

Online Supporting Information S4. Benchmark dataset used for studying the Lys-ubiquitination. It contains 7,855 samples, of which 659 are positive and 7,196 negative. These data were extracted from UniProtKB/Swiss-Prot database (version UniProt release 2013_06).

(A) List of 659 positive Lys-methylation sites and sequence

Sequence #	Protein ID	Site	Sequences
1	P20039	254	IYFRNQK GH SGLQ
2	P08195	147	NGLVKIK V AEDEA
3	P08908	334	NAEAKR K MALARE
4	Q8NE71	573	STKQAE K QTKREAL
5	Q8NE71	582	KEALTR K QQKCR
6	P50544	332	EVGDGF K VAVNIL
7	P93821	16	NSQSER K SLEETK
8	Q9UKV3	5	MMMWR R KHPRTSG
9	Q07622	184	SRILQ E KVYRTEE
10	Q99KI0	144	KDLRRA K DINQEV
11	P52910	506	YMDTYL K PYPGHY
12	O43707	378	FMPSEG K MVSDIN
13	Q16186	34	AGKMSL K GTTVTP
14	P48962	10	QALSFL K DFLAGG
15	Q84VQ0	464	LSPI K GKWNFMRK
16	O95831	255	SQITY E KCLIATG
17	P38080	1008	TAITEN K RHSTGH
18	P38080	1046	YRHSD K DNSSSI
19	Q9SLK6	625	LLDFT S KRKRMSA
20	Q9SLK6	717	RDEML E KVSDMME
21	P54115	3	MMMM M TKLHFDTA
22	P10275	845	DR I IACKRKNPTS
23	P10275	847	I I ACKRKNPTS
24	Q12955	4338	TSPAD G KPRLSLH
25	Q9Y2G4	40	ARVAV T KHGRTPL
26	Q69ZU8	40	AKVAV T KHGRTPL
27	P36404	71	WDVGG Q KSLRSYW
28	Q06408	588	LIQCP S KLALKLE
29	Q9NR48	402	AMGLV N KDIGKKL
30	Q9NR48	406	VNKDIG K KLMSCP
31	O55143	143	VQRI K AKDIVPGD
32	Q8NBU5	46	AIDP T RKQKVEAQ
33	P35193	213	NFF T ELKTVKQLE
34	P35193	216	TELKT V KQLEDVF
35	Q12691	196	ANLVF G KKEEETSV
36	Q9D3D9	136	ARANL E KAQSELS
37	Q8WXE1	96	LLDG M SKNPSGKN
38	Q99728	423	LPNMA V KRNHRGE
39	Q9UIF8	1538	GSSG P GKFYSPLP
40	Q8NFC6	2981	SDP V EDKKEQESD
41	Q8NFC6	2982	DP V EDKKEQESDE
42	P55061	7	MN I FDRKINFDAL
43	P38356	312	VKKL E KYLNQSQ
44	Q10589	18	PMED G DKRCKLLL
45	O43684	216	PSPE V QKKKYAFK
46	A2RUR9	955	RLHD K MKVDMSGL
47	Q9Y4F5	289	IKDH I TKFSLRQR

48	Q96514	82	VVVISSKEGAEAA
49	Q9UKL3	92	QMKELMKKFKEIQ
50	Q9UKL3	93	MKELMKKFKEIQT
51	O22203	172	KGLQLRKYLGAVA
52	O22203	189	TRLAFGKRFMNAE
53	P62157	22	AFSLFDKDGDTI
54	Q96M89	295	ASEENRKIDIQAK
55	Q8IX12	637	WSKLDPKTMKVND
56	P25322	269	QQNVDPKATEEEG
57	O14618	76	GRQAVLKGMGSGQ
58	O14618	189	MEDEQLKVWDVIG
59	O14618	216	GGHPLSKITGNSG
60	O14618	241	GLFQNPKQICSCD
61	Q12834	485	RRREREKASAAKS
62	Q12834	490	EKASAAKSSLIHQ
63	P25694	594	ELDSIAKARGGSL
64	P25694	673	LNAQLRKTPLEPG
65	P06493	89	LSMDLKKYLD SIP
66	Q5TB80	908	NPSIRQKIRLKDK
67	Q5TB80	908	GKDEDAKKSRLTM
68	Q02224	1937	MLSKEHKETVDKL
69	P13569	688	TKKQSFKQTGEFG
70	P32657	1144	EDLKYLKNLINSN
71	Q9UNE7	2	MMMMMMKGKEEKE
72	Q9UNE7	22	GGGSPEKSPSAQE
73	Q9UNE7	221	FSQVDEKRKKRDI
74	Q9UNE7	255	GITYDRKDIEEHL
75	Q9WUD1	23	GGGSPDKSPSAQE
76	O14757	436	LLEMDDKILVDFR
77	O14757	436	DIVSSQKIWL PAT
78	Q9Y3E7	179	TAGALGKAPSKVT
79	P29465	136	AEDEFDKDGDVDN
80	P08679	354	RYMAQRKFAMDHF
81	P08679	385	VLTEHGKTKNPWP
82	Q9D5U8	73	ESPASIKEIKAET
83	Q9D5U8	83	AETPQPKDRPGVQ
84	Q01955	1414	KGNKGSKGEPGPA
85	Q01955	1414	KGNKGSKGEPESL
86	P0CX12	18	VDVLSFKQLESQK
87	P0CX12	205	KLFNTEKSWSPVG
88	P43542	205	KLFNSEKSWSPVG
89	P32798	301	LSCKASKILLQAT
90	P97784	11	AVHWFRKGLRLHD
91	P97784	107	DSEPFGERDAAI
92	P97784	159	FQTLVSKMEPLEM
93	P97784	329	NPEALAKWAEGR T
94	P97784	485	LNIERMKQIYQQL
95	Q9R194	241	ALARLDKHLERKA
96	Q9R194	347	NPEALAKWAEGKT
97	Q9R194	474	APESVQKAAKCI I
98	Q9ZQB9	617	LVEKDEKTTKHQR
99	Q9ZQB9	620	KDEKTTKHQRGVS
100	Q12734	841	HKIPQDKNHNEVN
101	P89105	196	AKLLYQKKNYMAS
102	P57076	210	LSDYVGKNEKTKI
103	Q08412	76	TPAEDAKEEEEEH
104	Q08412	396	AVSRNKKNPDEDE
105	Q13616	708	NIEEDRKLIIQAA

106	Q13619	33	LAAAPAKPGGAGG
107	Q13619	33	DSVLFLKKINTCW
108	P43023	70	HLRIRTKPFAGD
109	P40087	171	PDDPDNKKRIAEL
110	P40087	257	RGVGTGKIIGRIH
111	Q39017	491	TVLDRWKVSILNQ
112	Q39017	500	ILNQOGKQLQPPK
113	P07262	325	VSGEEAKALVAQG
114	P07262	371	VWYGPPKAANLGG
115	O60610	486	KAAELEKKLDSEL
116	Q9NSV4	139	MNLNEDKKAPLRE
117	P39976	17	TAEAYPKVKRNP
118	P38823	150	LKRRMDKHGLFSI
119	P38823	204	VREAIKIPDQYH
120	P38823	217	PVVFKSKVISRTH
121	P38823	237	QGNWFLKDVKSSS
122	P38823	240	WFLKDVKSSSGTF
123	P38823	260	SASTTSKDYLLHD
124	P38823	300	NKSWKLKANAFNK
125	P38823	306	KANAFNKEALSRI
126	P38823	313	EALSRIKNLQKLT
127	P38823	317	RIKNLQKLTGLE
128	P53924	211	NSQEMYKNLRHLI
129	P53924	256	VTLKQRKDKHGLF
130	P53924	258	LKQRKDKHGLFSI
131	P53924	288	FEPPIIRKAGPGSQ
132	P53924	310	VRDAISKIPEQYH
133	P53924	333	RTHGCFKVDSQGN
134	P53924	343	QGNWYIKDVKSSS
135	P53924	346	WYIKDVKSSSGTF
136	P53924	366	PASSLSKDTPLRD
137	P53924	406	NRSWKLKANSFNK
138	P53924	412	KANSFNKEALQRL
139	P53924	423	RLQNLQKLTGIE
140	P18858	422	GSASTAKKIDI IK
141	P06746	41	KYNAYRKAASVIA
142	P06746	61	SGAEAKKLPVGT
143	P06746	81	EFLATGKLRKLEK
144	P01903	244	IIKGVRSNAER
145	F4IBE4	121	LSNRISKVIRDMQ
146	Q03001	5470	EPADKVKILKQLS
147	P38167	577	AVSTANKPIYINR
148	P38167	651	QTDPVAKDPYNPY
149	P38167	712	DDSDSKGNPKER
150	P38167	794	SHEENEKPVYDPK
151	P38167	807	FHQTI IKSNSGLP
152	P38167	1024	RFNNLDKLLSTPS
153	P0DH99	438	KDPTGAKVTKAAV
154	P0DH99	441	TGAKVTKAAVKKG
155	P00533	716	TEFKKIKVLGSGA
156	P00533	737	WIPEGEKVKIPVA
157	P00533	754	REATSPKANKEIL
158	P00533	867	LLGAEKEYHAEG
159	P00533	929	ISSILEKGERLPQ
160	P00533	970	LIIEFSKMARDPQ
161	Q9LD55	61	DLCVDLKRGRFAK
162	Q13347	282	EEFGRVKGHFGPI
163	Q02908	453	SYEDPKKDILIGL

164	P14351	14	QQWIIWKKMKNKAH
165	P14351	15	QWIIWKKMKNKAHE
166	P14351	18	IWKKMKNKAHEALQ
167	P14351	34	TVTEQQKEQIILD
168	P14351	53	QPTRRDKFRYLLY
169	P14753	280	RRTLQQKIWPGIP
170	P14753	452	PTPPHLKYLYLVV
171	P32476	284	KVPADIKSWMIKD
172	P32476	311	EAVSQGKFRAMPN
173	P32353	324	DSLFDPKLRDAKE
174	P32353	344	EVEHFIKEVEGDD
175	P54781	164	AHTDYRKSLNGLF
176	P54781	198	KFVRLSKENNYEP
177	P38748	369	QNEVDGKLVEVGG
178	P38748	410	KSNSNKKDGELAA
179	Q0WPQ2	751	INGVVRKPVVLR
180	Q92817	1467	IMEEVVKLEKDPD
181	P38261	219	QVQEEVKLNINKS
182	Q5HYJ3	225	KPKLESKPSNGDS
183	Q5HYJ3	225	KPKLESKPSNGDR
184	Q9BXW9	561	MHLVIRKQLSSTV
185	Q9NVI1	523	LILVLRKAMFANQ
186	P38631	910	NENEAEKEDALKS
187	P40989	806	PSEIEGKRTLRA
188	P01100	113	SRAGVVKTMTGGR
189	P38297	398	LSPETYKRAADFV
190	P38297	464	KKRSLSKLLPAKT
191	P19145	76	NLSEAEKVAIITA
192	P31644	355	WAWDGGKALEAAK
193	P47870	45	TVDRLLKGYDIRL
194	P10071	773	RNPAGTKWMEHVK
195	P10071	779	KWMEHVKLERLKQ
196	P10071	784	VKLERLKQVNGMF
197	P10071	800	NPILPPKAPAVSP
198	P32288	324	IPRSVAKEGYGYF
199	P37303	228	VLVGNLKFVKKAT
200	P63092	300	QDLLAEKVLGKS
201	P48813	34	VSHYEMKEIQPKE
202	P48813	41	EIQPKEKQIGSIE
203	P48813	132	ITVDGIKQSPQEQ
204	Q3T8J9	534	ADDEDWKMWLGGL
205	Q5T848	774	QCSKEDKEGADHG
206	P08539	165	QSTGRAKAAFDED
207	Q8N442	102	DKTKNNKQVLDKL
208	P40531	305	AEEPEAKPEVAEE
209	P40531	313	EVAEEEKPQTAIS
210	P26569	156	VAKPKGKVAAAVA
211	P26569	165	AAVAPAKAKAAAK
212	P16403	17	AAPPAAEKAPVKKK
213	P16403	206	PKVVKPKKAAPKK
214	Q96QV6	14	GGKARAKSKSRSS
215	Q96QV6	16	KARAKSKSRSSRA
216	Q96QV6	120	AVLLPKKTESHHH
217	P04908	14	GGKARAKAKTRSS
218	P04908	16	KARAKAKTRSSRA
219	P04908	120	AVLLPKKTESHHK
220	Q93077	14	GGKARAKAKSRSS
221	Q93077	16	KARAKAKSRSSRA

222	Q8CGP7	120	AVLLPKKTETHHK
223	Q8IUE6	120	AVLLPKKTESHKP
224	Q16777	120	AVLLPKKTESHKA
225	P16104	120	AVLLPKKTSATVG
226	O75367	116	HPELLAKKRGSKG
227	O75367	117	PELLAKKRGSKGK
228	P0C0S5	122	KSLIGKKGQQKTV
229	P02264	120	AVLLPKKTEKAVK
230	Q96A08	36	KRKRTRKESYSIY
231	Q96A08	122	GTKAVTKYTSSKK
232	P33778	35	KRKRSRKESYSIY
233	P62807	35	KRKRSRKESYSVY
234	P06899	121	GTKAVTKYTSACK
235	Q9LQQ4	144	GTKAVTKFTSSSS
236	A3AGM4	148	GTKAVTKFTSNNN
237	P04913	120	GTKSVTKYSSSAQ
238	P02293	124	GTRAVTKYSSSTQ
239	Q5QNW6	121	GTKAVTKYTSSKL
240	Q8N257	35	KRKRGRKESYSIY
241	P62805	92	DVVYALKRQGRTL
242	P51610	105	GMVEYGKYSNDLY
243	P51610	163	NDSEDPKNNIPRY
244	P51610	244	DTLTWNKPSLSGV
245	P51610	363	WYLETEKPPPPAR
246	P51610	1807	PSKAPMKKENQWF
247	P51610	1808	SKAPMKKENQWFD
248	O15379	44	HYGLYKKMIVFKP
249	O15379	44	LHYGLYKKMIVFK
250	Q9Y2N7	467	RLFTSGKDTEAVE
251	Q9Y2N7	570	PMAGARKRTLAQS
252	P00347	89	LRQLGSKYILGIA
253	P00347	248	LEEEENKPNPVTQ
254	P09429	112	CSEYRPKIKGEHP
255	P41235	234	LLLGATKRSMVFK
256	P41235	307	GLSDPGKIKRLRS
257	O60506	123	KGPDEAKIKALLE
258	P31539	620	GLSGSGKTELAKK
259	P10591	521	MVAEAEKFKEEDE
260	P10591	536	SQRIASKNQLESI
261	P10592	556	ISEAGDKLEQADK
262	O65719	457	GERARTKDNNLLG
263	P40325	3	MMMMSKDTHDDE
264	P40325	18	SYEDVIKEEERLQ
265	P57058	483	NTKALLKDRKASK
266	P09629	191	FQNRMRKWKKENK
267	P09629	193	NRRMKWKKENKTA
268	P32467	45	AERDDMKDFDENH
269	P38695	61	SHEGPPKDELEEL
270	P39003	560	EMAHDDKPLYKRM
271	P39004	40	AERDEIKAYGEGE
272	P39004	318	GELFSSKTKVLQR
273	P39004	560	EMTHDDKPLYKRM
274	O14602	88	RDYQDNKADVILK
275	Q01628	24	PNYEMLKEEHEVA
276	Q01628	83	AFAYSVKSRDRKM
277	Q01628	88	VKSRDRKMVGDTV
278	Q01628	104	AYASTAKCLNIWA
279	P08069	1168	ETDYRKGKGLL

280	P08069	1171	YYRKGGKGLLPVR
281	P25963	22	PRDGLKKERLLDD
282	Q9Z1E3	21	GPRDGLKKERLVD
283	Q9Z1E3	22	PRDGLKKERLVDD
284	O14920	163	EQRLIHKIIDLGY
285	Q14974	206	NSLEFTKANFDKE
286	Q14974	211	TKANFDKESERHF
287	Q6PI98	21	GIVRNSKKRPASP
288	Q6PI98	22	IVRNSKKRPASPS
289	Q6PI98	41	GGYGASKKKKASA
290	O15503	156	HLGEPHKFKREWA
291	O15503	158	GEPHKFKREWASV
292	O80560	946	I IKTNEKVRALLN
293	Q13568	411	DRKPREKKLITVQ
294	Q13568	412	RKPREKKLITVQV
295	P56477	410	DVKPREKKLITVQ
296	P56477	411	VKPREKKLITVQV
297	P29994	916	TKGEENKGSNVMR
298	P29994	962	KQAEPEKEDIMVM
299	P29994	1572	SHNIVQKTAMNWR
300	P29994	1772	SPGGPSKPGGGGG
301	P29994	1885	TSDLGNKKKDDEV
302	P29994	1886	SDLGNKKKDDEV
303	P29994	1887	DLGNKKKDDEVDR
304	P29994	1902	PSRKKAKEPTTQI
305	P29994	1925	ASAATRKAFTTFR
306	P29994	2119	LYNMRPKELVEVI
307	P29994	2258	NEMNWQKKLRAQP
308	P29994	1885	DAPSRKKAKEPTT
309	P29994	2258	EMNWQKKLRAQPV
310	P29994	2258	AFFYPFKGVRRGT
311	P30605	573	ARVHELKYEPTQE
312	P36035	9	SSITDEKISGEQQ
313	P36035	338	ILSDAVKANGGEP
314	Q8NCM2	785	RDAMELKPNGGAD
315	Q15058	275	KFGSLEKRTPTKC
316	Q7M6Z4	1084	SRQNSLKASFQNL
317	Q38997	43	SILPNYKLGRTL
318	O43474	32	GPAGREKTLRQAG
319	Q15349	630	ARIGSGKYALSGG
320	Q86UP2	309	CVVDLLKEKSGVI
321	Q01650	19	APAAEEKEEAREK
322	Q01650	30	EKMLAAKSADGSA
323	Q12502	486	EMKSGWKTDFDNN
324	Q5VZK9	593	GAKMLAKALQINT
325	O75581	1403	MLCPRMKGDGETM
326	P53281	41	NSKLPEKWDGNQR
327	P53281	79	SLKTGDKIQVLEK
328	Q9HCC9	87	PRDFCVKFPEEIR
329	O22042	108	APSSASKEKTQGH
330	O22042	110	SSASKEKTQGHIR
331	Q3KQU3	439	RERSLKKRQSLPA
332	Q07820	5	MMMFGLKRNAVIG
333	Q07820	40	RLLATEKEASARR
334	Q07820	136	EPEPLGKRPAVLP
335	Q07820	194	EQATGAKDTKPMG
336	Q07820	197	TGAKDTKPMGRSG
337	Q7L590	627	PATMTPKLGKRVL

