

1 Suppl. Positive benchmark dataset contains 1167 succinylation lysine fragments in 896 non-h
2 AC Position Fragments
3 B1XA46 100 REYRVAIKGPLTTPV
4 B1XA46 242 KFTEGAFKDWGYQLA
5 B1XB26 62 YAEGYPGKRYGGCE
6 B1XB26 242 RGGLILAKGGSEELY
7 B1XB26 250 GGSEELYKKLNSAVF
8 B1XB26 277 AGKAVALKEAMEPEF
9 B1XB26 293 TYQQQVAKNAKAMVE
10 B1XB26 331 VDKNLTGKEADAALG
11 B1XB26 346 RANITVKNKNSVPNDP
12 B1XB26 354 NSVPNDPKSPFVTSG
13 B1XGN9 115 KHITAGAKKVMTGP
14 B1XGN9 124 VVMTGPSKDNTPMFV
15 B1XGN9 132 DNTPMFVKGANFDKY
16 B1XGN9 192 TVDGFPHKDWRGGRG
17 B1XGN9 213 PSSTGAAKAVGKVLV
18 B1XGN9 217 GAAKAVGKVLPELNG
19 B1XGN9 225 VLPELNGKLTGMAFR
20 B1XGN9 249 DLTVRLEKAATYEQI
21 B1XGN9 257 AATYEQIKAAVKAAA
22 B1XGN9 261 EQIKAAVKAAAEGEM
23 B1XGN9 331 DLIHISKXXXXXXXX
24 B1XEK8 9 SKLFDVFKPGVITGD
25 B1XEK8 72 GASFIAGKGVKSDVP
26 B1XEK8 115 HTDHC AKKLLPWIDG
27 B1XEK8 231 GNVHGVYKPGNVVLT
28 B1XEK8 251 DSQEYVSKKHNLPHN
29 B1XEK8 319 QGQLGNPKGEDQPNK
30 B1XEK8 326 KGEDQPNKKYYDPRV
31 B1XEK8 348 SMARLEKAFQELNA
32 B1XBY2 38 AITTVLAKTYGGAAR
33 B1XBY2 177 IVRGSALKALEGDAE
34 B1XBY2 249 EVEIVGIKETQKSTC
35 B1XBY2 253 VGIKETQKSTCTGVE
36 B1XBY2 295 ERGQVLA KP GTIKPH
37 B1XBY2 314 SEVYILSKDEGGRHT
38 B1X843 63 DKVMEGVKLENRTHA
39 B1X843 107 LQTEAPLKRALIPFG
40 B1X843 117 LIPFGGIKMIEGSCK
41 B1X843 124 KMIEGSCKAYNRELD
42 B1X843 195 YGIDYLMKDKLAQFT
43 B1X843 454 INGGVDEKLMQVGP
44 B1X843 467 GPKSEPIKGDVLNYD
45 B1X843 654 ASLTSVAKLPFAYAK
46 B1XBY6 105 EDLADQIKKGEMNFD
47 B1XBY6 154 PNVAEAVKNAKAGQV
48 B1XBY6 186 DFDADK LKENLEALL
49 B1XBY6 197 EALLVALKKAKPTQA
50 B1XBD9 70 QNTLFAIKRLIGRRF
51 B1XBD9 245 NYLVEEFKDKQGIDL
52 B1XBD9 246 YLVEEFKDKQGIDLR
53 B1XBD9 304 NIKVTRAKLES LVED
54 B1XBD9 359 KVAEFFGKEPRKDVN
55 B1XBD9 502 KEQKITIKASSGLNE
56 B1XBD9 528 ANAEADRKFEELVQT
57 B1XBD9 587 DKA AIEAKMQELAQV
58 B1XDP7 51 FGAPTITKDGVSVAR
59 B1XDP7 117 GMPMDLKR GIDKAV
60 B1XDP7 321 LEDLGQAKRVVINKD
61 B1XDP7 390 AATEVEMKEKKARVE
62 B1XBY5 81 PPAAVLLKKAAGIKS
63 B1X6H1 38 ANRVTQVKDLANDGY
64 B1XD38 115 RQSIKRLKDL ETQSQ
65 B1XDP6 34 LTGSAAAKSTRGEVL
66 B1XDV3 71 AANARA EKINALETV
67 B1XDV3 112 AAGVEVAKSEVRLPN
68 P00366 84 GASIVEDKLVEDLKT
69 P00366 110 RSLRLRIKPCNHVLS
70 P00366 162 DVSVDV KALASLMT
71 P00366 363 GTILGF PKAKIYEGS
72 P00366 415 PTPPEADKIFLERNI
73 P00366 457 SYGRLTFKYERDSNY
74 P00366 503 RISGASEKDIVHSGL
75 P00366 527 QIMRTAMKYNLGLDL
76 P00366 545 AYNNAIEKVFVRVYNE

77	P00346	239	EAGTEVVKAKAGAGS
78	P00346	301	LGKKGIEKNLGIGKI
79	P00889	76	YGGMRGMKGLVYETS
80	Q93077	96	RNDEELNKLLGRVTI
81	Q5QNW6	35	KKRKRSRKESYSVYV
82	Q5QNW6	117	HAVSEGTKAVTKYTS
83	Q5QNW6	121	EGTKAVTKYTSKXX
84	Q71DI3	15	ARKSTGGKAPRKOLA
85	Q71DI3	57	REIRRYQKSTELLIR
86	Q71DI3	80	REIAQDFKTDLRFQS
87	Q71DI3	123	KRVTIMPKDIQLARR
88	P62805	32	DNIQGITKPAIRRLA
89	P62805	78	VTYTEHAKRKTVTAM
90	P62805	92	MDVVYALKRQGRTLY
91	P04912	14	GKAGSAAKASQSRSA
92	P04912	22	ASQSRSAKAGLTFPV
93	P02294	50	SYIYKVLKQTHPDTG
94	Q4AB57	36	RIHRLLRKGNYAERV
95	P84040	80	YTEHAKRKTVTAMDV
96	P10853	109	LLPGELAKHAVSEGT
97	P10853	6	XXMPEPAKSAPAPKK
98	H3BJC6	4	XXXMALKQISSNRC
99	P25688	10	HYHDNYGKNDEVEFV
100	P25688	277	SKMGLINKEEVLLPL
101	P25688	80	NTVHVLAKLRGIRNI
102	P08228	10	MKAVCVLKGDPVQG
103	P08228	123	RTMNVHEKQDDLGGK
104	P30115	195	VSNLPTVKKFLQPGS
105	P30115	138	RYFPAFEKVLKSHGQ
106	D3YZQ9	42	KSKMATLKDQLIVNL
107	D3YZQ9	51	QLIVNLLKEEQAPQN
108	D3YZQ9	163	FIIPNIVKYSPHCKL
109	D3YZQ9	118	TPKIVSSKDYCVTAN
110	D3YZQ9	155	QRNVNIFKFIIPNIV
111	D3YZQ9	113	SLFLKTPKIVSSKDY
112	D6RHN4	5	XXMGSWKTGQSYLA
113	D6RHN4	17	YLAAGLLKNQVAVVT
114	A2AL20	13	DPASDQMKQWKEQRA
