

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	IEGDGIGVDVTPAML K VVDAAVEKAYKGERK
B1XA46	55	DVTPAMLKVVDAAVE K AYKGERKISWMEIYT
B1XA46	58	PAMLKVVDAAVEKAY K GERKISWMEIYTGEK
B1XA46	62	KVVDAAVEKAYKGER K ISWMEIYTGEKSTQV
B1XA46	73	KGERKISWMEIYTGE K STQVYGQDVWLPAET
B1XA46	142	CLRPVRRYYQGTSPSV K HPELTDMMVIFRENSE
B1XA46	166	IFRENSEDIYAGIEW K ADSADA EKVIKFLRE
B1XA46	174	IYAGIEWKADSADA EK VIKFLREEMGVKKIR
B1XA46	177	GIEWKADSADA EK VIKFLREEMGVKKIRFPE
B1XA46	186	DAEKVIKFLREEMGV K KIRFPEHCGIGIKPC
B1XA46	187	AEKVIKFLREEMGV K KIRFPEHCGIGIKPCS
B1XA46	199	GVKKIRFPEHCGIGI K PCSEEGTKRLVRAAI
B1XA46	207	EHCIGIGIKPCSEEGT K RLVRAAIEYAIANDR
B1XA46	230	EYAIANDRDSVTLVH K GNIMKFTEGAFKDWG
B1XA46	235	NDRDSVTLVHKGNIM K FTEGAFKDWGYQLAR
B1XA46	265	REEFGGELIDGGPWL K VKNPNTGKEIVIKDV
B1XA46	267	EFGGELIDGGPWLKV K NPNTGKEIVIKDVIA
B1XA46	273	IDGGPWLKVKNPNTG K EIVIKDVIADAFLLQ
B1XA46	278	WLKVKNPNTGKEIVI K DVIADAFLLQIILLRP
B1XA46	344	GDECALFEATHGTAP K YAGQDKVNPGSIILS
B1XA46	350	FEATHGTAPKYAGQD K VNPGSIILSAEMMLR
B1XA46	378	MLRHMGWTEAADLIV K GMEGAINAKTVTYDF
B1XA46	387	AADLIVKGMEGAINA K TVTYDFERLMEGAKL
B1XA46	401	AKTVTYDFERLMEGAK L LLKCSEFGGEAIIENM
B1XA46	404	VTYDFERLMEGAK L LLKCSEFGGEAIIENMNEI
B1XB26	3	ADYDAINMERKLMML K REMNIADYDAELWQA
B1XB26	23	IADYDAELWQAMEQ EK VRQEEHIELIASENY
B1XB26	54	TSPRVMQAQGSQ L TN K YAEGYPGKRYGGCE
B1XB26	83	CEYVDIVEQLAIDRA K ELFGADYANVQPHSG

B1XB26 138 HGGHLTHGSPVNFSG**K**LYNIVPYGIDATGHI
 B1XB26 166 GHIDYADLEKQAKEH**K**PKMIIGGFSAYSGVV
 B1XB26 168 IDYADLEKQAKEHK**P**KMIIGGFSAYSGVVDW
 B1XB26 185 IIGGFSAYSGVVDWA**K**MREIADSIGAYLFVD
 B1XB26 229 PNPVPHAHVVTTH**K**TLAGPRGGLILAKGG
 B1XB26 251 GGLILAKGGSEELY**K**LN SAVFPGGQGGPLM
 B1XB26 272 FPGGQGGPLMHVIAG**K** AVALKEAMEPEFKTY
 B1XB26 285 AGKAVALKEAMEPEF**K**TYQQQVAKNAKAMVE
 B1XB26 296 EPEFKTYQQQVAKNA**K**AMVEVFLERGYKVV
 B1XB26 308 KNAKAMVEVFLERGY**K**VVSSGGTDNHLFLVDL
 B1XB26 326 SGGTDNHLFLVDLVD**K**NLTGKEADAALGRAN
 B1XB26 375 SGIRVGTPAITRRGF**K**EAEAKELAGWMCDVL
 B1XB26 380 GTPAITRRGFKEAE**A**KELAGWMCDVLD SIND
 B1XB26 403 DVLD SINDEAVIERI**K**GKVLDICARYPVYAY
 B1XB26 405 LDSINDEAVIERI**K**GVLDICARYPVYAYVP
 B1XGN9 23 NGFGRIGRIVFRAA**Q**KRS DIEIVAINDLLDA
 B1XGN9 46 AINDLLDADY MAYML**K**YDSTHGRFDGTVEVK
 B1XGN9 61 KYDSTHGRFDGTVEV**K**DGHLIVNGKKIRVTA
 B1XGN9 70 DGTVEVKDGHLIVNG**K**KIRVTAERDPANLKW
 B1XGN9 71 GTVEVKDGHLIVNG**K**KIRVTAERDPANLKWD
 B1XGN9 84 GKKIRVTAERDPANL**K**WDEVGVDVVAEATGL
 B1XGN9 108 VAEATGLFLTDETAR**K**HITAGAKKVMTGPS
 B1XGN9 116 LTDETARKHITAGAK**K**VVMTGPSKDNTPMFV
