

## Supplementary Information

**Supplementary Information S2.** The positive dataset  $\mathbb{S}_{\text{Hyl}}^+$  contains 107 hydroxylysine peptide fragments and the negative dataset  $\mathbb{S}_{\text{Hyl}}^-$  contains 836 non-hydroxylysine peptide fragments. None of the sequences included has  $\geq 80\%$  pairwise sequence identity with any other in a same subset. See the main text for further explanation.

Positive dataset		
Uniprot ID	Site	Sequence
Q05707	1601	PGVPGA <b>K</b> GERGER
P02457	1085	QGPRGD <b>K</b> GETGEQ
P04258	95	PGPPGM <b>K</b> GPAGMP
Q02388	2631	KGERGV <b>K</b> GACGLD
P20908	627	PGQTGP <b>K</b> GDRGFD
P02459	542	SGLAGP <b>K</b> GANGDP
Q3Y5Z3	63	PGEKGE <b>K</b> GDPGLV
P23805	99	VGEPPG <b>K</b> GDTGPR
P23805	87	VGPIGP <b>K</b> GDNGFV
O18495	38	VGKFYY <b>K</b> HKYYIK
P02459	308	AGAPGV <b>K</b> GESGSP
Q3Y5Z3	96	PGTPGR <b>K</b> GEPGES
P30754	351	SGEPGA <b>K</b> GPTGDT
P02745	48	RGRPGL <b>K</b> GEQGEP
P20908	642	AGLPGE <b>K</b> GHRGDP
P04258	950	RGAMGI <b>K</b> GHRGFP
Q9Y383	269	SHSKNP <b>K</b> RSRSRE
P20908	846	DGPEGP <b>K</b> GRGGPN
Q02388	2625	MGPRGL <b>K</b> GERGVK
P02745	33	RAPDGK <b>K</b> GEAGRP
P26368	15	RQLNEN <b>K</b> QERDKE
P23805	63	ECPHGE <b>K</b> GDPGSP
P20908	774	EGPPGE <b>K</b> GGQGPP
P23805	159	PGPSGL <b>K</b> GEKGAP
P12111	2322	PGYPGP <b>K</b> GNPGEP
P20908	708	DGQPGP <b>K</b> GNVGPQ
P20908	897	PGANGE <b>K</b> GGRGTP
P02459	299	PGLDGA <b>K</b> GEAGAP
P02459	287	PGLPGV <b>K</b> GHRGYP
P02457	494	DGIAGP <b>K</b> GPPGER
P02459	419	DGIPGA <b>K</b> GSAGAP
P02457	740	RGDPGP <b>K</b> GADGAP
Q60994	80	AGLLGP <b>K</b> GETGDV
P02459	374	PGAPGA <b>K</b> GEAGPT
P12111	2209	RGPPGA <b>K</b> GNKGGP
P26368	276	LNDDQV <b>K</b> ELLTSF
P35248	98	AGEPPG <b>K</b> GERGLV
Q3Y5Z3	60	DGTPGE <b>K</b> GEKGDP
P12108	181	NCPPGP <b>K</b> GPQGLQ
Q3Y5Z3	28	EDPPLP <b>K</b> GACAGW
P84698	25	GYPCVN <b>K</b> ACSGCT
O18495	27	EAGWLR <b>K</b> AAKSVG
P84698	18	NGWECC <b>K</b> GYPNVN
P02461	284	TGAPGL <b>K</b> GENGLP
P02459	452	TGPLGP <b>K</b> GQTGEP
Q00433	56	AGAAMD <b>K</b> SAKAPQ
P30754	546	PGVAGA <b>K</b> GQGGPP
P20908	795	PGPRGV <b>K</b> GADGIR

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P02747	75	RGPKGQKGEPGLP
P20908	804	DGIRGLKGTGKEK
O18495	30	WLRKAAKSVGKFY
Q05707	1523	PGMPGEKGEKGD
P83415	21	IRDGVIKAAPAIE
P23805	141	KGETGPKGGVGAP
Q15848	101	PGIQGRKGEPGEG
P04258	107	PGFPGMKGHRGFD
P30943	41	VNMAMDKSAKAPV
P02745	67	TGIQGLKGDQGE
P02457	419	SGAPGPKGNSGEP
O18495	34	AAKSVGKFYYKHK
P20908	807	RGLKGTKGEKGED
P20908	819	DGFPGFKGDMGIK
P30754	933	KGEAGGKGAKGDK
P02747	57	DGLPGPKGEPGIP
P02459	470	KGEQGPKGEPGPA
O18495	44	KHKYYIKAAWQIG
P12111	2337	NGTTGPKGIRGRR
P02459	464	PGIAGFKGEQGP
P19999	47	DGPKGEKGEPGQG
Q3Y5Z3	72	PGLVGPKGDGTET
Q9SE35	174	GSYSGSKGSKRRI
P30754	183	PGTPGSKGDRGQS
P02461	860	PGPQGVKGERGSP
Q4ZJN1	73	DGIRGEKGEPGAD
P02459	608	MGFPGPKGANGEP
P02745	100	RGIPGIKGTKGSP
P30754	342	MGIPGEKGPSGEP
P23805	210	PGETGAKGESGLA
P19999	44	DGRDGPKEKGE
P23805	135	PGTPGPKGETGPK
Q05707	1485	QGEPPGKGPDPGR
P02457	1097	QGDRGMKGHRGFS
P20908	864	LGPPGEKGKLGVP
P35248	86	RGPVGPKGENGSA
Q05707	1701	TGIKGEKGNPGVG
Q4ZJN1	127	QGQKGDKGEVGPT
P04258	119	DGRNGEKGEPGAP
P30754	567	PGERGPKGVGGSK
P02457	851	VGAPGPKGARGSA
P02745	103	PGIKGTKGSPGNI
P20908	882	PGRQGPKGSIGFP
O18495	40	KFYYKHYYIKAA
P20908	744	IGPPGEKGPLGKP
P23805	162	SGLKGEKGAPGET
P30754	939	KGAKGDKGWTGLP
P12111	2212	PGAKGNKGGPGQP
Q05707	1698	RGLTGIKGEKGNP
P23805	198	RGPPGLKGDRGDP
P20908	810	KGTGKEKGEDGFP
Q05707	1476	PGLRGPKGQQGEP
Q9Y383	266	RSRSHSKNPKRSR
P01170	120	CKNFYWKGFTSC@
P02459	620	PGKAGEKGLPGAP
P12111	2103	RGFPGEKGEVGEI
P02457	254	AGLPGMKGHRGFS
P04142	47	IRDGIVKAGPAIE
P02457	1022	DGAAGPKGDRGET

