

Supporting Information S2. The negative benchmark dataset contains 3,553 lysine non-succinylation fragments from 896 protein sequences (Liu et al. CPLM: a database of protein lysine modifications. Nucleic acids research 2014, 42, (D1), D531-D536). Each segment contains 31 amino acid residues with the non-succinylation site at the center marked with **K**. Listed are also the codes of the source proteins from which these peptide sequences are derived as well as the positions of their non-succinylation sites in proteins. See the main text for further explanation.

Code	Position	Fragments
B1XA46	4	KGQAPVVVKSEMMES K VVVVPAQGKKITLQNG
B1XA46	12	KSEMMESKVVVPAQ GK ITLQNGKLNVPENP
B1XA46	13	SEMMESKVVVPAQ GK ITLQNGKLNVPENPI
B1XA46	20	VVVPAQGGKITLQNG K LNVPENPIIPYIEGD
B1XA46	47	IEGDGIGVDVTPAM LK VVDAAVEKAYKGERK
B1XA46	55	DVTPAM LK VVDAAVE KAY KGERKISWMEIYT
B1XA46	58	PAM LK VVDAAVEKAY K GERKISWMEIYTGEK
B1XA46	62	KVVDAAVEKAYKGER K ISWMEIYTGEKSTQV
B1XA46	73	KGERKISWMEIYTGE K STQVYGQDVWLPAET
B1XA46	142	CLRPVRYYYQGTSPV K HPELTD MVIFRENSE
B1XA46	166	IFRENSEDIYAGIEW K ADSADA EKVIKFLRE
B1XA46	174	IYAGIEWKADSADA EK VIKFLREEMGVKKIR
B1XA46	177	GIEWKADSADA EK VI KFLREEMGVKKIRFPE
B1XA46	186	DAEKVIKFLREEMGV K KIRFPEHCGIGIKPC
B1XA46	187	AEKVIKFLREEMGV K IRFPEHCGIGIKPCS
B1XA46	199	GVKKIRFPEHCGIGI K PCSEEGTKRLVRAAI
B1XA46	207	EHCGIGIKPCSEEGT K RLVRAAIEYAIANDR
B1XA46	230	EYAIANDRDSVTLVH K GNIMKFTEGAFKDWG
B1XA46	235	NDRDSVTLVHKGNIM K FTEGAFKDWGYQLAR
B1XA46	265	REEFGGELIDGGPWL K VKNPNTGKEIVIKDV
B1XA46	267	EFGGELIDGGPWL KV KNPNTGKEIVIKDVIA
B1XA46	273	IDGGPWLKVKNPNTG E IVIKDVIADAFLOQ
B1XA46	278	WLKVKNPNTGKEIVI K DVIADAFLOQILLRP
B1XA46	344	GDECALFEATHGTAP KY AGQDKVNPGSIILS
B1XA46	350	FEATHGTAPKYAGQD KV NPGSIILSAEMMLR
B1XA46	378	MLRHMGWTEAADLIV K GMEGAINAKTVTYDF
B1XA46	387	AADLIVKGMEGAINA K TVTYDFERLMEGAKL
B1XA46	401	AKTVTYDFERLMEGAK LL KCSEFG EAI IENM
B1XA46	404	VTYDFERLMEGAK LL KCSEFG EAI IENMNEI
B1XB26	3	ADYDAINMERKLMML K REMNIADYDAELWQA
B1XB26	23	IADYDAELWQAMEQ EK VRQEEHIELIASENY
B1XB26	54	TSPRVMQAQGSQ L TN KY AEGYPGKRYYGCE
B1XB26	83	CEYVDIVEQLAIDRA K ELFGADYANVQPHSG

B1XB26 138 HGGHLTHGSPVNFSG**KL**YNIVPYGIDATGHI
 B1XB26 166 GHIDYADLEKQAKEH**KPK**MIIGGFSAYSGVV
 B1XB26 168 IDYADLEKQAKEH**KPK**MIIGGFSAYSGVVDW
 B1XB26 185 IIGGFSAYSGVVDW**AKM**REIADSIGAYLFVD
 B1XB26 229 PNPVPHAHVVT**TTTHK**TLAGPRGGLILAKGG
 B1XB26 251 GGLILAKGGSEELY**KKL**NSAVFPGGQGGPLM
 B1XB26 272 FPGGQGGPLMHVIAG**K**AVALKEAMEPEFKTY
 B1XB26 285 AGKAVALKEAMEPEF**KTY**QQQVAKNAKAMVE
 B1XB26 296 EPEFKTYQQQVAKNA**KAM**VEVFLERGYKVVS
 B1XB26 308 KNAKAMVEVFLERGY**KVV**SGGTDNHLFLVDL
 B1XB26 326 SGGTDNHLFLVDLVD**KNL**TGKEADAALGRAN
 B1XB26 375 SGIRVGTPAITRRGF**KEA**EAKELAGWMCVLD
 B1XB26 380 GTPAITRRGF**KEA**EAKELAGWMCVLD**SIN**D
 B1XB26 403 DVLD**SIN**DEAVIERI**KGK**VLDICARYPVYAY
 B1XB26 405 LDSINDEAVIERI**KGK**VLDICARYPVYAYVP
 B1XGN9 23 NGFGRIGRIVFRAA**QK**RS**DIE**IVAINDLLDA
 B1XGN9 46 AINDLLDADY**MAYMLK**YDSTHGRFDGTVEVK
 B1XGN9 61 KYDSTHGRFDGTVEV**KDG**HLIVNGKKIRVTA
 B1XGN9 70 DGTVEVKDGHLIVNG**KKI**RVTAERDPANLKW
 B1XGN9 71 GTVEVKDGHLIVNG**KKI**RVTAERDPANLKW**D**
 B1XGN9 84 GKKIRVTAERDPANL**KW**DEVGVDVVAEATGL
 B1XGN9 108 VAEATGLFLTDETAR**KH**ITAGAKKVMTGPS
 B1XGN9 116 LTDETARKHITAGAK**KVV**MTGPSKDNTPMFV
 B1XGN9 269 EQIKA**AAV**KAAAEGEM**KGV**LGYTEDDVVSTDF
 B1XGN9 296 STDFNGEVCTSVFDA**KAG**IALNDNFVKLVSW
 B1XGN9 307 VFDAKAGIALNDNFV**KL**VSWYDNETGYSNKV
 B1XGN9 321 VKLVSWYDNETGYSN**KV**LDLIAHISKSIHAI
 B1XEK8 20 FDFVKPGVITGDDV**QKV**FQVAKENNFALPAV
 B1XEK8 26 GVITGDDV**QKV**FQVAKENNFALPAVNCVGTD
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 B1XEK8 54 GTDSINAVLETA**AKV**KAPVIVQFSNGGASFI
 B1XEK8 75 QFSNGGASFIAGKGV**KSD**VPQGAAILGAISG
 B1XEK8 114 EHYGVPVILHTDHCA**KKL**LPWIDGLLDAGEK
 B1XEK8 129 KKLLPWIDGLLDAGE**KH**FAATGKPLFSSHMI
 B1XEK8 136 DGLLDAGEKHFAAT**GK**PLFSSHMIDLSEESL
 B1XEK8 160 DLSEESLQENIEICS**KY**LERSKIGMTLEIE
 B1XEK8 167 QENIEICSKYLERMS**KI**GMTLEIELGCTGGE
 B1XEK8 212 YTQPEDVDYAYTELS**KIS**PRFTIAASFNVH
 B1XEK8 252 LTPTILRDSQEYVSK**KHN**LPHNSLNFVFHGG
 B1XEK8 276 NFVFHGGSGSTAQE**IKD**SVSYGVVKMNIDTD
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 B1XEK8 305 TDTQWATWEGVLNYY**KAN**EAYLQGQLGNPKG
 B1XEK8 327 QGQLGNPKGEDQPN**KYY**DPRVWLRAGQTSM
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B1XBY2 10 FKEKSMSKEKFERT**K**PHVNVGTIGHVDHGK
 B1XBY2 25 KPHVNVGTIGHVDHG**K**TTTLTAAITTVLAKTY
 B1XBY2 57 GAARAFDQIDNAPEE**K**ARGITINTSHVEYDT
 B1XBY2 137 LGRQVGVPYIIIVFLN**K**CDMVDDEELLELVEM
 B1XBY2 209 GFLDSYIPEPERAID**K**PFLLPIDVFSISGR
 B1XBY2 238 GRGTVVTGRVERGI**I**VGEEVEIVGIKETQK
 B1XBY2 264 KETQKSTCTGVEMFR**K**LLDEGRAGENVGVL
 B1XBY2 283 EGRAGENVGVLRLGI**K**REEIERGQVLAKPGT
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 B1XBY2 325 YILSKDEGGRHTPFF**K**GYRPQFYFRTTDTV
 B1XBY2 358 ELPEGVEMVMPGDNI**K**MVVTLIHPIAMDDGL
 B1XBY2 391 AIREGGRTVGAGVVA**K**VLSLVKAVVGAGVTR
 B1X843 7 ALKENLESMSELNE**K**LATAWEGFTKGDWQN
 B1X843 17 SELNEKLATAWEGFT**K**GDWQNEVNVDRDFIQK
 B1X843 32 KGDWQNEVNVDRDFI**Q**KNYTPYEGDESFLAGA
 B1X843 57 SFLAGATEATTTLWD**K**VMEGVKLENRTHAPV
 B1X843 96 TITSHDAGYINKQLE**K**IVGLQTEAPLKRALI
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 B1X843 162 QGVFDVYTPDILRCR**K**SGVLTGLPDAYGRGR
 B1X843 197 YRRVALYGIDYLMKD**K**LAQFTSLQADLENGV
 B1X843 235 LREEIAEQHRALGQM**K**EMAAKYGYDISGPAT
 B1X843 240 AEQHRALGQMKEMA**K**YGYDISGPATNAQEA
 B1X843 268 QEAIQWTFYGYLA**A**VKSQNGAAMSFGRTSTF
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 B1X843 312 ITEQEAQEMVDHLVM**K**LRMVRFLRTPEYDEL
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 B1X843 385 PNMTILWSEKLPLN**F**KKFAAKVSIDTSSLQY
 B1X843 386 NMTILWSEKLPLN**F**KKFAAKVSIDTSSLQYE
 B1X843 428 DDYAIACCVSPMIVG**K**QMQFFGARANLAKTM
 B1X843 456 KTMLYAINGGVDEKL**K**MQVGPKSEPIKGDVL
 B1X843 462 INGGVDEKLKMQVGP**K**SEPIKGDVLNYDEV
 B1X843 489 DEVMERMDHFMDWLA**K**QYITALNIIHYMHDK
 B1X843 544 GLSVAADSLSAIKY**A**KVKPIRDEDGLAIDFE
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 B1X843 615 PTQSVLTITSNVVY**G**KKTGNTPDGRRAGAPF
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 B1X843 643 APFGPGANPMHGRD**Q**KGAVASLTSVAKLPFA