338	P93819	119	QAAALEKHAAPNC
339	Q9SJL6	113	RKMLEAKERADLL
340	O50008	406	KAAAALKGS DHRR
341	P19358	77	I VRDTIKKIGYDD
342	P19358	78	VRDTIKKIGYDDS
343	P19358	86	GYDDSAKGF DYKT
344	Q03164	216	IKKKDSKSIEKKR
345	Q03164	220	DSKSIEKKRGRPP
346	Q03164	221	SKSIEKKRGRPPT
347	P53045	96	TKIPSAKEQLYCL
348	O75081	535	RALAEAKRQASED
349	Q9Y623	1813	LALKGGKKQIQKL
350	Q02566	206	AIGDRSKKENPNA
351	Q02566	207	IGDRSKKENPNAN
352	Q02566	214	ENPNANKGTLEDQ
353	Q02566	1281	F TTQRAKLQTENG
354	Q02566	1539	KQLEVEKLELQSA
355	Q02566	1571	LEFNQIKAEIERK
356	Q91Z83	207	IGDRSKKDQTPGK
357	Q91Z83	213	KDQTPGKGTLEDQ
358	Q91Z83	1531	ELEKIRKQLEAEK
359	Q91Z83	1537	KQLEAEKLELQSA
360	Q9LR74	101	DGKKEIKDGHMQK
361	P16603	666	GILSRGKSITTDE
362	P15531	100	TNPADSKPGTIRG
363	Q9Y6K9	111	ERLGLKLDLKRQ
364	Q9Y6K9	139	QQMAEDKASVKAQ
365	Q9Y6K9	143	EDKASVKAQVTSL
366	Q9Y6K9	226	ASEEKRKLAQLQV
367	Q9Y6K9	246	EYDNHIKSSVVG S
368	Q9Y6K9	264	MQLEDLKQQLQQA
369	Q9Y6K9	277	EEALVAKQEVIDK
370	Q9Y6K9	283	KQEVIDKLKEEAE
371	Q9Y6K9	285	EVIDKLKEEAEQH
372	Q9Y6K9	292	EEAEQHKIVMETV
373	Q9Y6K9	302	ETVPVLKAQADIY
374	Q9Y6K9	309	AQADIYKADFQAE
375	Q9Y6K9	321	ERQAREKLAEKKE
376	Q9Y6K9	325	REKLAEKKELLQE
377	Q9Y6K9	326	EKLAEKKELLQEQ
378	Q9Y6K9	399	PDFCCPKCQYQAP
379	Q9Y6K9	292	QAASEEKRKLAQL
380	O88522	111	ERLSLEKLDLRSQ
381	O88522	226	ASEEKRKLAQLQA
382	O88522	246	DYDSHIKSSKGMQ
383	O88522	270	EEALVAKQELIDK
384	O88522	276	KQELIDKLKEEAE
385	O88522	278	ELIDKLKEEAEQH
386	O88522	314	ERHAREKLVEKKE
387	O88522	318	REKLVEKKEYLQE
388	O88522	319	EKLVEKKEYLQEQ
389	Q00653	855	GPETRDKLPSTAE
390	Q00653	855	GPETRDKLPSTEV
391	P25208	140	LKLYLQKFREAMK
392	Q39161	103	EELDSEKSSKDDI
393	P30415	1249	STVPEVKPQGLRI
394	P53253	10	QFTNQKVVSHLQS
395	Q01705	1749	GVLLSRKRRRQHG

396	Q01705	1749	WFPEGFKVSEASK
397	Q923B3	15	WPHESVKFEDVSL
398	P53370	76	DAAAFQKGLQAAV
399	Q02218	534	KQIRKQKPVLQKY
400	Q38799	34	SYAAGAKEMTVRD
401	Q38799	247	TIVTFSKMVGFAL
402	Q38799	254	MVGFALKAAEKLA
403	P0C215	88	WRFLPWKAPSQPA
404	P04637	291	EEENLRKKGEPHH
405	P04637	292	EENLRKKGEPHHE
406	Q15004	15	VPGTYRKVVAARA
407	Q15004	24	AARAPRKVLGSST
408	Q56WK6	285	NTVQWRKENKIDE
409	P12004	164	VVISCAKDGVKFS
410	P15873	164	INIMITKETIKFV
411	Q9UHG3	162	VEDVLDKFMRIYR
412	Q02785	426	KPGYEDKVPKSSS
413	P33302	825	RGVLTEKNANDPE
414	P38075	29	KFTLNEKQLTDDP
415	O43933	833	RSVNLHKPRDLGW
416	P35056	18	PLAQLHKHTQQNK
417	P35056	24	KHTQQNKSLOFNQ
418	P15259	179	PQIKAGKRVLIAA
419	P15259	195	SLRGIVKHLEGMS
420	P25297	6	MMSSV NKDTIHVA
421	P25297	298	EQDGEKKIHDTSD
422	P25360	102	RGDSDEKAIDGNN
423	Q99755	103	VGSLSTKPERDVL
424	Q06449	80	GLKPGDKVQLLEK
425	Q99569	611	ENKIAMKNVGGIP
426	O23522	43	PARKTNKEHLRNL
427	O23522	490	EQRSNVKVLTYTGK
428	O82274	19	SGSSKWKDLLDPL
429	P53350	19	APADPGKAGVPGV
430	P53350	492	MSEHLLKAGANIT
431	P13797	168	DGIVLCKMINLSV
432	P05030	555	HLGLRVKMLTGDA
433	P05030	566	DAVGIAKETCRQL
434	P05030	644	DAPSLKKADTGIA
435	Q8WZA1	537	RNVDSLKKEAYEV
436	Q8WZA1	538	NVDSLKKEAYEVE
437	P29590	380	DGFDEFKVRLQDL
438	P29590	400	KDAAVSKKASPEA
439	P29590	401	DAAVSKKASPEAA
440	P29590	476	NTTTAQKRKCSQT
441	Q9Y253	682	AVSHQKRNPKSP
442	Q9Y253	686	QGKRNPKSPLACT
443	Q9Y253	694	PLACTNKRPRPEG
444	Q9Y253	709	TLESFFKPLTHHH
445	Q6S8J3	684	EDIESVKKKNDNL
446	O23404	105	GRSEGNKGMKSL
447	P62937	28	FELFADKVPKTAE
448	Q5JSZ5	1510	PEASSKKAKEKAK
449	P06401	388	PPALKIKEEEEGA
450	P07737	54	VGVLV GKDRSSFY
451	P62191	237	GKTL LAKAVANQT
452	P25786	115	VSLIGSKTQIPTQ
453	P25786	208	EQDLTTKNVSI

454	P23638	199	ALKTLSKTTDSSA
455	P60900	59	QKKVPDKLLDSST
456	P51665	180	HLLRDIKDTTVGT
457	P60484	13	EIVSRNKRRYQED
458	P60484	289	PEETSEKVENGSL
459	P34222	152	TLKCPDKFTMDEL
460	Q06991	260	NAPIEEKPLIIII
461	Q05911	196	IGLRGVKGTTGTQ
462	Q9SQ57	165	FENLFSKHARTMP
463	Q9SQ57	235	LFEYCAKMORGAE
464	P03962	93	LLFEDRKFADIGN
465	P03962	209	GVGLDDKGDALGQ
466	P03962	253	EGERYRKAGWEAY
467	Q9CQ69	33	FPSYFSKGIPNVL
468	P59271	11	VKTLTGKTITLEV
469	P59271	29	IDNVKAKIQDKEG
470	P59271	33	KAKIQDKEGI PP
471	P59271	48	RLIFAGKQLEDGR
472	P59271	63	ADYNIQKESTLHL
473	P63000	147	QGLAMAKEIGAVK
474	P63000	147	DKDTIEKLKEKKL
475	P15919	233	PNVQLSKKLKTVL
476	P62826	71	DTAGQKFGGLRD
477	Q09028	4	MMMMADKEAAFDD
478	Q09028	4	MMMMADKEAFDDA
479	Q16576	4	MMMMASKEMFEDT
480	P49756	477	KTREYEKEAEREE
481	Q9P2N5	653	TNEEARKAISSTE
482	P54725	122	PAAREDKSPSEES
483	P40043	68	SHEDPEKISDAAN
484	O14924	1115	GKASADKQKGVVP
485	Q7Z5B4	202	RVMKEGKFIDRFS
486	O15034	727	SVDDFLKGSELGK
487	O15034	733	KGSELGKQPHCCH
488	Q9CQJ4	112	FDALISKIYPSRD
489	P57078	51	KTWLAIKCSPSLH
490	P57078	145	LLHLDLKPANILL
491	P27635	188	EDMVAEKRLIPDG
492	P47914	56	NKKGLKMQANNA
493	P47914	73	ARAEAIKALVKPK
494	P0CH06	6	MMQIFVKTLTGKT
495	P0CH06	27	DTIDNVKSKIQDK
496	P0CH06	29	IDNVKSKIQDKEG
497	P0CH06	33	KSKIQDKEGI PP
498	P0CH06	63	SDYNIQKESTLHL
499	P63048	27	DTIENVKAKIQDK
500	P63048	29	IENVKAKIQDKEG
501	P0C224	27	DTIDNVKQKIQDK
502	P0C224	29	IDNVKQKIQDKEG
503	P0C224	33	KQKIQDKEGI PP
504	Q9NTX7	85	PEDFLDKPTLLSP
505	Q9NTX7	95	LSPEELKAASRG
506	Q9NTX7	131	LEDAFSKGKKNTE
507	Q9NTX7	176	IIDIPKKGVAGLR
508	Q9SJQ6	901	EVAETIKSRGMNH
509	P04050	695	KVLDVTKEAQANL
510	P04844	154	LTARLSKEETVLA
511	P60866	8	AFKDTGKTPVEPE

512	P38701	8	SDFQKEKVVEEQEQ
513	Q9SIP7	62	QNVLGEKGRRIRE
514	P23396	90	VELYAEKVATRGL
515	P23396	202	GKIGPKKPLPDHV
516	P05750	212	VTIIEPKKEEPIL
517	P0CX35	168	IDLASGKITDFIK
518	P39743	481	NYVQLNKNNNNNN
519	Q31125	317	QSPREEKAGSDLR
520	Q9LK36	15	SSGREYKVKDMSQ
521	Q9Y467	911	GESSSRKACEVCG
522	O94979	647	VESCDLKNWREAL
523	O94979	1217	VLTQANKLGVVVV
524	Q8RXK2	190	KPVIDYKTDITGV
525	Q8RXK2	726	KEMEELKEKLGAM
526	Q5TEA6	101	LQKQAEKNFTDEG
527	Q15047	182	SSQDLHKGTLSQM
528	Q01105	154	ENKVLKKEFHLNE
529	Q01105	154	SGDPSSKSTEIKW
530	Q6AI14	352	TSYTTIKYFMKML
531	Q92581	443	NLGRRSKIGSNFQ
532	Q13485	519	YPRQSIKETPCWI
533	O15105	64	AGCCLGKAVRGAK
534	O15105	70	KAVRGAKGHHHPH
535	Q9HCE7	381	ERDLVQKLKVLRH
536	Q9HCE7	383	DLVQKLKVLRHEL
537	P14359	125	VPLMDNKQQLSSG
538	O95863	98	SDEDSGKGSQPPS
539	O95863	137	GLGQVPKQLAQLS
540	O95863	146	AQLSEAKDLQARK
541	P31109	63	LTSIEDKADNLAV
542	P33328	62	LTSIEDKADNLAI
543	Q9Y5W7	196	ITKLLKAAMKHI
544	Q9C093	982	GKSSGGKVPVKKS
545	Q9C093	982	GKVPVKKSPADST
546	Q8N0X7	362	PSSDQLKEASGTD
547	P51571	73	YADVGGKQFPVTR
548	P12866	1022	YRILDEKHNTLEV
549	Q86WV6	150	ISAVCEKGNFNVA
550	Q3TBT3	150	SAVCEEKKLNVAH
551	Q9WUM5	280	NSGPKAKPVVSFI
552	P61956	11	KPKEGVKTENNDH
553	Q9FFC7	773	AEIRAFKIISEQG
554	Q15431	295	LEESRDKVNQLEE
555	P41544	15	RVPNELKPSQIFK
556	P26639	222	FERLEVKKETLLA
557	Q9Y228	267	SPWGMKVVLEME
558	Q9BVV6	380	NDSLTRKSESSNT
559	P38085	39	DFTITEKQDEVSG
560	P69697	71	HQVSLSKQPTSQS
561	P69697	71	HQVSLSKQQQQQQ
562	P04610	71	HQVSLSKQPTSQP
563	P04608	71	HQASLSKQPTSQP
564	P04608	71	HQASLSKQQQQQQ
565	P10636	571	VPMPDLKNVFSKI
566	P10636	628	SVQIVYKPVDSLK
567	P10636	670	KDRVQSKIGSLDN
568	P68363	326	RGDVVPKDVNAAI
569	P68363	370	PGGDLAKVQRAVC

570	P07437	58	NEATGGKYVPRAI
571	P07437	324	RGRMSMKEVDEQM
572	Q9UHD2	670	TASSGIKHTMTPI
573	Q15560	58	SVNALRKQSSDEE
574	P50990	225	HGMVFKKETEADV
575	P50990	235	GDVTSVKDAKIAV
576	P47079	15	PNAGLFKQGYNSY
577	P10827	190	HWKQRRKFLPDDI
578	A2ASS6	10665	YVTEPKKPVPVKP
579	A2ASS6	10679	QEPVPAKPKAPPP
580	A2ASS6	10686	PKAPPPKVLKKAV
581	A2ASS6	30428	FSSVIIKEPQIEP
582	A2ASS6	31008	RVRAVNKYGLGVP
583	P53322	283	DSWFFNKEEKEYI
584	O15417	2328	SEEPGAKARGRGR
585	P58771	77	LELAEKKATDAEA
586	P40238	553	AALSPPKATVSDT
587	P40238	573	LLEILPKSSERTP
588	P29144	1005	KTKNKSKDKEKDS
589	P29144	1013	KEKDSEKEDLKE
590	Q13077	185	QHFMKEKLLAELE
591	Q13077	193	LAELEGKLRVFEN
592	Q12933	31	GTKLEAKYLCSAC
593	Q9Y4K3	124	FPDNFAKREILSL
594	Q9H8W5	371	RPGVNDKIRFCPQ
595	Q9H3M7	212	SRIVVPKAAIVAR
596	Q08960	496	GTNPVSKNWRWEV
597	Q07307	572	EAEYQSKQAAAAA
598	P63279	18	ERKAWRKDHPFGF
599	P0CH28	27	DTIENVKGKIQEK
600	P0CH28	29	IENVKKGKIQEKEG
601	P0CH28	33	KGKIQEKEGIPPD
602	Q9NPD8	91	ICLDVCLKLPPKGA
603	Q9NPD8	182	NSTQKRKASQLVG
604	P22589	11	VKTLTGKTITLDV
605	P22589	27	DSIDNVKQKIQDK
606	P19848	27	DTIDNVKAKIQDK
607	Q8SWD4	27	DSIENVKAKIQDK
608	Q9UHP3	99	DLTGDDKDDLQRA
609	Q93009	869	DLLQFFKPRQPKK
610	Q07963	709	SLTNSRKAI SPDN
611	O94888	99	PLFGAPKRRRPAR
612	Q96T88	385	ESKKKAKMASATS
613	P39547	11	SENTDVKLDLDE
614	P39547	218	KAAEIHKEAEFEY
615	P28274	422	RSVLGRKDSHSAE
616	Q96JH7	870	HSAHTVKQEDIAV
617	P98155	839	DNPVYLKTTEEDL
618	Q709C8	2357	LRLDVKKNPVQDK
619	Q9Y4B6	280	DRENFRKAKQKLG
620	P04275	1720	AKAFISKANIGPR
621	Q96S55	81	SESSALKQPATPT
622	Q96S55	141	GRKGSKRPAAAA
623	Q96S55	225	RQMLQKPLADTM
624	Q96S55	301	LSATNAKTNDVRD
625	Q96S55	310	DVRDVIKQAQNEK
626	Q96S55	316	KQAQNEKSFFKRK
627	Q96S55	322	KSFFKRKTILFID

628	Q96S55	335	EIHRFNKSQQDTF
629	Q96S55	482	ITENDVKEGLQRS
630	Q96S55	627	APTRLMKDLGYGK
631	Q96S55	633	KDLGYGKGYKYNP
632	Q96S55	636	GYGKGYKYNPMYS
633	Q96S55	335	EIHRFNKSQQVNA
634	Q96S55	636	RGVDFFKQRRCCC
635	P98170	322	PWEQHAKWYPGCK
636	P98170	328	KWYPGCKYLLEQK
637	P39548	217	KATQIEKEAQSEY
638	P67809	137	VPVQGSKYAADRN
639	P35723	190	EKYFDEKNQPGNV
640	P43590	50	YYYSKEKGEEMGE
641	P38809	78	EAAGTPKQQAPYP
642	P38809	187	GGRTSKKSTLDEV
643	P38809	242	ITQFDSKMKTELV
644	P36134	17	DDNDAEKRYVRPI
645	P34231	697	DDADFEKQVNRNE
646	Q06689	671	SPIDAEKNFARRR
647	Q03559	26	NRASDVKISEDDK
648	Q03559	32	KISEDDKARLKMR
649	P38079	286	VGPVAEKKMPSPA
650	Q60821	388	RCGDCGKLFTTSG
651	Q60821	472	KCRECGKQFTTSG
652	Q8BID6	46	KVFKAHKNVLLGS
653	Q9NUD5	45	GWAQVVKNLAEKK
654	Q08245	45	ASIDNLKNEATPE
655	Q08245	57	EAEQVKKEEQNIA
656	P31629	2092	RHLSPRKEAALRR
657	P22227	213	AFTESSKLRHFL
658	P22227	215	TESSKLRHFLVH
659	Q6NZP1	322	KQTAIAKAGAVKD

(B) List of 7,196 negative Lys-methylation sites and sequence

Sequence #	Protein ID	Site	Sequences
1	P20039	94	EYWNSQKDFLEDR
2	P20039	127	QRRVHPKVTVYPS
3	P20039	134	VTVYPSKTQPLQH
4	P20039	168	RNGQEEKTGVVST
5	P20039	227	SESAQSKMLSGVG
6	P08195	94	PPALASKNAEVTG
7	P08195	111	DTEVDMKEVELNE
8	P08195	122	NELEPEKQPMNAA
9	P08195	140	SLAGAEKNGLVKI
10	P08195	145	EKNGLVKI KVAED
11	P08195	160	EAAAAAKFTGLSK
12	P08195	166	KFTGLSKEELLKV
13	P08195	171	SKEELLKVAGSPG
14	P08195	217	RELPAQKWWHTGA
15	P08195	245	GNLAGLKGRLDYL
16	P08195	255	DYLSSLKVKGLVL
17	P08195	257	LSSLKVKGLVLGP
18	P08195	266	VLGPIHKNQKDDV
19	P08195	269	PIHKNQKDDVAQT

