

1 Training dataset
2 The nonhomologous sulfenylation and non-sulfenylation sites and their modified peptides
3 which had been retrived from the literature (Yang J, Gupta V, Carroll KS, Liebler DC (2014)
4 Site-specific mapping and quantification of protein S-sulphenylation in cells. Nat Commun
5 5: 4776. All the protein sequences had been retrived from NCBI database.
6
7
8 Positive sulfenylation sites
9 Ref ID Position Peptide sequences
10 NP_000009.1 237 SIRTSAVPSPCGKYTYLNGSK
11 NP_000010.1 126 STPCTTINKVCASGMKAIMMA
12 NP_000010.1 196 DVYNKIHMGSCAENTAKKLN
13 NP_000088.3 198 GGISCVLQDGCVFEEKAGVSIS
14 NP_000170.1 615 TKTILKSSLSCSLQEGELIPGS
15 NP_000180.2 794 TKFLSQIESDCLALLQVRAIL
16 NP_000185.1 106 TVDFIRLKSVCNDQSTGDIKV
17 NP_000225.1 895 EQATTSQAQVACLRYKQSQIQN
18 NP_000312.2 853 EKFKQINQMVCNSDRVLRSA
19 NP_000356.1 87 GEISPGMIKDCGATVWVLGHS
20 NP_000373.1 50 DILTAIAADLCKSEFNVYSQE
21 NP_000393.4 43 EQVALSRTQVCGILREELFQG
22 NP_000445.1 112 DSVISLSGDHCIIGRTLTVVHE
23 NP_000678.1 421 EKQAQYLGMSCDGPFKPDHYR
24 NP_000703.2 204 KEDQYMKMTVCLTEKKSPLS
25 NP_000843.1 102 MVNDGVEDLRCKYISLIYTNY
26 NP_000875.2 331 LRVGMGSGSICITQEVACGR
27 NP_000958.1 157 EKDFSSMKKYCQVIRVIAHTQ
28 NP_000958.1 336 VTNDFVMLKGCVVGTKKRVL
29 NP_000963.1 199 RLGRLVHRKTCTTVAFTQVNS
30 NP_000966.2 150 SIADKKRRGTGICAKHRISKE
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32 NP_000980.1 92 GTACGKYRVCTLAIIDPGDS
33 NP_000981.1 70 HYHLKRNQSFCTVNLDKLWT
34 NP_000994.1 61 LANVNIGSLICNVGAGGPAPA
35 NP_000996.2 97 YAEKVATRGLCAIAQAESELY
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37 NP_000996.2 134 RFIMESGAKGCEVVVSGKLRG
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39 NP_001000.2 66 YAAKFRKAQCPIVERLTNSM
40 NP_001001486.1 49 QADLQNLGNKCEVSHRRAFHG
41 NP_001001486.1 839 QTKSVFEIGLCSNRMFCYAVL
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46 NP_001003.1 100 LVRKTTLVKNKIVLIDSTPYR
47 NP_001005386.1 226 ETVRMIKEKLCYVGYNIEQEQ
48 NP_001007.2 130 AKDVIIEEYFKCKXXXXXXXXXX
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51 NP_001008708.1 59 VVTLVEDPAGCVWGVAYRLPV
52 NP_001008895.1 241 FELKFLLEETNCLYAAEQRLM
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74 NP_001036041.1 890 AEFEEAQT SACRLQEELEKLR
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76 NP_001036143.1 20 IVGDGACGKTCLLIVFSKQDF

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87	NP_001073027.1	308	VTQNLPMKEGCTEVSLLRVW
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114	NP_001120676.1	282	QDKGALEGSSCPFRAMAVLR
115	NP_001121089.1	202	LPDGDHDLKRCQYVTEKVLAA
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157	NP_001158286.1	733	LQPERGSPKKCEAEAEPPAA
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160	NP_001164120.1	306	AWNNPSPRVECVLAEELKGVTC
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213	NP_001273726.1	195	RDLDVVRRIICSAGLSLLAAE
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218	NP_001279.2	24	AGSDGAKIGNCPFSQRLFMVL
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244	NP_001395.1	266	APAPEEEMDECEQALAAEPKA
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250	NP_001435.1	127	VVECVMNVTCTRIYEKVEXX
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252	NP_001447.2	2535	VFVDSLTKATCAPQHGAAPGG
253	NP_001460.1	398	KCLEKEVAALCRYTPRRNIPP
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256	NP_001524.2	581	NGPYPYTLKLCFSTAQHASXX
257	NP_001527.3	119	AGARKVIGIECSSISDYAVKI
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260	NP_001651.1	62	NVETVEYKNICFTVVDVGGQD
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262	NP_001686.1	15	WLISAPGEKTCQQTWEKLGAA
263	NP_001739.2	82	GIEWKRPTIEICADPQFIIGGA
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274	NP_002061.1	112	DDARQLFALSCTAEEQGVLPD
275	NP_002083.3	476	HRYIELFLNSCPKGGKXXXXXX
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277	NP_002102.4	666	TEPGDQENKPCRIGDYGST
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281	NP_002147.2	237	YFINTSKGQKCEFQDAYVLLS
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283	NP_002215.2	2668	QRLGFVDVQNCISRXXXXXXX
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287	NP_002262.3	933	YFLRPMLQYVCDNSPEVRQAA
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291	NP_002289.2	460	LGGMKKLENCNYAVELGKNQ
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293	NP_002403.2	181	PILIPCHRVCSSGAVGNYSG
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304	NP_002464.1	988	EEQIILEDQNKLAKEKKLLE

305	NP_002464.1	1379	MKKKMEDSVGCLETAEEVKKR
306	NP_002464.1	1437	VLDLHQRSACNLEKKQKKFD
307	NP_002473.2	254	SVSGTDVQEECREKGGQEKQG
308	NP_002473.2	708	KPTDGASSNCVTDISHLVRK
309	NP_002480.1	44	LRLALFNPDVCWDRNNPEPWN
310	NP_002523.2	713	TIILSAYQRKCIQSILKEEGE
311	NP_002645.3	358	VANAVLDGADCIMLSGETAKG
312	NP_002645.3	423	AVGAVEASFKCCSGAIVLTK
313	NP_002645.3	474	HLYRGIFPVLCKDPQEAWE
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315	NP_002694.3	100	GHTRYATTGKCELENCQPFVV
316	NP_002708.1	334	QVHEYLRSKLCSLYENDCIFD
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320	NP_002755.1	265	GPASIRINNACFEAVVNTI
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325	NP_002797.3	184	QRVGIIPPKGCLLYGPPGTGK
326	NP_002799.3	459	GIVNSGVRNECDPALALLSDY
327	NP_002804.2	59	GIGMNEPLVDCEGYPRSDVDL
328	NP_002806.2	289	YAGRQTEALKCVAQASKNRS
329	NP_002807.1	193	VEFILEQMRLCLAVKDYIRTQ
330	NP_002807.1	255	KHYRAIYDTPCIQAESKQWQQ
331	NP_002818.1	344	VKEETQEDKDCPIKEEKGSPL
332	NP_002823.3	167	VRSLGAVEPICSVNTPREVTL
333	NP_002848.1	229	QEQHSVMCKICEQFEAETPTD
334	NP_002850.2	108	SNPQDSVSGSPCSRVGEEHVY
335	NP_002853.2	326	KFGCRDPVRTCFETFPDKVAI
336	NP_002875.1	139	EQGQNLARQWCNCAFLESSAK
337	NP_002878.2	32	LTAEIDRLKNCGCLGASPENLE
338	NP_002878.2	369	DGRKIVFVPGCSIPLTIVKSD
339	NP_002930.2	95	CKIQKLSLQNCCLTGAGCGVL
340	NP_002930.2	409	SLRELDLSNNCLGDAGILQLV
341	NP_002931.2	38	SCPVVRMGKLCIEVTPQSKIA
342	NP_002931.2	88	NLEKETTHRYCANAFKLHRLP
343	NP_002941.1	477	PAAEARMKVACITEQVLTLVN
344	NP_002941.1	545	SRLKTEGSDLCDRVSEMQLD
345	NP_002943.2	229	IDDCYTSARGCTATLGNFAKA
346	NP_002964.3	892	SQGVQTS SPACKQEKDDKEEK
347	NP_003001.1	379	MYEERAVEVACYVCKILDQMP
348	NP_003008.1	6	XXXXMHRDSCPLDCKVYVGN
349	NP_003012.1	153	GAVQDCERAICIDPAYSKAYG
350	NP_003016.1	277	EPEQSNGGFPCTTAPKIAASS
351	NP_003091.2	332	KLHVSVEALVCHRKELSANTA
352	NP_003124.1	48	LCVKVTDLVLVCLVYKTDQAQD
353	NP_003128.3	188	KSNYQGLPLPCVKKIIQQVLQ
354	NP_003128.3	455	LQESIRAEIPCEDEQEHEHNG
355	NP_003130.2	253	KAPRVWELGGCANKEVLDYST
356	NP_003267.1	518	QVDRQLPSLACKYPVSSREAT
357	NP_003283.2	224	EKGNEILELKNLENKKEEVS
358	NP_003283.2	1127	TQKAESQLLECKASWEERERM
359	NP_003293.2	54	VNFCPLPSEQCYQAPGGPEDR
360	NP_003325.2	444	EDKEVLTEDKCLQRQNRDYGQ
361	NP_003325.2	1039	RHVRALVLELCCNDESGEDVE
362	NP_003355.1	80	RCVGAEGLDPCGRDYPNICA
363	NP_003355.1	162	VVITEQAVDTCFKAEFQIVL
364	NP_003356.2	380	FVLQGQWMRLCTSATESEVAR
365	NP_003461.2	315	DNVENKMKGTCEVTIPKLF
366	NP_003463.1	89	TIAQKGQKLCIEIERIHFFLS
367	NP_003482.1	194	GNSPPSSGEACREEKGLAAED
368	NP_003557.2	1134	SKLAEIEEIKRQEKEITKLN
369	NP_003567.2	394	FAELKEKSQACGGNLGSI EEL
370	NP_003581.1	636	ELVRALQSLACGKPTQRVLTK
371	NP_003592.3	165	LTESKATNVCTRFEDSPSYV
372	NP_003631.2	341	YLKQSLSFSTCGKSKIVSLMW
373	NP_003633.1	27	AVEKKLAEYKCNNTNTAIELKL
374	NP_003633.1	101	YASKVDENFDCVEADDVEGKI
375	NP_003633.1	299	VLVKLCQDLPCFSREKLMQGF
376	NP_003650.1	226	DDVVKIVNLACKYNLCIIPIG
377	NP_003674.1	274	RSEKPPAGSICRAEPEAGEEQ
378	NP_003706.2	678	ELRQQVSTLKCQNEQLQTAVT
379	NP_003711.1	157	YQWLEKVFVGCSPRKNMQITIL
380	NP_003741.1	78	KEGLYQYKNICQOVNIKSLD

381	NP_003741.1	160	VKFLWESYRQCLDLLRNNSRV
382	NP_003741.1	478	ERAIVDAARHCDLQVRIDHTS
383	NP_003745.1	256	RIGVDLIMKTCFSPNRVIGLS
384	NP_003746.2	25	QVEEEGEDDKCVTSELLKGIP
385	NP_003746.2	139	TFITSKEDLNCQEEEDPMNKL
386	NP_003810.1	132	FGNILSCKVVCDENGSKGYAF
387	NP_003816.2	112	TWGDGGENSPCNVVSQPGPV
388	NP_003855.1	184	NKAQLVEIVGCHFRSIPVNEK
389	NP_003861.1	1534	VDYKSYIKTCLDNLASKGKV
390	NP_003866.1	456	RVICAEOPYICKDFPETNNIL
391	NP_003866.1	489	PHTLLQRVKACTIONTEEDQEKLM
392	NP_003866.1	523	PIKTVGVQGDRCRSYSYVCGIS
393	NP_003891.1	26	AAREIRRFSCCSPEPEAEAE
394	NP_003891.1	113	KECRDRHRPPCAQEAAPNMVH
395	NP_003904.3	962	TKDLLADLIGQRLPEDQRKK
396	NP_003912.1	119	IKLEHLKGLKCSSCEPFDPGA
397	NP_003925.1	460	QNTFPPRSSGCFPNMAAKVNG
398	NP_003943.2	348	AWRVDPPFRPCLQSEEDVSQF
399	NP_003963.1	1542	YEDFAKSRACDVEDTVSSAT
400	NP_003964.3	42	DQNRALVDGPCTQVRRQAMPF
401	NP_004026.2	449	YDQVHSGKLVCGMVSYLNDLP
402	NP_004042.1	221	TKFGVEAFSDCLRYEMYPLGV
403	NP_004068.2	211	DSMDLIAKLPCVAAKIYRNL
404	NP_004073.2	636	AQEKFELENSCERPLRGAA
405	NP_004085.1	98	RRVSPPEAIKCEDKFTKSKTV
406	NP_004085.1	218	VKEALRAGLNCSTENMPIKIN
407	NP_004086.1	62	IYDRKFLMECRNSPVTKTPP
408	NP_004095.4	212	RLGMLSPFGTCKAFDTAGNGY
409	NP_004095.4	642	QRCPPGVVPACHNSKDTVTIS
410	NP_004095.4	1118	EQQVPILEKFCFTPHTEEGCL
411	NP_004095.4	1141	RAALQEELQLCKGLVQALQTK
412	NP_004095.4	1186	QELPRLLSAACRLQLNGLQL
413	NP_004095.4	1448	SRPVWLKAINCATSGVVGVLVN
414	NP_004095.4	1548	RGDLSSIRWVCSSLRHAQPTC
415	NP_004095.4	1992	NQTPEFFQDVCKPKYSGTLNL
416	NP_004095.4	2202	SKADEASELACPTPKEDGLAQ
417	NP_004125.3	317	RVREAAEKAKCELSSSVQTDI
418	NP_004125.3	608	EFKDQLPADECNKLEEKISKM
419	NP_004138.1	195	DKGGINLTATCPQSELDAETV
420	NP_004152.1	126	NVNKLLVGNKCDLTTKKVVYD
421	NP_004183.2	333	DIASKVDASACGMERLLDICA
422	NP_004184.1	1173	IVLENRDRVGCWQTVRDHLY
423	NP_004214.1	98	PIISSENWKPCTKTCQVLEAL
424	NP_004228.1	14	AVGDLKQALPCVAESPTVHVE
425	NP_004238.3	144	LCGHLHHGKTCFVDCLIEQTH
426	NP_004251.3	1141	RLQDWEDQVRCDIRQFLSLRP
427	NP_004272.2	151	MPETTQDPKQCGQVAAAAAAQ
428	NP_004272.2	179	ERSQSPAASDCSSSSSASLP
429	NP_004283.2	733	EARSRGEEQGCQGDGAGVKA
430	NP_004359.1	164	FDDATMKAGQCIVIGLQMGTNK
431	NP_004386.2	96	VGEDVPDARKCACASHVAKVA
432	NP_004388.2	324	AYVTERQKVHCLNTLFSRLQI
433	NP_004392.1	38	SREQHGVAASCLEDLRSKACD
434	NP_004392.1	47	SCLEDLRSKACDILAIKSLT
435	NP_004393.1	194	EEFLRVLGSMCQRLRSMQYNG
436	NP_004437.2	92	LEFSATKLSSCDSFTSTINEL
437	NP_004437.2	744	ERPTPSLNNNCTTSEDSLVLY
438	NP_004437.2	856	PKAKINEAVECLLSLKAQYKE
439	NP_004437.2	1377	LEVGPDMKSCQFVAVRRDTG
440	NP_004449.1	180	KLKTALLDISCVKHIYVDNK
441	NP_004477.3	794	PAPGTGGDSVCGETHRALQGA
442	NP_004485.1	12	SRSNRQKEYKCGDLVFAKMG
443	NP_004485.1	108	SGYQSSQKKSCEPEPEPEPEA
444	NP_004499.2	229	NPDNEIKSYCYVSKEELKEL
445	NP_004512.1	330	QRAKTIKNTVCVNVELTAEQW
446	NP_004514.2	911	TIKIGLTKLNCFLEQDLKLDI
447	NP_004573.2	40	YGSKDDYEYCMSEYLMSGI
448	NP_004588.1	63	LGRVKAFDRHCNMVLENVKEM
449	NP_004695.1	296	VAALDALSRECCVTAGGRDGT
450	NP_004721.1	302	DEISQDTGKYCFGVEDTLKAL
451	NP_004730.2	209	AVGTFARALDCSSSIRQPSLH
452	NP_004783.2	310	KNRERERERECNPPNSQPASY
453	NP_004810.2	578	RILRAEKAVACSGAAQVRIKI
454	NP_004823.1	192	ERLEAMKLNCEVDHTPKLKLW
455	NP_004841.2	607	SNNRDLQDKNCLLETAKLLE
456	NP_004841.2	649	EIINDLQGRICGLEEDLKNGK

457	NP_004879.1	69	EAAALGSRGSCSTEVEKETQE
458	NP_004896.1	47	FSHPRDFTPVCTTELGRAAKL
459	NP_004896.1	91	AWSKDINAYNCEEPTEKLPFP
460	NP_004921.1	206	QMEKDETVSDCSPHIANIGRL
461	NP_004955.2	273	SDSLSGDRLGCFNLTIKGHAK
462	NP_004955.2	408	EDDPDKRISICSSDKRIACEE
463	NP_004997.4	554	VLFLLGADGGCITRQDLPKDC
464	NP_005040.2	24	VYRRGNLNFCTCDGNSVISPVG
465	NP_005042.1	657	LQHVVKGPSGCVESLEVTERR
466	NP_005052.1	253	KTHKGLRKKVACIGAWHPARVG
467	NP_005076.3	728	EELKARTSKACFQVGTSEEMK
468	NP_005092.1	78	GSTVLLVVDKCDEPLSILVRN
469	NP_005115.2	1065	TKSASVAPFTCKTSEAKKEEM
470	NP_005115.2	1129	GKKADNEEPKCCQPVFSGNSE
471	NP_005122.2	49	QVPGSENEKKCTLDQAFRGIL
472	NP_005137.1	674	PNKSLPSAVYCIEDKMAIDDK
473	NP_005144.2	94	NPQAPEFILGCTASKITPDGI
474	NP_005144.2	254	GGPGADFGQSCFPAEAGRDTL
475	NP_005145.3	809	PHLADYFNRCYQDDINRSNL
476	NP_005147.3	68	SRVLHLRKKIPCDVTEAEIISL
477	NP_005162.1	240	CRRKKKEYVKLENRVAVLEN
478	NP_005179.2	508	PRLDLLPQRVCVPSSASALGT
479	NP_005185.2	248	PADAKAPPTACYAGAAPAPSQ
480	NP_005198.1	249	FAKAIQKRVPFCAYDKTALALE
481	NP_005210.3	1227	GPRQANRKAGCAVTSLLASEL
482	NP_005264.2	204	PDGRTFVSGACDASIKLWDVR
483	NP_005266.2	294	ALGPEQLLRACEAITVGKVDL
484	NP_005324.3	46	PVNTPEPSGPTCEKKTYSVPAH
485	NP_005324.3	66	HQERAYEYVECPIRGTAENK
486	NP_005372.2	543	FEDAKEALNSCNKREIEGRAI
487	NP_005429.1	97	GPPPGVRRRRCPEQISPEEEER
488	NP_005498.1	139	TGIKHELQANCYEEVKDRCTL
489	NP_005498.1	147	ANCYEEVKDRCTLAEKLGSSA
490	NP_005522.2	581	KKIIAIAANYVCRNGFLEVYPF
491	NP_005522.2	623	ASVTPKINQLCSQTKGSFVNG
492	NP_005522.2	681	CEEGDKLKLTCFELAPKSGNT
493	NP_005527.1	24	TLARQAGEVVCEAIKNEMNVM
494	NP_005653.3	229	FGIAAKYMLDCRTSLSAKVNN
495	NP_005660.4	18	RFDRFLHEKNCMTDLLAKLEA
496	NP_005678.3	195	PLNKTKEYTACELNMNIYKTDN
497	NP_005683.2	186	AERLAHEDAECLEKLMELYERL
498	NP_005685.1	23	ESQEKKPLKPCACPETKKAR
499	NP_005769.1	766	WREGSGLGRKCCQGITAPIEAQ
500	NP_005778.1	21	SGSAAQAEGLCKQWLQRAWQE
501	NP_005817.1	226	KEAAQEAVKLDCSYEIRPGKH
502	NP_005817.1	240	EIRPGKHLGVCISVANRRLFV
503	NP_005852.2	199	DDSHVRAQQACIEAKHDKYMA
504	NP_005862.1	214	SVTGKVGVTGCGIADKPMTOY
505	NP_005868.1	244	ENPREVLQVVCYRVEWAKFOE
506	NP_005886.2	455	LSTKLQAQVECSHSSQQRQDS
507	NP_005902.1	104	DSSKGFQDYKTCNVLVALEQQS
508	NP_005906.2	302	LSYRLVFLACCVAPTNPFRFGG
509	NP_005906.2	721	ASLRLGFSEYCRISNLIVLHL
510	NP_005909.2	93	PEQLPDCLKGCDDVVIPAGVP
511	NP_005959.2	114	LMDAEGKSRGCAVVEFKMEES
512	NP_005959.2	653	GHAPGVARKACQIFVRNLPFD
513	NP_005969.1	21	VLVTTFHKYSCQEGDKFKLSK
514	NP_005989.3	40	AKTIADIIRTCLGPKSMMKML
515	NP_005989.3	213	KIPGGIIEDSCVLRGVMINKD
516	NP_005991.1	315	CDPRHGKYMACLLEYRGDVPV
517	NP_005991.1	316	DPRHGKYMACLLEYRGDVPVK
518	NP_005991.1	347	TKRSIQFVWDCPTGFKVGINY
519	NP_006079.1	12	REIVHLQAGQCGNQIGAKFWE
520	NP_006133.1	38	GAVEKGEELSCEERNLLSVAY
521	NP_006136.1	267	PARISLREALCGCTVNVPTLD
522	NP_006182.2	296	EKKARMGVVECAKHELLQPFN
523	NP_006187.2	54	GARINISEGNCPERIITLTGP
524	NP_006187.2	109	TLRLVVPATQCGSLIGKGGCK
525	NP_006187.2	158	IAGVPQSVTECVKQICLVMLE
526	NP_006187.2	194	QPMPASSPVICAGGQDRCSDA
527	NP_006209.2	242	MLLSSEQLKLCVLEYQGYIIL
528	NP_006238.1	11	MAMAEGERTECAEPPRDEPPA
529	NP_006238.1	77	NRSLAYLRTECYGYALGDATR
530	NP_006254.1	101	KGEDEDKGPPCGPVNCNEKIV
531	NP_006280.3	1939	ALVTKAGALQCSPSDAYTKKE
532	NP_006286.1	41	PGWGGAHPRICLQPPPTSRTP

533	NP_006294.2	23	GAPLRVELPTCMYRLPNVHGR
534	NP_006316.1	112	PNWHRDLVRVCENIPIVLCGN
535	NP_006316.1	120	RVCENIPIVLCGNKVDIKDRK
536	NP_006377.2	270	VQQVADDYGKCSRLKSTCIYG
537	NP_006377.2	584	NNPNLMYQDECDRRLRGVKDG
538	NP_006378.3	69	KLALQQQLICKQQTPELEPA
539	NP_006383.2	142	LVKGLTDL SACKAQLGLGHSY
540	NP_006387.1	152	AVPPNTDVMACTQTALLQKLT
541	NP_006400.2	279	PMLFNYDDRGCLTFVSKLDIP
542	NP_006421.2	252	EKAKIGLIQFCLSAPKTDMDN
543	NP_006421.2	295	NLVKQIKKTGCNVLLIQKSIL
544	NP_006421.2	379	GSGKLLKITGCASPGKTVTIV
545	NP_006422.1	395	EAERSLHDALCVLAQTVKDSR
546	NP_006433.2	54	LFLESLKKACQVTQSRNAKT
547	NP_006435.2	326	AFDLKKKNLACEESKRKELEK
548	NP_006451.1	79	SQPPPLQTQACPESSCLREGE
549	NP_006452.3	1003	EAIRTLQRKICELQARLQAQE
550	NP_006452.3	1035	ADIEKLNQALCLRYKNEKELQ
551	NP_006460.2	143	SCISYRNFASCMGDSRLLNKV
552	NP_006461.3	178	ARRDKEAELQCTQLDLERKLK
553	NP_006535.1	194	KIASKYHDLECQLIQEFTSAQ
554	NP_006556.1	472	YIEQGKKCRYCDAVFHERYAL
555	NP_006576.2	430	AKQITSYGETCPGLEQYAIKK
556	NP_006588.1	603	EHQQKELEKVCNPIITKLYQS
557	NP_006591.1	188	LSELDLAVPFCVNFRLKGKDM
558	NP_006614.2	369	QGTSLKNAGNCLSPAVIVGLL
559	NP_006635.2	516	NEMSSEADMECLNQRPPENPD
560	NP_006635.2	658	KLCGPYEKFIQEQDHQNFRL
561	NP_006640.2	522	EELEELGKEECFQNKELPRPV
562	NP_006658.1	129	RDASRGLATFCLDKKALKDEY
563	NP_006699.2	61	RVLGMTLIQKCDFFIMKFSLY
564	NP_006744.2	189	EVVEATPEGACTEPREPPGLI
565	NP_006747.1	271	FTCGKCKKKNCTYTQVQTRSA
566	NP_006752.1	98	MVETELKLI CCDILDLVLDKHL
567	NP_006764.3	329	TPGFMYKNLQCLVIDEADRIL
568	NP_006776.1	71	AGSRGRLRLSCLDLEQC SLKV
569	NP_006799.1	39	STVRQRKNASCGRSAGRTTS
570	NP_006810.1	461	YQKALDLDSCKEAAADGYQRC
571	NP_006816.2	100	AAAASSSASCSRR LGRALNF
572	NP_006817.1	134	DYFRYLAEVACGDDRKQ TIDN
573	NP_006819.2	324	LGENAKPNYGCQVTIQSEQEK
574	NP_006819.2	1315	LQPLPITALGCKAYEALYNFS
575	NP_006827.1	648	VPPRVLQEALCVISGVPGLKG
576	NP_006861.1	23	RIFYDMKVRKCKSTPEEIKKRK
577	NP_006861.1	46	VIFCLSADKKCIIVEEGKEIL
578	NP_008839.2	157	KEIGAVKYLECSALTQRGLKT
579	NP_008839.2	178	VFDEAIRAVLCPPPVKRKRK
580	NP_008933.2	88	DDCEFVRVPQCPSGRVYVLKF
581	NP_008972.2	138	FALINKLDIQCDLKTLSDDIK
582	NP_009045.2	431	QTVLDKVAEQCEPAESQPEAL
583	NP_009129.1	261	DYSKKPTPKCAADV KAPLEV
584	NP_009215.1	141	FAGYQKHLSSCAAPAPL TSAE
585	NP_015559.2	160	RSPSEAADEVCALEEKEPQKN
586	NP_031372.2	417	VEKIALNLEGCALSQGS LRTG
587	NP_031372.2	443	GQDPGEAVQPCRQPLGARVAD
588	NP_031381.2	366	YVRRVFIMDSCDEL IPEYLN
589	NP_031381.2	412	KVIRKNIVKKCLEL FSELAED
590	NP_031381.2	521	VYMTEPIDEYCVQQLKEFDGK
591	NP_031381.2	564	EESKAKFENLCKLMKE ILDKK
592	NP_031381.2	589	TISNRLVSSPCCIVTSTY GWT
593	NP_031381.2	590	ISNRLVSSPCCIVTSTY GWT
594	NP_031401.1	50	GLRYRNPV SQCMRGVRLVEGI
595	NP_036192.2	505	NTKHPDFADACGLMNNNIEEQ
596	NP_036220.1	32	LAQLVAQRAACCLAGARARFA
597	NP_036222.3	2321	SKGTLVEEINCKGTSLENLIM
598	NP_036226.1	100	FGVPGAFTPGCSKTHLPGFVE
599	NP_036232.2	154	LTLAGRIVVKCPTSGRLEQQ
600	NP_036232.2	337	ELVLRRI SASCQHPTAFEEAI
601	NP_036243.1	301	FIDKNGETELCMEGRGIPAPE
602	NP_036256.2	86	EVKTTEKKELCELKPKFQEH
603	NP_036336.2	116	RTSVPAPLNSCLLKVGSKTEV
604	NP_036347.1	896	RILEFYSKLGC FEIAKMEGFP
605	NP_036360.3	169	DGPGPNQRFCINSVALKFKP
606	NP_036370.2	502	RLGGEYAKLCCNPVKLSEITE
607	NP_036370.2	574	DDL DVSESKGCMEEKPQEVQT
608	NP_036412.1	295	QLAKEIRPQDCPISRVDTFPQ