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 B1XBY6 6 VRMRKTLKAMMAKLT**K**RMRVIREKVDATKQY
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 B1XBD9 268 RNDPLAMQRL**KE**AAEKAKIELSSAQQTDVNL
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 B1XDP7 7 GFKVDKAAMMAAKDVKFGNDARVKMLRGVNV
 B1XDP7 28 RVKMLRGVNVLADAVKVTLGPKGRNVVLDKS
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 B1XDP7 207 GMQFDRGYLSPYFINKPETGAVELESPFILL
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 B1XDP7 311 TGGTVISEEIGMELEKATLEDLGQAKRVVIN
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 B1XBY5 45 QQGVNIMEFCKAFNAKTDSIEKGLPIPVVIT
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 B1XBY5 95 LKKAAGIKSGSGKPNKDKVGKISRALQEI
 B1XBY5 97 KAAGIKSGSGKPNKDKVGKISRALQEIQT
 B1XBY5 100 GIKSGSGKPNKDKVGKISRALQEIQTAKA
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 B1X6H1 56 ANDGYRAIQVTTGAKKANRVTKPEAGHFAK
 B1X6H1 62 AIQVTTGAKKANRVTKPEAGHFAKAGVEAGR
 B1X6H1 105 FTVGQSSISVELFADVKKVDVTGTSKKGKGFAG
 B1X6H1 114 ELFADVKKVDVTGTSKKGKGFAGTVKRWNFRT
 B1X6H1 116 FADVKKVDVTGTSKKGKGFAGTVKRWNFRTQD

B1X6H1	123	DVTGTSKGGFAGTV K RWNFRQTQDATHGNSL
B1X6H1	154	SHRVPGSIGQNQTPG K VFKGKKMAGQMGNER
B1X6H1	157	VPGSIGQNQTPGKV F K GKKMAGQMGNERTV
B1X6H1	159	GSIGQNQTPGKV F K GKKMAGQMGNERTVQS
B1X6H1	160	SIGQNQTPGKV F K GKKMAGQMGNERTVQSL
B1X6H1	190	LDVVRVDAERNLLL V K GAVPGATGSDLIVKP
B1XD38	11	SVTAMMATVSMRDML K AGVHFGHQTRYWNP
B1XD38	26	KAGVHFGHQTRYWNP K MKPFIFGARNKVHII
B1XD38	28	GVHFGHQTRYWNP K MKPFIFGARNKVHIINL
B1XD38	37	YWNPKMKPFIFGARN K VHIINLEKTVPMFNE
B1XD38	45	FIFGARNKVHIINLE K TVPMFNEALAELNKI
B1XD38	64	MFNEALAELNKIASR K GKILFVGTKRAASEA
B1XD38	66	NEALAELNKIASR K GKILFVGTKRAASEAVK
B1XD38	73	NKIASRKGKILFVG T K RAASEAVKDAALSCD
B1XD38	81	KILFVGTKRAASEAV K DAALSCDQFFVNH
B1XD38	105	FFVNHRLGGM L TNW K TVRQSIKRLKDLETQ
B1XD38	112	LGGMLTNW K TVRQSI K RLKDLETQSQDGT
B1XD38	128	RLKDLETQSQDGT F D K LTKKEALMRTRELEK
B1XD38	131	DLETQSQDGT F D K LTKKEALMRTRELEKLE
B1XD38	132	LETQSQDGT F D K LTKKEALMRTRELEKLE
B1XD38	143	KLTKKEALMRTRELE K LENSLGGIKDMGGLP
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B1XDP6	55	VLAVGNRILENGEV K PLDVKVGDIVIFNDG
B1XDP6	77	GDIVIFNDGYGV K SEKIDNEEVLIMSESDIL
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B1XDV3	22	DKVANLGSLGDQVNV K AGYARNFLVPQGKAV
B1XDV3	41	ARNFLVPQGKAVPAT K KNIEFFEARRAELEA
B1XDV3	89	ALETVTIASKAGDEG K LFGSIGTRDIADAVT
B1XDV3	141	GEHEVSFQVHSEVFA K VIVNVVAEAVVNVIV
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P68432	37	ATKAARKSAPATGGV K KPHRYRPGTVALREI
P68432	38	TKAARKSAPATGGV K KPHRYRPGTVALREIR
P68432	57	YRPGTVALREIRRY Q KSTELLIRKLPFQRLV
P68432	65	REIRRYQKSTELLIR K LPFQRLVREIAQDFK
P68432	80	KLPFQRLVREIAQDF K TDLRFQSSAVMALQE
P68432	123	TNLCAIHAKRVTIMP K DIQLARRIRGERARE
P00366	98	DKLVEDLKTRETEE Q KRNRVRSILRIIKPCN
P00366	147	IEGYRAQHSQHRT P C K GGIRYSTDVSVDV
P00366	171	VSVDEVKALASLMTY K CAVVDVPFGGAKAGV
P00366	183	MTYKCAVVDVPFGG A KAGVKINPKNYTDNEL
P00366	187	CAVVDVPFGGAKAGV K INPKNYTDNELEKIT

P00366 191 DVPFGGAKAGVKINP**K**NYTDNELEKITRRFT
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 P00366 258 TIGHYDINAHACVTG**K**PISQGGIHGRISATG
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 P00366 390 DCDILIPAASE**K**QLTKSNAPRVKAKIIAEGA
 P00366 399 SE**K**QLTKSNAPRVKAKIIAEGANGPTTPEAD
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 P00366 480 HLLMSVQESLER**K**FGKHGGTIPIVPTAEFQD
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 P00346 45 LGASGGIGQPLSL**L**LKNSPLVSRLTYDIAH
 P00346 78 GVAADLSHIETRA**T**V**K**GYLGPEQLPDCLKGC
 P00346 165 ITAEVFKKHGVYN**P**N**K**IFGVTTLDIVRANAF
 P00346 203 DPARVSVPVIGGHAG**K**TIIP**L**ISQCTPKVDF
 P00346 269 AGARFVFS**L**VDAMNG**K**EGVVECSFVKSQETD
 P00346 279 DAMNGKEGVVECSFV**K**SQETDCPYFSTPLLL
 P00346 296 QETDCPYFSTPLLL**G**KGIEKNLGIGKISPF
 P00346 314 IEKNLGIGKISPF**E**E**K**MIAEAIPELKASIKK
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 P00346 338 LKASIKKGEEFVKNM**K**MNKVFEEGKKISAKL
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 P00889 49 KDILADLIPKEQAR**I**KTFRQQHGNTVVQGQIT
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 P00889 143 IPTEEQVSWLSKEWA**K**RAALPSHVVTMLDNF
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 P00889 208 KYWELIYEDCMDLIA**K**LPCVAAKIYRNLYRE
 P00889 215 EDCMDLIAKLPCVAA**K**IYRNLYREGSSIGAI
 P00889 233 RNLYREGSSIGA**I**DS**K**LDWSHNFTNMLGYTD
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P32020 40 MKPGGENSRDYPDMA**K**EAGQKALEDAQIPYS
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P38647	555	GREQQIVIQSSGGLS K DDIENMVKNAEKYAE
P38647	563	QSSGGLSKDDIENMV K NAEKYAEEDRRKKER
P38647	575	NMVKNAEKYAEEDRR K KERVEAVNMAEGIIH
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P38647	654	SLQQASLKL FEMAY K MASEREGSGSSGTGE
Q9JHI5	184	NAGSDVVSMLKAE K KGDHYVLNGNKFWITN
Q9JHI5	243	VEKGMPGFSTSKKLD K LGMRGSNTCELVFED
Q9JHI5	272	EDCKVPAANVLSQES K GVYVLM SGLDLERLV
Q9JHI5	356	VYNVAKACDEGHIIP K DCAGVILYAAECATQ
Q5FW57	43	YGTVFHMQGNPFKL K ALVDKWPDFNTV VVR
P05202	52	EMGPPDPILGVTEAF K RDTNSKKMNLGVGAY
P05202	150	TGALRVGASFLQRFF K FSRDVFLPKPSWGNH
P05202	235	DPRPEQWKEIASVV K KKNLFAFFDMAYQGFA
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Q8VCW8	169	VNPAYQSSELEYVLR K VGCKGIVFPKQFKTQ
Q8VCW8	398	AGSPAPPELIRAIIN K MNMKELVVVYGTTEN