20	P08195	287	DPNFGSKEDFDSL
21	P08195	298	SLLQSAKKKSIRV
22	P08195	299	LLQSAKKKSIRVI
23	P08195	300	LQSAKKKSIRVIL
24	P08195	329	VDTVATKVKDALE
25	P08195	331	TVATKVKDALEFW
26	P08195	354	RDIENTLKDASSFL
27	P08195	368	EWQNITKGFSEDR
28	P08195	396	SLLESNKDLLLTS
29	P08908	101	LYQVLNKWTLGQV
30	P08908	147	PIDYVNRKTRPRA
31	P08908	191	DACTISKDHGYTI
32	P08908	228	ARFRIRKTVKKVE
33	P08908	231	RIRKTVKKVEKTG
34	P08908	232	IRKTVKKVEKTGA
35	P08908	235	TVKKVEKTGADTR
36	P08908	251	SPAPQPKKSVNGE
37	P08908	252	PAPQPKKSVNGES
38	P08908	270	RLGVESKAGGALC
39	P08908	302	HRVGNSKEHLPLP
40	P08908	324	PASFERKNERNAE
41	P08908	332	ERNAEAKRKMALA
42	P08908	342	ALARERKTVKTLG
43	P08908	345	RERKTVKTLGIIM
44	P08908	405	IYAYFNKDFQNAF
45	P08908	412	DFQNAFKKIIKCK
46	P08908	413	FQNAFKKIIKCKF
47	P08908	416	AFKKIIKCKFCRQ
48	Q8NE71	26	STSPSDKVVKKGK
49	Q8NE71	29	PSDKVVKKGKKDK
50	Q8NE71	30	SDKVVKKGKKDKK
51	Q8NE71	32	KVVKKGKKDKKIK
52	Q8NE71	33	VVKKGKKDKKIKK
53	Q8NE71	35	KKGKKDKKIKKTF
54	Q8NE71	36	KGKKDKKIKKTFE
55	Q8NE71	38	KKDKKIKKTFEEL
56	Q8NE71	39	KDKKIKKTFEEL
57	Q8NE71	50	ELAVEDKQAGEEE
58	Q8NE71	57	QAGEEEKVLKEKE
59	Q8NE71	60	EEKVLKEKEQQQ
60	Q8NE71	62	EKVLKEKEQQQQ
61	Q8NE71	74	QQQQQKKKRDTR
62	Q8NE71	75	QQQQQKKKRDTRK
63	Q8NE71	76	QQQQKKKRDTRKG
64	Q8NE71	81	KKRDTRKGRRKD
65	Q8NE71	85	TRKGRRKDVDDD
66	Q8NE71	86	RKGRRKDVDDD
67	Q8NE71	95	DDDGEEKELMERL
68	Q8NE71	102	ELMERLKKLSVPT
69	Q8NE71	103	LMERLKKLSVPTS
70	Q8NE71	119	DEVPAPKPRGGKK
71	Q8NE71	124	PKPRGGKKTGGN
72	P50544	52	TQAVLDKPETLSS
73	P50544	65	DASTREKPARAES
74	P50544	72	PARAESKSFVGM
75	P50544	80	FAVGMFKGQLTID
76	P50544	104	EQAQFLKELVGPV
77	P50544	122	EVNDPAKNDALEK

78	P50544	128	KNDAL E KVEDDTL
79	P50544	138	DTLQGL K ELGAFG
80	P50544	188	HQSIG F KGILLYG
81	P50544	196	ILLYGT K AQREKY
82	P50544	201	TKAQRE K YLPRVA
83	P50544	240	IPSPCG K YYTLNG
84	P50544	248	YTLNG S KIWISNG
85	P50544	265	IFTV F A K TPIKDA
86	P50544	269	FA K T P I K DAATGA
87	P50544	277	AATGAV K EKITAF
88	P50544	279	TGAV K EKITAFVV
89	P50544	299	THGL P E K KMG I KA
90	P50544	300	HGL P E K KMG I KAS
91	P50544	304	E K KMG I KASNTSE
92	P50544	317	VYFDG V KVPS E NV
93	P50544	354	TLAG T M K SL I AKA
94	P50544	359	M K SL I AKAVDHAT
95	P93821	8	V V K N S I K F N S Q S E
96	P93821	22	K S L E E T K V P P I F G
97	P93821	37	P D A L D D K K P T S D F
98	P93821	38	D A L D D K K P T S D F A
99	P93821	55	D F A G V H K S R E A V V
100	P93821	63	R E A V V E K I K A A A E
101	P93821	65	A V V E K I K A A A E N W
102	P93821	104	E E D P E V K K S Y F S L
103	P93821	105	E D P E V K K S Y F S L D
104	P93821	114	F S L D L T K T F I Y H N
105	P93821	163	A M I G Y S K H V M S L G
106	P93821	188	L N S D T L K S M G C M K
107	P93821	194	K S M G C M K L H M I C
108	P93821	217	Q T L G T S K H S D N T F
109	P93821	268	Q L M T N D K F I S V D H
110	P93821	306	T V Y G P I K E L L S E E
111	P93821	316	S E E N P P K Y R D F T I
112	P93821	327	T I P E Y S K G Y I E K G
113	P93821	332	S K G Y I E K G L D G T S
114	Q9UKV3	41	F E G R W R K L P K M P E
115	Q9UKV3	44	R W R K L P K M P E A V G
116	Q9UKV3	58	D P S T S R K M A E L E E
117	Q9UKV3	70	E V T L D G K P L Q A L R
118	Q9UKV3	81	L R V T D L K A A L E Q R
119	Q9UKV3	91	E Q R G L A K S G Q K S A
120	Q9UKV3	95	L A K S G Q K S A L V K R
121	Q9UKV3	100	Q K S A L V K R L K G A L
122	Q9UKV3	103	A L V K R L K G A L M L E
123	Q9UKV3	113	M L E N L Q K H S T P H A
124	Q9UKV3	138	S Q N S F I K Q Y L E K Q
125	Q9UKV3	143	I K Q Y L E K Q Q E L L R
126	Q9UKV3	205	S R H S P R K S S S I S E
127	Q9UKV3	213	S S I S E E K G D S D D E
128	Q9UKV3	220	G D S D D E K P R K G E R
129	Q9UKV3	223	D D E K P R K G E R R S S
130	Q9UKV3	238	R Q A R A A K L S E G S Q
131	Q9UKV3	268	R A D R N L K T E E E E E
132	Q9UKV3	294	G D D E G Q K S R E A P I
133	Q9UKV3	302	R E A P I L K E F K E E G
134	Q9UKV3	305	P I L K E F K E E G E E I
135	Q9UKV3	315	E E I P R V K P E E M D

136	Q9UKV3	325	MMDERP K TRS Q EQ
137	Q9UKV3	349	S Q EEAR K SHLAR Q
138	Q07622	14	QPNLYD K HIN M FP
139	Q07622	30	ARESS H KLGN A NS
140	Q07622	112	MDIF N S K PT G EIG
141	Q07622	141	FNFS S T K ES L GS P
142	Q07622	191	VYR T EE K APIR P L
143	Q07622	206	NPV P Q K IN Q P P T
144	Q07622	216	P P T G SA K T D D N GS
145	Q07622	228	SS G G E D K L S S Y SP
146	Q07622	244	AFY Q VY K K T IT D S
147	Q07622	245	FY Q VY K K T IT D SS
148	Q07622	252	TIT D SS K FT P E I Q
149	Q07622	284	YNIN A E K L K R S L K
150	Q07622	286	IN A E K L K R S L K PE
151	Q07622	290	KL K R S L K PE E ML K
152	Q07622	296	KPE E ML K N Q K V IL
153	Q07622	299	E M L K N Q K V IL E HS
154	Q07622	307	I L E H S F K V L T K L I
155	Q07622	311	S F K V L T K L I T L K W
156	Q07622	316	T K L I T L K W P P A M Y
157	Q07622	337	Q P Y L P I K N K N I V I
158	Q07622	339	Y L P I K N K N I V I K N
159	Q07622	344	N K N I V I K N D E K A L
160	Q07622	348	V I K N D E K A L E Y Y C
161	Q99KI0	13	L V T R L Q K A L G V R Q
162	Q99KI0	31	V L C Q R A K V A M S H F
163	Q99KI0	50	R Y D L L E K N I N I V R
164	Q99KI0	57	N I N I V R K R L N R P L
165	Q99KI0	68	P L T L S E K I V Y G H L
166	Q99KI0	86	Q E I E R G K T Y L R L R
167	Q99KI0	117	I S S G L P K V A V P S T
168	Q99KI0	138	A Q V G G E K D L R R A K
169	Q99KI0	160	L A T A G A K Y G V G F W
170	Q99KI0	225	G I P W E L K C P K V I G
171	Q99KI0	228	W E L K C P K V I G V K L
172	Q99KI0	233	P K V I G V K L T G S L S
173	Q99KI0	245	S G W T S P K D V I L K V
174	Q99KI0	250	P K D V I L K V A G I L T
175	Q99KI0	258	A G I L T V K G G T G A I
176	Q99KI0	304	P Y N H R M K K Y L S K T
177	Q99KI0	305	Y N H R M K K Y L S K T G
178	Q99KI0	309	M K K Y L S K T G R T D I
179	Q99KI0	323	N L A E E F K D H L V P D
180	Q99KI0	346	I N L N E L K P H I N G P
181	Q99KI0	370	V G T V A E K E G W P L D
182	Q99KI0	401	R S A A V A K Q A L A H G
183	Q99KI0	409	A L A H G L K C K S Q F T
184	P52910	7	M T I K E H K V V Y E A H
185	P52910	16	Y E A H N V K A L K A P Q
186	P52910	19	H N V K A L K A P Q H F Y
187	P52910	31	Y N S Q P G K G Y V T D M
188	P52910	53	S I N E P E K F F D K M A
189	P52910	57	P E K F F D K M A K E Y L
190	P52910	60	F F D K M A K E Y L H W D
191	P52910	71	W D A P Y T K V Q S G S L
192	P52910	89	A W F L N G K L N A S Y N
193	P52910	107	A F A N P D K P A L I Y E

194	P52910	121	DDESDNKIITFGE
195	P52910	131	FGELLRKVSQIAG
196	P52910	140	QIAGVLSWGVKK
197	P52910	145	LKSWGVBKGD TVA
198	P52910	146	KSWGVBKGD T VAI
199	P52910	187	FSAGSLKDRV VDA
200	P52910	196	VVDANSKV VITCD
201	P52910	205	ITCDEGKRG G KTI
202	P52910	209	EGKRG GKTINTKK
203	P52910	214	GKTINTKKI VDEG
204	P52910	215	KTINTKKI VDEGL
205	P52910	244	TEGIPMKAGR DYW
206	P52910	257	WHEEAAKQRT YLP
207	P52910	286	GSTGSPKGV VHTT
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209	O43707	54	WEKQQRKTFT AWC
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211	O43707	83	DFRDGLKLML LLE
212	O43707	98	SGERLPKPERG KM
213	O43707	103	PKPERGKMRV HKI
214	O43707	108	GKMRVHKINNV NK
215	O43707	114	KINNVNKALDF IA
216	O43707	122	LDFIASKGVK LVS
217	O43707	125	IASKGVKLV S IGA
218	O43707	140	IVDGNAMT L GMI
219	O43707	166	VEETSAKEGL LLLW
220	O43707	176	LLWCQRKTAP YKN
221	O43707	181	RKTAPYKNV NVQN
222	O43707	193	NFHISWKDGL AFN
223	O43707	214	ELIEYDKLRK DDP
224	O43707	217	EYDKLRKDDP VTN
225	O43707	233	AFEVAEKYLD I PK
226	O43707	239	KYLDI PKMLDAED
227	O43707	255	TARPDEKAIMTY V
228	O43707	273	AFSGAQKAETA AN
229	O43707	283	AANRICKVLAV NQ
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231	O43707	323	EDRVPQKTIQEM Q
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233	Q16186	30	VEFRAGKMSL KGT
234	Q16186	42	TTVTPDKRKGL VY
235	Q16186	44	VTPDKRKGLVY IQ
236	Q16186	62	LIHFCWKDR TSGN
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240	Q16186	103	KFKAGSKRLFFWM
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243	Q16186	371	AVEAANKGDVEAF
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245	Q16186	386	AMQNNAKPEQKEG
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251	P48962	33	APIERVKLL LQVQ

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253	P48962	49	KQISAEKQYKGII
254	P48962	52	SAEKQYKGIIDCV
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273	Q84VQ0	49	SGSKGQKIPLLTN
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336	P38080	340	GAYNFSKYTQFQN
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370	P54115	117	EALDNGKTLALAR
371	P54115	142	AAAYADKVNGRTI
372	P54115	182	IMMLAWKIAPALA
373	P54115	196	GNVCILKPAAVTP
374	P54115	213	YFASLCKKVGIPA
375	P54115	214	FASLCKKVGIPAG
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377	P54115	255	GSTEVGKSAVDS
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385	P54115	335	YLETEIKVGNPFD
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392	P10275	220	GAPTSSKDNYLGG
393	P10275	235	TISDNAKELCKAV
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396	P10275	299	LDDSAGKSTEDTA
397	P10275	311	AEYSPFKGGYTKG
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399	P10275	347	STLSLYKSGALDE
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402	P10275	557	YYFPPQKTCLICG
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404	P10275	584	SCKVFFKRAAEGK
405	P10275	590	KRAAEGKQKYLCA
406	P10275	592	AAEGKQKYL CASR
407	P10275	605	NDCTIDKFRRKNC
408	P10275	609	IDKFRRKNCPSCR
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410	P10275	630	MTLGARKLKKLGN
411	P10275	632	LGARKLKKLGNLK
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414	Q12955	10	AASQLKKNRDLEI
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416	Q12955	25	EEEEPEKKRKHRKR
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421	Q12955	38	SRDRKKKSDANAS
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423	Q12955	62	KALDYIKNGVDIN
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425	Q12955	105	NVDAATKKGNTAL

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429	Q12955	198	LLENDTKGKVRLP
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431	Q12955	212	LHIAARKDDTKAA
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433	Q12955	233	NADVESKSGFTPL
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435	Q12955	285	GNANMVKLLLDRG
436	Q12955	293	LLDRGAKIDAKTR
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438	Q9Y2G4	32	VVQLINKGARVAV
439	Q9Y2G4	52	LHLAANKGHLPVV
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442	Q9Y2G4	125	GFSQSAKLLIKAG
443	Q9Y2G4	129	SAKLLIKAGANVL
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446	Q9Y2G4	170	GSRADLKNNAGDT
447	Q9Y2G4	203	FCSVHEKNQAGDT
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450	Q9Y2G4	224	NHKKVAKILLEAG
451	Q9Y2G4	261	VALLLTKAPQVLR
452	Q9Y2G4	276	RGRSLRKKRERLK
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594	P35193	182	KLELEQKVTNKEP
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647	Q8WXE1	214	TSERANKLAAPSV
648	Q8WXE1	227	SHVSPRKNPSVVI
649	Q8WXE1	234	NPSVVIKPEACSP
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653	Q99728	96	AWIQDLKINRQLD
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665	Q99728	171	TQPAIKKDASAQQ
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675	Q99728	232	DGEFDSKEESKQK
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678	Q9UIF8	167	NRNGPEKGVNGSI
679	Q9UIF8	201	SSMGQTKSTSSGG
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682	Q9UIF8	228	LDARVDKIKDKKP
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684	Q9UIF8	232	VDKIKDKKPRKKA
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686	Q9UIF8	236	KDKKPRKKAMESS
687	Q9UIF8	237	DKKPRKKAMESSS
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691	Q9UIF8	319	GQKATEKAQEKRI
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693	Q9UIF8	345	SFQSQQKQPQVLS
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695	Q9UIF8	370	KEESV NKHTSVIQ
696	Q9UIF8	385	GLVSNVKPLSLVN
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709	Q8NFC6	235	TSERASKKLPSQP
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713	Q8NFC6	261	DMADKEKSTADSG
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721	Q8NFC6	324	STDKGEKKPDSNE
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724	P55061	15	NFDALLKFSHITP
725	P55061	28	STQQHLKKVYASF
726	P55061	29	TQQHLKKVYASFA
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730	P55061	230	ILAMNEKDKKKEK
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732	P38356	97	ILDRLFKKRTQQS
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736	P38356	233	PNDVTSKVGKNKS
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739	P38356	265	QSTTQDKFESHLN
740	P38356	278	HGLDEEKQNI PWL
741	P38356	298	GLFITLKSIYDYI
742	P38356	307	YDYIQVKKLEKKY
743	P38356	308	DYIQVKKLEKKYL
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746	Q10589	47	LIIFTIKANSEAC
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749	Q10589	111	EKAQGQKKVEELE
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751	Q10589	126	ITTLNHKLQDASA
752	Q10589	151	SVRIADKKYYPSS
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764	O43684	222	KKKYAFKCHRLKE
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781	A2RUR9	163	NLKVDDKCPVSP
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787	A2RUR9	243	LKGCEKQPQKTS
788	A2RUR9	247	ENKQPQKTSQPE
789	A2RUR9	256	QEPEMAKDCDRED
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792	A2RUR9	288	QKLEWKNQLKLV
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807	Q9Y4F5	284	PGKMKIKDHITKF
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868	O22203	121	YGPYVVKVRKVCT
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1496	Q13616	315	NLLDADKNEDLGR
1497	Q13616	337	DGLGELKKLLETH
1498	Q13616	338	GLGELKKLLETHI
1499	Q13619	8	ADEAPRKGSFSAL
1500	Q13619	23	RTNGLTKPAALAA
1501	Q13619	41	GGAGGSKKLV IKN
1502	Q13619	42	GAGGSKKLV IKNF
1503	Q13619	46	SKKLV IKNFRDRP
1504	Q13619	65	TQDTWRKLHEAVR
1505	Q13619	97	ENLC SHKVSPMLY
1506	Q13619	104	VSPMLYKQLRQAC
1507	Q13619	134	SVLFLK KINTCWQ
1508	Q13619	186	THI ISDKMVQSKT
1509	Q13619	191	DKMVQSKTIDGIL
1510	Q13619	228	SDLQVYKDSFELK
1511	Q13619	234	KDSFELKFLEETN
1512	Q13619	265	YLNHVSKRLEEEG
1513	Q13619	284	LDHSTQKPLIACV
1514	Q13619	292	LIACVEKQLLGEH
1515	Q13619	305	LTAILQKGLDHLL
1516	Q13619	345	HWSEYIKTFGTAI
1517	Q13619	357	IVINPEKDKDMVQ
1518	Q13619	359	INPEKDKDMVQDL
1519	Q13619	369	QDLLDFKDKVDHV
1520	Q13619	371	LLDFKDKVDHVIE
1521	P43023	17	SMASAAKGDHGGA
1522	P40087	40	ADCGFDKTKHDLY
1523	P40087	42	CGFDKTKHDLYYN
1524	P40087	61	NRTQSLKELGLKT
1525	P40087	66	LKELGLKTDDLLL
1526	P40087	76	LLLIRGKISNSIQ
1527	P40087	172	DDPDNKKRIAELL

