

Online Supporting Information S3. Benchmark dataset used for studying the Arg-methylation. It contains 1,481 samples, of which 185 are positive and 1,296 negative. These data were extracted from UniProtKB/Swiss-Prot database (version UniProt release 2013_06).

(A) List of 185 positive Arg-methylation sites and sequence

Sample #	Protein ID	Site	Sequences
1	Q9NR22	73	EEMTSRDYYFD
2	Q9UBL3	296	SSGKGRGAKRK
3	Q92934	94	EPSPFRRGRSRS
4	Q92934	96	SPFRGRSRSAP
5	Q7Q2B7	478	DAQGARNAVNL
6	P11911	198	YEDISRGLQGT
7	Q09472	2142	QAGVQRAGLPQ
8	P03372	260	IRKDRRGGML
9	Q01844	300	SGPDNRGRGRG
10	Q01844	302	PDNRGRGRGGF
11	Q01844	304	NRGRGRGGFDR
12	Q01844	309	RGGFDRGGMSR
13	Q01844	314	RGGMSRGGRGG
14	Q01844	317	MSRGRGGGRG
15	Q01844	321	GRGGGRGGMGS
16	Q01844	455	PMNSMRGGGLPP
17	Q01844	464	PPREGRGMPPP
18	Q01844	471	MPPPLRGGPGG
19	Q01844	490	GRMGRGGDRG
20	Q01844	494	GRGGDRGGFPP
21	Q01844	500	GGFPPRGRGRS
22	Q01844	503	PPRGRGRSRGN
23	Q01844	506	GPRGRGNPSG
24	Q01844	563	PPGGDRGRGGP
25	Q01844	565	GGDRGRGGPGG
26	Q01844	572	GPGGMRGGRGG
27	Q01844	575	GMRGGRGGMLD
28	Q01844	581	GGLMDRGGPGG
29	Q01844	589	PGGMFRGGRGG
30	Q01844	592	MFRGGRGGDRG
31	Q01844	596	GRGGDRGGFRG
32	Q01844	600	DRGGFRGGRGM
33	Q01844	603	GFRGGRGMDRG
34	Q01844	607	GRGMDRGGFGG
35	Q01844	615	FGGGRGGPGG
36	Q01844	633	QMGGRRGGRGG
37	Q01844	636	GRRGGRGGPGK
38	P22509	8	PGFSPRGGGFG
39	P22509	15	GGFGGRGGFGD
40	P22509	21	GGFGDRGGRGG
41	P22509	24	GDRGGRGGGRG
42	P22509	28	GRGGRRGGRGG

43	P22509	31	GGRGGRGGFGG
44	P35637	242	GGYEPGRGGG
45	P35637	244	YEPRGRGGGRG
46	P35637	251	GGRGGRGGMGG
47	P35637	259	MGGSDRGGFNK
48	P35637	377	RADFNRRGGNG
49	P35637	383	GGNGRGGRGR
50	P35637	386	NGRGGRRGGP
51	P35637	388	RGGRRGGPMG
52	P35637	394	GGPMRGGYGG
53	P35637	407	SGGGRRGGFPS
54	P35637	473	YGDDRGGRRGG
55	P35637	476	DRRGGRRGGYDR
56	P35637	481	RGGYDRGGYRG
57	P35637	485	DRGGYRGRGGD
58	P35637	487	GGYRRGGDRG
59	P35637	495	DRGGFRGGRRGG
60	P35637	498	GFRGGRRGGDR
61	P35637	503	RGGDRGGFGP
62	P03347	387	NFRNQKMKVC
63	P03347	409	NCRAPRKKGCW
64	P68431	3	MMMARTKQTA
65	P68431	18	GGKAPRKQLAT
66	P62805	4	MMMSGRGKGGK
67	P17096	26	TEKRGRGRPRK
68	P17096	58	TPKRPRGRPKG
69	P17096	60	KRPRGRPKGSK
70	P31942	121	RPIGRRGGYYG
71	O60506	444	MPPPTRGRGRG
72	O60506	510	GAAPSRGRGAA
73	O60506	518	GAAPPGRAGY
74	O60506	536	SARGVRGARGG
75	O60506	539	GVRGARGGAAQQ
76	Q07666	45	LPHRSRGGGGG
77	Q07666	52	GGGSRGGARA
78	Q07666	304	PVPRGRGVGPP
79	P08199	656	GGFGRRGGGRG
80	P08199	660	GRGGRRGGFGG
81	P08199	670	GRGGRRGGGRG
82	P08199	680	GGFGRRGRGGF
83	P08199	682	FGGRRRGGFGG
84	P08199	688	GGFGRRGGFRG
85	P08199	692	GRGGFRGGRRGG
86	P08199	695	GFRGGRRGGGG
87	Q28165	238	DESLFRGRQIK
88	Q28165	259	ISTTDRGFPRA
89	Q28165	263	DRGFPRARYRA
90	Q28165	265	GFPRARYRART
91	Q28165	267	PRARYRARTTN
92	Q28165	269	ARYRARTTNYN
93	Q28165	277	NYNSSRSRFYS
94	Q28165	279	NSSRSRFYSGF

95	Q28165	287	SGFN S RPRGRV
96	Q28165	289	FNSR P RGRVYR
97	Q28165	291	SR P RGRVYRGR
98	Q28165	294	RGRV R GRARA
99	Q28165	296	RVYR G ARATS
100	Q28165	298	YRGR A RATSWY
101	O75925	303	RAKGI R NPDHS
102	Q96PU8	242	PPAAL R TPTPA
103	Q92804	206	SSGD R GGFKN
104	Q92804	528	GGDR S RGGYGG
105	Q92804	535	GYGD R GGGSG
106	Q92804	570	GYGD R GGYGG
107	P09867	194	ASS S QRGRSGS
108	O00267	681	SAGG Q RGGFGS
109	O00267	696	SGG M SRRGRRR
110	O00267	698	GMSR G RGRDN
111	P69697	52	YGR K KRRQRRR
112	P69697	53	GR K KRRQRRR
113	Q15554	17	GRAAG R RASRS
114	Q9NR22	58	PSC P GRGKMSK
115	P15056	671	IFMV G RGYLSP
116	Q5TAQ9	204	LHFN Q RGTWLA
117	Q96EY1	58	TSCG P RALLTL
118	Q96EY1	238	MDTCE R CNGKG
119	Q96EY1	293	PCV V CRGAGQA
120	P06746	83	ATG K LRRKLEKI
121	P06746	152	EKR I PREEMLQ
122	Q92997	27	PLPA E RVTLAD
123	Q92997	212	QSS A SRLMRRH
124	Q92997	342	WDP S PRGCFTL
125	Q92997	698	ELT A SRRQSF
126	Q60487	4	VVV G RRGRGRG
127	Q60487	6	VGG R GRGRGTA
128	Q60487	8	GRGR G RTAAA
129	Q54G21	314	ANLL Q RVAKLG
130	Q9R1E0	248	SGK S PRRAAS
131	Q9R1E0	250	KSP R RAASMD
132	Q13283	435	GPG P RRGGLGG
133	P31943	233	FER M RRGAYGG
134	P31942	287	MGG Y RRDGMDN
135	O60506	496	FQV G ARRGRGR
136	P04264	82	SIS V ARRGGGRG
137	P08729	20	AAF S RRGAQVR
138	Q07666	310	GVG P RRGALVR
139	Q07666	315	RGAL V RRGTPVR
140	Q07666	320	RGTP V RRGAI
141	Q07666	325	RGAI T RRGATVT
142	Q07666	340	PPPT V RRGAPAP
143	Q36736	45	LSPE M RRHYEK
144	P02687	106	SQ G KRRGLSLS
145	P15720	106	MQA K RRGLSLT
146	P25274	105	SQ G KRRGTVLS

