

1 Training dataset
2 The positive dataset contains 408 malonyllysine peptides while the negative dataset
3 contains 3476 non-malonyllysine peptides.
4
5
6 Positive dataset
7 AC Position Fragments
8 Q64442 78 AAGTVTKVGELVKHLK
9 Q922D8 313 YNKLNLKTPVPSDIAI
10 Q9QXF8 238 GSPGFSKFRLSYYPHC
11 P30115 211 KPFDDAKCVESAKKIF
12 Q64442 63 IGDFFVKKPMVLGHEA
13 Q5XJF6 91 MDIEALKKLNKNKKLV
14 O35490 232 QTVKLMKEGLEAARLK
15 P00329 340 ADFMAKKFPLDPLITH
16 E0CXN5 249 YGGRNRKVAEAFARTG
17 J3QNG0 112 AQREGAKYVSHGATGK
18 D3YYI5 255 RLEKPAKYDDIKKVVK
19 P40142 232 KAFGQAKHQPTAIAK
20 Q920E5 57 YNALGGKYNRGLTVVQ
21 P60710 291 CDVDIRKDLYANTVLS
22 P19157 128 ALPGHLKPFETLLSQN
23 P54869 427 FFRVSKDASPGSPLE
24 B0QZL1 89 NVVEQEKKIDKLMIEMD
25 Q8QZT1 187 LTDVYNKIHMGNCAEN
26 Q8QZT1 335 AVPKVLKYAGLKKEDI
27 P16858 105 VFTTMEKAGAHKGGGA
28 O70250 100 GLTGLNKAETAAKHGE
29 Q64374 239 KRLQTVKLPVDKTTSC
30 Q9D6Y7 183 YQKVLKSHNFGPIITD
31 E0CXM2 97 ANERRLKEKELIGEAAAGK
32 Q8C196 811 FEESFQKALRMCHPSV
33 D3YUX8 65 HAGNEKLVKLEPGLK
34 Q8R0Y6 38 IPDKDGKADPLGLEAE
35 D3YZQ9 118 PKIVSSKDYCVTANSK
36 Q9CPU0 140 DVYSACKRFEELGVKF
37 P12710 57 TITYGPKVVRNEFTLG
38 F8VPN4 1318 RVKRHGKVVAVSDEW
39 Q9QXF8 159 EHLALKNIASMVRPG
40 Q3UT49 210 YLLEKIKEHKESLDVT
41 P52760 60 EAKQALKNLGEILKAA
42 P24549 329 SVERAKKYVLGNPLTP
43 Q3V117 968 KMKKEGKLIMGIGHRV
44 P52196 14 RALVSTKWLAESIRSG
45 P19096 1826 KCTVFPKAQVEDAFRY
46 Q8C196 1486 SRTVDSKSLFHRYQYS
47 D3YZV3 141 AFEKVLKSHGQDYLVG
48 Q3UT49 393 MPFSTGKRICAGEGLA
49 J3QMG3 15 DLGKAAKDVFNKGYGF
50 Q9ET01 78 QQHYYDKCPKRVVYLS
51 Q9CPY7 221 FAEIIIEKNLKSASSKT
52 P05201 290 VLSQMEKIVRITWSNP
53 B1ARR7 71 AVEHINKTIAPALVSK
54 Q8BP40 316 PTTAPSKTRKMYLYAT
55 Q3UEJ6 506 IKKDKPKFFVPRTVII
56 G3X9Y6 273 VLAQSYKENEIKENIQ
57 D3YZT5 122 SPNTGKKGKIKSAYK
58 F2Z459 180 SREAQDKVAVLSQNRA
59 P24549 362 DLIESGKKEGAKLECG
60 P19157 103 VEDLRGKYVTLIYTNY
61 P63017 246 HFIAEFKRKHKKDISE
62 P97494 492 FRKDICKGGNAVVDGC
63 E0CZH6 4 XXXMVVKEDGHMVTAR
64 Q80ZV3 113 SVKLDKVNSSWQKKG
65 Q8R0Y6 845 FTRDINKALYVSDKLQ
66 F6SAC3 371 ELQAAGKSPEDLEKLL
67 Q9D0F9 16 QAYPDQKPGTSGLRKR
68 F8VPN3 44 ALSTGEKGFYKGSSE
69 O35215 33 TATILDKPEDRVSVTI
70 G3UWG1 28 EKGKHKKTGPNLHGLF
71 Q8VCH0 198 FGVSQRQDQAFALASQ
72 G3UW86 101 TILQLEKDLRTQVELM
73 Q91Y97 121 PLAGTNKETTIIQGLDG
74 O08997 60 TLNKTGKAVSYLGPXX
75 P19096 786 TIIPLMKRDHKDNLEF
76 Q8QZT1 199 CAENTAKKMNISRQEQ

77	P19096	70	FFGVHPKQAHTMDPQL
78	Q8JZR0	344	DDMKALKPTVFPPTVPR
79	Q3UEJ6	466	EKEYKVKINPSSMFDV
80	P54869	83	NNVEAGKYTVGLGQTR
81	F6SC55	59	SLLNVKKFLQPGSQRK
82	P62301	27	SVPTWLKLTSDDVKEQ
83	Q8QZT1	121	PCTTVNKVCASGMKAI
84	P16015	126	LVHWNPKYNTFGEALK
85	F6VBB8	213	QVNSEDKGALAKLMEA
86	D3Z492	245	TDVQEFKSSFKLVISQ
87	P12710	46	EIVHEGKKIKLTITYG
88	Q9D819	228	STHDYWKALVTKKTDG
89	Q9D8N0	434	KAVNQGKIFKXXXXXX
90	Q9D8N0	212	EVKLCEKMAQFDAKKF
91	H7BXC3	112	KLRGWLKSNVNDGVAQ
92	P21981	648	PAGDLVKARVDLFPD
93	D3Z3F7	123	ETPEGQKAVRALCAVY
94	Q80ZV3	47	RLVAVSKTKPADMVE
95	F6SAC3	169	LSTNTAKVKEFGIDPQ
96	P12710	96	KMVTTFKGIKSVTELN
97	J3QNG0	239	VKVTNIKDGTTTRTSL
98	Q3V117	978	GIGHRVKSINNPDMRV
99	Q8C196	228	AVDCGIKNNVIRLLVK
100	P12710	84	KVKAVVKLEGDNKMVT
101	A2AE89	162	TPEKMKLYSEFLGKR
102	B1AU25	104	GLSPEEKQRRAIASAT
103	Q91X83	48	VLD AHLKQDPNAKVAC
104	F6WHQ7	175	KISAYMKSSRYIATPI
105	P52792	296	EKIIGGKYMGE LVR LV
106	Q9DBM2	189	AQTVIGKPIEPRRILN
107	P05784	240	KSQDL SKIMADIRAQY