1528	P40087	216	INNYPVKAFVDTG
1529	P40087	234	MSTRLAKKTGLSR
1530	P40087	235	STRLAKKTGLSRM
1531	P40087	244	LSRMIDKRFIGEA
1532	P40087	268	IHQAVQKIETQYI
1533	P40087	295	IGLDMLKRHLACV
1534	P40087	304	LACVDLKENVLRI
1535	P40087	325	SEAEIPKSFQEGL
1536	P40087	343	VTTSSDKPLTPTK
1537	P40087	349	KPLTPTKTSSTLP
1538	P40087	396	FPEQTIKQLMDLG
1539	P40087	410	PRDAVVKALKQTN
1540	P40087	413	AVVKALKQTNNGA
1541	Q39017	17	FPSWTSKNPIDTV
1542	Q39017	60	INLSWTKAIARSK
1543	Q39017	66	KAIARSKKNPKAR
1544	Q39017	67	AIARSKKNPKARH
1545	Q39017	70	RSKKNPKARHKVP
1546	Q39017	74	NPKARHKVPVAPH
1547	Q39017	91	DPIARAKNLNCCV
1548	Q39017	100	NCCVCLKSMSPSQ
1549	Q39017	135	CSSSAPKDCKCVS
1550	Q39017	138	SAPKDCKCVSMVG
1551	Q39017	228	LCPLYVKELTRNP
1552	Q39017	262	SIRIQSKKYKQTN
1553	Q39017	263	IRIQSKKYKQTNE
1554	Q39017	265	IQSKKYKQTNETS
1555	Q39017	323	DSDSNGKLEKKPS
1556	Q39017	326	SNGKLEKKPSVKR
1557	Q39017	327	NGKLEKKPSVKRT
1558	Q39017	331	EKKPSVKRTGSFG
1559	Q39017	339	TGSFGQKEYHALR
1560	Q39017	347	YHALRSKLYELA
1561	Q39017	349	ALRSKLYELADL
1562	Q39017	368	LLVFINKKSGAQR
1563	Q39017	369	LVFINKKSGAQRG
1564	Q39017	409	GLFLFRKVPHFRV
1565	P07262	31	QHPEYRKVLP IVS
1566	P07262	53	VTWENDKGEQEVA
1567	P07262	70	VQYNSAKGPYKGG
1568	P07262	74	SAKGPYKGGLRFH
1569	P07262	89	VNLSILKFLGFEQ
1570	P07262	98	GFEQIFKNSLTGL
1571	P07262	110	LDMGGGKGGLCVD
1572	P07262	118	GLCVDLKGSRNNE
1573	P07262	169	GAYRSYKNSWEGV
1574	P07262	179	EGVLTGKGLNWGG
1575	P07262	212	DYATNGKESFEGK
1576	P07262	218	KESFEGKRV TISG
1577	P07262	235	AQYAALKVIELGG
1578	P07262	250	VSLSDSKGCIISE
1579	P07262	271	ADISSAKVNFKSL
1580	P07262	275	SAKVNFKSLEQIV
1581	P07262	291	STFSENKVQYIAG
1582	P07262	306	PWTHVQKVDIALP
1583	P07262	333	LVAQGVKFIAEGS
1584	P07262	404	RVDQELKRIMINC
1585	P07262	419	ECIDYAKKYTKDG

1586	P07262	420	CIDYAKKYTKDGK
1587	O60610	17	GRGTRDKKKGRSP
1588	O60610	18	RGTRDKKKGRSPD
1589	O60610	19	GTRDKKKGRSPDE
1590	O60610	35	AGGDGGKSKKFTL
1591	O60610	37	GDGGKSKKFTLKR
1592	O60610	38	DGGKSKKFTLKRL
1593	O60610	42	SKKFTLKRLMADE
1594	O60610	58	FTSMRIKKEKEKP
1595	O60610	59	TSMRIKKEKEKPN
1596	O60610	61	MRIKKEKEKPNSA
1597	O60610	63	IKKEKEKPNSAHR
1598	O60610	109	MNLNEEKQOPLRE
1599	O60610	116	QOPLREKDIIIKR
1600	O60610	121	EKDIIIKREMVSQ
1601	O60610	133	QYLYTSKAGMSQK
1602	O60610	139	KAGMSQKESSKSA
1603	O60610	143	SQKESSKSAMMYI
1604	O60610	196	SLLDILKRLHDEK
1605	O60610	202	KRLHDEKEETAGS
1606	O60610	214	SYDSRNKHEIIRC
1607	O60610	222	EIIRCLKAFMNNK
1608	O60610	228	KAFMNNKFGIKTM
1609	O60610	232	NNKFGIKTMLETE
1610	O60610	261	MMIDAAKLLSALC
1611	Q9NSV4	34	RGCRESKMPRRKG
1612	Q9NSV4	39	SKMPRRKGPQHPP
1613	Q9NSV4	56	PEEPGEKRPKFHL
1614	Q9NSV4	59	PGEKRPKFHLNIR
1615	Q9NSV4	74	TDDMLDKFASIRI
1616	Q9NSV4	84	IRIPGSKKERPPL
1617	Q9NSV4	85	RIPGSKKERPPLP
1618	Q9NSV4	94	PPLPNLKTAFASS
1619	Q9NSV4	115	MMENFPKPLSENE
1620	Q9NSV4	128	LLELFEKMMEDMN
1621	Q9NSV4	140	NLNEDKKAPLREK
1622	Q9NSV4	146	KAPLREKDFSIAK
1623	Q9NSV4	151	EKDFSIAKEMVMQ
1624	Q9NSV4	152	KDFSIAKEMVMQY
1625	Q9NSV4	164	YINTASKTGSLKR
1626	Q9NSV4	169	SKTGSLKRSRQIS
1627	Q9NSV4	184	EFIHELKMGSAD
1628	Q9NSV4	228	LLDILEKLISGKI
1629	Q9NSV4	233	EKLISGKIQEKVV
1630	Q9NSV4	237	SGKIQEKVVKKNQ
1631	Q9NSV4	240	IQEKVVKKNQHKV
1632	Q9NSV4	241	QEKVVKKNQHKVI
1633	Q9NSV4	245	VKKNQHKVIQCLK
1634	P39976	19	EAYPKVKRNP NFK
1635	P39976	25	KRNP NFKVLDSED
1636	P39976	62	FNQDWMKKYRGQS
1637	P39976	63	NQDWMKKYRGQSN
1638	P39976	79	LPNSTDKVSKIMK
1639	P39976	82	STDKVSKIMKYCN
1640	P39976	85	KVSKIMKYCNDKK
1641	P39976	90	MKYCNDKKLAVVP
1642	P39976	91	KYCNDKKLAVVPQ
1643	P39976	123	SLRNMNKVRDFDP

1644	P39976	135	PVSGTFKCDAGVV
1645	P39976	212	NINALRKDNTGYD
1646	P39976	220	NTGYDLKQLFIGA
1647	P39976	243	SIVAAAKPKALNA
1648	P39976	245	VAAAKPKALNAVF
1649	P39976	262	NFDTVQKLFVKAK
1650	P39976	266	VQKLFVKAKSELS
1651	P39976	268	KLFVKAKSELSEI
1652	P39976	294	CTIEYLDLDPFPL
1653	P39976	317	ETSGSNKRHDDEK
1654	P39976	323	KRHDDEKLTAFLK
1655	P39976	329	KLTAFLKDTTDSK
1656	P39976	335	KDTTDSKLISEGM
1657	P38823	29	TSHDHTKFNNPIR
1658	P38823	106	PAVNTTKSIRHFI
1659	P38823	145	IDQSTLKRRMDKH
1660	P38823	215	YHPVVFKSKVISR
1661	P38823	227	RTHGCFKVDDQGN
1662	P38823	288	EIYRCVKMKIELN
1663	P38823	290	YRCVKMKIELNKS
1664	P38823	295	MKIELNKS WKLKA
1665	P38823	298	ELNKS WKL KANAF
1666	P38823	333	CSICLNKIKPCQA
1667	P38823	335	ICLNKIKPCQAIF
1668	P53924	253	VDEVTLKQRKDKH
1669	P53924	321	YHPVVFKSKVVS
1670	P53924	323	PVVFKSKVVS RTH
1671	P53924	404	ELNRS WKL KANSF
1672	P53924	439	CSICLCKIKPCQA
1673	P53924	441	ICLCKIKPCQAIF
1674	P53924	516	VLMETS KDVD SHP
1675	P18858	12	MSFFHPKKEGKAK
1676	P18858	13	SFFHPKKEGKAKK
1677	P18858	16	HPKKEGKAKKPEK
1678	P18858	18	KKEGKAKKPEKEA
1679	P18858	19	KEGKAKKPEKEAS
1680	P18858	22	KAKKPEKEASNSS
1681	P18858	36	ETEPPP KAALKEW
1682	P18858	40	PPKAALKEWNGVV
1683	P18858	54	ESDSPVKRPGRKA
1684	P18858	59	VKRPGRKAARVLG
1685	P18858	79	EALSPAKGQK PAL
1686	P18858	82	SPAKGQK PALDCS
1687	P18858	120	SPSGIPKRRTARK
1688	P18858	126	KRRTARKQLPKRT
1689	P18858	130	ARKQLPKRTIQEV
1690	P18858	149	DEDREAKRKKEEE
1691	P18858	151	DREAKRKKEEEEEE
1692	P18858	152	REAKRKKEEEEEE
1693	P18858	161	EEEE TPKE SLTEA
1694	P18858	173	AEVATEKEGEDGD
1695	P18858	186	QPTTPPKPLKTSK
1696	P18858	189	TPPKPLKTSKAET
1697	P18858	192	KPLKTSKAETPTE
1698	P18858	208	EPEVATKQELQEE
1699	P06746	27	ELANFEKNVSQAI
1700	P06746	35	VSQAIHKYNAYRK
1701	P06746	48	AASVIAKYPHKIK

1702	P06746	52	I	A	K	Y	P	H	K	I	K	S	G	A	E
1703	P06746	54	K	Y	P	H	K	I	K	S	G	A	E	A	K
1704	P06746	60	K	S	G	A	E	A	K	K	L	P	G	V	G
1705	P06746	68	L	P	G	V	G	T	K	I	A	E	K	I	D
1706	P06746	72	G	T	K	I	A	E	K	I	D	E	F	L	A
1707	P06746	84	A	T	G	K	L	R	K	L	E	K	I	R	Q
1708	P06746	87	K	L	R	K	L	E	K	I	R	Q	D	D	T
1709	P06746	113	G	P	S	A	A	R	K	F	V	D	E	G	I
1710	P06746	120	F	V	D	E	G	I	K	T	L	E	D	L	R
1711	P06746	127	T	L	E	D	L	R	K	N	E	D	K	L	N
1712	P06746	131	L	R	K	N	E	D	K	L	N	H	H	Q	R
1713	P06746	141	H	Q	R	I	G	L	K	Y	F	G	D	F	E
1714	P06746	148	Y	F	G	D	F	E	K	R	I	P	R	E	E
1715	P06746	167	I	V	L	N	E	V	K	K	V	D	S	E	Y
1716	P06746	168	V	L	N	E	V	K	K	V	D	S	E	Y	I
1717	P06746	206	F	T	S	E	S	T	K	Q	P	K	L	L	H
1718	P06746	209	E	S	T	K	Q	P	K	L	L	H	Q	V	V
1719	P06746	220	V	V	E	Q	L	Q	K	V	H	F	I	T	D
1720	P01903	27	Q	E	S	W	A	I	K	E	E	H	V	I	I
1721	P01903	63	F	H	V	D	M	A	K	K	E	T	V	W	R
1722	P01903	64	H	V	D	M	A	K	K	E	T	V	W	R	L
1723	P01903	92	A	N	I	A	V	D	K	A	N	L	E	I	M
1724	P01903	100	N	L	E	I	M	T	K	R	S	N	Y	T	P
1725	P01903	136	L	I	C	F	I	D	K	F	T	P	P	V	V
1726	P01903	151	T	W	L	R	N	G	K	P	V	T	T	G	V
1727	P01903	172	E	D	H	L	F	R	K	F	H	Y	L	P	F
1728	P01903	201	L	D	E	P	L	L	K	H	W	E	F	D	A
1729	P01903	240	G	T	I	F	I	I	K	G	V	R	K	S	N
1730	F4IBE4	35	D	Q	V	T	E	L	K	R	D	L	N	M	L
1731	F4IBE4	46	M	L	S	S	F	L	K	D	A	N	A	K	K
1732	F4IBE4	51	L	K	D	A	N	A	K	K	H	T	S	A	V
1733	F4IBE4	52	K	D	A	N	A	K	K	H	T	S	A	V	V
1734	F4IBE4	59	H	T	S	A	V	V	K	N	C	V	E	E	I
1735	F4IBE4	66	N	C	V	E	E	I	K	E	I	I	Y	D	G
1736	F4IBE4	87	L	E	Q	N	L	G	K	T	S	G	I	K	K
1737	F4IBE4	92	G	K	T	S	G	I	K	K	S	I	R	R	L
1738	F4IBE4	93	K	T	S	G	I	K	K	S	I	R	R	L	A
1739	F4IBE4	141	I	V	D	G	G	Y	K	Q	P	Q	G	D	K
1740	F4IBE4	147	K	Q	P	Q	G	D	K	Q	R	E	M	R	Q
1741	F4IBE4	154	Q	R	E	M	R	Q	K	F	S	K	D	D	D
1742	F4IBE4	157	M	R	Q	K	F	S	K	D	D	D	S	D	F
1743	F4IBE4	171	G	L	E	A	N	V	K	K	L	V	G	Y	L
1744	F4IBE4	172	L	E	A	N	V	K	K	L	V	G	Y	L	V
1745	F4IBE4	196	G	M	G	L	G	K	T	T	L	A	K	Q	
1746	F4IBE4	201	G	K	T	T	L	A	K	Q	V	F	N	H	E
1747	F4IBE4	210	F	N	H	E	D	V	K	H	Q	F	D	G	L
1748	F4IBE4	233	R	M	N	V	W	Q	K	I	L	R	D	L	K
1749	F4IBE4	239	K	I	L	R	D	L	K	P	K	E	E	E	K
1750	F4IBE4	241	L	R	D	L	K	P	K	E	E	E	E	K	K
1751	F4IBE4	245	K	P	K	E	E	E	K	K	I	M	E	M	T
1752	F4IBE4	246	P	K	E	E	E	K	K	I	M	E	M	T	Q
1753	Q03001	30	D	V	L	E	R	Y	K	D	E	R	D	K	V
1754	Q03001	35	Y	K	D	E	R	D	K	V	Q	K	K	T	F
1755	Q03001	38	E	R	D	K	V	Q	K	K	T	F	T	K	W
1756	Q03001	39	R	D	K	V	Q	K	K	T	F	T	K	W	I
1757	Q03001	43	Q	K	K	T	F	T	K	W	I	N	Q	H	L
1758	Q03001	51	I	N	Q	H	L	M	K	V	R	K	H	V	N
1759	Q03001	54	H	L	M	K	V	R	K	H	V	N	D	L	Y

1760	Q03001	85	DTLPREKGRMRFH
1761	Q03001	104	IALDYLKRRQVKL
1762	Q03001	109	LKRRQVKLVNIRN
1763	Q03001	124	ITDGNPKLTLGLI
1764	Q03001	154	SEDMSAKERLLLW
1765	Q03001	184	TCWRDGLFNAILI
1766	Q03001	192	FNAILHKYRPDLI
1767	Q03001	221	AFYVAEKIGVIRL
1768	Q03001	241	VSSPDEKSVITYV
1769	Q03001	256	LYDAFPKVPEGGE
1770	Q03001	272	ANDVEVKWIEYQN
1771	Q03001	307	NNPVELKALYNQY
1772	Q03001	317	NQYLQFKETEIPP
1773	Q03001	324	ETEIPPKETEKSK
1774	Q03001	328	PPKETEKSKIKRL
1775	Q03001	330	KETEKSKIKRLYK
1776	Q03001	332	TEKSKIKRLYKLL
1777	P38167	11	TSRPVAKNSSHSL
1778	P38167	26	TDLNQSKGQPFQP
1779	P38167	36	FQPSPTKKLGSMQ
1780	P38167	37	QPSPTKKLGSMQQ
1781	P38167	74	VLNNTTKGGNNG
1782	P38167	94	DAQLLGKKQNKQP
1783	P38167	95	AQLLGKKQNKQPP
1784	P38167	98	LGKKQNKQPPNA
1785	P38167	190	TRLANSKKFNEQF
1786	P38167	191	RLANSKKFNEQFL
1787	P38167	210	RGLLGPKTVLSNE
1788	P38167	219	LSNEYLKISISTS
1789	P38167	333	AVIVSVKKPTRFT
1790	P38167	334	VIVSVKKPTRFTD
1791	P38167	350	ELCSRVKVFWNTG
1792	P38167	361	TGVPPTKTFNEEF
1793	P38167	374	YNAASMKNLNDL
1794	P38167	410	RQMRLFKNIPTEE
1795	P38167	422	ERLYLDKTKTKAS
1796	P38167	424	LYLDKTKTKASLL
1797	P38167	426	LDKTKTKASLLNA
1798	P38167	437	NAIDVNKTHLYQP
1799	P38167	478	RLRLATKAINRKG
1800	P38167	483	TKAINRKGFYRQD
1801	P0DH99	20	GHVDSGKSTTTGH
1802	P0DH99	30	TGHLIYKLGIDK
1803	P0DH99	36	KLGGIDKRVIERF
1804	P0DH99	44	VIERFEKEAAEMN
1805	P0DH99	51	EAAEMNKRSFKYA
1806	P0DH99	55	MNKRSFKYAWVLD
1807	P0DH99	62	YAWVLDKKAERE
1808	P0DH99	64	WVLDKKAEREREG
1809	P0DH99	79	IDIALWKFETTKY
1810	P0DH99	84	WKFETTKYYCTVI
1811	P0DH99	100	GHRDFIKNMITGT
1812	P0DH99	129	FEAGISKDGQTRE
1813	P0DH99	146	AFTLGVKQMICCC
1814	P0DH99	154	MICCCNKMDATTP
1815	P0DH99	161	MDATTPKYSKARY
1816	P0DH99	164	TTPKYSKARYDEI
1817	P0DH99	172	RYDEI KEVSSYL