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## Negative dataset

Uniprot ID	Site	Sequence
Q3Y5Z3	129	VPIRFTKIFYNQQ
Q3Y5Z3	144	YDGTGKFLCNIP
Q3Y5Z3	164	HITVYLKDVKVSL
Q3Y5Z3	167	VYLKDVKVSLYKN
Q3Y5Z3	172	VKVS LYKNDKALL
Q3Y5Z3	175	SLYKNDKALLFTH
Q3Y5Z3	187	HDQFQDKNVDQAS
Q3Y5Z3	202	VLLYLEKGDQVWL
Q15848	33	VLLPLPKGACTGW
Q15848	172	VYMKDVKVSLFKK
Q15848	177	VKVSLFKKDKAML
Q15848	178	KVSLFKKDKAMLF
Q15848	180	SLFKKDKAMLFY
Q60994	36	ALVPPPKGTCAGW
Q60994	195	YDQYQEKNVDQAS
Q4ZJN1	49	DGRDGAKGDKGDA
Q4ZJN1	52	DGAKGDKG DAGEP
Q4ZJN1	66	HPGGPGKDGIRGE
Q4ZJN1	85	DGRVEAKGIKGD
Q4ZJN1	88	VEAKGIKGDPGSR
Q4ZJN1	99	SRGSPGKHGPKGS
Q4ZJN1	103	PGKHGPKGSIGPT
Q4ZJN1	124	TGPQGGKGDKEV
Q4ZJN1	148	TGPLGPKGLPGPM
Q4ZJN1	159	PMGP IGP GPRGE
Q4ZJN1	184	RGMRGWK GDRGEK
Q4ZJN1	190	KGDRGEKGVGEA
Q4ZJN1	192	DRGEKGVGEAPL
Q4ZJN1	201	EAPLVPKSAFTVG
Q4ZJN1	213	GLTVISKFP PDA
Q4ZJN1	222	PPDAPIKFDKILY
Q4ZJN1	225	APIKFDKILYNEL
Q4ZJN1	240	YNVATGKFTCHVA
Q4ZJN1	268	VQVSLVKNGVKVL
Q4ZJN1	272	LVKNGVKVLHTKD
Q4ZJN1	277	VKVLHTKDSYMSS
Q4ZJN1	296	GIVQELKLGDEVW
P30754	50	PMGP IGP KRGPPGP
P30754	62	PAGIAGKSGDDGR
P30754	96	PGMPGPKGHRGFR
P30754	108	RGLSGSKGEQGKS
P30754	113	SKGEQKSGNQGP
P30754	146	ERGRDGKSGLPGL
P30754	192	RGQSGIKGAQGLQ
P30754	261	PGQAGAKGDGGPT
P30754	279	PGAPGVKGSSGPP
P30754	299	HAGEAGKRGSPGS
P30754	383	SDGRPGKDGRPGI
P30754	392	RPGIRGKD GKQGE
P30754	395	IRGKD GKQGEQGP
P30754	425	ARGE PGKNGAPGE
P30754	443	EQGDAGKDGETGA
P30754	488	TPGEAGKTGERGA
P30754	573	KGVGGSKGSRGDI
P30754	584	DIGPRGKAGERGK
P30754	590	KAGERGKDGERGE

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P30754	612	SGLAASKGERGDM
P30754	657	AGPAGTKGDIGFP
P30754	674	TRGATGKQGARGP
P30754	686	PRGLAGKRGLRGA
P30754	734	PAGTAGKQGVKGA
P30754	738	AGKQGVKGARGSP
P30754	749	SPGLVGKQGDRGS
P30754	765	PGRDGTKGERGED
P30754	810	MGGQGMKGDGGPP
P30754	851	QEGAPGKDGLPGL
P30754	927	AGIMGMKGEAGGK
P30754	936	AGGKGAKGDKGWT
P30754	986	SQGPPGKDGQPGP
P02457	43	GLTYNDKDVWKPE
P02457	47	NDKDVWKPPECQI
P02457	107	AGVEGPKGDTGPR
P02457	160	SYGYDEKSAGVAV
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P02457	509	PGAVGPKGSPGEA
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P04258	305	PGIAGPKGEDGKD

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P04258	394	GPGSNGKPGPPGS
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P04258	994	PSGPPGKDGASGH
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P12108	207	EPGQQGKQGPKGD
P12108	211	QKGKQGPKG DVGV
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P12108	349	KGGPGDKGEVGAR
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P12108	406	AGQSGPKGEQGPP
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P12108	427	PGVKGDKGSPGKT
P12108	432	DKGSPGKTGP KGS
P12108	436	PGKTGPKGSTGDP
P12108	451	HGLAGVKGEKGES
P12108	454	AGVKGEKGESGEP
P12108	463	SGEPGPKGQQGIQ
P12108	529	I IDVVLKMMQEQL
P12108	543	EVAVSAKRAALGG
P12108	595	IGNIGPKGKRGEK
P12108	597	NIGPKGKRGEKGE
P12108	601	KGKRGEKGERGDT
P12108	634	GHALAGKDG ERGP
Q05707	7	MKIFQRKMRYWLL