147	Q8IZS5	113	ATEVSREDDDR
148	P11940	493	QTMGPRPAAAA
149	Q9JMB7	14	ARGRARGQETV
150	Q9JMB7	49	GDLVGRGRQRG
151	Q9JMB7	371	QPKRRRGPGGT
152	Q8CDG1	74	LVSMFRGMGLD
153	Q8CDG1	95	VPPLGRGVLGR
154	Q86WR7	252	QPKAPRFPSNI
155	Q86WR7	320	RVARGRGLPGP
156	P09651	206	NFGGGRGGGFG
157	P09651	225	GNFSGRGGFGG
158	P22626	203	SSRSGRGGNFG
159	P22626	213	GFGDSRGGGGN
160	P51991	52	TDDSLREHF EK
161	Q99729	245	YGSGRGNRNR
162	P14678	147	MTPQGRGTVAA
163	Q14524	513	HLSLTRGLSRT
164	Q14524	526	KPRSSRGSIFT
165	Q14524	680	ELEESRHKCPP
166	P23246	681	GGQPRGMGPG
167	P68363	339	TIKTKRSIQFV
168	P07437	318	VAAVFRGRMSM
169	Q15554	18	RAAGRASRSS
170	Q86V81	220	TRRGTGGARG
171	O08583	218	TRRGTGGSRG
172	P39748	19	APSAIRENDIK
173	P39748	100	GELAKRSERRA
174	P39748	104	KRSERRAEAEK
175	P39748	192	SPVLMRHILTAS
176	P68433	9	TKQTARKSTGG
177	P31269	140	EPLSARRGDCP
178	Q8CDG1	100	RGVLGRGLSAN
179	Q8CDG1	163	ASSIGRGMDKP
180	Q8CDG1	549	SNELTRWGLSL
181	P04049	563	IFMVG RGYASP
182	P46783	158	RGGFGRGRGQP
183	P46783	160	GFGRRGRGPPQ
184	O76922	13	VIARGRGRGRK
185	O76922	15	ARGRRGRKPN

(B) List of 1,296 negative Arg-methylation sites and sequence

Sequence #	Protein ID	Site	Sequences
1	Q9NR22	229	VAIEDRQYKDF
2	Q9UBL3	324	LFSARQLPPHG
3	Q92934	72	VEIRS RHSSYP
4	Q7Q2B7	222	IDLPERVDVII
5	P11911	9	GLEALRALPLL
6	P11911	118	CGTYLVRNPV

7	Q09472	86	LSELLRSGSSP
8	Q09472	354	HKCQRREQANG
9	Q09472	408	WKNCTRHDPCV
10	Q09472	580	ITQDLRNHLVH
11	Q09472	604	ALKDRRMENLV
12	Q09472	649	LEEKRRTLQK
13	Q09472	1015	TETEERSTELK
14	Q09472	1076	ESLPFRQPVDP
15	Q09472	1324	GEVTVRVVHAS
16	Q09472	1410	RPKCLRTAVYH
17	Q09472	1462	IPKPKRLQEWY
18	P03372	28	LEPLNRPOLKI
19	P03372	158	NSDNRREQGRE
20	P03372	234	IDKNRRKSCQA
21	P03372	256	MKGGIRKDRRG
22	P03372	503	QQQHQLAQLL
23	P03372	515	ILSHIRHMSNK
24	Q01844	614	GFGGRRGGPG
25	Q01844	632	EOMGRRGGRG
26	P22509	76	GGGRGGGGRG
27	P22509	224	VIEDARHPHKY
28	P35637	213	YGQDRGGGRGR
29	P35637	269	KFGGPRDQGSR
30	P35637	274	RDQGRHDSEQ
31	P35637	328	NLYTDRETGKL
32	P03347	299	RDYVDRFYKTL
33	P03347	305	FYKTLRAEQAS
34	P03347	429	KDCTERQANFL
35	P03347	452	NFLQSRPEPTA
36	P03347	502	PLTSLRSLFGN
37	P68431	54	LREIRRYQKST
38	P68431	73	FQRLVREIAQD
39	P68431	117	AIHAKRVTIMP
40	P68431	130	IQLARIRGER
41	P62805	24	HRKVLRDNIQG
42	P62805	68	LENVIRDAVTY
43	P62805	96	LKRQGRRTLYGF
44	P17096	84	PGRKPRGRPKK
45	P31942	19	SDGTVRLRGLP
46	P31942	21	GTVRLRGLPFG
47	P31942	105	YDPPRLLGQR
48	P31942	222	PLNPIRVHIDI
49	O60506	303	TAAQARRRLMS
50	O60506	305	AQARRRLMSGK
51	O60506	446	PPTRGRGRGGR
52	Q07666	13	AARMSRSSGRS
53	Q07666	43	PPLPHRSRGGG
54	Q07666	291	VPVRRGAAPP
55	Q07666	331	GATVTRGVPPP
56	P08199	394	KVRAARTLLAK
57	P08199	604	RIVTDRETGSS
58	O75925	63	KELYRRRFPQK

59	O75925	257	ITSLVRLSTTV
60	O75925	579	LLHSSRFFPYT
61	Q92804	101	GSQGGRAPSYD
62	Q92804	164	HTQDDRDRVSR
63	Q92804	165	TQDDRDRVSR
64	Q92804	185	SQGGGRGGY
65	Q92804	321	SFATRPEFMR
66	Q92804	372	NMNFARRNSCN
67	Q92804	415	GRGGDRGGYGG
68	Q92804	431	GYGGDRSSGGG
69	Q92804	459	GYGGDRGGYGG
70	Q92804	580	GKMGGRNDYRN
71	Q92804	584	GRNDYRNDQRN
72	P09867	82	HKVDGRVVEPK
73	P09867	88	VVEPKRAVSRE
74	O00267	17	EEDSERSSDGE
75	O00267	30	EVDEERRSAAG
76	O00267	130	LQNLWRDQREE
77	O00267	368	GNRYSRKGFLF
78	O00267	571	KVVTVRHQAVT
79	O00267	641	FVCKTRHLVLA
80	O00267	652	GGSKPRDVTNF
81	O00267	783	YGSGRTPMYG
82	P69697	7	EPVDPRLPEWK
83	P69697	56	KRRQRRRPPQG
84	Q15554	28	SGRARRRRHEP
85	Q15554	30	RARRGRHEPGL
86	Q15554	47	GAGEARLEEAV
87	Q15554	69	ALRAFRRGSRYG
88	Q15554	72	AFRRGRYGDFR
89	Q15554	192	TTQKLRNDLLN
90	Q15554	356	QPKNKRMTISR
91	P15056	188	KALMMRGLIPE
92	P15056	260	LFQGFRCQTCG
93	P15056	347	IPQPFRRPADED
94	P15056	360	NQFGQRDRSSS
95	P15056	426	GPQREKRKSSSS
96	Q5TAQ9	161	PALRERELGSS
97	Q96EY1	187	PEELFRKIFGE
98	Q96EY1	272	GPFVMRSTCRR
99	Q96EY1	276	MRSTCRRCGGR
100	Q96EY1	281	RRCGGRGSI II
101	Q96EY1	303	AKQKKRVMIPV
102	Q96EY1	364	LGGTARAQGLY
103	P06746	89	KLEKIRQDDTS
104	P06746	126	TLEDLRKNEDK
105	Q92997	215	ASRLMRRHKRR
106	Q92997	220	RRHKRRRRKQK
107	Q54G21	660	KMMESRNEAIT
108	Q54G21	708	INQLKRDYNTL
109	Q54G21	827	TLETESALSS
110	Q54G21	841	LVENTRLETES

