

ePST	MS-peptide	Length	ORF with Met start	ORF length	Start	End
1	FSFFTPhffNTSPSVLSSNAASK	23	MARRISSSRPITGSSPLSARAVKSIVYFSNAWRLSSAFGSFTFCPPi	150	1911359	1910909
2	GFQCPHRRHTIVVSDHFDLICFRAR	25	MCFRGFQCPHRRHTIVVSDHFDLICFRAR	30	1222058	1221968
3	QMLAGSRDILMSAMVRSPMAQHR	23	MCLISQMIFSGVRQMLAGSRDILMSAMVRSPMAQHR	38	803075	803188
4	RNTVGMIRSGYYLITMSFGK	20	MDFVLLNNSIVNYWGFRIVSKRNTVGMIRSGYYLITMSFGKMMMR	47	957617	957476
5	LKVIVVPVGNILYKTAFDAK	21	MDMKLIISDKIVDKLKKKHSVSINEIYECISNIDGKLIEDAEHKTIPPS	97	1321688	1321397
6	KTMHQRVSFAR	11	MISVAVLISERKTMHQRVSFARIRWKNTAHFILFFSISFSSSLRNHNG	58	588108	588281
7	IEPCVITTLVSVKVTLLSMSK	21	MITLLALMRIEPCVITTLVSVKVTLLSMSKDWLSETTLIGCFVSLFKAK	77	197682	197912
8	LMISAAVPCIGALMATRSAALR	22	MIVRKCSILSVRTSKTNSSCTCMILMSGCPAISRSKVIIARLMISAAVF	86	1256847	1256589
9	KPLVQK	6	MKGKSLSTKVTSLTMRNGRRKPLVQKPPSHTA	33	498064	497965
10	HIYCLMVPPPCWWIKWNK	18	MKHIYCLMVPPPCWWIKWNKWCV	24	1621633	1621561
11	RRMCHSCSIIK	11	MKKQCSYSHRQKKKKRRMCHSCSIIKIMMFR	32	592816	592911
12	TIYFIMCKKMEK	12	MKKTIFYIMCKKMEKEPLMLSLKKSWQN	30	262537	262447
13	MKQDALCLKR	10	MKQDALCLKRSMIYSI	17	736606	736656
14	RCFMICVK	8	MKRALRRCFMICVKHEGTNKRYYR	25	500324	500398
15	YVKLICELTK	10	MKRYVKLICELTKNLSFCIFVKHGIG	27	1090953	1090872
16	QDQACITLKSIVVSMMSIYTK	22	MLANFKSCRQDQACITLKSIVVSMMSIYTKSGSYRSQKALHRVMN	58	1894607	1894780
17	PSLLHILLTSHFVRQCAK	18	MLEKKARPSLLHILLTSHFVRQCAKLIKRTPNQAINQVHPSYCVRQ	53	1725914	1725755
18	NMMSKPLLSVIAR	13	MLFVKKQYKVLQKNMMSKPLLSVIARAVP	30	1125410	1125499
19	MLITLVKLSMK	11	MLITLVKLSMK	12	308038	308073
20	YMWQPFMLCAQMVWPFLPMNR	21	MLKGKKPPVKSSVVMFIAMTQPQQRYMWQPFMLCAQMVWPFLPM	48	1441752	1441608
21	KTSRVVISSQLMR	13	MLNKGCTDKNRIPQTARKTSRVVISSQLMRKRFRQINQ	39	384052	384168
22	HRICIFCGIAIHTIDFR	19	MLNNSIIQLMIKHRICIFCGIAIHTIDFRF	34	2227320	2227218
23	LKQTLQAQLAK	11	MLNPKKIEQVIQIQDLSLPQGIKDLGQDAEAKLKQTLQAQLAKLDLV	84	1582305	1582556
24	KIEQVIQIQDLSLPQGIK	18	MLNPKKIEQVIQIQDLSLPQGIKDLGQDAEAKLKQTLQAQLAKLDLV	84	1582305	1582556
25	KIEQVIQIQDLSLPQGIKDLGQDAEAK	27	MLNPKKIEQVIQIQDLSLPQGIKDLGQDAEAKLKQTLQAQLAKLDLV	84	1582305	1582556
26	MHALSALMK	9	MLSLSKMHALSALMKIPMQN	21	1508804	1508741
27	ARLRMSSMPK	10	MLSSLLINCCVKARLRMSSMPKC	24	1531788	1531859