108	P16858	213	ASTGAAKAVGKVIPEL
109	Q8VCR2	70	VLWDINKRGVEETADK
110	O35490	349	IRARARKEYWQNLRIA
111	Q9QXF8	196	GKNIYYKSDLTKDIT
112	F8VPN4	334	EPKEHLKIIQDPEYRR
113	B1ARR7	81	PALVSKKVNVEQEKI
114	D3Z1U3	88	PWVEQDKFGKVKFAVL
115	A2AL20	117	NIAGHLKDAQLFIQKK
116	P42669	86	AKGRFLKIAEVGAGGN
117	E9PVL9	52	IRNKNVKYVDLGGSYV
118	G3UY72	92	YEETIGKAKKAWNIWA
119	Q91ZJ5	438	LGSSFTKVQDYLR RFE
120	Q61176	17	IGAPFSKQPRGGVEK
121	P19157	191	SARPKIKAF LSSPEHV
122	P67778	208	KAEQQKAAIISAEGD
123	P15532	124	HGSDSVKSAEKEISLW
124	Q64374	244	VKLPVDKTTSCCFGGK
125	F8WIT2	370	NPDADAKALRKAMKGI
126	Q8C196	119	DELGLNKYME SDGIKV
127	J3QMG3	64	NLETKYKVCNYGLTFT
128	Q922Q8	73	LDLSKNKLQQLPADFG
129	F6YS63	32	TDEPSEKDALQPGRDL
130	D3Z041	512	EGEVCVKGANVFKGYL
131	B1AXW4	27	MPDQGFKD ISLSEYKG
132	Q61176	75	NPRSVGKANEELAGVV
133	Q78PY7	414	KKLIGKKVNVTVDYIR
134	D3Z4U1	154	FAGPYDKGEYSPSVQK
135	A2A974	458	ARNCIGKQFAMNELKV
136	B1AXW3	127	GDNPF PKNADGTVRYD
137	Q9DCD0	59	VGAQSLKDMVSKLKKP
138	E9PVP0	275	PKWVVNKSSQFLAPKA
139	P06801	492	SQQVSDKHLQEGRLYP
140	P00329	40	AHEVR IKMVATGVCRS
141	Q3U367	334	FINEVVKQTQKIKLGD
142	P16460	228	VLEIEFKKGVVPKVTN
143	Q5SXR6	1447	NYFSKVKQLPLVKPYL
144	P40936	14	GGEDYEKEFTPKDYLT
145	Q9EP89	241	KALKMVKGTPPPSDQE
146	Q9JLF6	558	ERRAVEKAAAHGSKPN
147	P00329	234	DKFAKAKELGATECIN
148	Q8BWT1	270	SEDAVKKHNFTPLARV
149	A2ANX6	38	VLPTLKKDAVSVFYVS
150	E9PVP0	283	SQFLAPKAMKKMYKAC
151	Q8R0Y6	660	VGKHIMKSCALS NVKK
152	H7BXC3	93	WAIGTGKTATPQQAQE

153	Q5XJF6	106	VKKLAKKYDAFLASES
154	E9Q800	203	TVEGALKERRKAVDEA
155	Q9WV68	64	VGRSLQKVTTAAKKLV
156	Q9D8E6	14	ISVYSEKGESSGKNVT
157	Q9WVL0	57	QTLNPMKQVPALKIDG
158	P07901	408	EMLQQSKILKVIRKNL
159	P62852	66	KEVPNYKLLITPAVVSE
160	P30115	138	YFPAFEKVLKSHGQDY
161	Q64433	40	PEKSQGVKVLQATVVAV
162	P16015	64	TILNNGKTCRVVFD
163	Q9EQ20	117	LIKENLKEIARLITLE
164	P16015	57	YDPGSAKTILNNGKTC
165	Q8BMS1	406	GQQQVFKGLNDKVKKK
166	D3Z3X5	196	VEAAVGGKDLFREAHEV
167	Q9EQ20	287	QANMGAKNHGVVMPDA
168	Q9QUH0	28	TCPYCRKTQEILSQLP
169	Q64442	339	EAFETAKKGVGLKVM
170	J3QMG3	110	FVPNTGKKSGLKASY
171	Q9WVL0	177	ANAERFKVDLSPYPTI
172	P24270	449	VRTFYTKVLNEEERKR
173	Q61176	89	VVAEVQKNGRVSVVLG
174	H3BJZ9	226	TMQGLAKLKPAFKDGG
175	Q3U2G2	53	SIGAAAKSQVISNAKN
176	Q8R0Y6	290	DRMLLVKNIQLEDGKM
177	P09411	75	GVPMPDKYSLEPVAEE
178	O88451	64	AACLTEKGAEQLRNKT
179	P55096	529	VIYPDGKEDQKKRGIS
180	P40142	319	DKIATRKYGLALAKL
181	O35488	442	IGYAGGKTQTEKKKLR
182	Q8BWT1	137	NVRFGTKFGLDLKLED
183	P16015	39	LHTKDIKHDPQLPWS
184	P12710	36	QKGDIKGVSEIVHEG
185	Q8BWT1	211	PIEVKTKKGGKQTMQVD
186	P60710	50	MVGMGQKDSYVGDEAQ
187	D3YU60	55	DCAGFGKGENAKKFVR
188	P07724	588	CCKAADKDTCFSTEGP
189	J3QMG3	20	AKDVFNKGYGFGMVKI
190	D3Z1U3	93	DKFGKVKFAVLQTYGD
191	E9Q1H3	87	VRQASLKDYEETIGKA
192	Q91X83	374	KKPIYQKTACYGHFGR
193	P55096	533	DGKEDQKKRGISDQVL
194	P11983	400	DALCVVKKRVLELKS
195	Q3UEJ6	319	IYEINQKHLDRIVALF
196	F7BP55	25	GPPGAGKGTQAPKLA
197	Q91ZJ5	127	MGCKGPKSLIGVRNEN
198	Q8BWT1	241	LPSVFKKDGTVTAGNA
199	O35490	40	EKRGVVKAGPWTPEAA
200	P51881	199	GIYDTAKGMLPDPKNT
201	P47738	377	KILGYIKSGQEGAKL
202	P01942	8	VLSGEDKSNIKAAWGK
203	P30115	84	KYNLYGKDMKERAIID
204	G3UWG1	40	HGLFGRKTGQAAGFSY
205	P99028	83	DHCVAHKLKFNKLNKXX
206	F8VFN4	511	LWAHMKKYTEITATHF
207	Q62446	170	FKVGVGKVIKRWDEAL
208	Q8C196	1291	GESIDEKRLPTLEQPI
209	D3YVY3	81	TITPDEKRVEEFKLKQ
210	F7BP55	59	SGSELGKLLKATMDAG
211	P28271	621	KIETVNSWNAALAPS
