

Supporting Information S1. The benchmark dataset used in this study contains 8,713 peptides formed by 19 amino acid residues with Y (tyrosine) at the center. Of these peptides, 1,044 are of nitrotyrosine and 7,669 of non-nitrotyrosine. Listed are also the codes of the source proteins from which these 19-tuple peptide sequences are derived as well as their corresponding sites in proteins. See the main text for further explanation.

I. Positive dataset contains 1,044 samples

Uniprot ID	Site	Sequence
Q9L422	51	QTERYRGSEYTFEFLQKLK
P00781	21	KADKVQAQGYKGANVKVGI
P00781	56	GASFVSGESYNTDGNGHGT
P00781	90	LGVAPNVSLYAIKVLNSSG
P00781	103	VLNSSSGSGTYSAIVSGIEW
P00781	142	ALKQAVDKAYASGIVVVA
P00781	166	SSGSQNTIGYPAKYDSVIA
P00781	205	EVMAPGVSVYSTYPSNTYT
P00781	208	APGVSVYSTYPSNTYTSLN
P00781	213	VYSTYPSNTYTSLNGTSMA
P00781	237	GAAALILSKYPTLSASQVR
P00781	261	TATNLGDSFYYGKGLINVE
P00781	262	ATNLGDSFYYGKGLINVEA
P07999	160	KIPWPLFVHYAASKGGMKL
P07999	254	LFADGGMTQYPSFQAGRGX
P14779	335	WPTAPAFSLYAKEDTVLGG
P08877	29	TVLVQTASKYDADVNLEYN
P08877	37	KYDADVNLEYNKTVNLKS
P68735	242	GATVPLNISYEGGKYVLRD
P68735	379	VTQETANLIYENQPGALNE
P00257	140	EENDMLDLAYGLTDRSRLG
P00366	319	GNVGLHSMRYLHRFGAKCI
P00366	458	VSYGRLTFKYERDSNYHLL
P00366	464	TFKYERDSNYHLLMSVQES
P00366	528	RQIMRTAMKYNLGLDLRTA
P00366	550	NAIEKVFRVYNEAGVTFX
P00442	109	DPLISLSGEYSIIGRTMVV
P00730	308	FKAFLSIHSYSQLLLYPYG
P00730	358	KYGSIIITTIYQASGGSIDW
P00766	146	VTTGWGLTRYTNANTPDRL
P00766	171	LLSNTNCKKYWGTKIKDAM
P01180	80	EALRCQEENYLPSPCQSGQ
P02663	199	ALPQYLKTVYQHOKAMKPW
P02666	208	DMPIQAFLLYQEPVLGPVR
P02754	115	NKVLVLDTDYKKYLLFCME
P02769	54	GLVLIAFSQYLQOCPFDEH
P02769	108	CKVASLRETYGDMADCCEK
P02769	161	ADEKKFWGKYLEIARRHP
P02769	163	EKKFWGKYLEIARRHPYF
P02769	171	LYEIARRHPYFYAPELLYY
P02769	173	EIARRHPYFYAPELLYYAN
P02769	179	PYFYAPELLYANKYNGVF

P02769	180	YFYAPELLY Y ANKYNGVFQ
P02769	184	PELLYYANK Y NGVFQEQCCQ
P02769	286	ADDRADLAK Y ICDNQDTIS
P02769	342	AEDKDVCKN Y QEAKDAFLG
P02769	355	KDAFLGSFL Y EYSRRHPEY
P02769	357	AFLGSFL Y EYSRRHPEYAV
P02769	364	YEYSRRHPE Y AVSVLLRLA
P02769	376	SVLLRLAKE Y EATLEECCA
P02769	393	CAKDDPHAC Y STVFDKCLKH
P02769	424	CDQFEKLGE Y GFQNALIVR
P02769	434	GFQNALIVR Y TRKVPQVST
P02769	475	SERPCTED Y LSSLILNRLC
P02769	520	FSALTPDET Y VPKAFDEKL
P11151	103	WVPKLVAAL Y KREPDSNVI
P11151	124	DWLSRAQQH Y PVSAGYTKL
P11151	130	QQHYPVSAG Y TKLVGQDVA
P11151	194	LDPAGPNFE Y AEAPSRLSP
P11151	318	RKNRCNNMG Y EINKVRAKR
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P11151	346	SQMPYKVFH Y QVKIHFSGT
P11151	455	IFCSREKMS Y LQKGKSPVI
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P17694	53	AEQYGGAVM Y PTKETAHWK
P23709	247	NSPWEAFPA Y RQPPELKL
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P31039	142	WLGDQDAIH Y MTEQAPASV
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P48305	47	AIRSRLKRE Y QLQYYDPSR
P48305	51	RLKREYQLQ Y YDPSRRGVI
P48305	52	LKREYQLQ Y YDPSRRGVIE
P48305	129	KLDRTFNIS Y XXXXXXXXXX
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P61823	102	NGQTN Y CYSTMSITDCR
P61823	141	IIVACEGN Y PVPVHFDASV
Q02366	123	RPKDFLSK Y FVGHDPXXXX
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P60615	75	AATCPSK Y KEEVTCCSTD
P00294	83	LTEAGT Y SFYCAPHQGAGM
P00784	137	NDGDVNIPE Y VDWRQKGAV
P00784	194	ELLDCDRR Y SGCNGGYPWS
P00784	236	YCRSREK Y GAAKTDGVRQ
P00784	249	TDGVRQ Y QVYNEGALLYSI
Q60468	128	GAVVGGLG Y MLGSAMSRP
Q60468	162	NMNRYPN Y QVYRQVYDQYNN
Q60468	163	MNRYPN Y QVYRQVYDQYNNQ
Q60468	218	VVEQMCV Y TQYQKESQAYYD
Q60468	225	TQYQKESQ Y AYDGRSSAV
Q60468	226	QYQKESQ Y AYDGRSSAVL
P69542	26	SGVSRQ Y KPYSLNEQLCYV
P69542	41	LCYVDL Y GNEYPVLVKITLD