28	LRLVSNMPRIMLLR	14	MLSRLRLVSNMPRIMLLRAVI	23	983158	983089
29	LTMILPCDSIAPFATPVVPPVYCK	24	MMALRSFVRSPTNGSAIQLAWNKLTMILPCDSIAPFATPVVPPVYCK	61	825518	825700
30	NYTIAMIYCGNTAKLPYLK	19	MMCLRNYYTIAMIYCGNTAKLPYLKLV	27	1458554	1458473
31	NLFLIMK	8	MMVEVSGLFNNKIPMLPTIYTVKPLLNFLIMKFL	40	724110	724229
32	TALARNK	7	MNLISKPEQRTALARNKWRKRETNLSLSKYFGLGLKCTVVPVLR	67	434990	435190
33	WIVSNLRLSVEQAGLMMR	18	MNRWIVSNLRLSVEQAGLMMR	22	516463	516528
34	MRCTYAILLWVILIKAVSLQK	21	MPLKRSTYATPLFLVILVRLNKSCKLLMRCVLLKAKIMRCTYAILLW	61	331911	331728
35	MPPPAAEKNIAR	12	MPPPAAEKNIARYSFASRVI	21	1659228	1659290
36	PHMFLMCGFVFLLAIKIK	18	MQKPHMFLMCGFVFLLAIKIKVVADHIFALIRHSFAKIHYLE	44	2028968	2029099
37	RRSMLPK	7	MQKRSSMLPKIL	13	2022017	2021978
38	MQLNILYLTMITISQKLMCQVAILLRK	28	MQLNILYLTMITISQKLMCQVAILLRKMRRLMIKSNKCAYLPLNRF	48	503708	503851
39	CCCGICFCFVSVIALTNTCEPLCFK	26	MQPSSTRKVRCCCGICFCFVSVIALTNTCEPLCFKRSANKARLY	46	1354808	1354945
40	PMQQGLNTLKLILGRTL	19	MQVKDKKPMQQGLNTLKLILGRTL	32	838881	838785
41	LVLMSAMK	8	MRGKLVLSAMKSK	15	2219181	2219136
42	LRPLPNSENNNTYCKCK	18	MRKLRLPNSENNNTYCKCKIEG	25	2230403	2230328
43	ELTFAFLWLTQAPMLNVVCL	24	MRLKRIFAVCLISKKELTFAFLWLTQAPMLNVVCL	44	1759407	1759538
44	DYTYELHTK	9	MRLVRNKMNLGVFMKLNKTALITATLATSLSAISAQATIMEASSKGEL	131	334077	334469
45	TLDVIFVNTSK	11	MRLVRNKMNLGVFMKLNKTALITATLATSLSAISAQATIMEASSKGEL	131	334077	334469
46	AINRDYTYELHTK	13	MRLVRNKMNLGVFMKLNKTALITATLATSLSAISAQATIMEASSKGEL	131	334077	334469
47	AINRDYTYELHTKGNK	16	MRLVRNKMNLGVFMKLNKTALITATLATSLSAISAQATIMEASSKGEL	131	334077	334469
48	DSFAINQVDEMIPLEIVK	19	MRLVRNKMNLGVFMKLNKTALITATLATSLSAISAQATIMEASSKGEL	131	334077	334469
49	TLDVIFVNTSKDSFAINQVDEMIPLEIVK	30	MRLVRNKMNLGVFMKLNKTALITATLATSLSAISAQATIMEASSKGEL	131	334077	334469
50	NDQANPTNPNPCNR	13	MRNDQANPTNPNPCNRHS	19	1503597	1503540
51	MSFTTNGAANAVVEPNNK	18	MSFTTNGAANAVVEPNNKLAKISFFIVNVIL	32	2232585	2232489
52	RAICGMKPTQPIIPVIDTAAEVM	29	MSKLKKGAPTRVIMPKGTSMEKIERAMVSVSSKKVAPINKLVGNK	152	1503773	1503317
53	SMVKVIVSVVWNWK	14	MSLFVVFANILKIQKPKQLSPRSMVKVIVSVVWNWNLDSKSL	45	243076	242941
54	PIVMAILSLLSHSIGK	16	MSLQRIKLVIPHGHASCYSSKKNWHYLGKPIVMAILSLLSHSIGKAL	52	241063	240907