212	P16015	36	PIELHTKDIKHDPQLQ
213	Q64374	198	IVYKMEKDEQIPDGMC
214	P26443	84	ASIVEDKLVEDLKTRE
215	B1ATQ3	107	LLKANVKIFKSQGTAL
216	Q8K4Z3	142	YPKRPNKPLFTGLVTQ
217	O35129	262	AAQNISKTIATSQNR
218	D3Z4X1	97	PISDSPKPPPQRVTLT
219	D3YV43	108	AESLRYKLLGGLAVRR
220	P08228	123	TMVVHEKQDDLKGGGN
221	P26443	503	ISGASEKDIVHSGLAY
222	B1AU25	290	DFRALEKISREVKST
223	E9PZF0	100	TNPADSKPGTIRGDFC
224	Q61176	26	PRGGVEKGPAAALRKAG
225	P14115	94	VNAAKNKTGVAPIIDV
226	P52760	13	KVISTTKAPAAIGPYS
227	Q9DBM2	344	ITSTLEKEASKSGQAS
228	D3YZQ9	261	LGTADADKEQWKEVHKQ

229	Q3U367	327	QKEIADKFINEVVKQT
230	G3UXX3	52	SMLRQLKEELGAQQPD
231	Q64459	493	EKP I V L K V V P R D A V I T
232	Q8BMS1	728	DLYGAQKVVDRLRKYE
233	P50247	226	GYGDVKGKCAQALRGF
234	P55096	286	AFYNGNKREKQTIHSV
235	Q8R0Y6	174	LFPEGIKGMVQAVRLI
236	F6VSP9	20	CLLRLYKASPDLVPMG
237	Q8C196	1356	MLSTGFKIPQKGILIG
238	Q99JY9	254	DGSKWIKQYTG V N A I S
239	Q8QZT1	171	TPYGGVKLEDLIVKDG
240	A2AE89	31	DSSYDEKRYTMGDAPD
241	P48962	92	ALNF A F K D K Y K Q I F L G
242	Q9EP89	346	ERASGYKYL D Y M Q K I F
243	O09173	98	PNQLRWKPF E I P K A S E
244	Q8QZT1	75	IQGAIEKAGIPKEEVK
245	J3QNG0	58	LKLGAKKVFI EDV S K E
246	F2Z456	103	KFPAGGKMSQYLENMK
247	Q8BH00	344	VRSYVLKAQTEGARIL
248	Q91V76	215	VQKGKVKAHIMP A E F S
249	Q8R0Y6	48	LGLEAEKDGVPVFKFP
250	Q99J08	11	VGDLSPKQEEALAKFR
251	P19157	121	GKN DY V K A L P G H L K P F
252	Q8R0Y6	35	VFTIPDKDKADPLGL
253	P97872	398	VFKGLK L P S Q S E M M A
254	Q8QZT1	178	LEDLIVKDG L T D V Y N K
255	D3YU60	42	FQRITNKVFANPEDCA
256	Q8R0Y6	479	ENGLWGKINARDRGR L
257	Q8VC30	525	VLTKAVKSAEAAA E A T
258	Q3UT49	382	GNGNFKKS D Y F M P F S T
259	P10854	109	LPGELAKHAVSEGTKA
260	Q9R1P1	77	LNLYELKEGRQIKPYT
261	P40936	219	SGVYLEKEVVEKAIQD
262	A2AE89	170	YSEFLGKRPWFAGDKV
263	Q91ZJ5	69	HRFLQEKGPSVDWGKI
264	Q4LDG0	416	LRANVWKNFQQRFGPI
265	Q91WS0	55	IQKDNPKVVHAFDMED
266	P56656	270	IDYYLIKQKQANHIQQ
267	Q05421	87	HGYKAVKEVLLNHKNE
268	P00329	105	GECRICKHPESNFCSR
269	P51881	96	AFKDKYKQIFLGGVDK
270	E9Q133	184	RGVMINKDVTHPRMRR
271	E9Q800	372	FDSAVAKALEHHRSEI
272	F6YJC6	68	PPVSHWKPEAVYYEDG
273	Q8VDG5	46	ITSGGTKVPLEARAVR
274	Q9CXW4	38	RLTRAAKVLEQLTGQT
275	P58710	303	SYECRFKQHVQDWAIP
276	P05202	296	AFTVVCCKDAEEAKRVE
277	Q9DBM2	329	AVESDPKQLDTAKKII
278	B1ATQ3	110	ANVKIFKSQGTALEKY
279	B1ARR7	60	KTRFMGKGVSQAVEHI
280	P09041	30	DFNVPMKNNQITNNQR
281	P61358	93	VDIPLDKTVVNKDVFR
282	Q8R0Y6	229	WIRGNDKVP G A W T E A C
283	D3Z3P8	108	KDAGLAKSIGVSNFNR
284	B1AXW4	16	YPAPNFKATAVMPDGQ
285	P99027	25	SAKD I K K I L D S V G I E A
286	P24549	412	QQIMKFKSVDDVIKRA
287	Q9D8N0	277	AAEPKAKDPFAHLPKS
288	P12710	31	PEDLIQKGKDIKGVSE
289	P62204	22	AFSLFDKDG D G T I T T K
290	P07901	411	QQSKILKVIRKNLVKK
291	P28271	2	XXXXXMKNPFAHLAEP
292	P16460	215	KTQDPAKAPNSPDVLE
293	P63038	389	SEYEKEKLNERLAKLS
294	P54869	350	EET Y T N K D V D K A L L K A
295	P62754	211	EAAEYAKLLAKRMKEA
296	H7BWY3	70	RVLAIHKQHLSPVDTA
297	Q9DBM2	278	AEKSANKWSTPSGASW
298	P60710	328	PSTMKIKIIAPPERKY
299	E0CXM2	51	YSRGLEKAGLLTKAEM
300	Q3UEJ6	696	YVKCQEKVSQLYMNQK
301	G3X982	1104	ACQILMKRLEPIIKQN
302	P32020	443	FKEIEKKLEEEGEQFV
303	P50247	186	VNDSVTKSKFDNLYGC
304	P05202	404	F SV Y M T K D G R I S V A G V

305	G3UYY1	414	KLAGEDEKIQSAVATLR
306	Q99KR3	283	TTTTPVKKWKAVLXXXX
307	Q8BW75	363	KEERLRKLCELYAKVL
308	P35700	185	PGSDTIKPDVNSKEY
309	J3QMG3	227	GIAAKYKLD CRTSLSA
310	D3Z041	208	DKPEKAKLLLEGVENK