P69542	56	ITLDEGQPAYAPGLYTVHL
P03040	26	TKTAKDLGVYQSAINKAIH
P03040	51	LTINADGSVYAEVVKPFPS
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P13332	74	FMSAMNFLOYGNDLRVVRA
P13332	226	YGIPGVVALYPGELGDKIE
P13332	255	KGASALLPIYPGGGTRAST
P13332	271	ASTAKAVFGYGPQTD SQYA
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P13332	461	GNHKYQYDKYNDVNRWVPL
P13332	494	SQTWMSYPAGYNRGQILNVI
P13332	533	PVTGTGGDGYVLYGDKTAT
P13332	536	GTGGDGYVLYGDKTATSVP
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P13332	591	SSFRTETAQYLQGNKALGG
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P00004	75	MEYLENPKKYIPGTKMIFA
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P01245	61	DTYKEFERAYIPEGQRYSI
P01245	68	RAYIPEGQRYSIQNAQAAF
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P01245	184	RSDDALLKNYGLLSCFKKD
P01245	200	KKDLHKAETYL RVMKCRRF
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P03023	47	VEAAMAELNYIPNRVAQQL
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P0A786	241	QKERLDPSEYANVKAQFVL
P0A881	7	XXXMAQQSPYSAAMAEQRH
P0A881	30	RFVDLLKNA YQNDLHLPLL
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P0A9C5	115	RSIAKRAEDYLRSTGIADT
P0A9C5	180	GHRPAVKGGYFPVPPVDSA
P0A9C5	288	GVNLFAGDKYAGLSEQALY
P0A9C5	297	YAGLSEQALYYIGGVIKHA
P0A9C5	327	NSYKRLVPGYEAPVMLAYS
P0A9C5	335	GYEAPVMLAYSARNRSASI
P0A9C5	398	PGEAMDKNLYDLPPEEAKE
P0AGD3	35	YHYGKHHQTYVTNLNLIK
P12758	169	DTFYPGQERYDTYSGRVVR
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P42914	139	VFKTRIKMFYRPAHLKGRV
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P00338	239	VHKQVVESEYEVIKLKGYT
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P00747	425	YPNAGLTMNYCRNPDADKG
P00749	44	NGGTCVSNKYFSNIHWCNC
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P01009	184	EEAKKQINDYVEKGTQGKI
P01009	211	RDTV FALVNYIFFKGKWER
P01009	268	LSSWVLLMKYLG NATAIFF
P01009	321	LPKLSITGTYDLKSVLGQL
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P01031	700	KHSVVKCCYDGACVN NDE
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P01112	137	RQAQDLARSYGIPYIETSA
P01112	157	TRQGVEDAFYTLVREIRQH
P01857	161	EDPEVKFNWYVDGVEVHNA
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P04114	720	FPDSVNKALYWVNGQVPDG
P04114	2524	TLEDTRDRMYQMDIQOELQ
P04114	3139	LTIPEMRLPYTIITTPPLK
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P04114	4116	NLQNNAEWVYQGAIQIDD
P04114	4141	KAASGTTGTYQEWKDKAQN
P04114	4211	FQFPGKPGIYTREELCTMF
P04179	58	LHHSKHHAAYVNNLNVTEE
P04179	69	NNLNVTEEKYQEALAKGDV
P04179	217	INWENVTERYMACCKXXXX
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P05181	71	QRFGPVFTLYVGSQRMVVM
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P05230	30	GNYKKPKLLYCSNGGHFLR
P05230	70	LSAESVGEVYIKSTETGQY
P05230	109	FLERLEENHYNTYISKKHA
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P09237	167	FARGAHGDSYPPFDGPGNTL
P09429	78	ARYEREMKTYIPPKGETKK
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P10153	60	TNAMQVINNYQRRCKNQNT
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P11413	401	IRVQPNEAVYTKMMTKKPG
P11586	52	VGNRDDSNLYINVKLKAAE
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P13639	434	LKVRIMGPNYTPGKKEDLY
P13639	443	YTPGKKEDLYLKPIQRTIL
P13639	671	LTDITKGVQYLNKIKDSVV
P13796	598	MARKIGARVYALPEDLVEV
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P13929	57	ELRDGDKGRYLGKGVLKAV
P13929	131	GAAEKGVPLYRHIADLAGN
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P13929	252	GMDVAASEFYRNGKYDLDF
P13929	257	ASEFYRNGKYDLDFKSPDD
P13929	280	ITGEKLGELYKSFINKYPV
P13929	287	ELYKSFINKYPVVSIEDPF
P13929	407	PCRSERLAKYNQLMRIIEEA
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P14625	677	QTGKDISTNYYASQKKTFE
P14649	86	DRVGDGKILYSQCGDVMRA
P14902	15	ENSWTISKEYHIDEEVGFA
P14902	345	VKALVSLRSYHLQIVTKYI
P14902	353	SYHLQIVTKYILIPASQQP
P15311	424	EQLAAELAEYTAKIALLEE
P15880	266	KETVFTKSPYQEFTHLVK
P16284	713	LGKKDTETVYSEVRKAVPD
P16401	74	LKKALAAGGYDVEKNNSRI
P18669	50	GGQALRDAGYEFDICFTSV
P18669	92	RTWRLNERHYGGLTGLNKA
P18669	142	YSNISKDRRYADLTEDQLP
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P19338	525	QNQNGKSKGYAFIEFASFE
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P19652	55	IASAFRNEEYNKSVQEIQA
P19652	68	VQEIQATFFYFTPNKTEDT
P19652	96	QNQCFYNSSYLNQRENGT
P19652	109	QRENGTVSRYEGGREHVAH
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P19784	13	PAAGSRARVYAEVNSLRSR
P20618	158	VYSFDPVGSYQRDSFKAGG
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P20700	482	RKIGDTSVSYKYTSRYVLK
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P20813	268	SAPKDLIDTYLLHMEKEKS
P20813	348	ELHDRAKMPYTEAVIYEIQ
P20813	354	KMPYTEAVIYEIQRFSDLL
P20813	380	VTQHTSFRGYIIPKDTEVF
P20813	484	CGVGKIPPTYQIRFLPRXX
P21333	373	HIAKSPFEVYVDKSQGDAS
P21333	1308	NPSGNLTETYVQDRGDGMY
P22102	417	AAIKFEGAIYRKDVGFRAI
P22234	22	LYEGKTKEVYELLDSPGKV
P23193	126	KDETWARDTYVSSFPRAPPS
P23193	273	GKCKKKNCTYTQVQTRSAD
P23246	691	GMGPGTPAGYGRGREEYEG
P23528	68	DVGQTVDDPYATFVKMLPD
P23528	140	IKHELQANCYEEVKDRCTL
P24071	223	VVTDSIHQDYTTQNLIRMA
P24666	88	TKEDFATFDYILCMDESNL
P25205	147	RPKVVRSVHYCPATKKTIE
P25205	456	SVLAAANPVYGRYDQYKTP
P25705	337	LRRPPGREAYPGDVFYLHS