55	ILPIGAKVAVWGGGHGVLNHAYAMCCNK	29	MSQKILPIGAKVAVWGGGHGVLNHAYAMCCNKS	35	826506	826401
56	SIGLTLGCMVEDPISPAMVRCLK	23	MTALAKPRFPSEFSKISGLTLGCMVEDPISPAMVRCLK	39	2092508	2092391
57	IKNNGSRIGSCALCHHR	17	MTCGSRLHRIKNGSRIGSCALCHHRNTVFTPHLQLNRRRTERIT	50	1718868	1718718
58	KMRISK	6	MTGTACAIRKSATASVQEQQKMRISKPLV	30	1538874	1538784
59	GRGNQNPQK	9	MTKLKGRGNQNPQKRNDRQQKVFFCF	27	537587	537667
60	EMSNLSSASSASIFR	14	MTKVQRFWYACTTKPIPLKCAKSGSANKRSTKSKEMSNLSSASSASIF	78	679913	679679
61	LKGISSLHPLFHVLK	16	MTSMLWQKLKGISSLHPLFHVLKIVV	27	832047	832127
62	KPSSLVAILR	11	MTVPTRVKEIAIPKARVNKPTFRFAMAEATIGRIGKTHGERVVSNP	99	1914086	1913789
63	MVLISIVVVR	10	MVLISIVVVRQKR	14	2122063	2122104
64	TMYTVSVVLGVRGR	14	MWLHVYVYISLMCRMCLIMCIQMIARTMYTVSVVLGVRGRVECRVLV	53	2161454	2161612
65	LSGMAVPSFTKIGTTFFTKR	22	MYFTISKLSGMAVPSFTKIGTTFFTKRIGVSSSSFNRTCFKLGMMF	59	595885	595708
66	VICCVQNHKEIAQTLHLVLSRMK	24	MAAGLRAGKSRITGLIVPDFENASFARIATHLEAGFRQKGYQLVIACS	277	1021842	1021011
67	SSCCCAEISSRALISGRFTNFK	21	MAKGFISVRRKNKYAWRRSSCCCAEISSRALISGRFTNFKAGCCRAL	94	442743	443024
68	PAYCVCKPPTMARTSPK	17	MAGFTKEPIWRLALKARLKPAYCVCKPPTMARTSPKR	38	531350	531463
69	PIVSQYNKLYQLIWER	16	MAITTGQNWKKPIVSQYNKLYQLIWERYSLPFCVFTLNKNLWLSQ	47	2078221	2078361
70	HMHHTVELIDTPAVR	15	MAKTIKVTQVRSSARLPKHKATLRLGLRLMHMHHTVELIDTPAVRGM	60	1589941	1589761
71	GKIVHSITKPPK	12	MAKWSRKCVTHIAVAPQTATGITTFTKGIVHSITKPPKLSALFS	66	1902434	1902631
72	SCLKPFGKLNFAWK	14	MALIGTPFNLLYNTINAEKESAEQPSASKQLKIYTCGMGKVGCAKLI	82	379666	379420

73	KINFLVMNLSSEDLKVELLQATVVVR	26	MALIVCIRKINFLVMNLSSEDLKVELLQATVVVRIFHKPLASLFHKKLTF	81	63767	64009
74	LVSEILCLRPVMPMLPLLASAPRAR	25	MALVPSVLFPHLYALLRLKQQSSSLEKLVSEILCLRPVMPMLPLLASA	71	1466089	1465876
75	ATGIKAPPK	10	MASRATGIKAPPKPCNTRARTRVSSVLEMAQATDPITKMLTAMRKIF	70	2010039	2010248
76	SNACNSMITPIKEIGIVITGMRIAR	25	MASSTTSPIAKIKASKVIKLEKSNACNSMITPIKEIGIVITGMRIARNE	84	1331508	1331759
77	AASILPTMILASDGFSENKYCCK	23	MAWFLRLRPCFAEPPAESPTRYNSDNAGSRWSQASLPGKPPKS	142	1669694	1670119
78	CITNVLMLNPLITNNRTLMRK	21	MAYHQITLLLPKCITNVLMLNPLITNNRTLMRKASHVN*	38	927221	927334
79	MCFSDKSCMASSANNPSLLSCR	22	MCFSDKSCMASSANNPSLLSCR	23	2043270	2043201