311	E0CY88	53	DARELSKTYIIGELHP
312	Q9EQ20	113	RYQQLIKENLKEIARL
313	Q8JZR0	104	KPNQPYKWI SYKQVSD
314	Q8VCN5	325	GALQHAKAFLKNLKL
315	Q8R0Y6	876	APFGGFKQSGFGKDLG
316	D6RHN2	52	TVDVDPKSPQYSQVIH
317	Q8C196	1479	FAEAVQKSRTVDSKSL
318	Q9EQ20	87	AAVESCKRAFPWADT
319	P97807	63	LKVPTDKYYGAQTVRS
320	Q9DBM2	530	VGWKVRKQGLTGPSL
321	P61358	27	RKAVIVKNIDDGTS DR
322	E9PXV4	163	VLKAKLKDAVIQNTRD
323	D3YZ68	219	GWKVT RKGDSASG TTL
324	P40142	260	KEAWHGKPLPKNMAEQ
325	A2AUR3	90	LLYFKAKGGALVENT
326	Q9DBM2	336	QLDTAKKIITSTLEKE
327	Q9CPU0	148	FEE LGVKFVKK PDDGK
328	J3QNG0	53	ARKKALKLGAKKVFIE
329	P62082	74	QLKSFQKIQVRLVREL
330	P28474	107	KFCLNPKTNLCQKIRV
331	D3YWR7	43	GGNAKSKSLFKNC DMM
332	B1AU25	588	IARKLIKDG EQHEDLN
333	Q8C196	892	NMDKTLKGLNSDSVTE
334	P24549	22	LKIQHTKIFINNEWHN
335	P01942	17	IKA AWGKIGGHGAEYG
336	P55096	298	IHSVFRKLVEHLHNF I
337	P28271	396	ESCLGAKQGFKGQVA
338	O35490	98	EKISGQKVNEAACDIA
339	P16460	165	DLMEYAKQHGIPI PVT
340	B1ATI0	296	RLQSLLKKGKIAFGGE
341	Q8VCW8	182	VFPKQFKTQQYYDILK
342	E9PWK1	425	AAFEEPKLLAQDIRKF
343	G3UWE1	276	KHRSYLKEFRDYPPLR
344	P21981	589	LENPEIKIRVLGEPKQ
345	O88451	224	LSHSIEKLWDQTSSEV
346	Q8BH59	406	APEKAIKLTVND FVRD
347	P62702	233	VIGKGNKPWISLPRGK
348	Q8R0Y6	620	LKAGIPKGVVNILPGS
349	G3UWG1	87	MI FAGIKKKGERADLI
350	Q8C196	935	RELRLKKNIH PWVKQI
351	P10126	439	VAVGV IKA VD KKAAGA
352	D3Z6F5	489	SEQSDAKLKEIVTNFL
353	Q64442	64	GDFVVKKPMVLGHEAA
354	Q9D8N0	147	LLDTHLKRTRTFLVGER
355	H7BXC3	74	VIADNVKDWSKVVLAY
356	Q9EP89	288	AKPGKKND FEQ GELY
357	P24270	237	YCKFHYKTDQGIKNLP
358	Q61176	41	GLLEK LKET EYDVRDH
359	Q8R0Y6	735	EEVGKMKIGNPLDRDT
360	P63017	601	QQKELEKVCNPIITKL
361	F6YS63	96	LATTGDKDILDIVPTE
362	P42669	249	MRVSEVKPTYRNSITV
363	Q8C196	55	VLEDGTMKMGYSFGHP
364	A2A974	66	FGHKILKDQDLQDILT
365	O35129	216	AQFLVEKAKQEQRQKI
366	Q9ET01	29	ENVAELKKGFNRHLHF
367	O35490	241	LEAARLKAYLMSQPLA
368	P60710	326	LAPSTMKIKIIAPPER
369	Q9D819	199	YKVPDGKPENEFAFNA
370	Q8QZT1	84	IPKEEVKEVYMGNVIQ
371	E9Q133	343	LLRGASKEILSEVERN
372	E9Q800	274	AAQSEAKVVSQYHELV
373	Q91Y97	13	ALTP EQKKE LSEIAQR
374	P10126	255	PLQDVYKIGGIGTVPV
375	P35700	168	AFQFTDKHGEVCPAGW
376	O35490	283	TRWDIQKYAREAYNLG
377	P09411	323	GTESSKKYAEAVGRAK
378	F6ZHD8	212	ISSHEGKIASYKHFTS
379	B1AU25	383	KLKDG R K V E T D H I V T A
380	Q8VCN5	140	VDCSKTKLLEAAITPQ

381	D3YZ68	172	RYEEIVKEVSTYIKKI
382	Q9DBM2	579	GWYQYDKPLGRIHKPD
383	Q8R0Y6	129	LIHGDKKGGFTIFWAD
384	Q9QXX4	177	DNAKTGKVS AIDFRDI
385	Q8VCH0	209	ALASQQKAASAQSRGC
386	Q9QXF8	201	YKSDLTKDITTSVLTG
387	Q99L04	6	XMVAPMKGQVCVVTGA
388	Q3UT49	339	CDIKFRKYLIPKGTTV
389	D3Z4U1	112	TTLPEVKDRCFATQVY
390	Q8C196	44	LLSVKAKTAHIVLEDG
391	P70245	221	QSVLDSKVMKIKSKHN
392	P62908	230	SEQKGGKPEPPAMPQP
393	D3Z563	27	PGLLDLKGKAKWDSWN
394	P97872	486	KWAGARKTILTTEDRV
395	Q91X83	89	VVRDTIKHIGYDDSAK
396	P70694	301	VLDDLKNKIRYISGSS
397	Q8BWT1	171	AENLAAKYNISREDCD
398	P62852	98	LSKGLIKLVSKHRAQV
399	Q8C196	915	EIGFSDKQISKCLGLT
400	Q8C196	919	SDKQISKCLGLTEAQT
401	Q8R0Y6	882	KQSGFGKDLGEAALNE
402	Q8R0Y6	21	VYCQLRKEGHEVVGVF
403	Q8JZU2	97	LYGSIPKAAVRFGMFE
404	P38060	48	DGLQNEKSIVPTPVKI
405	P54869	354	TNKDVKALLKASLDM
406	Q91Y97	322	GKAANKKATQEAFMKR
407	Q3UPL0	791	LCKAQGKPVSGQESSQ
408	D6REG4	60	SDRVKLLDAAGANL
409	P58252	512	RVAVEAKNPADLPKLV
410	Q91Y97	317	LAAWGGKAANKKATQE
411	P37040	273	KSYENQKPPFDAKNPF
412	P54869	310	FCKMVQKSLARLMFND