609	NP_036442.3	977	DEELEKMREVCEQNQQLLREN
610	NP_036463.1	74	GTQMAVFGMGCFFWGAERKFWV
611	NP_036525.1	270	SSNPNNVLKFCDNSSAIQGKE
612	NP_036525.1	606	RRIVLVDDRECPVRRNGQGDA
613	NP_036552.1	476	PENAEFLTALCELRLSIXXXX
614	NP_036565.2	1059	YVSAREWMRICFELLELLKAH
615	NP_036569.1	66	EQIDNLATELCRINEDQKVAL
616	NP_036602.1	511	PVLGYLMKGLCEKPLASAAK
617	NP_036611.2	112	SLLDNYLIKNCSETQYESKVF
618	NP_037366.1	190	SADESGQIFICSQEESIKPKN
619	NP_037368.1	354	GKETTNI FSNCGCVRAEGDIS
620	NP_037377.1	359	VQSATHFKKVCGPSRTNPSMM
621	NP_037417.1	336	VINTLRSKKVCNVAPIAGETK
622	NP_037453.1	200	AQCVGDEFNLNCKLATRAKDFL
623	NP_037458.3	25	VQFEKANPVNCVFFDEANKQV
624	NP_037506.2	512	AVQADGQVKECYQSHRDTIVL
625	NP_054733.2	1580	RLTAIDILTTCAADIQRQRFL
626	NP_054828.2	1261	ELEDSRKT TACTELRDKIACN
627	NP_054862.1	272	RKGRMMDVKKCGIQDTNSKKQ
628	NP_054884.1	87	SSLQVKA AETCQEPKEFRLPK
629	NP_055040.2	294	VPAFQNLMKDCEAEVRAAASH
630	NP_055040.2	390	VRLNIISNLDCVNEVIGIRQL
631	NP_055045.2	525	ELITQVRSEKCSLQAAA ILDA
632	NP_055045.2	562	KPLVERFETFCLDPSLVTKQA
633	NP_055093.2	376	LNAD EAVARGCALQCAILSPA
634	NP_055099.1	98	LLTTKEAPDGC PDHVLRALGV
635	NP_055134.2	346	EAAAAEQGGGCDQVDS SPVPR
636	NP_055144.3	838	PTAPDI TRET CSTLAESPRNG
637	NP_055144.3	976	HSQEELLQRLCTQLEGLQSTV
638	NP_055192.1	394	CDRLELASLQCLNETLT SCTK
639	NP_055205.2	440	ETVPAF SERTCATVTIGGINI
640	NP_055227.1	154	KVKTDTVLILCRKKVENTRWD
641	NP_055227.1	173	WDYLTQVEKECKEKEKPSYDT
642	NP_055230.2	262	HEAVVDLSGFCKASF LPLEF
643	NP_055318.2	313	LHTKVTKTNCESSEQIKRLL
644	NP_055318.2	2594	EQEALEDGVACADEKAESDGE
645	NP_055422.1	186	HATSSQEP SGCSDQRPAEDLN
646	NP_055427.2	1088	ESALNND SKTCNTNPHLNALS
647	NP_055427.2	1103	HLNALSTDSACRREAALEAAV
648	NP_055464.1	361	EDGRKFDFDACNEVPPAPKES
649	NP_055484.3	422	DYLWLKLNQVCFDDDG TSSPQ
650	NP_055567.2	17	QGGRS GSGGCSGAGGASNCG
651	NP_055567.2	26	GCSGAGGASNCGTGSGRSGLL
652	NP_055568.3	556	GSKAGL SPANCQSDRVNLEKS
653	NP_055571.2	1113	FQPASAPAEDC ISSSTE PPKPD
654	NP_055592.2	702	RSEGAIQSLRCDAAFI IGSGR
655	NP_055640.2	1900	KAVEWESQRLCQPSSQEP AKR
656	NP_055680.3	286	GEIVREIGQKCPQELSRDP SG
657	NP_055699.2	417	LDKGAVKTKNCF FEI IKPFDK
658	NP_055746.3	326	ALHALR PRLSCFHQLLEPPK
659	NP_055746.3	455	TSWEENDRVQCAGGPRKGYMG
660	NP_055746.3	795	GSKVTEPSAPCQALVSI GDLQ
661	NP_055768.3	213	ANPELIDRLACLSEEGNEIES
662	NP_055768.3	799	RLLAVAIGADCTYPELTDKHK
663	NP_055792.1	1083	KWPQSNPKFLCADYAEQDEL D
664	NP_055844.2	358	QCVEPIKSAVCIADPLPTPSQ
665	NP_055844.2	481	CKKPD SVSLHCRQEAI FELLG
666	NP_055844.2	530	KSKALPNPEK CQDNEKVRQLL
667	NP_055844.2	777	REAEVMDAGCQESAGPERIT
668	NP_055870.2	260	KKGDILLDENCCVESLPDKDG
669	NP_055871.1	286	GLSDERGRDDCGTFEDTG PLL
670	NP_055871.1	386	LEKEKGSRVFCVEEEDSESSL
671	NP_055871.1	583	KKAGPGSLELCGLPSQKTASL
672	NP_055871.1	628	QPQALGSSGTCSSLLKQKLRA
673	NP_055899.2	49	KWEAREKEHYCLADL ASLMDK
674	NP_055929.1	286	FSNDR LKDGLCLSESE TVNKE
675	NP_055970.1	633	RLPSALTATAACKSVQVNGAAT
676	NP_055994.2	288	HPAAI STAKFCIQEIEKSGGS
677	NP_055994.2	662	SERPDLRVTVCQALRTLITKG
678	NP_056016.1	108	TEEQVQASTPCPRTEMASARI
679	NP_056044.3	753	LKDAAAFLLSCQIPGLVKDCM
680	NP_056044.3	1196	KTKESEY LKCLTQQAV ALQR
681	NP_056070.1	1360	EDKPLFGPLPCRLLDDCLRSLT
682	NP_056091.1	171	NPKRRKITSNCTIGLRGLINL
683	NP_056130.2	787	EGTPTVGSYGCTPQSLPKFQH
684	NP_056130.2	977	GGGGGEGRKRCPSSSRPAA

685	NP_056280.2	793	EEQAREPELPCGLAPAVSREP
686	NP_056280.2	806	APAVSREPVICTPVSSGFEEKS
687	NP_056315.1	244	TTVKEAQNLCQAASTAQESCP
688	NP_056315.1	253	QCAASTAQESCPPKPPRAHEL
689	NP_056315.1	413	KIEKDRTVMPCGTVVTVTAV
690	NP_056315.1	463	EKDISVQAIACRSAPVSKTLS
691	NP_056324.2	162	GFKEGQTIKLCIGNITNKKGG
692	NP_056375.2	375	LRMRKNVKEGCTVSPETISLN
693	NP_056375.2	801	TKNELEKMLKCNEEHPAYLAS
694	NP_056449.1	371	KAVQFGTGELCDAISAVEEKV
695	NP_056450.2	741	QEERLQELESCSGLGSTSDDT
696	NP_056450.2	789	PNKIEDLRSECSSDFGGKDSV
697	NP_056473.2	585	GKVQENSAYICSRQRVSFGV
698	NP_056485.2	532	NVARQNNSDCGAFVLQYCKH
699	NP_056656.2	392	ETKRNAEFLTCNIPTSNASNN
700	NP_056656.2	622	GKSPVTTLLECMHKLGNSCEF
701	NP_056992.4	412	EKPKDAAGLECKPRPLHKTCS
702	NP_056992.4	490	WNLQNIIRLRECELSPGVNRDL
703	NP_057018.1	439	DPSGDSTLPTCSKKRRIEQVD
704	NP_057103.2	190	SSFQQQKLRVCEVCSAYLGLH
705	NP_057107.3	202	AIEDQLKEKDCALTVVALRSQ
706	NP_057122.2	119	RDIATIVADKCVNPETKRPYT
707	NP_057123.1	19	LDYHNPAGFNCKDETEFRNFI
708	NP_057417.3	872	EQSVTPQRRSCFESSDPPELK
709	NP_057417.3	1029	EKSKDSLVSQCPGSLSLCAGV
710	NP_057417.3	1036	VQSCPGLSLCAGVKSTPPG
711	NP_057417.3	2130	PSMSPTPLDRCSRPGMLEPLG
712	NP_057494.3	20	PKAPPSLTDICIGTVDSRAES
713	NP_057542.2	51	AVRHVLALTGCGPGRALLAGQ
714	NP_057542.2	199	ARAFLLDPDRCVVQRLPLTQ
715	NP_057604.1	145	QKVKPKNAEDCLYELPENIRV
716	NP_057688.2	1451	QDVDLVNCRNCAIISDVKVRD
717	NP_057731.1	29	LDVWYLVRLPCAVALRALLQP
718	NP_060062.1	152	RLAHECLSQCSDSAKHSPTLV
719	NP_060102.1	516	RCKSVYLGTCGKSKENAKAV
720	NP_060117.3	577	KQQLPQTTPPSCLKTEIMSPLY
721	NP_060197.4	529	SGFLPASQACAKLYSYSLOG
722	NP_060206.2	31	QYVLAKRARRCDAGGPPQLEP
723	NP_060221.2	164	PGPVKASIQECILPDSPLYHN
724	NP_060225.4	502	ENNGSKKDGVCPPPSKMKML
725	NP_060282.1	112	LTRAILRERICSEEEERAKAKH
726	NP_060289.2	123	TEELKTLMECVSNTAKKKYL
727	NP_060308.1	18	PDGPEAQAEACSGERTYQELL
728	NP_060439.2	749	KALRPGDPGFCARARVPMPNS
729	NP_060531.2	113	SRKTAGQTGMCGGVRGVGTGG
730	NP_060597.4	640	RTCDLEEFQTCVLRHCKHAFG
731	NP_060599.1	156	VKKLPPEEAECYFHSRPKSSQ
732	NP_060671.3	36	LRELSFSGIPCEGGLRCLCWK
733	NP_060671.3	145	SFFQRATDYPCLLILDPQNEF
734	NP_060671.3	387	LLQDYPIITDVCQILQAKELQ
735	NP_060697.4	347	EKYSRKPNVGCQQDSEELLKL
736	NP_060716.2	150	RFPDLAAEKECRDREERNEKK
737	NP_060791.3	52	EERDRIPGPVCKGKWKNKERI
738	NP_060830.2	101	ENRNLVSPAYCTQESREEIPG
739	NP_060898.2	370	KAHELKLLSECQYKQLSVSLL
740	NP_060898.2	381	QYKQLSVSLLCYNFLREALEV
741	NP_060918.2	264	EKIIPLVVKFCNVDDDELREY
742	NP_060918.2	940	ENIWALLLKHCECAEEGTRNV
743	NP_060918.2	942	IWALLLKHCECAEEGTRNVVA
744	NP_060918.2	1007	PQPIDPLLKNCIGDFLKTLED
745	NP_060962.2	22	KLSEKKKSVLCSTPTINIPAS
746	NP_060962.2	70	PWAVKKNPICNDHYRSVYQK
747	NP_060979.2	48	LPKATILDLSCNKLTTLPSDF
748	NP_061118.1	28	KKFDPMGQQTCSAHPARFSPD
749	NP_061141.2	384	LLSKLFDLKCDAERENFHRL
750	NP_061141.2	395	DAERENFHRLCENYIKSWFEG
751	NP_061167.1	121	LLYLQLYRVTCQTYLLRSLD
752	NP_061167.1	169	AVIYHKLRSDCESQECVTKLL
753	NP_061313.2	353	RSFGAEHEVCRYKEALEQCR
754	NP_061322.2	806	IPKTGFYCKLCSLFYTNEEVA
755	NP_061910.1	97	KRRPHGDRKSCEMGLQLRQTF
756	NP_061915.2	38	EETKKQKLSECSLTKGQDGLQ
757	NP_062552.2	153	GGGGKRRNSCNVGGGGGFK
758	NP_062552.2	429	CKYYGYRNPSCEDGRLRVLKP
759	NP_063949.2	84	FVETIAKDAYCCAQQGKRKTL
760	NP_064504.2	645	SSYLESLYQSCPRGVVFPQAG

761	NP_064528.1	64	PAKRPFVFPPLCGDGLLSGKEE
762	NP_065104.1	326	DGEVVQEEVCAKPSVTEEKN
763	NP_065108.1	114	RAMAKAAREECPVFTPPGGET
764	NP_065393.1	1101	YSNSALGHVNCTIKELRRLFL
765	NP_065700.1	261	ARRQSDLVQCGVTSPPSAAEA
766	NP_065731.3	241	KIPKTLVPHYCELVGANPKVR
767	NP_065741.3	181	VLRRLTSSVSCALDEAAAALT
768	NP_065741.3	535	IKAGADIELGCSTPLMEASQE
769	NP_065761.1	190	LLSELAADNCLRELSPIAH
770	NP_065761.1	249	DKRLEKMGVSGQTRSILEYLR
771	NP_065801.1	419	GFPSKTDSPSCEYSRFDSD
772	NP_065816.2	1458	HLCGSLAQLACVEPVRLQAWL
773	NP_065816.2	2222	QDMVAIRHTACNEQQRMTMIL
774	NP_065816.2	2554	DQALLSKAVQCLNTSSKEGKD
775	NP_065816.2	5121	PTSNTTEGGWSCSLAEYIRHND
776	NP_065823.1	234	RKARRNSAKGCENLNIQDKI
777	NP_065857.1	452	MRVTTGAPIPCGADAVVQVED
778	NP_066018.1	266	ITQQHQIHRCTVNIMFGTPQ
779	NP_066930.1	64	GRPQLKGVVLTCTFTRKPKKPN
780	NP_066952.1	254	NTTLESESPFKCDPAARAIVD
781	NP_066952.1	270	RAIVDALPPPESACTVPTDV
782	NP_066961.2	124	WKGTLKEYESCHEGRCLMLT
783	NP_066961.2	287	KKTATFENIVCVLNREVERVA
784	NP_066964.1	296	KEDIQKETVYCLNDDDETEVL
785	NP_066997.3	644	KPRGEASEDLCEMALDPELLL
786	NP_067026.3	73	SQRAVLLVGLCDSGKTLFVR
787	NP_067026.3	100	RDTQTSITDSCAVYRVNMRG
788	NP_067066.1	39	KFGVLFRRDKCANLFEALVGT
789	NP_067075.1	160	ASAKTCDGVQCAFEELEVKII
790	NP_068598.1	168	LQAQVIVDYCLKLSSLPAEQH
791	NP_068598.1	670	KAAVPLGGFLCNVADKSGAME
792	NP_071349.3	598	DFVVDKRVQSCPDAVYGVVQ
793	NP_071441.1	24	LRAFGGPGAGCISEGRAYDTD
794	NP_071757.4	549	NLTNGDEPTQCSRHLCCQLAL
795	NP_071757.4	819	LVLRYHPLSSCLTARLMGLLS
796	NP_071933.2	182	TLDTRKIVEACKAKTDAGGED
797	NP_073570.1	196	DLGLDAPVACSIANSKTSNT
798	NP_073576.1	151	RIGTGGQVVDCSRFDNDLPD
799	NP_073600.3	558	LTASNTEGKSCPSEVLVCTTS
800	NP_073616.6	660	VSEIKMEDILCVLTRDDCFKG
801	NP_075013.1	60	FKHALKNGDICETSGPKKTP
802	NP_075066.1	53	KELERQRLRCPPPPVRRSEK
803	NP_075568.1	42	VSSARNPSTVCLCPEQPTCSN
804	NP_076968.2	732	SLKTVKPSLSCKDLALYENLF
805	NP_076977.3	73	RPLPTFPTSECTSDVEPDTR
806	NP_077003.1	127	QPKPSEEAPKCSQDQGVASE
807	NP_077295.1	58	LTWYAKGRAPCAGPSREEELA
808	NP_078832.1	319	DLPEYFKRLTCEISTRGTSAG
809	NP_078837.3	259	NLIDRNAENWCYEGLEKALQ
810	NP_078880.2	519	QPQASLKQDVCQSYSEKMPIE
811	NP_078934.3	708	VFEEVFKLLECPHLNVRKAAH
812	NP_078934.3	735	CCALHKACQSCPSEPNTAALQ
813	NP_078934.3	1027	IDVAPELLRICSLILADNKIP
814	NP_078938.2	105	LFIAATNIRYCYNETHKILG
815	NP_078938.2	499	CLNITRIVSGCPLPEACELEY
816	NP_078983.1	44	LRPEVPEIQECPIAQESLESQ
817	NP_078994.3	491	TKGPAPAPQQCSEPETKWSI
818	NP_079058.1	99	HPSEATFSCDCVADALILVR
819	NP_079092.2	482	EETEVLASLCSLRTEMERVQ
820	NP_079120.1	175	HLLDWVRLHVCEVDSLADVL
821	NP_079351.2	90	NYEKIYKEIECSIAGAHEKIA
822	NP_079353.3	80	LGDRKSLLNQCIEERYKAVCH
823	NP_079353.3	371	AKDGPPKKQVCGDSIKPEETE
824	NP_079434.3	603	QDEKAEKQICEEQEQALQEM
825	NP_079472.1	124	VADVLEKATQCVPKKEIKDDN
826	NP_079483.3	236	SARLHYGTDPTGQPFRLFV
827	NP_079491.2	260	SQKGPQDPSACRYILEMYCEE
828	NP_085153.1	149	FDPDSKKAKECEPPSAGAAVT
829	NP_110379.2	76	EVEHPAAKVLCELADLQDKEV
830	NP_110379.2	147	IVNTDELGRDCLINAAKTSMS
831	NP_110379.2	357	QAEVVQERICDDELILIKNT
832	NP_112552.1	145	YQHYKGSDFDCLELRLIHQSL
833	NP_112552.1	184	TQTTIKLFQECPPHSTDRVVL
834	NP_112552.1	185	QTTIKLFQECPPHSTDRVVI
835	NP_113619.2	349	RELLLGPSIACTVAELTSQNN
836	NP_114032.2	389	YGYSLKGIKTCNCETEDYGEK

837	NP_114032.2	391	YSLKGIKTCNCETEDYGEKFD
838	NP_114032.2	594	VSAAAQRKMKCLFAGFQRKAV
839	NP_114032.2	607	AGFQRKAVVVCVKDEYKQRT
840	NP_115521.3	592	RHLRSFGVQPCVSTVLVEPAR
841	NP_115649.1	101	LNTGDLDCETCTITRSLTGL
842	NP_115675.1	31	GLKKCKISSYCRSQPPARLIS
843	NP_115700.1	101	LALPVLNRNADCSSGPGQVVCV
844	NP_115700.1	110	DCSSGPGQVVCVIDEIGKMEL
845	NP_115710.2	207	KKISGPNPLSCLKKKKKAPDT
846	NP_115766.3	237	TVDSQGPTPVCTPTFLERRKS
847	NP_115766.3	269	DEIVFKQPISCVKEEIQETQT
848	NP_115784.1	156	EATEKKSAGACDSSPSDKENS
849	NP_115784.1	1420	QVFTNAEVYNCRGSHVLSVMV
850	NP_116021.2	36	ISLAAPKETDCVLTQKLIETL
851	NP_116167.3	19	GSGKEEGPAPCKQMKLEAAGG
852	NP_116258.2	111	VFRLPTDLTACDNRLCASIHF
853	NP_116258.2	376	QGELIRDSAQCAAIARLMHL
854	NP_116559.1	49	KKVLTKKIKQCLESDAGASN
855	NP_116559.1	606	NSFRAESSQTCHSEQGDKKME
856	NP_127460.1	80	VVLLGEFLHPCEDDIVCKCTT
857	NP_127492.1	215	DRSILSPGGSCGPIKVKTEPT
858	NP_150093.1	17	GSERGGGGPCGFPASRGGG
859	NP_150093.1	273	KAWGKFGGAFCRYADEMKEIQ
860	NP_150241.2	212	IYCRGCSKPLCCSCALLDSSH
861	NP_150241.2	213	YCRGCSKPLCCSCALLDSSH
862	NP_443087.1	209	TPESTKPGPVCQPPVQSRSLS
863	NP_443091.1	448	NMGIRITQSLCFIHRYYRRSP
864	NP_443109.2	31	DLKNSLGSFICKLENYGRLT
865	NP_443111.4	599	KPSRASTASPCNNNINAATAV
866	NP_444505.1	119	AAARAGAIAPCEVTVPAQNTG
867	NP_476516.1	214	GLYREALEHLCTYEKQICDKL
868	NP_476516.1	238	ETKGELELLQLCRLEDAADVYR
869	NP_476516.1	721	CMIRLFFNTAVCESKDLSDTVR
870	NP_510868.1	275	NYSVQEEESDTCGLGKWSFDDV
871	NP_536348.1	330	LEEEKLTGDRCTGLSSKMQDT
872	NP_542165.1	165	KKDEEVLKKNCPHIVVGTGPR
873	NP_542397.1	82	LLNGVRFANSCDSVYSACTDG
874	NP_542409.1	50	EVAELEANLPCTCKVHFDPDN
875	NP_542417.2	437	GDYPRDRGGPPCKPPAPEDEDE
876	NP_542784.1	105	HVIRINKMLSCAGADRLQTGM
877	NP_543011.2	77	ATGTTGSSVSCTEEKKQSKSQ
878	NP_570853.1	175	KDEDEKEKAACSAAMEEDSE
879	NP_612142.2	255	DKSVMESSDRCALSSPSLAFT
880	NP_612409.1	65	ATSEGEAPGGCEGRGAPVSFR
881	NP_612430.2	25	EEEEEVAGGDCIGSTVYSKHW
882	NP_612486.2	1213	PHLPEPQLRACELVQPNRGTV
883	NP_613075.1	294	EELLEKTVMKNLALADDKLLK
884	NP_620150.1	158	NLSAIQDREICCYISICCKEKD
885	NP_620305.2	2070	EIAKANAAAMCAKAGVPLPPN
886	NP_620305.2	2109	GATIEELTEKCKQIAQSKEDD
887	NP_620407.1	161	KPSNLLLNTTCDLKI CDFGLA
888	NP_624358.2	1295	RRRAF SRWLSCTATPQIEEEV
889	NP_631908.1	331	KPESNEQVLSCEYITLNEPKR
890	NP_647539.1	191	YEILNSPEKACSLAKTAFDEA
891	NP_659400.2	191	DIKICTLPEKCAVDKI IDSGP
892	NP_659486.2	154	VDYTLFDHRSCAETGVLMRP
893	NP_659731.1	29	SKRKKDLRISCMSPAPNPT
894	NP_663745.1	64	FLHNQAKNLLCGFYGRHAELR
895	NP_680477.1	36	GNIDFRQADFCVMTRLLGYVD
896	NP_689557.1	20	SVGSQVSCRTCQEQLQGEVV
897	NP_689956.2	513	PVLQKRLCHPCWEVRDSALEF
898	NP_705618.1	1344	YVENPSQVLNCEERRFTNLCL
899	NP_705931.1	305	EGQAEGDSGECKGGDEEENDE
900	NP_722517.3	94	ANGVIMMLKSCDAAA VAKAA
901	NP_722517.3	362	DELAYNSSSACASSRGYRXXX
902	NP_733765.1	997	ARNYLEPGKECVQPATKSCSF
903	NP_733779.1	120	LDIKGLLDVTCCTVANMIKGG
904	NP_733821.1	522	LVWKAQNTWGCNSLR TALIN
905	NP_775083.1	306	AKAKEKLEKCGEDDETIPSE
906	NP_775083.1	386	AAPAPVSEAVCRTSMCSIQSA
907	NP_775083.1	391	VSEAVCRTSMCSIQSAPPEPA
908	NP_775083.1	639	IDALSGDLDCPSTTETSQNT
909	NP_775838.3	287	PINHRYNIFSCPLKHHMVTT
910	NP_775882.2	216	QLERINDALSCEYECCRRLMLM
911	NP_775882.2	295	SSGTSREKTACAINKVL MGRV
912	NP_777567.1	22	DFEKRGKKEVCPVLDQFLCHV