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Q8VCW8	559	KDERMGEEICACIRL K SGETTTAEEIKAFC
Q8VCW8	574	KSGETTTAEEIKAFC K GKISHFKIPRYIVFV
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D3Z0E6	42	VDQELIEDGQWEEIL K QPCPSQYSAIKEEDL
D3Z0E6	128	TIWGVGLGLGAFGF Q L K EAPAGKHIITTTTRSH
D3Z0E6	134	GLGAFGF Q L K EAPAG K HIITTTTRSHSNQLVT
D3Z0E6	190	EGKASAYVFASPG C K WDTCAPENVILHAVGG
D3Z0E6	206	WDTCAPENVILHAVGG K LTDIHGNALQYNKEV
Q8CHT0	24	RSLLSHAWRGAGLRW K HTSSLKVTNEPILAF
Q8CHT0	54	FSQGS PERDAL Q KAL K DLKGQMEAI PCVVG
Q8CHT0	89	TSDIQYQLSPFNHAH K VAKFCYADKALLNRA
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Q8CHT0	317	DRFRTFPRLAGECG G K NFHFVHSSADVDSVV
Q8CHT0	400	TFFSAVIDAKAFARI K KWLEHARSSPSLSIL
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Q8CHT0	436	NESVGYVVEPCII E S K DPQEPIMKEEIFGPV
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A2AQY8	217	TGWKVGWVMGPDNIM K HLRTVHQNSIFHCPT

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Q9CZD3	209	KDVKNGECEFRADHLL K AHLQKLMSDKKCSAE
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Q99MR8	501	PQHHKDLLPSHSTIA K ESVCQAALGLILKEK
Q99MR8	606	CTYLKSSINGVARKS K FILLDNTVHLFSMEG
Q99MR8	683	DSLMMIAMKMEHTI K APKDGRICKVFFSEG
Q99MR8	686	MVMIAMKMEHTIKAP K DGRICKVFFSEGAQA
P54071	80	FIKEKLILPHVDVQL K YFDLGLPNRDQTNDO
P54071	155	RNILGGTVFREPIIC K NIPRLVPGWTKPITI
P54071	242	SISGFAHSCFQYSIQ K KWPLYLSTKNTILKA
P54071	243	ISGFAHSCFQYSIQ K KWPLYLSTKNTILKAY
P54071	340	GSLGLMTSVLPCPDG K TIEAAAHGTVTRHY
P54071	426	MTKDLAGCIHGLSNV K LNEHFLNTTDFLDTI
B1AXW4	16	MSSGNAKIGYPAPNF K ATAVMPDGQFKDISL
B1AXW4	67	CPTEIIAFSDRADEF K KLNCQVIGASVDSHF
B1AXW4	92	SVDSHFCHLAWINTP K KQGGLGPMNIPLISD
P10518	159	EESRQRLAEVALAYAK K AGCQVVAPSDMMDGR
P10518	267	KPGLPYLDMVREVVD K HPHELPLAVYQVSCEF
P36552	93	AAAAFGHVQRAEMVP K SSGARSPSPGRREED
P36552	138	PVTELRELRRRPEDM K TKMELMIMETQAQVC
P36552	140	TELRELRRRPEDM K TKMELMIMETQAQVCRA
P36552	239	KLPFTAMGVSSVIHP K NPYAPTMHFNYRYFE
P36552	336	RGIGGIFFDLDS K EEAFRFVKTCAEAVV
P36552	360	TCAEAVVPSYVPIV K KHCDDSYTPRDKLWQQ
P36552	439	ENSKEAEILEVLRHP K DWVHVWDKPHRLVEL
Q9CPY7	34	VRGLWDRGLSTADMT K GVLVGIYAKDKDDDL
Q9CPY7	43	STADMTKGLVLGIYAK K DKDDDLPOFTSAGES
Q9CPY7	118	KRSAGVDDQENWHEG K ENIRAAVAAGCRQVQ
Q9CPY7	168	EGAVLGLYEYDDLQ K KKVAVSAKLHGSGDL
Q9CPY7	176	EYDDLQKKKVAVS K LHGSGDLEAWEKGV
Q9CPY7	188	VSAKLHGSGDLEAWE K GVLFASGQNLARHLM
Q9CPY7	224	EMTPTRFAEIIIEKNL K SASSKTKVHIRPKSW
Q9CPY7	237	NLKSASSKTKVHIR K SWIEEQEMGSFLSVA
Q9CPY7	417	SGATGVFTNSSWLWN K LFEASVETGDRVWRM
Q9CPY7	497	IAGVMTNKDEIPYLR K GMSGRPTRTLIEFLL
F8WJ41	60	GYIGEFEIIDDHRAG K IVVNLTGRLNKCGLVI
Q9D6R2	85	AIQGPGGKWMIPPEA K ESMDKNKMGLKGPLK
Q9D6R2	96	PPEAKESMDKNKMGL K GPLKTPIAAGHPSMN

Q9D6R2	134	DLYANVRPCVSIEGY K TPYTDVNIIVTIRENT
Q9D6R2	169	SGIEHVIVDGVVQSI K LITEEASKRIAFAF
Q9D6R2	226	FLQKCREVAENCKDI K FNEMYLDTVCLNMVQ
Q99L13	315	LLGSLAHQIYRMMCS K GYSKKDFSSVFQYLR
Q99L13	319	LAHQIYRMMCSKGYS K KDFSSVFQYLREEEP
D3YVN7	90	AAITKILAEGGGAKF K KYEEIDNAPEERARG
D3YVN7	395	SLTWDMACRVILPPG K ELAMPGEDLKLSLIL
D3YVN7	405	ILPPGKELAMPGEDL K LSLILRQPMILEKGQ
D3YVN7	418	DLKLSLILRQPMILE K GQRFTRLRDGNKTIGT
Q99LP6	32	ALSFRPSPRLLCTAT K QKNNGQNLDEDLGHC
Q99LP6	58	DLGHCEPKTDPPSAD K TLLEEKAKLEEQLRE
Q99LP6	79	KAKLEEQLRETMEKY K RALADTENLRQRSQK
Q99LP6	153	KSLYEGLMTEVQIQ K VFTKHGLLRDPIGA
Q99LB7	38	LGLQPLATEARPTTE K SVPYQRTLKEEAQGA
Q99LB7	345	GGYEANPIFWEEVSD K FAFGLFDLDWDVFTQ
Q99LB7	776	LVNAGYRAIDSLSIE K GYRHHADLRPDDSP
Q99LB7	816	KLKTSVPFLGREALE K QRATGLRRRLICLTV
Q99LB7	864	VVGHVRRADFGFTV N KTIAYGYIRDPSSGPV
Q9CZR8	132	LVEVNCETDFVSRNL K FQQLVQQVALGTMAH
Q9CZR8	160	MAHCQNLTDRLSTYS K GFLNSSELSLAAGP
P11930	231	YQWLSPSEATECFLS K EIWLAPPQFYEMRRL
P11930	293	SDGTIHLPGDELYV K DSDFLEKNMSTDKKT
P11930	307	VKDSDFLEKNMSTD K KTEEIVKEGKVLNRVV
P11930	340	SPYVYEIYMTLPSEN K HVYPRNYIVNKRCTA
P60867	59	KEKNLKVKGPMRPT K TLRITTRKTPCGEGS
P60867	86	GEGSKTWDRFQMRIH K RLLDLHSPSEIVKQI
Q78J03	76	EKGTEAPFSGMYLNN K ETGMYHCVCCDSPLF
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Q78J03	113	CSGTGWPSFSEAYGS K GSDESHTGILRRLD
O35386	70	LEQRKFYEENGFLVI K NLVSDDDIQRFAEF
O35386	310	TSQENIAREVVEMAE K KYGFQGVMDFKDTWI
O35386	321	EMAEKKYGFQGVMD K DTWIFRSRLVKGERI
P54869	15	MMQRLAPARRVLQV K RAMQETSLTPAHL
P54869	282	DRCYAAAYRKIQNQW K QAGNNQPF ^{TLDDVQY}
P54869	306	TLDDVQYMI ^{FHTPFCK} MOVQSLARLMFNDFL
Q3UNX5	41	YRTATPQNFSNYES M KQDFKIEIPEYFNFAK
Q3UNX5	56	KQDFKIEIPEYFN F AKDVLDQWTNMEKAGKR
Q3UNX5	151	RTGTVLIPGTTQLTQ K DILYRLQSSKAKCII
Q3UNX5	188	PAVDAAAKCENLHS K LIVSQHSREGWGNLK
Q3UNX5	336	PTAYRMLVQNDMSSY K FNSLKHCVSAGEPIN
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Q3UNX5	388	TETVLICGNFKGMKI K PGSMGKPSPAFDVKI
Q3UNX5	441	ERPFGLFTHYVDNPS K TASTLRGSFYITGDR
Q3UNX5	525	RGEVVKAFIVLNPDY K SHDQEQLKKEIQEHV