 B1XGN9 269 EQIKA AVKAAAEGEM**K**GVLYTEDDVVSTDF
 B1XGN9 296 STDFNGEVCTSVFDA**K**AGIALNDNFVKLVSW
 B1XGN9 307 VFDAKAGIALNDNFV**K**LVSWYDNETGYSNKV
 B1XGN9 321 VKLVSWYDNETGYSN**K**VLDLIAHISKSIHAI
 B1XEK8 20 FDFVKPGVITGDDV**Q**KVFQVAKENNFALPAV
 B1XEK8 26 GVITGDDVQKVFQV**A**KENNFALPAVNCVGTD
 B1XEK8 52 CVGTDSINAVLETA**A**KVPVIVQFSNGGAS
 B1XEK8 54 GTDSINAVLETA**A**KVPVIVQFSNGGASFI
 B1XEK8 75 QFSNGGASFIAGKGV**K**SDVPQGAAILGAISG
 B1XEK8 114 EHYGVPVILHTDHCA**K**KLLPWIDGLLDAGEK
 B1XEK8 129 KKLLPWIDGLLDAGE**K**HFAATGKPLFSSHMI
 B1XEK8 136 DGLLDAGEKHFAATG**K**PLFSSHMIDLSEESL
 B1XEK8 160 DLSEESLQENIEICS**K**YLERMSKIGMTLEIE
 B1XEK8 167 QENIEICSKYLERMS**K**IGMTLEIELGCTGGE
 B1XEK8 212 YTQPEDVDYAYTELS**K**ISPRFTIAASFVNVH
 B1XEK8 252 LTPTILRDSQEYVSK**K**HNLPHNSLNFVFHGG
 B1XEK8 276 NFVFHGGSGSTAQE**I**KDSVSYGVVKMNIDTD
 B1XEK8 285 STAQEIKDSVSYGV**V**KMNIDTDTQWATWEGV
 B1XEK8 305 TDTQWATWEGVLNYY**K**ANEAYLQGQLGNPKG
 B1XEK8 327 QGQLGNPKGEDQPN**K**YYDPRVWLRAGQTS
 B1XBY2 5 PKTREFKEKSMMSKE**K**FERTKPHVNVGTIGH

B1XBY2 10 FKEKSMSSEKEKFERT**K**PHVNVGTIGHVDHGK
 B1XBY2 25 KPHVNVGTIGHVDHG**K**TTLTAAITTVLAKTY
 B1XBY2 57 GAARAFDQIDNAPEE**K**ARGITINTSHVEYDT
 B1XBY2 137 LGRQVGVPYIIIVFLN**K**CDMVDDEELLELVEM
 B1XBY2 209 GFLDSYIPEPERAID**K**PFLLPIDVFSISGR
 B1XBY2 238 GRGTVVTGRVERGII**K**VGEEVEIVGIKETQK
 B1XBY2 264 KETQKSTCTGVEMFR**K**LLDEGRAGENVGVLL
 B1XBY2 283 EGRAGENVGVLLRGI**K**REEIERGQVLAKPGT
 B1XBY2 300 EEIERGQVLAKPGTI**K**PHTKFESEVYILSKD
 B1XBY2 304 RGQVLAKPGTIKPH**T**KFESEVYILSKDEGGR
 B1XBY2 325 YILSKDEGGRHTPFF**K**GYRPQFYFRTTDVTG
 B1XBY2 358 ELPEGVEMVMPGDNI**K**MVVTLIHPIAMDDGL
 B1XBY2 391 AIREGGRTVGAGVVA**K**VLSLVKAVVGAGVTR
 B1X843 7 ALKENLESMMSELNE**K**LATAWEGFTKGDWQN
 B1X843 17 SELNEKLATAWEGFT**K**GDWQNEVNVRDFIQK
 B1X843 32 KGDWQNEVNVRDFIQ**K**NYTPYEGDESFLAGA
 B1X843 57 SFLAGATEATTTLWD**K**VMEGVKLENRTHAPV
 B1X843 96 TITSHDAGYINKQLE**K**IVGLQTEAPLKRALI
 B1X843 135 EGSCKAYNRELDPMI**K**KIFTEYRKTHNQGVF
 B1X843 136 GSCKAYNRELDPMI**K**KIFTEYRKTHNQGVFD
 B1X843 143 RELDPMIKKIFTEYR**K**THNQGVFDVYTPDIL
 B1X843 162 QGVFDVYTPDILRCR**K**SGVLTGLPDAYGRGR
 B1X843 197 YRRVALYGIDYLMKD**K**LAQFTSLQADLENGV
 B1X843 235 LREEIAEQHRALGQM**K**EMAAKYGYDISGPAT
 B1X843 240 AEQHRALGQMKEMAA**K**YGYDISGPATNAQEA
 B1X843 268 QEAIQWTFYGYLAAV**K**SQNGAAMSFGRTSTF
 B1X843 296 STFLDVYIERDLKAG**K**ITEQEAQEMVDHLVM
 B1X843 312 ITEQEAQEMVDHLVM**K**LRMVRFLRTPEYDEL
 B1X843 352 ESIGGMGLDGRTLVT**K**NSFRFLNTLYTMGPS