913	NP_777567.1	377	EGPVSSSSSDCRETEELVGSN
914	NP_777573.1	242	SEAQKTPAQECKPADFEVPET
915	NP_777576.1	1603	SLIELPDDYSCLLNQASHFRC
916	NP_783863.4	623	KAQGPALDLICSKNKTAQKAA
917	NP_786924.2	374	MNRVQQVELICEYNDLKTTELK
918	NP_787048.1	523	PSSPRVTEAPCYPGAPSTEAS
919	NP_789839.1	92	PTYKKRRLDECEEFQGTKVF
920	NP_808816.1	52	GSGDVDDAGDCSGARYNDWSD
921	NP_817092.1	241	GIPTGEAGPSCSSASDKLPRV
922	NP_852118.1	798	ESLAKINEEKCNLAFQRDEKV
923	NP_852118.1	817	KVLELEKEIKCLQEESVVOCE
924	NP_859056.2	97	KDLLVENVPYCDAPTQKQXXX
925	NP_862820.1	562	LRENVVNFIDCLVREYLLPPE
926	NP_886552.2	373	CELLKYQGEHCLLKEMQQWSI
927	NP_886553.3	662	LDPTRLQGINCGPDFTPSFAN
928	NP_891552.1	585	GTLETLNIGCFLLLEVTKDP
929	NP_940890.3	789	VGGERRSLESCLLDLRSFAQ
930	NP_942127.1	20	TGKELLYKFICTTSAIQNRFK
931	NP_945314.1	1349	QVAELVKELRCELDQLLQDKI
932	NP_958437.1	117	QRLQAANDSVCRLLQREQERK
933	NP_958782.1	3821	REALAEASAWCYLYGTGSVAG
934	NP_958929.1	113	QKLRAQVRRLCQENQWLRDEL
935	NP_963863.2	537	LSTSRNLSNNCDTGEKPVVTF
936	NP_987102.1	32	GDILKVLNEECDQNWYKAELN
937	NP_997195.1	376	GDLAKVQRAVCMLSNTTAAIE
938	XP_005245073.1	620	MVEKQESSENSCNKEEPEVFTTR
939	XP_005246697.1	285	SFLHNKAEWRCIEIATLERLK
940	XP_005247870.2	77	VYSRANDQEPGWWLAKVRMM
941	XP_005248608.1	131	DTTRQVQRISCFQSTVVKCLTV
942	XP_005248611.1	464	RKQRAQVAFECDEKDEREAP
943	XP_005252348.1	438	GNLEALAEYACKLSEQKEQLV
944	XP_005252522.1	112	RTREGRLKAACNLLQRGITNL
945	XP_005254127.1	28	KKETGAASFLCRYPEYDGRGV
946	XP_005254330.1	331	ISEEPPAKRQCIEIENRVES
947	XP_005255128.1	58	PPGPPAAASPLGVPVAAAGSG
948	XP_005257069.1	459	EKWLKEDKLECSEELGDLVKS
949	XP_005257069.1	491	RANVPNKVIQCFAETGQVQKI
950	XP_005257069.1	736	DVHFYIQAACKTGQIKEVER
951	XP_005257069.1	870	PWLEARIHGCEEPATHNALA
952	XP_005259631.1	18	GLSPYADK GKGLPEIFDPPE
953	XP_005260441.1	80	ENETGALLPCLDESFRFENLG
954	XP_005260441.1	341	YKRFIKFARVCEVDNELRICA
955	XP_005262022.1	1401	QRAESPEEVACRKEEERKAR
956	XP_005262022.1	1832	LLLRHIIEDPCTLRHTMEKVV
957	XP_005262022.1	2721	DKENRDQSAQCTASKSNDSTE
958	XP_005262022.1	3658	YNLEQQORRAQCETLSPDGLPE
959	XP_005262358.1	456	EARRGWRLFNCASLDWPRMV
960	XP_005264059.1	50	KEYDLAKKYICTYINVQERDP
961	XP_005264061.1	2696	GKLYLDGSEKCRPLEENTADN
962	XP_005264337.1	517	APVKMLPTYVCATPDGTEKGD
963	XP_005264696.2	464	CVLHYYNVPLCVTEETFKLC
964	XP_005265003.1	1369	LLKKTLELLVCRVKAMLTNN
965	XP_005265371.1	128	VIHPKTDEQRCRLQEACKDIL
966	XP_005265728.1	58	ASSPRGMVRVCDLLKKKPPQ
967	XP_005265919.1	68	EVEHMIQKNQCLFTNTQCKVC
968	XP_005267294.1	688	ENQKGDKKLRCDSDLRHDID
969	XP_005267559.2	2415	IEDLGLNFQFCPSSRIYGFTA
970	XP_005268645.1	159	LHGQNPVVTPCNKQFLSQFEM
971	XP_005269704.1	330	TYFSNQAVRACILCVHPRTRV
972	XP_005269704.1	535	LIESKLPVITCYADAKPGLQT
973	XP_005272154.1	18	LKQEIQTQFHCSAAEGDIAKL
974	XP_005273538.1	18	HSQRICEVWACNLDEEMKKIR
975	XP_005274249.1	2070	KSAVAWEERFCALEKLTALEE
976	XP_005274297.1	5502	LQMPGIKSSGCDVNLPGVNVK
977	XP_005274302.1	2806	DVSGPKVDVECPDVNI EGPEG
978	XP_005274822.1	12	DRPAAAAAGCEGGGGPNPGP
979	XP_006710487.1	193	STPEEKLAALCKKYAELLEEH
980	XP_006711880.1	238	KVLEALQVLRCELTPKYNTE
981	XP_006712771.1	220	TLKEYLESQCLESDKSDWRA
982	XP_006713650.1	2669	RIAELEEEELVCVQKEAAKVG
983	XP_006713650.1	3075	EKNTLSIQLCDTSQSLRENQ
984	XP_006715390.1	199	VVDHLLLRKCDLAFRQVGLL
985	XP_006716030.1	300	KKGKLPVNDCELVVAIART
986	XP_006716244.1	62	VLNVPETRVTCLESGLRVASE
987	XP_006719554.1	56	DAELRERLRQCEETIEQLRAE
988	XP_006720075.1	773	ELLMKMLALSCKLEREFRCVE

989	XP_006721126.1	456	DAQSGPAGLVCGDQRIQVAKT
990	XP_006721184.1	344	RRIYERPSTTCSKPQRVKQNS
991	XP_006722424.1	73	EDDLVKESSSCGKDTPSKRRK
992	XP_006723964.1	176	FHQAGKPIGLCCIAPVLAAKV
993	XP_006724361.1	296	KRADVAGPRPCQRSLSVLSR
994	XP_011507441.1	13	ERGDSEPTPGCSGLPGGVRG
995	XP_011508999.1	22	FQSHMATKTTTCMSSQGSDEQ
996	XP_011509363.1	53	AFPPLPEKAACLESQAQEPAGA
997	XP_011509363.1	948	KDCDPSGSPRRCDIIISGRKE
998	XP_011511551.1	49	LVGQENAREACGVIVELIKSK
999	XP_011511729.1	87	EKNRAIIQEVCFMKKLSGHPN
1000	XP_011511975.1	14	TAQPKPATALCGVVSADGKIA
1001	XP_011512178.1	614	KICNEILTSPCSPEIRVYTKA
1002	XP_011513330.1	803	PIGSWECSVCCVSNNAEDNKC
1003	XP_011513883.1	107	SGAELALDYLRCRWAQKHKNWR
1004	XP_011514709.1	171	ILKSHGKDEECVLEAENKLLV
1005	XP_011517144.1	142	LTEEKYQVEQCVNEASIIIRN
1006	XP_011517144.1	218	FQARANGLKSCVIVLRILRDL
1007	XP_011517729.1	212	KVTFNLSKSGACSSSGATSSKS
1008	XP_011518570.1	258	YRHLGTLRLRHCVMIAATAGDRT
1009	XP_011518976.1	50	TRKVFANPEDCVAFGKGENAK
1010	XP_011520300.1	474	PTQDGSAIETCPKGEEPRGDE
1011	XP_011521075.1	30	SSSEDGGHIFCTLESCLKRYLG
1012	XP_011521075.1	568	KVLLHLEEKTCVVGFAGLRQR
1013	XP_011522750.1	123	IRVDKITEYLCEPLRCLKDE
1014	XP_011522759.1	191	QQVQVAAEYCRACRLKSTCI
1015	XP_011522759.1	200	YCRACRLKSTCIYGGAPKGPQ
1016	XP_011522759.1	221	IRDLERGVEICIAATPGRLIDF
1017	XP_011522759.1	234	TPGRLIDFLECGKTNLRRTTY
1018	XP_011522759.1	354	TIVFVETKRRCDELTRKMRRD
1019	XP_011523944.1	84	ITTTSRKEITCDNFDETVKDG
1020	XP_011523944.1	1656	ASQQLLNEMKQVEEARLKEA
1021	XP_011525909.1	677	IGCVWAADRDCAGDDLKVLQQ
1022	XP_011529175.1	150	MFELMKQMKLCVQNSPQEARN
1023	XP_011529430.1	478	SPYTVTVGQACNPSACRAVGR
1024	XP_011529430.1	717	LRVQVQDNEGCPVEALVKDNG
1025	XP_011529430.1	1157	GSPFKAHVVPFCFDASKVKCSG
1026	XP_011530335.1	180	FCRFKAVGYSCMPSNKDEDGL
1027	XP_011530590.1	200	VYHFDKSTSSCISTNALLPDP
1028	XP_011530775.1	571	TELLYKDGRYCQEPGPTAV
1029	XP_011531169.1	873	YDIMEPAAKKCYLERENLRVT
1030	XP_011531400.1	119	LIIKTSSDPTCVEKEKVYIGK
1031	XP_011531400.1	528	VTVIKDLLGLCEQKRKGDNKA
1032	XP_011531777.1	119	SGPGPEPAVFCEPVVKLYRE
1033	XP_011532093.1	287	PIDFSYRVAACLPIDDVLRIQ
1034	XP_011532690.1	114	STAENAFISCIWKLNRQYLR
1035	XP_011532849.1	122	FVRLRGLPFGCSKEEIVQFFS
1036	XP_011533477.1	11	MSLWVDKYRPCSLGRLDYHKE
1037	XP_011533477.1	32	QAAQLRNLVQCGDFPHLLVYG
1038	XP_011533633.1	74	RRSQKPEAGGCGAPAAREVIL
1039	XP_011534203.1	228	AFVELTKQASCSCGDEYRSLKV
1040	XP_011534923.1	254	GGTVSGPSSACKPGRSTGAP
1041	XP_011536034.1	177	WYRAPEILLGCKYYSTAVDIW
1042	XP_011536399.1	548	VGPSGSGKSSCVNILENFYPL
1043	XP_011537482.1	596	RANSVSVSVNCKGKDKSEKIEE
1044	XP_011540695.1	148	PDSGGLPERSCMLTGTPEVQ
1045	XP_011540947.1	102	STKGNFEDYCLKRELLMGIF
1046	XP_011542150.1	75	VYKEIAITNGCINRMSKEELR
1047	XP_011542226.1	206	IRLEHEEGAPCTAIREVSLK
1048	XP_011542435.1	196	TVFVGNLPVTCNKKIPAEGL
1049	XP_011544117.1	544	SFPGAAEERACQSLASRDSLL
1050	XP_011544117.1	853	PSSSGSAWEACSEAPSKGSQD
1051	XP_011544117.1	1091	AMDKHNLERKCAMLEYTTGSR
1052	XP_011544196.1	33	ATEAPARPVNACLEAAAAGAA
1053	XP_011544230.1	225	ETPVIVGSALCALEGRDPELG
1054	XP_011544301.1	890	VQTRLREIQPCLAESRAAREK

1055
1056

1057 Negative non-sulfenylation sites

1058	Ref ID	Position	Peptide sequences
1059	NP_000009.1	156	VPSELGGVGLCNTQYARLVEI
1060	NP_000009.1	215	LASGETVAAFCLTEPSSGSDA
1061	NP_000009.1	433	SEAAWKVTDECIQIMGGMGFM
1062	NP_000009.1	477	ILRLFVALQGCMDKKGKELSGL
1063	NP_000009.1	603	HPTAQHEKMLCWTWCIEAAAR
1064	NP_000009.1	607	QHEKMLCWTWCIEAAARIREG

1065	NP_000010.1	119	LGAGLP ISTPCTTINKVCASG
1066	NP_000010.1	142	AIMMASQSLMCGHQDVMVAGG
1067	NP_000010.1	413	KQGEYGLASICNGGGGASAML
1068	NP_000088.3	13	LQLGRLSSGPCWLVARGGCGG
1069	NP_000088.3	21	GPCWLVARGGCGGPPRAWSQCG
1070	NP_000088.3	30	GCGGPPRAWSQCGGGLRAWSQ
1071	NP_000088.3	48	WSQRSAAGRVCRPPGPAGTEQ
1072	NP_000088.3	127	EEEEDELAHRCSSFMAPPVTD
1073	NP_000088.3	164	LLILETQAQVCQALAVDGGGA
1074	NP_000088.3	192	ERKEGGGGISCVLQDGCVF EK
1075	NP_000088.3	239	LKTKDGLPFCAMGVSSVIHP
1076	NP_000088.3	281	GNKQWWFGGGCDLTPTYLNQE
1077	NP_000088.3	304	VHFHRTLKEACDQHGPDLYPK
1078	NP_000088.3	319	PDLYPKFKKWCDDYFFIAHRG
1079	NP_000088.3	357	KEEVFRFVQSCARAVVPSYIP
1080	NP_000088.3	373	PSYIPLVKKHCDDSFTPQEKL
1081	NP_000170.1	88	RSVAPAAPTSCDFSPGDVWA
1082	NP_000170.1	108	AKMEGYPWWPCLVYNHPFDGT
1083	NP_000170.1	196	DKIKRLELAVCDEPSEPEEEEE
1084	NP_000170.1	406	LYVPEDFLNSCTPGMRKWWQI
1085	NP_000170.1	426	IKSQNFDLVICYKVGKIFYELY
1086	NP_000170.1	496	TETPEMMEARCRKMAHISKYD
1087	NP_000170.1	514	KYDRVVRREICRIITKTQTY
1088	NP_000170.1	559	SSGHTRAYGVCFVDTSLGKFF
1089	NP_000170.1	579	FIGQFSDDRHCSRFRTLVAHY
1090	NP_000170.1	687	SELALSALGGCVFYLLKCLID
1091	NP_000170.1	694	LGGCVFYLLKCLIDQELLSMA
1092	NP_000170.1	765	EGTLLEERVDTCHTTPFGKRLK
1093	NP_000170.1	779	FGKRLKQWLCAPLCNHYAIN
1094	NP_000170.1	783	LLKQWLCAPLCNHYAINDRLD
1095	NP_000170.1	869	LSALEGFVKMCKIIGIMEEVA
1096	NP_000170.1	964	YLEKQRNRIGCRTIVYWGIGR
1097	NP_000170.1	1003	EYELKSTKKGCKRYWTKTIEK
1098	NP_000170.1	1032	EERDRVSLKDCMRRLFYNFDK
1099	NP_000170.1	1053	NYKDWQSAVECIAVLDVLLCL
1100	NP_000170.1	1062	ECIAVLDVLLCLANYSRGGDG
1101	NP_000170.1	1075	NYSRGGDGPMCRPVILLPEDT
1102	NP_000170.1	1098	FLELKGSRHPCITKTFGDDF
1103	NP_000170.1	1117	DFIPNDILIGCEEEQENGKA
1104	NP_000170.1	1129	EEEQENGGKAYCVLVTGPNMGG
1105	NP_000170.1	1158	GLLAVMAQMGCVPAEVCRLT
1106	NP_000170.1	1165	QMGCVPAEVCRLTPIDRVFT
1107	NP_000170.1	1241	VVKELAETIKCRTLFSTHYHS
1108	NP_000170.1	1269	NVAVRLGHMACMVENECEDEPS
1109	NP_000170.1	1275	GHMACMVENECEDEPSQETITF
1110	NP_000170.1	1294	TFLYKFIKACPKSYGFNAAR
1111	NP_000170.1	1337	NQSLRRLFREVCLASERSTVDA
1112	NP_000180.2	133	GTQLFDHIAECLANFMDKLQI
1113	NP_000180.2	158	LPLGFTFSFPCHQTKLDESFL
1114	NP_000180.2	217	VNDTVGTMTCGYDDHNCIEIG
1115	NP_000180.2	224	MMTCGYDDHNCIEIGLIVGTGS
1116	NP_000180.2	237	GLIVGTGSNACYMEEMRHIDM
1117	NP_000180.2	256	DMVEGDEGRMCINMEWGAFGD
1118	NP_000180.2	368	RLGLDPTQEDCVATHRICQIV
1119	NP_000180.2	375	QEDCVATHRICQIVSTRSASL
1120	NP_000180.2	386	QIVSTRSASLCAATLAAVLQR
1121	NP_000180.2	438	HKTVRRLLVPGCDVRFRLRSEDG
1122	NP_000180.2	517	APVKMLPTYVCATPDGTEKGD
1123	NP_000180.2	628	KWTKGFKASGCEGEDVVTLLK
1124	NP_000180.2	717	MEWGAFGDNGCLDDFRTEFDV
1125	NP_000180.2	813	ILQHLGLESTCDDSIIVKEVC
1126	NP_000180.2	823	CDDSIIVKEVCTVVARAAQL
1127	NP_000180.2	909	KGAALITAVACRIREAGQRXX
1128	NP_000185.1	23	DEPGYDLDFCIPNHYAEDLE
1129	NP_000185.1	66	EMGGHHIVALCVLKGKGYKFFA
1130	NP_000185.1	206	NEYFRDLNHVCVISETGKAKY
1131	NP_000225.1	87	PAKGQKPALDCSQVSPRPAT
1132	NP_000225.1	280	KNNYHPVEDACWKPGQKVPYL
1133	NP_000225.1	434	IDIIKGLFVACRHSEARFIAR
1134	NP_000225.1	508	EQGMILKQTFCEVPDLDR IIP
1135	NP_000225.1	532	EHGLERLPEHCKLSPGIPLKP
1136	NP_000225.1	565	LKRFEAAFTCEYKYDQORAQ
1137	NP_000225.1	656	VDASEIQVQVCLYAFDLIYLN
1138	NP_000225.1	719	EFLEQSVKDSCEGLMVKTLDV
1139	NP_000225.1	794	DEDSEELQAICKLGTGFSDEE
1140	NP_000225.1	846	LDPSAVWEVKCADLSLSPIYP

1141	NP_000312.2	61	ETEEPDFTALCQKLIKIPDHVR
1142	NP_000312.2	102	IQKKKELWIGICIFIAAVDLDE
1143	NP_000312.2	169	FALFSKLERTCELIYLTQPSS
1144	NP_000312.2	221	DLVISFQLMLCVLDYFIKLS
1145	NP_000312.2	278	ENDTRIIIEVLCKEHECNIDEV
1146	NP_000312.2	283	IEVLCKEHECNIDEVKNVYF
1147	NP_000312.2	407	SENLSYFNNCTVNPKESILK
1148	NP_000312.2	438	EKFAKAVGQGCVEIGSQRYKL
1149	NP_000312.2	489	DNIFHMSLLACALEVVMATYS
1150	NP_000312.2	553	TREMIKHLERCEHRIMESLAW
1151	NP_000312.2	590	EGPTDHLESACPLNLPQNNH
1152	NP_000312.2	666	RLAYLRLNTLCERLLSEHPPEL
1153	NP_000312.2	706	RDRHLDQIMMCSMYGICKVKN
1154	NP_000312.2	712	QIMMCSMYGICKVKNIDLKFK
1155	NP_000356.1	42	AKVPADTEVVCAPPTAYIDFA
1156	NP_000356.1	67	DPKIAVAAQNCYKVTNGAFTG
1157	NP_000356.1	127	ALAEGLGVIACIGEKLDEREA
1158	NP_000356.1	218	IYGGSVTGATCKELASQPDVD
1159	NP_000373.1	214	VTLELGGKSPCYIDKDCDLDI
1160	NP_000373.1	220	GKSPCYIDKDCDLDIVCRRIT
1161	NP_000373.1	226	IDKDCDLDIVCRRITWGKMYN
1162	NP_000373.1	237	RRITWGKYMNCGQTCIAPDYI
1163	NP_000373.1	241	WGKYMNCGQTCIAPDYILCEA
1164	NP_000373.1	249	QTCIAPDYILCEASLQNQIVW
1165	NP_000373.1	425	SFDTFShQRPCLLKSLKREGA
1166	NP_000393.4	17	APGNGRITLRGCERGRRRRSA
1167	NP_000393.4	188	EAVTKNIHESCMSQIGWNR I I
1168	NP_000393.4	262	GPIWNRDNIACVILTFKEPFG
1169	NP_000393.4	299	VMQNHLQLMLCLVAMEKPAST
1170	NP_000393.4	324	VRDEKVKVLKCISEVQANNVV
1171	NP_000393.4	388	RWDGVVPIILRCGKALNERKAE
1172	NP_000393.4	415	DVAGDIFHQQCKRNELVIRVQ
1173	NP_000393.4	476	AYERLILLDVFCGSQMHFVRS
1174	NP_000445.1	7	XXXXMATKAVCVLKGDPVQ
1175	NP_000445.1	58	VHEFGDNTAGCTSAGPHFNPL
1176	NP_000445.1	147	KTGNAGSRLACGVIIGIAQXXX
1177	NP_000678.1	53	KPLKGIAR IAGCLHMTVETAVL
1178	NP_000678.1	79	TLGAEVQWSSCNIFSTQDHAA
1179	NP_000678.1	113	KGETDEEYLWCIEQTLYFKDG
1180	NP_000678.1	195	TKSKFDNLYGCRESLIDGIKR
1181	NP_000678.1	228	VAGYGDVGKGAQALRGFGAR
1182	NP_000678.1	266	GYEVTMDEACQEGNIFVTTT
1183	NP_000678.1	278	EGNIFVTTTGCIDIILGRHFE
1184	NP_000678.1	297	FEQMKDDAIVCNIGHFDVEID
1185	NP_000678.1	349	LAEGRLVNLGCAMGHPFVMS
1186	NP_000703.2	74	SSQEVEVAYICSESSSHEDYI
1187	NP_000703.2	281	LAAEKKRILHCLGLAEI QKY
1188	NP_000703.2	292	LGLAEI QKYCCSRKXXXXXX
1189	NP_000703.2	293	GLAEI QKYCCSRKXXXXXX
1190	NP_000843.1	15	TVVYFVVRGRCAALRMLLADQ
1191	NP_000843.1	48	TWQEGSLKASCLYGQLPKFQD
1192	NP_000843.1	170	LLIHEVLAPGCLDAFPLLSAY
1193	NP_000875.2	26	DGLTAQQFLNCGDGLTYNDFL
1194	NP_000875.2	95	TGGIGFIHNNCTPEFQANEVR
1195	NP_000875.2	140	VFEAKARHGFCGIPITDTGRM
1196	NP_000875.2	173	IDFLKEEEHDCFLEEIMTKRE
1197	NP_000875.2	246	ASKDAKKQLL CGAAIGTHEDD
1198	NP_000875.2	339	SICITQEVFLACGRPQATAVYK
1199	NP_000875.2	468	PYLIAGIQHSCQDIGAKSLTQ
1200	NP_000958.1	114	TVFAEHI SDECKRRFYKNWHK
1201	NP_000958.1	134	KSKKKAFTKYCKKWQDEDGKK
1202	NP_000958.1	253	KTHRGLRKVACIGAWHPARVA
1203	NP_000963.1	174	IELVVFLPALCRKMGPVYCI I
1204	NP_000963.1	182	ALCRKMGPVYCI IKGKARLGR
1205	NP_000966.2	21	PMRELRIRKLCCLNICVGESGD
1206	NP_000966.2	25	LRIRKLCCLNICVGESGDRLTR
1207	NP_000966.2	72	IRRNEKIAVHCTVRGAKAEI I
1208	NP_000970.1	101	RVQEVPKLVKVCALRVTSRARS
1209	NP_000980.1	52	KAKLVILANNCPALRKSEIEY
1210	NP_000980.1	85	SGNNIELGTACGKYR VCTLA
1211	NP_000981.1	144	EKIKSVGGACVLVAXXXXXX
1212	NP_000994.1	9	XXMASVSELACIYSALILHDD
1213	NP_000997.1	96	LITEDVQGNCLTNFHGMDLT
1214	NP_000997.1	111	HGMDLTRDKMCSMVKKWQ TMI
1215	NP_000997.1	139	TTDGYLLRFLFCVGF TTKRNNQ
1216	NP_001000.2	155	RRVNQAIWLLCTGAREAAFRN

