Q99NB1	107	LGGQ L NV S V N CLDQ H VQ K S P E
Q9DBM2	231	Q Y PGRL A P E T C V R S V Q A S V K H
P17427	710	G S ED N F A R F V C K N NG V L F EN Q
P33992	219	LD P Y F IM P DK C K C V D F Q TL K L
O15519	310	PE H RD Y DS F V C V L VS R GG S Q S
P23610	62	Q L GRE L RA Q E C LP Y AA W C Q LA
P28474	268	T D GG V D Y S F E C I G NV K VM R SA
O60502	215	Y L GE P ET F LF C P T E Y CG T FC Y
O70572	251	LY K AV S E F H V CC E T L K T T T GC
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Q16665	359	DL I FS L Q Q TE C V L K P V E SS D M
P04075	290	AS I N L NA I N K CP L L K P W AL T F
O08529	105	TD I C Q GA L GD C W L LA I AS L T
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P14550	187	SV R PA V L Q VE C HP Y LA Q NE L I
P10833	213	PS A PR K K D GG C PC V LL X XXXX
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Q9WVQ5	210	GET W E K AK T M C E C Y D Y L FD I A
P33992	221	P Y F I M P DK C K C V D F Q TL K L Q E
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Q9Z1Z0	383	V N ER Q PF V LR C AV L Y C F Q C F L
P78527	1767	ML L EL M TE V L C RE Q Q H VM E EL
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Q15149	4071	N L Q K F L E G T S C I AG V F V D A T K
P61962	268	P V AR L NN H RA C V N G I A W AP H S
Q7L8L6	689	MEM A GL C PA A CM Q T P RM K L A V
Q9DCS9	77	Q Y RR V PD I TE C KE G D V L C I Y E
Q9JHU4	4168	TF S S I P V S R I C K S P N ER A R L Y
O43447	174	K P K L P V V I S Q C G EM X XXXXXX
Q9DCN1	247	A E EF K Q R H E N C Y F L H PP M P A L
A2ASS6	30983	RL N W V I V E G E C L T AS Y V V T R L
P68104	370	V L D C HT A HI A CK F A E L K E K ID
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Q7L8L6	475	F N Q Y PE H L P T C LL G L A F L E Y F
P21333	1225	G T H T I T Y I PL C PG A Y T V T I K Y
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Q8CG76	362	D Q AW N M V A H E C PN Y FR X XXXX
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P78527	1954	A Y NC A IS V IC C V F N E L K F Y Q G
P40227	366	G E E K FT F IE K C N N P RS V T L L I
P35285	194	R Q P S E P K R SC C XXXXXXXXXXXX
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P47809	380	ERT V E V AC Y V C K I L D Q M P A T P
P70388	48	NG A G K TT I IE C L K Y I CT G D F P

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O00170	90	MREGEIAQFLCDIKHVVLVPL
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P70398	1908	YKFDDGDVTECKMDDDEEMKN
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Q9WU78	122	ALASLGYEKS CVLFNCAALAS
Q6PAR5	275	FIGYLKQNTYCFPHSLRWIVS
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Q7KZF4	228	LVTVMLSGIKCPTFRREADGS
Q60714	392	QIGEFYGATECNCSIANMDGK
Q9ER72	472	AQSEAYFENDCWVRYFLHTGH
P70398	2107	SNRFSEYLLECP SAEVRGAF A
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Q9R112	379	PIKKYDGYTSCPLVTGYNRVI
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Q8BWT1	92	ETGALTLNRLCGSGFQSIVSG
A2ASS6	20798	FDISEIDADACSLSWHIPLED
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P49411	387	VMFSLTWDMACRIILPPEKEL

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P13489	209	CQLEALKLES CGVTS D NCRDL
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P62835	141	GQNLARQWCNCAFLESSAKSK
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O75153	732	FSPGVRFPESCQDEV RDQKQL
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P00750	91	VPVKSCSEPRCFNGGTCQQAL
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Q9CXT8	454	AVDAETVRRVCTKYIHDKSPA