Q3UNX5	542	HDQEQLKKEIQEHVK K TTAPYKYPRKVEFIE
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Q9CZL5	92	NQAFGFMSRVALQAE K MNHHPEWFNVYNKVQ
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Q9D9V3	266	SDETTALEQAQEWLE K FVSGPPQVIRGLKKS
Q9D9V3	280	EKFVSGPPQVIRGLK K SVCSARELYIEEALQ
Q9D9V3	317	ETLWGGPANLEAIAK K GKHTKTHKGKKAIAE
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A3KGI3	52	LKCGNQTNQEPNPPR K RKSSRRVSFADTIKV
A3KGI3	75	SFADTIKVFQTESHM K TERNSEISGMNTLLC
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A3KGI3	146	ASHTVMITKGLSDCT K NENSTKIDTTSFLEN
A3KGI3	190	LACSTVSLSQNIFSE K INSDNFIKRLKTGKH
A3KGI3	198	SONIFSEKINSDNFI K RLKTGKHISSTELD
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A3KGI3	478	DITKSHTVAIDNKIF K HQDENIKKEIIAIIPI
A3KGI3	485	VAIDNKIFKHQDENI K KEIIAIIPIFEKEMVL
A3KGI3	496	QENIKKEIIAIIPIFE K EMVLRNLMPSKDEK
A3KGI3	524	DEKRDVNYISVPQVS K ESLQRSQTNTLSVSL
A3KGI3	556	DKKMEFLADEDMDLT K SHTTKLSQVIPTTFD
A3KGI3	596	YSHSKSPLNEWESLD K QVVLGQHSKLPLPQR
A3KGI3	655	TIVIGFGPSEVQEH S KINLEHKNSQLTAESI
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A3KGI3	715	PELLKEKQNIKIYGR S IGRLKIDKTILFSE
A3KGI3	745	EGNEGDMDITKSCTV K INHRSLLDKHDSHLV
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A3KGI3	1070	DTHIQEITKNPAAQH K HHMTTVIPSSTVVSD
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A3KGI3	1995	VHKLIFQYIEEQESW K KKCTAQHQVPQMLQE
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A3KGI3	2059	NTELRLLFSSCAAF K FEITLSPSAHYPLVP
A3KGI3	2106	IAAIIISKVPLEENYL K NVVKQIYQDLLKDKL
P09103	44	LVLKKSNFEEALAAH K YLLVEFYAPWCGHCK
P09103	59	KYLLVEFYAPWCGHC K ALAPEYAKAAAKLKA
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D3Z041	49	GAFaalTTFWYATRP K ALKPPCDLSMQSVEI
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D3Z041	141	EVAELAECIGSGLIQ K GFKPCSEQFIGLFSQ
D3Z041	217	DKPEKAKLLLEGVEN K LTPCLKIIVIMDSYG
D3Z041	387	NRMFDRIFGQANTSL K RWLLDFASKRKEAEL
D3Z041	396	QANTSLKRWLLDFAS K RKEAELRSGIVRNNS
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D3Z041	558	GKWLPNGTLKIIDRK K HIFKLAQGEYIAPEK
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P47199	216	KEANYIDKIKMSVGD K DKGVDVIEMLANEN
P47199	218	ANYIDKIKMSVGD K DKGVDVIEMLANENLS
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Q8C4M7	19	RRSLRYSGNPGAKHS K NTLRSTYSRKQKAGP
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Q8C4M7	121	SEDEASGNES I KVST K KPRRKLEPISGESDS
Q8C4M7	126	SGNESIKVSTKKPRR K LEPISGESDSSADDV
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Q8C4M7	278	SESCNQAIN K FYFKM K GELIRMLKEAQLKA
Q8C4M7	300	LKEAQLKALKMKNT K I IANMEKKRQRLIEV
Q8C4M7	307	KALKMKNT K I IANME K KRQRLIEVQDELIRL
Q8C4M7	340	QLKQLQTKYDDLKER K SSLKSKHFLSNLKQ
Q8C4M7	344	LQTKYDDLKER K SSL K SKHFLSNLKQLCQD
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Q9QXD1	137	AMNAIRSLGSDEQIA K WGQLGKNFQIITTYA
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Q9CZS1	54	NKLFINNEWHDAVSK K TFPTVNPTTGEVIGH
Q9CZS1	161	KVYRYFAGWADKWHG K TIPMDGEHFCFTRHE
Q9CZS1	282	EVGHLIQKAAGESNL K RVTTLELGGKSPSIVL
Q9CZS1	349	YREFLERTVEKAKQ R KVGNPFELDTQQGPQV
Q9CZS1	381	KEQFERILGYIRLGQ K EGAKLLCGGERLGER
Q9DBL7	129	LTDFQTLDG SQYNPV K QQLERYATSCYSCSP
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Q9DBL7	234	EQLVVG VADKDLLKS K LLPELLQPYAERVEH
Q9DBL7	258	YAERVEHLTEFLVD I KPSLTFFELVPLLDPYG
Q9D0Q7	49	QVKTCSRFRPPTPEP K YKTEKEFLEYARKAG
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Q9D0Q7	177	TLVTEHCFPDMVWDL K YKTVRWGFVESLEPA
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Q9R0H0	122	FIPTLLNQGT T AQ K WMHPSQELQIIGTYA
Q9R0H0	241	IGPKFGYEE MDNGYL K MDNYRIPRENMLMKY

Q9R0H0	272	AQVKPDGTYVKPLSN KL TYGTMVFVRSFLVG
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Q9R0H0	510	VEIAAKNLQAQVSHR KS KEVAWNLTSDVLR
Q9R0H0	652	KKSPLNKTEVHESYY KHL KPLQSKLKSQLPK
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P40936	219	HYMVGPKKFSGVYLE KE VVEKAIQDAGCQVL
P40936	235	EVVEKAIQDAGCQVL KC NCVSLSYSEAYCSH
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D3Z2Y8	27	HLGGFRSLCTRATRR QS VLQLGATMLAARL
D3Z2Y8	172	EKAVETIRSGLDPE KG MWGLVNNAGISTFG
D3Z2Y8	213	KEVAEVLNWTVRTT KS FLPLLRRAKGRVWN
F6SAC3	19	PGTRSSRSCWSGTNL KL RELFEADPERFNNF
F6SAC3	67	NLVNKEVMQMLVELA KS RGVEAARDNMFSGS
F6SAC3	83	SRGVEAARDNMFSGS KI NYTEDRAVLHVALR
F6SAC3	171	VAKHFVALSTNTAKV KE FGIDPQNMFEFWDW
F6SAC3	317	TNGQHAFYQLIHQGT KM IPCDFLIPVQTQHP
F6SAC3	414	LTPFILGALIAMYEH KI FVQGIMWDINSFDQ
F6SAC3	467	VTSHDSSTNGLISFI KQ QWDWQQKIFSILGN
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Q6PF96	197	VFAEGCHGHLAKQLY KK FDLRASCDATYGI
Q6PF96	198	FAEGCHGHLAKQLY KK FDLRASCDATYGIG
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Q6PF96	534	QINAQNCVHCKTCDI KD PSQNINWVVEGGG
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P20108	249	WTPESPTIKPSPTAS KE YFEKVHQHVKEFYE
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Q8BGA8	358	LTGGEALNPVDRDKWKSQTGLELHEGYGQSE
A2ARF6	55	LRENLTGTGTEVGDAKQYLEKGLLVPDHVIT
D3Z1U3	41	GKIVFVLCSALNPWNKEMGDHLVKHGDGVKD
Q9EQ20	113	ILSRQQVLLRYQQLIKENLKEIARLITLEQG
Q9EQ20	165	SVTSLMLGETMPSITKDMDLYSYRLPLGVCA
Q9EQ20	287	RGSRNGKRVQANMGAKNHGVVMPDANKENTL
Q9EQ20	389	GTKEGASILLDGRRIKVVKGYENGNFVGPTII
Q9EQ20	408	YENGNFVGPTIISNVKPSMTCYKEEIFGPVL
Q9EQ20	500	TGSRSSFRGDTNFGYKQGIQFYTQLKTITSQ
A2AG39	68	LQIDGVLYLRIMDPYKASYGVEDPEYAVTQL
B1AXW3	85	VPREELFVTSKLWNTKHHPEDVEPALRKTLA
B1AXW3	141	PKNADGTVRYDSTHYKETWKALEVLVAKGLV
D3Z5H8	68	KEHVWGVLPQVVDREKATIVPVLANVGPLDL
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F6RSH1	34	KLDPALQDKCLIDLKWCSEKTETGQEELECL
F6RSH1	39	LQDKCLIDLKWCSEKTETGQEELECLQDHL
F6RSH1	114	NQIDSGDLMECLIQNKHQKDMNEKCAIGVTH
F6RSH1	117	DSGDLMECLIQNKHQKDMNEKCAIGVTHFQL
F6RSH1	122	MECLIQNKHQKDMNEKCAIGVTHFQLVQMKD
F6RSH1	143	THFQLVQMKDFRFSYFKFMACKEDVLKLCPN
F6RSH1	154	RFSYKFKMACKEDVLKLCPNIKKVDVVICL
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F6RSH1	254	ENKKQLSTRCHQKVFKLQETEMMDPELDYTL
F6RSH1	278	PELDYTLMRVCKQMIKRFCEADSKTMLQCL
F6RSH1	305	LQCLKQNKNSELMDPKCKQMITKRQITQNTD
F6RSH1	312	KNSELMDPKCKQMITKRQITQNTDYRLNPVL
F6RSH1	347	KADIPKFCHGILTKAKDDSELEGQVISCLKL
F6RSH1	521	MEALEDKRVRLQPECKKRLNDRIEMWSYAAK
F6RSH1	556	DGFSDLAMQVMTSPSKNYILSVISGSICILF
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F6RPJ9	147	RFAQFFLCPLFDASCKDREVNAVDSEHEKNV
F6RPJ9	174	EKNVMNDAWRLFQLEKATGNPKHPFSKFGTG
F6RPJ9	180	DAWRLFQLEKATGNPKHPFSKFGTGNKYTLE
F6RPJ9	185	FQLEKATGNPKHPFSKFGTGNKYTLETRPNQ
F6RPJ9	191	TGNPKHPFSKFGTGNKYTLETRPNQEGIDVR
F6RPJ9	368	LHVEDIILHMFQYIQKLRAEGPQEWVFQECK
F6RPJ9	393	VFQECKDLNAVAFRFKDKERPRGYTSKIAGK
F6RPJ9	489	PEDIIQKWQNADLNGKFKLPTKNEFIPTNFE
F6RPJ9	520	ILSLEKDATPYPALIKDTAMSKLWFKQDDKFK
F6RPJ9	526	DATPYPALIKDTAMSKLWFKQDDKFFLPKAC