115	A2AL20	129	FIQKKAVKNFTDVHP
116	A2AL20	125	DAQLFIQKKAVKNFT
117	A2AL20	171	AGSHMAAKGANLXX
118	M0QWU8	8	MSQAEFDKAAEEVKR
119	Q9QUH0	9	AQEFVNCKIQSGKVV
120	Q9DCC7	178	DAAHPOFKEIQKILK
121	P97807	112	QEYGLDPKIASAIMK
122	P97807	119	KIASAIMKAADEVAE
123	P97807	220	DALSAKSKEFAQVIK
124	P97807	77	VRSTMNFKIGGATER
125	P97807	58	FDTFGELKVPTDKYY
126	P97807	63	ELKVPTDKYYGAQTV
127	P97807	210	VLLPGLQKLHDALSA
128	P35486	244	AASTDYYKRGDFIPG
129	P35486	83	LKADQLYKQKIRGF
130	P35486	63	LTREDGLKYRMMQT
131	P35486	385	RGANQWIKFKSVSXX
132	P35486	77	TVRRMELKADQLYKQ
133	P35486	321	SDPIMLLKDRMVNSN
134	P35486	277	AAVCRSGKGPILMEL
135	P35486	313	EIQEVRSKSDPIMLL
136	P07724	588	TCCKAADKDTCFSTE
137	P07724	543	DICTLPEKEKQIKKQ
138	P07724	229	MKCSSMQKFGERAFK
139	P07724	223	SSVRQRMKCSSMQKF
140	P07724	460	NLGRVGTCCCTLPED
141	E9Q8F4	117	GAQIQGMKEVLASDL
142	E9Q8F4	294	GYAKEMSKEFIEAEM
143	E9Q8F4	70	KEIFQNEKRVALSPA
144	E9Q8F4	171	LNKLSERKTTVLAMD
145	D6RFD7	30	QHSKAAHKQEPGLGF
146	D3Z7X0	478	LMDVAGNKAAALEMA
147	D3Z7X0	535	RLGDDQLKVAKMELK
148	D3Z7X0	439	MSRTAFGKPLVEQGT
149	F6RAZ3	225	TWRAAMLKDNKKPFT
150	F6RAZ3	65	LYLGPILKFGSAQQK
151	Q99J08	393	PDKAAEEKMNQQGAD
152	Q99J08	253	TDPDGNPKCKSKINY

153	Q99J08	51	ARSFDLQKSEAMLRK
154	Q99J08	257	GNPKCKSKINYGGDI
155	Q99J08	11	RVGDLSPKQEEALAK
156	Q8BWT1	209	EMAPIEVKTKKKGQT
157	Q8BWT1	211	APIEVKTKKKGQTMQ
158	Q8BWT1	312	KKAGLSLKDMDLIDV
159	Q8BWT1	137	RNVRFGTKFGLDLKL
160	Q8BWT1	13	GVFIVAAKRTPFQAY
161	Q8BWT1	212	PIEVKTKKKGQTMQV
162	Q8BWT1	214	EVKTKKKGQTMQVDE
163	Q8BWT1	158	GLTDQHVKLPMGMTA
164	Q8BWT1	171	TAENLAAKYNISRED
165	Q8BWT1	234	TTLEQLQKLPSVFKK
166	Q8BWT1	191	LQSQRWKAANEAGY
167	Q9CR57	189	AQKAAGQKAAPPAKG
168	Q9CR57	85	EKADINTKWAATRWA
169	P17182	335	IAKAASEKSCNCLLL
170	P17182	420	IEEELGSKAKFAGRS
171	P17182	228	KEALELLKTAIAKAG
172	P02088	18	AVSCLWGKVNSEVGG
173	P09411	48	KAAPPSIKFCLDNKA
174	P09411	6	XXMSLSNKLTLDKLD
175	P09411	191	KAGGFLMKKELNYFA
176	P09411	192	AGGFLMKKELNYFAK
177	P09411	11	SNKLTLDKLDVKGKR
178	P09411	91	ELKSLLGKDVLFKLD
179	P09411	361	SLMDEVVKATSRGCI
180	Q9DC50	406	STFTSFGKKLTKEEA
181	Q9DC50	181	DSIMNYFKTESEGHC
182	Q9DC50	40	KKYLESVKPFANEDE
183	Q91YY4	133	QLLRAAVKFLDTDTI
184	P51660	139	RAAWDHMKKQNYGRI
185	P51660	275	AVRDNWEKICDFNSA
186	P51660	46	NDLGGDFKIGKGS
187	P51660	662	KGGTVAAKWTIDLKS
188	P51660	724	GNIMLSQKLQMLKLD
189	P51660	57	KGSSAADKVVAEIRR
190	P51660	355	LGVGASVKNPKDLKF
191	P51660	578	TLQTEMWKEGNRIHF
192	P51660	423	LPRSGELKCEAVIAD
193	P01942	41	FASFPTTKTYFPHFD
194	P01942	8	MVLSGEDKSNIKAAW
195	D3Z636	68	IPLKADCKEEHDI PR
196	D3Z636	254	FAFNGEFKNKAFALD
197	D3Z636	256	FNGEFKNKAFALDVI
198	D3Z636	246	PDGKPKENKFAFNGEF
199	D3Z636	100	IPRWTNAKMEIATEE
200	P56480	264	NLKDATSKVALVYQQ
201	P56480	124	EGLVRGQKVLDSGAP
202	P56480	133	LDSGAPIKIPVGPET
203	P56480	198	DLLAPYAKGGKIGLF
204	P32020	511	LLALMTGKMNPQSAF
205	P32020	470	VKDGPGGKEATWVVD
206	P32020	479	ATWVVDVKNKGGSVL
207	P32020	341	GDNTYGGKWVINPSG
208	P32020	491	SVLPNSDKKADCTIT
209	P32020	462	IGGIFAFKVKDGP GG
210	P32020	492	VLPNSDKKADCTITM
211	P32020	454	EGEQFVKKIGGIFAF
212	P32020	443	VFKEIEKKLEEEGEQ
213	P32020	453	EEGEQFVKKIGGIFA
214	P32020	524	AFFQGGKLIAGNMGL
215	P32020	522	QSAFFQGGKLIAGNM
216	P32020	274	FEEKSIIKVVGYDMS
217	P32020	432	SSAGDGFKANLVFKE
218	P32020	464	GIFAFKVKDGP GGKE
219	P32020	282	VVG YDMSKEAARRCY
220	A2BGI8	19	LFADVVPKTAENFRQ
221	D3YVC1	58	RGGAEDKEWIPVTK
222	G3UYH1	54	WHDVAVSKKTFPTVNP
223	Q99J39	167	LLEAQALKLVEGPHV
224	Q99J39	221	CEAVHPVKNWMDMKR
225	Q99J39	346	GLLNVQGGKEHGRNEL
226	P50544	72	KPARAESKSFVGMF