413	G3UWG1	9	DVEKGKKIFVQKYAQC
414	B1AXW3	34	QVKAALKHALSAGYRH
415	P51881	105	FLGGVDKRTQFWR YFA
416			
417			
418	Negative dataset		
419	AC	Position	Fragments
420	Q8CGC7	815	VQTVSTKSSSNTVEST
421	P55096	50	PLQNEKEGKKERAVV
422	Q8CGC7	491	VNMEWDKIWAFNKKVI
423	Q3U2G2	571	QPPQAKKAKVKTSTVD
424	A2AIT6	217	KPFLTEKIKDRFICTG
425	P55264	330	SQLVSDKPLTECIRAG
426	Q64459	59	YYKGLWKFDMECYKKY
427	P55264	46	DKDFLDKYSLKPNDQI
428	P52792	140	LDKHQMKKHKLPLGFT
429	P62908	10	QISKRRKFVADGIFKA
430	J3QMG3	162	MSFDTAKSKLSQNNFA
431	O88451	125	AINEWLKKEDFANILD
432	P97494	46	RHKDVLKWGDEVEYML
433	Q8C196	603	SGICPNKETLIDLGTK
434	D3YZQ9	265	ADKEQWKEVHKQVVDX
435	E9PVP0	307	KHQPHFKPWLHPEQSP
436	Q99J08	266	YGGDIPKQYYVRDQVK
437	Q8VCW8	576	KAFCKGKISHFKIPRY
438	Q5SXR6	1520	IAAYLFKGNRQSV
439	P32020	211	SLEEVMSKPVDFDLT
440	D3YZ68	41	DKRTIEKFEKEAAEMG
441	Q9CPY7	356	VRARNGKTIQVDNTDA
442	P58710	82	LQVDKEKKQVTVEAGI
443	F8VPN4	330	VTKSEPKEHLKIIQDP
444	Q99KR3	91	GIVDICKNINNDTTYC
445	O09173	353	KGHYEAKQGGFLPGGG
446	Q91ZJ5	473	GKNVSLKGTVIIIANH
447	Q9DCD0	253	GKELLPKIRDSAGQKG
448	F2Z459	124	GMENMSKAPHLTHLRT
449	Q920E5	121	QICWYQKPGIGLDAN
450	Q3V117	498	LSRHTKAIWGMQTR
451	Q3UT49	360	SVLHDSKEFPNPEMFD
452	P97872	65	VVINTSKEMMCFSDYP
453	A2AIT6	248	LGNMAVKSSPWRFVVR
454	Q64433	8	AGQAFRKFPLPLFDRVL
455	A2ANX6	189	LCNTPQKPNDRDHKVK
456	D3YUM8	77	LNLYMLKEGRHIKPF

457	Q91V76	22	LAEVLQKGLTDNFADV
458	Q62446	110	LDEGPPKYTKSILKKG
459	E9PWK1	219	SRLGFQKFYIQGGDWG
460	Q91V64	84	QYVDLPKGFVAVSERCK
461	P63017	415	VMTVLIKRNTTIPTKQ
462	Q3UEJ6	416	ADLIAEKIGEDYVKDL
463	Q9CPY7	455	DVNNLGKYRSAGACTA
464	F8VFN4	415	LAGHGPKLGPVTRKYP
465	P40142	16	QKLQALKDNTANRLRIS
466	P05202	185	YRYYDPKTCGFDVSGA
467	Q9CPY7	229	LKSASSKTKVHIRPKS
468	Q5SXR6	457	LLEKWLKEDKLECSSE
469	Q80ZV3	120	VNSSWQKKGPTEPLKV
470	Q9D8E6	269	LYGTWRKAASLKSNNY
471	Q6P2B2	48	PNFRVGGKIGCGNFGE
472	G3X982	200	KNSVCTKLYEKKEFQP
473	P97872	344	FLEDSVKVVKNKVSLY
474	B1ARR7	89	NVVEQEKIDKLMIEMD
475	P63038	481	PAMTIAKNAGVEGSLI
476	P07724	305	LQTCCKPLLLKKAHCL
477	F8VFN4	1024	LLDVAVKQMSFVQNG
478	O88451	234	QTSSEVKEVYDKNFLD
479	O09173	160	FLIVPQKGLLIYTEF
480	Q9QXF8	123	NWLTLDKDVLSGDGFD
481	Q922Q8	138	LDEKQCKQCANKVLQH
482	A2ANX6	198	DRDHKVKKALGNLGRG
483	P58710	405	AHNCTRKDFEKMYPAF
484	Q5SXR6	1396	WKEGQFKDIITKVANV
485	Q8R0Y6	561	NLTLTKKEPVGVCIV
486	Q922Q8	216	KREQEKKPKKEANQAP
487	P00329	324	AIFGGFKSKDSVPLV
488	P62984	113	AVNCRKCKCGHTNNLR
489	E0CXM2	297	LPSTYNKDLQEDKEAV
490	P05202	279	LCQSYAKNMGLYGERV
491	Q8BP40	343	LGIFDQKWPPFAVDLT
492	Q9D6Y7	27	MGDSASKVISAEELP
493	P62852	20	KSAKDKDPVNKSGGK
494	P62301	76	KILRILKSKGLAPDLP
495	Q3U2G2	614	MQDKLEKERNDAKNAV
496	P63017	597	EFEHQQKELEKVCNPI
497	O70250	228	QNLKPTKPMRFLGDEE
498	P58252	61	RFTDTRKDEQERCITI
499	Q922D8	370	KHQPDGKYVVVTGITP
500	P07901	658	EADKNDKSVKDLVILL
501	G3X982	1009	IAIIPMKFSVGFPKTF
502	G3X9Y6	183	LNKPGLYKYPVCNQVE
503	H7BWY3	481	SRQPLPKTEVNQIHED
504	F8WIT2	40	KGFGSDKESILELITS
505	G3X982	1000	QQRFWKKRGIAIIPMK
506	D3Z1U3	133	KDTLPLPKLPRCNLEII
507	F8VFN3	49	EKGFGYKGSFHRIP
508	D3Z3F7	212	GGSCFQKDVNLVYLC
509	A2AQN4	159	RKQGIQKGDRAIYMP
510	Q64459	166	LRQKAKKGPVMTKDV
511	P62754	93	RRTGERKRKSVRGCI
512	Q91ZJ5	468	GDVTFGKNVSLKGTVI
513	P37040	487	KSGRVNKGVATSWLRT
514	Q99J08	255	DGNPKCKSKINYGGDI
515	P00329	232	NKDKFAKAKELGATEC
516	J3QNG0	155	EFYNRFKGRNDLMEYA
517	P01942	12	EDKSNIKAAWGKIGGH
518	A2ANX6	320	LRDVFKKGDIYFNSGD