P25705	440	GTMKLELAQYREVAFAQF
P25705	8	XXMLSVRVAYAVVRALPRR
P25963	181	LHSILKATNYNGHTCLHLA
P25963	305	TEFTEDELPYDDCVFGGQR
P26038	85	LLFKFRAKFYPEDVSEELI
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P26599	430	QEDQGLTKDYGNSPLHRFK
P26639	252	KVNTPTTTVYRCGPLIDLC
P26639	298	ADMETLQRIYGISFPDPKM
P27361	156	LYQILRGLKYIHSANVLHR
P27797	285	KPRQIDNPDYKGTWIHPEI
P27816	1001	VQIVSKKVSYSHIQSKCGS
P27824	70	KAPVPTGEVYFADSFDRGT
P28072	59	ADSRTTTGSYIANRVTDKL
P29372	162	PGTLYVYIIYGMFCMNIS
P29474	81	KNWEVGSITYDTLSAQAOQ
P29474	163	EAEVAATGTYQLRESELVF
P29474	210	CRSAQEMFTYICNHIKYAT
P29474	331	WFAALGLRWYALPAVSNML
P29474	357	FPAAPFSGWYMSTEIGTRN
P29474	373	TRNLCDPHRYNILEDVAVC
P29474	410	EINVAVLHSYQLAKVTIVD
P29474	524	AKRVKATILYGSETGRAQS
P29474	534	GSETGRAQSYAQQLGRLFR
P29474	556	DPRVLCMDEYDVVSLEHET
P29474	609	SPRPEQHKSYPKIRFNSISC
P29474	657	CVFGLGSRAYPHFCAFARA
P29474	793	DTGGQEGLOYQPGDHIGVC
P29474	939	TQLPLLQPRYYSVSSAPST
P29474	940	QLPLLQPRYYSVSSAPSTH
P29474	962	IHLTVAVLAYRTQDGLGPL
P29474	973	TQDGLGPLHYGVCSTWLSQ
P29474	1087	SREPDPNPKTYVQDILRTEL
P29474	1155	IGVLRDQQRYPHEDIFGLTL
P29692	26	KYDDAERRFYEQMNGPVAG
P30086	64	WDGLDSGKLYTLVLTDPDA
P30086	106	ISSGTVLSDYVGSPPKGT
P30101	67	GHCKRLAPEYEAATRCLKG
P30101	100	TCNKYGVSGYPTLKI FRDG
P31948	354	ILKEQERLAYINPDLALEE
P32969	180	DIRKFLDGIYVSEKGTVQQ
P33993	21	KVKKFLQEFYQDDELGKKQ
P34913	383	SIKANPVFDYQLYFQEPGV
P34913	466	SGFRGPLNWRNMERNWKW
P34932	336	QTKLKKEDIYAVEIVGGAT
P35080	99	TKSQGGEPTYNVAVGRAGR
P35228	299	CIDLGWKPKYGRFDVVPLV
P35228	336	LEVAMEHPKYEFWRELELK
P35228	446	HSAAESFMKYMONEYRSRG
P35228	698	KQHIQIPKLYTSNVTWDPH
P35247	248	QHLQAAFSQYKKVELFPNG
P35247	326	DSKTEGKFTYPTGESLVYS

P35247	334	TYPTGESLVYSNWAPGEPN
P35250	322	KLEFIKEIGYTHMKIAEGV
P35520	223	IPNSHILDQYRNASNPLAH
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P35637	468	PGGSHMGNYGDDRRGGRG
P35998	4	XXXXXXMPDYLGADQRKTK
P36578	184	KAWNDIKKVYASQRMRAGK
P36578	277	RKAASLKSNNLPMHKMIN
P36776	473	WLTSIPWGKYSNENLDLAR
P36959	318	LGGLRSTCTYVGAACLKEL
P37802	192	GASQAGMTGYGMPRQILXX
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Q9CZC8	293	QNRSSPCIH Y FTGTPDPSR
Q9D0K2	43	VSTRHHTKF Y TDPVEAVKD
Q9D0K2	115	KQIKRMISS Y VGENAEFER
Q9D6J6	69	KRIEAIVKN Y PEGHQAAAV
Q9D855	56	AIRRLPEDL Y NDRMLRIKR
Q9D974	82	RFNQCRERI Y TKLIKFTSW
Q9DB20	35	KLVRPPVQV Y GIEGRYATA
Q9DBG3	707	TGIGMAPGG Y VAPKAVWLP
Q9JIS5	511	ENQIHRGGQ Y FNDKFIGLR
Q9NRM2	99	VKLVAADFQ R YILYWRKRFT
Q9NRM2	102	VADFQRYIL Y WRKRFTEQP
Q9QUH6	505	EYMRLIGQK Y LKDAIGEFI
Q9QWH1	593	LLVGNLKKK Y AQGFLPEKP
Q9QYG0	68	KPKRPAIFT Y HDVGLNYKS
Q9Z188	129	GSFGQVVKA Y DHQTOELVA
B2RSH2	167	DLDRIAQPN Y IPTQODVLR
O08530	19	KALRSSVSD Y GNYDIIVRH
O08553	182	RFQLTDSQI Y EVLSVIRDI
O08553	431	AKTHNSALE Y NIFEGMECR
O08585	146	KAIKELEEW Y ARQDEQLQK
O35633	186	GEVVRVRDS Y VAIANACCA
O35643	574	CYIGTLASV Y HKPPNAFVE
O35652	153	FCKLDYFR R YGTRCSRCGR
O35678	58	HGAGEHCGR Y DELAHMLKG
O88990	292	QENEKLMEE Y EKLASELLE
P60301	32	KCNKLVPLF Y KTCPAGKNL
P60301	43	TCPAGKNLC Y KMFMVATPK
P60301	72	CPKSSLLVK Y VCCNTDRCN
P60770	46	GCSGGETNC Y KKRWRDRHG
P60770	56	KKRWRDRHG Y RTERGCGCP
P01448	22	TCPAGKNLC Y QMYMVSST
P01448	25	AGKNLCYQ M YMVSKSTIPV
P01448	51	CPKSSLLVK Y VCCNTDRCN
P01426	24	KTCPGETNC Y KKVWRDRHG
P00369	169	REIGYMFGA Y RKAANRFEG
P01387	4	XXXXXXTKC Y VTPDVKSET
P01387	22	TCPAGQDIC Y TETWCDAWC
P00187	72	VALARLSRR Y GDFVQIRLG
P00187	189	MAAVGRFDP Y SQLVVSAAR