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P97372	118	KPEVWTLKEKCILVITWIQHL
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Q8BG51	502	SEFLTEAETICD VVCLVYDVT
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Q3UH68	987	RRKSI SGKKL CSSCGLTLGKG
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P26039	719	CALSTSQLVACTKVVAPTISS
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P70670	149	APHSVQKSSVCP PHPLTSPPS
P62932	58	MCKESEHTLLCPLEQVPCLNS
Q9R1V6	399	ECKCEDTWSG CIMGDTGY YLP
Q99KC8	199	QHGIERVQSNCSLSPIQY LTD
Q08J23	321	AEGGRMVYSTCSLNPIEDEAV
O89103	366	VNTLGSFHCECWVGYQPSGPK
Q6PIE5	987	MYPLKVTWWFCAF PYSLLIFI
P55060	853	AVGITKLLTECPPMMDTEYTK

P55036	58	NVGLITLANDCEVLTTLTPDT
P16675	83	VVLWLNNGGPGCSSLDGLLTHE
P34914	154	SQHFDFLIESCQVGMIKPEPQ
P63167	2	XXXXXXXXXMCDRKAVIKNAD
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Q05586	436	VNGDPVKKVIC TGPNDTSPGS
P35821	32	DIRHEASDFPCKVAKLPKNKN
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Q8BGQ7	901	TVDNEAGKITCLCQVPQNAAN
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Q9EQ80	336	AASKGINVILCEHSNTERGFL
Q9ET26	95	IESIETSCHGCRKNFILSKIR
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P58404	589	DPSSSGPSCLCTFPMDGEHGI
P62736	12	CEEEDSTALVCDNGSGLCKAG
Q921M4	615	AOGLQEQRDQCLSHLQOYAAA
P48643	429	VYGGGAAEISCALAVSQEADK
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Q60770	501	DSKEWPYCSRCPAVWNGSGAV
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Q8VCI5	296	SGPPGANGEQCLIMXXXXXXXX
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Q6PGB6	61	FNDIAVGAVCCRVDHSQNQKR
Q9R0H0	418	PNIYVTFTPACTFEAGENTVMM
Q6ZWY3	64	VLCVGCSTVLCQPTGGKARLT
P23975	520	GFRPGLYWRLCWKFVSPAFL
Q8BWM0	205	NDQGKEVTEFCNKYWLMLDEK
Q8R3F5	223	CKSLGIENPVCQVSNYLFPCD
P98156	421	INLKGGYKCECSRGYQMDLAT
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Q9UQM7	199	PYGKPVDLWACGVILYILLVG
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Q9NVM4	623	LWMEYHLTPECTLSTGLLEPA
O15382	22	RKLLSVPWLLCGPRRYASSSF
P35754	26	VVFIKPTCPYCRRAQEILSQL
O35459	170	KPVIAAIHGGCIGGGVDLVSA
A2ASS6	27791	TSVTKDSMTLCWSRPETDGG
P00750	291	LKNRRLTWEYCDVPSCSTCGL
P98156	246	HTKCPTSEIQCGSGECIHKKW
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P53996	133	CGEFGHIQKDC TKVKCYRCGE
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Q9WVJ2	182	YYKDALRFLGCVDIKDLPVSE
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Q9CQM9	161	FMKGTPOEPRCGFSKQMV EIL
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Q71FD7	213	KRQYHAQCFTCRTCRRQLAGQ
P00750	509	GGPQANLHDA CQGDSGGPLVC
Q7KZF4	736	GSYAPRRGEFCIAKFVDGEWY
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P19096	1464	RKEPGGHRIRCILLSNLSNTS
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Q8K2B3	305	FHPTGIYGAGCLITEGCRGEG
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P05455	18	EKMAALEAKICHQIEYYFGDF
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P45952	116	CLITEELAYGCTGVQTAIEAN
P63318	66	IWGIGKQGLQCQVCSFVVHRR
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P21333	574	SPFEVKVGTECGNQKVRAGWP
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Q9WU78	90	PKFPFSENQICLTFTWKDAFD
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P40937	152	IEKFTENTRFCLICNYLSKII
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Q8BW75	297	SRVPLGSVIKCMVYYKEPFWR
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Q64277	137	YGKVGDFLSWCRQENASGLDY
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P12268	173	IDFLKEEEHDCFLEEIMTKRE
P17426	970	TSKEPVSRLCELLAQQFXXX