 B1X843 379 MGPSPEPNMTILWSE**K**LPLNFKKFAAKVSID
 B1X843 385 PNMTILWSEKLPLNF**K**KFAAKVSIDTSSLQY
 B1X843 386 NMTILWSEKLPLNF**K**KFAAKVSIDTSSLQYE
 B1X843 428 DDYAIACCVSPMIVG**K**QMQFFGARANLAKTM
 B1X843 456 KTMLYAINGGVDEKL**K**MQVGPKEPIKGDVL
 B1X843 462 INGGVDEKLKMQVGP**K**SEPIKGDVLNYDEV
 B1X843 489 DEVMERMDHFMDWLA**K**QYITALNIIHYMHDK
 B1X843 544 GLSVAADSLSAIKYA**K**VKPIRDEDGLAIDFE
 B1X843 546 SVAADSLSAIKYA**K**VPIRDEDGLAIDFEIE
 B1X843 587 PRVDDLAVDLVERFM**K**KIQKLHTYRDAIPTQ
 B1X843 588 RVDDLAVDLVERFM**K**KIQKLHTYRDAIPTQS
 B1X843 591 DLAVDLVERFMKKI**K**QLHTYRDAIPTQSVLT
 B1X843 615 PTQSVLTITSNVVYG**K**KTGNTPDGRRAGAPF
 B1X843 616 TQSVLTITSNVVYG**K**KTGNTPDGRRAGAPFG
 B1X843 643 APFGPGANPMHGRDQ**K**GAVASLTSVAKLPFA

B1X843 661 VASLTSVAKLPFAYA**K**DGISYTF SIVPNALG
 B1X843 677 DGISYTF SIVPNALG**K**DDEV RKTNLAGLMDG
 B1X843 683 FSIVPNALGKDDEV R**K**TNLAGLMDGYFHHEA
 B1X843 725 VMNREMLLDAMENPE**K**YPQLTIRVSGYAVRF
 B1X843 745 TIRVSGYAVRFNSLT**K**EQQQDVITRTFTQSM
 B1XBY6 6 VRMRKTLKAMMAKLT**K**RMRVIREKVDATKQY
 B1XBY6 19 LTKRMRVIREKVDAT**K**QYDINEAIALLKELA
 B1XBY6 37 DINEAIALLKELATA**K**FVESVDVAVNLGIDA
 B1XBY6 54 VESVDVAVNLGIDAR**K**SDQNVRGATVLP HGT
 B1XBY6 88 VRVAVFTQGANAEEA**K**AAGAE LVGMEDLADQ
 B1XBY6 106 GAELVGMEDLADQ**I**K**K**GEMNFDVVIASPDAM
 B1XBY6 141 QLGQVLGPRGLMPNP**K**VGT VTPNVAEAVKNA
 B1XBY6 157 VGT VTPNVAEAVKNA**K**AGQVRYRNDKNGIIH
 B1XBY6 167 AVKNAKAGQVRYRND**K**NGIIHTTIGKVDFDA
 B1XBY6 177 RYRNDKNGIIHTTIG**K**VDFDADKLKENLEAL
 B1XBY6 184 GIIHTTIGKVDFDAD**K**LKENLEALLVALKKA
 B1XBY6 198 DKLKENLEALLVALK**K**AKPTQAKGVYIKKVS
 B1XBY6 200 LKENLEALLVALKKA**K**PTQAKGVYIKKVSIS
 B1XBY6 205 EALLVALKKAKPTQ**A**KGVYIKKVSISTTMGA
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 B1XBD9 92 FQDEEVQRDVSIMPF**K**IIAADNGDAWVEVKG
 B1XBD9 106 FKIIAADNGDAWVEV**K**GQKMAPPQISAEVLK
 B1XBD9 109 IAADNGDAWVEVKGQ**K**MAPPQISAEVLKKMK
 B1XBD9 121 KGQKMAPPQISAEVL**K**KMKKTAEDYLGE PVT
 B1XBD9 122 GQKMAPPQISAEVL**K**KMKKTAEDYLGE PVTE
 B1XBD9 124 KMAPPQISAEVLKK**M**KTAEDYLGE PVTEAV
 B1XBD9 125 MAPPQISAEVLKK**M**KTAEDYLGE PVTEAVI
 B1XBD9 155 ITVPAYFNDAQRQAT**K**DAGRIAGLEV KRIIN
 B1XBD9 166 RQATKDAGRIAGLEV**K**RIINEPTAAALAYGL
 B1XBD9 263 QGIDLRNDPLAMQRL**K**EAAEKAKIELSSAQQ
 B1XBD9 268 RNDPLAMQRLKEAAE**K**AKIELSSAQQTDVNL
 B1XBD9 270 DPLAMQRLKEAAEK**A**KIELSSAQQTDVNL PY
 B1XBD9 294 TDVNL PYITADATGP**K**HMNIVTRAKLES LV
 B1XBD9 299 PYITADATGPKHMNI**K**VTRAKLES LVEDLVN
 B1XBD9 351 DVILVGGQTRMPMVQ**K**KVAEFFGKEPRKDVN