111	Q9R1E0	19	FEPLRQRSC
112	Q9R1E0	313	STFRPRTSSNA
113	Q9R1E0	551	TSAMNRLTPVK
114	Q9R1E0	586	CNGYGRMGVLH
115	Q13283	106	NNQALRRFMQT
116	Q13283	107	NQALRRFMQTF
117	Q13283	283	PASQRPESKP
118	P31943	230	GAGFERMRRGA
119	P04264	30	INYQRRTTSSS
120	P04264	65	GGFGSRSLVNL
121	P04264	199	FIDKVRFLQQ
122	P04264	343	SMDNNRSLDL
123	P08729	48	GASRPVAVRS
124	P08729	305	DLRNRNEISE
125	P15720	10	KRSSFRHGSKM
126	P15720	48	FFGGDRHVPRR
127	P15720	96	NIVSPRTPPPM
128	P15720	162	GGSGSRPGSRS
129	P25274	128	FGYGGRAADYK
130	Q8IZS5	61	EKKVIRHDMPD
131	Q8IZS5	67	HDMPDRTLAAH
132	Q8IZS5	77	HQQKFRLPASA
133	P11940	153	QEAAERAIEKM
134	P11940	166	MLLNRKVFVG
135	P11940	186	AELGARAKEFT
136	P11940	287	QMKQDRITRYQ
137	P11940	331	MMEGGRSKGFG
138	Q9JMB7	6	MTGRARARARG
139	Q9JMB7	36	GYIPPRPQQSP
140	Q9JMB7	51	LVGRGRQGMV
141	Q9JMB7	84	ERGRRRDFHD
142	Q9JMB7	147	EARRLSALLF
143	Q8CDG1	177	FGLTARDPPRL
144	Q86WR7	140	AGKEHRKQDAE
145	Q86WR7	204	QKISERMAGNE
146	Q86WR7	221	PFREGRPGEWR
147	P09651	265	YSGGSRGYGSG
148	P22626	185	HNAEVRKALSR
149	P51991	239	GGNFGRGGNFG
150	Q99729	30	EASRGRGWTGA
151	P14678	228	PPPGMRGPPPP
152	Q14524	179	VKILARGFCLH
153	Q14524	340	CPEGYRCLKAG
154	Q14524	367	FLALFRMLTQD
155	P23246	399	FGPIERAVVIV
156	P68363	105	ANNYARGHYTI
157	P68363	264	LVPYPRIHFP
158	P68363	320	CCLLYRGDVVP
159	P07437	77	TMDSVRSGPFG
160	P07437	162	EEYPDRIIMNTF
161	P07437	282	GSQQYRALVTP
162	P07437	359	CDIPPRGLKMA

163	Q86V81	20	LNRSQRGGRRGG
164	Q86V81	174	VPLDGRPMNIQ
165	Q86V81	197	AQSVNRGGMTR
166	Q86V81	202	RGGMTNRNGAG
167	O08583	56	GGGPMNRPAI
168	O08583	203	GMTRNRGSGGF
169	P39748	70	MGMFYRTIRMM
170	P31269	207	HARSTRKKRCP
171	P31269	233	NMYLTRDRRYE
172	P31269	241	RYEVARLLNLT
173	P04049	100	CCAVFRLLHEH
174	P04049	143	THNFARKTFLK
175	P04049	231	VSSQHRYSTPH
176	P04049	282	IEDAIRSHSES
177	P04049	318	PAQRERAPVSG
178	P04049	333	NKIRPRGQRDS
179	P46783	8	MPKKNRIAIYE
180	P46783	80	GIQYLRDYLHL
181	P46783	96	PATLRRSRPET
182	P46783	105	ETGRPRPKGLE
183	P46783	116	GERPARLTRGE
184	P46783	128	DRDTYRRSAVP
185	O76922	87	SVRGRRLITDL
186	Q9NR22	13	RCLLLRRKMAE
187	Q9NR22	14	CLLLRRKMAEN
188	Q9UBL3	211	ECMTTRQRP GK
189	Q9UBL3	231	TMSKERDVFLV
190	Q9UBL3	315	TTKKARSDPLF
191	Q9UBL3	374	PGDLYRACLYE
192	Q9UBL3	411	GYSMVRASHGV
193	Q9UBL3	592	KDLTYRPMSDM
194	Q92934	116	GRELRRMSDEF
195	Q92934	131	KKGLPRPKSAG
196	Q7Q2B7	84	ELVLFRFASRG
197	Q7Q2B7	88	FRFASRGDCQQ
198	Q7Q2B7	95	DCQQFRSLLHK
199	Q7Q2B7	341	EKDLHRIQIDV
200	Q7Q2B7	447	KNPYFRYTGAP
201	P11911	47	LGEEARLTCEN
202	P11911	96	VNKNHRGLYWC
203	P11911	137	EGTKNRIITAE
204	Q09472	1104	LSTIKRKLDTG
205	Q09472	1133	AWLYNRKTSRV
206	Q09472	1197	YSYQNRHYHFC
207	Q09472	1392	PPNQRRVYISY
208	Q09472	1494	QATEDRLTSAK
209	P03372	37	KIPLERPLGEV
210	P03372	142	SGYTVREAGPP
211	P03372	241	SCQACRLRKC
212	P03372	436	TSSRFRRMMNLQ
213	Q01844	392	VKMNKRTGQPM
214	P22509	56	GGGGFRGRGGG

215	P22509	84	GRGGK R GNQSG
216	P35637	521	EHRQD R RRERPY
217	P03347	275	LNKIV R MYSP
218	P03347	403	EGHT A RNCRAP
219	P68431	129	DIQL A RRIRGE
220	P62805	40	IRRL A RRGGVK
221	P62805	79	TEHAK R KTVTA
222	P31942	93	IFR S SRSEIKG
223	P31942	129	YYGAG R GSMYD
224	P31942	261	NNM Q HRYIELF
225	P31942	301	YGSV G RMGMN
226	P31942	323	LGGY G RGGGGS
227	O60506	103	VMKTY R QREKQ
228	O60506	229	NNHEI R SGKHI
229	O60506	451	RGR G GGGYGY
230	O60506	504	GGR G ARGAAPS
231	O60506	557	GARG G RGGNVG
232	O60506	565	NVGK R KADGY
233	Q07666	10	DDPA A RRSRSS
234	Q07666	204	GKG S MRDKAKE
235	Q07666	436	VKGAY R EHPYG
236	P08199	343	AVVD V RTGTNR
237	P08199	421	DALEI R LVSQD
238	P08199	474	G Q R Q ERTGKNS
239	Q28165	17	GAAG G RGSGPG
240	Q28165	25	GP G RRRHLVPG
241	Q28165	78	EP P RRAPPGA
242	Q28165	200	CGSV N RVTILC
243	Q28165	248	KVIP K RTNRPG
244	O75925	276	TAEI G RNY SMA
245	O75925	528	LIQDY R HPPFHM
246	Q96PU8	106	RIL G PRGLTAK
247	Q92804	221	RDYGP R TDADS
248	Q92804	320	V S FATRRPEFM
249	Q92804	341	GR G GYRGRGGF
250	Q92804	349	GG F QGRGGDPK
251	Q92804	388	RPED S RPSGGD
252	Q92804	406	GERGY R GRGGR
253	Q92804	422	GY G GD R SGGGY
254	P09867	31	TDE S LRSHFEQ
255	P09867	196	SS Q RGRSGSGN
256	P09867	300	Y F AKPRNQGGY
257	O00267	31	VDE E RRSAAGS
258	O00267	65	EED D DRPPKKP
259	O00267	319	DR I KARMSLKD
260	O00267	346	DAEK I RSLGGD
261	O00267	516	LKV L PRDLQLC
262	O00267	582	RKKD N RFAVAL
263	O00267	711	IG Q TVRISQGP
264	O00267	798	LQD G SRTPHYG
265	O00267	831	P N T P SRAEEY
266	O00267	1049	IL G ED R EATGV

267	O00267	1066	EDGIVRMDLDE
268	P69697	78	PTSQSRGDPTG
269	Q15554	13	SDGSGRAAGR
270	Q15554	77	RYGDFRQIRDI
271	Q15554	102	VSRLLRVMQCL
272	P15056	239	THNFVRKTFFT
273	Q5TAQ9	11	SSTDGRTDLAN
274	Q5TAQ9	151	ALPRPRWQALP
275	Q5TAQ9	177	EACGARVVFVQR
276	Q5TAQ9	182	RVFVQRFRLQH
277	Q96EY1	102	ILGVPRNASQK
278	Q96EY1	332	IFITFRVQKSP
279	P06746	102	INFLTRVSGIG
280	P06746	137	LNHHQRIGLKY
281	P06746	258	RRIDIRLIPKD
282	Q92997	145	SAQREPRRRD
283	Q92997	167	AKGERRREPGG
284	Q60487	105	MKEDGRLLASK
285	Q54G21	180	VANGDRVSIKY
286	Q54G21	230	GVIGMRKSAKR
287	Q54G21	793	EESLKRLLKLD
288	Q54G21	1425	IDNSPRQTTTE
289	Q9R1E0	249	GKSPRRAASM
290	Q9R1E0	487	AQPNSRVLGQN
291	Q9R1E0	534	ASVNGRTLPHV
292	Q13283	159	EEPEERQQTPE
293	Q13283	296	QIPPQRQRDQ
294	P31943	16	FVVKVRGLPWS
295	P31943	52	YTREGRPSGEA
296	P31943	192	SRAEVRTHYDP
297	P31943	217	RPGAGRGYNSI
298	P04264	37	TSSSTRRSGGG
299	P04264	386	QITAGRHHGDSV
300	P08729	30	RLSSARPGGLG
301	P08729	46	GLGASRPRVAV
302	P08729	52	PRVAVRSAYGG
303	P08729	64	VGAGIREVTIN
304	P08729	187	DEINHRTAAEN
305	P08729	276	MAKCSRAEAEA
306	P08729	313	ISEMNRAIQRL
307	P08729	317	NRAIQRLQAEI
308	Q36736	14	SAKLDRLDQEF
309	P02687	41	LDSLGRFFGSD
310	P15720	78	RSQHGRPGDDN
311	P15720	166	SRPGSRSGSPV
312	P25274	9	KRPSQRHGSKY
313	P25274	49	FFSSDRGAPKR
314	Q8IZS5	31	MVKEDREATEG
315	Q8IZS5	142	QDESGREETLN
316	Q8IZS5	177	LEEFQRSQKTI
317	P11940	89	IMWSQRDPSLR
318	P11940	206	DMDDERLKDLF