F6RPJ9	600	SYDLQNTIYGMYSV K GYNDKQPILLKKITE
F6RPJ9	616	GYNDKQPILLKKITE K MATFEIDKKRFEIIK
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Q920E5	144	INDALLLEASIYRLL K FYCREQPYLNLLEL
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Q8K370	93	AFIRGGDSGPWIRFI K GEITTEHFLEEFGR
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Q8K370	239	LGIHTIKVDRPETAV K ELEALLGFPLHLGVP
Q8K370	567	AFSFFRVAAILOGVY K RSLTGQASSATAQOS
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Q9DCN1	282	VVAQARSVLAWHSRY K FCPTCGSATKIEEGG
Q9DCN1	299	CPTCGSATKIEEGGY K RVCVRETCPSLQGVH
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P53395	46	VLKPKCVCSVGYPL F K YSQPRHSLRTAAVLQ
P53395	68	SLRTAAVLQGVVQ F K LSDIGEGIREVTIKE
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A7M7Q8	7	KEKLVGARMMRAGVL K EKPLWYDIYKAFPPL
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G3UYJ7	22	DLMSQPCRAVYIF A K KNGIPFQLRTIELLK

G3UYJ7	36	KKNGIPFQLRTIELL K GQQYTDSFAQVNPLR
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G3UYJ7	191	RVSVTIRPGMTLLMN K STEPCAHLLVSSIGV
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B2RS91	337	YIEDVCRVHGKIDNN K TKDLYRDLISIFDKL
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Q9DC69	370	RHRTYRWLSSEIEET K PAKTVN N VT K APKT
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Q91V64	130	VFFCCDMQERFRPAI K YFGDIISVGQRL L QG
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G5E823	210	MCEILSGLQLGDFLI K VNDRRVVDGIFAVCG
G5E823	356	QERLKIIAELWDAGI K AEMLYKNNPKLLTQL
G5E823	396	LMVIIGEQRNEGV I KLRSVASREEVTINRE
D3Z1F5	202	SLIYHVASQQIQ T LE K LGFPMYAHVDKANFT
Q2TPA8	42	ALKAAKDGANIVIAA K TTQKHPKLLGTIYTA
Q2TPA8	91	RDEQQINSAVEKAVE K FGGIDILVNNASAI
Q2TPA8	220	AMDMLGGSGVENQCR V DIADAAYSIFKRP
Q2TPA8	233	CRKVDIIADAAYSIF K RPKSFTGNFIIDENI
Q2TPA8	236	VDIIADAAYSIFKRP K SFTGNFIIDENILKE
Q2TPA8	450	DRADVMSMATDDFV K MFSGKLKPTMAFMSG
Q2TPA8	481	KLKIKGNIALAIKLE K LMTQMNSRLRSNMQT
Q64374	97	WENQSVFVLAMVDED K KNNRFNDGKVDPAGR
Q64374	145	HQGSLSLFPDHSV K YFDQVDISNGLDWSL
Q64374	163	DQVDISNGLDWSLDH I IFYYIDSLSYTVDAF
Q64374	213	KDEQIPDGMCIDAE G KLWVACYNGGRVIRLD
O88737	80	GPGPGPGSVPRRLD P KEPLGSQRTTSPTPKQ
O88737	193	TPSQPNFNTCTQCHN V CNQCGFNPNPHLTQ
O88737	210	CNQCGFNPNPHLTQ V KEWLCLNCQMQRALGM
O88737	234	MQRALGMDMTTAPRS K SQQQLHSPALSPAHS
O88737	391	SPSKGQPKIVFSDAS K EAGPRPPGSGPGPGP
O88737	411	RPPGSGPGPGPTPGA K TEPGARMGPGSGPGA
O88737	488	MGSRGPANYNTCTAC L QVCNLCGFNPTPHL
O88737	517	HLVEKTEWLCLNCQ T KRLLEGSLGEPAPLPL
O88737	553	PPAGVPHRAAGAA P L K QKGPQGLGQPSGSLP
O88737	647	VPKPPPETTVPPGTP K AKSGVKRTDPATPVV
O88737	774	WSKPPRSSSSAVEDQ K RRPHSLSITPEAFDS
O88737	904	QKASARPRPESSQEP K RRLPHNATTGYEELL
O88737	1034	SPSRRQRLEEAKQQR K ARHRSHGPLLPTIED
O88737	1359	GGRVIPDVRVTQH F A K EPQDPLKLHSSPVSS
O88737	1500	LSPSTPSESPTFSPG K LGPRATAEFSTQTPS

088737	1751	TVSITMASSVLMAQQ K QPVVYGDPFQSR LDF
088737	1911	GMRPESQLACCDMVY K FPFGSSCTGTFHPAP
088737	2563	LQTEEQWEAGRS G IK K RHSMPRLRDACEPES
088737	2706	PRVSPAIIHITAATDP K VEIVRYISAPEKTGR
088737	3202	TGYSGPAVSGSYEQ G KAPEHPRGSDRSSVSQ
088737	3365	PKHPSKSLAPAAISS K RSKHKRQGMQKISK
088737	3371	SLAPAAISSKRSKHKR K QGMQKISKFSPIEE
088737	3563	DVQEHVKDGPRAHAY K REEGYMLDDSHCVVS
088737	3651	LWPHDEGGPGRHTSA K EHRHSDHGRHSGRH
088737	3732	SSRAPSAYHHASESK K GSRQAHTGPSALQPK
088737	3747	KGSRQAHTGPSALQP K ADTQAQPOMQGRQAA
088737	3936	AEQAGKLTEAVSAFG K KFSFWSFSSFKKGFA
Q9CQB4	29	LDGFRKWYYNAAGFN K LGLMRDDTLHETEDV
O70250	129	IWRRSFDTPPPPMDE K HNYYSISKDRRYAG
O70250	225	LPTGIPIVYELDQNL K PTKPMRFLGDEETVR
O70250	228	GIPIVYELDQNL K PTKPMRFLGDEETVRKAM
G5E897	68	DGRNFTSSPPGQTQ F KVVVKSLSPKELVRIY
G5E897	86	VKSLSPKELVRIYVP K PLDRNDGTFLVRYRM
G5E897	176	QDFVSFPSINLQQML K EVPTFRGDERGAVVH
G5E897	362	KELGKAKLMGFFDFF K YKYQVNV DGTVAAYR
G5E897	407	ESPYEHFYVALKPW K HYVPIKRN LGDLLEK
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Q8K1R3	246	ASAENILQQDFCHAI K VGVKYTQQIIQGIQQ
Q8K1R3	345	EVDQFEIIESFNIVA K EVFRSII LNEYKRCD
Q8K1R3	419	SSIKSDQIITAINGV K DKNFMLHYEFPPYAT
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Q8K1R3	562	IAGTNKGITALQADI K LPGVPIKIIMEAIQQ
Q8K1R3	582	PIKIIMEAIQQASVA K KEILQIMNKTISKPR
Q8K1R3	591	QQASVAKKEILQIMN K TISKPRASRKENG PV
Q8K1R3	630	SKRAKFVGGGYHL K LQAETGVTISQVDEE
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E9Q5A0	334	LERLKVLDGIPPPYD K KKRMVVPAALKVVRL
Q9D0S9	139	AQGLKDG YRLVVNDG K MGAQSVYHLHIHVLG
Q9CQZ6	101	VALGAEYFLDSQNGD K KHHHKKDG NQSDLFY
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E9Q5L3	34	FPTCLSPWKIPPRVL K SSQPEALVSLTNN AV
E9Q5L3	317	LGLAQGCFDYTIPIYI K ERMQFGKRIFDFQGL
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E9Q5L3	384	MAKYYASEVAGLTTS K CIEWMGGVGYTKDYP
E9Q5L3	441	FGLLCLSILYYCYLG S SILISTECLLTFRGW
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Q9JHW2	147	LSPGDSFSTFDTPY C KVGLGICYDMRFAELA
Q9JHW2	234	WGHSTVVDPWGQVLT K AGTEETILYSDIDLK