519	P19096	2123	TQRDLVKAVAHILGIR
520	P07901	153	KVTVITKHNDDQYAW
521	P21981	30	ADLCQEKLVLRRGQRF
522	P63038	310	GFGDNRKNQLKDMAIA
523	E9Q800	190	SEIAGEKKSQWRVTE
524	Q8BMS1	625	LKQMVSKGFLGRKSGK
525	Q61176	191	GEHYLIKTLGIKYFSM
526	Q9D819	260	CDPDAAKAIVDALPPP
527	P62082	37	EMNSDLKAQLRELNIT
528	J3QNG0	4	XXXMSSKGSVVLAYSG
529	D3YUX8	103	VGSLSVKCLSTPCHTS
530	Q9DD20	50	TARSYKMMESKKRELF
531	F8VFN3	101	SCPCTAKTEWLDGKHV
532	Q9DCD0	308	QKLGPKVQVQLEGSKK

533	P62301	100	KAVAVRKHLEARNRDK
534	Q9WVL0	152	LQSTAGKYCVGDEVSM
535	H3BJZ9	201	TTVLDDKGDKKTITVS
536	P06801	342	SKGLIVKGRASLTEEK
537	F8VPN4	151	SRLRVAKESGYNMIHF
538	E9Q509	282	GIKIISKIENHEGVKK
539	Q91WS0	42	AKENRTKAMVNLQIQK
540	P21981	173	IYQGSVKFIKSVPNF
541	P26443	352	KELEDFKLQHGSIILGF
542	Q8JZR0	128	LLHKGYKSSQDQFVGI
543	Q91X83	182	WLRPDSKTQVTVQYMQ
544	P62754	221	KRMKEAKEKRQEIQAK
545	E9PZJ8	424	AFIAGAKMILPEGIQR
546	Q9EQ20	436	TLDEAIKIVNDNPYGN
547	Q8BMS1	351	GQVLCCKKNKFGAPQKN
548	P16015	135	TFGEALKQPDGIAVVG
549	Q05421	195	FDYDDKKCLELMSLFN
550	Q91X83	33	GEGHPDKICDQISDAV
551	E9PZJ8	1151	KNLTVDKLKDMDRDEI
552	P62082	111	TRKSRTKNKQKRPRSR
553	Q6P2B2	178	IGRQGNKKEHVIHID
554	B1ATQ3	125	YAKKSVKVIIVGNPAN
555	Q99L04	220	PLFKMKKPDFSSAESP
556	D3YU60	85	FFLHQFKTCCYFHNQM
557	Q8BW75	348	GFILAHKARKLVRITK
558	P58710	388	AYETIMKKFGGRPHWA
559	Q91ZJ5	357	EIIIVNPKTLDGGLNVI
560	P60710	336	IAPPERKYSVWIGGSI
561	Q4LDG0	557	GDTFRWKGENVSTGEV
562	P24549	17	APLADLKIQHTKIFIN
563	Q9WVL0	27	RIALALKGIDYEIVPI
564	Q99L04	202	VQTEMVKEFMAKEDTP
565	Q9DBM2	569	AGRFGQKTGKGWYQYD
566	F6SAC3	398	NSIVFTKLTFFILGAL
567	Q8JZU2	255	QGLEAHKYRNTLDCGL
568	Q9DBM2	586	PLGRIHKPPWLSSEFL
569	J3QNG0	355	VQVSVFKGQVYILGRE
570	Q91X83	235	KAVVPAKYLDEDTVYH
571	E9PVP0	287	APKAMKKMYKACIKYP
572	J3QMG3	62	SGNLETKYKVCNYGLT
573	O35490	7	MAPVAGKKAKKGILER
574	Q8CHT0	357	SRLYVPKSLWPQIKGR
575	G3UW86	473	TPRTPSKRPGQTPKKS
576	Q5SXR6	1539	KKDSLYKDAMQYASES
577	P40142	609	KMFGLDKDAIVQAVKG
578	Q91ZJ5	60	DLDGFRKLFHRFLQEK
579	P40142	538	LDPFTIKPLDRKLILD
580	E0CXM2	261	SSLMPQKKNPDSLELI
581	J3QNG0	308	MDREVRKIKQGLGLKF
582	Q9EP89	153	ENRVPCPETVMRIAS
583	G3UW86	178	EEFVNIKKQIILCMEE
584	Q3UEJ6	101	HGNPWEKARPEFMLPV
585	Q91Y97	330	TQEAFMKRAMANCQAA
586	A6ZI44	254	DGDHDLKRCQYVTEKV
587	Q8JZU2	149	METIKVKFIHDQTSN
588	P56480	212	GGAGVGKTVLIMELIN
589	E0CZH6	141	RLKKKVKMEYFRPNIV
590	Q8CGC7	632	YEHLITKPVLGKDEDF
591	E9PZJ8	533	IKKNEFKIVVAPMKA
592	P52196	175	LENLQSKRFQLVDSRA
593	P07724	88	SAANCDKSLHTLFGDK
594	P10854	121	GTKAVTKYTSSKXXXX
595	H3BJZ9	79	LQDVRLKPEQLGDISV
596	F8VPN4	1415	LGPLGMKTLDPDDMVY
597	E9Q800	207	ALKERRKAVDEAADAL
598	P62754	14	PATGCQKLI EVDDERK
599	Q9CXW4	118	HIDLGIKYDPSIGIYG
600	Q91V76	76	PLVNKKKVYDLNEIAK
601	Q9R1P1	41	VTTDFQKIFPMGDRLY
602	Q8C196	350	TLPAGWKPLFVNVNDQ
603	P62301	42	QIYKLAKKGLTPSQIG
604	Q9D819	57	PRWSNAKMEIATKDPL
605	P21981	630	EGAGLTKEQKSVEVSD
606	Q05421	428	KYSDFYKAFSAGKRVC
607	P06801	536	YPEPQNKEEFVSSQMY
608	Q99L04	106	ILNTTNKSFWEVPASI

609	O88451	311	LYWSSVKPAQALXXXX
610	Q9CPU0	44	RIKDPKKSLEDFYTRVL
611	P58252	594	NVLCCLSKSPNKHNRLY
612	Q9WV68	71	VTTAAKKLVAAATGKRC
613	G3X982	945	CRLPPEKVVRELNMYRT
614	P28474	120	IRVTQGGKGLMPDGTSR
615	Q8VCN5	270	RMEKHFKNMGMAVARFL
616	Q3U2G2	789	PIISKPKPKVEPPKEE
617	H3BJZ9	265	AVYCVKELGIPAIEKVN
618	Q9EP89	299	QGELYLKEKFENSIES
619	P61358	98	DKTVVKNKDVFRDPALK
620	F6ZHD8	143	PHGSKLKVVITSKSGE
621	Q922Q8	108	VSFAQLKNLKWLDLKD