227	Q9WVM8	263	IRADTFSKTVSSGLR
228	Q9WVM8	69	RFEDDLIKRALQYSP

229	Q9WVM8	367	VKGISDTKQLIEEKA
230	Q9WVM8	172	GIIEPEGLKKILSQWK
231	Q9WVM8	327	DRTIDFYKNQRDSIL
232	Q9WVM8	28	TTADILSKAPKTLIS
233	Q8C196	522	NCGVELFKRGVLKEY
234	Q8C196	119	RDELGLNKYMESDGI
235	Q8C196	1444	NLPNNNTKFFVHDNYV
236	Q8C196	889	RDILNMDKTLKGLNS
237	Q8C196	458	AMKEENVKTVLMNPN
238	Q8C196	915	KEIGFSDKQISKCLG
239	Q8C196	612	TLIDLGTKAFAMTNQ
240	Q8C196	1183	VENDAVGKEGRVISH
241	Q8C196	1232	DATRKIAKAFASGP
242	Q8C196	575	ESMEDALKAADTIGY
243	Q8C196	793	SRIGSSMKSVGEVMA
244	Q8C196	1360	TGFKIPQKGILIGIQ
245	Q8C196	841	PANLDDLKKEELSEPSS
246	Q8C196	287	KILESDDRKEPLFGIS
247	Q8C196	400	SFFSLIKKGGKTTIT
248	Q8C196	402	FSLIKKGGKTTITSV
249	Q8C196	307	TGLAAGAKSYKMSMA
250	Q8C196	1479	LFAEAVQKSRTVDSK
251	Q8C196	560	KLNEINEKIAPSAFV
252	Q8C196	831	TPRLPMNKEWPNLD
253	Q8C196	875	VRLTSDKWFLYKMR
254	Q8C196	57	LEDGTKMKGYSGHP
255	Q8C196	1074	PLYKNGVKIMGTSPL
256	Q8C196	757	IKNVVSGKTSACFEP
257	Q8C196	919	FSKQISKCLGLTEA
258	Q8C196	603	GSGICPNKETLIDLG
259	Q8C196	1269	RSFFPVSRTLGVDFI
260	Q8C196	157	GQWLQEEKVPAIYGV
261	Q8C196	55	IVLEDGTKMKGYSG
262	Q8C196	1471	LTNFQVTKLFAEAVQ
263	Q8C196	892	LNMDKTLKGLNSDSV
264	Q8C196	1486	KSRTVDSKSLFHVRQ
265	Q8C196	214	KDVKVFGKGNPTKVV
266	Q8C196	1291	IGESIDEKRLPTLEQ
267	Q8C196	1168	EHPVVLTKFVEGARE
268	F6T930	30	FAAGADIKEMQNRTF
269	F6T930	183	GMTAFVEKRKANFKD
270	F6T930	44	FQDCYSSKFLSHWDH
271	Q9JJL8	337	RAETDTGKEPWGLYR
272	Q9JJL8	195	VVRVVGKPAFSFQP
273	P48962	272	EGANAFFKGAWSNVL
274	P48962	43	LQVQHASKQISAEKQ
275	P48962	92	QALNFAFKDKYKQIF
276	P48962	166	DCLTKIFKSDGLKGL
277	P48962	63	DCVVRIPKEQGFLSF
278	P48962	245	MMQSGRKGADIMYT
279	P51174	81	PHHTEWEKAGEVSRE
280	P51174	165	IPQMTAGKCIGAIAM
281	P51174	66	IFRESVRKFFQEEVI
282	P51174	42	RLETPSAKCLTDVGI
283	P51174	279	ALLGEENKGFYYLMQ
284	P51174	240	FLVENGMKGF IKGRK
285	P45952	69	PVAFPEYDKSGEYFPF
286	P45952	271	IGEGAGFKIAMGAFD
287	P45952	179	IKTKAEKKGDEYVIN
288	P45952	79	EYFPFLIKRAWELGL
289	P45952	212	ARSNPDPKVPASKAF
290	P45952	217	DPKVPASKAFTGFIV
291	P45952	259	FEDVRVPKENVLIGE
292	Q8K2B3	250	SIHRIRAKNTVIATG
293	Q8K2B3	498	ESVMNLDKLRFDAGS
294	Q8K2B3	547	SQLYGDLKHLKTFDR
295	Q8K2B3	167	FSRTEDGKIYQRAFG
296	Q8K2B3	636	YVDIKTGKVTLEYRP
297	Q8K2B3	615	KPIQGQKKPFGEHW
298	Q8K2B3	538	VLQEGCEKISQLYGD
299	Q8K2B3	335	ERYAPVAKDLASRDV
300	Q9CQ69	33	AFPSYFSKGI PNVL R
301	E0CX19	220	THFVDSEKLRVLEEE
302	E0CX19	256	KSKMDQDKSIFEEH
303	E0CX19	54	VITLNRPKFLNALSL
304	E0CX19	249	VLESYHAKSKMDQDK

305	Q61425	95	AGDEFVEKTLSCSLST
306	Q61425	241	HERGDASKEDIDTAM
307	Q61425	212	GKHPVSCKDTPGFIV
308	Q61425	81	LKRMAKKKFTENPKA
309	Q61425	80	SLKRMAKKKFTENPK
310	Q61425	202	ESLVDFCCKTLGKHPV
311	Q61425	206	DFCKTLGKHPVSCKD
312	Q61425	125	EAIVENLKLKNELFQ
313	D3Z0K8	337	AGISTNPKNQKIIVD
314	D3Z0K8	175	RGVDKGGKATLLSAE
315	D3Z0K8	79	EPSPRGTTKWGLGGTC
316	D3Z0K8	329	TRTLNLEKAGISTNP
317	D3Z0K8	158	KVKYFNIKASFVDEH
318	Q78IK2	16	QFQFTGIKKYFNST
319	Q99K67	93	ACLILGVKRPPEEKL
320	Q99K67	707	YPNRDSIKYAEIYGI
321	Q99K67	761	EANPLTWKQLLCDLV
322	Q99K67	253	HELREVSKTGDLRKV
323	Q99K67	732	LRKYGYSKALNGFVK
324	Q99K67	138	IRLIDYEKMVDHRGS
325	Q99K67	780	SSPCEKLKEVVFTKL
326	Q99K67	333	QSLLVVPKSSVVPVE
327	Q99K67	778	SRSSPCEKLKEVVFT
328	Q99K67	286	YDPVEYEKYPERTS
329	Q61176	39	RKAGLLEKLEKETEYD
330	Q61176	41	AGLLEKLEKETEYDVR
331	Q61176	17	IIGAPFSKGQPRGGV
332	Q8BMS1	214	IRADRAKKMGLVDQL
333	Q8BMS1	350	YNGQVLCCKNKFGAP
334	Q8BMS1	436	LIGQLDYKGFEEKADM
335	Q8BMS1	334	FGELALTKESKALMG
336	Q8BMS1	644	YIYQEGSKNKSLNSE
337	Q8BMS1	569	LQEGVDPKKLDALTT