P00187	244	PVDFFPILR Y LPNRPLQRF
P00187	272	FLQKTVREH Y EDFDRNSIQ
P00187	367	RLSDRPQLP Y LEAFILELF
P00489	75	GRWIRTQQH Y YEKDPKRIY
P00489	76	RWIRTQQH Y YEKDPKRIYY
P00489	84	YYEKDPKRI Y YLSLEFYMG
P00489	85	YEKDPKRI Y YLSLEFYMGR
P00489	91	RIYYLSLEF Y MGRTLQNTM
P00489	114	LENACDEAT Y QLGLDMEEL
P00489	162	LAAYGYGIR Y EFGIFNQKI
P00489	186	MEEADDWLR Y GNPWEKARP
P00489	204	PEFTLPVHF Y GRVEHTSQG
P00489	227	DTQVVLAMP Y DTPVPGYRN
P00489	234	MPYDTPVPG Y RNNVVNTMR
P00489	263	NLKDFNVGG Y IQAVLDRNL
P00489	281	LAENISRVL Y PNDNFFEGK
P00489	298	GKELRLKQ Y FVVAATLQD
P00489	405	LLPRHLQI Y IEINQRFLNR
P00489	473	LKKTIFKDF Y ELEPHKFQN
P00489	512	IIAERIGEE Y ISDLQLRK
P00489	525	LDQLRKLLS Y VDDDEAFIRD
P00489	549	QENKLFKFA Y LEREYKVHI
P00489	554	KFAAYLERE Y KVHINPNSL
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P00489	649	RLRVIFLEN Y RVSLAEKVI
P00489	727	DVDRLDQRG Y NAQEYYDRI
P00489	778	HDRFKVFAD Y EYVKCQER
P00489	781	FKVFADYEE Y VVKCQERVSA
P00489	792	KCQERSAL Y KNPREWTRM
P00489	821	FSSDRTIAQ Y AREIWGVEP
P00883	204	GDHDLKRCQ Y VTEKVLAAV
P00883	223	YKALSDHHI Y LEGTLLKPN
P00883	244	TPGHACTQK Y SHEEIAMAT
P00883	328	ENLKAAQEE Y VKRALANSL
P00883	343	ANSLACQGK Y TPSGQAGAA
P00883	364	ESLFISNHAYXXXXXXXXXX
P01870	154	DDPEVQFTW Y INNEQVRTA
P02602	60	DEFKEAFLL Y DRTGDSKIT
P02602	127	ISNNKDQGT Y EDFVEGLRV
P02602	182	QEDSNGCIN Y EAFVKHIMS
P46406	312	DHFVKLISW Y DNEFGYSNR
P46406	318	ISWYDNEFG Y SNRVVDLMV
P01218	45	PECKLKENK Y FSKPDAPIY
P01218	65	CMGCCFSRA Y PTPARSKKT
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P01218	117	TEHCSTCY Y HKSXXXXXX
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P01240	177	IPGAKETEP Y PVWVGLPSL
P01240	199	DEDARHSAF Y NLLHCLRRD
P01240	215	RRDSSKIDT Y LKLLNCRII
P01240	225	LKLLNCRII Y NNNCXXXXX
P05979	355	EYVQQLSG Y FLQLKFDPE

P05979	385	RIAMEFNQLYHWHPLMPDS
P05979	417	LFNTSMLVDYGVEALVDAF
P16038	84	EMVNRFDSEQYGQGINSESK
Q51918	359	TFEEATAKAYAYADLLAKE
Q51918	361	EEATAKAYAYADLLAKENG
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P02244	19	VWDPSFRTFYSIIDDEHKT
P02244	68	EQVLMQASQYQFYDEHKKE
P02244	71	LMQASQYQFYDEHKKEHET
P02185	104	ATKHKIPIKYLEFISEAII
P02185	147	LFRKDIAAKYKELGYQGXX
P02185	152	IAAKYKELGYQGXXXXXXXX
P00183	97	FIPREAGEAYDFIPTSM DP
P00183	180	PEEDIPHLKYLTDQMTRPD
P00183	202	TFAEAKEALYDYLIPII EQ
P00183	204	AEAKEALYDYLIPII EQRR
P00183	306	ADGRILTSDYEFHGVQLKK
P00564	14	NTHNKFKLNYKQPQEEYPDL
P00564	20	KLNYKQPQEEYPDLSKHNNH
P00564	39	MAKVLTPDLYNKLRDKETP
P00773	53	LQYLSGGSWYHTCGGTLIR
P02564	134	VNPYKWLVPYNAQVVAAYR
P02564	142	VYNAQVVAAYRGKKRSEAP
P04177	423	DPDTAAVQPYQDQTYQPVY
P04177	428	AVQPYQDQTYQPVYFVSES
P04177	432	YQDQTYQPVYFVSESFNDA
P04692	214	KSLEAQAEKYSQKEDKYEE
P04764	131	GAVEKGVPLYRHIADLAGN
P04764	257	ASEFYRAGKYDLDFKSPDD
P07825	250	PGDAYGDAGYGQGPGGYGP
P08011	93	VPFLGIGLLYSLSGPDLST
P08011	154	AYRLLRSRLYLXXXXXXXX
P10066	17	EDRGFQGRCECSDCPNL
P18163	9	XMEVHELFRYFRMPELIDI
P18163	86	LEDDKLLLYYDDVRTMYD
P19357	56	APQKVIEQSYNATWLGRQG
P21807	17	LRSSISSTSYRRTFGPPPS
P21807	376	EEMARHLREYQELLNVKMA
P32198	282	GNTIHAILLYRRTL DREEL
P32198	589	KDMGKFCLTYEASMTRLFR
P35570	489	LSRGGNGHRYIPGATMGTS
P35570	939	PREETGSEEYMNMDLGPGR
P35570	999	MQIGCPRQSYVDTSPVAPV
P35570	1010	DTSPVAPVSYADMRTGIAA
P35570	1172	AGGLEKSLNYIDL DLVKDV
P48548	53	PEGKKPRQRYMEKTGKCNV
P52504	106	KETKTGTCA YCGLQFKQQH
P56574	311	GGFVWACKNYDGDVQSDIL
P70623	20	LVSENFD DYMKEVGVGFA
P98158	4407	LPKCKCSSGYSGEYCEVGL
Q62673	481	LMKKITLLNYFRNYMSEHL
Q62886	289	QKLLIKEGYKCSKTAPSP