319	P11940	278	QTELRKRFEQM
320	P11940	311	DDERLRKEFSP
321	Q9JMB7	83	AERGGRRRDFH
322	Q9JMB7	145	LMEARLRSAL
323	Q9JMB7	160	EDLIGRCHAFD
324	Q8CDG1	9	VRPLFRGPTPV
325	Q8CDG1	88	RPPSKREVPPPL
326	Q8CDG1	111	MVRKDREEPSR
327	Q8CDG1	156	LLPLGRAASSI
328	Q86WR7	6	MPVTHRKSAS
329	Q86WR7	22	TSPSCRRLRAFS
330	Q86WR7	173	PDPPrELRAP
331	Q86WR7	176	PRRELAPSP
332	Q86WR7	265	TNGAAREPRRT
333	P22626	15	LERKKREKEQF
334	P22626	60	DPASKRSRGFG
335	P22626	228	PGSNFRGGSDG
336	P22626	238	GYGSGRGFGDG
337	P51991	9	KPPPGRPQD
338	P51991	113	KRAVSRSDSVK
339	P51991	143	EEYNLRDYFEK
340	P51991	226	GNFMGRGGNFG
341	Q99729	248	GGRGNRNRGNR
342	Q99729	250	RGNRNRGNRGS
343	P14678	221	PPPGMRPPPPG
344	P23246	7	SRDRFRSRGGG
345	P23246	18	GGGFHRRGGG
346	P23246	25	GGGGRRGLHD
347	P68363	215	YDICRRNLDIE
348	P68363	243	ITASLRFDGAL
349	P68363	308	VKCDPRHGKYM
350	P07437	213	YDICFRTLKLT
351	P07437	241	VTTCLRFPGQL
352	P07437	276	APLTSRGSQOY
353	P07437	306	AACDPRHGRYL
354	P07437	380	QELFKRISEQF
355	Q86V81	63	RPAIARGAAGG
356	Q86V81	79	PAPYSRPKQLP
357	Q86V81	144	YDRSGRSLGTA
358	O08583	189	IDTQRPAQSI
359	P39748	211	EFHLSRILQEL
360	P39748	239	YCESIRGIGPK
361	P39748	332	RLSKSRQGSTQ
362	P39748	355	LSSAKRKEPEP
363	P31269	128	GLPSSRPYGIK
364	P31269	141	PLSARRGDCPT
365	P04049	59	TSNTIRVFLPN
366	P04049	223	RESVSRMPVSS
367	P46783	55	QSLKSRGYVKE
368	O76922	86	GsvrGRRLITD
369	O76922	123	FKVLKRPNWTI
370	O76922	146	ATRLRRSFLYE

371	Q9NR22	368	NAKNV R DLDF T
372	Q9UBL3	181	LTWQ S R T QDEH
373	Q9UBL3	380	ACLY E R V LLAL
374	Q9UBL3	417	ASHG V R K GAWY
375	Q9UBL3	437	PD T A A R L GWSQ
376	Q9UBL3	622	EVDG R R S PPWE
377	Q92934	112	AQ R Y G RELRRM
378	Q92934	142	TATQ M R Q SSSW
379	Q92934	149	SS S W T R V FQSW
380	Q92934	157	Q S W W D R N L GRG
381	Q7Q2B7	40	Q G M A V R LLQEG
382	Q7Q2B7	67	T T H L S R GH T SH
383	Q7Q2B7	299	N L V A L R DAAMK
384	P11911	162	L L F R K R WQNEK
385	Q09472	15	P P SA K R P KLSS
386	Q09472	370	N L PH C R T MKNV
387	Q09472	504	SP Q G M R P MSNM
388	Q09472	626	ES A NN R AEYYH
389	Q09472	1187	L C T I P R DATYY
390	Q09472	1297	R L P S T R L G TFL
391	Q09472	1342	P G M K A R F V DSG
392	P03372	183	SA K E T R Y CAVC
393	P03372	269	M L K H K R Q R DDG
394	Q01844	486	G G P M G R M G GRG
395	P22509	38	G F G G G R G G F G G
396	P22509	58	G G F R G R G G G G G
397	P22509	74	Q S G G G R G R G G G
398	P22509	106	G V F I C R G K EDA
399	P35637	216	Q D R G G R G R G S
400	P35637	234	G G G Y N R S S G G Y
401	P35637	372	S F A T R R A D F N R
402	P35637	518	S R G E H R Q D R R E
403	P03347	20	R W E K I R L R P G G
404	P03347	22	E K I R L R P G G K
405	P68431	41	V K K P H R Y R P G T
406	P68431	43	K P H R Y R P G T V A
407	P68431	50	G T V A L R E I R R Y
408	P68431	64	T E L L I R K L P F Q
409	P68431	84	F K T D L R F Q SSA
410	P62805	18	K G G A K R H R K V L
411	P62805	37	K P A I R R L A R R G
412	P62805	46	R G G V K R I S G L I
413	P17096	24	D G T E K R G R G R P
414	P17096	28	K R G R G R P R K Q P
415	P31942	174	R M R D G R G M G G H
416	P31942	205	R G L P F R A T E N D
417	O60506	381	I H F D E R D G A V K
418	O60506	526	A G Y S Q R G G P G S
419	O60506	554	G V R G A R G G R G G
420	O60506	577	Q P D S K R R Q T N N
421	O60506	578	P D S K R R Q T N N Q
422	Q07666	31	A H P S V R Q T P S R

423	Q07666	282	VPEPSRGRGVP
424	Q07666	284	EPSRGRGVPVR
425	Q07666	346	GAPAPRARTAG
426	P08199	348	RTGTNRKFGYV
427	P08199	554	EGRTIRLELOQ
428	P08199	599	GSVRARIVTDR
429	Q28165	23	GSGPGRRRHLV
430	O75925	248	PKRPSRPINIT
431	O75925	347	LTIPCRALTCS
432	O75925	417	TWAPMRSKKEV
433	O75925	507	ASPVSRTPSLP
434	Q96PU8	53	EISRVRKDMYN
435	Q96PU8	139	KEEQNRGKPNW
436	Q96PU8	205	LNGTYRDANIK
437	Q96PU8	256	IMPLIRQIQTA
438	Q96PU8	320	ATKVRRHDMRV
439	Q96PU8	324	RRHDMRVHPYQ
440	Q92804	216	NFGGHRDYGPR
441	Q92804	334	GSGGRRRGRGG
442	Q92804	335	SGGRRRGRGGY
443	Q92804	411	RGRGRRGGDRG
444	P09867	122	EEHHLRDYFEQ
445	P09867	140	EIMTDRGSGKK
446	P09867	284	GNFGGRSSGPY
447	O00267	71	PPKKPRHGGFI
448	O00267	190	KIGEERATAIS
449	O00267	198	AISLMRKFIAIY
450	O00267	610	GPHSGREGEIR
451	O00267	615	REGEIRHLFRS
452	O00267	619	IRHLFRSFAFL
453	O00267	767	TSTYGRTPMYG
454	O00267	989	IQVKVRDITYLD
455	P69697	49	GISYGRKKRRQ
456	Q15554	41	GGPAERGAGEA
457	Q15554	274	PREPARQLRNP
458	P15056	199	CCAVYRIQDGE
459	P15056	362	FGQRDRSSSAP
460	P15056	384	IDDLIRDQGFR
461	P15056	435	SSSEDNRMKT
462	Q5TAQ9	65	TSTESRGTDTTE
463	Q5TAQ9	94	INDENRVHDRS
464	Q5TAQ9	117	EQPRRRVQRKR
465	Q5TAQ9	125	RKRANRDQDSS
466	Q5TAQ9	134	SSDDERALEDW
467	Q5TAQ9	149	TSALPRPRWQA
468	Q5TAQ9	159	ALPALRERELG
469	Q96EY1	25	PAISGRGARPP
470	Q96EY1	340	KSPVFRRDGAD
471	Q96EY1	341	SPVFRRDGADI
472	P06746	182	VCGSFRRGAE
473	Q92997	73	PCFNBRVVSWL
474	Q92997	105	PPPMERTGGIG