338	Q8BMS1	166	RIATKDRKTVLGVPE
339	Q8BMS1	664	ANLRLPAKPEVSSDE
340	Q8BMS1	129	EGQRMFEKLEKSPKP
341	Q8BMS1	230	EPLGPGIKSPEERTI
342	Q8BMS1	516	LEIITTDKTSKDTTA
343	Q8BMS1	353	QVLCCKKNKFGAPQKN
344	Q8BMS1	646	YQEGSKNKSLNSEMD
345	Q8BMS1	295	EKVKKQTKGLYPAPL
346	Q8BMS1	46	THINYGVKGDVAVIR
347	Q8BMS1	505	HYFSPVDMQLLEII
348	Q8BMS1	460	GVKHKVLKEVESVTP
349	Q8BMS1	390	KGLKTLKDDTTVTGL
350	D6RIL6	193	VDRAGTFKLVFTPKD
351	D6RIL6	106	DSALATQKYSVAVKC
352	D6RIL6	155	FREPIICKNIPRLVP
353	D6RIL6	80	PHVDVQLKYFDLGLP
354	D6RIL6	166	RLVPGWTKPITIGRH
355	P26443	477	VQESLERKFGKHGGT
356	P26443	480	SLERKFGKHGGTIPV
357	P26443	90	DKLVEDLKTRESEEQ
358	P26443	147	SQHRTPCKGGIRYST
359	Q9DCM2	158	QAQHFLEKISTQQVK
360	Q9DCM2	144	SILAAAVKAGMSTAQ
361	Q9DCM2	93	DFGETVKKGSINAM
362	Q9DCM2	74	FKEIPLLKQFFQVPL
363	Q9DCM2	116	EQPEMLEKVSREIWM
364	Q9DCM2	165	KISTQQVKNKLIENT
365	Q9DCM2	167	STQQVKNKLIENTDA
366	Q9DCM2	49	TLIAGIMKDSGNQPP
367	Q9DCM2	193	TVAHVDGKTYMLFGS
368	Q9DCM2	36	YQHLWNIKLQLRPTL
369	H3BJQ7	145	RAHQAEQKVRLLADP
370	P19783	60	TMLSASQKALKEKEK
371	D3Z4U1	45	YVEEVPWKRFEKNGI
372	D3Z4U1	147	VRDIVLQKFAQPYDK
373	D3Z4U1	112	FITLPEVKDRCFATQ
374	D3Z4U1	154	KFAGPYDKGEYSPSV
375	B1ASE2	85	KIPVPEDKYTALVDQ
376	B1ASE2	72	GLVDDFEKKYNALKI
377	B1ASE2	117	LRIQEYEQLEKMRN
378	B1ASE2	78	EKKYNALKIPVPEDK
379	Q9QYR9	447	QLQTFHHKQLGSKSX
380	P12710	36	IQKGKDIKGVSEIVH

381	P12710	49	VHEGKKIKLTITYGP
382	P12710	96	NKMVTTFKGIKSVTE
383	P12710	121	TLGDIVYKRVSKRIX
384	Q91XE0	167	PKAIDQDKFKLSSLD
385	Q91XE0	169	AIDQDKFKLSSLDVV
386	Q91XE0	141	YVSSETIKKLFPSLL
387	Q91XE0	16	QMLQMLEKSLRKYLP
388	Q91XE0	142	VSSETIKKLFPSLLD
389	Q91XE0	256	SQDQIMTKRGYPVYS
390	Q91XE0	159	NLSTGSGKPKAIDQD
391	Q91XE0	161	STGSGKPKAIDQDKF
392	Q91XE0	127	SIQSFQIKHSENILY
393	D3Z106	179	ASECPDLKTKLVVSD
394	D3Z106	507	KELQHHVKSVTAPYK
395	D3Z106	352	PEEYEQWQRTGLSI
396	D3Z106	474	AVVSSPDKDRGEVVK
397	D3Z106	200	LDFCSLIKSASPDHT
398	D3Z106	233	TGYPKMAKHNOGLAF
399	D3Z106	324	YRMVLQQKTSNLRFP
400	D3Z106	514	KSVTAPYKYPRKVEF
401	Q3UUI3	89	QTLFVDSKFKKEEQM
402	Q3UUI3	197	LQKIEGRKLFVSTCI
403	Q3UUI3	46	LPNPSWTKDLRLLED
404	Q3UUI3	57	LLFDQFMKKCEDGSW
405	Q99KIO	689	GGRAIITKSFARIHE
406	Q99KIO	144	EKDLRRAKDINQEVY
407	Q99KIO	31	SVLCQRAKVAMSHFE
408	Q99KIO	411	LAHGLKCKSQFTITP
409	Q99KIO	605	SAAGPWLKFRGHLDN
410	Q99KIO	736	LKDFAPGKPLKCVIK
411	Q99KIO	628	AINIENGKANSVRNA
412	Q99KIO	591	ILIKVKGKCTTDHIS
413	Q99KIO	723	NKIHVVDKLTIQGLK
414	Q99KIO	730	KLTIQGLKDFAPGPK
415	Q99KIO	549	DTYQHPPKDSGQRV
416	Q99KIO	138	EAQVGGKDLRRAKD
417	Q99KIO	233	CPKVIGVKTGSLSG
418	Q99KIO	577	PFDKWDGKDLEDLQI
419	Q99KIO	50	IRYDLLEKNINIVRK
420	Q99KIO	228	PWELKCPKIVGVKLT
421	Q99KIO	401	GRSAAVAKQALAHGL
422	P28474	233	KDKFAKAKEFGASEC
423	Q8BJ64	507	IDAFVRAKADSAYHP
424	Q8BJ64	438	ATSVGWLKLRSANPR
425	Q8BJ64	498	GSHVQSDKEIDAFVR
426	Q8BJ64	486	ALAPFRGKELQPGSH
427	P00329	340	VADFMAKKFPLDPLI
428	P26043	83	LQFKFRAKFFPEDVS
429	Q8BWF0	347	IHDSFVTKFAEAMKK
430	Q8BWF0	114	ERSLLLLRKWYDLMIQ
431	Q8BWF0	390	QVNDAVAKGATVVTG
432	Q8BWF0	123	YDLMIQNKDDLAKII
433	P34914	176	LLDTLAKAKPNEVVFL
434	P34914	371	DPDVSPMKVIRSIPV
435	P34914	55	GPTEQLMKGKITFSQ
436	P34914	504	VLRPEMSKNMEKWIP
437	P34914	57	TEQLMKGKITFSQWV
438	P34914	454	EFYIQQFKKTGFRGP
439	P34914	508	EMSKNMEKWIPFLKR
440	O08749	430	FAANSRAKTNADTDG
441	O08749	104	YYHMAHGKDFASRGI
442	O08749	143	GGIAHLFKQNKVVHV
443	O08749	277	FKFKLNTKVTGATKK
444	O08749	420	GIEFKIGKFPFAANS
445	O08749	122	EVRNLNLEKMMEQKHS
446	O08749	166	KNQVTATKADGSTQV
447	O08749	334	LGIELDPKGRIPVNN
448	O08749	410	GKSEEQLKEEGIEFK
449	O08749	155	VHVNFGKITGKNQV