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 B1XBD9 414 LGIETMGGVMTTLIA**K**NTTIPTKHSQVFSTA
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 B1XBD9 491 FDIDADGILHVS AKD**K**NSGKEQKITIKASSG

B1XBD9 498 ILHVSADKNSGKEQKITIKASSGLNEDEIQ
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 B1XBD9 548 VQTRNQGDHLLHSTRKQVEEAGDKLPADDKT
 B1XBD9 556 HLLHSTRKQVEEAGDKLPADDKTAIESALTA
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 B1XDP7 7 GFKVDKAAMMAAKDVKFGNDARVKMLRGVNV
 B1XDP7 28 RVKMLRGVNVVLADAVKVTLGPKGRNVVLDKS
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 B1XDP7 65 TKDGVSVAEIELEDKFENMGAQMVKEVASK
 B1XDP7 80 KFENMGAQMVKEVASKANDAAGDGTTTATVL
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 B1XDP7 142 AVEELKALSVPSCSDSKAIAQVGTISANSDET
 B1XDP7 160 AQVGTISANSDETVGKLIAEAMDKVGKEGVI
 B1XDP7 168 NSDETVGKLIAEAMDKVGKEGVITVEDGTGL
 B1XDP7 171 ETVGKLIAEAMDKVGKEGVITVEDGTGLQDE
 B1XDP7 207 GMQFDRGYLSPYFINKPETGAVELESPFILL
 B1XDP7 225 TGAVELESPFILLADKKISNIREMLPVLEAV
 B1XDP7 272 EALATLVVNTMRGIVKVAAVKAPGFGDRRKA
 B1XDP7 286 VKVAAVKAPGFGDRRKAMLQDIATLTGGTVI
 B1XDP7 311 TGGTVISEEIGMELEKATLEDLGQAKRVVIN
 B1XDP7 327 ATLEDLGQAKRVVINKDTTTIIDGVGEEAAI
 B1XDP7 364 IRQQIEEATSDYDREKLQERVAKLAGGVAVI
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 B1XBY5 40 GPALGQQGVNIMEFCKAFNAKTDSIEKGLPI
 B1XBY5 45 QQGVNIMEFCKAFNAKTDSIEKGLPIPVVIT
 B1XBY5 51 MEFCKAFNAKTDSIEKGLPIPVVITVYADRS
 B1XBY5 82 FTFVTKTPPAVLLKKAAGIKSGSGKPNKDK
 B1XBY5 95 LKKAAGIKSGSGKPNKDKVGKISRQLQEIA
 B1XBY5 97 KAAGIKSGSGKPNKDKVGKISRQLQEIAQT
 B1XBY5 100 GIKSGSGKPNKDKVGKISRQLQEIAQTKAA
 B1XBY5 113 VGKISRQLQEIAQTKAADMTGADIEAMTRS
 B1X6H1 7 VKKGVLGIMMIGLVGKKVGMTRIFTEDGVSI
 B1X6H1 55 LANDGYRAIQVTTGAKKANRVTKPEAGHFAK
 B1X6H1 56 ANDGYRAIQVTTGAKKANRVTKPEAGHFAKA
 B1X6H1 62 AIQVTTGAKKANRVTKPEAGHFAKAGVEAGR
 B1X6H1 105 FTVGQSISVELFADVKKVDVTGTSGKGFAG
 B1X6H1 114 ELFADVKKVDVTGTSGKGFAGTVKRWNFRT
 B1X6H1 116 FADVKKVDVTGTSGKGFAGTVKRWNFRTQD

B1X6H1	123	DVTGTSKGGKFAGTV	K	RWNFRTQDATHGNSL
B1X6H1	154	SHRVPGSIGQNQTPG	K	VFKGKKMAGQMGNER
B1X6H1	157	VPGSIGQNQTPGKV	F	KGKKMAGQMGNERVTV
B1X6H1	159	GSIGQNQTPGKV	F	KKMAGQMGNERVTVQS
B1X6H1	160	SIGQNQTPGKV	F	KKMAGQMGNERVTVQSL
B1X6H1	190	LDVVRVDAERNLLL	V	KGAVPGATGSDLIVKP
B1XD38	11	SVTAMMATVSMRDML	K	AGVHFGHQTRYWNP
B1XD38	26	KAGVHFGHQTRYWNP	K	MPFIIFGARNKVHII
B1XD38	28	GVHFGHQTRYWNP	K	MPFIIFGARNKVHII
B1XD38	37	YWNPKMPFIIFGARN	K	VHIIINLEKTVPMFNE
B1XD38	45	FIFGARNKVHIIINLE	K	TVPMFNEALAELNKI
B1XD38	64	MFNEALAELNKIASR	K	GKILFVGTKRAASEA
B1XD38	66	NEALAELNKIASR	K	GKILFVGTKRAASEAVK