1818	P0DH99	179	EVSSYLKKVGYNP
1819	P0DH99	180	VSSYLKKVGYNPD
1820	P0DH99	187	VGYNPDKIPFVPI
1821	P0DH99	212	TNLDWYKGPTLLE
1822	P0DH99	227	DQINEPKRPSDKP
1823	P0DH99	232	PKRPSDKPLRLPL
1824	P0DH99	243	PLQDVYKIGGIGT
1825	P00533	28	SRALEEKKVCQGT
1826	P00533	29	RALEEKKVCQGTS
1827	P00533	37	CQGTSNKLTQLGT
1828	P00533	80	YDLSFLKTIQEVA
1829	P00533	129	SNYDANKTGLKEL
1830	P00533	133	ANKTGLKELPMRN
1831	P00533	189	HLGSCQKCDPSCP
1832	P00533	209	GEENCQKLTKIIC
1833	P00533	212	NCQKLTKIICAQQ
1834	P00533	226	SGRCRGKSPSDCC
1835	P00533	253	DCLVCRKFRDEAT
1836	P00533	261	RDEATCKDTCPPL
1837	P00533	284	DVNPEGKYSFGAT
1838	P00533	293	FGATCVKKCPRNY
1839	P00533	294	GATCVKKCPRNYV
1840	P00533	325	EEDGVRKCKKCEG
1841	P00533	327	DGVRKCKKCEGPC
1842	P00533	328	GVRKCKKCEGPCR
1843	P00533	335	CEGPCRKVCNGIG
1844	P00533	346	IGIGEFKDSLSIN
1845	P00533	357	INATNIKHFKNCT
1846	P00533	360	TNIKHFKNCT SIS
1847	P00533	396	QELDILKTVKEIT
1848	P00533	399	DILKTVKEITGFL
1849	Q9LD55	12	KPENALKRADELI
1850	Q9LD55	23	LINVGQKQDALQA
1851	Q9LD55	37	HDLITSKRYRAWQ
1852	Q9LD55	44	RYRAWQKPLEKIM
1853	Q9LD55	48	WQKPLEKIMFKYL
1854	Q9LD55	52	LEKIMFKYLDLCV
1855	Q9LD55	67	KRGRFAKDGLIQY
1856	Q9LD55	90	SLEEVIKHFLHLA
1857	Q9LD55	99	LHLATDKAEQARS
1858	Q9LD55	124	DLEADRKPEDLQL
1859	Q9LD55	137	SIVSGEKGKDRSD
1860	Q9LD55	139	VSGEKGKDRSDRE
1861	Q9LD55	152	LVTWPFKFLWETY
1862	Q9LD55	170	ILRNNSKLEALYA
1863	Q9LD55	181	YAMTAHKAFQFCK
1864	Q9LD55	187	KAFQFCKQYKRTT
1865	Q9LD55	190	QFCKQYKRTTEFR
1866	Q9LD55	211	HLANLNKYRDQRD
1867	Q9LD55	239	TRFDQLKVATELG
1868	Q9LD55	265	GLMCMVKKTPKSS
1869	Q9LD55	266	LMCMVKKTPKSSL
1870	Q9LD55	269	MVKKTPKSSLLMV
1871	Q9LD55	279	LMVYYSKLTEIFW
1872	Q13347	17	RSITQIKYNREGD
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2018	P38748	230	FTVKKKKELVKVE
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2313	P10071	32	RTDVSEKAVASST
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2754	Q5QNW6	24	AVTKVQKKDGKKR
2755	Q5QNW6	25	VTKVQKKDGKKRK
2756	Q5QNW6	28	VQKKDGKKRKRSR
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2761	P62805	13	GGKGLGKGGAKRH
2762	P62805	17	LGKGGAKRHRKVL
2763	P62805	21	GAKRHRKVLRDNI
2764	P62805	32	NIQGITKPAIRRL
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2774	P51610	129	LKAKTPKNGPPPC
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2792	O15379	121	ATQLNNAICDIAI
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3168	Q14974	509	FELIVQKLLETTD
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3170	Q6PI98	42	GYGASKKKKASAS
3171	Q6PI98	43	YGASKKKKASASS
3172	Q6PI98	44	GASKKKKASASSF
3173	Q6PI98	63	EAMSENKMVPSEF
3174	Q6PI98	76	STGPVEKAAKPLP
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3176	Q6PI98	84	AKPLPFKDPNFVH
3177	Q6PI98	100	GGAVAGKKNRTWK
3178	Q6PI98	101	GAVAGKKNRTWKN
3179	Q6PI98	106	KKNRTWKNLKQIL
3180	Q6PI98	109	RTWKNLKQILASE
3181	Q6PI98	137	DAPPSFKPAKKYS
3182	Q6PI98	140	PSFKPAKKYSDVS
3183	Q6PI98	141	SFKPAKKYSDVSG
3184	Q6PI98	158	YTD PQSKLRFSTI
3185	Q6PI98	186	GYLALRKATSIVP
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3187	O15503	180	INHASAKLDFANN
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3189	O80560	45	LRATGQKGHRQR
3190	O80560	60	SLDDIPKITEIVS
3191	O80560	131	GGVGMFKVPTRSP
3192	O80560	154	LRPHPLKETQVGR
3193	O80560	235	LVWSGHKDGKIRS
3194	O80560	238	SGHKD GKIRSWKM
3195	O80560	243	GKIRSWKMDYVLD
3196	O80560	257	GDDSPFKEGLAWQ
3197	O80560	266	LAWQAHKGPVNSV
3198	O80560	290	SEGGVIKIWTWES
3199	O80560	299	TWESMEKSLSLRL
3200	O80560	308	SLRLEEKHMAALL
3201	O80560	340	ISSSEVKCLLADN
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3203	O80560	367	LWDGRTKELLKVF
3204	O80560	371	RTKELLKVFNSEG
3205	O80560	399	AAEDEM KAKIAST
3206	O80560	401	EDEM KAKIASTSK
3207	O80560	407	KIASTSKKEKPHG
3208	O80560	408	IASTSKKEKPHGF
3209	O80560	410	STSKKEKPHGFLO

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3214	Q13568	41	WVNGEKKLFCIPW
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3216	Q13568	69	IFKAWAKETGKYT
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3219	Q13568	87	ADPAKWKANLRCA
3220	Q13568	96	LRCALNKSDFRL
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3228	Q13568	384	ELILFQKGQTNTP
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3231	Q13568	459	RMVEQFKELHHIW
3232	P56477	40	QWVNGEKKLFYIP
3233	P56477	41	WVNGEKKLFYIPW
3234	P56477	96	LRCALNKSDFQL
3235	P56477	175	APYSLPKEDTKWP
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3237	P56477	367	QREVKTCLFSLEQ
3238	P56477	406	EEWPDVKPREKKL
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3240	P56477	458	HMVEQFKELHHLW
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3242	P29994	52	LNNPPKKFRDCLF
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3245	P29994	74	AQKQFWKAAKPGA
3246	P29994	77	QFWKAAKPGANST
3247	P29994	91	DAVLLNKLHHAAD
3248	P29994	100	HAADLEKKQNETE
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3254	P29994	144	LPALLEKNAMRVT
3255	P29994	168	YIQPFYKLR SIGD
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3260	P29994	235	NKDDILKGGDVVR
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3262	P29994	258	TCDEHRKKQH VFL
3263	P29994	259	CDEHRKKQH VFLR
3264	P29994	279	TSATSSKALWEVE
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3266	P30605	38	EHDSPSKRGKITL
3267	P30605	41	SPSKRGKITLESH

3268	P30605	64	EDRIQIKPVNDED
3269	P30605	121	GTDLDHKVLTIGE
3270	P30605	128	VLTIGEKEIVTAA
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3272	P30605	210	ISEIAPKMIRGRL
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3278	P30605	326	KVVNTIKELHTVP
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3282	P30605	547	EVQTILKDGFNK
3283	P30605	553	KDGFNIKASKALA
3284	P30605	556	FNIKASKALAKKR
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3286	P30605	561	SKALAKKRKQQVA
3287	P30605	563	ALAKKRKQQVARV
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3294	P36035	201	FGLWTDKSSRKWP
3295	P36035	205	TDKSSRKWPYITC
3296	P36035	230	WCDTYEKFLGVRW
3297	P36035	260	IEDAPVKARSFLS
3298	P36035	296	FRDDGWKILFWFS
3299	P36035	320	LLWPETKYFTKVL
3300	P36035	324	ETKYFTKVLKARK
3301	P36035	327	YFTKVLKARKLIL
3302	P36035	330	KVLKARKLILSDA
3303	P36035	347	GGEPLPKANFKQK
3304	P36035	351	LPKANFKQKMVSM
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3307	P36035	363	MKRTVQKYWLLFA
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3312	Q8NCM2	75	YGELTDKKTIEKV
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3315	Q8NCM2	99	FEVLLYKKNRTPV
3316	Q8NCM2	100	EVLLYKKNRTPVW
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3318	Q8NCM2	129	LFLCTFKDITLTK
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3320	Q8NCM2	144	IEDDSTKGWTKFA
3321	Q8NCM2	148	STKGWTKFARLTR
3322	Q8NCM2	171	QLTPMNKTEVVHK
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3325	Q8NCM2	201	YKQEAPKTPPHII

3326	Q8NCM2	214	LHYCAF K TTWDWV
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3331	Q8NCM2	324	SLFSSL K VVRLLR
3332	Q8NCM2	337	LGRVARK L DHYLE
3333	Q8NCM2	415	WEGGPS K DSLIVS
3334	Q15058	37	THSSRL K LHLKSD
3335	Q15058	41	RLKLHL K SDMSEC
3336	Q15058	59	LLRSAG K VRDINR
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3338	Q15058	98	RRTTRN K ESSLLV
3339	Q15058	113	LEDTTE K TAETRL
3340	Q15058	126	TLQRRAK T DSA EK
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3343	Q15058	142	AEIDS V KMTLNVG
3344	Q15058	158	ENNGV S KESRTNV
3345	Q15058	171	RIVNNA K NSFVAS
3346	Q15058	194	IEMMAD K KYKETF
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3348	Q15058	197	MAD K KYKETF SAP
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3350	Q15058	238	SGHLTT K PTQSKL
3351	Q15058	243	TKPTQ S KLDIKVL
3352	Q15058	247	QSKLD I KVLGTGN
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3359	Q7M6Z4	53	FDFV F G K NSTQDE
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3362	Q7M6Z4	107	SVVE G Q K GII P RA
3363	Q7M6Z4	130	N P SID F K IKVSYI
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3368	Q7M6Z4	172	TVIV G A K ECQVES
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3371	Q7M6Z4	253	GSERV T K TGNTGE
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3373	Q7M6Z4	287	LGD P RR K SSHIPY
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3379	Q7M6Z4	364	EMEF E I K LLREAL
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3386	Q38997	79	LNRRKIKNMEMEE
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3390	Q38997	167	VVHRDLKPENLLL
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3392	Q38997	180	DSKCNVKIADFGL
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3399	Q38997	314	DTVQQAkkIDEEI
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3407	O43474	252	SVISVSKGSPDGS
3408	O43474	276	PPRTCpKIKQEAV
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3419	O43474	494	RPFQCQKCDRAFS
3420	Q15349	7	MDLSMKKFVRRF
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3426	Q15349	63	SQFELLKVLGQGS
3427	Q15349	72	GQGSYGVFLVRK
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3430	Q15349	91	GQLYAMKVLKKAT
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3435	Q15349	123	NHPFIVKLHYAFQ
3436	Q15349	133	AFQTEGKLYLILD
3437	Q15349	152	LFTRLSKEVMFTE
3438	Q15349	162	FTEEDVKFYLAEL
3439	Q15349	186	IIYRDLKPENILL
3440	Q15349	199	DEEGHIKITDFGL
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3442	Q15349	214	E A I D H D K R A Y S F C
3443	Q15349	262	S L P F Q G K D R K E T M
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3458	Q86UP2	85	S V P R D F K L S D A L A
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3460	Q86UP2	116	S V R E R K K K E K K Q K
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3462	Q86UP2	119	E R K K K E K K Q K P V L
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3464	Q86UP2	122	K K E K K Q K P V L E E Q
3465	Q86UP2	131	L E E Q V I K E S D A S K
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3467	Q86UP2	141	A S K I P G K K V E P V P
3468	Q01650	7	M A G A G P K R R A L A A
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3510	Q12502	354	QLEEQVKIKESEK
3511	Q5VZK9	17	ELIESIKDVIGRK
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3514	Q5VZK9	29	KIKISVKKKVKLE
3515	Q5VZK9	30	IKISVKKKVKLEV
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3519	Q5VZK9	40	LEVKGDKVENKVL
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3523	Q5VZK9	90	MIVETE KCSISMK
3524	Q5VZK9	96	KCSISMKMASPED
3525	Q5VZK9	116	IGTCLRKIFPGLS
3526	Q5VZK9	128	SPVRIMKKVSMEP
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3529	Q5VZK9	226	FTKLSSKDLKLST
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3539	O75581	130	LDGSLRKVLFWQE
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3541	O75581	195	LDYEEQKLYWADA
3542	O75581	202	LYWADAKLNF IHK
3543	O75581	208	KLNF IHKSNLDGT
3544	O75581	221	NRQAVVKGSLPHP
3545	O75581	252	SILACNKYTGEGL
3546	O75581	303	CLMSPVKPFYQCA
3547	O75581	315	ACPTGVKLENGK
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3560	P53281	21	NELEFLKESNVIS
3561	P53281	37	FELINSKLPEKWD
3562	P53281	75	DGDLSLKTGDKIQ
3563	P53281	85	KIQVLEKISPDWY
3564	P53281	94	PDWYRGKSNNKIG
3565	P53281	98	RGKSNNKIGIFPA
3566	P53281	108	FPANYVKPAFTRS
3567	P53281	118	TRSASPKSAEAAS
3568	P53281	214	GASSAFKSFSGKL
3569	P53281	219	FKSFGSKLGNAAI
3570	Q9HCC9	7	MMNRFRKWLYKPK
3571	Q9HCC9	11	FRKWLYKPKRSDP
3572	Q9HCC9	13	KWLYKPKRSDPQL
3573	Q9HCC9	44	DSLDRKDPQRCT
3574	Q9HCC9	129	AMRPLAKELTRSL
3575	Q9HCC9	156	LNTYTEKMREALR
3576	Q9HCC9	183	SAMVPVKSPREYY
3577	Q9HCC9	249	PLNLDRKVEDMSE
3578	Q9HCC9	266	FHTLLRKIRDLLQ
3579	Q9HCC9	323	EGPLSAKAKDPDA
3580	Q9HCC9	325	PLSAKAKDPDAEL
3581	Q9HCC9	436	WADPQEKGGPG
3582	Q9HCC9	454	SLPASEKEEDLSN
3583	Q9HCC9	512	HRTGGMKLSATVI
3584	Q9HCC9	522	TVIFNPKSPTSLD
3585	Q9HCC9	551	MDGGPHKLSTGAT
3586	Q9HCC9	584	VERLREKCSPPGV
3587	Q9HCC9	601	YAAGLAKASDRAP
3588	Q9HCC9	627	SNGREP KAPTSDK
3589	Q9HCC9	633	KAPTSDKCLPHTS
3590	Q9HCC9	695	GSCSSDKMGPEAA
3591	Q9HCC9	715	PQATREKIRSRFH
3592	Q9HCC9	754	DLRSILKTLFEVM
3593	O22042	35	LSGFVKGINSSIR
3594	O22042	50	RIGLFSKPPPGLP
3595	O22042	60	GLPAPRKEEAPSI
3596	O22042	70	PSIRWRKGELIGC
3597	O22042	97	GELLAIKQVLIAP
3598	O22042	126	EEVQLLKNLSHPN
3599	O22042	164	ISSLLEKFGSFPE
3600	O22042	178	VIIMYTKQLLLGL
3601	O22042	198	IMHRDIKGANILV
3602	O22042	207	NILVDNKGCIRLA
3603	O22042	219	ADFGASKKVELA
3604	O22042	220	DFGASKKVELAT
3605	O22042	231	ATVNGAKSMKGTP
3606	O22042	234	NGAKSMKGTPYWM
3607	O22042	270	IEMATGKPPWSEQ
3608	O22042	290	LHIGRTKAHPPIP
3609	O22042	304	DLSPEAKDFLMKC
3610	O22042	309	AKDFLMKCLHKEP
3611	O22042	313	LMKCLHKEPSLRL
3612	O22042	333	HPFVTGKRQEPYP
3613	O22042	376	STCSGLKDVCELG
3614	O22042	393	SIIYPQKSNNSGF
3615	Q3KQU3	56	DTPPAMKNATSSK

3616	Q3KQU3	62	KNATSSKQLPLEP
3617	Q3KQU3	92	SPSSEAKSRGPTP
3618	Q3KQU3	129	SDSPPTKQEVKKA
3619	Q3KQU3	133	PTKQEVKKAGERH
3620	Q3KQU3	134	TKQEVKKAGERHK
3621	Q3KQU3	140	KAGERHKLAKERR
3622	Q3KQU3	143	ERHKLAKERREER
3623	Q3KQU3	151	RREERAKYLAACK
3624	Q3KQU3	156	AKYLAACKAVWLE
3625	Q3KQU3	157	KYLAACKAVWLEK
3626	Q3KQU3	163	KAVWLEKEEKAKA
3627	Q3KQU3	166	WLEKEEKAKALRE
3628	Q3KQU3	168	EKEEKAKALREKQ
3629	Q3KQU3	173	AKALREKQLQERR
3630	Q3KQU3	188	LEEQRLKAEQORRA
3631	Q3KQU3	203	EERQRQKLEKNKE
3632	Q3KQU3	206	QRQKLEKNKERYE
3633	Q3KQU3	208	QKLEKNKERYEAA
3634	Q3KQU3	220	AIQRSVKKTWAEI
3635	Q3KQU3	221	IQRSVKKTWAEIR
3636	Q3KQU3	245	HSSPGHKTSRCS
3637	Q3KQU3	260	SAVNLPKHVDSII
3638	Q3KQU3	268	VDSIINKRLSKSS
3639	Q07820	208	SGATSRKALETLR
3640	Q07820	234	FQGMLRKLDIKNE
3641	Q07820	238	LRKLDIKNEDDVK
3642	Q07820	244	KNEDDVKSLSRVM
3643	Q07820	276	FGAFVAKHLKTIN
3644	Q07820	279	FVAKHLKTINQES
3645	Q07820	302	DVLVRTKRDWLVK
3646	Q07820	308	KRDWLVKQRGWDG
3647	Q7L590	71	GETRDEKENLATL
3648	Q7L590	110	PAPRREKTNEELQ
3649	Q7L590	127	NLQEQMKALQEQ
3650	Q7L590	134	ALQEQLKVTTIKQ
3651	Q7L590	139	LKVTTIKQTASPA
3652	Q7L590	149	SPARLQKSPVEKS
3653	Q7L590	154	QKSPVEKSPRPPL
3654	Q7L590	161	SPRPPLKERRVQR
3655	Q7L590	187	PALPRTKRVARTP
3656	Q7L590	194	RVARTPKASPPDP
3657	Q7L590	201	ASPPDPKSSSSRM
3658	Q7L590	222	QTISRNKPSGITR
3659	Q7L590	267	SSTEMNKKMTGRK
3660	Q7L590	268	STEMNKKMTGRKL
3661	Q7L590	273	KKMTGRKLIRLSQ
3662	Q7L590	281	IRLSQIKEKMARE
3663	Q7L590	283	LSQIKEKMAREKL
3664	Q7L590	288	EKMAREKLEEIDW
3665	Q7L590	302	TFGVILKKVTPQS
3666	Q7L590	303	FGVILKKVTPQSV
3667	Q7L590	313	QSVNSGKTFSIWK
3668	Q7L590	319	KTFSIWKLNDRD
3669	Q7L590	340	LFGEVHKALWKTE
3670	Q7L590	344	VHKALWKTEQGTV
3671	P93819	55	EALNGVKMELIDA
3672	P93819	67	AAFPLLKGVVATT
3673	P93819	94	VGGFPRKEGMERK