450	D3YZC0	61	PKEKTFDKILIANRG
451	D3YZC0	140	PGFDGVVKDADEAVR
452	P24270	98	ITRYSKAKVFEHIGK
453	P24270	221	GYGSHTFKLVNADGE
454	P24270	430	VQCAVDVKRFNSANE
455	P24270	449	QVRTFYTKVLNEEER
456	F7CFA5	54	PKELEDFKLQHGSIIL

457	E9PUY9	57	LDFVNKAKWDARNAL
458	E9PUY9	27	KDPGNEVKLRLYALY
459	E9PUY9	126	TFNRPTKKNASIFQM
460	E9PUY9	35	LRLYALYKQATEGPC
461	E9PUY9	46	EGPCNMPKPGMLDFV
462	D3Z563	53	AMKTYVEKVDELKCK
463	D3Z563	37	AKWDSWNKLGTSKE
464	B1AWZ5	105	AVRKALAKDKEWQER
465	B1AWZ5	48	TYFLKPSKTNEFLEN
466	B1AWZ5	57	NEFLENFKNSVHLRT
467	B1AWZ5	45	EFRTYFLKPSKTNEF
468	E9PWY6	323	I IQSMAAKTRRFRSK
469	E9PWY6	42	IRGAGTWKSERVITS
470	D3Z4M7	75	ETCGGDLKQAEIDLH
471	D3Z4M7	64	GYSFVNCKKALETG
472	Q9CZU6	193	AEGMNRAKYWELIYE
473	Q9CZU6	375	LPKDPMFKLVAQLYK
474	Q9CZU6	327	GKDVSDKLRDYIWN
475	Q9CZU6	393	NILLEQGGKAKNPWN
476	Q9CZU6	450	GFPLERPMSMSTDGL
477	Q9CZU6	57	TFKQQHGKTVVGQIT
478	Q99JY0	333	RALAMGYKPKAYLRD
479	Q99JY0	202	QRLSLLSKFRLNFLS
480	Q99JY0	189	KMMLDLNKAKTLGQR
481	Q99KR7	189	KIESFGSKSGKTSKK
482	Q99KR7	166	KTDWLDGKHVVFGHV
483	P19157	128	KALPGHLKPFETLLS
484	P19157	82	RSLGLYGKNQREAAQ
485	Q9EQI8	246	GDFVQAGKSRHVWA
486	Q9EQI8	217	HYKFKFPKAIQTESD
487	Q91Y97	330	ATQEAFMKRAMANCQ
488	Q9DBM2	274	QYAFFAEKSANKWST
489	Q9DBM2	189	FAQTVIGKPIEPRRI
490	Q9DBM2	579	KGWYQYDKPLGRIHK
491	Q9DBM2	586	KPLGRIHKPDPWLSE
492	Q9DBM2	386	EDMNLKKKVFAELSA
493	Q9DBM2	705	AQGSPPKKEWQSLAG
494	Q9DBM2	38	EVRNGLQKASLDHTV
495	Q9DBM2	278	FAEKSANKWSTPSGA
496	Q9DBM2	181	DPVEEAIKFAQTVIG
497	Q9DBM2	572	RFQKGTGKGWYQYDK
498	Q9DBM2	288	TPSGASWKTASAQPV
499	M0QWP3	183	THAPLVDFKFWQFGGN
500	D3Z6F5	255	EYFRDNGKHALIYD
501	D3Z6F5	117	GKGFIGSKTRRRVGL
502	D3Z6F5	448	GVRGYLDKLEPSKIT
503	D3Z6F5	481	GNIRSDGKISEQSDA
504	D3Z6F5	180	IDTIINQKRFNDGTD
505	B2RQC6	1325	TIGSYKNKSELLPTV
506	P52196	14	YRALVSTKWLAESIR
507	P52196	224	LTKDGFEEKSPEELRA
508	P52196	154	RPEPAVFKATLNLSL
509	P52196	175	VLENLQSKRFQLVDS
510	P52196	293	ETRVSQGKSGKAXXX
511	Q9QXX4	485	LGFFGIYKGAACFL
512	P56382	28	KAVRDALKTEFKANA
513	P56382	32	DALKTEFKANAECTS
514	P08249	185	NTFVAELKGLDPAV
515	P08249	78	IETRANVKGYLGPEQ
516	P08249	281	ECSFVQSKETECTYF
517	P08249	296	STPLLLGKKGLEKNL
518	P08249	269	LVDAMNGKEGVVECS
519	P08249	91	EQLPDCLKGCDVVVI
520	P08249	314	KITPFEEKMIAEAI
521	P08249	335	KKGEDFVKNMKXXXX
522	P08249	215	LISQCTPKVDFPQDQ
523	P08249	165	HGVYNPNKIFGVTTL
524	D3YWM4	107	YGFLSENKEFAKRLA
525	Q9DB15	153	VKLIKEIKNYVQGIN
526	Q99LC5	203	ISEWLDQKLTKS DRP
527	Q99LC5	59	SCLVAGTKCDKVVQD
528	Q99LC5	232	LKSGENFKLLYDLAD
529	Q99LC5	301	KTIVAINKDPEAPIF
530	Q99LC5	75	CKVAGVAKVLVAQHD
531	Q99LC5	85	VAQHDAYKGLLPEEL
532	Q99LC5	69	KVVQDLCKVAGVAKV

533	Q61941	331	KAPVLFSEKEMIESMK
534	Q61941	1079	TCDALQAKVRESYQK
535	P38647	360	GIVTDLIKRTIAPCQ
536	P38647	138	PEVQKDTKNVPFKLV
537	P38647	300	ETGVDLTKDNMALQR
538	P38647	394	GGMTRMPKVQQTVQD
539	P38647	206	DSQRQATKDAGQISG
540	P38647	368	RTIAPCQKAMQDAEV
541	P38647	135	YDDPEVQKDTKNVPF
542	P38647	288	ALLRHIVKEFKRETG
543	Q9JHI5	76	IDQTNDFKNLREFWK
544	Q9JHI5	316	VREAFGQKIGQFQLM
545	Q9JHI5	239	MPGFSTSKKLDKLG
546	Q9JHI5	260	ELVFEDCKVPAANVL
547	Q9JHI5	56	QLRHTISKFLQENLA
548	Q5FW57	270	NHTEQTNKVIQKMSH
549	P05202	73	AYRDDNGKPYVLP
550	P05202	404	EFVSYMTKDGRISVA
551	P05202	234	KEIASVVKKKLNFAF
552	P05202	338	LTSPDLRKQWLQEVK
553	P05202	90	AEAQIAAKNLDKEYL
554	P05202	396	EQVERLTKEFSVYMT
555	P05202	363	TQLVSNLKKEGSSHN
556	P05202	185	GYRYYDPKTCGFDFS
557	Q8VCW8	531	ELEDFFLKHPQVQEA
558	Q8VCW8	179	CKGIVFPKQFKTQQY
559	Q8VCW8	478	GYWGEPPKTFETVGG
560	Q8VCW8	182	IVFPKQFKTQQYYDI
561	Q8VCW8	599	YPLTISGKIQKFKLR