622	Q9DCD0	119	CRDLKAKGILFVGSV
623	Q922D8	21	QIRDRLNQVTRMQEQ
624	Q64374	106	NRFNDGKVDPAGRYFA
625	Q8QZT1	260	KRVDFSKVPKLTQVFQ
626	P35700	192	PDVNKSKEYFSKQKXX
627	P62702	254	IAEERDKRLAAKQSSG
628	G3UW86	296	IKQVIEKIRVELAQFW
629	P07724	229	KCSSMQKFGERAFAKAW
630	E9PZF0	26	LVGEI IKRFEQKGFRL
631	Q91V76	43	DCPDLTKPEFTFPVVRG
632	P37040	555	WLREQGKEVGETLLYY
633	P28271	785	SRDWAAKGPFLGIIKA
634	Q8R0Y6	539	FAGWCDKIQGATIPIN
635	A2A974	63	HWLFGHKILKDQDLQD
636	B1ATI0	447	PPNSESKVSWAKFFLL
637	P55096	120	IIGRSSKDFKRYLNFN
638	Q8BMS1	493	VSKRPEKVIKGMHYFSP
639	P09041	350	EWDAFAKGTALMDEV
640	Q9D0F9	27	GLRKRKVFQSNANYA
641	Q3UEJ6	199	DNFFEGKELRLKQEYF
642	E9Q133	15	VLSQNTKRESGRKVQS
643	P97807	308	FVTAPNKFEALAAHDA
644	Q91ZJ5	319	AHVDEFKSVSKFKIFN
645	Q9EQ20	41	SSVPTVKLFIDGKFVE
646	F6SAC3	414	IAMYEHKIFVQGIIMWD
647	Q8C196	908	ETLRKAKEIGFSDKQI
648	F8VPN4	787	TIERNTKPYKKDENSI
649	Q9CPU0	96	AWTFSRKATLELTHNW
650	P07901	568	QEEKTKFENLCKIMK
651	Q8CGC7	528	DAQEEMKEVARHPKNP
652	Q9EP89	515	SEAVNKNVPPRGIIVS
653	E9Q800	647	VAQDWLKEARMTLETK
654	P08228	71	FNPHSKHHGGPADEER
655	Q8CGC7	497	KIWAFFNKKVIDPVAPR
656	P63017	493	NVSAVDKSTGKENKIT
657	Q8CHT0	317	AGECGGKNFHFVHSSA
658	P10126	444	IKAVDKKAAGAGKVTK
659	E0CXN5	266	SIEQLEKEMLNQKQLQ
660	P24270	468	NIAGHLKDAQLFIQKK
661	Q5SXR6	1134	AIDSYIKADDPSSYME
662	P11983	33	SIANIVKSSFGPVGLD
663	P10854	47	YVYKVLKQVHPDTGIS
664	P26443	397	SNAPRVKAKIIAEGAN
665	P38060	111	VLTPNMKGFEVAAG
666	Q64459	165	YLRQKAKKGPVTKMD
667	Q9CPY7	45	GIYAKDKDDDLQFQTS
668	O88451	86	VILDVTKTESIVAATQ
669	Q64459	67	DMECYKKYKGTWGLFD
670	Q91V76	256	LPVFVSKDPGLDLRLE
671	Q8VCW8	402	INKMMKELVVVYGT
672	G3X982	421	FVPRSSKWEFVSAFRQ
673	P07901	415	ILKVIRKNLVKKCLEL
674	P37040	358	DEESNKKHFPCTTY
675	A2AQN4	227	EKLVNLKELADESLEK
676	F8WIT2	299	FRTKYEKSLYSMIKND
677	F6SAC3	317	LIHQGTMKMPCDFLIP
678	Q8K4Z3	263	VPPALEKKYQLNLPSY
679	Q8BWT1	332	QFLSVQKALDLDPSKT
680	Q8K4Z3	264	PPALEKKYQLNLPSYP
681	Q8JZR0	662	TPTLAKRVELAKFFQ
682	Q922D8	157	GCLELIKEAGVQIAGR
683	Q8VCW8	581	GKISHFKIPRYIVFVE
684	Q8JZR0	287	NMAAFLKFLLEPIFQPT

685	E9PVP0	224	IMNYSVKHPKYPPRKD
686	Q5SXR6	1213	DRCYDEKMYDAAKLLY
687	Q922D8	657	ADRIALKLVGPEGFVV
688	P63017	357	QDFNKGKELNKSINPD
689	G3UWG1	101	LIAYLKKATNEXXXXX
690	P05201	346	ARLEALKTPGTWSHIT
691	Q5SXR6	193	LYSVDRKVSQPIEGHA
692	Q8VCW8	169	LEYVLRKVGCKGIVFP
693	G3UW86	427	FVVGQKFMFYVTEQW
694	B1ATI0	145	LSENTAKILAEELLPOY
695	A2AQN4	120	EKKLGDKVAFYWEGNE
696	Q9D8N0	241	KGSREEKQKPQAEKKE
697	P63017	220	DGIFEVKSTAGDTHLG
698	Q9JLF6	629	VSGPTFKKAEKKEVTLA
699	Q91V64	272	LQLVADKDHKPKFKEIQ
700	H7BWY3	289	TDCCQAKERYIEQFKD
701	Q64459	29	YRYGTRKHELFFKKQGI
702	Q3V117	995	ILKDFVKQHFPATPLL
703	Q9D819	70	DP LNPIKQDVKKGKLR
704	Q91V64	181	VKLVLPKTKFSMVLPE
705	Q91X83	304	AARWVAKSLVKAGLCR
706	P62702	10	GPKKHLKRVAAPKHWM
707	Q9D8E6	316	HRRVLKKNPLKNLRIM
708	G3UWE1	268	QMTIWAAGKHRSYLKE
709	A2AQN4	90	FDVTGKGI FT EWMKGA
710	A2ANX6	404	NYEFNGKKLFQHIAEY
711	Q9DBM2	67	ADIHGFKSPTGLTLGS
712	Q8R0Y6	852	ALYVSDKQLAGTVFVN
713	Q922D8	488	SVNGIRKFSDIQIRRL
714	P24549	490	YEYTELKTVMAMKISQK
715	E9PWK1	334	DGGLERKFSLEDLLTN
716	Q9EQ20	47	KLFIDGKFVESKSDKW
717	Q9D0F9	360	ETPTGWKFFGNLMDAS
718	E9Q1H3	139	VSLEMGKILVEGIGED
719	P14115	127	PVIVKAKFFSRRAEEK
720	E9PZJ8	312	LQDSCKKILGENSKPN
721	Q9R1P1	83	KEGRQIKPYTLMSMVA
722	P07901	100	TGIGMTKADLINNLGT
723	P97494	588	ANHPDYKQDSVITDEI
724	P08228	10	KAVCVLKGDPVQGTI