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Q05707	51	SIQISW <b>K</b> APRGKF
Q05707	56	WKAPRG <b>K</b> FGGYKL
Q05707	61	GKFGGY <b>K</b> LLVTPT
Q05707	71	TPTSGG <b>K</b> TNQLNL
Q05707	83	LQNTAT <b>K</b> AI IQGL
Q05707	104	QIIAYN <b>K</b> DKESKP
Q05707	106	IAYN <b>K</b> DKESKPAQ
Q05707	109	N <b>K</b> DKES <b>K</b> PAQGQF
Q05707	118	QGQFRI <b>K</b> DLEKRR
Q05707	122	RI <b>K</b> DLE <b>K</b> RKDPKP
Q05707	124	KDLE <b>K</b> R <b>K</b> DPKPRV
Q05707	127	E <b>K</b> RKDP <b>K</b> PRVKVV
Q05707	131	DPKPRV <b>K</b> VVDRGN
Q05707	148	SSPEEV <b>K</b> FVCQTP
Q05707	194	FDVGSE <b>K</b> TRIGLA
Q05707	218	LNAFST <b>K</b> DEVIEA
Q05707	231	VRNL <b>P</b> Y <b>K</b> GGNTLT
Q05707	250	IFENSF <b>K</b> PEAGSR
Q05707	261	SRTGV <b>S</b> <b>K</b> IGILIT
Q05707	270	ILITDG <b>K</b> SQDDII
Q05707	295	LFAIGV <b>K</b> NADVNE
Q05707	346	EQDREI <b>K</b> ASAHAI
Q05707	382	APGNVE <b>K</b> YRVVYY
Q05707	394	YPTRGG <b>K</b> PDEVVV
Q05707	410	VSSTVL <b>K</b> NLM <b>S</b> LT
Q05707	462	ENSMRV <b>K</b> WD <b>A</b> VP <b>G</b>
Q05707	488	GLAGDE <b>K</b> EMKIGE
Q05707	491	GDE <b>K</b> EM <b>K</b> IGETHT
Q05707	591	ITTFPL <b>K</b> GLT <b>P</b> LT
Q05707	655	ADEGLH <b>K</b> LMWIPV
Q05707	665	IPVYGG <b>K</b> TEEVVL
Q05707	672	TEEVVL <b>K</b> EEQDSH
Q05707	754	TSSLRV <b>K</b> WDISDS
Q05707	796	QNNLLL <b>K</b> P <b>L</b> LPDT
Q05707	805	LPDTEY <b>K</b> VT <b>V</b> TPI
Q05707	825	SVSAPG <b>K</b> TL <b>P</b> SSG
Q05707	857	PPSSPV <b>K</b> GYRIVY
Q05707	864	GYRIVY <b>K</b> PVSVPG
Q05707	898	GMDYNV <b>K</b> IFASQA
Q05707	916	ALTGMV <b>K</b> TL <b>F</b> LG <b>V</b>
Q05707	928	VTNLQ <b>A</b> KHVEMTS
Q05707	960	SLQDRQ <b>K</b> QESTVG
Q05707	984	QPDSEY <b>K</b> ISVYTK
Q05707	990	KISVY <b>T</b> <b>K</b> LQEIEG
Q05707	1004	SVSIME <b>K</b> TQSLPT
Q05707	1023	PTIPPA <b>K</b> EVCKAA
Q05707	1027	PAKEVC <b>K</b> AAKADL
Q05707	1030	EVCKAA <b>K</b> ADLVFM
Q05707	1050	GDENFN <b>K</b> IISFLY
Q05707	1064	TVGALN <b>K</b> IGTDGT
Q05707	1086	DPRT <b>E</b> F <b>K</b> LNAYKT
Q05707	1091	FKLNAY <b>K</b> TKETLL
Q05707	1093	LNAYKT <b>K</b> ETLLDA
Q05707	1101	TLLDAI <b>K</b> HISYKG
Q05707	1106	IKHISY <b>K</b> GGNTKT
Q05707	1111	YKGGNT <b>K</b> TGKA <b>I</b> K
Q05707	1114	GNTKTG <b>K</b> AIKYVR
Q05707	1117	KTGKA <b>I</b> KYVRDTL
Q05707	1136	TRRGIP <b>K</b> VIVVIT