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Q63544	39	AEKTKEGVMYVGTKTKGER
Q64455	1034	WRMVWEKNVYAIVMLTKCV
Q91YE5	1882	FFESRWEFFYQGKQANLXX
Q923K9	83	PLCEKIGKIYEMRMMDFN
Q9CR40	322	GLAPLNIPRYEFGICVLDQ
Q9JKL9	214	LRDSRKVNTYLEVIKYQIF
Q9QYP2	465	ICLREPCENYMRCVSVLRF
Q07008	1175	GFSCCKVAGYHGSNCSEEI
Q07008	1205	GTCIDL TNTYKCSCPRGTQ
Q07008	1905	APAVISDFIYQGASLHNQT
Q9QXQ0	260	RPDEKAIMTYVSSFYHAFS
O15229	37	AKRNFQIDVYEAREDTRVA
O54922	409	NIKNDPDKEYNMPKDGTVH
O88457	5	XXXXXMEERYYPVIFPDER
O88457	6	XXXXMEERYYPVIFPDERN
O88943	226	TWKL LGSVVYAHSKELVTA
O24819	116	SDDDLEFMVYPWPDYFGKA
P00924	191	EALRIGSEVYHNLKSLTKK
P00924	259	SSEFFKDGKYDLDFKNPNS
P04806	308	QAFEKMTSGYYLGELLRLV
P04806	309	AFEKMTSGYYLGELLRLVL
P04806	340	QDLSK LKQPYIMDTSYPAR
P04806	346	KOPYIMDTSYPARIEDDPF
P32178	234	ITPEYLVKIYKEIVIPITK
P35809	97	YYIVESYGSYDPSSAASHK
P00644	197	QGLAKVAYVYKPNNTHEQH
P00807	96	HINKDDIVAYSPILEKYVG
P0A0E3	6	XXXXMEQNSYVIIDETGIH
P0A0E3	37	KFDSDIQLEYNGKKVNLKS
P01006	38	APGDAPSALYAPSALVLTV
P01006	106	GEDVMCPMVYDPVLLTVDG
P15444	35	ICCGEELGCYFGTSETLRC
P00592	91	SCKFLVDNPYTESYSYSCS
P00592	145	EHKNLDTKKYCXXXXXXXXX
P01315	40	CGSHLVEALYLVCGERGFF
P01315	50	LVCGERGFFYTPKARREAE
P01315	101	QCCTSICSLYQLENYCNXX
P01315	106	ICSLYQLENYCNXXXXXXXXX
P02703	72	NSEC SAFTLYGVYYKCPCE
P02703	75	CSAFTLYGVYKPCP CERGL
P02703	76	SAFTLYGVYKPCP CERGLT
P09955	197	WVREAVLTYGYESHMTEF
P09955	306	IKAYLTIHSYSQMILYPYS
P09955	316	SQMILYPYSYDYKLPENNA
P09955	348	ATLYGTKYTYGPGATTIYP
P09955	356	TYGPGATTIYPAAGGSDDW
P09955	367	AAGGSDDWAYDQGIKYSFT
P09955	385	TFELRDKGRYGFILPESQI
P16276	71	PLTLSEKIVYGHLD DPANQ
P16276	151	RAKDINQEVYNFLATAGAK
P16276	472	GEKNTIVTSYNRNFTGRND

P61013	6	XXXXMDKVQYLTRSAIRRA
Q5SIY4	36	DEAEGGLGLAYEVFPFGGAA
P69687	140	VELIRGTGSYNRSSFESS
P06859	80	TGCNPKLGKTYTSWNNNGDI
P06859	82	CNPKLGKTYTSWNNNGDIVC
P06859	118	ICFRDNLDTYDRNKYWRYP
P11507	122	ENAIEALKEYEPENMGKVYR
P11507	130	EYEPENMGKVYRQDRKSVQR
P11507	294	GGSWIRGAIYFVKIAVALA
P11507	295	GSWIRGAIYFVKIAVALAV
P11507	497	SRDRKSMSVYCTPNKPSRT
P11507	586	LEDSANFIKYETNLTFVGC
P11507	753	AAVEEGRAIYNNMKQFIRY
P11507	990	ETLKFVARNYLEPGKECAQ