1217	NP_001000.2	172	AFRNIKTIAECLADELINA
1218	NP_001001486.1	139	EELSKLVPPPECHCVREGKLEH
1219	NP_001001486.1	141	LSKLVPPPECHCVREGKLEHTL
1220	NP_001001486.1	162	ARDLVPGDTVCLSVGDRVPAD
1221	NP_001001486.1	195	ESSLTGETTPCSKVTA
1222	NP_001001486.1	225	NIAFMGTLVRCGKAKGVVIGT
1223	NP_001001486.1	343	KKLPIVETLGCCNVICSDKTG
1224	NP_001001486.1	344	KLPIVETLGCCNVICSDKTGT
1225	NP_001001486.1	348	VETLGCCNVICSDKTGTLTKN
1226	NP_001001486.1	409	PAVSRIVEAGVCNDAVIRNN
1227	NP_001001486.1	411	VSRIVEAGVCNDAVIRNNTL
1228	NP_001001486.1	465	SSEQKWMVAVKCVHRTQDRPE
1229	NP_001001486.1	477	HRTQDRPEICFMKGAYEQVI
1230	NP_001001486.1	490	KGAYEQVIKYCTTYQSKGQTL
1231	NP_001001486.1	669	VAMGQTGTDVCKEADMILVD
1232	NP_001001486.1	788	KILVSSIIIVCGTLFVFWREL
1233	NP_001001486.1	814	TPRDTTMTFTCFVFFDMFNAL
1234	NP_001001486.1	845	EIGLCSNRMFCYAVLGSIMGQ
1235	NP_001001486.1	889	LFLLGLTSSVCIVAEIKKVE
1236	NP_001001795.1	5	XXXXXXXXMWPPCGTLR
1237	NP_001001795.1	22	ALARSRGARACSGDGGVSYTQ
1238	NP_001001795.1	66	DDSKMKNFITCFKDPQFLVTF
1239	NP_001001795.1	107	PCGRERNFLRCEDRPVVFTHL
1240	NP_001001795.1	130	ADHGPPRLSYCGGGEALAVPF
1241	NP_001001795.1	179	RSALAFELSACFEYGPAPAL
1242	NP_001002010.1	23	RVGAVASASVCALVAGVVLAQ
1243	NP_001002010.1	103	LSRFSYKGRKRCPTCHNIDNC
1244	NP_001002010.1	106	FSYKGRKRCPTCHNIDNCKLV
1245	NP_001002010.1	113	CPTCHNIDNCKLVTDECRKK
1246	NP_001002010.1	120	IDNCKLVTDECRKLLQLKEK
1247	NP_001002909.1	138	ALEDLRANFYCELCQYQKH
1248	NP_001002909.1	141	DLRANFYCELCQYQKHQEF
1249	NP_001002909.1	208	ELAEQRKQAECPGSGPMFKP
1250	NP_001002909.1	247	TNSGTGATASCGLGSEFSTDK
1251	NP_001002909.1	402	EYYHYIPPAHKVKPNFPFLL
1252	NP_001002909.1	445	KKGSSPKPKSCIKAAASQGAE
1253	NP_001002909.1	569	TKAEPISYSNPLYFDFKLS
1254	NP_001002909.1	639	RMDAPASGSACSGLNKQEPGG
1255	NP_001002909.1	795	KHKGELPPSSCQRRAGTKRSS
1256	NP_001002909.1	882	SSSDASSDQSCYSRQSYSD
1257	NP_001002909.1	939	SSSDDDYSLSCSQRSRSRSH
1258	NP_001002909.1	1080	IGTGRGSEGDSCSPEDKNSVTA
1259	NP_001002909.1	1161	LPATRKPKNKCEESGLERGE
1260	NP_001002909.1	1232	APLGTPAHSDCYPGDPTISHN
1261	NP_001003.1	72	VGNFSWGSECTRKRTRIDVV
1262	NP_001003.1	174	EQFQQGKLLACIASRPGQCGR
1263	NP_001003.1	182	LACIASRPGQCGRADGYVLEG
1264	NP_001005386.1	11	MDSQGRKVVVCDNGTFVKCG
1265	NP_001005386.1	20	VCDNGTFVKCGYAGSNFPEH
1266	NP_001005386.1	110	PEKLNIDTRNCKILLTEPPMN
1267	NP_001005386.1	172	VDSGDGVTHICPVYEGFSLPH
1268	NP_001007.2	50	KALDKRQAHLCVLASNCDEPM
1269	NP_001007.2	56	QAHLCVLASNCDEPMYVKLVE
1270	NP_001007.2	69	PMYVKLVEALCAEHQINLIKV
1271	NP_001007.2	92	NKKLGEWVGLCKIDREKPRK
1272	NP_001007.2	106	REGKPRKVVGCSCVVVKDYGK
1273	NP_001007.2	108	GKPRKVVGCSCVVVKDYGKES
1274	NP_001007794.1	62	KYQHTGAVLDCAFYDPTHAWS
1275	NP_001007794.1	101	LVGTHDAPIRCVEYCPEVNVN
1276	NP_001007794.1	105	HDAPIRCVEYCPEVNVNMTGS
1277	NP_001007794.1	184	RESSLKYQTRCIRAFPNKQGY
1278	NP_001007794.1	223	EVQKKYAFKCHRLKENNIEQ
1279	NP_001007794.1	270	IWDPFNKKRLCQFHRYPSTIA
1280	NP_001008389.1	99	EDLCLTKAAYCRCWRSKTFPA
1281	NP_001008389.1	101	LCLTKAAYCRCWRSKTFPACD
1282	NP_001008389.1	110	RCWRSKTFPACDGSHNKHNL
1283	NP_001008708.1	113	PFSVLLYIGTCDNPDYLGAP
1284	NP_001008895.1	94	EELYQAVENLCSHKVSPMLYK
1285	NP_001008895.1	110	PMLYQLRQACEDHVQAQILP
1286	NP_001008895.1	138	SVLFLKKINTCWQDHCRCQMIM
1287	NP_001008895.1	143	KKINTCWQDHCRCQMIMIRSIF
1288	NP_001008895.1	289	DHSTQKPLIACVEKQLLGEHL
1289	NP_001008895.1	379	KDKVDHVIEVCFQKNERFVN
1290	NP_001008895.1	483	KSMLSKLKHCEGAAFTSKLEG
1291	NP_001008895.1	633	ELRRTLQSLACGKARVLIKSP
1292	NP_001012777.1	2	XXXXXXXXXXMCQVGEDYGEP

1293	NP_001012777.1	28	PAPRPSREQKCVKCKEAQPVV
1294	NP_001012777.1	31	RPSREQKCVKCKEAQPVVIR
1295	NP_001012777.1	47	VVVIRAGDAFCRDCFKAFYVH
1296	NP_001012777.1	50	IRAGDAFCRDCFKAFVHKFR
1297	NP_001012777.1	119	GVIFVDEGAACGQSLEERSKT
1298	NP_001012777.1	162	VFSLPPSVLWCSAQELVGSEG
1299	NP_001012777.1	388	GPAAGDSGPRCLLCMCALDVD
1300	NP_001012777.1	391	AGDSGPRCLLCMCALDVDAAD
1301	NP_001012777.1	393	DSGPRCLLCMCALDVDAADSA
1302	NP_001012777.1	433	LTETRTPPGPCCSPGVGWAQR
1303	NP_001012777.1	434	TETRTPPGPCCSPGVGWAQRC
1304	NP_001012777.1	444	CSPGVGWAQRCGQACRREDP
1305	NP_001012777.1	449	GWAQRCGQACRREDPQACIE
1306	NP_001012777.1	457	GACRREDPQACIEEQLCYSCR
1307	NP_001012777.1	463	DPQACIEEQLCYSCRVMKDL
1308	NP_001012777.1	466	ACIEEQLCYSCRVMKDLPSL
1309	NP_001012777.1	503	RAWGLQEIRDCLIEDSDDEAG
1310	NP_001014446.1	46	RAEISKIMRECQEESFWKRAL
1311	NP_001014446.1	106	GLGKVSYIGVCQSKFHFFEDQ
1312	NP_001014446.1	130	AGFGPQHNRHCLLTCEECKIK
1313	NP_001014446.1	134	PQHNRHCLLTCEECKIKHGLS
1314	NP_001014446.1	137	NRHCLLTCEECKIKHGLSEKG
1315	NP_001017423.1	8	XXXMLSQVYRCGFQPFNQHLL
1316	NP_001017423.1	23	FNQHLLPWVKCTTVFRSHCIQ
1317	NP_001017423.1	31	VKCTTVFRSHCIQPSVIRHVR
1318	NP_001017423.1	161	MAIPVLEARACAAAGQSGLMA
1319	NP_001017423.1	183	YEAMFTQYSICAAQILVTNLD
1320	NP_001017423.1	484	LLVIFESRPDCLPQVAALAI
1321	NP_001017423.1	544	VNTREEVEDLCLRLDKMIDLII
1322	NP_001017423.1	582	IPVMGHSEGICHMYVDSEASV
1323	NP_001017423.1	604	KVTRLVDRDSKCEYPACNALE
1324	NP_001017423.1	610	RDSKCEYPACNALETLIHR
1325	NP_001017423.1	672	LRTEYGDLELCIEVVDNVQDA
1326	NP_001017423.1	716	EFFLQHVDASCVFNASTRFS
1327	NP_001017992.1	18	ALVVDNGSGMCKAGFGDDAP
1328	NP_001017992.1	218	EIVRDVKEKLCYVALDFEQEM
1329	NP_001017992.1	258	VITIGNERFRCPEAIFQPSFL
1330	NP_001017992.1	286	HETTFNSIMKCDVDIRKDLIA
1331	NP_001024.1	26	DKITSRIQKLCYGLNMFVDP
1332	NP_001024.1	218	AGTNRPQLSSCFLLSMKDDSI
1333	NP_001024.1	238	IEGIYDTLKQCALISKSAGGI
1334	NP_001024.1	254	SAGGIGVAVSCIRATGSYIAG
1335	NP_001024.1	352	VEITNQDWSLMCPNECPGLDEV
1336	NP_001024.1	356	QDWSLMCPNECPGLDEVWGEE
1337	NP_001024.1	411	GTPYMLYKDCSNRKSNNQNLG
1338	NP_001024.1	425	SNQQNLGTIKCSNLCTEIVEY
1339	NP_001024.1	444	EYTSKDEVAVCNLASLALNMY
1340	NP_001024.1	544	TIYYGALEASCDLAKEQGPYE
1341	NP_001024.1	787	MVCSLENRDECLMCGSXXXXX
1342	NP_001025178.1	31	AEEREMIQKECAAIRSSFREE
1343	NP_001025178.1	47	SFREDNTYRCRNVAKLLYMH
1344	NP_001025178.1	70	GYPAHFGQLECLKLIASQKFT
1345	NP_001025178.1	106	RQDVHLLMTNCKINDLNHSTQ
1346	NP_001025178.1	124	STQFVQGLALCTLGCMGSSEM
1347	NP_001025178.1	128	VQGLALCTLGCMGSSEMCRDL
1348	NP_001025178.1	135	TLGCMGSSEMCRDLAGEVEKL
1349	NP_001025178.1	160	NSYLRKKAALCAVHVIRKVP
1350	NP_001025178.1	202	HTSVLLTEMTERSPPDLAHF
1351	NP_001025178.1	356	VQRHRSTIVDCLKDLDSVIKR
1352	NP_001025178.1	395	MKELLYFLDSCEPEFKADCAS
1353	NP_001025178.1	403	DSCEPEFKADCASGIFLAAEK
1354	NP_001025178.1	482	QQPLVQVAAWCIGEYGDLLVS
1355	NP_001025178.1	495	EYGDLLVSGQCEEEPIQVTE
1356	NP_001027017.1	304	IRLLGSTIPLCSAQWERMFNT
1357	NP_001027017.1	394	TAGDRVPWARCRQAYFGRGKN
1358	NP_001027017.1	448	SYAKSLLHGRCYDRWFDKSFT
1359	NP_001027017.1	504	LQLGYAEDGHCKGDINPNIPY
1360	NP_001027017.1	526	TRLQWDIPGECQEVIEIETSLNT
1361	NP_001027017.1	562	VAFGKGIKKCRTSPDAFVQL
1362	NP_001027017.1	586	LAHYKDMGKFCLTYEASMTRL
1363	NP_001027017.1	608	REGRTETVRSCTTESCDFVRA
1364	NP_001027017.1	613	ETVRSCTTESCDFVRAMVDP
1365	NP_001027017.1	659	TGSGIDRHLFCLYVVSXYLAV
1366	NP_001027017.1	742	INFHISSKFSFPCPETGISQGP
1367	NP_001029288.1	226	QGLVSGSNARCIALLRALQQV
1368	NP_001029288.1	266	LKPYSFSLTQCRPLSASMHNA

1369	NP_001029288.1	338	SNGDVILVYGCSLVSRILOE
1370	NP_001029288.1	437	ARAHNVPLVCCETYKFCERV
1371	NP_001029288.1	438	RAHNVPLVCCETYKFCERVQ
1372	NP_001029288.1	444	VLVCCETYKFCERVQTDAFVS
1373	NP_001029288.1	465	NELDDPDDLQCKRGEHVALAN
1374	NP_001029288.1	509	LVITELGMIPCSSVPVLRVK
1375	NP_001032242.1	21	RALLALRSAPCSPVLCAAAAA
1376	NP_001032242.1	26	LSAPCSPVLCAAAAAAFPFA
1377	NP_001032242.1	162	SFQEPHFYLRCLGKNGVFDG
1378	NP_001032242.1	188	GAPALQLPKQCTFRFPSTAIK
1379	NP_001032242.1	254	PTGTISVPNSCPASPRGAGSS
1380	NP_001032242.1	404	FRKRQRGVSCFRTPFGPLSS
1381	NP_001032242.1	439	PRSGGLQTPECLSREGSPIPH
1382	NP_001034229.1	9	XXMAAANKGKCLPGVGLAQA
1383	NP_001034229.1	131	VPVPEGYSVKCEYSAHKEGVL
1384	NP_001034229.1	149	GVLKEEILLACEGGTGTGVRV
1385	NP_001034229.1	181	GTPMLLDGVKCVGAELEYDSE
1386	NP_001035828.1	38	TDMNRLHRFLCFGSEGGTYII
1387	NP_001035828.1	99	QEPMLFALAIICSQCSDISTKQ
1388	NP_001035828.1	102	MLFALAIICSQCSDISTKQAAF
1389	NP_001035828.1	119	QAAFKAIVSEVCRIPTHLFIFI
1390	NP_001035828.1	141	FKKDLKESMKCGMWGRALRKA
1391	NP_001035828.1	305	EPGNSEVSLVCEKLCNEKLLK
1392	NP_001035828.1	309	SEVSLVCEKLCNEKLLKARI
1393	NP_001035828.1	400	LNASTVAAAMCMVTRTEKDS
1394	NP_001035828.1	422	VVAFSDEMVPVPCPVTTDMTLQQ
1395	NP_001035828.1	447	MSQIPAGGTDCSLPMIWAQKT
1396	NP_001035828.1	499	KMDIPAKLIVCGMTSNGFTIA
1397	NP_001035919.1	64	GDKDHLYSTVCKPRSPKPAAP
1398	NP_001035919.1	228	RGVPTQAKGLCGSCNKPIAGQ
1399	NP_001035919.1	231	PTQAKGLCGSCNKPIAGQVVT
1400	NP_001035919.1	254	GRAWHPEHFVCGGCSTALGGS
1401	NP_001035919.1	257	WHPEHFVCGGCSTALGSSFF
1402	NP_001035919.1	275	SFFEKDGAPFCPECYFERFSP
1403	NP_001035919.1	278	EKDGAPFCPECYFERFSPRCG
1404	NP_001035919.1	287	ECYFERFSPRCGFCNQPIRHK
1405	NP_001035919.1	290	FERFSPRCGFCNQPIRHKMVT
1406	NP_001035919.1	312	LGTHWHPEHFCCVSCGEPFGD
1407	NP_001035919.1	334	GFHEREGRPYCRRDFLQLFAP
1408	NP_001035919.1	346	RDFLQLFAPRCQGCQGPILDN
1409	NP_001035919.1	349	LQLFAPRCQGCQGPILDNYIS
1410	NP_001035919.1	369	SALSALWHPDCFVCRECFAPF
1411	NP_001035919.1	372	SALWHPDCFVCRECFAPFSGG
1412	NP_001035919.1	393	SFFEHEGRPLCENHFHARRGS
1413	NP_001035919.1	405	NHFHARRGSLCATCGLPVTGR
1414	NP_001035919.1	408	HARRGSLCATCGLPVTGRCVS
1415	NP_001035919.1	416	ATCGLPVTGRCVSALGRRFHP
1416	NP_001035919.1	455	ERAGKPYCQPCFLKLFQXXXX
1417	NP_001036041.1	500	QSSEAEVRSKCEELSGLHGQL
1418	NP_001036041.1	605	MEALATAEQACKEKLHSLTQA
1419	NP_001036041.1	624	QAKEESEKQLCLIEAQTMEAL
1420	NP_001036041.1	695	EETQSTLQAECDQYRSILAET
1421	NP_001036041.1	783	EKHMAAASAECQNYAKEVAGL
1422	NP_001036143.1	83	SYPDTDVILMCFSIDSPDSLE
1423	NP_001036143.1	107	EKWTPEVKHFPCPNVPIILVGN
1424	NP_001036143.1	159	NRISAFGYLECSAKTKEGVRE
1425	NP_001036143.1	190	QVRKNKRRRGCPILXXXXXXXX
1426	NP_001036816.1	154	EERAELAESKCELEELKNV
1427	NP_001036816.1	233	KLKCTKEEHLCTQRMLDQTL
1428	NP_001041659.1	44	VPGARSCQGACGSPDPQKTR
1429	NP_001041659.1	112	QAEAGGMHTVCLSKSGQVYSF
1430	NP_001041659.1	229	TADGDLYTLGCGEQQLGRVP
1431	NP_001041659.1	259	QGLERLLVPKCVMLKSRGSRG
1432	NP_001041659.1	278	RGHVRFQDAFCGAYFTFAISH
1433	NP_001041659.1	311	HQLGTPGTESCFIPQNLTSFK
1434	NP_001041659.1	339	GFSGGQHHTVCMDSGKAYSL
1435	NP_001041659.1	383	SRLPAVSSVACGASVGYAVTK
1436	NP_001060.1	12	REIVHIQAGQCGNQIGAKFWE
1437	NP_001060.1	127	LDVVRKESESCDCLQGFQLTH
1438	NP_001060.1	129	VVRKESESCDCLQGFQLTHSL
1439	NP_001060.1	211	SIDNEALYDICFRTLKLTPT
1440	NP_001070962.1	83	GRKTYPTVKICNYEGPAKIEV
1441	NP_001070962.1	114	AHAHSLVGKQCSELGICAVSV
1442	NP_001070962.1	120	VGKQCSELGICAVSVGPKDMT
1443	NP_001070962.1	250	VRGGDEVYLLCDKVQKDDIEV
1444	NP_001070962.1	397	PYQSGAGPMGCPYGGGGGAQM

1445	NP_001070962.1	432	EPSAPSRTPQCEPQAPPEMLQR
1446	NP_001070962.1	615	HLAVRARSPECLDLLVDSGAE
1447	NP_001070962.1	703	DIHAENEELCPLPSPPTS
1448	NP_001070962.1	738	FRGHTPLDLTCSTKVKTLN
1449	NP_001070962.1	891	GPPPEPPGGLCHGHPQPQVHX
1450	NP_001072113.1	46	EPQDIYWLAQCLYLTAQYHRA
1451	NP_001072113.1	72	SRKLDKLYEACRYLAARCHYA
1452	NP_001072113.1	79	YEACRYLAARCHYAAKEHQQA
1453	NP_001072113.1	133	MSQSSIKSSICLLRGIYDAL
1454	NP_001072113.1	163	YKEALKLDVYCFEAFDLLTSH
1455	NP_001072113.1	245	VSLAERHYNCDFKMCYKLT
1456	NP_001072113.1	250	RHYNCDFKMCYKLTSVVMEK
1457	NP_001072113.1	267	VMEKDPFHASCLPVHIGTLVE
1458	NP_001072113.1	307	SNPVSWFVAVGCYYLVMGHKNE
1459	NP_001072113.1	367	YFTAAQLMKGCHLPLMYIGLE
1460	NP_001072113.1	455	EPLLNHLGHVCRKLLKYAEAL
1461	NP_001072113.1	522	DTFSVTMLGHCIEMYIGDSEA
1462	NP_001072113.1	544	IGADIKDKLKCYDFDVHTMKT
1463	NP_001072989.1	303	TMMFSEDEALCVVDLLKESG
1464	NP_001072989.1	355	KEDAAATKDRCKQLTQEMMTE
1465	NP_001072989.1	736	NKDVVVEQMEKCIQEKDEKLT
1466	NP_001072992.1	63	KAAISNKITSCIFQLLQEAGI
1467	NP_001072992.1	81	AGIKTAFTRKCGETAFIAPQC
1468	NP_001072992.1	91	CGETAFIAPQCEMIPIEWVCR
1469	NP_001072992.1	100	QCEMIPIEWVCRRIATGSFLK
1470	NP_001072992.1	151	SEEQLIAAKFCFAGLLIGQTE
1471	NP_001072992.1	185	ILEKSWLPQNCTLVDMKIEFG
1472	NP_001072992.1	266	VELLLKSESQCRVVLMGSTS
1473	NP_001072992.1	281	LMGSTSDLGHCEKIKKACGNF
1474	NP_001072992.1	295	KKACGNFGIPCELRVTSAHKG
1475	NP_001072992.1	350	SGNTAYPVI SCPPLTPDWGVQ
1476	NP_001072992.1	374	SSLRLPSGLGCSTVLSPEGSA
1477	NP_001073027.1	293	STYGVTKGKVCFEAKVTQNL
1478	NP_001073027.1	363	QTFGENDVIGCFANFETEEVE
1479	NP_001073027.1	405	ADRALLPHVLCCKNCVVELNFG
1480	NP_001073027.1	408	ALLPHVLCCKNCVVELNFGQKE
1481	NP_001073027.1	452	TAVPPKTI ECEVILMVGLPG
1482	NP_001073027.1	518	RDLLVQQASQCLSCLVQIASR
1483	NP_001073027.1	538	RTKRNFILDQCNVYNSGQRRK
1484	NP_001073027.1	602	MKANFSLPEKCDYMDVITYGE
1485	NP_001073860.1	16	GDLSTRRLNECISPVANEMNH
1486	NP_001073860.1	96	NKMFEDSQDSCRNLVPVQRVV
1487	NP_001073860.1	209	PPENGLSEHPCETEQINAKRK
1488	NP_001073860.1	238	SLGSQQTNEQCAQKAEPTESE
1489	NP_001073860.1	248	CAQKAEPTESEQIAVQVNNNG
1490	NP_001073860.1	266	NNGDAGREMPCLPCDEESPE
1491	NP_001073860.1	270	AGREMPCLPCDEESPEAELH
1492	NP_001073860.1	289	LHNHG IQINSCSVRLVDIKKE
1493	NP_001073860.1	373	NDEKEGQEATCSRPIVPEPM
1494	NP_001073860.1	468	LSNGEELQETCSSLRRGSGS
1495	NP_001073860.1	488	SQPQEPENKKCSCVMCFPKGV
1496	NP_001073860.1	490	PQEPENKKCSCVMCFPKGVPR
1497	NP_001073860.1	493	PENKKCSCVMCFPKGVPRSQE
1498	NP_001073860.1	609	NFKQSELPVTCGEVKGTLYKE
1499	NP_001073860.1	629	ERFKQGTSKKCIQSEDKKWFT
1500	NP_001073860.1	661	ASKNWKLSIRCGGYTLKVLME
1501	NP_001073860.1	698	ESHNNTLVDP CPENS NICEVC
1502	NP_001073860.1	705	VDPCPENS NICEVCNKWGRLF
1503	NP_001073860.1	708	CPENS NICEVCNKWGRLFCCD
1504	NP_001073860.1	716	EVCNKWGRLFCCDTCPRSFHE
1505	NP_001073860.1	717	VCNKWGRLFCCDTCPRSFHEH
1506	NP_001073860.1	720	KWGRLFCCDTCPRSFHEHCHI
1507	NP_001073860.1	728	DTCPRSFHEHCHIPSVEANKN
1508	NP_001073860.1	742	SVEANKNPWSCIFCRIKTIQE
1509	NP_001073860.1	745	ANKNPWSCIFCRIKTIQERCP
1510	NP_001073860.1	754	FCRIKTIQERCPESQSGHQES
1511	NP_001073860.1	779	RQMLPEEQKCEFLLLKVYCD
1512	NP_001073860.1	788	KCEFLLLKVYCD SKSCFFASE
1513	NP_001073860.1	793	LLKVYCD SKSCFFASEPYNR
1514	NP_001073867.1	47	PHQNWAVGRCGAGARPGLSQ
1515	NP_001073867.1	155	ARPRAAGDWPCARGGAVRPGR
1516	NP_001073867.1	288	GYPRLPVEKQCELAPTLTAM
1517	NP_001073867.1	415	NPWTPEQLEQCKLGIVKFI EA
1518	NP_001073867.1	555	TLSQLFVHHICITCPEIKIKP
1519	NP_001073867.1	558	LQFVHHICITCPEIKIKPLGP
1520	NP_001073867.1	621	ALVQQLFEALCKEEPETRLAI