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P78527	1919	NELTKTLIKLCYDAFTENMAG
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Q3U1J4	680	NVNLKEVNYMCPLNSDGYPDS
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Q61151	71	ELFLKKLQCCVIFDFMDTLS
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Q9CZR8	14	LRS LRFFPVACTGRSARAVLL
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Q12879	870	LFSISRGIYSCIHGVHIEEK
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Q15369	74	EIPSHVLSKVCMYFTYKVRYT
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P97823	169	SANRDISVLQCHGDCDPLVPL
Q8CGY6	84	SADIKALYRRCQALEHLGKLD
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Q96I24	148	KRLLGQIVDRCRNGPGFHNDI
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P14873	2037	TTRSPDTSAYCYETMEKITKT
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Q8BZA9	252	CEEARQPSIQVCMNLQEH LN
O00468	546	RCGQCRFGALCEAETGRCVCP
P41250	461	TSYGWIEIVGCADRSCYDLSC
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Q6ZPY7	217	YQPEGEEVWLCGVVSRQDSVT
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Q8VDK1	116	LGQYSQLARECGIWL SLGGFH
Q8R035	150	SRYQFRNLAECLQKIRDMIAE
Q99JY9	235	KAVKERYSYVCPDLVKEFNKY
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Q9JI57	54	ALSKLNTEVACVAVHNESVFFV
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Q92879	443	FIDKQTNLSKCFGFVSYPNPV
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Q8K297	278	CKQAEVQMYVCNKEVYGFVPV
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Q99NB1	445	TWWQTETGGICIAPRPSEDGA
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Q8N0X7	272	LNRPPGFLOQCDWLYPLVPDR
Q7TNG8	106	GTGTGVEGGVCAVQGGVCINL
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Q9D051	161	SAGVAAQHSQCFAAWYGHCPG
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Q9WV34	232	PHLPRQVFVKCHFDDYDPARDS
P06213	335	NLLCTPCLGCPKVCCHLLEGE
O88545	140	PSDIHVHKQVCEIIESPLFLK
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Q8BG51	335	TFDKHDLDRDCALSPDELKDL
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Q8VEM8	272	FVAGYIAGVFC AIVSHPADSV
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Q9BQG0	890	THHLCRARRYCHDLGERAGAL

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Q3UZY0	1216	ARVRALRRALCXXXXXXXXXX
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O35309	89	KDGCHFNSSSCSFQVSSQILY
Q62261	624	AHMEFCYQELCQLAAERRARL
Q64514	221	DSNENGDLSKCAVLRNYKEAQ
Q810L3	545	PFCELNLGDKCLDGVLNNNNY
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Q8R5A6	365	LRNIEADTYWCMKLLDGIQD
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P68104	31	STTTGHLLIYKCGGIDKRTIEK
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P17563	466	AHELRYPGGDCSSDIWIXXXX
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Q3U1J4	1008	FHLGEFVNVFCHGSLVMQNLG
Q6PEB6	110	MTATEQWIFLCAAHKTPKECP
P78527	974	RTFPVLLRLACDQVTRQLY
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P41091	434	LGKIVLTNPVCTEVGEKIALS
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Q00987	362	QAEEGFDVPDC KKTIVNDSRE
P35821	426	ATLLATGAYLCYRVCFHXXXX
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P35247	365	FTNGKWNDRACGEKRLVVCEF
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Q99NB1	345	GHSYVVYGPLCNGATTVLFES
Q9C0B1	249	RSAVAVYSYSC EGP EEESEDD
P30556	149	RRTMLVAKVTC I I I WLLAGLA
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P80314	535	PRKRVPDHHPCXXXXXXXXXX
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Q7TPD0	957	LQALQHVQASCDEAHKMKFSD