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Q05707	1152	SQDDVN <b>K</b> ISREMQ
Q05707	1183	LVSIGS <b>K</b> PSARHV
Q05707	1199	DDFDAF <b>K</b> KIEDEL
Q05707	1200	DFDAF <b>K</b> KIEDELI
Q05707	1222	TCPVVH <b>K</b> DGIDLA
Q05707	1231	IDLAGF <b>K</b> MMEMFG
Q05707	1241	MFGLVE <b>K</b> DFSSVE
Q05707	1266	PCYQLH <b>K</b> DALVSQ
Q05707	1311	LWEILN <b>K</b> NSDPLV
Q05707	1326	ILDNGG <b>K</b> TLTYFN
Q05707	1351	EGPEIR <b>K</b> IFYGSF
Q05707	1359	FYGSFH <b>K</b> LHIVVS
Q05707	1370	VSETLV <b>K</b> VVIDCK
Q05707	1376	KVVIDC <b>K</b> QVGEKA
Q05707	1381	CKQVGE <b>K</b> AMNASA
Q05707	1399	GVEVLG <b>K</b> MVRSRG
Q05707	1431	SWANTD <b>K</b> CCELPG
Q05707	1558	QRGLPG <b>K</b> DGSSGP
P23805	29	MTTFSQ <b>K</b> ILANAC
P23805	122	REGPSG <b>K</b> QGSMGP
P23805	222	AEVNAL <b>K</b> QRVTIL
P23805	243	NAFSQY <b>K</b> KAVLFP
P23805	244	AFSQY <b>K</b> KAVLFPD
P23805	257	GQAVGE <b>K</b> IFKTAG
P23805	260	VGEKIF <b>K</b> TAGAVK
P23805	266	KTAGAV <b>K</b> SYSDAE
P23805	279	QLCREA <b>K</b> GQLASP
P23805	303	MVRAQE <b>K</b> NAYLSM
P23805	355	EIFPDG <b>K</b> WNDVPC
P23805	363	NDVPCS <b>K</b> QLLVIC
Q9Y383	29	TTRQRI <b>K</b> FSDDR
Q9Y383	37	SDDRV <b>K</b> SHLLNC
Q9Y383	61	DLGECL <b>K</b> VHDLAL
Q9Y383	76	DYEIAS <b>K</b> EQDFFF
Q9Y383	105	RRTEVA <b>K</b> KRLAET
Q9Y383	106	RTEVA <b>K</b> KRLAETQ
Q9Y383	122	SAEVA <b>K</b> AERVHE
Q9Y383	135	LNEEIG <b>K</b> LLAKVE
Q9Y383	139	IGKLLA <b>K</b> VEQLGA
Q9Y383	154	NVEESQ <b>K</b> VMDEVE
Q9Y383	161	VMDEVE <b>K</b> KARAKR
Q9Y383	165	VEKAR <b>K</b> KREAE
Q9Y383	166	EKAR <b>K</b> KREAEV
Q9Y383	186	SSFQQ <b>K</b> LRVCEV
Q9Y383	213	ADHFGG <b>K</b> LHLGFI
Q9Y383	224	FIEIRE <b>K</b> LEELKR
Q9Y383	229	EKLEEL <b>K</b> RVVAEK
Q9Y383	235	KRVVAE <b>K</b> QEKRNQ
Q9Y383	238	VAEKQ <b>K</b> ERNQERL
Q9Y383	245	RNQERL <b>K</b> RREERE
Q9Y383	257	EREERE <b>K</b> LRRSRS
Q9Y383	289	SMSRER <b>K</b> RRTRSK
Q9Y383	295	KRRTR <b>K</b> SREKRH
Q9Y383	299	RSKSRE <b>K</b> RHRHRS
Q9Y383	332	RSRERS <b>K</b> RSSKE
Q9Y383	337	SKRRSS <b>K</b> ERFRDQ
Q9Y383	365	PRDRDR <b>K</b> DKRSY
Q9Y383	367	DRDR <b>K</b> DKRSYES
Q9Y383	368	RDR <b>K</b> DKRSYESA

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P30943	44	AMDKSAKAPVITI
P30943	61	GCSRAPKEYTGAK
P30943	67	KEYTGAKAGGKDD
P30943	71	GAKAGGKDDEMMV
P30943	78	DDEMMVKAQSVKI
P30943	83	VKAQSVKIEVSTG
Q00433	82	KESTGGKAGGQDD
Q00433	93	DDEMMVKVASTKV
Q00433	98	VKVASTKVTVSES
Q00433	108	SESDAAKKLQEFI
Q00433	109	ESDAAKKLQEFIT
Q00433	118	EFITFEKGIDGPF
P01170	61	LSQEWSKRAVEEL
P01170	111	LPPRERKAGCKNF
P01170	115	ERKAGCKNFYWKG
P26368	20	NKQERDKENRHRK
P26368	26	KENRHRKRSHSR
P26368	38	SRSRDRKRRSR
P26368	63	DRRRRSKPLTRGA
P26368	70	PLTRGAKEEHGGL
P26368	84	RSPRHEKKKKVRK
P26368	85	SPRHEKKKKVRKY
P26368	86	PRHEKKKKVRKYW
P26368	87	RHEKKKKVRKYWD
P26368	90	KKKKVRKYWDVPP
P26368	108	ITPMQYKAMQAAG
P26368	195	VQINQDKNFAFLE
P26368	225	FQGQSLKIRRPD
P26368	260	VPDSAHLKLFIGGL
P26368	286	TSFGPLKAFNLVK
P26368	292	KAFNLVKDSATGL
P26368	300	SATGLSKGYAFCE
P26368	328	GMQLGDKKLLVQR
P26368	329	MQLGDKKLLVQRA
P26368	340	RASVGAKNATLVS
P26368	408	VRDECSKYGLVKS
P26368	413	SKYGLVKSIEIPR
P26368	431	EVPGCGKIFVEFT
P26368	444	SVFDCQKAMQGLT
P26368	453	QGLTGRKFANRVV
P26368	462	NRVVVTKYCDPDS
P02745	32	CRAPDGKKGEAGR
P02745	81	PSGNPGKVGYPGP
P02745	110	GSPGNIKDQPRPA
P02745	195	FCDTTNKGLFQVV
P02745	219	DQVWVEKDPKKGH
P02745	222	WVEKDPKKGHIYQ
P02745	223	VEKDPKKGHIYQG
P02747	14	LPHLGLKLLLLLL
P02747	47	LPGAPGKDGVDGL
P02747	72	PGIRGPKGQKGEP
P02747	86	LPGHGPKNGPMGP
P02747	115	GEEGRYKQKFQSV
P02747	117	EGRYKQKFQSVFT
P02747	157	YDTSTGKFTCKVP
P02747	161	TGKFTCKVPGLYY
P02747	188	LYRSGVKVVTFCG
P02747	198	FCGHTSKTNQVNS
P04142	5	@MNFARKILSFVF