80	SKMELYPEYRVQVLPPTGK	18	MCGESFHSKALTCFFRSKMELYPEYRVQVLPPTGKLHNHWRQLDFY	343	1795331	1794302
81	MDEKICYSNAVIFYFYFNTKIMAR	24	MDEKICYSNAVIFYFYFNTKIMARRPLVMGNWKLNGSKAFTKALIEDI	283	1506266	1505417
82	EFIMQNP	8	MDELFRTRRELKFEKIMQNPDDVLYAPIEWQDHSYTDILYHKS	302	1291436	1290530
83	PSTFCNVGVTSATSKPKIR	19	MDFILLFAPIFLFAIAAMTRTKIKIGATARNERTKMVPNTPTFSAKLKP	102	1046941	1047246
84	MSSSVILR	7	MDFVATILKMMLMCLRLVLKIDITFQKMSSSVILRKKHKMQSLFVRISNKI	68	1414250	1414046
85	SFCRYFLTLK	10	MDKYLQLFYIMWIFLRHFHPLNSEPHPHKYQDPRFSIPVHQSFRCY	59	1517503	1517326
86	HQMTLNLSDIHNYYDNNQKR	21	MDRLLSETFKVCFQLRRFIFRRHQMTLNLSDIHNYYDNNQKRGSTI	55	1587981	1588145
87	SSKLLMSCHHHAFVQSSTVTDLFSR	25	MDYRLSLHLHGKEYEGLMAKQMPNLAFLSSMDQRYHGLPFGYL	79	476948	477184
88	CTNKSPSTWAGPSVSAMNSSFSPSPGCK	31	MEIDPRSSASKCTNKSPSTWAGPSVSAMNSSFSPSPGCKVI	45	301595	301729
89	IRFTDACDNLNLTFTGIDGGIK	23	MELVHCQIKRDIHGFNKHITTIWIATKIRFTDACDNLNLTFTGIDGGIK	52	208617	208772
90	IHKILQNFCTANHK	14	MFAFWNKIHKILQNFCTANHKPINSCTLTNTDLLCHVGSRYTLVTFF	71	2043490	2043277
91	HTKCHTNGEQNCHVVNNGGTRLDQEGSK	28	MFIFRHTKCHTNGEQNCHVVNNGGTRLDQEGSKLAFSTPTIRVNPV	51	1030690	1030537
92	RVWLILFIMSISLCYFMLSNTVINIR	27	MFLKRRIRGLGVETAAKGLGKNDAPNTIPPKNHLLRRVWLILFIMS	79	308225	307988
93	SHFCNISLTTWRCK	14	MFSNICPRCSRLKLNKCVSHRCDGTIFCIALNIVSIRPGYWRSHFCNI	59	703368	703544
94	MFSQGIKTLNNTKMASFSSK	20	MFSQGIKTLNNTKMASFSSKRVESGKSNGEVPVAPAAAS	39	1722251	1722367
95	KAFALMLLILAINMILK	17	MFTFFLICLAVGAFAGFLAGLFGIGGGLVIVPVLVYLMKYGVPEAM	265	109059	108264
96	YNKFNAIQKQKSR	14	MFVTHWLRYNKFNAIQKQKSRGSSAKQRRSYWLVLMLN	41	1498090	1497967
97	NMSVHQINTMDIK	14	MFYSMDFLVKYRVFLLHKNMSVHQINTMDIKLILPLE	40	664759	664639
98	GQLCHCLGERSGECARR	17	MGICCRRTQTRLLLTRGQLCHCLGERSGECARRLISTQHLKGMAMC	217	1821267	1821917
99	LISTQHLKGMAMQRWSK	17	MGICCRRTQTRLLLTRGQLCHCLGERSGECARRLISTQHLKGMAMC	217	1821267	1821917
100	SLRAINAALSCSLSNCPR	18	MGKDSASACNAVATPLISSGVSPRSLRAINAALSCSLSNCPRTIAVKI	64	670372	670563
101	EAGEKAKIELSSAQQTQDVNLPIYITADATGPK	31	MKGIIIDLGTNSCAVMDGDKPRVIENAEAGDRTPPSIIAYTQDNET	635	866033	867937
102	NCWMCMPNAKLK	13	MHGYVHVKKPRKKFVMMWRNCWMCMPNAKLKALLSIMIVKRFNN	56	1226828	1226660
103	QRLRQONQR	9	MHTKALYHEGRWCLLLMRFLRLQRRLRQONQRVLALVQLLSWLNEY	55	1309736	1309900