E9Q1I5	72	LSRHDRGYIQMTHLN K TKTALGFFLWIIICWA
E9Q1I5	262	EDTSEEVVPVLVNNW K KECDKSRKQPVRIVY
E9Q1I5	287	PVRIVYAPPKDPSKP K GSSQLDVNEEVEALI
E9Q1I5	487	AVMILMVPLNAVMA M TKTYQVAHMKSKDNR
E9Q1I5	489	MILMVPLNAVMA M KT K TYQVAHMKSKDNRIK
E9Q1I5	517	RIKLMNEILNGIKVL K LYAWELAFQDKVMSI
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G3UYY2	217	GFVGCALSSNIQRFY K NEEGTWSVEKVIQVP
G3UYY2	234	EEGTWSVEKVIQVPS K KVKGWMLPEMPGLIT
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Q9D0B5	103	LQMPVDFKEKYCQV K PSKSDRLVFSCLAGV
Q9D0B5	106	NPVDFKEKYCQV K PSKSDRLVFSCLAGVRSK
Q9D0B5	143	ISLGFNSAQHYAGGW K EWVTYEISEEKQESE
Q922B1	106	TDWKEAKSFLKGLSD K QREEHYFCKDFIKLK
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Q922B1	295	VVLASLREWLEQHKD K VDRLIICVFLEKDEG
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Q91ZJ5	124	VVVKLNGGLGTSMGC K GPKSLIGVRNENTFL
Q91ZJ5	184	EDTKKILQKYNHCRV K IYTFNQSRYPRIKE
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Q91ZJ5	274	VDLYILNHLMNPPNG K RCEFVMEVTNKTRAD
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P05201	166	AGFKDIRPYCYWDAE KR GLDLQGFLNDLENA
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Q8JZQ2	718	LISDAYRRTVALLTE K KADVEKVALLLLEKE
D3YYK0	97	GTPPGSHIGAFIAAM K AVEIPEKVPHSQARK
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E9PXB0	88	GVQALVGGYIGGLVP K LKSDPKSPPEEQEVS
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E9PXB0	522	QLEGMKYIERNDQ K MKVAKILSQEKTTLQK
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 Q9CXD6 273 LEKSRVKELYSLE**K**MLELRTEIVSLHAQQ
 P62852 29 KSAKKDKDPVNKSGG**K**AKKKKWSKGKVRDKL

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Q14DH7	519	PPGAFSGLWKNQEA F K HLYFEKFPGYDYDMD
Q14DH7	635	QSIGPVAAFRNAV F V K QLPKTRSGKIPRSTL
E9PVS5	132	VMKDSKLPVAQ S Q K T K GDTPASAGDTLSVPA
Q8BFP9	60	QVDFYARFSPSPL S M K QFLDFGSVNACEKTS
Q8BFP9	92	MFLRQELPVRLANIM K EISLLPDNLLRTPSV
Q8BFP9	125	VQSWYIQSLQEL L D F K DKSAEDAKTIYEFTD
Q8BFP9	280	VYVPSHLYHMFEL F K NAMRATMEHHADKGV
Q8BFP9	407	TESVERLPVYNKAA W K HYKANHEADDWCVPS
Q3UEJ6	204	LYPNDNFFEGKELRL K QEFVVAATLQDVIR
Q3UEJ6	478	YKVKINPSSMFDVHV K RIHEYKRQLLNCLHV
Q3UEJ6	549	TSVAEVVNNDPMVG S K LKVIFLENYRVSLAE
Q3UEJ6	669	QIDNGFFSPNQ P D L F K DIINMLFYHDRFKVF
Q3UEJ6	728	KNIAASGKFSSDRTI K EYAKDIWNMEPSDLK
Q3UEJ6	732	ASGKFSSDRTI K EYAKDIWNMEPSDLKISLS
Q9JK42	287	PIKIMVALGEEDLSI K MSDRGGGVPLRKIER
Q9JK42	299	LSIKMSDRGGGVPLR K IERLFSYMYSTATP
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P63017	415	SLGIETAGGVMTVLI K RNTTIPTKQTQTFTT
P63017	507	DKSTGKENKITITND K GRLSKEDIERMVQEA
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P28271	57	LLEAAVRNCDEFLV K K NDIENILNWNVMQHK
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P28271	113	AAMRDAVKKLGGN P E K INPVCPADLVIDHSI
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P28271	246	LGQPISMVLPQVIGY K LMGKPHPLVTSTDIV
P28271	364	TSQDPDFTQVVELDL K TVVPCCSGPKRPQDK
P28271	386	SGPKRPQDKVAVSEM K KDFESCLGAKQGFKG
P28271	785	AGKEYGSGSSRDWAA K GPFLLGKAVLAESY
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E9PWH2	145	EKECLDLRALKFFTY K ESGHRELAVSSRENQ
E9PWH2	228	GFPEDEVETVLEEEAG K DPQCFVYDNEEEWEN
E9PWH2	417	PDAENNKSILMMGAM K DLKQHATQSSGGPPR
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 Q91XF0 17 TCGLLSVTVTFR**R**PA**K**WTGYLRHLCCRGAVM

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Q9CQA3	43	CRGAQTAAAAAPRI K FAIYRWDPDKTGDKP
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O09173	252	RRVPGGYTVINKFQ G KLFAKQDVSPFNVVA
O09173	410	TMAFMFESSLSLAVT K WGLKTCSCLDENYYK
F8WIT2	191	LVQQDVQDLYEAGEL K WGTDEAQFIYILGNR
F8WIT2	406	THRSNAQRQQIRQTF K SHFGRDLMADLKSEI
F8WIT2	445	LGLMPPPAHYDAKQL K KAMEGAGTDEKTLIE
F8WIT2	478	ATRTNAEIRAIN EAY K EDYHKSLEDALSSDT
F8WIT2	574	EFIKKTNYDIEHVI K KEMSGDVKDAFVAIVQ
F8WIT2	638	RSEIDLLNIRREFIE K YDKSLHQAIEGDTSG
Q9DCV4	225	CYTFAEMPWYQRRIA K VLFANPPSSTYEEAL
Q62452	202	YVPRLFSKYTDTMTF K ERVWNHLIYIEEHAF
Q62452	397	PMVMMPLFGDQMDNA K RMETRGAGVTLNVLE
Q62452	511	TVVFIVFKCCAYGCR K CFGGKGRVKKSHKSK
Q571F8	178	HVDRIFEDAKEPTGG V AAAYIPHLAKSNPDL
Q571F8	212	SLCTVDGQRH SVGHT K IPFCLQSCVKPLTYA
Q571F8	244	SVSTLGTDYVHKFVG K EPSGLRYNKL SLNEE
Q571F8	329	EKETGDRNYAIGYYL K EKKCFPKGVDMM AAL
Q571F8	336	NYAIGYYLKEKKCF P KGVDMM AALDLYFQLC
Q571F8	549	VVKFLIEACKVNPFFV K DRWGNIPLDDAVQFN
Q60932	41	SARDVFTKGYGFGLI K LDLKT KSENGLEFTS
Q60932	66	GLEFTSSGSANTETT K VNGSLET KYRWTEYG
Q60932	122	GLKLTFDSSFS PNTG K KNAKIKTGYKREHIN
Q60932	128	DSSFS PNTGKKNAKI K TGYKREHINLGCDVD
Q60932	269	SLIGLGYTQTLKPGI K LTL SALLDGKNVNAG
D3Z0J2	34	DLVNRDPKHLNDDVV K IDFEDVIAEPEGTGE
D3Z1A9	14	AMMASNKTTLQKMG K QNGKSKKV EEAEP EE
F2Z494	79	KVKVNKDDIQMNPP K FSKVEDMAELTCLNE
E9PVX6	249	SMKEELDVKSQKSCR K SEPQPDRAAEESRET
E9PVX6	415	QKRLSLTQRLVPGE K KTPKGSFSKPEKLATA
E9PVX6	455	GLSSVDISNFGDSIN K SEGMPMKRRRV SFGG