1521	NP_001073867.1	712	VHGAEQRVLRCLPGRNRKEST
1522	NP_001073867.1	774	FGEIVLYLRMCLAHSAGVVPT
1523	NP_001073867.1	847	AGVGGLPVMYCLLEAVSVYPE
1524	NP_001073867.1	986	STSPLLAIAACTALGEIGRNG
1525	NP_001073867.1	1135	SPNPHVRQAACIWLLSLVRKL
1526	NP_001073867.1	1242	GQGLSTYKELCSLASDLSQPD
1527	NP_001073867.1	1355	SNMWRVRESSCLALNDLLRGR
1528	NP_001073867.1	1407	ELALKTLSKVCVKMCDPAKGA
1529	NP_001073867.1	1411	KTLSKVCVKMCDPAKGAAGQR
1530	NP_001073867.1	1429	GQRTIAALLPCLLDKGMSTV
1531	NP_001073867.1	1519	SSPMMETINMCLQYLDVSVLG
1532	NP_001073867.1	1551	SGVGLGTKGGCASVIVSLTQ
1533	NP_001073867.1	1562	ASVIVSLTTQCPQDLTPYSGK
1534	NP_001073867.1	1592	TDNRSVIQKSCAFAMGHLVRT
1535	NP_001073867.1	1631	EKEEPYKTSALTIIHAIGRY
1536	NP_001073867.1	1675	ADEEKSEKEECNLWTEVWQEN
1537	NP_001073867.1	1771	LKAIACVVTTACSAELEKSVPN
1538	NP_001073867.1	1796	NEILQAVLKECKSKENVKYKIV
1539	NP_001073867.1	1810	NVKYKIVAISSAADILKATKE
1540	NP_001073867.1	1884	AWPRNAETQRCYRQELCKLMC
1541	NP_001073867.1	1890	ETQRCYRQELCKLMCERLKL
1542	NP_001073867.1	1894	CYRQELCKLMCERLKLSTWKV
1543	NP_001073867.1	1940	EALAEILLETCKSITYSLENK
1544	NP_001073867.1	1978	KKLEESKQWECLTSECRVLLI
1545	NP_001073867.1	1983	SKQWECLTSECRVLLIESLAT
1546	NP_001073884.1	291	INPQMNEEMLCQEFGRFGPLA
1547	NP_001073884.1	320	TDEERARERNCGFVAFMNRD
1548	NP_001073884.1	563	KNDIGDAMVFCLNNAEAAEEI
1549	NP_001073884.1	576	NAEAAEEIVDCITESLSILKT
1550	NP_001073884.1	624	YYRKFETKLCQIFSDLNATY
1551	NP_001073884.1	653	SENFQQRVMTFCRAWEDWAIY
1552	NP_001073884.1	918	RSKDKKEKDECTPTRKERKRR
1553	NP_001075109.1	10	XMAGSGAGVRCSSLRLQETLS
1554	NP_001075109.1	25	LQETLSAADRCGAALAGHQLI
1555	NP_001075109.1	42	HQLIRGLGQECVLSPPAVLA
1556	NP_001075109.1	81	KSLNSTEFRECREEILKFLCI
1557	NP_001075109.1	90	ECREEILKFLCIFLEKMGQKI
1558	NP_001075109.1	111	APYSVEIKNTCTSVYTKDRAA
1559	NP_001075109.1	123	SVYTKDRAACKIPALDLLIK
1560	NP_001075109.1	232	GCLKGLSSLLCNFTKSMEEDP
1561	NP_001075109.1	285	FALHASQFSTCLLDNYVSLFE
1562	NP_001075109.1	301	VSLFEVLLKWCACHTNVELKKA
1563	NP_001075109.1	373	IRGYGLFAGPCKVINAKDVDF
1564	NP_001075109.1	392	DFMYVELIQRCQMFLOTQDT
1565	NP_001075109.1	457	PQYSPKMLVCCRAIVKVFLLA
1566	NP_001075109.1	458	QYSPKMLVCCRAIVKVFLLAL
1567	NP_001075109.1	478	LAAGPVLKNCISTVVHQLI
1568	NP_001075109.1	630	FSAFINLVEFCREILPEKQAE
1569	NP_001075109.1	703	HSPEDPEKYSCFALFVKFGKE
1570	NP_001075109.1	729	KQYKDELLASCLTFLSLPHN
1571	NP_001075109.1	795	MQPYYKDILPCLDGYLKTSAL
1572	NP_001075109.1	931	ASDRQTKVAACELLHSMVMFM
1573	NP_001075109.1	974	RTFPVLLRLACDQVTRQLY
1574	NP_001075109.1	1029	DPVDSTLRDFCGRCIREFLKW
1575	NP_001075109.1	1032	DSTLRDFCGRCIREFLKWSIK
1576	NP_001075109.1	1127	DEKSLGTIQCCDAIDHLCRI
1577	NP_001075109.1	1128	EKSLGTIQCCDAIDHLCRII
1578	NP_001075109.1	1135	QQCCDAIDHLCRIIEKKHVSL
1579	NP_001075109.1	1164	PRGFPPSASLCLLDLVKWLLA
1580	NP_001075109.1	1176	LDLVKWLLAHCGRPQTECRHK
1581	NP_001075109.1	1183	LAHCGRPQTECRHKSIELFYK
1582	NP_001075109.1	1229	FLINTFEGGGCGQPSGILAQP
1583	NP_001075109.1	1255	RGPFSLQATLCWLDLLLALE
1584	NP_001075109.1	1266	WLDLLLALECYNTFIGERTV
1585	NP_001075109.1	1312	AMHDI IAAEKCFGTGAAGNRT
1586	NP_001075109.1	1335	QEGERYNYSKCTVVVRIMEFT
1587	NP_001075109.1	1364	EGWKLKDKDLNTHLMRVLVQ
1588	NP_001075109.1	1377	HLMRVLVQTLCEPASIGFNIG
1589	NP_001075109.1	1399	VQVMAHLPDVCVNLKALKMS
1590	NP_001075109.1	1432	KITAQSIIEELCAVNLYGPDQA
1591	NP_001075109.1	1455	RSRLAAVVSACKQLHRAGLLH
1592	NP_001075109.1	1507	RQCLPSLDLSCKQLASGLLEL
1593	NP_001075109.1	1525	LELAFAFGGLCERLVSLLLNP
1594	NP_001075109.1	1629	ATTILQHKKKCDSSWWAKDSPL
1595	NP_001075109.1	1742	GTPRFNNYVDCMKKFLDALEL
1596	NP_001075109.1	1767	MLELMTEVLCREQQHVMEEL

1597	NP_001075109.1	1791	SFRRIARRGSCVTQVGLLESV
1598	NP_001075109.1	1831	DRSLTLLWHCSLDALREFFS
1599	NP_001075109.1	1919	NELTKTLIKLCYDAFTENMAG
1600	NP_001075109.1	1942	QLLERRRLYHCAAYNCAISVI
1601	NP_001075109.1	1947	RRLYHCAAYNCAISVICCVFN
1602	NP_001075109.1	1953	AAYNCAISVICCVFNLKIFYQ
1603	NP_001075109.1	1954	AYNCAISVICCVFNLKIFYQG
1604	NP_001075109.1	2093	LEMDELNRHECMAPLTALVKH
1605	NP_001075109.1	2244	NLEI IKTLVECWKDCLSIPYR
1606	NP_001075109.1	2248	IKTLVECWKDCLSIPYRLIFE
1607	NP_001075109.1	2292	ANDLPPYDPQCGIQSSEYFQA
1608	NP_001075109.1	2363	QNTMEDKFIVCLNKVTKSFPP
1609	NP_001075109.1	2397	PKFHGVLKTLCLLEVLCRVEG
1610	NP_001075109.1	2403	LKTLCLLEVLCRVEGMTELYF
1611	NP_001075109.1	2469	VEFVSHPSTTCREQMYNILMW
1612	NP_001075109.1	2584	NPMFEHPLSECECFQEYTI DSD
1613	NP_001075109.1	2857	TFSFFPPFVSCIQDISCQHAA
1614	NP_001075109.1	2863	PFVSCIQDISCQHAALLSLDP
1615	NP_001075109.1	2880	SLDPAAVSAGCLASLQQVGI
1616	NP_001075109.1	3001	KDFWELASLDCYNHLAEWKS
1617	NP_001075109.1	3014	HLAEWKSLEYCSTASIDSENP
1618	NP_001075109.1	3187	NIWDDIITNRCFFLSKIEEKL
1619	NP_001075109.1	3234	EEDISSLIRSCKFSMKMKMID
1620	NP_001075109.1	3281	DWLVSQVSYCRLSHCRSRSQ
1621	NP_001075109.1	3286	WVQSYCRLSHCRSRSQGCSEQ
1622	NP_001075109.1	3293	LSHCRSRSQGCSEQVLTVLKT
1623	NP_001075109.1	3347	IANALSSEPACLAIEEEDKAR
1624	NP_001075109.1	3403	EEEAQPPSWSCGPAAGVIDAY
1625	NP_001075109.1	3420	IDAYMTLADFCDQQLRKEEN
1626	NP_001075109.1	3492	LMTKEISSVPCWQFISWISHM
1627	NP_001075109.1	3683	DSKPPGNLKECSPWMSDFKVE
1628	NP_001075109.1	3781	MNGILAQDSACSQRALQLRTY
1629	NP_001075109.1	3806	MTSSDPRAPPCEYKDWLTKMS
1630	NP_001075109.1	3881	SHFASSHALICISHWILGIGD
1631	NP_001075109.1	4014	EKNWYPRQKICYAKRKL LAGAN
1632	NP_001075109.1	4030	LAGANPAVITCDELLLGHEKA
1633	NP_001075109.1	4075	SGLSEETQVKCLMDQATDPNI
1634	NP_001076581.2	84	VIGGGATGSGCALDAVTRGLK
1635	NP_001076581.2	188	KLYDLVAGSNCLKSSVLSKS
1636	NP_001076581.2	270	TGKVRVSGARCKDVL TGQEFD
1637	NP_001076581.2	285	TGQEFDVRAKCVINATGPF TD
1638	NP_001076581.2	309	KMDDKDAAAICQPSAGVHIVM
1639	NP_001076581.2	546	EVKYGIKEYACTAVDMI SRRT
1640	NP_001091678.1	22	VVKLRGLPWSCSVEDVQNF LS
1641	NP_001091678.1	34	VEDVQNF LSDCTIHDGAAGVH
1642	NP_001091678.1	290	EFTVQSTTGHCVHMRGLPYKA
1643	NP_001091678.1	400	SGLESQSVSGCYGAGYSGQNS
1644	NP_001091742.1	12	PGSLPLNAEACWPKDVGIVAL
1645	NP_001091742.1	59	IGLGQAKMGFCTDREDINSLC
1646	NP_001091742.1	69	CTDREDINSLCMTVVQNLMER
1647	NP_001091742.1	86	LMERNNLSYDCIGRLEVGTET
1648	NP_001091742.1	129	DI EGIDTTNACYGGTAAVFNA
1649	NP_001091742.1	224	PIVDGKLSIQCYLSALDR CYS
1650	NP_001091742.1	232	IQCYLSALDR CYSVYCKIHA
1651	NP_001091742.1	237	SALDR CYSVYCKIHAQWQKE
1652	NP_001091742.1	268	FGFMIFHSPYCKLVQKSLARM
1653	NP_001091873.1	30	LNEERLKGQLCDVLLIVGDQK
1654	NP_001091873.1	75	ESQTVFQLDFCEPDAFDNVLN
1655	NP_001091873.1	152	NSSQKRSVIVCQRNEAQGKT
1656	NP_001091873.1	378	VSSDAPGNVLCALSQKSSLKD
1657	NP_001091873.1	389	ALSQKSSLKDCSEKTALDDRP
1658	NP_001091873.1	543	EFEQGSHERLCR NAAVCPYCS
1659	NP_001091873.1	549	HERLCR NAAVCPYCSLRFFSP
1660	NP_001091873.1	552	LCR NAAVCPYCSLRFFSP ELK
1661	NP_001091873.1	569	PELKQEHESKCEYK KLTCLEC
1662	NP_001091873.1	576	ESKCEYK KLTCLECMRTFKSS
1663	NP_001091873.1	579	CEYK KLTCLECMRTFKSSFSI
1664	NP_001091873.1	662	QVNFDSSEDSSCLPEDLSLSKQ
1665	NP_001091873.1	710	GPSKEASLWPCEKCGKMFVH
1666	NP_001091873.1	713	KEASLWPCEKCGKMFVHKQL
1667	NP_001091873.1	731	KQLERHQELLCSVKPFICHVC
1668	NP_001091873.1	738	ELLCSVKPFICHVCNKAFRTN
1669	NP_001091873.1	741	CSVKPFICHVCNKAFRTNFRL
1670	NP_001091873.1	774	EESAHK ESEVCPVPTNSPSP
1671	NP_001091873.1	844	SAITFKRQFMCKLCHR TFKTA
1672	NP_001091873.1	847	TFKRQFMCKLCHR TFKTAFSL

1673	NP_001092.1	272	FQPSFLGMESCGIHETTFNSI
1674	NP_001093869.1	14	TAQPKPATALCGVVSADGKIA
1675	NP_001093869.1	92	PNKDVRLLVACCLADIFRIYA
1676	NP_001093869.1	93	NKDVRLLVACCLADIFRIYAP
1677	NP_001093869.1	154	NLAWVKSYNICFELEDCNEIF
1678	NP_001093869.1	160	SYNICFELEDCNEIFIQLFRT
1679	NP_001093869.1	242	LKRTVQTEACIANFFNQVLV
1680	NP_001093869.1	327	LATQNRPLWQCFLGRFNDIHV
1681	NP_001093869.1	350	RLESVKFASHCLMNHDPDLAKD
1682	NP_001093869.1	430	MGLAQLYKKYCLHGEGKEAA
1683	NP_001093869.1	486	HNLETEERMKCLYLYASLDP
1684	NP_001093869.1	508	AVKALNEMWKCQNMLRSHVRE
1685	NP_001093869.1	581	SQLELLISPTCSCKQADICVR
1686	NP_001093869.1	583	LELLISPTCSCKQADICVREI
1687	NP_001093869.1	589	PTCSCKQADICVREIARKLAN
1688	NP_001093869.1	686	SAETYESLLQCLRMEDDKVAE
1689	NP_001093869.1	742	TPHQAKQAVHCIHAIFTNKEV
1690	NP_001093869.1	904	SAIMKLAQEPYHEIITPEQF
1691	NP_001093869.1	917	EIITPEQFQLCALVINDECYQ
1692	NP_001093869.1	925	QLCALVINDECYQVRQIFAQK
1693	NP_001093869.1	956	PLEYMAIFALCAKDPVKERRA
1694	NP_001093869.1	971	VKERRAHARQCLLNISIRRE
1695	NP_001093869.1	1030	DVDQLRDIKECLWFMLEVLMT
1696	NP_001093869.1	1079	SKTNEKLYTVCDVALCVINSK
1697	NP_001093869.1	1084	KLYTVCDVALCVINSKALCN
1698	NP_001093869.1	1093	LCVINSKALCNADSPKDPVL
1699	NP_001093869.1	1116	KFFTQPEKDFCNDKSYISEET
1700	NP_001094073.1	70	NTSMKVIYLACSYATVYLIYL
1701	NP_001094073.1	126	LEYSRERSVCQHKCQRPSPA
1702	NP_001094073.1	130	RERSVCQHKCQRPSPASVLQ
1703	NP_001094073.1	174	SFVADSHQWLCKNAEEKSQKV
1704	NP_001099000.1	356	ELKQVAYIYKCVNTTLQIKGK
1705	NP_001099000.1	375	GKINSITVDNCKKGLVFDVV
1706	NP_001099000.1	416	PTISINKTDGCHAYLSKNSLD
1707	NP_001099000.1	427	HAYLSKNSLDCEIVSAKSSEM
1708	NP_001099008.1	91	LGVGRETARPCYSLALAQLLQ
1709	NP_001099008.1	109	LLQSFEDLPLCSILQQIQEKY
1710	NP_001099008.1	305	KMQFWPASYLCFRLLGAALPL
1711	NP_001099008.1	338	DVIRHYGEHVCTAKLPKQFKF
1712	NP_001099008.1	363	DDYVGTFFLEGQDDPERQLAV
1713	NP_001099008.1	479	EALTEQVARFCLFHSPFVTKK
1714	NP_001099008.1	623	SCDLLGDIQTCIRKSLGKPR
1715	NP_001099008.1	678	QVARSVFGHICSHLTPRALQL
1716	NP_001099008.1	884	KTARIFTHHLCRARRYCHDLG
1717	NP_001099008.1	890	THHLCRARRYCHDLGERAGAL
1718	NP_001099008.1	942	RVLKGNTAEGCVHETQEKQKA
1719	NP_001099008.1	968	HMPGTGQAASCLDLNLVTRVY
1720	NP_001099008.1	1009	LSLFSRHPVLCQSLPILVQH
1721	NP_001099008.1	1031	TGPVVRPRHQACLLQKTLMSR
1722	NP_001099008.1	1046	KTLMSREVRSCFEDPEWKQLM
1723	NP_001099008.1	1096	LELLNVLFRTCKHEKLTLDLT
1724	NP_001104490.1	184	VKDPNLWTVKCKIGEERATAI
1725	NP_001104490.1	429	NFQPGDNVEVCEGELINLQGK
1726	NP_001104490.1	521	LKVLPRDLQLCSETASGVDVG
1727	NP_001104490.1	626	HLFRSFAPFLHCKKLVENGGMF
1728	NP_001104490.1	638	KLVENGGMFVCKTRHLVLAGG
1729	NP_001104490.1	1012	GVIRSVTGGMCSVYLKDEKVV
1730	NP_001106963.1	375	GFGDHINNENCWQPIMKFIND
1731	NP_001106963.1	410	KKRIPDTRVHCCLYFIPATGH
1732	NP_001106963.1	411	KRIPDTRVHCCLYFIPATGHS
1733	NP_001106963.1	531	GTIEVENTHCEFAYLRDLII
1734	NP_001112362.1	8	XXXMAQEFVNCKIQPGKVVVF
1735	NP_001112362.1	23	GKVVVFIKPTCPYCRAQEIL
1736	NP_001112362.1	26	VVFIKPTCPYCRAQEILSQL
1737	NP_001112362.1	83	VFIGKDCIGCSDLVSLQQSG
1738	NP_001116295.1	26	VELRRERRMVCVEYPGVVRDV
1739	NP_001116295.1	75	RPKDPYCHPVCANRFSTSSLL
1740	NP_001116295.1	242	EAAAQTWRRVCTNPVDRKVEE
1741	NP_001116295.1	325	IYQVLDFRIRCGMKHGYAPSD
1742	NP_001116295.1	418	PPYRQMFYQLCDLNVEELQKI
1743	NP_001116295.1	439	IHRNDGAENSCTERDGCWCLPK
1744	NP_001116295.1	446	ENSCTERDGCWCLPKTDELDR
1745	NP_001116849.1	46	AGLAGKDPVQCSRVDVICPDA
1746	NP_001116849.1	106	ENRKGLIAAICAGPTALLAHE
1747	NP_001119601.1	72	QGFALLPRLECSGVIWLTAAAL
1748	NP_001120662.1	14	IQAAWPSGTECIAKYNFHGTA

1749	NP_001120662.1	31	HGTAEQDLPFCKGDVLTIVAV
1750	NP_001120662.1	119	STNYPGDYTLCVSCDGKVEHY
1751	NP_001120662.1	122	YPGDYTLCVSCDGKVEHYRIM
1752	NP_001120662.1	164	EHYTSDADGLCTRLIKPKVME
1753	NP_001120662.1	223	DYRGNKVAVKCIKNDATAQAF
1754	NP_001120662.1	299	DCLLKFSLDVCEAMEYLEGNN
1755	NP_001120662.1	411	KGYKMDAPDGCPPAVYEVMMKN
1756	NP_001120662.1	422	PPAVYEVMMKNCWHLDAAMRPS
1757	NP_001120676.1	127	FGENWEEQVQCPKAAQKYVER
1758	NP_001121089.1	73	LLTADDRVNPCIGGVILFHET
1759	NP_001121089.1	135	TQGLDGLSERCAQYKKGADF
1760	NP_001121089.1	150	KDGADFAKWRVCVLKIGEHTPS
1761	NP_001121089.1	178	ANVLARYASICQONGIVPIVE
1762	NP_001121089.1	240	KPNMVTDPGHACTQKFSHEEIA
1763	NP_001121089.1	290	ASINLNAINKCPLLKPWALTF
1764	NP_001121631.1	242	GGPSNVLRDAACLVANILDPRI
1765	NP_001121631.1	311	KYGRMFPREWCMATERIAVEFC
1766	NP_001121631.1	321	CMAERIAVEFCHVTRAELEKI
1767	NP_001121631.1	424	DNPFHGIVSKCFEPHLYVYIE
1768	NP_001121631.1	471	TDEGGAVLPSCADLFVYYKKC
1769	NP_001121631.1	481	CADLFVYYKCMVQCSQLSTG
1770	NP_001121631.1	485	FVYYKCMVQCSQLSTGEPMI
1771	NP_001121631.1	550	EVAKFTLEELCLICNILSTAE
1772	NP_001121631.1	553	KFTLEELCLICNILSTAEYCL
1773	NP_001121631.1	562	ICNILSTAEYCLATTQLEEK
1774	NP_001121631.1	613	QLLVQDLDAACDPALTAMSKM
1775	NP_001121631.1	667	ASTRKYFTQFCVKFANSFIPK
1776	NP_001121631.1	685	IPKFTIHLFKCKPISMVGAEQ
1777	NP_001121631.1	764	VDNYIKLLTDCNTETFQKILD
1778	NP_001121689.1	373	LKIDNLDVNRCEALDELASL
1779	NP_001121901.1	106	SDSEDVVSFNCSNTVQEKTFN
1780	NP_001121901.1	407	SIGELTLIPQCSQKKAQKITE
1781	NP_001121901.1	445	NGLSEDLIWHCKTLIQRDVV
1782	NP_001121901.1	462	RDVVIRLMNKCEDISNKLTQK
1783	NP_001121901.1	568	DNWLREVNLCPTLKVLCYYG
1784	NP_001121901.1	575	NLWCPTLKVLCYYGSEERKQ
1785	NP_001121901.1	606	DYNVIVTTYNCAISSDDRSL
1786	NP_001121901.1	741	LPPKKDRIELCAMSEKQEQLY
1787	NP_001121901.1	774	NLVTEKNTEMCNVMMQLRKMA
1788	NP_001121901.1	813	SQLMLKEPTHECANPDLIFED
1789	NP_001121901.1	836	VMTDFELHVLCKQYRHINNFO
1790	NP_001121901.1	953	ANVVILHDIDCNPYNDKQAE
1791	NP_001121901.1	965	PYNDKQAEEDRCHRVGQTKEV
1792	NP_001122388.1	86	CLPNPGTFEECHRKCKELFPI
1793	NP_001122388.1	90	PGTFEECHRKCKELFPIQMEG
1794	NP_001122388.1	228	VAHYLQSITPCLALGGELVYH
1795	NP_001122388.1	354	FLNHRKNKFQCGFGLTIGXXX
1796	NP_001123477.1	41	KQQRKTFATWCNSHLRQAGTQ
1797	NP_001123477.1	154	TSAKEGLLLWCQRKTAPYKNV
1798	NP_001123477.1	180	HISWKDGLGFCALIHHRHPEL
1799	NP_001123477.1	263	QKAETAANRICKVLAVNQENE
1800	NP_001123477.1	476	YYDPSVNRARCQKICDQWDL
1801	NP_001123477.1	774	GMMDTDDFRACLISMGYNMGE
1802	NP_001123477.1	855	RELPPDQAEYCIARMAPYTG
1803	NP_001123579.1	55	ILQSLLETCLKKDDSENLV
1804	NP_001123579.1	114	QKLRQVRRLCQENQWLRDEL
1805	NP_001123579.1	236	QGRYEVAVPLCKQALEDELEKT
1806	NP_001123579.1	349	AKQLNLLALLCQNGKYEEVE
1807	NP_001123579.1	390	VAKTKNNLASCYLKQKFKQA
1808	NP_001123579.1	436	IWMHAEERECKGKQKDGTSF
1809	NP_001123579.1	456	FGEYGGWYKACKVDSPTVTTT
1810	NP_001124000.1	689	DEKDTSMKLLWCAVGNLSSGGK
1811	NP_001124000.1	761	QEELSSLVWICTSTHSATKVL
1812	NP_001124000.1	788	PGNILDSTFVCSNSHVLCIASV
1813	NP_001124000.1	794	SFTVCSNSHVLCIASVPGARET
1814	NP_001124000.1	824	ESGQVDKASLCGSMTSNSSAE
1815	NP_001124000.1	847	SLLGGITVVGCSAEGVTGAAT
1816	NP_001124000.1	980	PTMWLGAQNGCLYVHSSVAQW
1817	NP_001124000.1	993	VHSSVAQWRKCLHSIKLKDSI
1818	NP_001124000.1	1052	DLGRPHHSIRCMTVVHDKVWC
1819	NP_001124000.1	1062	CMTVVHDKVWCGYRNKIYVVQ
1820	NP_001124000.1	1155	FVRI TALMVSCNRLWVGTFNG
1821	NP_001124000.1	1210	KVTPGTFIPYCSMAHAQLCFH
1822	NP_001124000.1	1218	PYCSMAHAQLCFHGRDAVKF
1823	NP_001124295.1	41	LERDSLTEKECVKEKLNLLHE
1824	NP_001124295.1	62	FLQTEIKNQLCDLETKLRKEE