B1XD38	73	NKIASRKGKILFVG	T	KRAASEAVKDAALSCD
B1XD38	81	KILFVGTKRAASEAV	K	DAALSCDQFFVNH
B1XD38	105	FFVNHRLGGM	L	TNWKTVRQSIKRLKDLETQ
B1XD38	112	LGGMLTNWKT	V	RQSIKRLKDLETQSQDGT
B1XD38	128	RLKDLETQSQDGT	F	DKLTKEALMRTRELEK
B1XD38	131	DLETQSQDGT	F	DKLTKEALMRTRELEK
B1XD38	132	LETQSQDGT	F	DKLTKEALMRTRELEK
B1XD38	143	KLTKKEALMRTRELE	K	LENLGGIKDMGGLP
B1XD38	152	RTRELEKLENLGGI	K	DMGGLPDALFVIDAD
B1XD38	174	DALFVIDADHEHIAI	K	EANNLGIPVFAIVDT
B1XDP6	13	INMMNIRPLHDRVIV	K	RKEVETKSAGGIVLT
B1XDP6	15	MMNIRPLHDRVIV	K	RKEVETKSAGGIVLTGS
B1XDP6	55	VLAVGNRILENGEV	K	PLDVKVGDIVIFNDG
B1XDP6	77	GDIVIFNDGYGV	K	SEKIDNEEVLIMSESDIL
B1XDV3	8	KDLLIVQMMQVILL	D	KVANLGSLGDQVNVKA
B1XDV3	22	DKVANLGSLGDQVNV	K	AGYARNFLVPQGKAV
B1XDV3	41	ARNFLVPQGKAV	P	ATKKNIEFFEARRAELEA
B1XDV3	89	ALETVTIASKAGDE	G	KLFGSIGTRDIADAVT
B1XDV3	141	GEHEVSFQVHSEV	F	AKVIVNVVAEAVVNVIV
P68432	24	RKSTGGKAPRKQLAT	K	AARKSAPATGGVKKP
P68432	37	ATKAARKSAPATGGV	K	KPHRYRPGTVALREI
P68432	38	TKAARKSAPATGGV	K	KPHRYRPGTVALREIR
P68432	57	YRPGTVALREIRRY	Q	KSTELLIRKLPFQRLV
P68432	65	REIRRYQKSTELLIR	K	LPFQRLVREIAQDFK
P68432	80	KLPFQRLVREIAQD	F	KTDLRFQSSAVMALQE
P68432	123	TNLCAIHAKRVTIMP	K	DIQLARRIRGERARE
P00366	98	DKLVEDLKTRETEE	Q	KRNRVRSILRIIKPCN
P00366	147	IEGYRAQHSQHRT	P	CKGGIRYSTDVSVD
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
 P00366 326 NVGLHSMRYLHRFGA**K**CITVGESDGSIWNP
 P00366 346 GESDGSIWNPDGIDP**K**ELEDFKLQHGTLGF
 P00366 352 IWNPDGIDPKELEDF**K**LQHGTLGFPKAKIY
 P00366 365 DFKLQHGTLGFPKA**K**IYEGSILEVDCDILI
 P00366 386 ILEVDCDILIPAASE**K**QLTKSNAPRVKAKII
 P00366 390 DCDILIPAASE**K**QLTKSNAPRVKAKIIAEGA
 P00366 399 SEKQLTKSNAPRVKA**K**IIAEGANGPTTPEAD
 P00366 477 SNYHLLMSVQESLER**K**FGKHGGTIPIVPTAE
 P00366 480 HLLMSVQESLER**K**FGKHGGTIPIVPTAEFQD
 P00346 26 AALRRSFSTXQNN**K**VAVLGASGGIGQPLS
 P00346 45 LGASGGIGQPLSL**L**L**K**NSPLVSRLTYDIAH
 P00346 78 GVAADLSHIETRA**T**V**K**GYLGPQLPDCLKGC
 P00346 165 ITAEVFKKHGVYN**P**N**K**IFGVTTLDIVRANAF
 P00346 203 DPARVSVPVIGGHAG**K**TIIP**L**ISQCTPKVDF
 P00346 269 AGARFVFS**L**VDAMNG**K**EGVVECSFVKSQETD
 P00346 279 DAMNGKEGVVECSF**V****K**SQETDCPYFSTPLLL
 P00346 296 QETDCPYFSTPL**L**L**G****K**KGIEKNLGIGKISPF
 P00346 314 IEKNLGIGKISPF**E**E**K**MIAEAIPELKASIKK
 P00346 324 SPFEEKMIAEAIPE**L****K**ASIKKGEEFVKNMKM
 P00346 338 LKASIKKGEEFVK**N**M**K**MNKVFEEGKKISAKL
 P00889 14 AMMALLTAAAR**L**FGA**K**NASCLVLAARHASAS
 P00889 34 LVLAARHASASST**N**L**K**DILADLIPKEQARIK
 P00889 43 ASSTNLKDILADLIP**K**EQARIKTFRQQHGNT