475	Q92997	200	DDSTSRFFSSST
476	Q92997	219	MRRHKRRRRKQ
477	Q60487	16	AAAARREPGGA
478	Q60487	96	GVCANRYLAMK
479	Q60487	144	YVALKRTGQYK
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481	Q54G21	613	VQTLHRLVEDN
482	Q54G21	673	VAQMRROIIDL
483	Q54G21	746	YALKIRAFKKS
484	Q54G21	1031	KDVIKRVTVVEY
485	Q9R1E0	222	HSKFIRVQNEG
486	Q9R1E0	264	KFAKSRGRAAK
487	Q13283	32	PDMLHRFYGKN
488	Q13283	78	CHTKIRHVDAH
489	Q13283	302	PQRDQRVREQR
490	Q13283	304	RDQRVREQRIN
491	Q13283	317	PQRGPRPIREA
492	Q13283	331	GDIEPRRMVRH
493	Q13283	332	DIEPRRMVRHP
494	Q13283	370	NVVELRINSGG
495	P31943	49	RFIYTRREGRPS
496	P31943	199	HYDPPRKLMM
497	P04264	12	SRSGYRSGGGF
498	P04264	29	IINYQRRTTSS
499	P04264	239	FINNLRRRVDQ
500	P08729	13	PVFTSRSAAFS
501	P02687	129	FGYGGRASDYK
502	P02687	158	FKLGGDRSRSG
503	P15720	52	DRHVPRRGFGK
504	P15720	112	GLSLTRFSWGG
505	P25274	111	GTVLSRFSWGA
506	P11940	49	RDMITRRSLGY
507	P11940	67	PADAERALDTM
508	P11940	83	KGKPVIRIMWSQ
509	P11940	94	RDPSLRKSGVG
510	P11940	240	FVSFERHEDAQ
511	Q9JMB7	8	GRARARARGRA
512	Q9JMB7	10	ARARARARGRARG
513	Q9JMB7	53	GRGRQRGMVVG
514	Q9JMB7	95	LGVNTRQNLDH
515	Q9JMB7	193	NGEHVRITITL
516	Q8CDG1	21	PSQCVRMPGCW
517	Q8CDG1	31	WPQAPRPLEPA
518	Q8CDG1	50	RGLVFRKPEDS
519	Q8CDG1	206	VTMERKEKEL
520	Q86WR7	186	PVEHPRLLRSV
521	P22626	62	ASKRSRGGFV
522	P22626	99	KRAVAREESGK
523	P22626	147	EIITDRQSGKK
524	P51991	167	QSGKRGFAFV
525	Q99729	28	VPEASRGRGWT
526	P14678	16	QHIDYRMRCIL

527	P14678	73	GLVLLRGENLV
528	P14678	108	GPGIGRAAGRG
529	P14678	209	GIPPGRGTPMG
530	Q14524	34	AEKQARGSTTL
531	Q14524	43	TLQESREGLPE
532	Q14524	222	ALRTFRVLRAL
533	Q14524	225	TFRVLRALKTI
534	Q14524	282	RHKCVRNFTAL
535	P23246	9	DRFRSRGGGGG
536	P23246	267	GGPGRSEEKI
537	P23246	315	EDEFKRLFAKY
538	P23246	342	IKLESRALAEI
539	P68363	221	NLDIERPTYTN
540	P07437	262	MVFPFRLHFFM
541	Q86V81	29	GGGRGRGRAGS
542	Q86V81	73	GGGRNRPA PYS
543	Q86V81	155	DVHFERKADAL
544	Q86V81	204	GMTRNRGAGGF
545	O08583	38	GSQGGRGGAVQ
546	O08583	188	QIDTQRPAQS
547	O08583	196	AQSINRGGMTR
548	P31269	106	AAPDGRYMRSW
549	P31269	109	DGRYMRSWLEP
550	P31269	248	LNLTERQVKIW
551	P31269	258	WFQNRMRMKKK
552	P04049	316	PVPAQRERAPV
553	O76922	11	NPVIARGRGRG
554	O76922	26	NVEANRGFAPS
555	O76922	189	LVTKSRAGENI
556	Q9NR22	95	LKDEVRTLTYR
557	Q9NR22	204	TVIFARDKWLK
558	Q9NR22	218	LMFPDRAALYV
559	Q9NR22	300	CLQIQRNDYVH
560	Q9UBL3	108	DEENGRQLGEV
561	Q9UBL3	160	NTYFLRKQANL
562	Q92934	109	LWAAQRYGREL
563	Q7Q2B7	261	KMYPSTRGDLHV
564	P11911	125	RNPVPRPFLDM
565	P11911	160	TLLLFRKRWQN
566	Q09472	237	GQTGLRGPQPL
567	Q09472	353	AHKCQRREQAN
568	Q09472	466	PSSIERAYAAL
569	Q09472	754	MGYGPRMQQPS
570	Q09472	883	LHPPPRTPTP
571	Q09472	915	PQQQPRSQQST
572	Q09472	1055	KPEELRQALMP
573	Q09472	1137	NRKTSRVYKYC
574	Q09472	1166	GYCCGRKLEFS
575	P03372	162	RRQGGRERLAS
576	P03372	243	QACRLRKCYEV
577	P03372	259	GIRKDRRGGRM
578	P03372	277	DDGEGRGEVGS

579	P03372	300	PLMIK R SKKNS
580	P03372	394	IGLV R SMEHP
581	P03372	434	LATSS R FRMMN
582	P03372	548	MLDAH R LHAPT
583	Q01844	138	ATAPT R PQDGN
584	Q01844	461	GGLPP R EGRGM
585	Q01844	518	GNVQ H RAGDWQ
586	P22509	80	GRGG R GGKRG
587	P22509	213	NLAKK R TNIIP
588	P22509	250	QPDQ T RIVALN
589	P35637	371	VSFAT R RADFN
590	P35637	472	NYGDD R RGGRG
591	P35637	514	GKMDS R GEHRQ
592	P03347	91	YCVH Q RIEIKD
593	P03347	150	QAISP R TLNAW
594	P03347	380	TIMM Q RGNFRN
595	P03347	464	PFLQ S RPEPTA
596	P03347	476	PEES F RSGVET
597	P68431	70	KLPF Q RLVREI
598	P62805	36	TKPAI R RLARR
599	P62805	41	RRLAR R GGVKR
600	P62805	56	IYEET R GVLVK
601	P17096	73	GAAK T RKTTTT
602	P17096	86	RKPRG R PKKLE
603	P31942	116	PGPYD R PIGGR
604	P31942	137	MYDRM R RGGDG
605	P31942	232	IGADG R ATGEA
606	O60506	60	SDLDE R AIEAL
607	O60506	286	DKKKN R GF CFL
608	O60506	343	KVLFV R NLANT
609	O60506	520	APPRG R AGYSQ
610	Q07666	17	SRSSG R SGSMD
611	Q07666	213	KEEEL R KGGDP
612	Q07666	289	RGVPV R GRGAA
613	Q07666	354	TAGIQ R IPLPP
614	P08199	281	PAPGK R KKEMT
615	P08199	471	GEKG Q RQERTG
616	P08199	551	MEIEG T IRLE
617	P08199	597	FEGSV R ARIVT
618	Q28165	24	SGPGR R RHLVP
619	Q28165	125	EAIKAR V REME
620	O75925	28	LGYAG R NKHGR
621	O75925	163	SDNSQ R FRETC
622	O75925	296	TVLLQ R LRKAG
623	O75925	330	ATTSL R VSLLC
624	O75925	632	HTVTN R SSTDT
625	Q96PU8	43	FNHLE R LLDEE
626	Q96PU8	101	FNFV G RILGPR
627	Q96PU8	330	VHPY Q RIVTAD
628	Q96PU8	336	IVTAD R AATGN
629	Q92804	153	SYHS Q RENYSH
630	Q92804	169	RRDVS R YGEDN