104	FAIGLMTQVECLGWMSESK	19	MIANDNDGMIIFILHLKFAIGLMTQVECLGWMSESKVCFIADI	44	1622803	1622671
105	RHAIATIELICDVNELAR	19	MIKKIADLTSGGDAPGMNAAGRVVSALAAGLEVYGIYEGYGLYH	322	95079	96044
106	ENHIINK	7	MIKRENNHIINKILVLEMIKCIILLKKDPWREENCYFVLS	43	1370590	1370718
107	NHLSAISK	8	MILKKNHLSAISKCRVFFIFIKCDS	26	1014771	1014693
108	KFQPNKSGK	9	MILQSKKQPNKSGKQYVRSRVKNKMKTEKGF	33	696643	696741
109	RKCCLSPFIITINVVYLNR	20	MIMLSGKIMRRKCCSPFIITINVVYLNRPLMWN	36	2212744	2212851
110	VLVMVLSIIFSTSCAMSLSPVLK	26	MINSNGRPYFSSSTPSRSNKLVLVMVLSIIFSTSCAMSLSPVLKTF	87	1254672	1254411
111	RAILQRK	8	MIRRAILQRKRNKSRVLRRKKPA	26	418801	418878
112	PPPIITTSKFVIR	14	MITHCLPCVCNAMPYHVKPARPPPIITTSKFVIRPLLCCLFKRFYII	48	1627509	1627652
113	CLCCLWIMHFQMKSCMLLSNVFK	23	MKCLCCLWIMHFQMKSCMLLSNVFKTVWFFPLNLYNFAANRN	43	1925717	1925588
114	VKVATKPLWHK	11	MKFDIFIHRESRVKATKPLWHKSNAFE	29	2223339	2223425
115	EFLISLTTAQNNSSR	15	MKIREFLISLTTAQNNSSRLLL	23	530354	530285
116	PFLNLLNK	8	MKKNVLVIGAGGVSQVVVHKCAQHNDVLGKISIASRKIECRAIADS	413	437115	438353
117	NVGLLSPLPMVQVNYRIILNLCK	24	MKNVGLLSPLPMVQVNYRIILNLCKN	28	1676813	1676896
118	VSMVQVMMNLHLHLR	15	MKQKVSVMQVMMNLHLHLRLKSQLTHS	28	1545379	1545462
119	GGKLTGCWVCKNCK	14	MKRREGKLTGCWVCKNCKNCVCK	24	1135373	1135444
120	LIMLYLSHGLGMVLIK	18	MKRVMWKLIMLYLSHGLGMVLIKIY	27	1325474	1325393
121	IIQLNKYDK	9	MKSVMYFFLPVCASFSLNAANTSIPMLDKSYQESSQQQEPIFTCRT	131	1696586	1696193
122	LISESHERPLSLVESVGV	19	MKYCFKVTKLISESHERPLSLVESVGVRLHRLMCLRCDNFGKNCS	67	235156	235356
123	STASTSAGKRSQAQIAQPLPVHMSK	27	MLICATSSAEDRSTASTSAGKRSQAQIAQPLPVHMSKIRLGSCGI	55	460222	460386
124	RLPPVAHWVCQLMTCK	16	MLKEIIVRRVINLHFYSHSHHAQVHCVRVFLRLMSARCKSRTGRHI	91	1243337	1243609
125	VLYEMDGVSEEIAR	14	MLQPKRTKFRKVHKGRRNGIAAGTEVSFGTFGLKAVGRGLTARQI	137	1594475	1594064
126	RCMIWGLPMLNVK	13	MLRKCKRCMIWGLPMLNVKWRHLRF	27	740735	740815
127	IACLNDIYFAAWNACSK	17	MLSPVLFKQAGKIACLNDIYFAAWNACSKSAKISWILSIPQERRIKPAI	61	869858	869675
128	SLSLNSALSSTDGSNDWCLPIWILSSNLPR	30	MLSTSSDELEWLSISIRFLRGSSSRSSIGDNFFSNWILLSINKFGISI	121	77923	77560
129	QFRSFCNDISRHDICINNR	19	MLTKIIDYFGKQFRSFCNDISRHDICINNRKYAKCHE	37	114906	114795
130	DNGPKKVT	9	MMARHQELAGFTRDNGPKKVTWKQVTITLIHRT	34	477136	477034