E9PVX6	462	SNFGDSINKSEGMPM K RRRVSFGGHLRPELF
E9PVX6	495	NLPPNTPLKRGETPT K RKSLGTHSPAVLKTI
E9PVX6	512	KSLGTHSPAVLKTI I KERPQSPGQESPGIT
E9PVX6	560	SKFLCETDIPKKAGR K SGNLPAKRASISRSQ
E9PVX6	618	DVVKLGVKQTQTKVA K HVPQKQTSKRQRRPS
E9PVX6	623	GVKQTQTKVAKHVPQ K QTSKRQRRPSTPKKP
E9PVX6	685	PARPYKMLNNLMLNR K VDFSEDLSGLTEMFK
E9PVX6	853	ENTTARHLRGTFREQ K VDDQQVDNENAPQRC
E9PVX6	1252	QAEPVKTPASTKRRS K MSLMKVDMKELSILE
E9PVX6	1418	PVQEENDCTAYMETP K QKLESIENLTGLRKQ
E9PVX6	1520	LQLGEGVDTFQVSTN K VIRSSRKPAKRKLD
E9PVX6	1543	PAKRKLDSTAGMPNS K RMRCSSKDNTPCLED
E9PVX6	1760	EVVHIPIGPEDDTEN K GVKESTPQTLDSAS
E9PVX6	1838	LQSPQPGHIINPASM K RQSNMSLRKDMREFS
E9PVX6	2027	FTGNSSGHKRRPQTP K IRAQPLEDLDFQEL
E9PVX6	2388	AIYVTRGKRQQRSC K RSQSPEDLSGVQEVF
E9PVX6	2601	TQKEPISDNQGMEEF K ESSVQKQDPSVSLTG
E9PVX6	2828	SRKVPEIGNGTQVS K ASIKQTLDTVAKVTG
E9PVX6	2876	LGDSKEITQISDHSE K LAHDTSILKSTQQQK
E9PVX6	2896	TSILKSTQQQKPD S V K PLRTCRRVLRASKED
E9PVX6	3031	RENPVTPDQNSRYRK K TNVKQPRPKFDASAE
E9PVX6	3035	VTPDQNSRYRK K TNV K QPRPKFDASAENVGI
D3Z7C6	67	EIDLFHCIDPNDSKH K RTDRSILCCLRKGES
Q9Z204	42	VVKKSDVEAIFSKY G KIVGCSVHKGFVQY
Q9Z204	98	NLAAEPKVNRGKAG V KRSAAEMYGSVPEHPS
Q9Z204	237	QSKQADLSFSSPVEM K NEKSEEEQSSASVKK
P98200	111	IIEDFKRHKADNAVN K KKTIVLRNGMWHTIM
P98200	128	KTIVLRNGMWHTIM K EVAVGDIVKVLNGQY
P98200	254	TQWVFGVVVYTGHD S KLMQNSTKAPLKRSNV
P98200	919	PQLYRITQNAEGFNT K VFWGHCINALVHSLI
P98200	1142	GAVTQEEIVRAYDTT K ENSRKKKRSNEKTTD
Q9QZ82	70	GWLNLHYHFWRESGTQ K IHYHQMOSFQKYGPI
Q9QZ82	139	VAYHQYYQRPIGVLF K SSDAWKKDRIVLNQE
Q9QZ82	261	NLPPDFFRLLRTKTW K DHAAAWDVIFNKADE
Q9QZ82	273	KTWKDHAAAWDVIFN K ADEYTQNFYWDLRQK
Q9QZ82	288	KADEYTQNFYWDLRQ K RDFSQYPGVLYSLLG
Q9QZ82	521	NFQPLKQDLGPAVTR K DNTVNVNTNDKRTVAP
P15864	137	KAGAAKAKKPAGAA K PKKATGAATPKKAAK
P17095	23	SSQPLASKQEKDGTE K RGRGRPRKQPPVSPG
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Q9CZJ1	134	LKSELHLLDFQKGQ K KHVFFFDTKKEVERF
Q9CZJ1	223	REKQLFVVAQKIQTR K DLMDKTQKVKKKET
Q9CZJ1	231	AQKIQTRKDLMDKTQ K VKVKKETVNSPAIYR

P43275	87	GYDVEKNNSRIKLGL K SLVNGTLVQTKGTG
P43275	125	NKKAESKAITTKVSV K AKASGAACKPKKTAG
P43275	198	KAKAVKPKASKAKVT K PKTPAKPKKAAPKKK
P70378	74	RQDRGPEPQLKGIVT K LFCRQGFYLOANPDG
A6ZI44	141	PCIGGVILFHETLYQ K ADDGRPFPQVIKSKG
B7ZC50	191	TGEPMGRGTKVILHL K EDQTEYLEEREELYE
P11438	140	AISKEIYTMDSTTDI K ADINKAYRCVSDIRV
P11438	180	RDATIQAYLSSGNFS K EETHCTQDGPSPTTG
P11438	267	NDTSSGSCGINLVTL K VENKNRALELQFGMN
P11438	337	GNSYKCNTEEHIFVS K MLSLNVFSVQVQAFK
D3Z6I7	168	RYEVEETEVIKSYQ K NSYQDAEDKKKEEKE
D3Z6I7	218	KGVKGQAQRQKPRDD K PAFRKEEIKDEKIKK
D3Z6I7	267	TEVKAQNGEFMTHKL K QTENAFSRSGGRASG
D3Z6I7	296	SGDKEAEGAPQVEAG K RLEELRRRRGETENE
D3Z6I7	393	AEKRQKMPEDGLSED K KPFKCFTPKGSSLKI
D3Z6I7	421	LKIEERAFLNKS V Q K SGVRSTHQAQAVVSKI
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D3Z6I7	542	DLRPGDVSGKRNLWE K QSVDKVTSPTKVKTP
Q6IRU2	212	KEAETRAEFAERTVS K LEKTIDDLEEKLAQA
Q8K009	121	PFCTQFIPMDVIDSP K HGSIYHPSLLPRHR
Q8K009	349	VVELTAEELKVAETI K VIWARILSNTPVIED
Q8K009	440	MVVDYVSKEVNGMTV K IPYQCFINGQFVDAE
P08113	270	ASDYLELDTIKNLVR K YSQFINFPIYVWSSK
P08113	340	KVEKTVWDWELMNDI K PIWQRPSKEVEEDEY
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P08113	537	TSLDQYVERMKEKQD K IYFMAGSSRKEAESS
P08113	682	YQTGKDISTNYIASQ K KTFEINPRHPLIRDM
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Q80X90	360	VNVDKAQGDASKVTA K GPGLTTGNIANKPT
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Q80X90	628	PGEYAVHIMCDEDEDI K DSPYMAFIHPATGDY
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Q80X90	712	KSRMDGTYACSYTPL K AIKHTIAVVWGGVNI
Q80X90	744	HSPYRVNIGQGSHPQ K VKVFGPGVERSGLKA
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Q80X90	1221	MKYGGELVPHFPAWV K VEPAIDTSGIKAFGP
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Q80X90	1801	VRYAPTEVGLHEMHI K YRGSHIPESPLQFYV

Q80X90	1872	AIEGPSKAEISCIDN K DGTCTVTYLPTLPGD
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Q80X90	1980	SFIPREVGEHLVSIK K NGNHVANSPPVSIMVV
Q80X90	2120	APAVATVGSICDLNL K IPEINSSDMSAHVTS
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Q80X90	2507	SVTRSSTETCYSaip K SSSDASKVTSKGAGL
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Q6P5E4	156	EPPPEGCKSFLSVHG K QTCDLDTLESLLLTA
Q6P5E4	256	LSGYGVELAIKSTEY K AKDDTQVKGTEVNAT
Q6P5E4	617	VNSILGIDSAYDQNR K EARGYYEQTGVGPLP
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Q6P5E4	703	QPNVVPRINSRILT K REYLDLTASNIFYVD
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E9Q5T3	251	GGSLPKVEAKFINYV K NCFRMTDQEAIQDLW
F6VJC5	602	LSSQYSDLASLACMS K YSAGCIFYYPSFHST
B8JJK2	14	GMMGAYKYIQELWR K QSDVMRFLLRVRCWQ
B8JJK2	47	QLSALHRAPRPTRPD K ARRLGKAKQGYVIY
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P62827	141	IKDRKVKAKSIVFHR K KNLQYYDISAKSNYN
P62827	152	VFHRKKNLQYYDISA K SNYNFEKPFLWLARK
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Q8VDD5	407	PRIKVGRDYVQKAQ T K E QADFAIEALAKATY
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Q8VDD5	517	IDFGLDLQPCIDLIE K PAGPPGILALLDEEC
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B7FAU9	626	FSVEGPSQAKIECDD K GDGSCDVRYWPQEAG
B7FAU9	837	IDFDIIRNDNDTFT V KYTPCGAGSYTIMVLF
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O54734	213	DILTGSSTSYSFFPD	K	PITQYPHAVGRNTLL
O54734	354	QLEFVRIDPFVRTFL	K	RKGGKYSVQFKLPDV
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E9PWU7	231	VKYVIKTVEVESSKT	K	QALSESQTRNQHLQE
E9PWU7	419	LKGNIRVIARVRPVT	K	EDGE GPEATNAVTFD
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E9PWU7	676	AALRSRQGHVPFRNS	K	LTYLLQDSLSGDSKT
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Q5SXR6	282	AMQISEKHDVVFLIT	K	YGYIHLYDLETGTCTI
Q5SXR6	504	PNKVIQCFAETGQVQ	K	IVLYAKKVGYPDWI
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 B1AXN3 137 FGNPEAVTNAENEIF**K**WCQKQYLPLTLISKQ
 B1AXN3 164 ISKQEHCFFLNQTGN**K**SQDLEQEGQINTQIT
 B1AXN3 197 HNQNNSINSVDVNQT**K**MKSSDGSLSARSN
 B1AXN3 384 GTKGEEISEITECV**P**KVQIHFTAKDKITLKG
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 B1AXN3 537 KKFPDVILNFPHPAE**K**SDIVQLIGPRYESEK
 B1AXN3 672 NPKECLLSIIIEECG**I**HLHFPKGKSNLNKI
 B1AXN3 724 EEQAKNYSETLHIKS**K**YHQFLLNKNGGNISK
 B1AXN3 913 DIEKPALNMDLGTHE**K**GKEKWKRTAKEIAPN
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 P29341 80 AERALDTMNF DVI**K**GPVRIMWSQRDPSLRK