3674	P93819	100	KEGMERKDVMSKN
3675	P93819	105	RKDVMSKNVSIYK
3676	P93819	111	KNVSIYKSQAAAL
3677	P93819	126	HAAPNCKVLVVAN
3678	P93819	142	TNALILKEFAPSI
3679	P93819	151	APSIPEKNISCLT
3680	P93819	180	VPVSDVKNVI IWG
3681	P93819	200	PDVNHAQVQTSSG
3682	P93819	208	QTSSGEPVRELV
3683	P93819	215	PVRELVKDDAWLD
3684	P93819	237	RGAAIIKARKLSS
3685	P93819	240	AI IKARKLSSALS
3686	P93819	311	IDEVSRKKMDLTA
3687	P93819	312	DEVSRKKMDLTAE
3688	P93819	321	LTAEELKEEKDLA
3689	P93819	324	EELKEEKDLAYSC
3690	Q9SJL6	20	DVYSSAKRILLKA
3691	Q9SJL6	25	AKRILLKARDGIE
3692	Q9SJL6	51	DLASSVKRDITEV
3693	Q9SJL6	74	WRSIPVKSQRDLW
3694	Q9SJL6	83	RDLWRRKTEQVGE
3695	Q9SJL6	100	LNLSLEKYMSRNQ
3696	Q9SJL6	108	MSRNQRKMLEAKE
3697	Q9SJL6	144	QAMSSVKNSKRML
3698	Q9SJL6	147	SSVKNSKRMLEES
3699	Q9SJL6	163	GVAILSKYAEQRD
3700	Q9SJL6	172	EQRDRLKSAQRKA
3701	Q9SJL6	177	LKSAQRKALDVLN
3702	Q9SJL6	206	RVDTWIKYAGMIA
3703	O50008	14	YPRMGPKRELKFA
3704	O50008	18	GPKRELKFALESF
3705	O50008	28	ESFWDGKSTAEDL
3706	O50008	36	TAEDLQKVSADLR
3707	O50008	47	LRSSIWKQMSAAG
3708	O50008	55	MSAAGTKFIPSNT
3709	O50008	111	PAMEMTKWFDTNY
3710	O50008	136	FSYASHKAVNEYK
3711	O50008	142	KAVNEYKEAKALG
3712	O50008	145	NEYKEAKALGVDT
3713	O50008	166	SYLLLSKAAKGVD
3714	O50008	169	LLSKAAKGVDKSF
3715	O50008	173	AAKGVDKSFELLS
3716	O50008	183	LLSLLPKILPIYK
3717	O50008	189	KILPIYKEVITEL
3718	O50008	196	EVITELKAAGATW
3719	O50008	218	MDLEGQKLQAFTG
3720	O50008	253	IPAEAYKTLTSLK
3721	O50008	259	KTLTSLKGVTAFG
3722	O50008	273	DLVRGKTLDLVK
3723	O50008	279	KTLDLVKAGFPEG
3724	O50008	286	AGFPEGKYL FAGV
3725	O50008	319	LEGIVGKDKLVVS
3726	O50008	321	GIVGKDKLVVSTS
3727	P19358	21	GEGHPDKICDQVS
3728	P19358	42	EQDPFSKVACETA
3729	P19358	50	ACETA AKTGMIMV
3730	P19358	63	FGEITTKARLDYQ
3731	P19358	91	AKGFDYKTCNVLV

3732	P19358	114	QGLHYEKSLEDLG
3733	P19358	148	TILLAHKLNMAMA
3734	P19358	170	WLRPDTKTQVTVE
3735	P19358	187	NGRWVPKRIDTVV
3736	P19358	213	LRTQLQKDIVEKV
3737	P19358	218	QKDIVEKVI PKDM
3738	P19358	222	VEKVI PKDMLDEN
3739	P19358	230	MLDENTKYFIQPS
3740	P19358	254	AGLTGRKII VDAY
3741	P19358	274	GGAFSGKDYSKVD
3742	P19358	278	SGKDYSKVDRSAA
3743	P19358	292	AARWVAKSLVAAG
3744	P19358	301	VAAGLCKRVQVQF
3745	P19358	329	TYGTATKSDDEII
3746	P19358	339	EIIEIIKKNFDLR
3747	P19358	340	IIIEIIKKNFDLRP
3748	Q03164	169	TRSPSVKTSRKP
3749	Q03164	174	VKTSRKPGRPR
3750	Q03164	201	VFSPLNKSETKSG
3751	Q03164	205	LNKSETKSGDKIK
3752	Q03164	209	ETKSGDKIKKDS
3753	Q03164	211	KSGDKIKKDSKS
3754	Q03164	212	SGDKIKKDSKSI
3755	Q03164	213	GDKIKKDSKSIE
3756	Q03164	232	PTFPGVKIKITHG
3757	Q03164	234	FPGVKIKITHGKD
3758	Q03164	239	IKITHGKDISELP
3759	Q03164	246	DISELPKGNKEDS
3760	Q03164	249	ELPKGKEDSLKK
3761	Q03164	254	NKEDSLKKIKRTP
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3763	Q03164	257	DSLKKIKRTPSAT
3764	Q03164	269	TFQQATKIKKLRA
3765	Q03164	271	QQATKIKKL RAGK
3766	Q03164	272	QATKIKKL RAGKL
3767	Q03164	277	KKL RAGKLSPLKS
3768	Q03164	282	GKLSPLKSKFKTG
3769	P53045	38	QLNFMKEYWAAWY
3770	P53045	86	PYFRRWKLQPTKI
3771	P53045	91	WKLQPTKI PSAKE
3772	P53045	103	EQLYCLKSVLLSH
3773	P53045	126	FHPMCEKLGITVE
3774	P53045	139	VFPPLKTMAL EI
3775	P53045	170	HYGVFYKYIHKQH
3776	P53045	174	FYKYIHKQH HRYA
3777	P53045	215	YVMYTGKLLHFTL
3778	P53045	247	FPWSLNKIMPFWA
3779	P53045	289	ESGPEAKASREER
3780	P53045	297	SREERMKKRAENN
3781	P53045	298	REERMKKRAENNA
3782	O75081	47	APRGPRKGGPAPV
3783	O75081	56	PAPVDRKAKASAM
3784	O75081	58	PVDRKAKASAMPD
3785	O75081	70	DSPAEVKTQPRST
3786	O75081	120	RFHGCLKWSMVCL
3787	O75081	176	GARQLSKLKRFLT
3788	O75081	178	RQLSKLKRFLTTL
3789	O75081	219	IEEFHSKLQEATN

3790	075081	237	FVIPFLKANLPLL
3791	075081	255	HCARLAKQTPAQY
3792	075081	292	EVNENGRRTPD
3793	075081	300	RTPDRTKENGSDR
3794	075081	316	HPEHLSKRPCTLN
3795	075081	386	EEVIDHKLTEREW
3796	075081	397	EWAEWKLHNNLL
3797	075081	412	IMDMVEKTRRSLT
3798	075081	445	SDAEDTKKGPAPA
3799	075081	446	DAEDTKKGPAPAA
3800	075081	489	PEDIWRKAEAVN
3801	075081	498	EAVNEVKRQAMSE
3802	075081	507	AMSELQKAVSDAE
3803	075081	515	VSDAERKAHELIT
3804	075081	526	ITTERAKMERALA
3805	Q9Y623	19	AAPFLRKSEKERI
3806	Q9Y623	22	FLRKSEKERIEAQ
3807	Q9Y623	30	RIEAQNKPFDAKT
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3811	Q9Y623	59	QSREGGKVTAKTE
3812	Q9Y623	63	GGKVTAKTEAGAT
3813	Q9Y623	73	GATVTVKEDQVFS
3814	Q9Y623	84	FSMNPPKYDKIED
3815	Q9Y623	87	NPPKYDKIEDMAM
3816	Q9Y623	107	AVLYNLKERYAAW
3817	Q9Y623	130	VTVNPYKWLVPYN
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3819	Q9Y623	147	TAYRGKKRQEAPP
3820	Q9Y623	185	GESGAGKTVNTRK
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3823	Q9Y623	206	AVTGEKKKEEPAS
3824	Q9Y623	207	VTGEKKKEEPASG
3825	Q9Y623	214	EEPASGKMQGTLE
3826	Q9Y623	237	EAFGNAKTVRNDN
3827	Q9Y623	249	NSSRFGKFIRIHF
3828	Q9Y623	260	HFGATGKLASADI
3829	Q02566	18	AAQYLRKSEKERL
3830	Q02566	21	YLRKSEKERLEAQ
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3832	Q02566	48	DKEEYVKAKVVS
3833	Q02566	50	EEYVKAKVVSREG
3834	Q02566	58	VSREGGKVTAETE
3835	Q02566	67	AETENKTVTIKE
3836	Q02566	72	GKTVTIKEDQVMQ
3837	Q02566	83	MQQNPPKFDKIED
3838	Q02566	86	NPPKFDKIEDMAM
3839	Q02566	145	VAAAYRGKKRSEAP
3840	Q02566	146	AAYRGKKRSEAPP
3841	Q02566	271	ETYLLEKSRVIFQ
3842	Q02566	279	RVIFQLKAERNYH
3843	Q91Z83	18	AAPFLRKSEKERL
3844	Q91Z83	21	FLRKSEKERLEAQ
3845	Q91Z83	34	TRPFDLKKDVFVP
3846	Q91Z83	35	RPFDLKKDVFVPD
3847	Q91Z83	43	VFVPDDKEEFVKA

3848	Q91Z83	48	DKEEFV K AKIVSR
3849	Q91Z83	50	EEFV K AKIVSREG
3850	Q91Z83	67	AETENG K TVTVKE
3851	Q91Z83	72	GKT V TV K EDQVMQ
3852	Q91Z83	106	AVLYNL K ERYASW
3853	Q91Z83	206	AIGDR S KKDQTPG
3854	Q9LR74	25	RLYL R N K VERNQS
3855	Q9LR74	72	LTERGG K ILSVHR
3856	Q9LR74	79	ILSVHR K VAARGG
3857	Q9LR74	97	WRSNDG K KEIKDG
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3859	Q9LR74	107	KDGHM Q KG DGLRA
3860	Q9LR74	119	ASDDL Q KVVL CRI
3861	Q9LR74	128	LCRIR Y K KEANVN
3862	Q9LR74	129	CRIR Y K KEANVNE
3863	Q9LR74	170	QEDRE Q KEEADLT
3864	Q9LR74	252	VTQE Q E K DDVMVL
3865	P16603	25	AVLL Y V K RNSIKE
3866	P16603	30	V K RNS I KELLMSD
3867	P16603	59	VVTENN K NYLVLY
3868	P16603	77	TAED Y A K KFSKEL
3869	P16603	78	AED Y A K KFSKELV
3870	P16603	81	Y A K K F S KELVAKF
3871	P16603	86	S K ELV A K F N L N V M
3872	P16603	165	FFNG A A K KAEKHL
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3874	P16603	169	AA K K A E K HLSAAG
3875	P16603	181	GAIR L G K LGEADD
3876	P16603	200	ED Y MA W K D SILEV
3877	P16603	208	SILE V L K DELHLD
3878	P16603	219	LDE Q E A K F T S Q F Q
3879	P16603	275	YI A P I V K SRELFS
3880	P16603	300	LSGS N I K YSTGDH
3881	P16603	317	PSN P L E K VEQFLS
3882	P16603	336	ET I F D L K PLDPTV
3883	P16603	343	PLD P T V K V P F P T P
3884	P16603	357	TIG A A I K HYLEIT
3885	P16603	384	AP N A D V K E K L T L L
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3889	P15531	12	RT F I A I K PDGVQR
3890	P15531	26	LV G E I I K R F E Q K G
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3892	P15531	39	F R L V G L K F M Q A S E
3893	P15531	49	A S E D L L K E H Y V D L
3894	P15531	56	E H Y V D L K D R P F F A
3895	P15531	66	F F A G L V K Y M H S G P
3896	P15531	85	E G L N V V K T G R V M L
3897	P15531	128	S V E S A E K E I G L W F
3898	Q9Y6K9	7	M N R H L W K S L C E M
3899	Q9Y6K9	35	E E S P L G K P A M L H L
3900	Q9Y6K9	90	A S Q R E E K E F L M C K
3901	Q9Y6K9	96	K E F L M C K F Q E A R K
3902	Q9Y6K9	102	K F Q E A R K L V E R L G
3903	Q9Y6K9	115	L E K L D L K R Q K E Q A
3904	Q9Y6K9	118	L D L K R Q K E Q A L R E
3905	Q9Y6K9	129	R E V E H L K R C Q Q Q M

3906	Q9Y6K9	165	RLEAATKECQALE
3907	Q9Y6K9	255	VVGSERKRGMQLE
3908	O88522	7	MNKHPWKNQLSEM
3909	O88522	35	EESLGGPAMLHL
3910	O88522	90	VSQREEKEFLMCK
3911	O88522	102	KFQEARKLVERLS
3912	O88522	123	QREQALKELEQLK
3913	O88522	129	KELEQLKKCQQQM
3914	O88522	130	ELEQLKKCQQQMA
3915	O88522	165	RLEAATKDRQALE
3916	O88522	249	SHIKSSKGMQLED
3917	Q00653	19	IEYDDFKLNSSIV
3918	Q00653	28	SSIVEPKPAPET
3919	Q00653	47	VIVEQPKQRGFRF
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3923	Q00653	90	NYEGPAKIEVDLV
3924	Q00653	112	AHSLVGGQCSELG
3925	Q00653	127	AVSVGPKDMTAQF
3926	Q00653	143	GVLHVTKKNMMGT
3927	Q00653	144	VLHVTKKNMMGMT
3928	Q00653	153	MGTMIQKLQRQL
3929	Q00653	179	ELEQEAKEKLVMDLS
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3933	Q00653	221	QPIHDSKSPGASN
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3936	Q00653	252	VYLLCDKVQKDDI
3937	Q00653	255	LCDKVQKDDIEVR
3938	Q00653	283	SPTDVHKQYAI VF
3939	Q00653	296	RTPPYHKMKIERP
3940	Q00653	298	PPYHKMKIERPVT
3941	P25208	49	EDTNGSKESFREQ
3942	P25208	69	NVARIMKNAI PQT
3943	P25208	77	AIPQTGKIAKDAK
3944	P25208	80	QTGKIAKDAKECV
3945	P25208	83	KIAKDAKECVQEC
3946	P25208	109	ERCHQEKRKTING
3947	P25208	111	CHQEKRKTINGED
3948	P25208	135	SYVEPLKLYLQKF
3949	P25208	146	KFREAMKGEKGIG
3950	P25208	149	EAMKGEKGIGGAV
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3952	Q39161	21	SSSTKPKRSVLVA
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3955	Q39161	62	FFILKEKFRKGIN
3956	Q39161	65	LKEKFRKGINPQE
3957	Q39161	72	GINPQEKVKIERE
3958	Q39161	74	NPQEKVKIEREPM
3959	Q39161	81	IEREPMKLFMENG
3960	Q39161	93	GIEELAKKSMEEL
3961	Q39161	94	IEELAKKSMEELD
3962	Q39161	106	DSEKSSKDDIDVR
3963	Q39161	114	DIDVRLKWLGLFH

3964	Q39161	123	GLFHRRKHQYGKF
3965	Q39161	128	RKHQYGFMMRLK
3966	Q39161	134	KFMMRLKLPNGVT
3967	Q39161	154	LASVIRKYGEDGC
3968	Q39161	184	DVPEILKGLASVG
3969	Q39161	247	FTNLPRKWNVCVV
3970	Q39161	274	AYMPANKDGRFGF
3971	Q39161	291	GGFFSPKRCEEAI
3972	Q39161	313	DVLPLCKAVLEAY
3973	Q39161	330	TRGNRQKTRMMWL
3974	P30415	34	FSDICPKTCKNFL
3975	P30415	37	ICPKTCKNFLCLC
3976	P30415	47	CLCSGEEKLGKTT
3977	P30415	51	GEKGLGKTTGKKL
3978	P30415	55	LGKTTGKKLCYKG
3979	P30415	56	GKTTGKKLCYKGS
3980	P30415	60	GKKLCYKGSTFHR
3981	P30415	69	TFHRVVKNFMIQG
3982	P30415	84	FSENGKGGESIY
3983	P30415	95	IYGGYFKDENFIL
3984	P30415	102	DENFILKHDRAFL
3985	P30415	116	SMANRGKHTNGSQ
3986	P30415	128	QFFITTKPAPHL
3987	P30415	157	EQIENLKTDAASR
3988	P30415	179	CGVLATKLT KDVF
3989	P30415	182	LATKLT KDVF EKK
3990	P30415	187	TKDVF EKKRKKPT
3991	P30415	188	KDVF EKKRKKPTC
3992	P30415	190	VFEKKRKKPTCSE
3993	P30415	191	FEKKRKKPTCSEG
3994	P30415	227	IRRRRHKRRPKVR
3995	P30415	231	RHKRRPKVRHAKK
3996	P30415	236	PKVRHAKKRRKEM
3997	P30415	237	KVRHAKKRRKEMS
3998	P53253	9	EQFTNQKKVSHLQ
3999	P53253	21	QSLMNTKRSEQPT
4000	P53253	31	QPTFAKKHRFKD
4001	P53253	32	PTEFAKKHRFKDT
4002	P53253	36	AKKHRFKDTLALF
4003	P53253	65	SFIVATKCKDFLA
4004	P53253	67	IVATKCKDFLANC
4005	P53253	81	IILFLSKKPSRHI
4006	P53253	82	ILFLSKKPSRHIG
4007	P53253	99	IDISTSKVTNGSS
4008	P53253	108	NGSSNRKSNSRFF
4009	P53253	118	RFFGNSKNSFVIP
4010	P53253	139	LFAMLLKIYGGDY
4011	P53253	148	GGDYFVKPIKNLA
4012	P53253	151	YFVKPIKNLAISI
4013	P53253	212	GTGQSIKLFTVFR
4014	P53253	219	LFTVFRKYSQFFK
4015	P53253	225	KYSQFFKKLFSLF
4016	P53253	226	YSQFFKKLFSLFL
4017	P53253	237	FLPMPFKMLGKHS
4018	P53253	241	PFKMLGKHSDSMI
4019	P53253	274	RQTAENKPLKKG
4020	P53253	277	AENKPLKKGFNST
4021	Q01705	69	CLSTPCKNAGTCH