131	ILVYYLCIIGHNVSVIYLK	21	MMKILVYYLCIIGHNVSVIYLKPPFFV	31	197179	197086
132	RWISIPTIYCCSIR	16	MMKRWISIPTIYCCSIRYAKILLV	27	14491	14410
133	SYMSGDFSLADTIR	15	MMKSYMSGDFSLADTIRKQV	22	1006747	1006681
134	PAIANSNGPFSCHSVSGVSVNQSTRIPIKR	31	MNAHTILNNSKPAIANSNGPFSCHSVSGVSVNQSTRIPIKRKSTPS	88	1496730	1496993
135	TVMSEMGQAMIGFGSKGTAGEGRAEEATR	30	MNMFEVDYDLGEMDGALIKVVGVGGGGNAVNHMVANMIKNDIG	437	173772	175082
136	INGDKMQCGQIFTCLMIIYHIICTTLHR	28	MNRLKVRIHVQRRFRINGDKMQCGQIFTCLMIIYHIICTTLHRTLR	54	204780	204941
137	CPLFAVKLANTNSLMSPAVCK	22	MPCVVRFRSFIPLIMAFRIVSMLKCPFAVKLANTNSLMSPAVCKCI	79	1995957	1995720
138	PISTINATMPNQMVLSCADSPQSK	26	MPGTQAITAIRISEAINGNTHFDVANNGVSLSILLINKFMPTGGVIK	81	1727311	1727068
139	VWNMPICTFPHNISKWIMALTFRHK	27	MPHHNLSVNSNLSLITSRYLGNALICSSFKNKICFFGLKAKHKPK	105	2089154	2088839
140	HLGSILYRMSGQYIFVIKIAHNVLMLV	28	MPHWKTFTNFKNPSHLVSLKHLGSLILYRMSGQYIFVIKIAHNVL	64	797096	797287
141	ALANAIPAMVDALCIFSRASGSLSFTER	28	MPKKALANAIPAMVDALCIFSRASGSLSFTERSKCSNTSLIACRAKPS	58	1642718	1642544
142	NLKSVMMLK	9	MPKLNLKLIFLRWRNLKSVMMLKSPPAQACS	34	2033703	2033601
143	HLSTQDNLVYVECLSIR	17	MPLAHLRFPTEHIPFLPLHALPQARLNYPLTLVQSPHLSHQTPHK	80	2100283	2100043
144	GSAIASSINNHLSANAWGSCAICSQSKSGDLK	32	MPLKVDVSSSNKLKGSAIASSINNHLSANAWGSCAICSQSKSGDLK	119	1231711	1232067
145	HHVPFQFFDAVSPSSQLDFLIQR	23	MPMTNYISLSSARERRQHVMEFSEKHVVPFQFFDAVSPSSQLDFL	281	1342383	1341540

146	QRQFSAIAGFFSPDDR	16	MPRLFPHTNLVISSSDVFLAPHYAHIVHRRQRQFSAIAGFFSPDDRH	60	2110865	2110685
147	NCVRITRNR	9	MPSSRASTAAGNPNPRLTAIMPFHCEAGSKRSDNLRACIWNMSQV	100	1560776	1560476
148	FSTNSTK	7	MQDAPDDNRITKFSNSTKYSGARGPTSQAPRKCGQITRCFKNQTR	45	137103	136968
149	KGFTGICSWKCTIK	14	MQKLRKGFTGICSWKCTIKLVFI	24	1949901	1949972
150	CRYVGQNVAVIVLMSLVIK	19	MQKNPWKCRYVGQNVAVIVLMSLVIKMHYLVSFKVAFTKNYVKCRL	49	256629	256482
151	KTLLMQSLK	9	MQKRRKTLLMQSLKLAKNNFV	22	1546525	1546590
152	SAQPRLSRFHCTCSGNSSASSLPNISFIR	28	MQSKKKSAQPRLSRFHCTCSGNSSASSLPNISFIRLLKPYWLTSKTK	52	383388	383543
153	CFSTRPPISNCHLPNSTCSIK	21	MRCFSTRPPISNCHLPNSTCSIKKRLC	28	1273204	1273287
154	IFGLFSVKLSLIFSNVDNLCPMLLFNR	28	MRIFGLFSVKLSLIFSNVDNLCPMLLFNRRTSLVNNASRFSF	44	1655705	1655836