 P00889 49 KDILADLIPKEQAR**I****K**TFRQQHGNTVVGQIT
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 P00889 107 RFRGYSI**P**ECQ**K**MLP**K**AKGGEEPLPEGLFWL
 P00889 139 VTGQIPTEEQVSW**L**S**K**EWA**K**RAALPSHVVTM
 P00889 143 IPTEEQVSWLSKEWA**K**RAALPSHVVTMLDNF
 P00889 193 ESNFARAYAEGIH**R**T**K**YWELIYEDCMDLIAK
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P52825	458	IDAIQFQRGGKEFL K KKLSPDAVAQLAFQM
P97450	79	GPEYQQDLRELYKL K QMYGKGEMDTFPTFK
P53395	46	VLKPKCVCSVGYP L F K YSQPRHSLRTAAVLQ
P53395	68	SLRTAAVLQGGV V Q F KLSDIGEGIREVTIKE
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P53395	427	VILPPEVAIGALGAI K ALPRFDQGDVYKAQ
P53395	468	RVIDGATMSRFSNLW K SYLENPAFMLLDLKL
P27773	82	YEAAATRLKGIVPLA K VDCANTNTCNKYGV
P27773	94	PLAKVDCTANTNTCN K YGVSGYPTLKIFRDG
P27773	147	AGPASVPLRTEEE F K FISDKDASVVGFFRD
P27773	233	KTVAYTEKKMTSGKI K KFIQDSIFGLCPHMT
P27773	252	QDSIFGLCPHMTEDN K DLIQGDLLTAYYDV
P27773	271	QGKDLLTAYYDV D YE K NAKGSNYWRNRVMMV
P27773	335	TGEVPVVAIRTAKGE K FVMQEEFSRDGKALE
P27773	379	YLKSEPIPESNEGPV K VVVAENFDDIVNEED
P27773	461	EVKGFTIYFSPANK K LTPKKYEGGRELNDF
A2AIW9	157	QTSRDTTMYAVSADS K GLDTVVDLLADVVLH
A7M7Q8	7	KEKLVGARMMRAGVL K EKPLWYDIYKAFPPL
A7M7Q8	36	PLREPVFRRPRLRY G K AKADIQDIFYQEDQI
A7M7Q8	74	YGSQKAFDLFNP N K STCQRFVEKYTELQN
G3UYJ7	21	LDLMSQPCRAVYIFA K KNGIPFQLRTIELLK
G3UYJ7	22	DLMSQPCRAVYIFA K KNGIPFQLRTIELLK

G3UYJ7	36	KKNGIPFQLRTIELL K GQQYTDSFAQVNPLR
G3UYJ7	78	LAESVAILLYLSRKY K APDHWYPQDLQTRAR
G3UYJ7	191	RVSVTIRPGMTLLMN K STEPCAHLLVSSIGV
Q9CPU0	40	PSTKDFLLQQTMLRI K DPKKSLEDFYTRVLGL
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Q9CPU0	78	FPAMKFSLYFLAYED K NDIPKDKSEKTAWTF
Q9CPU0	96	IPKDKSEKTAWTF S R K ATLELTHNWGTEDDE
Q9CPU0	179	IQDPDGYWIEILNPN K IATIIITAIKNPNLI
O35423	256	LISFNDKAKYKVYSR K TKPVSFYTDITYLAK
O35423	271	KTKPVSFYTDITYLAK L WGCEGETRVIHHTT
B2RS91	215	WFLMPILVEKFPPFVR K SERTLECYVHNLLRI
B2RS91	337	YIEDVCRVHGKIDNN K TKDLYRDLISIFDKL
B2RS91	339	EDVCRVHGKIDNN K T K DLYRDLISIFDKLLL
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B2RS91	443	VNWLHMYLTNQDSGT K AFCDVALHGPFYSAC
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Q9Z2I8	47	HLTPRRWLN L QEYQS K KLMSEHGVRVQRFFV
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Q9Z2I8	280	DNAEFRQKDI F AMDD K SENEPIE N EAAARYDL
Q9Z2I8	296	SENEPIE N EAAARYDL K YIGLDGNIACFVNGA
Q8JZN5	80	QHELSEINQFVGPLE K FFTEEVD S RKIDQEG
Q8JZN5	245	FAKTEVVDS D SGSKTD K MTAFIVERDFGGITN
Q8JZN5	334	LKKLIELTA E YACTR K QFN R NLSEFGLIQEK