631	Q92804	187	GGGRGRGGYDK
632	Q92804	195	YDKDGRGPMTG
633	Q92804	326	RPEFMRGGGSG
634	Q92804	373	MNFARNSCNQ
635	Q92804	395	SGGDFRGRGYG
636	Q92804	441	GYSGDRSGGGY
637	Q92804	526	GYGGDRSRGGY
638	P09867	53	DPNTKRSRFG
639	P09867	178	HNCEVRKALSK
640	P09867	218	NDNFGRGGNFS
641	O00267	123	DRSGARRLQNL
642	O00267	133	LWRDQREEELG
643	O00267	246	GVGNLRLGYWN
644	O00267	334	RKKFKRPPQRL
645	O00267	416	STGKEREHNFQ
646	O00267	747	TISVDRQRLTT
647	Q15554	25	SRSSGRARRGR
648	Q15554	66	FHEALRAFRGS
649	Q15554	89	QALLVRPLGKE
650	Q15554	200	LLNIIREKNLA
651	Q15554	270	VEKPPREPARQ
652	Q15554	361	RMTISRVLLEE
653	Q15554	490	VMIKDRWRMTK
654	Q5TAQ9	116	EEQPRRRVQRK
655	Q96EY1	8	ARCSTRWLLVV
656	Q96EY1	28	SGRGARPPREG
657	Q96EY1	319	DGQTVRMPVGK
658	Q96EY1	325	MPVGKREIFIT
659	P06746	40	KYNAYRKAASV
660	P06746	112	GPSAARKFVDE
661	P06746	253	KEYPHRRIDIR
662	P06746	299	NEYTIRPLGVT
663	P06746	328	IQWKYREPKDR
664	Q92997	231	VSRIERSSSFS
665	Q60487	63	IHPDGRVDGVR
666	Q60487	84	LQAEDRGVSSI
667	Q60487	131	NYNTYRSRKYS
668	Q9R1E0	21	PLPRQRSCTWP
669	Q9R1E0	98	AAAASRGLCGD
670	Q9R1E0	154	TSSSRRNAWGN
671	Q9R1E0	266	AKSRGRAAKKK
672	Q9R1E0	311	NWSTFRPRTSS
673	Q13283	299	PQRPQRDQVR
674	Q13283	307	RVREQRINIPP
675	Q13283	335	PRRMVRHPDSH
676	P31943	81	ETMGHRYVEVF
677	P31943	114	NDGFVRLRGLP
678	P31943	224	YNSIGRGAGFE
679	P31943	232	GFERMRRGAYG
680	P31943	262	SDRFGRLNYC
681	P04264	179	QKVKSREREQI
682	P04264	240	INNLRRRVDQL

683	P04264	241	NNLRRRVDQLK
684	P04264	403	ISELNRVIQRL
685	P08729	25	RGAQVRLSSAR
686	P08729	88	SLQVRQEESE
687	P08729	161	QVDGGRLEAEL
688	P08729	226	EINFLRTLNET
689	Q36736	21	DQEFNRKMQEQ
690	P02687	9	KRPSQRSKYLA
691	P02687	63	GHHAARTTHYG
692	P15720	53	RHVPRRGGFGKD
693	P25274	63	KDHAARTTHYG
694	P25274	77	QKSGHRPQDEN
695	Q8IZS5	91	GNEYGRNYFDP
696	Q8IZS5	118	REDDDRIFYNR
697	Q8IZS5	221	VTAVIRSRYY
698	Q8IZS5	223	AVIRSRYYRE
699	P11940	44	SIRVCRDMITR
700	P11940	172	KVFGVGRFKSRK
701	Q9JMB7	125	FRLTSRPQWAL
702	Q8CDG1	39	EPAWGRAGPAG
703	Q8CDG1	108	SANMVRKDREE
704	Q8CDG1	115	DREEPRSSLPD
705	Q86WR7	231	RTPAARGPRSG
706	Q86WR7	268	AAREPBRRTLSR
707	P51991	16	QPDGRRRRRR
708	P51991	19	SGRRRRRRGEE
709	P51991	20	GRRRRRRGEEG
710	Q99729	194	PKLNKRRGFVF
711	Q99729	322	GKSQRGGHQON
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715	Q14524	376	QDCWERLYQOT
716	Q14524	433	EEKEKRFQEAM
717	P23246	32	GLHDFRSPPPG
718	P23246	287	LSLLRRPGKKT
719	P23246	298	YTQRCRLFVGN
720	P23246	407	VIVDDRGRSTG
721	P07437	62	GKYVPRAILVD
722	P07437	390	FTAMFRRKAFL
723	Q86V81	31	GRGRGRAGSQG
724	Q86V81	47	AQAAARVNRGG
725	O08583	50	AARVNRGGGPM
726	P39748	29	KSYFGRKVAID
727	P39748	47	FLIAVRQGGDV
728	P39748	261	IEEIVRRLDPN
729	P39748	320	QFSEERIRSGV
730	P31269	210	STRKKRCPYTK
731	P31269	257	IWFQNRMKMK
732	P04049	73	TVVNVNRGMSL
733	P04049	111	KGKKARLDWNT
734	P04049	218	TMRMRRESVSR

735	P04049	256	LSQRQRSTSTP
736	P46783	65	EQFAWRHFYWY
737	P46783	119	PARLTRGEADR
738	O76922	96	DLVYSRPPGMT
739	O76922	248	NLENFRMQLWP
740	O76922	291	LSDAIRDSDDY
741	Q9NR22	251	DMTCIRDVAMK
742	Q9UBL3	213	MTTRQRPGKMT
743	Q9UBL3	621	TEVDGRRSPPW
744	Q92934	20	SSSAERGLGPS
745	Q92934	115	YGRELRRMSDE
746	Q7Q2B7	146	TSTYQRAIYNN
747	Q7Q2B7	239	MLYNERMLETY
748	Q7Q2B7	308	MKEYFRQPIVD
749	Q7Q2B7	326	MAKSIRHTTNF
750	P11911	30	GCQALRVEGGP
751	P11911	55	CENNGRNPINIT
752	P11911	120	TYLRVRNPVPR
753	Q09472	200	SIGAGRGRQNM
754	Q09472	362	ANGEVRQCNLP
755	Q09472	424	NAGDKRNQOPI
756	Q09472	613	LVAYARKVEGD
757	Q09472	648	ELEEKRRTRLQ
758	Q09472	651	EKRRTLQKQN
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760	Q09472	728	PPIVPRQTPPL
761	Q09472	838	SPVPSRTPTPH
762	Q09472	1067	LEALYRQDPES
763	Q09472	1234	EQFSKRKNDTL
764	Q09472	1281	LKKSARTRKEN
765	Q09472	1305	TFLENRVNDFL
766	Q09472	1311	VNDFLRRQNHP
767	Q09472	1312	NDFLRRQNHPE
768	Q09472	1391	PPPNQRRVYIS
769	Q09472	1405	SVHFFRPKCLR
770	P03372	211	KAFFKRSIQGH
771	P03372	233	TIDKNRRKSCQ
772	P03372	412	NLLLDNRNQGKC
773	P03372	477	KDHIHRVLDKI
774	P03372	555	HAPTSRGGASV
775	Q01844	446	KVSLARKKPPM
776	Q01844	648	DKGEHRQERRD
777	Q01844	651	EHRQERRDRPY
778	P22509	64	GGGGRRGGGFQ
779	P22509	128	VYGEKRVSISE
780	P22509	204	SHRSGRDLINL
781	P22509	310	LEPYERDHAVV
782	P03347	15	GGELDRWEKIR
783	P03347	58	TSEGCRQILGQ
784	P03347	361	PGHKARVLAEA
785	P03347	406	TARNCRAPRKK
786	P03347	444	PSYKGRPGNFL