1825	NP_001124295.1	369	VMNSKTHPPKCIQCGQYLDDP
1826	NP_001124295.1	372	SKTHPPKCIQCGQYLDDPDLK
1827	NP_001124295.1	425	YEALPQHKLTCFSVYCKHGHL
1828	NP_001124295.1	430	QHKLTCFSVYCKHGHLCPIDT
1829	NP_001124295.1	436	FSVYCKHGHLCPIDTGLIEKN
1830	NP_001124295.1	596	SDEQPIFLTPCMRDLIKLAGV
1831	NP_001124295.1	669	DKENAFKRRRCGVCEVCQQPE
1832	NP_001124295.1	672	NAFKRRRCGVCEVCQQPECGK
1833	NP_001124295.1	675	KRRRCGVCEVCQQPECGKCKA
1834	NP_001124295.1	680	GVCEVCQQPECGKCKACKDMV
1835	NP_001124295.1	683	EVCQQPECGKCKACKDMVKFG
1836	NP_001124295.1	686	QQPECGKCKACKDMVKFGSG
1837	NP_001124295.1	702	FGGSGRSKQACQERRCPNMAM
1838	NP_001124295.1	707	RSKQACQERRCPNMAMKEADD
1839	NP_001124295.1	767	DGKKSYYKKVCIDAETLEVGD
1840	NP_001124295.1	778	IDAETLEVGDVSVIPDDSSK
1841	NP_001124295.1	814	NGQMFHAHWFCAGTDTVLGAT
1842	NP_001124295.1	836	DPLELFLVDECEDMQLSYIHS
1843	NP_001124295.1	909	QPTEDNKFKFCVSCARLAEMR
1844	NP_001124295.1	912	EDNKFKFCVSCARLAEMRQKE
1845	NP_001124295.1	1017	YRIGRIKEIFCPKKSNGRPNE
1846	NP_001124295.1	1076	VVDFKAVQGRCTVEYGEDLPE
1847	NP_001124295.1	1087	TVEYGEDLPECVQVYSMGGPN
1848	NP_001124295.1	1164	KLRTLDFVSGCGGLSEGFHQ
1849	NP_001124295.1	1207	NPGSTVFTEDCNILKLVLMAG
1850	NP_001124295.1	1237	LPQKGDVEMLCGGPPCQGFSG
1851	NP_001124295.1	1242	DVEMLCGGPPCQGFSGMNRFN
1852	NP_001124295.1	1271	NSLVVSFLSYCDYRPRFFLL
1853	NP_001124295.1	1302	RSMVLKLTLRCLVRMGYQCTF
1854	NP_001124295.1	1310	LRCLVRMGYQCTFGVLQAGQY
1855	NP_001124295.1	1430	QYQPILRDHICKDMSALVAAR
1856	NP_001124295.1	1492	RSSSGALRGVCSCEVAGKACD
1857	NP_001124295.1	1494	SSGALRGVCSCEVAGKACDPA
1858	NP_001124295.1	1515	ARQFNLTLPWCLPHTGNRHNH
1859	NP_001124295.1	1569	EQHRVSVRECARSQGFPTY
1860	NP_001124295.1	1611	AKAIGLEIKLCMLAKARESAS
1861	NP_001124384.1	49	EQKPDDAQYYCQRAYCHILLG
1862	NP_001124384.1	54	DAQYYCQRAYCHILLGNVCVA
1863	NP_001124384.1	88	NSTAMLRKGICEYHEKNYAAA
1864	NP_001124384.1	154	DANFSVWIKRCQEAQNGESE
1865	NP_001124487.1	234	DTPEDQLPPCPEDIAKEKRT
1866	NP_001124487.1	430	PEQTPVVVHVCGLEMPDAVE
1867	NP_001124487.1	468	SMEEIQNESACGLDVGECENR
1868	NP_001124487.1	475	ESACGLDVGECENRAREMPGV
1869	NP_001124487.1	539	TPSKQALQFFCYICKASCSSQ
1870	NP_001124487.1	542	KQALQFFCYICKASCSSQEF
1871	NP_001124487.1	546	QFFCYICKASCSSQEFQDHM
1872	NP_001124487.1	575	LGEIQHMSQACLLSLLPVPRD
1873	NP_001124487.1	600	EDEPPRRWCNTCQLYYMGD
1874	NP_001124487.1	603	EPPRRWCNTCQLYYMGDLIQ
1875	NP_001124487.1	631	KIAKQSLRPFCTVCNRYFKTP
1876	NP_001124487.1	634	KQSLRPFCTVCNRYFKTPRKF
1877	NP_001124487.1	683	DHFTITVDAVGCFFGDEEEED
1878	NP_001124487.1	707	EEEIEVEEELCKQVRSRDISR
1879	NP_001124487.1	745	DFLVPVMGYICRICHKFYHSN
1880	NP_001124487.1	748	VPVMGYICRICHKFYHSNSGA
1881	NP_001124487.1	763	HSNSGAQLSHCKSLGHFENLQ
1882	NP_001124487.1	792	SPTTRPVSRRCAINARNALTA
1883	NP_001127836.1	126	SQNPEDTNFCFQPEQVVDPI
1884	NP_001127836.1	181	PLKDSYGMSPCNTAVVPQGWS
1885	NP_001127836.1	1008	KVSYSHIQSKCGSKDNIKHPV
1886	NP_001128717.1	567	PALKIPQTKACPKKTNNTASA
1887	NP_001128717.1	1222	TLALQSNITQCLLGQPWPLNE
1888	NP_001129064.1	121	NGKISRLRRECPSECEGAGVF
1889	NP_001129064.1	126	RLRRECPSECEGAGVFMASHF
1890	NP_001129064.1	141	FMASHFDRHYCGKCCLTYCFN
1891	NP_001129064.1	144	SHFDRHYCGKCCLTYCFNKPE
1892	NP_001129064.1	145	HFDRHYCGKCCLTYCFNKPED
1893	NP_001129115.1	30	VRAPLSQLYFCRYCSELSLE
1894	NP_001129115.1	33	PLSQLYFCRYCSELSLECVS
1895	NP_001129115.1	41	RYCSELSLSLECVSHEVDSHYC
1896	NP_001129115.1	51	CVSHEVDSHYCPSCLENMPSA
1897	NP_001129115.1	54	HEVDSHYCPSCLENMPSAEAK
1898	NP_001129115.1	70	SAEAKLKNRCANCFDCPGCM
1899	NP_001129115.1	73	AKLKNRCANCFDCPGCMHTL
1900	NP_001129115.1	76	KKNRCANCFDCPGCMHTLSTR

1901	NP_001129115.1	79	RCANCFDCPGCMHTLSTRATS
1902	NP_001129115.1	111	TTMKKAYYLACGFCRWTSRDV
1903	NP_001129115.1	114	KKAYYLACGFCRWTSRDVGMA
1904	NP_001129115.1	284	KHLLIKRSLRCRKCEHNLSKP
1905	NP_001129115.1	287	LIKRSRLRCRKCEHNLSKPEFN
1906	NP_001129115.1	351	ENLTHVTLFECEEGDPPDINS
1907	NP_001129115.1	425	PQREEGEVTVCFKMKHDFKNL
1908	NP_001129125.1	43	PAGPVLSIRVCRDMITRRSLG
1909	NP_001129125.1	128	TFSAFGNILSCKVVCDENGSK
1910	NP_001129125.1	132	FGNILSCKVVCDENGSKGYAF
1911	NP_001129125.1	339	DGRSKGFGFVCFSSPEATKA
1912	NP_001129125.1	510	GAAQQGLTDCQSGGVPTAVQ
1913	NP_001129477.1	62	ISDHTALAQFCCKEKKIEFVVV
1914	NP_001129477.1	134	WKAFTKPEEACSFILSADFP
1915	NP_001129477.1	168	VIVAKSKEEACKAVQEIMQEK
1916	NP_001129477.1	200	EELLDGEEVSLCFTDGKTVA
1917	NP_001129477.1	202	LLDGEEVSLCFTDGKTVAPM
1918	NP_001129477.1	237	GPNTGGMGAYCPAPQVSNDDL
1919	NP_001129477.1	291	KNGPKVLEFNCRFGDPECQVI
1920	NP_001129477.1	298	EFNCRFGDPECQVILPLLKSD
1921	NP_001129477.1	322	VIQSTLDGLLCTSLPVWLENH
1922	NP_001129477.1	466	PLAKATSRSGCKVDLGGFAGL
1923	NP_001129477.1	506	VGTKLKIQLCNKHDTIGQDL
1924	NP_001129477.1	520	DTIGQDLVAMCVNDILAQGAE
1925	NP_001129477.1	540	EPLFFLDYFSCGKLDLSVTEA
1926	NP_001129477.1	559	EAVVAGIAKACGKAGCALLGG
1927	NP_001129477.1	564	GIKACGKAGCALLGGETAEM
1928	NP_001129477.1	646	LQYSSPAPDGCQDQLGDL
1929	NP_001129477.1	733	SEEMARTFNCVGVAVLVVSK
1930	NP_001129477.1	891	VLEEFSDIVCLAGFMRILSG
1931	NP_001129477.1	941	ALETGVTVTGCTVHFVAEDVD
1932	NP_001129676.1	42	AGRKRERPERCSSSSGGSSG
1933	NP_001129676.1	102	KERVKLEGSCKGQLLIFGAT
1934	NP_001129676.1	144	QNLWGPARYGCLAGVVRTV
1935	NP_001129676.1	158	VRVRTVVSAGCAHSLITTE
1936	NP_001129676.1	209	LSHEVIVSAACGRNHTLALTE
1937	NP_001129676.1	261	YNGQPITKMACGAEFMIMDC
1938	NP_001129676.1	271	CGAEFSMIMDCGNLYSFGCP
1939	NP_001129676.1	305	IARAQRIEYDCELVPRRVAIF
1940	NP_001129676.1	395	GASQIYAGYTCFAVSEVGG
1941	NP_001129676.1	437	LCGWRIRSLACGKSSIIVAAD
1942	NP_001129734.1	30	EIYVDLIEDSCLGFCFEVHRA
1943	NP_001129734.1	34	DLIEDSCLGFCFEVHRAVKCG
1944	NP_001129734.1	43	FCFEVHRAVKCGFYLEFAET
1945	NP_001129734.1	70	GIQPVEDKGACRLPLCSLPGE
1946	NP_001131024.1	14	PAAAQSREIDCLSPEAQKLAE
1947	NP_001131024.1	410	RTRTPLEPSNCWSDLDGGNHT
1948	NP_001131024.1	441	VEEQAGTVASCPLGHSDDTVY
1949	NP_001131024.1	456	SDDTVYHDDKCMVEVPQLE
1950	NP_001131024.1	529	PGSPAGTEGNCQEATGPSTVD
1951	NP_001131024.1	644	IAAESSENVDCPENPKIKLDG
1952	NP_001131024.1	726	AEPKSEDADRCTLPEHESPSQ
1953	NP_001131024.1	742	ESPSQDISDACEAESTERCEM
1954	NP_001131024.1	750	DACEAESTERCEMSEHPSQTV
1955	NP_001135967.1	103	FIDSKLIYTYCGIVLVAINPY
1956	NP_001135967.1	266	ERNYHIFYQLCASAKLPEFKM
1957	NP_001135967.1	312	AKEMAHTRQACTLLGISESHQ
1958	NP_001135967.1	348	VGFTSRDADSCTIPPKHEPLC
1959	NP_001135967.1	358	CTIPPKHEPLCIFCDLMGV
1960	NP_001135967.1	361	PPKHEPLCIFCDLMGV
1961	NP_001135967.1	372	DLMGV
1962	NP_001135967.1	376	VDYEMCHWLCHRKLATATET
1963	NP_001135967.1	453	TFEINSFEQFCINYANEKLQ
1964	NP_001135967.1	495	TLIDFYDNQPCINLIESKLG
1965	NP_001135967.1	513	LGILDLLDEECKMPKGTDDTW
1966	NP_001135967.1	535	QKLYNTHLNKCALFEKPRLSN
1967	NP_001135967.1	561	QHFADKVEYQCEGFLEKNKDT
1968	NP_001135967.1	660	LNATPHYVRCIKPNDFKFPF
1969	NP_001135967.1	684	EKRAVQQLRACGVLETRISA
1970	NP_001135967.1	727	KDVLSDRKQTCKNVLEKLILD
1971	NP_001135967.1	770	KLRADKLRAACIRIQKTIRGW
1972	NP_001135967.1	807	QRYVRGYQARCYAKFLRRTKA
1973	NP_001135967.1	894	RSMHAIYLYQCCFRMMAKRE
1974	NP_001135967.1	895	SMHAIYLYQCCFRMMAKREL
1975	NP_001135967.1	945	KVDEQNKDYKCLVEKLTNLEG
1976	NP_001135967.1	1489	PGLPAYILFMCVRHADYLNDD

1977	NP_001135967.1	1535	ETVSFWLSNTCRFLHCLKQYS
1978	NP_001135967.1	1540	WLSNTRCRFLHCLKQYSGEEGF
1979	NP_001135967.1	1562	KHNTSRQNEHCLTNFDLAEYR
1980	NP_001135967.1	1649	RQLNSFHSVMCQHGMPELIK
1981	NP_001135967.1	1684	LNNLLLRKDMCSWSKGMQIRY
1982	NP_001135967.1	1741	KKTDDDAEAI CSMCNALTTAQ
1983	NP_001135967.1	1744	DDDAEAI CSMCNALTTAQIVK
1984	NP_001135971.1	64	VAGAKRKGVHCVMSLGVPGPA
1985	NP_001136270.1	192	MTSADPPLLSCXXXXXXXXXX
1986	NP_001139699.1	70	TLRITTRKTPCGEGSKTWDRF
1987	NP_001153239.1	97	DGDKTKMTNHCVFSANEDHET
1988	NP_001153239.1	300	ETAVIGLLWTCIMNAVEWNKK
1989	NP_001153239.1	350	LILLQKVQEYCYDNIHFMKAF
1990	NP_001155901.1	76	ETLLRYDQIC SIEPKFPFSE
1991	NP_001155901.1	90	PKFPFSENQICLFTWKDAFD
1992	NP_001155901.1	122	ALASLGYEKSCVLFNCAALAS
1993	NP_001155901.1	127	GYEKSCVLFNCAALASQIAAE
1994	NP_001155901.1	231	ADYFGDAFKQCQYKDTLPKYF
1995	NP_001155901.1	255	EVFPVLAAKHCIMQANA EYHQ
1996	NP_001155901.1	517	AVQADGQVKECYQSHRDTIVL
1997	NP_001155901.1	529	QSHRDTIVLLCKPEPELNAAI
1998	NP_001155901.1	696	TEILVRFQNKCSDIVFARKTE
1999	NP_001155901.1	818	YPTYPGYPGYCQMPMPMGYNP
2000	NP_001157666.1	329	RDIAQQLQATCTSLGSSIQGL
2001	NP_001157789.1	32	FTRWCNEHLKCVNKRIGNLOT
2002	NP_001157789.1	178	GKALGALVDSCAPGLCPDWES
2003	NP_001157789.1	183	ALVDSCAPGLCPDWESWDPQK
2004	NP_001157789.1	416	VEDKGNQVYRCVYKPMQPGPH
2005	NP_001157789.1	450	SPFVVQVGEACPNACRASGR
2006	NP_001157789.1	455	QVGEACPNACRASGRGLQPK
2007	NP_001157789.1	604	IEYNDQNDGSCDVKYWPKEPG
2008	NP_001157789.1	622	EPGEYAVHIMCDDEDIKDSPY
2009	NP_001157789.1	660	AYGPGLEKSGCIVNNLAEFTV
2010	NP_001157789.1	706	MKNRMDGTYACSYTPVKAIKH
2011	NP_001157789.1	769	ANEPHTFTVDCTEAGEGDVSV
2012	NP_001157789.1	783	GEGDVSVGIKCDARVLSEDEE
2013	NP_001157789.1	991	ILSPSRKVVPCLVTPVTGREN
2014	NP_001157789.1	1081	GGLGLTVEGPEAKIECSDNNG
2015	NP_001157789.1	1087	VEGPEAKIECSDNNGDGTCSV
2016	NP_001157789.1	1158	VGEAGLLSVDCEAGPGALGL
2017	NP_001157789.1	1280	IANPSGASTEFCFVTDNADGTY
2018	NP_001157789.1	1648	RATQTGDASKCLATGPGIAST
2019	NP_001157789.1	1681	AKTAGKGVCTCTVLPDGT EA
2020	NP_001157789.1	1751	TAVEEAPVNACPPGFRPWVTE
2021	NP_001157789.1	1946	TAKITDSSRCSQVKLGSAAD
2022	NP_001157789.1	1983	IKAPSGRDEPCLLKRLPNNHI
2023	NP_001157789.1	2146	APSVATVGSICDLNLKIP E IN
2024	NP_001157789.1	2185	EIVPMGKNSHCVRVFPQEMGV
2025	NP_001157789.1	2364	VHSPSGAVEECHVSELEPDKY
2026	NP_001157789.1	2462	IEGPKSKVMDCQETPEGYKVM
2027	NP_001157789.1	2587	LIGVHGPTTPCEEVSMKHVGN
2028	NP_001157903.1	24	RLAPGPLASPCPRI PRARIAR
2029	NP_001157903.1	36	RIPRARIARRCAQRWADLGCS
2030	NP_001157903.1	45	RCAQRWADLGSSGPPSSGRMD
2031	NP_001157903.1	73	LRLHPAGSAGCSTGVESSSMD
2032	NP_001157903.1	154	TLTQTQVAAVCRRLDIYARSV
2033	NP_001157903.1	297	SLALIELTALCDILGLDLKRS
2034	NP_001157903.1	350	VPLVLQALLSCLEKRG LDMEG
2035	NP_001157903.1	545	NDSSRRPQLCDAGLKTWLRR
2036	NP_001158286.1	691	ATPPVPQLQVCEPKERTSTSS
2037	NP_001158286.1	905	DGTHDKGLKICRTVTQVVP AE
2038	NP_001158286.1	1039	AFWIDKIKSHCFVYTSV EEA
2039	NP_001158286.1	1070	KWPQSNPKFLCADYAEQDELD
2040	NP_001158286.1	1210	DLFRKTKAAPCIYWLPLTDSQ
2041	NP_001158887.1	35	VVGVGAVGMACAISILMKDLA
2042	NP_001158887.1	131	IPNVVKYSPNCKLLIVSNPVD
2043	NP_001158887.1	185	GERLGVHPLSCHGWV LGEHGD
2044	NP_001158887.1	230	TDKDKEQWKECRYTLGDPKGA
2045	NP_001158887.1	253	LKSSDVISFHCLGYNR ILGGG
2046	NP_001158887.1	264	LGYNRILGGGCACCPFY LICD
2047	NP_001158887.1	266	YNRILGGGCACCPFY LICDXX
2048	NP_001158887.1	267	NRILGGGCACCPFY LICDXXX
2049	NP_001161819.1	41	QNVKQLYALVCETQRYSAVLD
2050	NP_001161819.1	216	GHLILQDRASCLPAMLLDPPP
2051	NP_001161819.1	234	PPPGSHVIDACAAPGNK TSHL
2052	NP_001161819.1	278	ATLLARAGVSCCELA EEDFLA

2053	NP_001161819.1	279	TLLARAGVSCCELAEEEDFLAV
2054	NP_001161819.1	308	EVHYILLDPSCSGSGMPSRQL
2055	NP_001161819.1	343	ALAGFQQRALCHALTFPSLQR
2056	NP_001161819.1	359	PSLQRLVYSTCSLQCQENEDV
2057	NP_001161819.1	362	QRLVYSTCSLQCQENEDVVRD
2058	NP_001161819.1	404	GLSTFPGAHEHLRASPETTL
2059	NP_001161819.1	458	KEETAQRSRCLHTALHIAEA
2060	NP_001164120.1	27	DLVWSAWYGKCVKKGSLPLS
2061	NP_001164120.1	60	EWDQVTVYLFCDHKLQRYAL
2062	NP_001164120.1	97	AVASTADLIRCKLLDVTGGLG
2063	NP_001164120.1	140	KTKFAKVPLKCLAQEVNIPDW
2064	NP_001164120.1	169	THKKMPHINDCRRGCFVLDW
2065	NP_001164120.1	173	MPHINDCRRGCFVLDWLQKT
2066	NP_001164120.1	186	VLDWLQKTYWCRQLENSLRET
2067	NP_001164120.1	256	SKGSEEVDSHCKKALSHKELY
2068	NP_001164120.1	316	CVLAELKGVTCENREAVLDAF
2069	NP_001164120.1	439	EARRGWRLFNCASLDWPRMV
2070	NP_001164120.1	452	SLDWPRMVESCLGSPCWASPQ
2071	NP_001164120.1	457	RMVESCLGSPCWASPLLRII
2072	NP_001164120.1	487	DEEQEKLLRICSIYTQSGENS
2073	NP_001164120.1	673	VLEQRLEPSTCKTDTLGLSCG
2074	NP_001164120.1	682	TKTDTLGLSCGVGSGNCSNS
2075	NP_001164120.1	689	GLSCGVGSGNCSNSSSNFEG
2076	NP_001166184.1	320	VKRQENLLKRCKETIQSHKEQ
2077	NP_001166184.1	331	KETIQSHKEQCTLLTSEKEAL
2078	NP_001166184.1	671	QTEMEKLRKCEKQEKETLLKD
2079	NP_001166184.1	875	AEVEAQKKDVCTELDAHKIQV
2080	NP_001166184.1	1242	SEELAIQLDICKKTEALLEA
2081	NP_001166184.1	1275	TNAILSRISHCQHRRTTKVKEA
2082	NP_001166184.1	1362	QQQAASEKESCITQLKKELSE
2083	NP_001166184.1	1430	SLRKQYDEEKCELLDQVQDLS
2084	NP_001166184.1	1519	ELDQQNKRFDCLKGEMEDDKS
2085	NP_001166184.1	1751	TEQEEADSQGCVQKTYEEKIS
2086	NP_001166184.1	1793	ETVSSHFMRCQYQERLIKLE
2087	NP_001166184.1	1871	QKTLQEKELTCQILEQKIKEL
2088	NP_001166184.1	1884	LEQKIKELDSCLVRQKEVHRV
2089	NP_001171712.1	28	GRGLESHTMCIPPSYADLGK
2090	NP_001171712.1	91	TGTLETKYKWCEYGLTFTEKW
2091	NP_001171712.1	118	GTEIAIEDQICQGLKLTFTDTT
2092	NP_001171712.1	148	GKIKSSYKRECINLGCVDVDF
2093	NP_001171712.1	153	SYKRECINLGCVDVDFAGPA
2094	NP_001171712.1	225	EFGGSIYQKVCEDLDTSVNLA
2095	NP_001171712.1	242	VNLAWTSGTNCTRFGLAAKYQ
2096	NP_001171725.1	230	QIDVEVKKYFCKAGVKGMQLH
2097	NP_001171725.1	532	QESKAVYSTNCPVWEEAFRFF
2098	NP_001171725.1	614	RILYLDSSIECFPTVPGCPGA
2099	NP_001171725.1	621	SEICFPVPGCPGAWDVDSN
2100	NP_001171725.1	744	DLDKDFLGRCKVRLTTLVNS
2101	NP_001171725.1	900	LSELLVADQLCLDRWFTLSSG
2102	NP_001171725.1	1005	ERKLVSIHVHGRSLRQNGRDP
2103	NP_001171752.1	8	XXXMATHGQTCARPMCIPPSY
2104	NP_001171752.1	47	LVKLDVKTCSGVEFSTSGS
2105	NP_001181.2	22	RKLLSVPWLLCGPRRYASSSF
2106	NP_001181.2	135	DRMLRSAMRLCLPSFDKLELL
2107	NP_001181.2	147	PSFDKLELLELCIRRLIEVDKD
2108	NP_001181.2	195	PTRALLFVILCPVGAYFPGGS
2109	NP_001181.2	249	LVQQEALKRGCEQVLWLYGPD
2110	NP_001181.2	345	VFGSGTACQVCPVHRILYKDR
2111	NP_001185792.1	14	CVTLVQLSISCDHLIDKDIGS
2112	NP_001185792.1	30	KDIGSKSDPLCVLLQDVGGGS
2113	NP_001185792.1	99	RDDDFLGGAECSLQIVSSQV
2114	NP_001185792.1	200	KRFSVPVQHFCGPNPSTPIQV
2115	NP_001185792.1	212	GNPSTPIQVQCSDYSDGSHD
2116	NP_001185792.1	243	QLQAVPAEFECIHPEKQKQKK
2117	NP_001185792.1	266	KNSGTIRVKICRVETEYSFLD
2118	NP_001185792.1	282	YSFLDYVMGGCQINFVTGVDF
2119	NP_001185792.1	366	ALNFNPSPNYCAGIQGIVDAY
2120	NP_001186036.1	8	XXXMDSPGYNCFVDKMDAA
2121	NP_001186036.1	64	VYQRLIRDIPCRTVTPDASVY
2122	NP_001186036.1	89	GKIVGKHSSSCLPLPEFVDNT
2123	NP_001186036.1	105	FVDNTQVPSYCLNARGEGAVR
2124	NP_001186036.1	120	GEGAVRKILLCLANQFPDISF
2125	NP_001186036.1	131	LANQFPDISFCPALPAVALL
2126	NP_001186036.1	151	LLHYSIDEAEKACRILAC
2127	NP_001186036.1	156	IDEAEKACRILACNDPGR
2128	NP_001186036.1	161	CFEKACRILACNDPGRRLIDQ

2129	NP_001186036.1	180	DQSFLAFESSCMTFGDLVNKY
2130	NP_001186036.1	191	MTFGDLVNKYCQAAHKLMVAV
2131	NP_001186036.1	223	QRWLFGEPLPLCYFARVFDVFL
2132	NP_001186036.1	364	WSWVPERFALCQPLLLFSSLQ
2133	NP_001186036.1	386	GYSLARFYFQCEGHEPTLLLI
2134	NP_001186036.1	430	GKLGFFGTGECFVFRLQPEVQ
2135	NP_001186036.1	505	ESMFMAGGSDCLIVGGGGQA
2136	NP_001186036.1	530	GDLNRGRTSHCDTFNNQPLCS
2137	NP_001186036.1	539	HCDTFNNQPLCSENFLLAAVE
2138	NP_001186071.1	79	NAMKIRDVTKCLEEFELGKA
2139	NP_001186071.1	401	TYMKPEMWGKCLDCINELMDI
2140	NP_001186071.1	404	KPEMWGKCLDCINELMDILFA
2141	NP_001186071.1	480	VEHLKDEAQVCAIIERVQRYL
2142	NP_001186071.1	500	LEEKGTTEEVCRIYLLRILHT
2143	NP_001186071.1	552	EDSAVLMERLCKYIYAKDRTD
2144	NP_001186071.1	567	AKDRTRDIRTCAILCHLYHHA
2145	NP_001186071.1	571	TRDIRTCAILCHLYHHAHLSR
2146	NP_001186071.1	619	YNRTMVQLGICAFRQGLTKDA
2147	NP_001186071.1	684	HLHINLELLECVYLVSAMLLE
2148	NP_001186071.1	752	KAMKMGDWKTCHSFIINEKMN
2149	NP_001186128.1	92	LIEKNLETPLCCKNGFLLDGFP
2150	NP_001186231.1	408	KFASPWASSPCRQDIDFHVP
2151	NP_001186231.1	504	YERGTYFFDCLNWRKVAKEF
2152	NP_001186797.1	46	VHFVAPWAPQCAQMNEVMAEL
2153	NP_001186797.1	146	RLKKLTHAAPCMLFMKGTPOE
2154	NP_001186797.1	159	FMKGTPOEPRCGFSKQMVAIL
2155	NP_001193496.1	295	GKMDVVGTGQCHNIPCEEKDK
2156	NP_001193496.1	300	VGTDGQCHNIPCEEKDKLQFC
2157	NP_001193496.1	310	CEEKDKLQFCFRLRKKNQMS
2158	NP_001193496.1	581	KKIIAIAANYVCRNGFLEVYPF
2159	NP_001193496.1	623	ASVTPKINQLCSQTKGSFVNG
2160	NP_001193726.1	31	AMADTFLEHMCRLDIDSPPIT
2161	NP_001193726.1	78	ITLDNAYMEKCDENILWLDYK
2162	NP_001193726.1	91	NILWLDYKNICKVVEVSGKIY
2163	NP_001193726.1	243	FLAQKMMIGRCNRAGKPVICA
2164	NP_001193726.1	252	RCNRAGKPVICATQMLESMIK
2165	NP_001193726.1	284	VANAVLDGADCIMLSGETAKG
2166	NP_001193726.1	349	AVGAVEASFKCCSGAIIVLTK
2167	NP_001193726.1	350	VGAVEASFKCCSGAIIVLTKS
2168	NP_001193726.1	400	HLYRGIFFVPLCKDPVQEAWE
2169	NP_001229696.1	130	EEAGLNITHICLPPDSSEAEI
2170	NP_001229696.1	198	GKLVGRDAHECFVSPVAKAVI
2171	NP_001229696.1	239	AHGSLEAALQCLFQRKGSMTM
2172	NP_001229696.1	292	WIQPGTTVLNCSHDFLSGKVG
2173	NP_001229696.1	303	SHDFLSGKVGCGSPRIHFGGL
2174	NP_001229696.1	351	EQQHRRWRLHCLKLQPLSPVP
2175	NP_001229696.1	452	TAHLNVNSFACLQPSQGPFT
2176	NP_001229696.1	729	IGMEKFFNIKCRASGLVFNVV
2177	NP_001229696.1	779	EENIQLVADGCCNLQKQIQIT
2178	NP_001229696.1	780	ENIQLVADGCCNLQKQIQITQ
2179	NP_001229696.1	815	TDTRAEIDLVCCELAKRAGAFD
2180	NP_001229696.1	829	KRAGAFDAVPCYHWSVGGKGS
2181	NP_001229696.1	907	TQQGFGNLPICMAKTHLSLSH
2182	NP_001229696.1	962	STMPGLPTRPCFYDIDLDTET
2183	NP_001229712.1	16	PLRSLEEEVTCISICLDYLRDP
2184	NP_001229712.1	19	SLEEEVTCISICLDYLRDPVTI
2185	NP_001229712.1	31	DYLRDPVTIDCGHVFCRSCTT
2186	NP_001229712.1	36	PVTIDCGHVFCRSCTTDVVRPI
2187	NP_001229712.1	39	IDCGHVFCRSCTTDVVRPISGS
2188	NP_001229712.1	53	VRPISGSRPVCPLCKKPFKKE
2189	NP_001229712.1	56	ISGSRPVCPLCKKPFKKEENIR
2190	NP_001229712.1	102	VTREQQDAKLCERHREKLYHY
2191	NP_001229712.1	113	ERHREKLYHYCEDDGKLLCVM
2192	NP_001229712.1	121	YYCEDDGKLLCVMCRESRHR
2193	NP_001229712.1	124	EDDGKLLCVMCRESRHRPHT
2194	NP_001229712.1	334	GYLQLESDWKCVTYTSLYKSA
2195	NP_001229712.1	437	EEEEEEVLES CMVGVARDSVK
2196	NP_001229821.1	42	KLLTSYGF IQCSERQARLFFH
2197	NP_001229821.1	53	SERQARLFFHCSQYNGNLQDL
2198	NP_001229821.1	106	PEERMNGQVVCAPVPHNLESKS
2199	NP_001229821.1	129	APGQSPTGSVCYERNGEVFYL
2200	NP_001229821.1	186	IMLLKKKQARCGVVCAMKEA
2201	NP_001229821.1	191	KKQARCGVVCAMKEAFGFIE
2202	NP_001229821.1	464	AEDGIIAYDDCGVKLTIAFQA
2203	NP_001229821.1	645	GIVGMANKGDCLQKGESVKFQ
2204	NP_001229821.1	657	QKGESVKFQLCVLGQNAQTMA