Q8JZN5	349	KQFN R NLSEFGLIQEK F ALMAQKAYVMESMA
Q8JZN5	457	LTGLQHAGRILTSRI K ELKSGNVTTVMETIG
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P11725	210	GDGNNILHSIMMSAA K FGMHLQAATPKGYEP
P11725	331	FYSPRSLVFPEAENR K WTIMAVMVSL L TDYS
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Q9DC69	278	FAFTGPNRYLLFHLV K YIFGMTHRTFIPYPL
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Q9DC69	370	RHRTYRWLSSEIEET K PAKTVN N VTKAPKT
Q91V64	52	PASVPHGAGYDVLIQ K FLSLYGDQ L DMHRKF
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 P24549 329 SVYDEFVKRSVERAK**K**YVLGNPLTPGINQGP
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 P24549 378 KEGAKLECGGGRWGN**K**GFFVQPTVFSNVTDE
 P24549 410 RIAKEEIFGPVQQIM**K**FKSVDDVIKРАНNTT
 P24549 419 PVQQIMKFKSVDDVI**K**РАНNTTYGLAAGLFT
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 D3Z0F3 7 MPKKPYSGMMGSYP**K**KPMSSYLRFSTEQLPK
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 G3UZY2 111 AVPTVLAIKNGDVVD**K**FVGIKDEDQLEAFLK
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 Q99LC3 48 HCKLRYGLLAAILGD**K**TTTKLHEYSRVITVD
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Q99LC3	268	CEVLVYDSWEAEDPTKVVEDIEYLKYNKGPW
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Q8VCN5	177	TLKLADIGACAQIVHKGDIILVDNTFMISA
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E9QN44	130	ITDPEQLQTCNVDWLKTVRGCSKVLLRPQTS
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G3X8P6	272	KATNKKGQETFYTASKFVIATGERPRYLGIQ
G3X8P6	290	IATGERPRYLGIQGDKEYCITSDDLFSLPYC
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G3X8P6	511	YGCCGLSEEKAIEMYKKENLEVYHTLFWPLE
G3X8P6	540	LEWTVAGRDNNTCYAKIICNKF DNERVVGFH
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D3YTT4	378	ICNQALQMHGGYGYL K DYAVQQYMRDSRVHQ
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Q9Z2Z6	244	PPDVLKSRFQTAPPG K YPNGFRDVLRELIRE
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P28271	57	LLEAAVRNCDEFLV K K NDIENILNWNVMQHK
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P28271	246	LGQPISMVLPQVIGY K LMGKPHPLVTSTDIV
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P28271	386	SGPKRPQDKVAVSEM K KDFESCLGAKQGFKG
P28271	785	AGKEYGSGSSRDWAA K GPFLLGKAVLAESY
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 Q91XF0 17 TCGLLSVTVTFRRPA**K**WTGYLRHLCCRGAVM

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 G3UZJ6 36 RKEPKSQDIYLRLLV**K**LYRFLARRTNSTFNQ