155	QSTFARSELSRGTR	14	MRISILKGSHYGKNQKQSTFARSELSRGTRKI	33	2194125	2194026
156	PHWMISLVEEMLVVALQREDQIR	23	MRKLHNAKRIKPHWMISLVEEMLVVALQREDQIRIVREAKEAVQHWI	61	1141251	1141068
157	ERIKLTGELPSPLSPPK	17	MRKVCQVVQNLQCHNKKENNMQELERQASLLDAVNLKKYYPVKKG	347	270567	271607
158	PRSASSNWGEETPK	14	MRLANRSSPKVFNTQAKSCSDTCCSHSLADKPCVVISRISSGSPFIK	92	159005	158729
159	VMKIQDCIVKMASMMPFLCGWFISVFR	27	MRLIRVMKIQDCIVKMASMMPFLCGWFISVFR	33	520318	520416
160	LICPAFDQFWRTISSK	16	MRLYNRLICPAFDQFWRTISSKNNQIYSRLTRFNNSRI	39	59976	59859
161	NKFTRNLSIFITIFTWLIGK	20	MRNKFTRNLSIFITIFTWLIGKNILHNNLPFHSHQFRNIHDFP	45	1000162	1000296
162	MTAPASTSSFTKWTEVPCSRSPASR	25	MRNSCALTRCSMSSIRSSAKIGTFACKMTAPASTSSFTKWTEVPCSI	55	16878	17042
163	NVSPMPSAKSMNPALTFTAPAR	23	MRNVSPMPSAKSMNPALTFTAPARKPPASVMPKCKGCLMAFANK	47	2252441	2252300
164	RHFHNR	6	MRRHFHNR	9	1119543	1119569
165	AALSRLVVIPMAVLLAR	17	MRRHKNGRKSNAFRALSRVLVIPMAVLLARKPYPIKVMVIK	44	422255	422386
166	MNSSPK	6	MRSFLVTILLCNPMVGKMKMNSSPKQKQSPKWMMAIY	39	301748	301631
167	LRKPSSPSTSK	11	MRSRLRKPSSTSKIQLISAPARCSISLSESTKSILNSCANWRPIVI	74	1416123	1416344
168	PVQLKCGIILPQIVARFR	18	MRVINSHFLLSIHRLSWRISPLRHLIDLWQSFLFHQSDDIYIQFHLSRI	114	1561118	1561459
169	TDSFNLPCLRATTACAHFNK	20	MRVSKGAGKFSESWLNCFAAFSFRFCVKAIAACKRAGCKLGFSA	82	1714085	1714330
170	LDVSGSTEEHCANLSISQK	19	MRYAILLIPILLISCFDLPLKANNASQASHDTIAIQSDFYILAQRFOI	262	1152608	1151822
171	VSLNLYLQR	10	MSATCHTDLIPLNLLIRLEDLQLPFHKQHPFPQPKQSLLGKNLYFYLK	70	598262	598052
172	MSGVLRLNLMCCWCFAQR	18	MSGVLRLNLMCCWCFAQRNIMTKILD	27	370605	370524
173	MSKMDYANHPIFDCMPSKISTISHLVITK	29	MSKMDYANHPIFDCMPSKISTISHLVITKVICSRGGTQIRKPIFKSVCF	53	31358	31516
174	FGVSAAGAAVAVAGPAEAAEEK	23	MSLTNEQIIIEAIAASKSVTEIVELIAAMEEKFGVSAAGAAVAVAGPAEA	123	1961263	1960894
175	LMTCKKSGSCGLPCFIFSTK	20	MSNKRWLWYLCNTLGTASCSSGSLLPKSTCKNSSRKLMTCKKSGS	97	125055	125345
176	KAMIMPISTVVKR	14	MSPLVERRKAMIMPISTVVKRSTALVDNQTNPASTQQKSKDPKPR	59	1386806	1386629
177	TIHNAVEVK	9	MSRVAKAPVISAPAGVEVKLDGQLLTVKGKNGELSRTHNAVEVKQDI	178	1591364	1590830
178	NYFVALSLNFLCHMLDK	19	MSSHLNKLTLHGLSDSLISSDTWGNRRNYFVALSLNFLCHMLDKAY	81	1344534	1344776
179	TRMQAKQLYVVANVLMPILCILAFHFK	29	MSVMTCKSKRTRMQAKQLYVVANVLMPILCILAFHFKGGEYATRNI	54	184203	184041