2205	NP_001229821.1	730	SVILNQRGTGKCSACNVWRVCE
2206	NP_001229821.1	733	LNQRGTGKCSACNVWRVCEGPK
2207	NP_001229831.1	64	IKEPLPVEDVCPKVVSTPPSV
2208	NP_001229831.1	147	GGEAKSIPLECPLSSPKGVLF
2209	NP_001229831.1	165	VLFSKSAEVCKQDSPFSRVP
2210	NP_001229831.1	376	TTVGKVAGRVCQASQLQGQKE
2211	NP_001229831.1	389	SQLQGQKEESCVPVHQKTVLG
2212	NP_001229831.1	438	GSPPPKTYVSCLSLSSPTK
2213	NP_001229831.1	464	ISAHHISLASCLALTPSEEL
2214	NP_001229831.1	487	RAGILVEDATCVTCMSDSSQS
2215	NP_001229831.1	490	ILVEDATCVTCMSDSSQSVPL
2216	NP_001229831.1	507	SVPLVASPGHCSDSFSTSGLE
2217	NP_001229831.1	520	SFSTSGLEDSTETSSSPRDK
2218	NP_001229831.1	584	DRNSMDSVDSCCSLKKTESFQ
2219	NP_001229831.1	585	RNSMDSVDSCCSLKKTESFQN
2220	NP_001229831.1	655	TLPYTQSVQICHIEGSHHVD
2221	NP_001229831.1	746	LRSLDQQMYLCYSQPGIPTLP
2222	NP_001229831.1	765	LPTPVEITVICAAPGADGAWW
2223	NP_001229862.1	537	SKFFSTVHKFCAAASLWKWGF
2224	NP_001230131.1	76	DPHPRVRAAACTTLGQMATDF
2225	NP_001230131.1	129	ASALIFIEDCPKSLLVLYVD
2226	NP_001230131.1	216	LKLLRGKTIECISHIGLAVGK
2227	NP_001230131.1	268	SYMVSAWARMCKILGKDFQOY
2228	NP_001230131.1	338	TSGLEAKATACQMLVYAKEL
2229	NP_001230131.1	389	AAESMPFLECARIRGPEYLA
2230	NP_001230131.1	406	EYLAQMWQFICDPLKKAIGTE
2231	NP_001230131.1	440	AKSIEVMGDGCLNDEHLEELG
2232	NP_001230131.1	490	VEMSLQDEDECDVYILTKVSD
2233	NP_001230131.1	529	QLLPLIVNLICSSRPWDRQW
2234	NP_001230131.1	542	RPWDRQWGLCIFDDIEHCS
2235	NP_001230131.1	551	LCIFDDIEHCSPTSFKYVEY
2236	NP_001230131.1	600	QFGGDDYRSLCSEAVPLLVKV
2237	NP_001230131.1	613	AVPLLVKVIKCANSTKKNVI
2238	NP_001230131.1	628	TKKNVIATENCISAIGKILKF
2239	NP_001230131.1	642	IGKILKFKPNCVNVDEVLPWH
2240	NP_001230131.1	673	EEAIQTLNFLCDLIESNHPVV
2241	NP_001230131.1	713	INETINYEDPCAKRLANVVRQ
2242	NP_001230131.1	734	VQTSEDLWLECVSQLDDEQQE
2243	NP_001230154.1	38	QLSLADFRRLCILKGIYPHEP
2244	NP_001230154.1	141	LRDLDDALSMCFLFSTFRTG
2245	NP_001230154.1	153	LFSTFRTGKCHVQTIQLCRR
2246	NP_001230154.1	161	GKCHVQTIQLCRRLTVEFMHY
2247	NP_001230154.1	356	GGEVSWDKSLCIGATYDVTDS
2248	NP_001230154.1	386	PGQQTSVIGRCYVQPQWVFD
2249	NP_001230679.1	14	DCLSAEGELRCRRLLAGATAR
2250	NP_001230679.1	39	PASAAVLVPLCSVRGVPALLY
2251	NP_001230679.1	71	KGDVSFPGGKCDPADQDVVHT
2252	NP_001230679.1	159	QTQNQGYTHFCRGGHFRYTL
2253	NP_001230679.1	224	ARPKQPLASPCQASSTPGLNK
2254	NP_001231.2	111	LEHVIVKVAHTCLHPQESLPDT
2255	NP_001231.2	160	IDHPHTHVVKCTQLVRASKDL
2256	NP_001231.2	198	SLQYTPPVVACVCIHLACKWS
2257	NP_001231.2	200	QYTPPVVACVCIHLACKWSNW
2258	NP_001231.2	205	VVACVCIHLACKWSNWEIPVS
2259	NP_001231.2	630	TSGLSFSQPSCKTRVPHSKLD
2260	NP_001239007.1	127	VVEQGMFVKHCKVEVYLTELK
2261	NP_001239007.1	139	VEVYLTELKLCENGMNNAVVT
2262	NP_001239007.1	289	PGRNNEQPGLCGLSNLGNCTCF
2263	NP_001239007.1	298	LCGLSNLGNCTCFMNSAIQCLS
2264	NP_001239007.1	306	NTCFMNSAIQCLSNTPLTEY
2265	NP_001239007.1	381	PQFSGYQQDCQELLAFLLDG
2266	NP_001239007.1	448	FHGLFKSTLVCPECAKISVTF
2267	NP_001239007.1	451	LFKSTLVCPECAKISVTFDPF
2268	NP_001239007.1	462	AKISVTFDPFCYLTLPMPKK
2269	NP_001239007.1	506	VPKIGNILDLCALSALSGIP
2270	NP_001239007.1	570	EDTEHVIIPVCLREKFRHSSY
2271	NP_001239007.1	615	KLYNLLLLRMCRYVKI STETE
2272	NP_001239007.1	633	ETEETEGSLHCKDQNINGNG
2273	NP_001239007.1	634	TEETEGSLHCKDQNINGNGP
2274	NP_001239007.1	695	GGDNDSENGLCTEDTCKGQLT
2275	NP_001239007.1	700	SENGLCTEDTCKGQLTGHKRR
2276	NP_001239007.1	791	PKKPFVKLKDCIELFTTKEKL
2277	NP_001239007.1	809	EKLGAEDPWYCPNCKEHQQAT
2278	NP_001239007.1	812	GAEDPWYCPNCKEHQQATKKL
2279	NP_001239007.1	873	EFLINPNAGPCRYNLIAVSNH
2280	NP_001239007.1	977	DNDNDIENENCMHTNXXXXXX

2281	NP_001243194.1	119	LDLSHNQLTECPRELENAKNM
2282	NP_001243194.1	178	LSNLADVLDSCNDLTRVPECL
2283	NP_001243194.1	187	SCNDLTRVPECLYTLPLSLRRL
2284	NP_001243194.1	210	SSNQITELSLCIDQVHVETL
2285	NP_001243194.1	235	NQLTSLPSAICKLSKLLKLYL
2286	NP_001243194.1	285	LELVPESLCRCPKLRKLVLNK
2287	NP_001243194.1	472	AFHGKFYEADCYIVLKTFLDD
2288	NP_001243194.1	505	GGEATLDKKACSAIHAVNLRN
2289	NP_001243194.1	521	VNLRNYLGAECRTVREEMGDE
2290	NP_001243194.1	719	RLLQSLLDTRCVYILDCWSDV
2291	NP_001243194.1	725	LDTRCVYILDCWSDVFWLGR
2292	NP_001243194.1	753	AAALKLQGELCGMLHRPRHAT
2293	NP_001243194.1	878	EEFGHFYTQDCYVFLCRYWVP
2294	NP_001243194.1	883	FYTQDCYVFLCRYWVPEYEE
2295	NP_001243194.1	927	EKQPPEEDFQCIVYVWQGREA
2296	NP_001243194.1	1012	YQIRTNQSALCTRCIQINTDS
2297	NP_001243194.1	1015	RTNQSALCTRCIQINTDSSLL
2298	NP_001243194.1	1030	TDSSLLNSEFCFILKVPFESE
2299	NP_001243194.1	1114	EYMKHTRLFRCSNEKGYFAVT
2300	NP_001243194.1	1127	EKGYFAVTEKCSDFCQDDLAD
2301	NP_001243194.1	1131	FAVTEKCSDFCQDDLADDIM
2302	NP_001243194.1	1169	QVEIKLSLKACQVYIQHMRSK
2303	NP_001243194.1	1202	KGNEQHAFTRCFHAWSAFCKA
2304	NP_001243194.1	1210	TRCFHAWSAFCKALAXXXXXX
2305	NP_001244.1	46	SLLHRKSAKQCKARWYEWLDP
2306	NP_001244.1	96	APIIGRTAAQCLEHYEFLLDK
2307	NP_001244.1	664	SEAYNQVWEECYSQLVLYLPGQ
2308	NP_001244118.1	109	QSMIQQLATYCARDVRVANVS
2309	NP_001244118.1	238	PDQLQQFQVVCETEEDKFLLL
2310	NP_001244118.1	286	LFLEQFSIPTCVLNGELPLRS
2311	NP_001244118.1	390	MEEIEGFRYRCRDAMRSVTKQ
2312	NP_001244118.1	478	HKKRKKLSSSCRKAKRAKSON
2313	NP_001248769.1	44	CLRITDLKSGCTSLTPGPNCD
2314	NP_001248769.1	53	GCTSLTPGPNCDRFLHIPYA
2315	NP_001248769.1	112	LASWNPSNPECLLLVVKELVQ
2316	NP_001248769.1	129	ELVQQYHQFQCSRLRESSLRM
2317	NP_001248769.1	245	LHIPAFPGGGCLIDYVPQVCH
2318	NP_001248769.1	254	GCLIDYVPQVCHLLTNKVQYV
2319	NP_001248769.1	307	LTLMLMVKDFCFLVHIDLPLF
2320	NP_001252520.1	34	APGGGSPGACPALGTKSCSS
2321	NP_001252520.1	42	GACPALGTKSCSSCAVHDLI
2322	NP_001252520.1	174	TPFN SYNVTCTMKENTQCQL
2323	NP_001252520.1	182	VTCTMKENTQCQLEPAFAFF
2324	NP_001252520.1	196	PAFQAFFLIWCFLPSFPFNQ
2325	NP_001254476.1	19	YKYMFKDEYICILILGLDNAG
2326	NP_001254476.1	93	QSLWDKYAECHEGVIYVIDST
2327	NP_001254476.1	141	VLANKQDVETCLSIPIKTAF
2328	NP_001254476.1	154	IPDIKTAFSDCTSKIGRDCL
2329	NP_001254476.1	163	DCTSKIGRDCLTQACSALTG
2330	NP_001254476.1	168	IGRRDCLTQACSALTGKGVRE
2331	NP_001254476.1	186	VREGIEWMVKCVVRNVHRPPR
2332	NP_001257819.1	32	GFEPGPATIA CGKIVSHTHLG
2333	NP_001257819.1	77	QSLTKEVFKFCWPPFDQKSDT
2334	NP_001257819.1	93	QKSDTEFRKHCCWEWIKRISGE
2335	NP_001257819.1	94	KSDTEFRKHCCWEWIKRISGEC
2336	NP_001257819.1	104	CEWIKRISGECGSSFPQVVG
2337	NP_001257819.1	165	FNIKPDHLHKCIARCHFARSR
2338	NP_001257819.1	169	PQDLHKCIARCHFARSFLQI
2339	NP_001257819.1	185	RFLQILQRQDCVTQKYQENAO
2340	NP_001257819.1	208	VKQVRNLRSECIGLENQIKKM
2341	NP_001257819.1	389	SEEVYAKSILCQYPASLPDAH
2342	NP_001257819.1	408	AHKQHNQENGCGRGSDTLGAL
2343	NP_001257819.1	627	HLTEEKVISDCECVPQKHVLT
2344	NP_001257819.1	629	TEEKVISDCECVPQKHVLTSH
2345	NP_001257819.1	658	QSDLLNKKVICKQDLECLAFT
2346	NP_001257819.1	664	KKVICKQDLECLAFTKLSETS
2347	NP_001257819.1	708	MKILDHLEVSCNKPSTNKTML
2348	NP_001257819.1	850	TDDLNLFLDTCDLHTEHIKPS
2349	NP_001257819.1	891	VEQRLRTTIACSLGELPNLKE
2350	NP_001258522.1	105	FTAAIISRVCRIVALDLRSH
2351	NP_001258522.1	178	SNLVPSLLGLCMIDVVEGTAM
2352	NP_001258522.1	326	FRGLSNLFLSCPIPKLLLLAG
2353	NP_001258522.1	361	GKFQMQVLPQCGHAVHEDAPD
2354	NP_001263400.1	23	VFGQAVKNDQCYDDIRVSRVT
2355	NP_001263400.1	39	VSRVTWSSFCVAVNPRFVAII
2356	NP_001263400.1	77	GRIDKSYPTVCGHTGPVLDID

2357	NP_001263400.1	89	HTGPNVLDIDWCPHNDQVIASG
2358	NP_001263400.1	103	DQVIASGSEDCTVMVWQIPEN
2359	NP_001263400.1	151	TARNVLLSAGCDNAII IWNVG
2360	NP_001263400.1	283	YDPDTSIIYL CGKGDSSIRYF
2361	NP_001263400.1	343	ARFFKLHERKCEPIIMTVPRK
2362	NP_001264.2	11	MASGLGSPSPCSAGSEEDMD
2363	NP_001264.2	79	KRQKKERMLLCRQLGDSSGEG
2364	NP_001264.2	373	DGYETDHQDYCEVCQQGGEII
2365	NP_001264.2	376	ETDHQDYCEVCQQGGEIILCD
2366	NP_001264.2	411	MEKAPEGKWSCPHEKEGIQW
2367	NP_001264.2	414	APEGKWSCPHEKEGIQWEAK
2368	NP_001264.2	452	EEEDDHHMEFCRVCKDGGELL
2369	NP_001264.2	490	LPEIPNGEWLCPRCTCPALKG
2370	NP_001264.2	493	IPNGEWLCPRCTCPALKGKVQ
2371	NP_001264.2	495	NGEWLCPRCTCPALKGKVQKI
2372	NP_001264.2	555	VKWQGMSYWHCSWVSELQLEL
2373	NP_001264.2	567	WVSELQLELHCQVMFRNYQRK
2374	NP_001264.2	869	MAILGSIDWACLIVDEAHLK
2375	NP_001264.2	1018	LLNVVMDLKKCCNHPYLFVVA
2376	NP_001264.2	1019	LNVMMDLKKCCNHPYLFVAA
2377	NP_001264.2	1121	RFNAPGAQQFCFLSTRAGGL
2378	NP_001264.2	1468	AYVSLFMRHLCEPGADGAETF
2379	NP_001264.2	1827	ALNTRFAEVECLAESHQHLK
2380	NP_001265119.1	205	TIDDLKDLKCTKEEHLCTQR
2381	NP_001265139.1	21	GGGGKIRTRRCHQGP I KPYQQ
2382	NP_001265139.1	66	QRYFNKNEDVCSCTDTSEVP
2383	NP_001265139.1	68	YFNKNEDVCSCTDTSEVPRW
2384	NP_001265139.1	148	FSMLESPALHCQPSTSSAFPI
2385	NP_001265139.1	622	ESLKAGSSWQCDTCLLQNKVT
2386	NP_001265139.1	625	KAGSSWQCDTCLLQNKVTDNK
2387	NP_001265139.1	636	LLQNKVTDNKCIACQAAKLS
2388	NP_001265139.1	639	NKVTDNKCIACQAAKLSRDT
2389	NP_001265139.1	703	NKPEAIKCVACETPKPGTCVK
2390	NP_001265139.1	711	VACETPKPGTCVKRALTLTVV
2391	NP_001265139.1	735	AETMTASSSSCTVTTGTLGFG
2392	NP_001265139.1	757	KFKRPIGSWECSVCCVSNNAE
2393	NP_001265139.1	760	RPIGSWECSVCCVSNNAE DNK
2394	NP_001265139.1	761	PIGSWECSVCCVSNNAE DNKC
2395	NP_001265139.1	771	CVSNNAE DNKCVSCMSEKPGS
2396	NP_001265139.1	1023	TKSASVAPFTCKTSEAKKEEM
2397	NP_001265139.1	1087	GKKADNEEPKCQPVV SFGNSE
2398	NP_001269534.1	20	DRRDYVFI EFCVEDSKDVNVN
2399	NP_001269534.1	40	NFEKSKLTF SCLGGSDNFKHL
2400	NP_001269534.1	75	KHKRTDRSILCCLRKGESGQS
2401	NP_001269534.1	76	HKRTDRSILCCLRKGESGQSW
2402	NP_001273079.1	59	KADRLAQMSICSSLARKFPKL
2403	NP_001273079.1	170	RSHSNKLVTDCAAMNPDAVL
2404	NP_001273079.1	207	ASAYVFASPGCKKWD TCAPEV
2405	NP_001273079.1	213	ASPGCKKWD TCAPEVILHAVG
2406	NP_001273355.1	13	HNKI PPRWLNCPRRGQPVAGR
2407	NP_001273355.1	91	KEGIKYIKLQCKGHGECPTTE
2408	NP_001273355.1	97	IKLQCKGHGECPTTENTETFI
2409	NP_001273355.1	110	TENTETFI RLCERFNERNPPE
2410	NP_001273355.1	126	RNPPELIGVHCTHGFNR TGFL
2411	NP_001273355.1	138	HGFNR TGFLICAF LVEKMDWS
2412	NP_001273355.1	193	APPPPLLPDWCFEDED EDED
2413	NP_001273355.1	257	QPKLGEVQQKCHQFCGWEGSG
2414	NP_001273355.1	261	GEVQQKCHQFCGWEGSGFPGA
2415	NP_001273355.1	375	IKFNSQPVGD CDFNVRLQIE
2416	NP_001273355.1	383	GD CDFNVRLQIE REI I SPRH
2417	NP_001273355.1	430	TSRKKYKPGRCDDILKWKPPS
2418	NP_001273355.1	494	LKQYDNKI IECKFENNSWVFM
2419	NP_001273355.1	523	PNAYNTAMAVCN S I SNPVTKE
2420	NP_001273355.1	542	KEMLF EFIDRCTAASQ GQKRK
2421	NP_001273490.1	33	PVEAVLQLQDCSIFIK I IDR I
2422	NP_001273490.1	65	QPVSERLDFVCSFLQKNRKH
2423	NP_001273490.1	299	TMRLHETLQ CQDLKTEKSQM
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2425	NP_001273490.1	658	LSRKVEELQACVETARQE QHE
2426	NP_001273490.1	735	AADALEEQRCISELKAETR S
2427	NP_001273490.1	803	MAAQHTAESECEQLVKEVAAW
2428	NP_001273490.1	842	QEQLMTLKEECEKARQELQEA
2429	NP_001273490.1	1136	RAEVSKLEQQCQKQQEQADSL
2430	NP_001273490.1	1367	VSELLPAKHL CQQLQAEQAAA
2431	NP_001273490.1	1659	GLKTKEAEQTCRHLTAQVRS L
2432	NP_001273490.1	1893	PGRNSFYMGTCQDEPEQLDDW

2433	NP_001273490.1	1916	IAELQQRNRVCPPHLKTCTYPL
2434	NP_001273490.1	1923	NRVCPPHLKTCTYPLESRPQLS
2435	NP_001273490.1	1995	GTPEKSKATSCFPRPMTPRDR
2436	NP_001273726.1	64	REGPNKTGTSCALDCGAGIGR
2437	NP_001273726.1	68	NKTGTSCALDCGAGIGRITKR
2438	NP_001273726.1	116	EEGKRVNRNYFCCGLQDFTEPD
2439	NP_001273726.1	117	EGKRVNRNYFCCGLQDFTEPD
2440	NP_001273726.1	153	DQHLAEFLRRCCKGSLRPNIGI
2441	NP_001273726.1	184	VILDDVDSVCRDLVVRRII
2442	NP_001275912.1	169	AKTVNVITTACFSKVKILVA
2443	NP_001275912.1	269	FAEKLLKQLECCKERFEVKMM
2444	NP_001275912.1	270	AEKLLKQLECCKERFEVKMML
2445	NP_001275912.1	368	INAIKEITARCPLAMTEELLQ
2446	NP_001275996.1	205	TKFFFDVPRKCNQPVFPQQP
2447	NP_001275996.1	258	DEMGLGKTVQCIATIALMIQR
2448	NP_001275996.1	277	QRGVPGPFLVCGPLSTLPNWM
2449	NP_001275996.1	346	AMRDRNALQHCYWKYLIVDEG
2450	NP_001275996.1	364	DEGHRKKNMKRLIRELKRFRN
2451	NP_001275996.1	681	TSMLDILMDYCHLRDFNFSRL
2452	NP_001276674.1	156	IISNASCTTNCLAPLAKVIHD
2453	NP_001279.2	59	KRRTETVQKLCPPGQLPFLLY
2454	NP_001279.2	89	KIEEFLEAVLCPPRYPKLAAL
2455	NP_001279.2	178	LDGNELTLADCNLLPKLHIVQ
2456	NP_001279.2	191	LPKLLHIVQVVCCKYRGFTIPE
2457	NP_001279.2	223	AYAREEFASTCPDDEEIELAY
2458	NP_001287789.1	367	MEGITVKGKGCCKPKIKSWVQC
2459	NP_001287789.1	377	CPKPIKSWVQCGISMKILNSL
2460	NP_001287789.1	465	RELALQITKECKKFSKTLGLR
2461	NP_001287789.1	478	FSKTLGLRVVCVYGGTGISEQ
2462	NP_001287789.1	501	ELKRGAEIIVCTPGRMIDMLA
2463	NP_001287789.1	646	LKDLMRASYPMSLHGGIDQY
2464	NP_001287789.1	670	SIINDFKNGTCKLLVATSVAA
2465	NP_001287789.1	696	KHLILVVNYSCPNNHYEDYVHR
2466	NP_001288092.1	158	PSTSPKFTTSCMTGYSPQLQG
2467	NP_001288092.1	295	TLKKFQYQLACRSQAPCANKD
2468	NP_001288092.1	367	SVSTQMRMGCPPELQIGELSQ
2469	NP_001288092.1	413	TDSAIMHVFCTYLDLRLPPH
2470	NP_001288092.1	453	KPDVTNENVFCCIYQSAINPPH
2471	NP_001307.2	61	EKSQDNVIKVCASVTFKNYIK
2472	NP_001307.2	195	TNLFKATIELCSTHANDASAL
2473	NP_001307.2	325	SNAIQFLASVCERPHYKNLFE
2474	NP_001307.2	394	RAACDLVRGLCKFFEGPVTGI
2475	NP_001307.2	623	HFNHMFEAICLSIRITCKAN
2476	NP_001307.2	630	EAICLSIRITCKANPAAVVNF
2477	NP_001307.2	798	KSFLVFINLYCIKYGALALQE
2478	NP_001307.2	853	AVGITKLLTECPPMMDTEYTK
2479	NP_001340.2	76	VHTSRAKQKQCFVLVRQQQFN
2480	NP_001340.2	203	QAVFRLQSGICHFLFRETLINK
2481	NP_001340.2	257	AQSPQLYKQMCICADFEKVFS
2482	NP_001340.2	259	SPQLYKQMCICADFEKVFSIG
2483	NP_001340.2	334	EIQTVNKQFPCEPFKFLPTL
2484	NP_001347.3	175	DIPVEATGNCCPPHIESFSDV
2485	NP_001347.3	223	IIEKRDLMACAQTGSGKTA
2486	NP_001347.3	298	KFSYRSRVRPCVVYGGADIGQ
2487	NP_001347.3	468	EDFLYHEGYACTSIHGDRSQ
2488	NP_001348.2	12	GDVKNFLYAWCGKRKMTPSYE
2489	NP_001348.2	36	VGKKNRQKFMCEVQVEGYNYT
2490	NP_001348.2	415	SVVIIRGATGCGKTTQVPQFI
2491	NP_001348.2	469	FERGEEPGKSCGYSVRFESIL
2492	NP_001348.2	489	LPRPHASIMFCTVGVLLRKLLE
2493	NP_001348.2	552	MSATIDTSMFCEYFFNCPIIE
2494	NP_001348.2	558	TSMFCEYFFNCPIIEVYGRTY
2495	NP_001348.2	578	YPVQYEFLEDICQMTFVPPP
2496	NP_001348.2	608	DDGGEDDDANCNLICGDEYGP
2497	NP_001348.2	612	EDDDANCNLICGDEYGPETRL
2498	NP_001348.2	732	INDVVYVIDSCKQKVKLFTAH
2499	NP_001348.2	773	GRAGRVRPGFCFHLCSRARFE
2500	NP_001348.2	777	RVRPGFCFHLCSRARFERLET
2501	NP_001348.2	872	PRFGKMMIMGCIFYVGDAICT
2502	NP_001348.2	881	GCIFYVGDAICTIAAATCFPE
2503	NP_001348.2	888	DAICTIAAATCFPEPFINEGK
2504	NP_001348.2	940	MGGEEAERFCEHKRLNMATL
2505	NP_001348.2	973	ILINSGFPEDCLLTQVFTNTG
2506	NP_001348.2	1004	LLAFGVYPNVCYHKEKRKILT
2507	NP_001348.2	1099	KLQISHEAAACITGLRAAMEA
2508	NP_001349.2	114	GHAGHTSLPQCINPFTNLPHT