725	P10126	244	PTRPTDKPLRPLQDV
726	Q3UPL0	787	LRDRLCKAQGKPVSGQ
727	Q9QUH0	14	CKIQSGKVVF IKPTC
728	Q8VCR2	153	GHFWI IKALLPSMLRR
729	P37040	357	LDEESNKKHPFPCPTT
730	Q8JZR0	496	EGEICIKGNNVFKGYL
731	P58252	42	TDSLVCAGIIASARA
732	Q9D8E6	195	MRAGKGMNRNRRRIQR
733	P19096	673	QEGVFAKEVRTGGGLAF
734	Q3U367	125	ETINNGKSI FEARLDV
735	P19096	298	AHGTGTVGDPQELNG
736	P40142	456	DGVATEKAVELAANTK
737	A2ANX6	280	ANGYCIKVPKGEVGLL
738	Q64459	55	TVLNYYKGLWKFDMEC
739	D3YZQ9	35	PVSKDSKSKMATLKDQ
740	Q5SXR6	1419	QFYLEFKPLLLNDLLM
741	Q93092	230	YKKFGYKTIVMGASFR
742	E0CZH6	80	WFTNYLKTQAYRLVQF
743	Q8VCN5	287	TNPRVEKVVYPGLPSH
744	P63038	218	EII EGMKFDRGYISPY
745	Q5SXR6	575	FLLDALKNRNPSEGPL
746	E9PWK1	43	GSKPSAKEDESIRPFK
747	G3UWG1	56	TDANKNKGITWGEDTL
748	Q3UEJ6	669	NQPDLFKDIINMLFYH
749	Q78PY7	389	IQDKNKKLRPLYDIPY
750	P21981	265	DILRRWKEHGCQQVKY
751	B1ATQ3	118	QGTALEKYAKKSVKVI
752	D3YWR7	18	VTADVGLKLGDKQVDA
753	Q9DBP5	160	TYLESTKPIIDL YEEM
754	P97494	471	KVDENMKVAQKRDAVL
755	D3Z041	629	EELCRNKDINKAILDD
756	D3Z492	333	RAFAMEKREEERYQAE
757	P97872	186	PVEFTGKRIVIVIGIGN
758	A2AQN4	222	AFYRGEKLVNLKELAD
759	Q93092	142	KDRILIKLSSTWEGIQ
760	Q8K4Z3	240	SLTAPKKSATHFTGRY

761	F8VPN4	996	AMFFYLKQIPRYLIPC
762	B1ATI0	85	ASARPAKKNLLTMMDE
763	P62754	160	RQYVVRKPLNKEGKKP
764	Q8VC30	413	THSRAAKAIQGWLKEG
765	Q3UPL0	384	SIVLPLKKPPKWIRRP
766	Q5SXR6	692	CVQVASKYHEQLSTQS
767	P62082	107	LPKPTRKSRTKNKQKR
768	Q922Q8	14	GGNLRDKLDGNELDLS
769	Q9DD20	105	PNPNFEKFLTKSMAEN
770	E9PZJ8	873	IITTHDKLSHYLSLLT
771	Q8R0Y6	437	VDAEGAKTYSTINPTD
772	Q3U2G2	437	VLTFYRKEPFTLEAYY
773	B1ATI0	51	IAADLSKSELNAYSHE
774	Q9CPU0	40	QTMLRIKDPKKSDFY
775	Q9DBP5	73	ITISLLKREMDQTMAA
776	Q3UEJ6	743	MEPSDLKISLSNESN
777	Q8JZR0	75	YFSDAKTLYENFQRG
778	Q920E5	297	GQKDPEKVARVKALYE
779	P52760	78	DFNNVVKTTVLLADMN
780	Q9CXW4	8	AQDQGEKENPMRELR I
781	P40936	40	AEQEIVKFSLQNLQYT
782	E9PWK1	159	SFYEFYKIIPLLTDPK
783	P55096	144	LVNNFLKYGLNELKLC
784	P07724	65	SYDEHAKLVQEVTDFA
785	P70245	209	LVLDAIKHLTSAQSVL
786	H3BKL5	366	PGLHGSKAGCHATQXX
787	A2AQN4	555	FETTYFKKFPGYVVTG
788	P21981	74	SEEAGTKARFSLSDNV
789	F8VPN4	1399	TAEKAWKALEIAEKKL
790	P05202	107	GLAEFCKASAELALGE
791	A2ALT5	8	SDKLPYKVVADIGLAAW
792	D3Z1U3	70	CDHIVQKARERGAIV
793	P58252	400	LMMYLSKMVPTSDKGR
794	P30115	182	DNFPLLKALRSRVSNL
795	Q9QXF8	97	MLKYALKERWNRKPEP
796	Q8CGC7	129	CVWATLKGSAAWQEHL
797	Q91WS0	32	LGYLAYKKFYAKENRT
798	P56656	48	FLQIDIKNVSQSLTNF
799	P00329	326	FGGFKSKDSVPKLVAD
800	F6ZHD8	631	FNHFPSKSYTDYRVGT
801	Q9DD20	131	AYGENMKQLADSSMDV
802	G3UW86	228	LKQLEMKKSQNEAECE
803	P00186	206	GAMCFGKNFPRKSEEM
804	Q8CHT0	436	PCIIIESKDPQEPIMKE
805	Q8BH59	661	LYLPKFKSPSVAVAQP
806	D3Z041	491	MPCNYVKLV DVEEMNY
807	B0QZL1	162	GSHAGNKLAMQEFMIL
808	Q3UPL0	502	KEDLGQKIALALNKVD
809	Q8CGC7	1156	VVRWEFKHPQPFLRTR
810	F8WIT2	354	VSRVELKGTVCAANDF
811	D3YZ68	146	AYTLGVKQLIVGVNKM
812	Q64459	257	KFVDRMKESRLDSKQK
813	A2ANX6	254	ANYLQRKVARYELIKY
814	E9PZJ8	1421	DMKSIKADLIVTTPE
815	Q8CGC7	318	RKNSVEKNLQMWEEMK
816	Q8C196	970	GQEHDIKFDEHGIMVL
817	Q05421	51	IFQLDLKDIPKSLTKL
818	Q922Q8	196	REKAEERERRRKEYDA
819	P16858	160	CLAPLAKVIHDNFGIV
820	P62908	141	EVVVSGLRGQRAKSM
821	P14115	77	PTVNLDKLWTLVSEQT
822	Q3V117	561	NMADAMKKHPEVDVLI
823	Q64459	289	KDKVSHKALSMEITA
824	B1AXW3	23	IGLGTWKSEPGQVKAA
825	Q93092	115	ARLSFDK DAMVARARR
826	P11983	43	GPVGLDKMLVDDIGDV
827	Q8CGC7	602	LENKDYKKTITWLA
828			