787	P17096	30	GRGRPRKQPPV
788	P31942	80	GKHKERIGHRY
789	P31942	200	HFVHMRGLPFR
790	O60506	142	VTTGQRKYGGP
791	O60506	192	PIWDLRLMMDP
792	O60506	203	LTGLNRGYAFV
793	O60506	366	FGKLERVKKLLK
794	O60506	448	TRGRGRGGRGG
795	O60506	501	RGRGGRGARGA
796	O60506	546	GAQQQRGRGVR
797	Q07666	186	GNTIKRLQEET
798	Q07666	302	PPPVPRGRGVG
799	P08199	561	ELQGRGSPNA
800	P08199	567	GSPNARSQPSK
801	Q28165	227	DKESVRTSLAL
802	Q28165	240	SLFRGRQIKVI
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804	Q96PU8	51	DEEISRVRKDM
805	Q96PU8	68	GSTEKRS AELP
806	Q96PU8	130	GKGSMDKKKE
807	Q92804	337	GRRRGRGGYRG
808	Q92804	343	GGYRGRGGFQG
809	Q92804	545	GYGGDRSGGYG
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811	P09867	97	REDSQRPGAHL
812	P09867	146	GSGKKRGF AFV
813	O00267	119	VLDEDRSGARR
814	O00267	469	PAQELRKYFKM
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816	O00267	555	IVRLE RETFQV
817	O00267	668	APMSPRISSPM
818	O00267	700	SRGRGRDNEL
819	O00267	701	RGRGRDNELI
820	O00267	757	TVGSR RPPGGMT
821	O00267	1005	QTGVIRSVTGG
822	P69697	55	KKRRQRRRPPQ
823	Q15554	27	SSGRARRGRHE
824	Q15554	99	EHTVSRLLRVM
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827	P15056	95	DALQQREQQLL
828	P15056	178	CGVTVRDSLKK
829	P15056	443	MKTLGRRDSSD
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831	Q5TAQ9	122	RVQRKRANRDQ
832	Q5TAQ9	225	WDWVR RQPVLD
833	Q96EY1	41	GAWLSRKLSVP
834	Q96EY1	64	ALLTLRPGVSL
835	Q96EY1	151	SDEVK RKQYDA
836	Q96EY1	277	RSTCRRCGGRG
837	P06746	149	GDFEK RIPREE
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842	Q92997	216	SRLMRRHKRRR
843	Q92997	221	RHKRRRQKQKV
844	Q60487	121	CCCCERLESNN
845	Q60487	133	NTYRSRKYSSW
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847	Q54G21	210	SETPFRFVUGE
848	Q9R1E0	29	TWPLRPPEFNQ
849	Q9R1E0	606	GMFIERLDCCDM
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853	Q13283	314	NIPPQRGPRPI
854	P31943	75	ALKKDRETMGH
855	P31943	175	KKHKEIRIGHRY
856	P04264	8	RQFSSRSYRS
857	P04264	38	SSSTRRSGGGG
858	P04264	181	VKSREREQIKS
859	P04264	223	VDTSTRTHNLE
860	P04264	267	MVEDYRNKYED
861	P04264	277	DEINKRTNAEN
862	P08729	136	SAKSSRLPDIF
863	P08729	302	HGDDLNRTRNE
864	P02687	31	FLPRHRDTGIL
865	P02687	96	NIVTPRTPPPS
866	P15720	30	RHGSPRHRDSG
867	P15720	42	LDSLGRFFGGD
868	P25274	150	QGTLSRLFKLG
869	Q8IZS5	132	LFDESROGEPQ
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871	P11940	265	QIYVGRAQKKV
872	Q9JMB7	80	LSLAERGGRRR
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875	Q9JMB7	174	LFLPKRLQHKV
876	Q86WR7	24	PSCRLRAFSRG
877	Q86WR7	40	RSSSSRSRSFT
878	Q86WR7	42	SSSRSRSFTLD
879	Q86WR7	172	TPDPPRRELRA
880	Q86WR7	234	AARGPRSGDPG
881	Q86WR7	269	AREPRRTLSRA
882	Q86WR7	273	RRTLSRAAVSV
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885	P51991	18	DSGRRRRRGE
886	P51991	68	DCVVMRDPQTK
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888	P51991	246	GNFGGRGGYGG
889	Q99729	137	HRLDGRVIDPK
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891	Q99729	321	YGKSQRGGHQ
892	P14678	25	ILQDGRIFIGT
893	P14678	61	SKQAEEREEKRV
894	P14678	65	EREKRVLGLV
895	P14678	132	LAGPVRGVGGP
896	Q14524	104	GKTIFRFSATN
897	Q14524	190	AFTFLRDPWNW
898	Q14524	383	YQOTLRSAGKI
899	Q14524	451	EALTI RGVDTV
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901	P68363	79	VIDEVRTGTYR
902	P68363	123	VLDRI RKLADQ
903	P68363	214	IYDICRRNLDI
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910	Q86V81	190	IDAQRPAQSV
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912	O08583	201	RGGMTRNRGSG
913	P39748	103	AKRSEERRAEAE
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915	P39748	262	EEIVRRLDPNK
916	P31269	235	YLTRDRRYEVA
917	P04049	215	PSLTMRRMRES
918	P04049	216	SLTMRRMRESV
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920	P46783	153	TEFQFRGGFGR
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922	O76922	132	TIYQYRVDFTP
923	O76922	145	EATRLRRSFLY
924	O76922	221	NLILRRAMEGL
925	O76922	233	LKLVSRYYYDP
926	Q9NR22	100	RTLTYRNSMYH
927	Q9UBL3	300	GRGAKRKQQDG
928	Q9UBL3	342	NKDG YRILAE
929	Q9UBL3	388	LALHDRAPQLK
930	Q92934	39	SGKHHRQAPGL
931	Q92934	70	GAVEIRSRHSS
932	Q92934	98	FRGRSR SAPPN
933	Q92934	161	DRNLGRGSSAP
934	Q7Q2B7	112	SVFNLRTEDSS
935	Q7Q2B7	140	MQDFVRTSTYQ
936	Q09472	202	GAGRGRQNMQY
937	Q09472	397	HCASSRQIISH
938	Q09472	568	STTGIRKQWHE
939	Q09472	603	AALKDRRMENL
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941	Q09472	1356	ESFPYRTKALF
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943	P03372	271	KHKRQRDDGEG
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945	P03372	335	EYDPTRPFSEA
946	Q01844	292	GPGENRSMMSGP
947	P22509	141	DKIEYRAWNPF
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949	P22509	261	AHTFLRNGGHF
950	P22509	320	VVGVYRPPPKA
951	P35637	218	RGGRGRGGSGG
952	P35637	441	MNFSWRNECNO
953	P03347	39	IWASRELERF
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955	P03347	76	GSEELRSLYNT
956	P03347	214	AAEWDRVHPVH
957	P03347	229	APGQMRPRGS
958	P03347	232	QMREPRGSDIA
959	P62805	20	GAKRHRKVLDR
960	P62805	93	VYALKRQRTL
961	P17096	81	TTTPGRKPRGR
962	P31942	55	MDYQGRSTGEA
963	P31942	104	FYDPPRLLGQ
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967	O60506	171	VGKIPRDLFED
968	O60506	244	SVANNRLFVGS
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970	O60506	413	PPDQKRKERKA
971	O60506	478	DYHNYRGGYED
972	O60506	548	QQQRGVRGA
973	O60506	551	RGRGVRGARGG
974	Q07666	36	RQTPSRQPPLP
975	Q07666	159	MKLKERVLPV
976	Q07666	348	PAPRARTAGIQ
977	Q07666	420	DWNGTRPSLKA
978	Q07666	429	KAPPARPVKGA
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981	Q28165	127	IKARVREMEEE
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983	O75925	15	MVMSLRVSELQ
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986	O75925	298	LLQRLRAKGIR
987	O75925	309	NPDHSRALIKE
988	O75925	341	PLGKMRLTIPC
989	O75925	622	SSNSLRSHSH
990	Q96PU8	170	EIKLKRAVEEV
991	Q96PU8	319	VATKVRRHDMR
992	Q92804	403	GYGGERGYRGR
993	Q92804	408	RGYRGRGGRGG
994	P09867	14	EPEQLRKLFIG