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P04142	29	APEPRW <b>K</b> IFKKIE
P04142	32	PRWKIF <b>K</b> KIEKMG
P04142	33	RWKIF <b>K</b> KIEKMGR
P04142	36	IFKKIE <b>K</b> MGRNIR
P04142	59	EVLGSA <b>K</b> AIGK@@
P83414	6	@KWKF <b>K</b> KIEKVG
P83414	7	KWKVF <b>K</b> KIEKVGR
P02453	54	HDRDVW <b>K</b> PVPCQI
P02453	79	VICDEL <b>K</b> DCPNAK
P02453	85	KDCPNA <b>K</b> VPTDEC
P02453	170	SYGYDE <b>K</b> STGISV
P02453	429	SGPPGP <b>K</b> GNSGEP
P02453	504	DGVAGP <b>K</b> GPAGER
P02453	750	RGDAGP <b>K</b> GADGAP
P02453	861	VGAPGP <b>K</b> GARGSA
P02453	1107	QGDRGI <b>K</b> GHARGFS
P02453	1309	QPSVAQ <b>K</b> NWYISK
P02452	67	CVCDNG <b>K</b> VLCDDV
P02452	79	VICDET <b>K</b> NCPGAE
P02452	170	SYGYDE <b>K</b> STGGIS
P02452	1316	KNWYIS <b>K</b> NPDKDR
P02452	1319	YISKNP <b>K</b> DKRHWV
P02454	45	PNGETW <b>K</b> PDVCLI
P02454	67	CDGVLC <b>K</b> EDLDCP
P02454	77	DCPNPQ <b>K</b> REGECC
P02454	583	TAGEPG <b>K</b> AGERGV
P02454	824	PGDTGV <b>K</b> G DAGPP
P02454	892	PPGPVG <b>K</b> EGGKGP
P02454	896	VGKEGG <b>K</b> GPRGET
P02454	1374	QQTGNL <b>K</b> KSLLLQ
P02461	7	MMSFVQ <b>K</b> GSWLLL
P02461	108	QGPQGP <b>K</b> GDPGPP
P02461	161	YDSYDV <b>K</b> SGVAVG
P02461	229	PSGPAG <b>K</b> DGESGR
P02461	251	PGPPGI <b>K</b> GPAGIP
P02461	275	DGRNGE <b>K</b> GETGAP
P02461	461	PGVPGA <b>K</b> GEDGKD
P02461	503	NGIPGE <b>K</b> GPAGER
P02461	923	PGVSGP <b>K</b> G DAGQP
P02461	932	AGQPGE <b>K</b> GSPGAQ
P02461	982	VKGESG <b>K</b> PGANGL
P02461	1212	AGIGGE <b>K</b> AGGFAP
P02461	1228	DEPMDF <b>K</b> INTDEI
P02461	1239	EIMTSL <b>K</b> SVNGQI
P02461	1256	SPDGSR <b>K</b> NPARNC
P02461	1266	RNCRDL <b>K</b> FCHPEL
P02461	1273	FCHPEL <b>K</b> SGEYWV
P02461	1286	DPNQGC <b>K</b> LD AIKV
P02461	1313	PLNVPR <b>K</b> HWWTDS
P02461	1323	TDSSAE <b>K</b> KHVWFG
P02461	1324	DSSAE <b>K</b> KHVWFGE
P02461	1387	QASGNV <b>K</b> KALKLM
P02461	1388	ASGNV <b>K</b> KALKLMG
P02461	1391	NVKKAL <b>K</b> LMGSNE
P02461	1401	SNEGEF <b>K</b> AEGNSK
P02461	1407	KAEGNS <b>K</b> FTYTVL
P02461	1419	LEDGCT <b>K</b> HTEWS
P02461	1426	HTGEWS <b>K</b> TVFEYR
P02461	1435	FEYRTR <b>K</b> AVRLPI

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P20908	8	DVHTRW <b>K</b> ARSALR
P20908	44	QPADLL <b>K</b> VLD FHN
P20908	57	LPDGIT <b>K</b> TTGFCA
P20908	69	ATRRSS <b>K</b> GPDVAY
P20908	79	VAYRVT <b>K</b> DAQLSA
P20908	88	QLSAPT <b>K</b> QLYPAS
P20908	107	SILTTV <b>K</b> AKKGSQ
P20908	109	LTTVK <b>A</b> KKGSQAF
P20908	110	TTVK <b>A</b> KKGSQAF
P20908	146	YEDHTG <b>K</b> PGPEDY
P20908	164	INLSDG <b>K</b> WHRIAL
P20908	174	IALSVH <b>K</b> KNVTLI
P20908	175	ALSVH <b>K</b> KNVTLIL
P20908	184	TLILD <b>C</b> KKKTTKF
P20908	185	LILD <b>C</b> KKKTTKFL
P20908	186	ILD <b>C</b> KKKTTKFLD
P20908	189	CKKKTT <b>K</b> FLDRSD
P20908	288	DPEDLG <b>K</b> EPTPSK
P20908	294	KEPTPS <b>K</b> KPVEAA
P20908	295	EPTPS <b>K</b> KPVEAAK
P20908	301	KPVEAA <b>K</b> ETTEVP
P20908	329	TSEGAG <b>K</b> EEDVGI
P20908	452	GGPRGE <b>K</b> GQKGEP
P20908	455	RGEKG <b>Q</b> KGEPAI I
P20908	535	GGDAGS <b>K</b> GPMVSA
P20908	582	PGSGGL <b>K</b> GEPGDV
P20908	605	PPGPAG <b>K</b> PGRRGR
P20908	687	RGLLGP <b>K</b> GPPGPP
P20908	749	EKGPLG <b>K</b> PGLPGM
P20908	767	PPGHPG <b>K</b> EGPPGE
P20908	825	KGDMGI <b>K</b> GDRGEI
P20908	866	PPGEKG <b>L</b> GV PGL
P20908	905	GRGTPG <b>K</b> PGPRGQ
P20908	929	PRGITG <b>K</b> PGPKGN
P20908	933	TGKPGP <b>K</b> GNSGGD
P20908	963	TGFPGP <b>K</b> GPPGPP
P20908	989	ETGFQ <b>G</b> KTGPPGP
P20908	1034	LPGLAG <b>K</b> EGTKGD
P20908	1038	AGKEGT <b>K</b> GDPGPA
P20908	1049	PAGLP <b>G</b> KDGPPGL
P20908	1074	VGALGL <b>K</b> GNEGPP
P20908	1119	PGPAGE <b>K</b> GAPGEK
P20908	1125	KGAPGE <b>K</b> GPPQGPA
P20908	1158	PGEDGD <b>K</b> GEIGEP
P20908	1167	IGEPG <b>Q</b> KGSKGDK
P20908	1170	PGQKGS <b>K</b> GDKGEQ
P20908	1173	KGSKGD <b>K</b> GEGQPP
P20908	1212	QGLFG <b>Q</b> KGDEGPR
P20908	1239	PGPPGE <b>K</b> GETGDV
P20908	1305	GGPPGP <b>K</b> GERGEK
P20908	1311	KGERGE <b>K</b> GESGPS
P20908	1335	PGDDGP <b>K</b> GSPGPV
P20908	1365	DGPPGD <b>K</b> GDDGEP
P20908	1407	EGRQGE <b>K</b> GAKGEA
P20908	1410	QGEKG <b>A</b> KGEAGLE
P20908	1421	LEGPPG <b>K</b> TGP IGP
P20908	1433	PQGAPG <b>K</b> PGPDGL
P20908	1473	PGLPGL <b>K</b> GDSGPK
P20908	1479	KGDSGP <b>K</b> GEGKHP