4022	Q01705	126	LTLTEYKCRCP PG
4023	Q01705	136	PPGWSGKSCQQAD
4024	Q01705	267	CPGNCKNGGACV
4025	Q01705	395	TNPVNGKAICTCP
4026	Q01705	428	PCEHAGKCLNTLG
4027	Q01705	508	NGHCMDKINEFQC
4028	Q01705	518	FQCQCPKGFNGHL
4029	Q01705	538	CASTPCKNGAKCL
4030	Q01705	542	PCKNGAKCLDGPN
4031	Q01705	581	CHYGSKDGVATF
4032	Q01705	631	YLCLCLKGTTGPN
4033	Q01705	658	SGTCLDKIDGYEC
4034	Q01705	738	DGLNGYKCDCAPG
4035	Q01705	769	VNGGTCKDMTSGY
4036	Q01705	814	DDVAGYKCNCLP
4037	Q01705	839	CATSPCKNSGVCK
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4039	Q01705	875	DINECVKSPCRHG
4040	Q01705	1044	DSYGTYKCTCPQG
4041	Q01705	1069	CDSAPCKNGGRCW
4042	Q01705	1107	CEVAAQKRGIDVT
4043	Q01705	1128	CVDEGDKHYCHCQ
4044	Q01705	1170	LGGFSCKCVAGYH
4045	Q923B3	36	QLDFQKCLYREI
4046	Q923B3	59	VEHHFSKPNVISQ
4047	Q923B3	68	VISQLEKAEDCWP
4048	Q923B3	102	MNSFPSKSPLMKI
4049	Q923B3	107	SKSPLMKIEVVEV
4050	Q923B3	118	EVLTLNKDVAGPR
4051	Q923B3	142	LNPGNLKPAAQPS
4052	Q923B3	149	PAQQPSKRLTDTE
4053	Q923B3	160	TEASRQKFRHFQY
4054	Q923B3	174	ESAGPQKAMSQLR
4055	Q923B3	181	AMSQLRKLCHQWL
4056	Q923B3	194	QPNTRSKKQILEL
4057	Q923B3	195	PNTRSKKQILELL
4058	Q923B3	213	LNALPEKFRVWVE
4059	Q923B3	227	QHPEDCKAVVALL
4060	Q923B3	241	NMTSVSKDDASLA
4061	Q923B3	257	EATDQLKEKRKGV
4062	Q923B3	259	TDQLKEKRKGVAT
4063	Q923B3	261	QLKEKRKGVATLP
4064	Q923B3	302	LLGPTQKTEYHDV
4065	Q923B3	340	SPIPVVKPIHDPN
4066	Q923B3	369	ILEDGVKEMHSIE
4067	Q923B3	385	VGNLQEKGHPQKK
4068	P53370	157	FDESTRKILVVQD
4069	P53370	166	VVQDRNKLKNMWK
4070	P53370	168	QDRNKLKNMWKFP
4071	P53370	172	KLKNMWKFPGLS
4072	P53370	199	FEETGIKSEFRSV
4073	P53370	220	NPGAFGKSDMYII
4074	P53370	230	YIICRLKPYSFTI
4075	P53370	256	DLNDLAKTENTTP
4076	P53370	281	YREGFDKIDLTV
4077	P53370	299	YTGLFYKLYHKEL
4078	P53370	303	FYKLYHKELPENY
4079	P53370	310	ELPENYKTMKID

4080	Q02218	10	LRTCAAKLRPLTA
4081	Q02218	21	TASQTVKTFSQNR
4082	Q02218	70	AWLENPKSVHKS
4083	Q02218	74	NPKSVHKSWDIFF
4084	Q02218	122	AQPNVDKLVEDHL
4085	Q02218	171	IISSTDKLGFYGL
4086	Q02218	184	DESDLDKVFHLPT
4087	Q02218	237	CQWIRQKFETPGI
4088	Q02218	251	QFTNEEKRTLLAR
4089	Q02218	271	EEFLQRKWSSEKR
4090	Q02218	276	RKWSSEKRFGLG
4091	Q02218	291	VLIPALKTIIDKS
4092	Q02218	296	LKTIIDKSSGENV
4093	Q02218	324	LANVIRKELEQIF
4094	Q02218	336	FCQFDSKLEAADE
4095	Q02218	348	EGSGDVKYHLGMY
4096	Q02218	387	DPVVMGKTAEQF
4097	Q02218	389	VVMGKTAEQFYC
4098	Q02218	401	CGDTEGKKVMSIL
4099	Q02218	402	GDTEGKKVMSILL
4100	Q02218	488	AVMYVCKVAAEWR
4101	Q02218	499	WRSTFHKDVVVDL
4102	Q02218	528	TQPLMYKQIRKQK
4103	Q02218	532	MYKQIRKQKPVLO
4104	Q38799	55	EMSADPKVFMGE
4105	Q38799	71	QYQGAYKITKGLL
4106	Q38799	74	GAYKITKGLLEKY
4107	Q38799	79	TKGLLEKYGPERS
4108	Q38799	108	AAYAGLKPVVEFM
4109	Q38799	132	IINSAAKSNYMSA
4110	Q38799	176	ASVPGLKVLAPYS
4111	Q38799	191	DARGLLKAIRDPA
4112	Q38799	230	FCLPIGKAKIERE
4113	Q38799	232	LPIGKAKIEREGK
4114	Q38799	238	KIEREGKDVTIVT
4115	Q38799	258	ALKAAEKLAEEGI
4116	Q38799	288	INASVRKTSRLVT
4117	Q38799	356	DIVRASKRACYRS
4118	P04637	24	TFSDLWKLLPENN
4119	P04637	101	SSVPSQKTYQGSY
4120	P04637	120	LHSGTAKSVTCTY
4121	P04637	132	YSPALNKMFCQLA
4122	P04637	139	MFCQLAKTCPVQL
4123	P04637	164	RAMAIYKQSQHMT
4124	P04637	305	LPPGSTKRALPNN
4125	P04637	319	SSSPQPKKKPLDG
4126	P04637	320	SSPQPKKKPLDGE
4127	P04637	321	SPQPKKKPLDGEY
4128	P04637	351	NEALELKDAQAGK
4129	P04637	357	KDAQAGKEPGRSR
4130	P04637	370	AHSSHLKSKKGQS
4131	P04637	372	SSHLKSKKGQSTS
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4133	P04637	381	QSTSRHKKLMFKT
4134	P04637	382	STSRHKKLMFKTE
4135	P04637	386	HKKLMFKTEGPDS
4136	Q15004	42	TSVSSRKAENKYA
4137	Q15004	46	SRKAENKYAGNP

4138	Q15004	60	CVRPTPKWQKGIG
4139	Q15004	63	PTPKWQKGIGEFF
4140	Q15004	74	FFRLSPKDSEKEN
4141	Q15004	78	SPKDSEKENQIPE
4142	Q15004	93	GSSGLGKAKRKAC
4143	Q15004	95	SGLGKAKRKACPL
4144	Q15004	97	LGKAKRKACPLQP
4145	Q56WK6	8	AQEEVQKSADVAA
4146	Q56WK6	19	AAAPVVKEKPITD
4147	Q56WK6	21	APVVKEKPITDKE
4148	Q56WK6	26	EKPITDKEVTIPT
4149	Q56WK6	37	PTPVAEKEEVAAP
4150	Q56WK6	48	APVSDEKAVPEKE
4151	Q56WK6	53	EKAVPEKEVTPEK
4152	Q56WK6	59	KEVTPEKEAPAAE
4153	Q56WK6	68	PAAEAEKSVSVKE
4154	Q56WK6	73	EKSVSVKEEETVV
4155	Q56WK6	83	TVVVAEKVVVLTA
4156	Q56WK6	94	TAEVQKKALEEF
4157	Q56WK6	95	AEEVQKKALEEFK
4158	Q56WK6	101	KALEEFKELVREA
4159	Q56WK6	110	VREALNKREFTAP
4160	Q56WK6	121	APVTPVKEEKTEE
4161	Q56WK6	124	TPVKEEKTEEKKT
4162	Q56WK6	128	EKTEEEKKTEEET
4163	Q56WK6	129	EKTEEEKKTEEETK
4164	Q56WK6	135	KTEEETKEEEKTE
4165	Q56WK6	139	ETKEEEKTEEEKKE
4166	Q56WK6	143	EKTEEEKKEETTT
4167	Q56WK6	144	EKTEEEKKEETTTE
4168	Q56WK6	152	ETTTEVKVEEEKP
4169	P12004	13	VQGSILKKVLEAL
4170	P12004	14	QGSILKKVLEALK
4171	P12004	20	KVLEALKDLINEA
4172	P12004	77	NLTSMSKILKCAG
4173	P12004	80	SMSKILKCAGNED
4174	P12004	110	EAPNQEKVSDYEM
4175	P12004	117	VSDYEMKLMDLDV
4176	P12004	138	EYSCVVKMPSGEF
4177	P12004	168	CAKDGVKFSASGE
4178	P12004	181	LGNGNIKLSQTSN
4179	P12004	190	QTSNVDKEEEEAVT
4180	P12004	217	YLNFFTKATPLSS
4181	P12004	240	PLVVEYKIADMGH
4182	P12004	248	ADMGHLKYYLAPK
4183	P12004	254	KYYLAPKIEDEEG
4184	P15873	13	EEASLFKRIIDGF
4185	P15873	20	RIIDGFKDCVQLV
4186	P15873	31	LVNFQCKEDGIIA
4187	P15873	77	DLTSLSKILRCGN
4188	P15873	107	LLFEDTKKDRIAE
4189	P15873	108	LFEDTKKDRIAEY
4190	P15873	117	IAEYSLKLMDIDA
4191	P15873	127	IDADFLKIEELQY
4192	P15873	146	PSSEFSKIVRDLS
4193	P15873	168	ITKETIKFVADGD
4194	P15873	183	SGSVI IKPFVDME
4195	P15873	196	HPETS IKLEMDQP

4196	P15873	210	DLTFGAKYLLDII
4197	P15873	217	YLLDIIKGSLSLSD
4198	P15873	242	LFQFDLKSGFLQF
4199	Q9UHG3	36	LRAPPDKIAIIGA
4200	Q9UHG3	56	AYYLRQKFGKDVK
4201	Q9UHG3	59	LRQKFGKDVKIDL
4202	Q9UHG3	62	KFGKDKIDLDFER
4203	Q9UHG3	100	PLNLHMKRFBVKDL
4204	Q9UHG3	104	HMKRFVKDLGLSA
4205	Q9UHG3	140	FIINVIKLVWRYG
4206	Q9UHG3	181	AFSSVEKLLHALG
4207	Q9UHG3	205	LLETLOKAGFSEK
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4209	Q9UHG3	255	AVEGGNKLVCSGL
4210	Q9UHG3	266	GLLOASKSNLISG
4211	Q9UHG3	280	VMYIEEKTTKTYT
4212	Q9UHG3	282	YIEEKTTKTYTGN
4213	Q9UHG3	284	EEKTKTKYTGNPT
4214	Q9UHG3	291	YTGNTPKMYEVVY
4215	Q9UHG3	320	ATPLNRKMSNITF
4216	Q9UHG3	349	IVTTLVKGELNTS
4217	Q9UHG3	364	SSRPIDKFGGLNTV
4218	Q9UHG3	392	VPSVREKEDPEPS
4219	Q9UHG3	406	DGTYYVWKIFSQET
4220	Q9UHG3	415	SQETLTKAQILKL
4221	Q9UHG3	420	TKAQILKLFLSYD
4222	Q02785	10	TDEHIEKDISSRS
4223	Q02785	74	ARVISHKTKKEMD
4224	Q02785	76	VISHKTKKEMDSF
4225	Q02785	77	ISHKTKKEMDSFE
4226	Q02785	117	DSGIAFKNLTAVG
4227	Q02785	151	PAHLISKFTKKSD
4228	Q02785	154	LISKFTKKSDVPL
4229	Q02785	155	ISKFTKKSDVPLR
4230	Q02785	192	GCSTFLKCLSGET
4231	Q02785	221	QSEMMSKYKGYVI
4232	Q02785	223	EMMSKYKGYVIYC
4233	Q02785	238	LDHFHFKITVKET
4234	Q02785	242	FPKITVKETIDFA
4235	Q02785	250	TIDFALKCKTPRV
4236	Q02785	252	DFALKCKTPRVRI
4237	Q02785	260	PRVRIDKMTRKQY
4238	Q02785	264	IDKMTRKQYVDNI
4239	Q02785	287	RHTYATKVGNDFV
4240	Q02785	302	VSGGERKRVSLVE
4241	Q02785	366	IYELFDKTTVLYN
4242	Q02785	383	YFGPADKAVGYFQ
4243	Q02785	395	QRMGWVKPNRMTS
4244	Q02785	420	NRTLDIKPGYEDK
4245	P33302	45	TEARIQKLARTLT
4246	P33302	65	TQSAPNKSDAQSI
4247	P33302	94	APGYDPKLDPNSE
4248	P33302	109	SSAAWVKNMAHLS
4249	P33302	123	ADPDFYKPYSLGC
4250	P33302	132	SLGCAWKNLSASG
4251	P33302	155	VVNIPYKILKSGL
4252	P33302	158	IPYKILKSGLRKF
4253	P33302	163	LKSGLRKFORSKE

4254	P33302	168	RKFQRSKETNTFQ
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4257	P33302	220	DLGADTKISYSGY
4258	P33302	232	YSGDDIKKHFRGE
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4260	P33302	265	VTVARLKTPOQRI
4261	P33302	272	TPQNRKIGVDRES
4262	P33302	300	SHTRNKTVGNDIV
4263	P33302	315	VSGGERKRVSIAE
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4265	P33302	352	EFIRALKTQADIS
4266	P33302	379	AYDLFNKVCVLDD
4267	P33302	396	YYGPADKAKKYFE
4268	P33302	398	GPADKAKKYFEDM
4269	P38075	10	QAEETQKPIIFAP
4270	P38075	23	ETYQYDKFTLNEK
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4272	P38075	47	KWFNEAKEDPRET
4273	P38075	78	SRILLFKELDRHG
4274	P38075	96	NWGTSRKAHDIAT
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4276	P38075	138	TSERYFKTRPRGS
4277	P38075	145	TRPRGSKIGAWAS
4278	P38075	158	RQSDVIKNREELD
4279	P38075	169	LDELTKQKNTERFK
4280	P38075	175	KNTERFKDAEDIP
4281	P38075	215	RFVYRRKTENDPW
4282	P38075	222	TENDPWKVVR LAP
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4286	O43933	174	RLETDTKLLIQPK
4287	O43933	180	KLLIQPKTRRAKE
4288	O43933	185	PKTRRAKENTFSK
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4291	O43933	198	ADAEYKKLHSYGR
4292	O43933	207	SYGRDQKGMMKEL
4293	O43933	211	DQKGMMKELQTKQ
4294	O43933	216	MKELQTKQLQSNT
4295	O43933	259	FSFQSEKKQETSW
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4300	O43933	308	ATSVFHKHCAIHV
4301	O43933	334	FTV TYGKLVKLLS
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4303	O43933	342	VKLLSPKQQQSKT
4304	O43933	347	PKQQQSKTKQNVL
4305	O43933	349	QQQSKTKQNVLSP
4306	O43933	357	NVLSPEKEKQMS
4307	P35056	31	SLQFNQKNNGRLN
4308	P35056	46	PLQGTNKP GISEA
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4310	P35056	112	ANPTQIKGVNDIS
4311	P35056	142	DTGNSEKAWQRGS

4312	P35056	193	QQSGRSKEGVNEQ
4313	P35056	210	WTDQFEKLEKEVS
4314	P35056	213	QFEKLEKEVSENL
4315	P35056	227	INDEIEKEENVSE
4316	P35056	238	SEVEQNKPETVEK
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4318	P35056	266	VWDSIHKDAEEVL
4319	P35056	289	LGEDYLYLGGGRV
4320	P35056	317	NNPNAYKIGCLLM
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4322	P35056	341	AFEAAVKEKPDHV
4323	P35056	343	EAAVKEKPDHVDA
4324	P35056	362	VQTQNEKELNGIS
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4327	P35056	385	KNLEAMKTLAISY
4328	P35056	406	AFTMLDKWAETKY
4329	P15259	33	DAELSEKGTEEAK
4330	P15259	39	KGTEEAKRGAKAI
4331	P15259	43	EAKRGAKAIKDAK
4332	P15259	46	RGAKAIKDAKMEF
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4337	P15259	113	HGEEQVKIWRRSF
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4339	P15259	138	YNSISKERRYAG
4340	P15259	146	RRYAGLKPGEPT
4341	P15259	157	PTCESLKDTIARA
4342	P15259	176	EIVPQIKAGKRVL
4343	P15259	222	IVYELNKELKPTK
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4346	P15259	241	DEETVRKAMEAVA
4347	P25297	18	AERSLHKEHLTEG
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4350	P25297	132	ADIVGRKRIYGME
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4352	P25297	225	ILVAAYKGELEYA
4353	P25297	243	CDARCQKACDQMW
4354	P25297	283	QLDVNAKLELAAA
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4356	P25297	328	LDNHPPKASFKDF
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4358	P25297	342	RHFGQWKYKILL
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4360	P25297	381	IGYAGSKNVYKLL
4361	P25297	385	GSKNVYKLLYDTA
4362	P25297	386	SKNVYKLLYDTAV
4363	P25297	419	VDIIGRKPIQLAG
4364	P25297	442	IGFAYHKLGDHGL
4365	P25297	492	ISAASGKVGAI IA
4366	P25297	515	NCARDGKPTNCWL
4367	P25297	546	LLIPETKRKTLEE
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4369	P25297	571	TLNFRNKNNDIES

4370	P25360	8	RFSHFLKYNAVPE
4371	P25360	26	LDYNELKNLIYTL
4372	P25360	38	LQDELKQETPTG
4373	P25360	74	GEPSSSKRRFTHK
4374	P25360	80	KRRFTHKLKRKLF
4375	P25360	82	RFTHKLKRKLFGS
4376	P25360	84	THKLKRKLFSGSKT
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4379	P25360	124	ELSPQGGTTTSFNK
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4381	P25360	135	NKNFIRKKFFESR
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4383	P25360	150	SVSSEGGKTLFSSY
4384	P25360	167	TNLSDEKLVDDF
4385	P25360	169	LSDEKLVDDFYK
4386	P25360	175	KVDDFYKRMEAKF
4387	P25360	180	YKRMEAKFYERFD
4388	P25360	194	LINDLEKEGIVTR
4389	P25360	281	YSQFNISQKKSLL
4390	P25360	284	FNISQKKSLLKQ
4391	P25360	285	NIKKSQKKSLLKQT
4392	P25360	289	QKKSLLKQTIINL
4393	Q99755	34	SAASGIKRPMASE
4394	Q99755	62	ASGMPICKIGHRS
4395	Q99755	63	SGMPIKIGHRSV
4396	Q99755	78	SGETTYKKTSSA
4397	Q99755	79	GETTYKKTSSAL
4398	Q99755	86	TTSSALKGAIQLG
4399	Q99755	140	YNDFRFKTYAPVA
4400	Q99755	194	DDEFIIKTVQHKE
4401	Q99755	199	IKTVQHKEAEFLQ
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4403	Q99755	225	PRTLLPKFYGLYC
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4405	Q99755	253	LLPRSVKMHIKYD
4406	Q99755	257	SVKMHIKYDLKGS
4407	Q99755	261	HIKYDLKGSTYKR
4408	Q99755	266	LKGSTYKRRASQK
4409	Q99755	272	KRRASQKEREKPL
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4414	Q99755	357	RRPAPQKALYSTA
4415	Q99755	392	IPARNSKGERLLL
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4425	Q06449	193	LKSFGSKLGNAAI
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4435	Q99569	588	RVLEVQKNACGAL
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4463	023522	203	SSVRLPKWIDDVA
4464	023522	217	DLRWMTKQTSWVG
4465	023522	270	VSMPEPKPDQSDP
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4475	082274	63	GDSCYTK EELFAR
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4482	082274	192	PRSRFDKTS AQEQ
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4485	082274	243	LHNEWPKITPSLQ