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P06213	280	PPYYHFQDWRVCVNF SFCQDLH
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P67775	55	VQEVRCPVTVCGDVHGQFHDL
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P48039	100	NNGWNLGYLHCQVSGFLMGLS
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P62746	192	RYGSQNGCINCKVLXXXXXX
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O54931	64	QYLDEVLEANCCDSSVDGTYN
Q14003	355	EPFLTYVEGVVWVWTFEFLM
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Q9EPL8	151	NSACWLGILL C LYQLVKNYEY
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P48200	467	VTDMKSDFQ C ALNEKVGFKGF
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P70398	2019	YFQFMKLLT C NGVYLNPPPG
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Q9UBF2	516	LPSILVLLQRCMMDTDDEV RD
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Q9Z1Z0	232	NSDGGIVVEDCLILLQNLKKT
Q9DBF1	330	FAAVGTAGQRC TTVRRLFLHE
Q7TPV4	683	GHICPHLTPRCLQLILAVLSP
Q921S7	188	PLIVDSL IQLCKSQILKHPSL
Q8K0S0	227	STNLYFADFYCMYTAYHYAIL
P98192	583	KPFVESYQLLCRYLLHEEDYF
Q8C7B8	338	LWDELGALWVCVILSPHCKPD
Q9CZC8	188	ERITEGVRCI CNHLSLATKLD
Q9WVQ5	212	TWEKAKTMCECYDYLF DIAVS
Q9JHR7	573	QDDKFFLPKACLNF EFFSPFA
P21817	3733	MAYADIMAKSCHLEEGGENGE
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Q8BP48	194	LNYYNFPKSCCTSVNEVICHG
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Q9BY44	42	PRESGKNCKVCIFSKDGT LFA
Q13347	99	LLKTNSAVRTC GFDFGGNIIM
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O89103	428	DSTQCED IDECS DARGNPCDS
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P21817	1268	RVDGTVDTPPCLRLTHRTWGS
Q9WU78	231	ADYFGDAFKQCQYKDTLPKEV
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P28663	164	GEESNSSANKCLLKVAAYAAQ
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Q99KC8	464	ALGSLKFALQCAVDNISLSWD
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Q3UK37	76	WTDLAPEAQACVVKSALGSQG
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P22315	233	RWPTHPLLIQ C FADHILKELN
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P21817	1216	DVSSLRFFAI C GLQEGFEPFA
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Q92769	312	GGYTIRNVAR C WTYETAVALD
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P31327	1256	VKGNVLLV I E C NLRASRS F PF
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Q921G7	585	GFRLQINA Q N C VHCK T CD I KD
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Q5SSW2	631	RVAGRMV A D M C RAAVK C CE E
P01111	80	QYMRTGEG F L C VFAIN N SK S F
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P35557	220	MISCY Y ED H Q C EVGM I VG T GC
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Q00610	1565	QWFLO E E K R E C FG A CL F T C Y D
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Q9ET26	33	DPLSRFTCPV	CLEVFEEKPVQV
Q99KN2	97	IWKKNQDDFE	CVTTLEGHENE
P62932	95	LQVCPASVVC	CSMEWIRWPNV
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P53569	472	ITLYFCFFRT	CIKKKDIESKM
P26039	1978	LQAGNRGTQA	CITAASAVSGI
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Q8BP47	353	LAEFTHVEAE	CPFLTFEDLLN
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P78527	285	FALHASQFST	CLLDNYVSLFE
Q9NP79	38	DKRDPVVAYY	CRLYAMQTGMK
Q6IFX4	54	CALQTPQGQG	CGSSPCLYRCP
Q9D6Y7	218	QYLSKNPDGY	CGLGGTGVSCP
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P12004	62	LRSEGFDTYR	CDRNLAMGVNL
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P53569	603	VTCTQMPPI	CGALYLVSEIL