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P20908	1482	SGPKGEKGHPGLI
P20908	1500	PGEQGEKGDRGLP
P20908	1515	QGSSGPKEQGKIT
P20908	1542	PGPPGPKGAKGSS
P20908	1545	PGPKGAKGSSGPT
P20908	1554	SGPTGPKGEAGHP
P20908	1619	GSLNSLKEIEIQM
P20908	1626	LEIEQMKRPLGTQ
P20908	1640	NPARTCKDLQLCH
P20908	1668	CSRDSFKVYCNFT
P20908	1685	TCVFPDKKSEGAR
P20908	1686	CVFPDKKSEGARI
P20908	1697	RITSWPKENPGSW
P20908	1708	SWFSEFKRGKLLS
P20908	1711	SEFKRGKLLSYVD
P20908	1762	ATGSYDKALRFLG
P20908	1792	VDGCATKKGYQKT
P20908	1793	DGCATKKGYQKTV
P20908	1797	TKKGYQKTVLEID
P20908	1806	LEIDTPKVEQVPI
P20908	1826	FGEASQKFGFEVG
P12111	33	QQQADVKNGAAD
P12111	67	FLYDVVKSLAVGE
P12111	99	LNTYRTKQEVLSH
P12111	120	GTNQTGKLEYIM
P12111	132	MQSHLTKAAGSRA
P12111	155	LTDGHSKDGLALP
P12111	166	LPSAELKSADVNV
P12111	186	ADEGALKEIASEP
P12111	233	GDTETLKDITAQD
P12111	271	LVNLLEKLPIGTQ
P12111	302	LDTYSTKAQVLGA
P12111	310	QVLGAVKALGFAG
P12111	370	YGVVALKQASVFS
P12111	414	FGDLQEKL LPYIV
P12111	430	QRHIVLKPPTIVT
P12111	443	QVIEVNKRDIVFL
P12111	470	IRDFIAKVIQRLE
P12111	505	FNTHPTKREVITA
P12111	514	VITAVRKMKPLDG
P12111	516	TAVRKMKPLDGSA
P12111	551	AAEGIPKLLVLIT
P12111	560	VLITGGKSLDEIS
P12111	573	QPAQELKRSSIMA
P12111	585	AFAIGNKGADQAE
P12111	637	PEVHSNKRDIIFL
P12111	652	GSANVGKTNFPYV
P12111	699	LNTYQTKSDILGH
P12111	783	GASQANKAELEQI
P12111	835	LAQPESKRDILFL
P12111	861	VRDFLYKIIDELN
P12111	869	IDELNVKPEGTRI
P12111	885	QYSDDVKVESRFD
P12111	896	FDEHQS KPEILNL
P12111	904	EILNLVKRMKIKT
P12111	907	NLVKRMKIKTGKA
P12111	909	VKRMKIKTGKALN
P12111	912	MKIKTGKALNLGY
P12111	930	QRYIFVKSAGSRI

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P12111	964	GPASNLKQSGVVP
P12111	976	PFIFQAKNADPAE
P12111	1001	AAESLPKIGDLHP
P12111	1014	QIVNLLKSVHNGA
P12111	1028	APVSGEKDVFLL
P12111	1048	SGFPLLKEFVQRV
P12111	1088	LNSYMNKQDVVNA
P12111	1156	NPSVVVKRGGAVP
P12111	1231	SPGVGGKRDVVFL
P12111	1281	QFSDDPKVEFLLN
P12111	1292	LNAHSSKDEVQNA
P12111	1305	VQRLRPKGGRRQIN
P12111	1325	VSRNIFKRPLGSR
P12111	1347	VLISSGKSDDEV
P12111	1360	DPAVELKQFGVAP
P12111	1380	DQEELVKISLSPE
P12111	1403	LPSLEQKLLTPIT
P12111	1418	TSEQIQKLLASTR
P12111	1472	LNIGPSKVRVGVV
P12111	1491	FPEFYLKTYRSQA
P12111	1518	SPLNTGKALEFVA
P12111	1530	ARNLFVKSAGSRI
P12111	1551	VLVLGGKSQDDVS
P12111	1635	PPSRPEKKKADIV
P12111	1636	PSRPEKKKADIVF
P12111	1637	SRPEKKKADIVFL
P12111	1694	TDEFFLKDFSTKR
P12111	1699	LKDFSTKRQIIDA
P12111	1708	IIDAINKVVKGG
P12111	1712	INKVVYKGRHAN
P12111	1720	GRHANTKVGLEHL
P12111	1754	FVITGGKSVEDAQ
P12111	1772	LTQRGVKVFAVG
P12111	1788	DSEEVGKIASNSA
P12111	1833	GVTDAAKACNLDV
P12111	1856	NVFVAQKGFESKV
P12111	1861	QKGFESKVDAILN
P12111	1913	QPEMLEKFRNMRS
P12111	1931	LTEDTLKVYLNKF
P12111	1936	LKVYLNKFRQSSP
P12111	1946	SSPDSVKVVIHFT
P12111	2027	LDNIAEKACCGVP
P12111	2035	CCGVPCKCSGQRG
P12111	2052	IGSIGPKGIPGED
P12111	2094	PGQRGVKGSRGFP
P12111	2121	DGEDGDKGLPGSS
P12111	2130	PGSSGEKGNPGR
P12111	2139	PGRRGDKGPRGEK
P12111	2170	SQERGPKGETGDL
P12111	2196	GPGETGKNGGFGR
P12111	2272	TGPLGRKGEPGEP
P12111	2281	PGEPGPKGIGNR
P12111	2309	SEGRRGKKGGERGF
P12111	2310	EGRRGKKGGERGFP
P12111	2355	PGIVGQKGDPGYP
P12111	2367	PGPAGPKGNRGDS
P12111	2384	ALIQSIKDKCPCC
P12111	2386	IQSIKDKCPCCYG
P12111	2464	IRFADSKRKSVLL