II. Negative dataset contains 7,669 samples

Uniprot ID	Site	Sequence
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P00781	170	QNTIGYPAKYDSVIAVGAV
P07999	2	XXXXXXXXMYKDLEGKVVV
P07999	38	TEKAKVVVNYSRKEDEANS
P07999	131	FLGSREAIKYFVENDIKGT
P07999	178	LMTETLALEYAPKGIRVNN
P07999	219	DVESMIPMGYIGEPPEEIAA
P07999	239	AWLASSEASYVTGITLFD
P14779	52	FEAPGRVTRYLSSQRLIKE
P14779	116	SFSQQAMKGYHAMMVDIAV
P14779	161	DTIGLCGFNYRFNSFYRDQ
P14779	167	GFNYRFNSFYRDQPHFIT
P14779	199	QRANPDDPAYDENKRQFQE
P14779	257	EPLDDENIRYQIITFLIAG
P14779	279	TSGLLSFALYFLVKNPHVL
P14779	306	RVLVDPVPSYKQVKQLKYV
P14779	314	SYKQVKQLKYVGMVLNEAL
P14779	346	KEDTVLGGEYPLEKGDDEL
P14779	430	HFD FEDHTNYELDIKETLT
P14779	487	AHNTPLLVLVYGSNMGTAE
P14779	537	GAVLIVTASYNGHPPDNAK
P14779	565	SADEVKGVRYSVFGCGDKN
P14779	579	CGDKNWATTYQKVP AFIDE
P14779	614	DASDDFEGTYEEWREHMWS
P14779	628	EHMWSDVAAYFNLDIENSE
P14779	695	EIELPKEASYQEGDHLGVI
P14779	708	DHLGVI PRNYEGIVNRVTA
P14779	753	TVSVEELLQYVELQDPVTR
P14779	790	LEALLEKQAYKEQVLAKRL
P14779	808	LTMLELLEKYPACEMKFSE
P14779	829	ALLPSIRPRYYSISSSPRV
P14779	830	LLPSIRPRYYSISSSPRVD
P14779	858	VVSGEAWSGYGEYKGIASN

P14779	861	GEAWSGYGEYKGIASNYLA
P14779	868	GEYKGIASNYLAELQEGDT
P14779	934	GQSLGEAHL YFGCRSPHED
P14779	944	FGCRSPHED YLYQEELENA
P14779	946	CRSPHED YLYQEELENAQS
P14779	975	SRMPNQPKTYVQHVMEQDG
P14779	998	ELLDQGAHFYICGDGSQMA
P14779	1018	AVEATLMKSYADVHQVSEA
P14779	1042	LQOLEEKGRYAKDVWAGXX
P68735	90	VESTTDALGYKHFRYAPVV
P68735	95	DALGYKHFRYAPVVNGVPI
P68735	120	VHVDKSDNVYAVNGELHNQ
P68735	183	KAIETKDGSYRLAYDVTIR
P68735	187	TKDGSYRLAYDVTIRYVEP
P68735	193	RLAYDVTIRYVEPEPANWE
P68735	247	LNISYEGGKYVLRDLKPT
P68735	263	KPTGTQIITYDLQNRQSRL
P68735	297	SQRAAVDAHYNLGKVYDYF
P68735	303	DAHYNLGKVYDYFYSNFKR
P68735	305	HYNLGKVYDYFYSNFKRNS
P68735	307	NLGKVYDYFYSNFKRNSYD
P68735	315	FYSNFKRNSYDNKGSKIVS
P68735	328	GSKIVSSVHYGTQYNNAAW
P68735	332	VSSVHYGTQYNNAAWTGDQ
P68735	344	AAWTGDQMIYGDGDGSFFS
P68735	396	NESFSDVFGYFNDTEDWDI
P68735	425	LRSLSNPTKYNQPDNYANY
P68735	431	PTKYNQPDNYANYRNLPT
P68735	434	YNQPDNYANYRNLPTDEG
P68735	445	NLPNTDEGDYGGVHTNSGI
P68735	460	NSGIPNKAAYNTITKLGVS
P68735	475	LGVSKSQQIYYRALTTYLT
P68735	476	GVSKSQQIYYRALTTYLTP
P68735	482	QIYYRALTTYLTPSSTFKD
P68735	504	ALIQSARDLYGSTDAAKVE
P00366	2	XXXXXXXXMYRYLGEALLL
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P00366	135	DGSWEVIEGYRAQHSQHRT
P00366	152	RTPCKGGIRYSTDVSDEV
P00366	170	VKALASLMTYKCAVVDVPF
P00366	193	AGVKINPKNYTDNELEKIT
P00366	240	REMSWIADTYASTIGHYDI
P00366	247	DTYASTIGHYDINAHACVT
P00366	289	IENFINEASYMSILGMTPG
P00366	367	ILGFPAKAIYEGSILEVDC
P00366	429	RNIMVIPDL YLNAGGVTVS
P00366	439	LNAGGVTVSYFEWLNNLNH
P00366	451	WLNNLNHVS YGRLTFKYER
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P00366	539	LGLDLRTAAYVNAIEKVFR
P00730	86	VFLEAHGIRYRIMIEDVQS

P00730	119	RARSTNTFNYATYHTLDEI
P00730	122	STNTFNYATYHTLDEIYDF
P00730	129	ATYHTLDEIYDFMDLLVAE
P00730	152	VSKLQIGRSYEGRPYVVLK
P00730	158	GRSYEGRPYVVLKFSTGGS
P00730	200	WFAKKFTEDYGQDPSFTAI
P00730	275	ASSSPCSEYHGKYANSEV
P00730	279	PCSEYHGKYANSEVEVKS
P00730	314	IHSYSQLLLYPYGYTTQSI
P00730	316	SYSQLLLYPYGYTTQSIPD
P00730	318	SQLLLYPYGYTTQSIPDKT
P00730	344	SAVEALKSLYGTSYKYGSI
P00730	348	ALKSLYGTSYKYGSIITTI
P00730	350	KSLYGTSYKYGSIITTIYQ
P00730	369	ASGGSIDWSYNQGIKYSFT
P00730	375	DWSYNQGIKYSFTFELRDT
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P00766	228	TCSTSTPGVYARVTALVNW
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P01180	166	PAEPAQPGVYXXXXXXXXXX
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P02663	110	NQFYQKFPQYLQYLYQGPI
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P02663	115	KFPQYLQYLYQGPIVLNPW
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P02663	218	IQPKTKVIPYVRYLXXXXXX
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P02666	129	KHKEMPFKYPVEPFTE
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P11151	161	PLGNVHLLGYSLGAHAAGI
P11151	236	QKPVGHVDIYPNGGTFQPG
P11151	292	LNEENPSKAYRCNSKEAFE
P11151	332	VRAKRSSKMYLKT
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P11151	370	TNQAFEISLYGTVAESEN
P11151	392	LPEVSTNKYSFLLYTEVD
P11151	397	TNKTYSFLLYTEVDIGELL
P11151	417	LKLKWI
P17694	126	HRGTEK