562	Q8VCW8	340	SPSFGGKKALEAISR
563	D3Z0E6	189	VFASPGCKKWDTCAP
564	Q8CHT0	129	DRAQVFLKAADM
565	Q8CHT0	461	VYVYPDDKYRETLQL
566	Q8CHT0	551	QVIKETHKPLGDWRY
567	Q8CHT0	113	DAALAARKEWDLKPM
568	Q8CHT0	357	CSRLYVPKSLWLPQIK
569	Q8CHT0	346	AFEYGGQKCSACSRL
570	H3BL62	140	DDRLLEIEKFIDNPRH
571	E9PWN2	479	PVLIRASKQWFVNIT
572	E9PWN2	74	PQTSFPMKLLGRQQS
573	E9PWN2	667	EKGKMSKSLGNVIN
574	E9PWN2	194	FAQAAIEKQKSAFVR
575	E9PWN2	56	DSPQSSSKGGRYRDT
576	E9PWN2	241	GLVYRSYKPVYWSPS
577	E9PWN2	500	KESLKTVKFIPGAAL
578	P42125	275	ISKDSIQKSLHMYLE
579	P42125	270	NFTSFISKDSIQKSL
580	P42125	71	EFTISLEKLENDKSI
581	P42125	283	SLHMYLEKQKKGX
582	P42125	222	PEDQVHASKARVMTK
583	P42125	158	RVMADNPKYTIGLNE
584	A2AQY8	363	ATLQAMDKRLCSWKG
585	Q3TCD4	273	CSSYTFPKMMGSAKA
586	B1AR13	65	RLELVAGKTYRWCV
587	B1AR13	96	RTGLSPLKFKAQETR
588	Q9CQ62	106	TAEIISSKTGKVVHA
589	Q9CQ62	49	KFFQPVLKPLPPDA
590	Q9CQ62	97	SRNIDVLKATAEIS
591	Q9CQ62	73	GGGTGLGKAMTTFLS
592	Q99LB2	93	GIVCHVGKAEDREKL
593	Q99LB2	235	KAREDFIKEAMQIRR
594	Q99LB2	228	SSVLWEEKAREDFIK
595	Q99LB2	106	KLITTALKRHHQGIDI
596	Q8K411	942	GKAVDWAKSGKFTQQ
597	Q8K411	770	RKLPRIKKYLLNCDN
598	Q8K411	848	LVTDPFTFKPCQMKTH
599	Q8K411	1026	ILGPENSKIAKDPSW
600	Q9WTP7	189	PVLQYYQKKGVLETF
601	Q9WTP7	34	ITKHFELKHLSSGDL
602	Q9WTP7	29	TVSSRITKHFELKHL
603	Q9WTP7	57	TEIGVLAKTFIDQGK
604	Q9WTP7	64	KTFIDQGKLIPDDVM
605	Q91ZA3	509	DVYPDGFGKHTLTLS
606	Q91ZA3	492	IINTRFVKGDISTKF
607	Q91ZA3	381	KGYPLRHKQEDIPIS
608	Q8QZS1	300	EQMKVINKMSPTSLK

609	O35459	111	VVVSAGAGKMFSTSGID
610	A2AH52	174	KRLMSLKGAYGIESH
611	A2AH52	38	EARPTTEKSVQPYQRT
612	E9Q1J7	101	DFGMAADKNKFPGDS
613	E9Q1J7	454	AQAEYVEKFANPFPA
614	E9Q1J7	103	GMAADKNKFPGDSVV
615	O09174	269	DWPEMKKKFADVFAK
616	O09174	100	TLLQDNPKLIYARLS
617	O09174	117	GQSGIFSKVAGHDIN
618	O09174	57	RSLALDLKRSQGVTV
619	O09174	204	TQPMGLWKQPRGQNI
620	P62075	53	CFRKCIGKPGGSLDN
621	P63038	462	KPANEDQKIGIEI IK
622	P63038	455	IPALDSLKPANEDQK
623	P63038	236	INTSKGQKCEFQDAY
624	P63038	250	YVLLSEKKISSVQSI
625	P63038	202	RKGVITVKDGKTLND
626	P63038	292	TLVLNRLKVGLQVVA
627	P63038	218	LEIEEGMKFDRGYIS
628	P63038	352	VGEVIVTKDDAMLLK
629	P63038	233	PYFINTSKGQKCEFQ
630	B1AR28	174	GILLYGTKAQREKYL
631	B1AR28	106	AKNDALEKVEDDTLQ
632	B1AR28	618	RNFRSISKAMVENGG
633	G3UYY1	14	TLWASHEKMLSQPLK
634	P29758	392	TKDCDAWKVCLRLRD
635	P29758	386	AIVIRETKDCDAWKV
636	P29758	107	AMKSQVDKLTLSRA
637	Q8R164	184	QGIRDVSKWSEKARK
638	Q8R164	260	DFLLQHVKGSRLHLM
639	Q8R164	191	KWSEKARKPLEALYG
640	Q8R164	271	LHLMPEGKHNHLHRLF
641	Q8R164	74	PGMLGSGKTDFAFQL
642	P51881	155	AGAEREFKGLGDCLV
643	P51881	105	IFLGGVDKRTQFWRY
644	A2A8E8	193	DELFDTTKARHLLVL
645	O55137	42	RSVLRDEKGFALFRAH
646	Q91X34	350	QLMKNGKKNWTLLSY
647	Q91X34	346	QAIAQLMKNKKNWNT
648	Q07417	51	TCRDFAEKELVPIAA
649	Q07417	306	AFGAPLTKLQNIQFK
650	P09671	114	PKGGGEPKGELLEAI
651	Q99P30	178	IMHCFEYKDPETGVN
652	Q99P30	77	EVCFFPGKRDVPVTD
653	Q99P30	20	NNLIDDAKARLRKSD
654	Q99KR3	273	RKLEKDGKIFYTTTP
655	Q99KR3	282	FYTTTPVKKWKAVLX
656	Q9WVL0	177	VANAERFKVDLSPYP
657	P38060	48	RDGLQNEKSIVPTPV
658	P38060	179	LGCPYEGKVSPAKVA
659	P38060	137	VSELFTRKNANCSIE
660	Q9DBT9	40	PASPPEWKDRAETVI
661	Q9DBT9	250	FWAREVKGMIIGLDHP
662	Q9DBT9	788	ESIWYKGVVGNNTS
663	Q9DBT9	312	YESQEKMKLQASWVT
664	Q9DBT9	516	EPVGSEYKQVMQVRG
665	Q9DBT9	141	PVRVDEFKYQMTRTN
666	Q9DBT9	427	LDPNRYGKWT'TTQYT
667	Q9DBT9	216	PAPVTSLKPRPDGTW
668	Q8QZT1	227	KEAWDAGKFASETTP
669	Q8QZT1	171	ATPYGGVKLEDLIVK
670	Q8QZT1	199	NCAENTAKKMNISRQ
671	Q8QZT1	178	KLEDLIVKDGLTDVY
672	Q8QZT1	260	YKRVDVFSKVPKTKTV
673	Q8QZT1	263	VDFSKVPKTKTVFQK