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P12111	2466	FADSKRKS <del>V</del> LLDK
P12111	2472	KSVLLD <del>K</del> IKNLQV
P12111	2474	VLLD <del>K</del> IKNLQVAL
P12111	2483	QVALTSK <del>Q</del> QSLET
P12111	2500	VARNTFK <del>R</del> VRNGF
P12111	2510	NGFLMRK <del>V</del> AVFFS
P12111	2532	LREAVLKLSDAGI
P12111	2639	FQFNEMK <del>K</del> YIAYL
P12111	2640	QFNEMK <del>K</del> YIAYLV
P12111	2656	DMSPDPK <del>A</del> SQHFA
P12111	2684	ASMP <del>P</del> VKVEFSLT
P12111	2695	LTDYGS <del>K</del> EKLVD <del>F</del>
P12111	2697	DYGSKE <del>K</del> LVD <del>F</del> LS
P12111	2737	PNPRDL <del>K</del> IVVLML
P12111	2763	RVILQA <del>K</del> CKGYFF
P12111	2765	ILQA <del>K</del> CKGYFFV <del>V</del>
P12111	2777	VLGIGR <del>K</del> VNIKEV
P12111	2781	GRKVNI <del>K</del> EVYTFA
P12111	2796	PNDVFF <del>K</del> LVDKST
P12111	2800	FFKLVD <del>K</del> STELNE
P12111	2834	LSPDIR <del>K</del> QCDWFQ
P12111	2846	QGDQPT <del>K</del> NLVKFG
P12111	2850	PTKNLV <del>K</del> FGHKQV
P12111	2854	LVKFGH <del>K</del> QVNVPN
P12111	2875	NPVTTT <del>K</del> PVTTTK
P12111	2888	PVTTTT <del>K</del> PVTTTT
P12111	2895	PVTTTT <del>K</del> PVTTIIN
P12111	2906	INQPSV <del>K</del> PAAAKP
P12111	2911	VKPAAAK <del>P</del> APAKP
P12111	2916	AKPAPAK <del>P</del> VAAKP
P12111	2921	AKPVAAK <del>P</del> VATKM
P12111	2926	AKPVAT <del>K</del> MATVRP
P12111	2937	RPPVAV <del>K</del> PATAAK
P12111	2943	KPATAAK <del>P</del> VAAKP
P12111	2948	AKPVAAK <del>P</del> AAVRP
P12111	2961	PAAAAAK <del>P</del> VATKP
P12111	2966	AKPVAT <del>K</del> PEVPRP
P12111	2976	PRPQAAK <del>P</del> AATKP
P12111	2981	AKPAAT <del>K</del> PATTKP
P12111	2986	TKPATT <del>K</del> PMVKMS
P12111	2990	TTKPMV <del>K</del> MSREVQ
P12111	3006	ITENSA <del>K</del> LHWERA
P12111	3035	DQSLVL <del>K</del> QNLTVT
P12111	3077	HGSFST <del>K</del> KSQPPP
P12111	3078	GSFST <del>K</del> KSQPPP
P12111	3113	TETDICK <del>L</del> PKDEG
P12111	3116	DICKLP <del>K</del> DEGT <del>C</del> R
P12111	3127	CRDFIL <del>K</del> WYYDPN
P12111	3135	YYDPNT <del>K</del> SCARFW
P12111	3151	CGGNEN <del>K</del> FGSQKE
P12111	3156	NKFGSQ <del>K</del> ECEKVC
P12111	3160	SQKECE <del>K</del> VCA <del>P</del> VL
P12111	3168	CAPVLAK <del>P</del> GVISV
Q02388	113	IRELSY <del>K</del> GGNTRT
Q02388	142	ARPGVP <del>K</del> VCILIT
Q02388	151	ILITDG <del>K</del> SQDLVD
Q02388	164	TAAQRL <del>K</del> GQGVKL
Q02388	169	LKGQGV <del>K</del> LFAVGI
Q02388	176	LFAVGI <del>K</del> NADPEE