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Q8BMD8	334	TGQYSGIYGCAKKIL K HEGFGAFYKGYIPNL
Q9ERG0	21	FNRRQWTSLSLRVT A KELSLVNKNKSSAIVE
Q9ERG0	210	NRLKMMFEKGEHNQ T KSLWTQSRNAGGRRLS
Q9ERG0	347	ALSVPAEDDTCNSQV K SEAQQPMHPKPLSPD
Q9ERG0	378	ARTSSLPESPST A KKFQAPAKESCVVECQK
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E9PYH2	53	FWAAMRAVRTRADH Q KLGHCVTMGRIMRPDD
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Q80VN4	251	RIHTGEKPYKCEECG K AFHISSFLSKHKIIH
Q80VN4	270	ISSFLSKHKIIHRGE K PYKCEVCGKAFHYP
Q80VN4	499	SKHKRIHTGEKPYK C ECGKAFRFPSSLSAH
Q80VN4	566	PYKCDICDQAFHVPS K LSHHKIIHTGEKPYK
Q80VN4	605	HYSSLLSKHKIIHTG K KPYKCEVCDKAFHYP
Q80VN4	628	CDKAFHYPSRLFSHT K MHTGEKPYKCEVCGK
Q80VN4	715	FFVYPSRLPKHKKIY K REKPYNCDEVCGKAFD
D3YW87	159	ISMPMWEDEDEDAR K QTPKQRLLGWIQNKV
D3YW87	1368	RVRAFGPGLEGGLVN K ANRFTVETRGAGTGG
D3YW87	2163	RSSHTYTRTERTEIS K TRGGETKREVRVEES
D3YW87	2515	NAGSGALSVTIDGPS K VQLDCRECPEGHVVT
D3YW87	2630	QAFVGQKNSFTVDCS K AGMFHPRGLSWGGIN
J3QK72	8	KPSESMSMSKSESP K EPEQLRKLFIGGLSF
J3QK72	166	VTDDHDSVDKIVIQ K YHTVNGHNCEVRKAL
Q7TPV4	42	LEHSREFLDFFWDIA K PDQETRLRATEKLLE
Q7TPV4	366	STYVGTFLEGCDQDDP K RQLTMMVAFTTITNQ
Q7TPV4	606	IAFQHLLLLVLGLHIF K SPAESCDVLGDIQTC
Q7TPV4	712	EDEDDNVVVTDDADE K QLQHGEDESDNEDN
Q7TPV4	728	QLQHGEDESDNEDN K NSESDMDESDGEESE
Q7TPV4	1153	QAMRMLGVQRPKSEK K NAKDIPSDTQSPVST
A2AMW0	156	VVEVQEKSSGRTAHY K LTSTVMLWLQTNKSG
Q9D8N0	173	TLADITVVCTLLWLY K QVLEPSFRQAFPNTN
Q9D8N0	316	DTLSVALPYFWEHFD K DGWSLWYAEYRFPEE
P61161	106	YTFGPEKLNIDTRNC K ILLTEPPMNPTKNRE
P61161	219	FNHSADFETVRMIKE K LCYVGYNIEQEQLA
P41731	117	IAGYVFRDQVKSEFN K SFQQQMQLKDNKT
Q8BP67	60	NPRQINWTVLYRRKH K KGQSEEIQKKRTRA
B7ZCT3	127	DKTKPLWHNYFLCGF K GIEHFGLSKLPGMN
O35691	156	NRRIFGLLMGTLO K QESTVATERQKRRQE
O35691	227	VELAQLOEEWNEHNA K IIKYIRTKTKPHLFY
O35691	436	SKELEPEMEFDVEPD K ECKSLSPGKENINSQ
O35691	439	LEPEMEFDVEPDKE K SLSPGKENINSQEVE
O35691	661	RGHNRDRKHRRSMDR K RRDTSGLERSHKSSK
G3UZJ6	18	VHLPQGVDIRHNKDR K VRRKEPKSQDIYLRL
G3UZJ6	36	RKEPKSQDIYLRL K LYRFLARRTNSTFNQ
Q922H2	230	APELEVEEFNAKAPN K PIQVVYVPSHLFHML
Q922H2	374	KALSSESFERLPVFN K SAWRHYKTTPEADDW
Q922H2	381	FERLPVFNKSAWRHY K TTPEADDWSNPSSP
Q5SQB0	27	LRPQNYLFGCELKAD K DYHFKVDNDENEHQL
O08553	398	VTSTNAAKVFNLPR K GRISVGSDADLVIWD
Q9D0D3	145	GTHPTQSTEAAPF K SRFLNLRKLNPSQV

Q9D0D3	263	DMFLDLDETGKLDVH K NTGNFFMEFQVKNVP
Q9D0D3	458	LIKEFFEYFGNFAFN K NSINIRQGREQNKPD
D3YZY0	69	YVGDEAQSKRGILTL K YPIEHGIITNWDDME
P09041	97	ADELKSLLNKDVIFL K DCVGPEVEQACANPD
Q60598	70	IHKLRENVFQEHQTL K EKELETGPKASHGYG
P40142	144	LGAACGMAYTGKYFD K ASYRVYCMLGDGEVS
P40142	204	QSDPAPLQHQVDIYQ K RCEAFGWHTIIVDGH
P40142	497	SNNEDFQVGQAKVVL K SKDDQVTVIGAGVTL
P63276	103	VSALDQEIIIEVDPDT K EMLKLLDFGSLSNLQ
A2A9Q2	102	EEGRSFSNVGDPEII K SPSDPKQYRYIKLQN
A2A9Q2	240	NLFLWLSKLTDRLWF K SSYSKMSSTLLVETR
A2A9Q2	435	GKFFWGNAETLKHEP K KNNIDTHARLREFWM
A2A9Q2	613	YEVAHTVFQYLKMLQ K LGPEKRVFEEIQKIE
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A2A9Q2	773	YPAKIVNTAQGCLWY K KDNKFKIPKAYIRFH
A2A9Q2	782	QGCLWYKKDNKFKIP K AYIRFHLISPLIQKS
A2A9Q2	796	PKAYIRFHLISPLIQ K SAANVVLFDIFVNIL
D3YU75	130	LDYREDGVTPFMIFF K DGLEMEKCKEMELGD
Q14C51	267	EKNARSYCTMIRGMV K HRAYAQALNVYTELL
Q14C51	320	NEKFEEKWNDILDLL K HMVAQKVKNLQTFN
Q14C51	339	AQKVKNLQTFNTIL K GLRKCYSLGRIPALQ
Q14C51	517	VANRLELVPQIWKDS K EYSHTFRDALREEVL
Q9D964	297	RRHLAPDYRVHIIISF K DPNPMHIDATFNIIG
P18155	143	GLLVQLPLPEHIDER K VCNVSPDKDVDGFH
P18155	300	AKPKLVGDVDFEGVK K KAGYITPVPGGVGPM
Q3UHH1	46	ISEAESLCQNRGWR K QSAGPNSPTGGGGGG
Q3UHH1	147	DEFQRGDQLFRMRAV K DPLQIGFHLSATVVP
Q3UHH1	359	PEGVWNLLSIVREMF K RRDSNAAPLLEILTD
Q3UHH1	805	TVELAQDLLANPPDL K VEPPPAKGKKNKVST
E9Q3P9	61	VEFATRSIQVDGKTI K AQIWDTAGQERYRAI
P57780	141	KLVSIGAEIIVDGNAM K MTLGMIWTIILRFAI
P57780	605	AIHKEAQRIAESNH K LSGSNPYTTVTPQII
P57780	623	GSNPYTTVTPQII K NSWEKVQQLVPKRDHAL
Q8BP47	396	VASIVYELNPNFKPP K RPFRRMNYSDAIEWL
Q8BP47	456	TINEPILLCRFPVEI K SFYMQRCPEDPRLTE
D3YYM6	63	YLPHSAGRYAAKRFR K AQCPIVERLTNSMMM
B0V2N5	12	KEKIIKEKEKQLLFS K ACRFCPCPPGCCFLW
B0V2N5	46	APPQSVAGPKFGFGP K ISNAVQGLGTDEDSL
B0V2N5	219	ADRLYDSMKGKGTRD K VLIRIMVSRSEVDML
B0V2N5	262	SLYYYIQQDTKGDYQ K ALLYLCGGDDDDGGCL
P47962	8	KVVKVFGMMGFVKVV K NKAYFKRYQVRFRRR
P47962	10	VKVFGMMGFVKVV K NKAYFKRYQVRFRRRRE
P47962	41	GKTDYYARKRLVIQD K NKYNTPKYRMIVRVT
F8WIR1	251	EGQPGGELMLGGTDS K YYHGELSYLNVTRKA