4486	082274	270	IGDRSFKRLVESL
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4488	082274	317	LKSEYLKRSLNLG
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4576	Q8WZA1	216	HLKDTAKALLRSL
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4578	Q8WZA1	227	GPVFGEKHSKSPA
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4615	Q9Y253	91	GKANLTKYREASV
4616	Q9Y253	131	VQERLQKLOGQPI
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4619	Q9Y253	220	AGISHNKVLAKLA
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4850	P60484	164	VRTRDKKGV TIPS
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5668	Q6AI14	251	MLIAFTKMHKFED
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5677	Q6AI14	481	VRYLDVKKTNKKE
5678	Q6AI14	482	RYLDVKKTNKKES
5679	Q6AI14	485	DVKKTNKKESINE
5680	Q6AI14	486	VKKTNKKESINEE
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5682	Q6AI14	520	HYQVRDKFKKFDH
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5685	Q6AI14	531	DHRYLRKILIRKN
5686	Q6AI14	536	RKILIRKNLPKSS
5687	Q6AI14	540	IRKNLPKSSIVSL
5688	Q92581	61	EEIVSEKQAEESH
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5700	Q13485	45	AIESLVKKLKEKK
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5712	Q13485	340	QVGETFKVPSSCP
5713	Q13485	385	ARLHIGKGVQLEC
5714	Q13485	392	GVQLECKGEGDVW
5715	Q13485	428	PGDAVHKIYPSAY
5716	Q13485	436	YPSAYIKVFDLRQ
5717	Q13485	507	LRMSFVKGWGPDY
5718	O15105	93	GAEADLKALTHSV
5719	O15105	101	LTHSVLKKLKERQ
5720	O15105	102	THSVLKKLKERQL
5721	O15105	104	SVLKKLKERQLEL
5722	O15105	161	LPLLLCKVFRWPD
5723	O15105	175	RHSSEVKRLCCCE
5724	O15105	185	CCESYKINPELV
5725	O15105	220	YPMDFLKPTADCP
5726	O15105	270	VAYWEEKTRVGRL
5727	O15105	306	QLNSDNKSQLVQK
5728	O15105	312	KSQLVQKVRKIG
5729	O15105	316	VQKVRKIGCGIQ
5730	O15105	343	SYPIFIKSATLDN
5731	O15105	359	RTLLVHKVFPGFS
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5734	O15105	401	VQISFVKGWGQCY
5735	Q9HCE7	14	RNGSSIKIRLTVL
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5758	P14359	38	PPVAVWKRKGMFN
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5761	O95863	16	PSDPNRKPNYSEL

5762	095863	152	KDLQARKAFNCKY
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5799	Q9Y5W7	213	KARQKVKNTEFLQ
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5809	Q9C093	26	SPKSFACAFSSGY
5810	Q9C093	40	LGEVLHKFELQDD
5811	Q9C093	59	SRVSSAKLNNFSR
5812	Q9C093	89	HGIITEKPGVATK
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5885	Q86WV6	338	HLRQEEKEEVTVG
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5887	Q86WV6	370	LISGMEKPLPLRT
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5890	Q3TBT3	45	PPNHTLKYLALHL
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5894	Q3TBT3	151	AVCEEKKNLVAHG
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6093	P10636	274	PVDFLSKVSTEIP
6094	P10636	293	PSVGRAKGQDAPL
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6096	P10636	347	SLGEDTKEADLPE
6097	P10636	357	LPEPSEKQPAAAP
6098	P10636	366	AAAPRGKPVSRVP
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6100	P10636	381	KARMVSKSKDGTG
6101	P10636	383	RMVSKSKDGTGSD
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6104	P10636	394	SDDKKAKTSTRSS
6105	P10636	402	STRSSAKTLKNRP
6106	P10636	405	SSAKTLKNRPCLS
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6108	P68363	60	SETGAGKHVPRAV
6109	P68363	96	EQLITGKEDAANN

6110	P68363	112	GHYTIGKEIIDLV
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6112	P68363	163	LSVDYGGKSKLEF
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6122	P68363	401	FDLMYAKRAFVHW
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6139	Q9UHD2	38	GDLFAIKVFNNIS
6140	Q9UHD2	60	REFEVLKKNLHKN
6141	Q9UHD2	61	EFEVLKKNLHKNI
6142	Q9UHD2	65	LKKNLHKNIVKLF
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6163	Q15560	22	DKMVTKKSAEGAM
6164	Q15560	35	DLLRELKAMPITL
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6166	Q15560	74	LAKSLIKSWKKLL
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6224	P47079	262	IANTETKGTVLLH
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6247	P10827	234	RVVDFAKKLPMFS
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6255	A2ASS6	223	RQTRIEKKIEAHF
6256	A2ASS6	224	QTRIEKKIEAHFD
6257	A2ASS6	251	TGQLPHKTPPRIP
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6275	P53322	30	NDGSEKPTVTF
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6303	O15417	270	PFLAESKTKNAAL
6304	O15417	272	LAESKTKNAALQP
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6306	O15417	343	PPPAPPKGPPAPP
6307	O15417	429	PEGLREKNSVIRS
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6311	O15417	492	AAQQAALFLGLEP
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6315	O15417	549	AASSSKKAYLDPG
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6517	Q07307	240	LIGTGFKDWAGGS
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6519	Q07307	332	ASFIWVKTFPLSV
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6934	P38809	128	TKVKPPKNVDTID
6935	P38809	135	NVDTIDKMDVTGL
6936	P38809	161	CTPQRNKNNKVAP
6937	P38809	164	QRNKNNKVAPVLA
6938	P38809	186	VGGRTSKKSTLDE
6939	P38809	218	RAYLFNKANSSTT
6940	P38809	230	TTLDAIKPNSKNI
6941	P38809	234	AIKPNSKNITQFD
6942	P38809	244	QFDSKMKTELVHG
6943	P38809	286	AQESRRKNSIARK
6944	P38809	292	KNSIARKKSLPSR
6945	P38809	293	NSIARKKSLPSRR
6946	P36134	27	RPIFVRKRRREED
6947	P36134	39	DYVATSKDNIHHH
6948	P36134	52	PCDWSAKPSQRQN
6949	P36134	63	QNEEQKSTIRLV
6950	P36134	77	VAMNTPKCQEKKK
6951	P36134	81	TPKCQEKKKKRKG
6952	P36134	82	PKCQEKKKKRKGV
6953	P36134	83	KCQEKKKKRKGVG
6954	P36134	84	CQEKKKKRKGVGT
6955	P36134	86	EKKKKRKGVGTTT
6956	P36134	108	ESIAGYKCVTTES
6957	P36134	120	SERDRLKRSHESE
6958	P36134	142	FAFDQAKGISSKV
6959	P36134	147	AKGISSKVEAEER
6960	P36134	166	QYWRMTKDEPATL
6961	P36134	191	LDMIDDKSVEQFY
6962	P36134	223	IRWHPDKHRYHKS
6963	P36134	228	DKHRYHKS VKTKL
6964	P36134	230	HRYHKS VKTKLFQ
6965	P36134	233	HKSKVTKLFQAIN
6966	P34231	12	HRTPLSKGIWTI
6967	P34231	45	GSTANYKPLTNIY
6968	P34231	58	IGEADIKHINVSK
6969	P34231	64	KHINVSKVIPQIG
6970	P34231	95	DIFGAMKNIADTP
6971	P34231	150	EINGLLKYSDNAT
6972	P34231	190	LVLDLLKDSNPQ
6973	P34231	213	NLTMSEKAQLLPV
6974	P34231	320	TQSSAKKAFAAL
6975	P34231	321	QSSAKKAFAALT
6976	P34231	410	GASTDPKTTFSSL
6977	P34231	441	DILADAKSVQPIS
6978	P34231	463	NILEYLKIPYYR
6979	P34231	483	HANLENKILDCNS

6980	P34231	530	DLYLEGKLLHREH
6981	P34231	574	FNRYMFKQPLWLI
6982	P34231	607	VMIAIIKSGTADD
6983	P34231	614	SGTADDKYGVVFK
6984	P34231	620	KYGVVFKAGPAYT
6985	P34231	665	GSVTNRKGEIYTY
6986	P34231	736	HPDVTPKDSNGPV
6987	Q06689	33	GSTSNYKPITNIY
6988	Q06689	47	GDADISKINVTKV
6989	Q06689	52	SKINVTKVMPQVG
6990	Q06689	83	TIFGALKAIASTE
6991	Q06689	141	ELLTTSKNTTELL
6992	Q06689	200	NMTTEEKTKLSPV
6993	Q06689	202	TTEEKTKLSPVFE
6994	Q06689	214	ELFASSKNITATC
6995	Q06689	244	SLFSSLKTSLAEG
6996	Q06689	269	LVPSSLKPAVQAV
6997	Q06689	307	TQSSSAKAAMGAL
6998	Q06689	337	ESLALSKEAASST
6999	Q06689	381	NNTVLLKYVPYLF
7000	Q06689	408	SLVNITKWAETNA
7001	Q06689	422	TFMPMLKILNSAV
7002	Q06689	439	ITPEQLKEMTPSI
7003	Q06689	476	TMYSCKSHAVQN
7004	Q06689	499	IEGSDFKPYMDAL
7005	Q06689	509	DALNIGKDDLHLD
7006	Q06689	530	MYVPAVKAALAMN
7007	Q06689	562	RSVVSQKLWLALG
7008	Q06689	593	VILNMMKSGSKKD
7009	Q06689	597	MMKSGSKKDNVDV
7010	Q06689	598	MKSGSKKDNVDVI
7011	Q03559	7	MMHFRKKSSISNT
7012	Q03559	36	DDKARLKMRTASV
7013	Q03559	182	HVQTEEKQKKKKK
7014	Q03559	184	QTEEKQKKKKKGL
7015	Q03559	185	TEEKQKKKKKGLF
7016	Q03559	186	EKQKKKKKGLFG
7017	Q03559	187	EKQKKKKKGLFGR
7018	Q03559	188	KQKKKKKGLFGRM
7019	P38079	9	DYVELLLKRGGNEA
7020	P38079	17	GGNEAIKINPPTG
7021	P38079	57	VPLMFRKPVKDRF
7022	P38079	60	MFRKPVKDRFVYY
7023	P38079	94	WIPVRAKYNHVQT
7024	P38079	104	VQTSTQKEHPGYR
7025	P38079	167	CVHSTYKWKYTYI
7026	P38079	194	TTFNLVKARGKDV
7027	P38079	198	LVKARGKDVSNVF
7028	P38079	287	GPVAEKKMPSPAS
7029	P38079	295	PSPASFKSSSDSDS
7030	P38079	304	DSDSSIKEKLKLLK
7031	P38079	306	DSSIKEKLKLLKLLK
7032	P38079	308	SIKEKLKLLKLLKLLK
7033	P38079	310	KEKLKLLKLLKLLKLLK
7034	P38079	311	EKLKLLKLLKLLKLLK
7035	P38079	312	KLKLLKLLKLLKLLK
7036	P38079	314	KLKLLKLLKLLKLLK
7037	P38079	315	LKLLKLLKLLKLLKLLK

7038	P38079	317	KKHKKD	KKKAKKA
7039	P38079	318	KHKKD	KKAKKAK
7040	P38079	319	HKKD	KKAKKAKK
7041	P38079	321	KDKK	KA
7042	Q60821	36	VDGVDF	KAHKAVL
7043	Q60821	39	VDFKAH	KAVLAAC
7044	Q60821	50	ACSEYF	KMLFVDQ
7045	Q60821	57	MLFVDQ	KD
7046	Q60821	81	EFMYTAK	LSLSPE
7047	Q60821	112	TACHTL	KSLAEPS
7048	Q60821	135	AVEGGD	KRAKDEK
7049	Q60821	138	GGDKRAK	DEKAAA
7050	Q60821	141	KRAKDE	KAAATML
7051	Q60821	166	GPGREL	KEERGGQ
7052	Q60821	185	GAEQTE	KADAPRE
7053	Q60821	198	PPPVEL	KPDPTSS
7054	Q60821	228	EVEPAS	KGEDGQE
7055	Q60821	244	AGPATV	KEEGMHL
7056	Q60821	290	GDRTES	KAYGSII
7057	Q60821	298	YGSIIH	KCEDCGK
7058	Q60821	304	KCEDCG	KEFTHTG
7059	Q60821	313	THTGNF	KRHIRIH
7060	Q60821	323	RIHTGE	KPFSCRE
7061	Q60821	332	SCRECS	KAFSDPA
7062	Q60821	341	SDPAAC	KAHEKTH
7063	Q60821	345	ACKAHE	KTHSPLK
7064	Q60821	351	KTHSPL	KPYGCEE
7065	Q60821	360	GCEECG	KSYRLIS
7066	Q8BID6	40	CVVVEG	KVFKAHK
7067	Q8BID6	43	VEGKVF	KAHKNVL
7068	Q8BID6	57	GSSRYF	KTLYCQV
7069	Q8BID6	65	LYCQVQ	KTSDQAT
7070	Q8BID6	84	VTAQGF	KAIIDFM
7071	Q8BID6	126	ACHDFI	KAALDIS
7072	Q8BID6	134	ALDISI	KSDASDE
7073	Q8BID6	198	GGSSYG	KEDQEPK
7074	Q8BID6	204	KEDQEP	KADGPDD
7075	Q8BID6	229	YGSLRI	KEEQISP
7076	Q8BID6	247	SELPSS	KDTAIQN
7077	Q8BID6	271	QPTGRR	KNRKNKE
7078	Q8BID6	274	GRRKNR	KNKETVR
7079	Q8BID6	276	RKNRKN	KETVRHI
7080	Q8BID6	357	PPLTPE	KEEALHQ
7081	Q8BID6	377	RAALMS	KNSLLSL
7082	Q8BID6	384	NLSLSL	KADVLGD
7083	Q8BID6	401	LFEYLP	KGAHSLS
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7086	Q8BID6	419	VIRKKF	KCPYCSF
7087	Q8BID6	434	MHQCIL	KRHMRSH
7088	Q8BID6	453	PCEICG	KKFTRRE
7089	Q9NUD5	12	GAEER	KRGRPQL
7090	Q9NUD5	37	ADGGRE	KMGWAQV
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7092	Q9NUD5	51	KNLAE	KKGEFREP
7093	Q9NUD5	98	AGRGDP	KGRRRDP
7094	Q9NUD5	113	EAVDPR	KKKGAAE
7095	Q9NUD5	114	AVDPR	KKKGAAEA

7096	Q9NUD5	115	VDPRKKKGAAEAG
7097	Q9NUD5	124	AEAGRKKKAEAAA
7098	Q9NUD5	125	EAGRKKKAEAAAA
7099	Q9NUD5	163	AAAGPGKGRFLVR
7100	Q9NUD5	222	SFRSAEKLALFLR
7101	Q9NUD5	233	LRVYEEKREQEDC
7102	Q9NUD5	250	VVLGRSKSSLKTL
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7104	Q9NUD5	275	DIVTWLKRHCDVL
7105	Q9NUD5	286	VLAVPVKVTDRFG
7106	Q9NUD5	299	IWTGEYKCEIELR
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7108	Q9NUD5	334	WYKGQPKTCFKCG
7109	Q9NUD5	338	QPKTCFKCGSRTH
7110	Q9NUD5	369	LSPYCRKGIVCNL
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7112	Q08245	7	MSEIQNKAETAAQ
7113	Q08245	18	AQDVQQKLEETKE
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7115	Q08245	29	KESLQNKGOEVKE
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7130	P31629	11	DTALGQKATSRSG
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7135	P31629	114	GVMHSTKPHQSLE
7136	P31629	153	SGGYPRKKISSLN
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7138	P31629	168	YSQYSQKSIEQAE
7139	P31629	178	QAEEAHKKEHKPK
7140	P31629	179	AEEAHKKEHKPKK
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7142	P31629	184	KKEHKPKKPGKYI
7143	P31629	185	KEHKPKKPGKYIC
7144	P31629	188	KPKKPGKYICPYC
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7146	P31629	205	AKPSVLKKHIRSH
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7148	P31629	227	PCGFSFKTKSNLY
7149	P31629	229	GFSFKTKSNLYKH
7150	P31629	234	TKSNLYKHKRSHA
7151	P31629	237	NLYKHKRSHAHAI
7152	P31629	244	SHAHAIKAGLVPF
7153	P31629	257	TESAVSKLDLEAG

7154	P22227	11	KMNEQM K KTAKTS
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7157	P22227	20	AKTSGQ K GPGGRA
7158	P22227	33	LDRLTL K QDEARP
7159	P22227	94	EEDFLF K SFESLE
7160	P22227	126	SLEYMT K GTKQEK
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7162	P22227	132	K GTKQEKTEVTQE
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7164	P22227	178	CPQAG C KKKLRGK
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7167	P22227	184	KKKLR G KTALRKH
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7169	P22227	206	VCAEC G KAFTSS
7170	P22227	225	LVHT G E K PYQCTF
7171	P22227	236	TFEG C G K RFSLDF
7172	P22227	266	PFDG C E K SFIQSN
7173	P22227	275	IQSN N Q K IHILTH
7174	Q6NZP1	7	MPTAG S KKKAPT
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7176	Q6NZP1	9	TAG S KKKAPTQI
7177	Q6NZP1	32	LDFL P D K LRTKLL
7178	Q6NZP1	36	PD K LRT K LLPFQK
7179	Q6NZP1	42	KLL P FQ K DGIVFA
7180	Q6NZP1	65	DEM G L G KTIQAIA
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7182	Q6NZP1	100	WIE E L E KWIPeLE
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7184	Q6NZP1	163	DE S HY M KSR T AAR
7185	Q6NZP1	171	RTAAR S KILLPMV
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7187	Q6NZP1	209	EAL F P Q KFGTWIE
7188	Q6NZP1	218	TWIE Y A K RYCNAH
7189	Q6NZP1	230	HVRY F G K RRQWDC
7190	Q6NZP1	258	IMIR R L K SEVLSQ
7191	Q6NZP1	268	LS Q L P P K VRQRIP
7192	Q6NZP1	283	L P PA A V K ELNASF
7193	Q6NZP1	294	S F EE W Q K LMRAPN
7194	Q6NZP1	316	LITRM F Q T AI A K
7195	Q6NZP1	327	AKAG A V K DYIKML
7196	Q6NZP1	331	AV K DY I KMLLQND