P17694	129	TEKLI EYKTYLQALPYFDR
P17694	135	YKTYLQALPYFDRLDYVSM
P17694	141	ALPYFDRLDYVSMCNEQA
P17694	151	VSMCNEQAYSLAVEKLLN
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P17694	226	VSGARMHAAYVRPGGVHQD
P17694	245	LPLGLMDDIYEF SKNFSLR
P17694	286	IVTAEDALNYGFSGVMLRG
P17694	308	QWDLRKTQPYDVYDQVEFD
P17694	311	LRKTQPYDVYDQVEFDVPI
P17694	327	VPIGSRGDCYDRYL CRVEE
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P17694	385	ESLIH HFKLYTEGYQVPPG
P17694	389	H HFKLYTEGYQVPPGATYT
P17694	397	GYQVPPGATYTAIEAPKGE
P17694	410	EAPKGEFGVYLVSDGSSRP
P17694	420	LVSDGSSRPYRCKIKAPGF
P23709	66	HKQLSAFGEYVAEILPKYV
P23709	74	EYVAEILPKYVQOVQVSCF
P23709	132	TRQNRFEIVYNLLSLRFNS
P23709	148	FNSRIRVKTYTDELTPIES
P23709	162	TPIESSVPVYKAANWYERE
P23709	168	VPVYKAANWYEREIWD MFG
P23709	193	PDLRRILTDYGFEGHPFRK
P23709	209	FRKDFPLSGYVELRYDDEV
P23709	214	PLSGYVELRYDDEVKRVVA
P31039	125	EEDNWRWHFYDTVKGSDWL
P31039	157	PASVVELENYGMPFSRTED
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P31039	206	TGHSL LHTLYGRSLRYDTS
P31039	212	HTLYGRSLRYDTSYFVEYF
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P31039	605	EDFKERVDEYDYSKPIQGQ
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P48305	70	EDPALVRWTYARSANIYPN
P48305	77	WTYARSANIYPNFRPNTKT
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P48305	103	GIGPLVFWYVVFKTDRDRK
P61625	24	PFVFAPAWSYNLDVRHVQN
P61625	45	FPLAGRHFYRVLQVGNGV
P61625	69	SEGNSMGNLYQCQPETGDC
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P61625	127	QNIYLSGLCYLIHENLRGP
P61625	144	GPVLOGHPGYQECIKGNVD
P61625	188	VMKKLSNSSYQFAAVQFST
P61625	198	QFAAVQFSTYFRTEFTFLD
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P61625	236	LTNTFGAINVVAKEVFRPD
P61625	279	IDAAKDIIRYIIGIGKNFK
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P61625	400	PLTVESRAGYLGYTVTWLP
P61625	403	VESRAGYLGYTVTWLP SRG
P61625	424	SLLATGAPRYQHVG RVLLF
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P23246	320	DEFKRLFAYGEPGEVFIN
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Q3MHD2	103	EKEEKLSQAYAISAGVSLE
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Q52LJ0	218	RINDALSCEYECRRRMLMK

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014744	468	DDGVSIPGEY TSFLAPISS
014744	481	LAPISSSKLY NEVRACREK
014744	502	DPEAQFEMPY VVRLHNFHQ
014744	535	RDP MIDNNRY CTLEFPVEV
014744	554	NTVLHGFAGY FETVLYQDI
014744	560	FAGYFETVLY QDITLSIRP
014744	613	RCSNSKKVWY EWAVTAPVC
014744	633	AIHNPTGRSY TIGLXXXXX
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014976	204	ATTISHY PDYSWSAQRAL
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014976	276	AKLRIVNGKY SIPPHDTQY
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014976	403	SKVIQSVANYAKGDLDISY
014976	412	YAKGDLDISYITSRIAVMS
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014976	1267	VAPEQVKKHYRRAVLAVHP
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014979	365	QGYGNYSAYGGDQNYSGY
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014979	374	YGGDQNYSGYGGYDYTGYN
014979	377	DQNYSGYGGYDYTGYNYGN
014979	379	NYSYGGYDYTGYNYGNYG
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014979	384	GGYDYTGYNYGNYGYGQGY
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014979	389	TGYNYGNYGYGQGYADYSG
014979	393	YGYNYGYGQGYADYSGQOST
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043143	177	TQIPQWCVEYMRSPLGPKR
043143	219	DVMLGQEVGYSIRFEDCSS
043143	235	CSSAKTILKYMTDGMLLRE
043143	254	AMNDPLLERYGVIILDEAH
043143	303	TLDAGKFQIYFDNCPLLT

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043143	447	DPGFAKQKVYNPRIRVESL
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043143	490	CFRLYTEKAYKTEMQDNTY
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043143	645	QNHESVQWCYDNFINYRSL
043143	651	QWCYDNFINYRSLMSADNV
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043143	686	STDFTSRDYINIRKALVT
043143	697	NIRKALVTGYFMQVAHLER
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043252	518	ARMVAGANFYIVGRDPAGM
043252	565	EIVPFRVAAYNKKKKRMDY
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043252	575	NKKKKRMDYDSEHHEDFE
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043290	712	GYKPDVKIEYVDETGRKLT
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043615	421	DPDKVLRMLYVWALCRDQD
043615	435	CRDQDELNPYAAWRLLDIS
043660	52	KMAIKLRNEYGPVLHMPTS
043660	82	ATDSYVHKQYPANQGQVEVE
043660	92	PANQGQVEVEYFVAGTHPYP
043660	100	EYFVAGTHPYPPGPGVALT
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043660	197	PQWHPPWKLYRVISGHLGW
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043660	284	LEYNKVIRHYHGHL SAVYG
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043660	445	MHLWDWRTGYNFQRVHAAV
043660	489	AEADKTIKVYREDDTATEE
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043684	53	VPANSMRLKYQHTGAVLDC
043684	65	TGAVLDCAFYDP THAWSGG
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043719	353	AQAWDGT TDYQVEETS RER
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043765	158	ERAICIDPAY SKAYGRMGL
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043776	182	LSTESSVAVY GMLNLTPKG
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P14094	112	LNIIRFLEKYKDSAQKDDM
P14094	167	NCSGLNDDS YGYREGKPCI
P14094	169	SGLNDDSYGYREGKPCII
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Q8BUE4	132	SCQQAAIQAYEDMVKQIQR
Q8BUE4	165	EMAAEIKTEYPEKEVTLIH
Q8BUE4	220	NLEELPRNEYREYIKVETD
Q8BUE4	223	ELPRNEYREYIKVETDKGT
Q8BUE4	277	VNEFLQVEGYSNIYAIGDC
Q8BUE4	281	LQVEGYSNIYAIGDCADTK
Q8BUE4	296	ADTKPKMAYHAGLHANVA
Q8BUE4	321	SMKQRPLKAYKPGALTFL
Q8BUE4	345	DGVGQISGFYVGRMLVRLA
Q8BVE3	36	RANKVNWQSYLQGMISAE
Q8BVE3	92	HISKEQTVQYILTMVDDML
Q8BVE3	114	HQRVSIFFDYAKRSKSTAW
Q8BVE3	125	KRSKSTAWPYFLPMLNRQD
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Q8BVE3	164	LMEGSDLNYFNIWIKTQLS
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Q8BVE3	214	LQLMLRVNEYRFAWVEADG
Q8BVE3	241	SNKCGFQLQYQMIFSIWLL