995	P09867	55	NTKRSR RG FGFV
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997	P09867	232	GFGGS R GGGGY
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999	O00267	365	IFEGN R YSRKG
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1004	P69697	57	RRQRR R PPQGS
1005	Q15554	21	GRRAS R SSGRA
1006	Q15554	80	DFRQ I RDIMQA
1007	Q15554	223	QOKML R FLESH
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1009	Q15554	332	KNKR P RKDENE
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1012	P15056	271	YKFH Q RCSTEV
1013	P15056	354	ADEDH R NQFGQ
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1017	P06746	183	CGSFR R GAESS
1018	P06746	283	FNKNM R AHALE
1019	Q92997	39	KGVLQ R PSYKF
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1022	Q92997	157	PEHAT R LNGTA
1023	Q92997	166	TAKGE R RREPG
1024	Q92997	222	HKRRR R KQKVS
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1026	Q60487	57	GGFFL R IHPDG
1027	Q54G21	339	NESNS R NSHSN
1028	Q54G21	631	VEKEN R MVTLK
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1031	Q9R1E0	177	SSAEK R LTLSQ
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1033	Q13283	398	KVLSN R PIMFR
1034	P31943	29	ADEVQ R FFSDC
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1039	P08729	253	SMDNS R SLLD
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1043	P02687	161	GGRDS R SGSPM
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1049	P11940	176	GRFKSRKEREK
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1056	Q86WR7	28	LRAFSRGGSL
1057	Q86WR7	35	GSLESRSSSSR
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1059	Q86WR7	226	RPGEWRTPAAR
1060	P22626	12	TVPLERKKREK
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1064	P22626	190	RKALSRQEMQE
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1066	P51991	76	QTKRSRGGFV
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1076	Q14524	122	FHPIRRAAVKI
1077	P23246	236	PKPPHRGGGEP
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1081	P23246	363	RGRQLRVRFAT
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1083	P68363	84	RTGTYRQLFHP
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1095	Q86V81	38	GSQGGRRGGAQ
1096	Q86V81	50	AARVNRGGPI
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1105	P04049	89	KALKVRGLQPE
1106	P04049	191	DWSNIRQLLLF
1107	P04049	254	GSLSQRQRSTS
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1113	Q9NR22	349	DYLTVRGEEI
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1115	Q9UBL3	398	KISDDRLLTVVG
1116	Q9UBL3	461	FSYSWRSKKGT
1117	Q7Q2B7	206	NNLTDRIIVIA
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1122	P11911	111	NNILKRSCGTY
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1124	Q09472	1252	CTECGRKMHQI
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1126	Q09472	1292	KFSAKRLPSTR
1127	Q09472	1478	KAVSERIVHDY
1128	P03372	151	PPAFYRPNSDN
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1139	P22509	147	AWNPFRSKLAA
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1146	P68431	27	ATKAARKSAPA
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1149	P31942	84	ERIGHRYIEIF
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1153	P31942	171	FDDMRDGRGM
1154	O60506	105	KTYRQREKQGT
1155	O60506	416	QKRKERKAQRQ
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1157	O60506	498	VGARGRGGGA
1158	O60506	512	APSRGRGAAPP
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1160	Q07666	56	SRGGARASPAT
1161	P08199	391	DSKKVRAARTL
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1163	Q28165	172	MEADARS IYVG
1164	O75925	33	RNKHGRKHELL
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1167	O75925	479	EPSAKRTCPSL
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1169	Q96PU8	163	EDAQNRAEIKL
1170	Q96PU8	227	AQAAPRIITGP
1171	Q92804	175	YGEDNRGYGGS
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1175	O00267	124	RSGARRLQNLW
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1181	O00267	494	TGLIVRVEENF
1182	O00267	577	HQAVTRKKDNR
1183	O00267	813	LHDGSRTPAQS
1184	Q15554	54	EEAVNRWVLKF
1185	Q15554	154	VVESSRKLKVE
1186	Q15554	330	ALKNKRPKDE
1187	Q15554	482	YPFVNRTAVMI
1188	P15056	158	QKPIVRVFLPN
1189	P15056	166	LPNKQRTVVPA
1190	P15056	172	TVVPARCGVTV
1191	P15056	389	RDQGFRRGDGGS
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1194	Q5TAQ9	33	GAEEGRETS SG
1195	Q5TAQ9	59	DGGPNRTSTES
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1197	Q5TAQ9	184	FVQRFRLQHGL
1198	Q5TAQ9	224	VWDWVRRQPVL
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1203	Q60487	68	RVDGVREKTD P
1204	Q54G21	12	EEYSNRNAASS
1205	Q54G21	320	VAKLGRATGFT
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1207	Q54G21	759	DEKNARKSDIE
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1210	Q9R1E0	83	SEDFARAPGCV
1211	Q9R1E0	324	STISGRRLSPIM
1212	Q13283	13	PLLVGREFVRQ
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1215	P31943	44	GAQGIRFIYTR
1216	P31943	116	GFVRLRGLPFG
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1222	P08729	77	LLAPLRLDADP
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1224	P08729	149	QIAGLRGQLEA
1225	P08729	167	LEAELRSMQDV
1226	Q36736	53	YEKFERMIKEH
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1229	P02687	112	GLSLSRFSWGA
1230	P15720	25	TTDHARHGSPR
1231	P25274	43	LDSIGRFFSSD
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1233	Q8IZS5	123	RIFYNRLTKLF
1234	Q8IZS5	224	VIRSRYYREQ
1235	P11940	50	DMITRRSLGYA
1236	P11940	290	QDRITRYQGVN
1237	Q9JMB7	144	PLMEARRLRSA
1238	Q9JMB7	187	VFSQTRNGEHV
1239	Q9JMB7	218	YNIIFRRLKI
1240	Q8CDG1	83	LDTAFRPPSKR
1241	Q8CDG1	140	SVGWSRMLGRG
1242	Q8CDG1	144	SRMLGRGSSEV
1243	Q8CDG1	181	ARDPPRLPQPP
1244	Q8CDG1	255	ECKSMRFGMLK
1245	Q8CDG1	326	YNVVFRRVMKL
1246	Q86WR7	189	HPRLLRVPTP
1247	P22626	21	EKEQFRKLF IG
1248	P22626	54	DCVVMRDPASK
1249	P22626	95	VVEPKRAVARE
1250	P22626	200	EVQSSRSRGGG
1251	P22626	266	GYGGGRGGYGG
1252	P22626	325	NFGGSRNMGGP
1253	P51991	21	RRRRRGEEGH
1254	P51991	96	AAMCARPHKVD

1255	P51991	214	SAGSQRGRGGG
1256	P51991	216	GSQRGRGGGSG
1257	Q99729	108	DPNTGRSRGFG
1258	Q99729	195	KLNKRRGFVFI
1259	Q99729	253	RNRGNRGSGGG
1260	P14678	18	IDYRMRCILQD
1261	P14678	172	QYPPGRGGPPP
1262	Q14524	18	FRRFTRESLAA
1263	Q14524	27	AAIEKRMAEKQ
1264	Q14524	53	EEEAPRPQLDL
1265	Q14524	121	PFHPIRRRAVK
1266	Q14524	277	FMGNLRHKCVR
1267	P23246	19	GGFHRRGGGGG
1268	P23246	44	GLNQNRGPMGP
1269	P23246	242	GGGEPRGGROH
1270	P23246	245	EPRGGRQHHP
1271	P23246	365	RQLRVRFATHA
1272	P68363	64	GKHVPRAVFVD
1273	P68363	373	LAKVQRAVCML
1274	P68363	390	AEAWARLDHKF
1275	P07437	46	DLQLDRISVYY
1276	P07437	86	FGQIFRPDNFV
1277	Q86V81	189	QIDAQRPAQS
1278	O08583	58	GPMNRPAIAR
1279	P39748	73	FYRTIRMMENG
1280	P39748	245	GIGPKRAVDLI
1281	P39748	322	SEERIRSGVKR
1282	P39748	339	GSTQGRLLDDFF
1283	P31269	29	ELSVGRYAPGT
1284	P31269	166	SPPVDREKQPS
1285	P04049	67	LPNKQRTVVNV
1286	P04049	164	LLNGFRCQTCG
1287	P04049	275	LPVDSRMIEDA
1288	P04049	331	EKNKIRPRGQR
1289	P46783	98	TLRRSRPETGR
1290	P46783	113	GLEGERPARLT
1291	O76922	84	PRGSVRGRRLI
1292	O76922	143	DVEATRLRRSF
1293	O76922	220	LNLILRRAMEG
1294	O76922	260	YQTSIRQHEND
1295	O76922	278	CHKVMRTETLY
1296	O76922	302	QSTFKRAVMGM