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P60981	12	ASGVQVADEV	CRIFYDMKVRK
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P28271	370	ELDLKTVVPC	CSGPKRPQDKV
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Q5VYK3	1347	SS P MMETIN M CLQYLDVSV L G
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P42704	413	HS F PLQ F TL H CALLANK T DLA
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Q99JX3	173	LYVYNTD T DN C REV I ITP N SA
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P60709	374	ES G PS I V H R K CFXXXXXXXX
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Q99JB8	42	GHRLCGDLVSCFQERARIEKA
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Q9C0B1	338	TGTLDYILQRCQLALQNV CDD
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Q3LXA3	24	ADDALAGLVACNPNLQLLQGH
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P97447	212	AVEDQYYCVD CYKNFVAKKCA
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O89103	164	SHLPKWHESPCGTPEAPGNSI
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P53396	1040	GVAFVDMLRNCGSFTREEADE
Q8BUN5	307	YYIGGEVFAECLSDSAIFVQS
P00533	326	YEMEEDGVRKCKKCEGPCRKV
Q9EQ20	179	LYSYRLPLGVCAGIAPFNPA
Q3UHX9	210	TKAGHGSLVNCGMKKEVKIDK
O14920	99	NDLPLLAMEYCOGGDLRKYL
P12268	26	DGLTAQQLFNCGDGLTYNDFL
P54886	584	IPVMGHSEGI CHMYVDSEASV
Q9JHK4	340	ECVLLKGHQECWCRDSATDEQ
Q9EPL8	144	GFYLQSDNSACWLGILLCLYQ
A2ASS6	29497	EASQTNWKMVCSSVARTTFKV
Q99L04	63	SLGGRCVPVVCDSSESEVKS
O95573	652	KGTWEELCNSCEMENEVLKVL
Q9WTI7	480	PVQYFNKIIICDLVEEKFKGI
P10768	158	HSMGGHGALICALKNPGKYKS
Q61768	858	QLVRDNADLRCELPKLEKRLR
P70398	1512	FELLVALAVGCVRNLKQIVDS
A2ASS6	13828	GVEKDEVILQCEISKADAPVK
Q9C0B1	136	KHTEAEIAAACETFLKLNLYL
Q96EK6	150	TLTLLSKKLCYKITLECLPQ
P15880	143	YNGHVGLGVKCSKEVATAIRG
P70695	93	INMLQSSYSTCVLVSEENKEA
P05141	57	ADKQYKGIIDCVVRIPKEQGV
P31327	516	LGMGGQTALNCGVELFKRGVL
Q99700	852	DSFIENSSNCTSGSSKPNP
Q9Y2S7	4	XXXXXXXXMAACTARRALAVGS
Q810L3	343	ERSSLCPTCRCPVERICKNHI
P23492	31	TEYRPQVAVICGSGLGGLTAH
Q8BY71	165	TFQIHKADMTCRGFREYHERL
Q9Y3I1	252	LCEGSSATLTCVPLGNLIVVN
Q9JKS4	696	WHDTCFICAVCHVNLEGQPFY
Q9D710	120	IRMGLLYLTL CIVFLMTCKPP
Q3TC72	300	VFLKKGDEVQCEIEELGVIIN
Q9CR76	92	TVVALPPGFYCYSQLMTLSS
P26039	956	AGPQPLLVQSCKAVAEQIPLL

P26039	2408	RMVAAATNNLCEAANA AVQGH
O00170	78	FKLPVWETIVCTMREGEIAQF
Q14181	82	KRLSKARHSTCKDSGHAGARD
A2ASS6	14362	ILEGEKAEFVCTISKESFEVQ
Q62234	656	HEGIMYFVEKCDVGAENWQRV
P46060	152	F'TLQELKLNNCGMGIGGGKIL
Q9UBF2	387	VVVVQAISALCQKYPRKHSVM
Q9D1E6	51	LELVVGSPASCMELELYGADD
A2ASS6	16678	AENRFGPGPPCVSKPLLAKDP
Q80UJ7	510	LASGSPDLRCCLLHQKLQMLN
P17426	397	QRAADLLYAMCDRSNAKQIVS
Q5SSW2	1715	AATTL SGLLQCNFLTMDSAMQ
Q8K0S0	17	PHSIEINNITCDSFRISWAME
Q14152	185	HDIAQQAFKFCLOYTRKAEFR
Q8BIJ6	155	SKVHFVPGWDCHGLPIETKVL
Q5JTH9	288	HPAAISTAKFCIQEIEKSGGS
P12814	180	HISWKDGLGFCALIHRRPEL
Q14166	638	STLFLDQPGGCHVTCLVXXXX
P53618	284	APTAIKAAAQCYIDLIIKESD
P82933	353	AIRLAMAKALCSFVTEDEVEW
P00533	362	NATNIKHFKNCTSISGDLHIL
Q9WU79	435	DMELARREGWCFGAKLVRGAY
P21266	3	XXXXXXXXXXMSCESSMVLGYWD
P97311	721	PSLRLGFAEYCRISNLIVLHL
Q9CPZ8	53	KDSGILMVLKCRKENSALKDC
P61202	392	VADVESLLVQCILDNTIHGRI
P22315	357	IEYSQVLAQKCGAENIRRAES
Q5JTH9	125	ESNSAAHKEICAVLAAVTEVI
Q9GZT4	2	XXXXXXXXXXMCAQYCISFADV
P08133	552	SLETRFMTILCTRSYPHLRRV
P97447	31	QKDGRHCCLKCFDKFCANTCV
O70572	252	YKAVSEFHVCCETLKTTTGCD
A2ASS6	6490	QNEVGSDACVCAVKLKEPPKF
Q3U5Q7	110	QQLRRGPLQRCQLSKLLGYGP
Q01433	310	PALEQHPYEHCEPSTMPGDLG
O75694	1276	FIVQFLEQQVCTLNWDVGFVI
O43175	254	ALLRALQSGQCAGAALDVFTE
P08752	112	DDARQLFALSCAAEEQGMLPE