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Q02388	184	ADPEELKRVASQP
Q02388	263	GPVTGYKVQYTPL
Q02388	459	GLEPPQKVVLPSD
Q02388	727	SAHGPEKSQLVSG
Q02388	1253	CPVYCPKGQKGEP
Q02388	1256	YCPKGQKGEPGEM
Q02388	1295	PGSATAKGERGFP
Q02388	1325	PGAPGLKGSPGLP
Q02388	1346	RGPRGPKGEPGAP
Q02388	1367	PGLPGRKGDPGPS
Q02388	1399	LPGTAMKGDKGDR
Q02388	1402	TAMKGDKGDRGER
Q02388	1443	PVGPPGKKGEEKGD
Q02388	1444	VGPPGKKGEEKGDS
Q02388	1447	PGKKGEKGDSEDG
Q02388	1479	PGAIGPKGDRGFP
Q02388	1494	LGEAGEKGERGPP
Q02388	1518	AGRPGA KGPEGPP
Q02388	1533	TGRQGEKGEPGRP
Q02388	1553	PAVAGPKGEKGDV
Q02388	1556	AGPKGEKGDVGPA
Q02388	1588	PGDPGPKGDPGDR
Q02388	1615	SGPPGEKGDPGRP
Q02388	1639	DGEVGEKGDEGPP
Q02388	1653	DPGLPGKAGERGL
Q02388	1672	RGPVGEKGDQGDP
Q02388	1693	PGSSGPKGDRGEP
Q02388	1718	GPGAREKGEPGDR
Q02388	1733	EGPRGPKGDPGLP
Q02388	1769	RGPAGEKGDRGPP
Q02388	1786	RSGLDGKPGAAGP
Q02388	1801	PNGAAGKAGDPGR
Q02388	1831	PPGLPGKPGEDGK
Q02388	1837	KPGEDGKPGLNGK
Q02388	1843	KPGLNGKNGE PGD
Q02388	1856	PGEDGRKGEEKGDS
Q02388	1859	DGRKGEKGD SGAS
Q02388	1874	EGRDGPKGERGAP
Q02388	1912	PGGTGPKGDRGET
Q02388	1921	RGETGSKG EQGLP
Q02388	1952	LETAGI KASALRE
Q02388	1981	ERRRGPKGDSGEQ
Q02388	1992	EQGPPGKEGP IGF
Q02388	2005	PGERGLKGDRGDP
Q02388	2038	LAGEPGKPGI PGL
Q02388	2066	RGERGEKGERGEQ
Q02388	2093	PGPPGPKVS VDEP
Q02388	2113	QGPPGLKGA KGEP
Q02388	2116	PGLKGA KGEPGSN
Q02388	2128	NGDQGPKGDRGVP
Q02388	2137	RGVPGI KGDRGEP
Q02388	2166	MAGPEGKPGLQGP
Q02388	2206	QGPSGLKGEPGET
Q02388	2255	QVGETGKPGAPGR
Q02388	2267	RDGASGKDGRGS
Q02388	2289	PGPVGPKGEPGPT
Q02388	2309	VGLPGA KGEEKGAP
Q02388	2312	PGA KGEKGAPGGL
Q02388	2329	VGEPGA KGDRGLP

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Q02388	2341	PGPRGEKGEAGRA
Q02388	2359	PGEDGQKGAPGPK
Q02388	2365	KGAPGPKGFKGDP
Q02388	2368	PGPKGFKGDPGVG
Q02388	2388	PGPPGVKGDGLLP
Q02388	2457	PGASGLKGDKGDP
Q02388	2460	SGLKGDKGDPGVG
Q02388	2507	RGERGEKGDVGSA
Q02388	2516	VGSAGLKGDKGDS
Q02388	2519	AGLKGDKGDSAVI
Q02388	2535	PGPRGAKGDMGER
Q02388	2550	RGLDGDKGPRGDN
Q02388	2562	NGDPGDKGSKGEP
Q02388	2565	PGDKGSKGEPGDK
Q02388	2571	KGEPGDKGSAGLP
Q02388	2603	DPGSPGKDGVPPI
Q02388	2613	PGIRGEKGDVGFM
Q02388	2640	CGLDGEKGDKGEA
Q02388	2643	DGEKGDKGEAGPP
Q02388	2658	PGLAGHKGEMGEP
Q02388	2675	QSGAPGKEGLIGP
Q02388	2682	EGLIGPKGDRGFD
Q02388	2694	DGQPGPKGDQGEK
Q02388	2700	KGDQGEKGERGTP
Q02388	2742	EGLQGQKGERGPP
Q02388	2780	AGPRGEKGEAALT
P19999	28	TCEETLKTCSVIA
P19999	63	LQGPPGKLGPPTS
P19999	79	PGSQGPKGQKGR
P19999	82	QGPKGQKGRGDS
P19999	94	SRAIEVKLANMEA
P19999	106	AEINTLKSLELT
P19999	108	INTLKSLELTNK
P19999	114	KLELTNKLHAFSM
P19999	122	HAFSMGKKSCKKF
P19999	123	AFSMGKKSCKKFF
P19999	126	MGKKSCKKFFVTN
P19999	127	GKKSCKKFFVTNH
P19999	140	ERMPFSKVKALCS
P19999	142	MPFSKVKALCSEL
P19999	162	RNAEENKAIQEVA
P19999	169	AIQEVAKTSAFLG
P19999	199	LTYSNWKKDEPND
P19999	200	TYSNWKKDEPNDH
P35248	23	DLGAEMKTLQRS
P35248	118	ISGPAGKEGPSGK
P35248	124	KEGPSGKQGNIGP
P35248	133	NIGPQGPKEAGPK
P35248	137	QGPKEAGPK
P35248	143	KGEAGPKGEVGAP
P35248	158	QGSAGAKGPAGPK
P35248	203	RGPPGLKGRGAP
P35248	215	PGDRGIKGESGLP
P35248	236	MEALNGKLQRLEA
P35248	248	AAFSRYKKAALFP
P35248	262	GQSVGDKIFRAAN
P35248	277	EPFEDAKEMCRQA
P35248	308	LVTAHSKAAFLSM
P35248	322	DVGTEGKFTYPTG

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P35248	362	NGQWNDKACGEQR
Q9SE35	36	LSTEDSKSAQLIS
Q9SE35	110	LRILSSKKSYSYY
Q9SE35	111	RILSSKKSYSYS
Q9SE35	121	YYSYGTKKSYSYS
Q9SE35	122	YSYGTKKKSYSYS
Q9SE35	132	YSGYSTKKSASRR
Q9SE35	133	SGYSTKKSASRRI
Q9SE35	177	SGSKGSKRRILSS
Q9SE35	203	RRNLSSKKSYSYS
Q9SE35	204	RNLSSKKSYSYS
O18495	51	AAWQIGKHALGDM
O18495	67	EFQDFMKEVEQAR

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