674	Q8QZT1	335	YAVPKVLKYAGLKKE
675	D3Z2F2	191	NIISDAMKKVGRKGV
676	D3Z2F2	125	VLARSIAKEGFEEKIS
677	D3Z2F2	72	EQSWGSPKVTKDGVV
678	E9QPD7	1097	VKDTQAMKEMHFHPK
679	A2CEK3	437	ILKDHWQKFRNFFT
680	Q9QXF8	238	DGSPGFSKFRLSYYP
681	Q9QXF8	191	TGCAPPKNIYYKSD
682	Q9QXF8	201	YKSDLTKDITTSVL
683	Q99MR8	577	YDMQIDNKSFRVLGD
684	P54071	272	IFQEIFDKHYKTDFD

685	P54071	384	RGLEHRGKLDGNQDL
686	P54071	256	STKNTILKAYDGRFK
687	P54071	413	VESGAMTKDLAGCIH
688	B1AXW4	7	XMSSGNAKIGYPAPN
689	B1AXW4	93	AWINTPKKQGGLGPM
690	P10518	252	GADMLMVKPLPYLD
691	P36552	371	DSYTPRDKLWQQLRR
692	Q9CPY7	79	NISGPPLKAGKTRTF
693	Q9CPY7	489	IAGVMTNKDEIPYLR
694	Q9D6R2	58	MKIFDAAKAPIQWEE
695	Q9D6R2	343	KDGKSLTKDLGGNAK
696	Q9D6R2	200	SNVTAVHKANIMRMS
697	Q99L13	296	QDSATSTKTPILLGS
698	Q99L13	78	PDVCKEFKEAGEQVA
699	Q99L13	140	TIDPSVSKELAKEVE
700	Q99L13	320	CSKGYSKKDFSSVFQ
701	Q99L13	241	LDPKLLAKILNMSSG
702	Q99L13	59	PMAKNLMKHGYPLIL
703	D3YVN7	234	RDPELGVKSVQKLLD
704	D3YVN7	88	LAEGGGAKFKKYEEI
705	Q99LP6	94	NLRQRSQKLVVEEAKL
706	E9Q5T5	66	RDPVFNLKHLVFMTR
707	D3Z3B0	129	YINDGSWKGKGTGX
708	Q99LB7	803	LAFTCKLKTSVPFLG
709	Q99LB7	392	ESFTPDHKPLMGEAP
710	Q99LB7	278	CAGVWASKVGRMAGV
711	O35386	108	MRDVALAKQDYMPSD
712	O35386	59	VLTLQQRKFYEENGF
713	O35386	231	KWEGGVNKMYHGIQD
714	P54869	473	QREQFYHKVNFSPPG
715	P54869	83	FNNVEAGKYTVGLGQ
716	P54869	342	LEAFRGLKLEETYTN
717	P54869	243	ENAYDFYKPNLASEY
718	P54869	350	LEETYTNKDVDKALL
719	P54869	327	FLSSSSDKQNNLYKG
720	P54869	447	SSVSDLPKRLDSRRR
721	P54869	256	EYPLVDGKLSIQCYL
722	P54869	221	VAMLIQPKAPLVLEQ
723	P54869	118	QRLMERTKLPWDAVG
724	Q3UNX5	67	DQWTNMEKAGKRLSN
725	Q9CZL5	120	HDCGGLTKRDVKLAQ
726	A2APS4	129	AGKEHMEKYGTKVEH
727	A2APS4	88	ERGSIGTKFSDRTP
728	A2APS4	167	YSLEEVMSKSPVDFD
729	A2APS4	124	QMFYAGKEHMEKYG
730	A2APS4	133	HMEKYGTKVEHFAKI
731	E9Q1G1	70	ETIGKAKKAWNIWAD
732	P11352	86	FGHQENKNEEILNS
733	P11352	146	TALMTDPKYIIWSPV
734	P11352	95	EELNLSLKYVRPGGG
735	P11352	112	PNFTLFEKCEVNGEK
736	P09103	224	NFEGEITKEKLLDFI
737	P09103	202	FSKYQLDKDGVVLFK
738	P47199	298	GIEKGWVKPVIQSEY
739	Q9QXD1	453	QVARFLMKSYLQAQV
740	Q9CZS1	401	GERGFFIKPTVFGDV
741	Q9CZS1	416	QDGMRIAKEEIFGPV
742	Q9CZS1	366	QQGPQVDKEQFERIL
743	H7BWY3	447	YMLLKFAKLRDEFDI
744	Q9R0H0	89	PEEIMWFKKLHMVNF
745	Q9R0H0	90	EEIMWFKKLHMVNFV
746	Q3U367	270	KIMEMSAKGVKPIITL
747	P40936	211	HYMVGPKKFSGVYLE
748	P40936	14	IGGEDYEKEFTPKDY
749	F7D3P8	34	NDITKREKFSPLTAN
750	F7D3P8	31	KSLNDITKREKFSPL
751	D3Z2Y8	139	VKELDSLKSDRLRTI
752	Q8BGA8	551	APYKYPRKVAFISEL
753	Q8BGA8	302	ELPRVDAKTILN TLC
754	D3Z1U3	127	GFEAPTYKDTLLPKL
755	D3Z1U3	93	QDKFGKVKFAVLQTY
756	Q9EQ20	52	DGKFVESKSDKWIDI
757	Q9EQ20	55	FVESKSDKWIDIHNP
758	Q9EQ20	517	KTITSQWKEEDATLS
759	Q9EQ20	391	DGRRIKVKGYENGNF
760	F6RPJ9	160	AVDSEHEKNVMNDAW

761	F6RPJ9	665	MTEVAWTKDELKEAL
762	F6RPJ9	456	VSKSFEGKTDRTQW
763	P62900	75	LNKAVWAKGIRNVPY
764	Q9DCN1	10	SVKRNPKKEMISELH
765	P52825	510	RPASIFTKRCSEAFV
766	P52825	544	KYHGQLTKEAAMQGQ
767	P97450	99	TFKFDDPKFEVIDKP
768	P97450	84	KLKQMYGKGEMDTFP
769	P53395	410	SIGGTYAKPVILPPE
770	P53395	133	DDIAYVGKPLIDIET
771	P53395	265	GFQKAMVKTMSAALK
772	P27773	218	LANKFEDKTVAYTEK
773	P27773	494	PPIIQEEKPKKKKKA
774	A2AIW9	298	QYTGGIKVERDMSN
775	Q9CPU0	88	IPKDKSEKTAWTFSR
776	O35423	334	MGLKFFVKDPEIRLP
777	Q9Z2I8	94	ILAGGRGKGVFNGL
778	Q8JZN5	525	TLNLRFGKNIVEEQL
779	A2A848	205	EMDNGYLKMDNYRIP
780	A2A848	619	ESYYKHLKPLQSKLX
781	A2A848	410	YDQVQSGKLVGGMVS
782	A2A848	607	AKKSPLNKTEVHESY
783	A2A848	506	TVKVFADKLPKIQDR
784	A2A848	224	LMKYAQVKPDGTYVK
785	A2A848	601	ENLFEWAKKSPLNKT
786	A2A848	313	HFLGRYIKETYMRIN