Q8BVE3	263	PQMCEHLRRYNIIPVLSDI
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Q8BVE3	326	QLENLEQQKYDDEDISEDI
Q8BVE3	355	VQDLSSFDEYSSELKSGRL
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Q8BVE3	450	MHHEDQQVRYNALLAVQKL
Q8BVE3	466	QKLMVHNWEYLGKQLQSEQ
Q8CJG0	22	APTTSPIPGYAFKPPRPD
Q8CJG0	56	EMDIPKIDIYHYELDIKPE
Q8CJG0	58	DIPKIDIYHYELDIKPEKC
Q8CJG0	102	PVFDGRKNLYTAMPLPIGR
Q8CJG0	175	VMRHLPSMRYTPVGRSFFT
Q8CJG0	226	NIDVSATAFYKAQPVIEFV
Q8CJG0	280	THCGQMKRKYRVCNVTRRP
Q8CJG0	312	QTVECTVAQYFKDRHKLVL
Q8CJG0	323	KDRHKLVLRYPHLPCLQVG
Q8CJG0	339	QVGQEQKHTYLPLEVCNIV
Q8CJG0	394	RSASFNTDPYVREFGIMVK
Q8CJG0	421	RVLQPPSILYGGRNKAIAT
Q8CJG0	495	IQGQPCFCKYAQGADSVEP
Q8CJG0	513	PMFRHLKNTYAGLQLVVI
Q8CJG0	530	VILPGKTPVYAEVKRVGDT
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Q8CJG0	655	MVRELLIQFYKSTRFKPTR
Q8CJG0	668	RFKPTRIIFYRDGVSEGQF
Q8CJG0	699	EACIKLEKDYQPGITFIVV
Q8CJG0	750	ITHPTEFDYLCSHAGIQG
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Q8QZT1	211	NISRQEQDTYALSSYTRSK
Q8QZT1	216	EQDTYALSSYTRSKEAWDA
Q8QZT1	253	DVVVKEDEEYKRVDVFSKVP
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Q8R5C5	92	WDMERIWQYVYSKDQLQT
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Q8R5C5	223	VRTIKERACYLSINPQKDE
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Q9CQV8	130	LKMKGDYFRYLSEVASGEN
Q9CQV8	151	TTVSNSQOAYQEAFEISKK
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Q9CZC8	207	DEEHPELRTYAQSQGWWTG
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B2RSH2	146	QACFNRSREYQLNDSAAYY
B2RSH2	154	EYQLNDSAAYYLNLDLDRIA
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B2RSH2	230	IIFCVALSDDLVLAEDEE
B2RSH2	287	IKKSPLTICYPEYAGSNTY
B2RSH2	290	SPLTICYPEYAGSNTYEEA
B2RSH2	296	YPEYAGSNTYEEAAAYIQC
B2RSH2	302	SNTYEEAAAYIQCFEDLN
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035633	230	YVVVSGNLMYNSFPGLPVS
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P16276	306	FPYNHRMKKYLSKTGRADI
P16276	334	HLVPDPGCHYDQVIEINLS
P16276	390	LIGSCTNSSYEDMGRSAAV
P16276	432	IRATIERDGYAQVLRDVGG
P16276	544	AEFDPGQDTYQHPPKDSSG
P16276	649	FGPVPDTARYYKQHGIRWV
P16276	650	GPVPDTARYYKQHGIRWV
P16276	665	RWVVIKDENYGEKSSREHR
P16276	715	PLTFADPADYNKIHPVDKL
Q5SIY4	139	IVRELTGGIYFGEPRGMSE
Q5SIY4	157	EAEAWNTERYSKPEVERVA
Q5SIY4	206	KTVVEVGRGYPDVALEHQY
Q5SIY4	215	YPDVALEHQYVDAMAMHLV
P69687	3	XXXXXXXXMSYSITTPSQFV
P69687	71	RFPDSDFKVYRYNAVLDPL
P69687	73	PDSDFKVYRYNAVLDPLVT
P06859	37	VVKKSGILSYSAYGCYCGW
P06859	40	KSGILSYSAYGCYCGWGGR
P06859	43	ILSYSAYGCYCGWGGRGKP
P06859	67	RCCFVHDCCYGKVTGCNPK
P06859	123	NLDTYDRNKYWRYPASNCQ
P06859	126	TYDRNKYWRYPASNCQEDS
P11507	389	NEFTITGSTYAPIGEVQKD
P11507	407	DDKPVKCHQYDGLVELATI
P11507	427	ALCNSALDYNEAKGVYEK
P11507	434	LDYNEAKGVYEKVGEATET
P11507	762	YNNMKQFIRYLISSNVGEV
P11507	836	LISGWLFFRYLAIGCYVGA
P11507	842	FFRYLAIGCYVGAATVGAA
P11507	867	ADGGPRVSFYQLSHFLQCK
P11507	894	VDCAIFESPYPMTMALSVL
P11507	948	SMSLHFLILYVEPLPLIFQ
P11507	1031	LIMPLVVWVYSTDTNFSDM