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 Q922H2 374 KALSSESFERLPVFN**K**SAWRHYKTTPAADW
 Q922H2 381 FERLPVFNKSARHY**K**TTPEADDWSNPSSP
 Q5SQB0 27 LRPQNYLFGCELKAD**K**DYHFKVDNDENEHQL
 O08553 398 VTSTNAAKVFNLVPR**K**GRISVGSDADLVIWD
 Q9D0D3 145 GTHPTQSTEAAPF**K**SRFLNLRKPNPSSQV

Q9D0D3	263	DMFLDLDETGKLDVH K NTGNFFMEFQVKNPV
Q9D0D3	458	LIKEFFEYFGNFAFN K NSINIRQGREQNKPD
D3YZY0	69	YVGDEAQSKRGILT L KYPIEHGII TNWDDME
P09041	97	ADELKSLLNKDVI F L K DCVGPEVEQACANPD
Q60598	70	IHKLRENVFQEHQ T L K EKELETGPKASHGYG
P40142	144	LGAACGMAYTGKY F D K ASYRVYCMLGDGEVS
P40142	204	QSDPAPLQHQVDIY Q K RCEAFGWHTI IVDGH
P40142	497	SNNE D FQVGQAKV V L K SKDDQVTVIGAGVTL
P63276	103	VSALDQEII EVDP D T K EMLKLLDFGSLSNLQ
A2A9Q2	102	EEGRSFSNVGDPEI I K SPSDPKQYRYIKLQ N
A2A9Q2	240	NLFLLSKLTDR L W F K SSYSKMSSTLLVETR
A2A9Q2	435	GKFFWGNAETLKHE P K KNNIDTHARLREFWM
A2A9Q2	613	YEVAHTVFQY L KML Q K LGPEKRVFEEIQKIE
A2A9Q2	724	QYSIEDIENSWTEL W K SNFDLNPDHLPAEN
A2A9Q2	773	YPAKIVNTAQGCLWY K KDNKF K IPKAYIRFH
A2A9Q2	782	QGCLWYKKDNKF K IP K AYIRFHLISPLIQ S
A2A9Q2	796	PKAYIRFHLISPLI Q K SAANVVLFDI F VN I L
D3YU75	130	LDYREDGVTPFM I FF K DGLEMEKCKEMELGD
Q14C51	267	EKNARSYCTMIRGMV K HRAYAQALNVYTE L L
Q14C51	320	NEKFEEKW N DIL D LL K HMVAQKV K PNLQ T FN
Q14C51	339	AQKV K PNLQ T FN T IL K GLRKCYSLGRIPAL Q
Q14C51	517	VANRLELVPQIW K DS K EYSHTFRDALREEV L
Q9D964	297	RRHLAPDYRVH I IS F K DPNPMHIDATFNI I G
P18155	143	GLLVQLPLPEHID E R K VCNAVSPDKD V DGFH
P18155	300	AKPKLVGDVD F EGV K K KAGYITPVPGGV G PM
Q3UHH1	46	ISEAESLCQ N WRGWR K QSAGPNSPTGGGGG G
Q3UHH1	147	DEFQRGDQ L FRMR A V K DPLQIGFHL S ATV V P
Q3UHH1	359	PEGVWNLLSIVRE M F K RRDSNAAP L LEI L TD
Q3UHH1	805	TVELAQD L LANPP D L K VEPPPAKGK K NVST
E9Q3P9	61	VEFATR S IQVDG K TI K AQIWDTAGQERY R AI
P57780	141	KLVSIGAE E IVDG N A K MTLGMIW T II L R F AI
P57780	605	AIHKEAQ R IAES N HI K LSGSNPYTT V TPQ I I
P57780	623	GSNPYTT V TPQ I IN S K WEKVQQLVPKR D HAL
Q8BP47	396	VASIVYELNP N FKPP K RPFRMNYS D AI E WL
Q8BP47	456	TINEPILLCRFP V E I K SFYMQRCPEDP R LTE
D3YYM6	63	YLPHSAGRYAA K R F R K AQCPIVERLT N S M MM
B0V2N5	12	KEK I IEKEKQL L FS K ACRFCPCPPGCC F LW
B0V2N5	46	APPQSVAGPK F GF G P K ISNAVQGLGT D ED S L
B0V2N5	219	ADRLYDS M KGKG T RD K VLIRIMVSRSE V D M L
B0V2N5	262	SLYYYIQQDT K GDY Q K ALLYLCGGDD D GG C L
P47962	8	KVV K VF G MMGFV K V V K NKAYFKRYQVR F RRR
P47962	10	V K VF G MMGFV K V V K NKAYFKRYQVR F RRR R E
P47962	41	G K TDYYARKRL V I Q D K NKYNTPKYRMIV R VT
F8WIR1	251	EGQPGGEL M LGGT D S K YYHGELSYLNV T R K A