180	AVINIAHSVSCILIRVVK	17	MSVSQKLKNSIYVQNRVQKVQLLSYPLWKAVINIAHSVSCILIRVVKK	70	1180787	1180577
181	NAILRALMALTAIALR	17	MSYEQTTLIANPPCEVSRYLAFISLPVSIYVSMTSLKVTRGLVRRNA	143	35838	36266
182	PRLCSMAISAAIHTCSGLPPRISVK	25	MSYEQTTLIANPPCEVSRYLAFISLPVSIYVSMTSLKVTRGLVRRNA	143	35838	36266
183	VVSLGDVVEVMVLEIDEER	19	MTESFAQLFEESLKELETRQGSIVSGTVVAIQKGFVLVDAGLKSESA	550	945568	943918
184	TLMRMLNVNFNVCIMHK	18	MTKTLMRMLNVNFNVCIMHKSTVRQSRVLVHVKIQ	37	1707126	1707236
185	ISTCNPVNHLNLMVGAGSAGILSAK	26	MTMKAPSKPCIGNCLKKLAYRLKMSKYIYFQNIQYVINYQNVCYVTT	108	109537	109213
186	TVKPSINCAKSSICATALMTVVK	24	MTMRQISANSAPKPGMPLMKTVHGSIIRTAKAPMIWDVFMAYKGV	77	107244	107013
187	DARFSAMASARK	12	MTSATTFECCLSGVKFTTKSALGINSSYVPTLKPFSVARWKDARFSA	55	1478352	1478187
188	KLPIYVIELSSLTVVRSQVNCMNMK	25	MTSKKLPIYVIELSSLTVVRSQVNCMNMKSRSPTYWHSIQIPSRASIN	59	1444620	1444443
189	MTVRVNAIDAEISIPTQYIAK	21	MTVRVNAIDAEISIPTQYIAKLSGLIEGIPGKPAAPKAMALTLNKAMTA	63	2085652	2085840
190	AMALTLNKAMTALEMPAPIMADMK	24	MTVRVNAIDAEISIPTQYIAKLSGLIEGIPGKPAAPKAMALTLNKAMTA	63	2085652	2085840
191	KISASLMTSANVRLPLSSIAYNFLVSSMR	29	MVFTMSWVNVPAAEQPKKISASLMTSANVRLPLSSIAYNFLVSSMR	133	2430	2828
192	MVFVVWKNSPHRLK	14	MVFVVWKNSPHRLK	15	1978431	1978475
193	LTVLKKILAILMQWDLILR	20	MVGRRRLTVLKKILAILMQWDLILRRNYGKCH	33	1579765	1579666
194	CVNVSLNGSCRIFIISVLMCWCVPLLLKR	29	MVKCVNVSLNGSCRIFIISVLMCWCVPLLLKRGLMSLPQIRSLLSVRI	52	1225946	1225790
195	HKMFPVFHVSVCVGVREPLIK	20	MVKIIRHKMFPVFHVSVCVGVREPLIKNMIFFAIKH	36	2089498	2089605
196	PPNQATNNPTATASHIFQFRK	21	MVPTNNPVNNTGCAPINPTPRPPNQATNNPTATASHIFQFRKTAKCI	49	910562	910708
197	VRLIMMWQQTTPSVIK	17	MVSLASVSRVRLIMMWQQTTPSVIKPHYRQPSKPLTVYAIQARTI	62	95428	95613
198	NLMITWRTRNPMVTNLSILLSSAK	24	MVVLNTSIAFGAKCRKNILNLAISTMFVQCELSLNCCKIVIPHLALCIP	102	2107394	2107088
199	LVFLGGK	7	MWALKLVFLGGKNIFMPFIKK	22	1087064	1086998
200	YREHTTCHFENVSLAGTNTPSFR	23	MWRNRAIRKYREHTTCHFENVSLAGTNTPSFRQKWEYFLF	41	1192539	1192661
201	TEFDRNLPFTVLSAPQVNEESVAQTVAKIK	30	MYNTLNKKEDISLVSNNGFLRLPVHFNPVETDAEWVITGVPFDAVS	307	1576535	1575614
202	PNSSVIKPLNMACRGVLLLSMVFLSVPIQK	30	MYTWINLIPQKKKKPNSSVIKPLNMACRGVLLLSMVFLSVPIKITAT	59	2124007	2123830