787	P11725	221	HLQAATPKGYEPDPN
788	P11725	231	EPDPNIVKLAEQYAK
789	P11725	289	QGYQVTMKTAKVAAS
790	P11725	70	LKFRIKQKGEYLPPL
791	D3Z096	102	FHDIDDVKKFKPGYL
792	D3Z096	94	VNDPEAEKFHDIDDV
793	D3Z096	105	IDDVKKFKPGYLEAT
794	D3Z096	125	LYKVPDGKPKENKFAF
795	Q9DC69	175	SHLNAMKSSSKSLR
796	P24549	412	VQQIMKFKSVDDVIK
797	E9Q296	548	QKFLGSSKADWMDSA
798	D3YYI5	61	GKFNGTVKAENGKLV
799	F6YFQ5	48	EEEEQQMKRMLQRMD
800	G3UZYZ	116	VDKFVGIKDEDQLEA
801	Q8CG76	244	AGGLLTGKYKYEDKD
802	O35490	386	AAELMQQKEATTEQQ
803	O35490	40	LEKRGYVKAAGPWTP
804	O35490	349	WIRARARKEYWQNL
805	Q99LC3	285	YNKGPWLKQDDWTFH
806	Q99LC3	350	YNAEVGDKWIWLKXX
807	E9QN44	137	KTVRGCSKVLLRPQT
808	P24369	116	RGDGTGGKSIYGERF
809	Q9DBK0	229	CHGHPFLKSVDMFKF
810	Q9DBK0	160	NTFNNIMKESSRFS
811	Q9DB20	192	MIVRIGEKYVDMMSAK
812	Q9DB20	176	QILKLEIKTDPSIMG
813	Q9DB20	162	SELKTVLKSFLSPNQ
814	Q9DB20	199	KYVDMSAKSKIQKLS
815	G3X8P6	351	FDQEMAEEKVGSYLEQ
816	Q60759	240	IRGFILEKGMRLSA
817	D3YTT4	48	EEQKGFQKVAFDFAA
818	D3YTT4	301	QEHLKVRKQFGAPLA
819	Q9DCS3	316	GFWLSQWKKNHSPDE
820	Q9DCS3	267	ALNCVGGKSSTELLR
821	Q9Z2Z6	170	FGIRGFYKGTVLTLM
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823	Q9DB77	92	LASSLTTKGASSFKI
824	Q9WUM5	94	TPGKGGQKHLGLPVF
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827	O88986	380	FSYPVVPKGGKARIRV
828	G3UWG1	73	MEYLENPKKYIPGTK
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830	Q8BMF4	468	KMLEGKGI SVNDFI
831	Q8BMF4	371	GIDLTVKGTGPEGR
832	Q9Z2I9	93	IAKKLGSKDVVIIKAQ
833	P16332	341	MFQPKNSKSLLLRAH
834	P16332	593	RQEFGESKEITSAIK
835	P16332	604	SAIKRVNKFMEEREGR
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837	Q8C5H8	314	DGPWEKQKSSGLNLC
838	A2AFQ2	107	TYHQKKNKIHTLEDF
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840	P62702	233	FVIGKGNKPWISLPR
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842	D3Z6F9	113	FVSKSDAKSMSSTI
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844	O88696	196	IQAEIIMKLLKQLYN
845	G3UX44	178	QTNYASSKAGVIGLT
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848	E9PVP0	275	LPKWVVKSSQFLAP
849	D3Z0Y2	185	FPGVFTKELPSGKK
850	Q9D172	221	LGAKHCVKGVTEAHV
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853	H7BXC3	93	VWAIGTGKTATPQQA
854	H7BXC3	60	REAGITEKVVFEQTK
855	A2ATU0	189	ATKFATVKRYGGEGA
856	A2ATU0	804	SVDPKNVKTLLIFCSG
857	G5E823	362	IKAEMLYKNNPKLLT
858	Q2TPA8	49	KTTQKHPKLLGTIYT
859	Q64374	144	LFPDHSVKKYFDQVD
860	Q64374	244	TVKLPVDKTTSCCFG
861	Q64374	253	TSCCFGKDYSEMYV
862	O88737	890	LAKHSAQKASARPRP
863	Q9CQB4	78	MRHQILPKDQWTKYE
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865	Q3UW66	146	NLPISSGKSHSEPAE
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867	Q3UW66	164	QLDPSFIKTHEDILE
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875	E9Q5L3	278	PETNILGKIGHGYKY
876	Q9JHW2	123	FDIDVPGKITFQESK
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879	F6TEU8	97	RRYKDAAKPVIELYK
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917	Q504N4	135	GRLLQAEKSVRVFER
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921	P63017	328	LRDAKLDKSIHDIIV
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925	Q9D1I5	116	PITGFLQKNKAGGMH
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928	F8WGL3	92	YDATYETKESKEDL
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930	D3YZ54	542	IEPQSTRKAQDFHWL
931	Q9CQA3	276	KKMMATYKKEKRALAX
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969	Q6P1B1	130	IIP TDYWKMAKVL R
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