2509	NP_001349.2	174	SGKTTQIPQWCVEYMRSPLPGP
2510	NP_001349.2	345	AIRTVIQIHMCEEEEGDLLLF
2511	NP_001349.2	366	LTGQEEIDEACKRIKREVDLL
2512	NP_001349.2	579	PQLAKMVIASCDYNCNEVLS
2513	NP_001349.2	583	KMVIASCDYNCNEVLSITAM
2514	NP_001349.2	599	SITAMLSVPPQCFVRPTEAKKA
2515	NP_001349.2	644	FKQNHESVQWCYDNFINYRSL
2516	NP_001349.2	750	VLTTKNYIRTCTDIKPEWLVK
2517	NP_001349.2	774	QYYDMSNFPQCEAKRQLDRII
2518	NP_001367.2	220	HPMITNVAKQCYERGEKPKVT
2519	NP_001367.2	416	YEEFEKVMVACFEVFTWDE
2520	NP_001367.2	792	IESVRTYERTCEKVEERTIS
2521	NP_001367.2	867	IDLEVRSLETCMYDHKTFSEI
2522	NP_001367.2	978	VIYLNPPIEECRYKLYQEMFA
2523	NP_001367.2	1059	QYVKVWLQYQCLWDMQAENIY
2524	NP_001367.2	1297	FGRLKDDREKCAKAKEALELT
2525	NP_001367.2	1484	ELDLVNYQNKRLIRGWDDL
2526	NP_001367.2	1888	KLVQTPLTDRCYLTMQALEA
2527	NP_001367.2	1932	QLGRFVLVFNCDETFDFQAMG
2528	NP_001367.2	1949	QAMGRIFVGLCQVGAWGCFDE
2529	NP_001367.2	1956	VGLCQVGAWGCFDEFNRLEER
2530	NP_001367.2	1999	NYDKTSAPITCELLNKQVKVS
2531	NP_001367.2	2076	ANKIVPFFKLCDEQLSSQSHY
2532	NP_001367.2	2142	PEQEILIQSVCETMVPKLVAE
2533	NP_001367.2	2186	TALREELKKVCQEMYLYGDG
2534	NP_001367.2	2359	KYATLATVSRCGMVVSEDVL
2535	NP_001367.2	2454	EHIMDLTRLRCLGSLFSLHQ
2536	NP_001367.2	2466	GSLFSLMLHQACRNVAQYNANH
2537	NP_001367.2	2594	WLAEHKPLVLCGPPGSGKTMT
2538	NP_001367.2	2639	ELLLKTFDHYCEYRRTPNGVV
2539	NP_001367.2	2663	VQLGKWLVLFCDEINLPMDK
2540	NP_001367.2	2712	KLERIQFVGACNPPTDPGRKP
2541	NP_001367.2	2985	DLRTVLRSSGCKNEKIAFIMD
2542	NP_001367.2	3033	GDEYATLMTQCKEQAQKEGLM
2543	NP_001367.2	3089	AATSPALFNRCVLNWFQDWST
2544	NP_001367.2	3147	PSHREAIVNSCVFVHQTLLHQ
2545	NP_001367.2	3325	AAVKLALLESICLLLGESTTDW
2546	NP_001367.2	3389	YEIVNRASLACGPMVKWAIHQ
2547	NP_001367.2	3507	KNQMSTIAGDCLLSAAFIAYA
2548	NP_001367.2	3573	QASSLPADDLCTENAIMLKRF
2549	NP_001367.2	3693	DPTVEFFPDLCSRVTFFVNFV
2550	NP_001367.2	3712	TVTRSSLQSQCLNEVLKAERP
2551	NP_001367.2	3808	SQQYLPPLSTACSSIYFTMESL
2552	NP_001367.2	4044	EVKPNTPVLMCSVPGYDASGH
2553	NP_001367.2	4170	TFSSIPVSRICKSPNERARLY
2554	NP_001367.2	4216	EFGESDLRSACDVTVDWLDDT
2555	NP_001367.2	4286	RSFDSEFKLACKVDGHKDIQM
2556	NP_001367.2	4438	RQDLADVQVQCEGKKKQTNYL
2557	NP_001367.2	4510	GAKELKNIHVCLGGLFVPEAY
2558	NP_001367.2	4540	QANSWSLEELCLEVNVTTSQG
2559	NP_001367.2	4556	TTSQGATLDACSFVGTGLKLQ
2560	NP_001367.2	4570	VTGLKLQGATCNNNKLSLSNA
2561	NP_001370.1	1125	KGKGPKSQACEPSEPEIEIK
2562	NP_001370.1	1339	EPLHVFAPRACQLSVVDDKK
2563	NP_001393.1	31	STTTGHLIYKCGGIDKRTIEK
2564	NP_001393.1	111	NMITGTSQADCAVLIVAAGVG
2565	NP_001393.1	370	VLDCHTAHIACKFAELKEKID
2566	NP_001395.1	68	VPAFEGDDGFCVFESNAIAYY
2567	NP_001395.1	166	RVTLADITVVCTLLWLYKQVL
2568	NP_001395.1	194	FPNTNRWFLTCINQPQFRAVL
2569	NP_001395.1	210	FRAVLGEVKLCEKMAQFDACK
2570	NP_001395.1	339	PEELTQTFMSCNLITGMFQRL
2571	NP_001406.1	96	AKIYKLDPPSCPRPECYRSCG
2572	NP_001406.1	101	LDDPSCPRPECYRSCGSSTPD
2573	NP_001406.1	105	SCPRPECYRSCGSSTPDEFPT
2574	NP_001406.1	135	KLVRHVSFVDCPGHDILMATM
2575	NP_001406.1	165	ALLLIAGNESCPQPQTEHLA
2576	NP_001406.1	236	AQLKYNIEVVCEYIVKKIPVP
2577	NP_001406.1	269	IRSFVKNKPGCEVDDLKGGVA
2578	NP_001406.1	348	GVGTKIDPTLCRADRMVGQVL
2579	NP_001419.1	339	AKAVNEKSCNCLLLKVNQIGS
2580	NP_001419.1	357	IGSVTESLQACKLAQANGWV
2581	NP_001419.1	389	TFIADLVVGLCTGQIKTGAPC
2582	NP_001427.2	99	EPHRHEGVFICRGKEDALVTK
2583	NP_001435.1	43	RKMGAMAKPDCIITCDGKNLT
2584	NP_001435.1	47	AMAKPDCIITCDGKNLTIKTE

2585	NP_001435.1	67	ESTLKTTFQFSCSTLGEKFEETT
2586	NP_001435.1	87	TADGRKTQTVCNFTD GALVQH
2587	NP_001447.2	717	LRVQVQDNEGCPVEALVKDNG
2588	NP_001447.2	1157	GSPFKAHVVPFCF DASKVKCSG
2589	NP_001447.2	1165	VPCFDASKVKCSG PGLERATA
2590	NP_001447.2	1225	GTHTITYIPLCPGAYTVTIKY
2591	NP_001447.2	1715	TAPQPGKYVICVRF GGEHVPN
2592	NP_001447.2	1857	PLQFYVDYVNCGHVTAYGPGL
2593	NP_001447.2	2471	PSKVKMDCQECPEGYRVTYTP
2594	NP_001460.1	66	ELTPFDMSIQCIQSVYISKI I
2595	NP_001460.1	150	DYSLSEVLWVCANLFS DVQFK
2596	NP_001460.1	389	STLFSALLIKCLEKEVAALCR
2597	NP_001460.1	585	KFTVPMLEACRAYGLKSGLK
2598	NP_001524.2	151	LVEFEDVLGACNAVNYAADNQ
2599	NP_001524.2	215	SITTDVLYTICNPGCPVQRIV
2600	NP_001524.2	218	TDVLYTICNPGCPVQRIVIFR
2601	NP_001524.2	261	LNGADIYSGCCTLKI EYAKPT
2602	NP_001524.2	396	VYGLDQSKMNCDRVFN VFCLY
2603	NP_001524.2	404	MNCDRVFN VFCLYGNVEKVKF
2604	NP_001524.2	452	NFMFGQKLNVCVSKQPAIMPG
2605	NP_001524.2	521	EVTEENFFEICDELGVKR PSS
2606	NP_001527.3	9	XXMAAAEAANCIMENF VATLA
2607	NP_001527.3	33	SLQPPLEEVSCGQAESSEKPN
2608	NP_001527.3	103	LDVGS GTGILCMFAAKAGARK
2609	NP_001527.3	167	DIIISEWMGYCLFYESMLNTV
2610	NP_001527.3	226	WENVYGFDMSCIKDVAIKEPL
2611	NP_001527.3	250	VDPKQLVTNACL I KEVDIYTV
2612	NP_001527.3	295	VAYFNIEFTRCHKRTGFSTSP
2613	NP_001527.3	364	DFKGQLCELS CSTDYRMRXXX
2614	NP_001651.1	159	RNRTWYVQATCATQGTGLYEG
2615	NP_001672.1	70	LLVRILLLAACISFVLAWFEE
2616	NP_001672.1	268	EQLSKVISLICIAVWI INIGH
2617	NP_001672.1	318	PEGLPAVITTC LALGTRRMAK
2618	NP_001672.1	364	GTLTTNQMSVCRMFI LDRVEG
2619	NP_001672.1	377	FILDRVEGDTCSLNEFTITGS
2620	NP_001672.1	404	EVHKDDKPVNCHQYDGLVELA
2621	NP_001672.1	417	YDGLVELATICALCNDSALDY
2622	NP_001672.1	420	LVELATICALCNDSALDYNEA
2623	NP_001672.1	471	GLSKIERANACNSVIKQLMKK
2624	NP_001672.1	498	SRDRKSMSVYCTPNKPSRTSM
2625	NP_001672.1	524	KGAPEGVIDRCTHIRVGSTKV
2626	NP_001672.1	560	EWGSGSDTLRCLALATHDNPL
2627	NP_001672.1	595	KYETNLTFVGC VGM LDPRIE
2628	NP_001672.1	613	RIEVASSVKLCRQAGIRVIMI
2629	NP_001672.1	635	GDNKGTAVAICRRIGIFGQDE
2630	NP_001672.1	669	ELNPSAQRDA CLNARCFARVE
2631	NP_001672.1	674	AQRDA CLNARCFARVEPSHKS
2632	NP_001672.1	773	LISSNVGEVVCIFLTAALGFP
2633	NP_001672.1	841	WLF FRYLAIGCYVGAATVGAA
2634	NP_001672.1	875	SFYQLSHFLQCKEDNPDFEGV
2635	NP_001672.1	887	EDNPDFEGVDCAIFESPYPMT
2636	NP_001672.1	909	ALSVLVTIEMCNALNSLSENQ
2637	NP_001672.1	937	WENIWLVGSICLSMSLHFLIL
2638	NP_001686.1	225	VLSEDQDSYLCNVTLFRKAVD
2639	NP_001686.1	376	YYPYVYKIDCNLLEFPKXXXX
2640	NP_001739.2	39	NQDYEARNECLEAGTLFQDP
2641	NP_001739.2	98	IIGGATRTDICQ GALGDCWLL
2642	NP_001739.2	105	TDICQ GALGDCWLLA IASLT
2643	NP_001739.2	191	LEKAYAKINGCYEALSGGATT
2644	NP_001739.2	240	KALQKGSLLGCSIDITSAADS
2645	NP_001739.2	301	VEWTGRW D NCP SWNTIDPEE
2646	NP_001739.2	341	FLRHYSRLEICNLTPDTLTS
2647	NP_001739.2	374	NWRRGSTAGGCRNYPTFWMN
2648	NP_001739.2	405	DEDEEDGESGCTFLVGLIQKH
2649	NP_001739.2	577	IKSDGFSIETCKIMVMDLSD
2650	NP_001739.2	640	ALEEAGFKMPCQLHQVIVARF
2651	NP_001739.2	665	LIIDFDFNVRCLVRL ETLFKI
2652	NP_001782.1	157	RDLKAVKYVECSALTQKGLKN
2653	NP_001887.1	148	MYELLKALDYCHSKGIMHRDV
2654	NP_001887.1	221	DYSLDMWSLGCMLASMI FRRE
2655	NP_001896.2	30	ASSVGTILKSCGLHVTSIKID
2656	NP_001896.2	143	VDEDGLEPQVCVIELGGTVGD
2657	NP_001896.2	176	FQFKVKRENF CNIHVSLVPQP
2658	NP_001896.2	216	GLGLSPDLVVCRC SNPLDTSV
2659	NP_001896.2	218	GLSPDLVVCRC SNPLDTSVKE
2660	NP_001896.2	234	TSVKEKISM FCHVEPEQVICV

2661	NP_001896.2	243	FCHVEPEQVICVHDVSSIYRV
2662	NP_001896.2	299	ADRYDRLLLETCSIALVVKYTK
2663	NP_001896.2	362	VRYHEAWQKLCSAHGVLPVGG
2664	NP_001896.2	399	RNQKKPFLGVCLGMQLAVVEF
2665	NP_001896.2	559	GRLSHYLQKGCRLSPRDTYS
2666	NP_001952.1	67	TDTRKDEQERCITIKSTAISL
2667	NP_001952.1	131	VTDGALVVVDCVSGVCVQTET
2668	NP_001952.1	136	LVVVDCVSGVCVQTETVLRQA
2669	NP_001952.1	388	DDEAAMGIKSCDPKGPLMMYI
2670	NP_001952.1	466	RYVEPIEDVPCGNIVGLVGV
2671	NP_001952.1	536	RLAKSDPMVQCIIEESGEHII
2672	NP_001952.1	557	AGAGELHLEICLKDLEEDHAC
2673	NP_001952.1	567	CLKDLEEDHACIPIKKSDPVV
2674	NP_001952.1	651	WDVAEARKIWCFGPDGTGPN
2675	NP_001952.1	728	GGQIIPARTARRCLYASVLT
2676	NP_001952.1	751	MEPIYLVEIQCPQVVGGIYG
2677	NP_001952.1	812	SNTGGQAFPQCVDHWQILPG
2678	NP_002005.1	103	AIATMKVGEVCHITCKPEYAY
2679	NP_002005.1	107	MKVGEVCHITCKPEYAYGSAG
2680	NP_002005.1	328	RLASHLNLAMCHLKLQAFSAA
2681	NP_002005.1	342	LQAFSAAIESCNKALELDSNN
2682	NP_002038.2	41	LLRRSLSAASCPIISLPAAAS
2683	NP_002038.2	155	SGLYDFGPGVGCALKNNIIQTW
2684	NP_002038.2	180	IQEEQILEIDCTMLTPEPVLK
2685	NP_002038.2	211	FMVKDVKNCEFRADHLLKAH
2686	NP_002038.2	231	HLQKLMSSDKKCSVEKSEMES
2687	NP_002038.2	442	HMENEMAHYACDCWDAESKTS
2688	NP_002038.2	444	ENEMAHYACDCWDAESKTSYG
2689	NP_002038.2	461	TSYGWIEIVGCADRSCYDLSC
2690	NP_002038.2	471	CADRSCYDLSCHARATKVPLV
2691	NP_002038.2	522	AKLVMEYLAICDECYITEMEM
2692	NP_002038.2	525	VMEYLAICDECYITEMEMLLN
2693	NP_002038.2	616	SFPVAVAPFKCSVLPVLSQSQE
2694	NP_002047.2	236	YRTGKDKKGCNSLSRVDSTTC
2695	NP_002047.2	246	CNSLSRVDSTTCLFPVEEKAVE
2696	NP_002047.2	366	LKDHIKEIQRCRRLILACGT
2697	NP_002047.2	374	QRCRRLILACGTSYHAGVAT
2698	NP_002047.2	417	RNTPVFRDDVCFVLSQSGETA
2699	NP_002047.2	436	TADTLMGLRYCKERGALTVGI
2700	NP_002047.2	460	VGSSISRETDCGVHINAGPEI
2701	NP_002047.2	493	VSLVMFALMMCDRIISMQERR
2702	NP_002047.2	552	IMGRGYHYATCLEGALKIKEI
2703	NP_002047.2	602	IIMRDHTYAKCQNALQQVVAR
2704	NP_002047.2	620	VARQGRPVVICDKEDTETIKN
2705	NP_002047.2	643	RTIKVPHSVDCLOGLLSVIPL
2706	NP_002061.1	66	IHEDGYSEEECRQYRAVVYSN
2707	NP_002061.1	140	RLWADHGVQACFGRSREYQLN
2708	NP_002061.1	215	QRSERKKWIHC FEGVTAIIFC
2709	NP_002061.1	225	CFEGVTAIIFCVALSAYDLVL
2710	NP_002061.1	255	HESMKLFDSICNNKWFDTDSI
2711	NP_002061.1	287	EKITHSPLTICFPEYTGANKY
2712	NP_002061.1	326	DTKEIYTHFTCATDTKNVQFV
2713	NP_002083.3	15	RWVLGALLRGCNCNCSSCRRT
2714	NP_002083.3	17	VLGALLRGCNCNCSSCRRTGA
2715	NP_002083.3	19	GALLRGCNCNCSSCRRTGAAC
2716	NP_002083.3	22	LRGCNCNCSSCRRTGAACLPF
2717	NP_002083.3	29	CSSCRRTGAACLPFYSAAGSI
2718	NP_002085.2	30	GSSSSDSAPDCWDQADMEAPG
2719	NP_002085.2	130	VESSQEEQSLCEGSNSAVSME
2720	NP_002085.2	375	VNWSNEREYEECKEKLVPFLKK
2721	NP_002085.2	399	NPKKDIHFMPCSGLTGANLKE
2722	NP_002085.2	414	GANLKEQSDFCPWYIGLPIFIP
2723	NP_002085.2	519	EEEILPGFILCDPNNLCHSGR
2724	NP_002085.2	525	GFILCDPNNLCHSGRTFDAQI
2725	NP_002085.2	545	IVIEHKSIICPGYNAVLHIH
2726	NP_002085.2	557	GYNVAVLHIHTCIEVEITALI
2727	NP_002085.2	591	RPRFVKQDQVCIARLRTAGTI
2728	NP_002085.2	602	IARLRTAGTICLETFKDFPQM
2729	NP_002102.4	105	SATKKDRVNHCLTICENIVAQ
2730	NP_002102.4	109	KDRVNHCLTICENIVAQSVRN
2731	NP_002102.4	137	LGIAMELFLLCSDDAESDVRM
2732	NP_002102.4	152	ESDVRMVADECLNKVIKALMD
2733	NP_002102.4	204	ELAHLVRPQKCRPYLVNLLPC
2734	NP_002102.4	214	CRPYLVNLLPCLTRTSKRPEE
2735	NP_002102.4	280	RTAAGSAVSICQHSRRTQYFY
2736	NP_002102.4	433	VELIAGGGSSCSPVLSRKQKG

2737	NP_002102.4	517	LQADSVDLASCDLTSSATDGD
2738	NP_002102.4	638	QAHLKLNMSHCRQPSDSSVVK
2739	NP_002102.4	686	TDDDSAPLVHCVRLLSASFLL
2740	NP_002102.4	720	RVSVKALALSCVGAVALHPE
2741	NP_002102.4	774	PQVRGATAILCGTLCISILSR
2742	NP_002102.4	779	ATAILCGTLCISILSRSRFHV
2743	NP_002102.4	809	LTGNTFSLADCIPLLRKTLKD
2744	NP_002102.4	825	KTLKDESSVTCKLACTAVRNC
2745	NP_002102.4	829	DESSVTCKLACTAVRNCVMSL
2746	NP_002102.4	835	CKLACTAVRNCVMSLCSSSYS
2747	NP_002102.4	840	TAVRNCVMSLCSSSYSELGLQ
2748	NP_002102.4	944	IRLVPKLFYKCDQGGADPVVA
2749	NP_002102.4	1027	TSTTRALTFGCCEALCLLSTA
2750	NP_002102.4	1028	STTRALTFGCCEALCLLSTAF
2751	NP_002102.4	1032	ALTFGCCEALCLLSTAFPVCI
2752	NP_002102.4	1041	LCLLSTAFPVCIWSLGWHCGV
2753	NP_002102.4	1049	PVCIWSLGWHCGVPPLSASDE
2754	NP_002102.4	1064	LSASDESRRKCTVGMATMILT
2755	NP_002102.4	1154	FSHLLKVINICAHVLDVAPG
2756	NP_002102.4	1291	ELATLQDIGKCVVEILGYLKS
2757	NP_002102.4	1302	VEEILGYLKSFCFSREPMATV
2758	NP_002102.4	1313	FSREPMATVCVQQLKTLFG
2759	NP_002102.4	1360	SSVRPGLYHYCFMAPYTHFTQ
2760	NP_002102.4	1465	AQLVQLRVNYCLLSDQVFIG
2761	NP_002102.4	1526	IIGIPKIIQLCDGIMASGRKA
2762	NP_002102.4	1597	LEMFIILVLQQCHKENEDKWKR
2763	NP_002102.4	1710	ELSFSPYLISCTVINRLRDGD
2764	NP_002102.4	1775	EMSEQHTFYCQELGTLMLCL
2765	NP_002102.4	1784	YCQELGTLMLCLIHIFKSGMF
2766	NP_002102.4	1810	AATRLFRSDGCGGSFYTLDSL
2767	NP_002102.4	1839	TTHPALVLLWCQILLLVNHTD
2768	NP_002102.4	1891	DSDLAAKLGMCNREIVRRGAL
2769	NP_002102.4	1905	IVRRGALILFCDYVCQNLHDS
2770	NP_002102.4	1909	GALILFCDYVCQNLHDSHLT
2771	NP_002102.4	1963	GLFIQAIQSRCENLSTPTMLK
2772	NP_002102.4	1978	TPTMLKKTLCQLEGIHLSQSG
2773	NP_002102.4	2000	VLTLYVDRLLCTPFRVLARMV
2774	NP_002102.4	2015	VLARMVDILACRRVEMLLAAN
2775	NP_002102.4	2110	DWYVHLVKSQCWTRSDSALLE
2776	NP_002102.4	2150	SEFNLSLLAPCLSLGMSEISG
2777	NP_002102.4	2283	LSLDLQAGLDCCCLALQLPGL
2778	NP_002102.4	2284	SLDLQAGLDCCCLALQLPGLW
2779	NP_002102.4	2285	LDLQAGLDCCCLALQLPGLWS
2780	NP_002102.4	2307	VSSTEFVTHACSLIYCVHFIL
2781	NP_002102.4	2312	FVTHACSLIYCVHFILEAVAV
2782	NP_002102.4	2362	TQNPKYITAACEMVAEMVESL
2783	NP_002102.4	2528	VPVAGNPAVSCLEQQPRNKPL
2784	NP_002102.4	2673	KHRAGVDIHSQSQFLELYSR
2785	NP_002102.4	2749	ILAQYLVDPATCKAAAVLGMKD
2786	NP_002102.4	2794	ALHGVLYVLECDLLDDTAKQL
2787	NP_002102.4	2822	LLSNLKGIAHCVNIHSQQHVL
2788	NP_002102.4	2835	IHSQQHVLVMCATAFYLIENY
2789	NP_002102.4	2861	PEFSASIIQMGVMLSGSEES
2790	NP_002102.4	2879	EESTPSIIYHCALRGLERLLL
2791	NP_002102.4	2927	AMAALGLMLTCMYTGKEKVS
2792	NP_002102.4	2973	LFDRIRKGFPCPEARVVARILP
2793	NP_002102.4	3060	PVAMATWLSLSCFFVASTSPW
2794	NP_002102.4	3094	KLEQVDVNLFCVATDFYRHQ
2795	NP_002102.4	3134	PGSPYHRLTCLRNVHKVTTC
2796	NP_002107.3	125	GSHTIQIMYGCDVGSDFRFLR
2797	NP_002107.3	188	EQLRAYLDGTCVEWLRRYLEN
2798	NP_002107.3	227	PISDHEATLRCWALGFYPAEI
2799	NP_002107.3	283	VPSGEEQRYTCHVQHEGLPKP
2800	NP_002129.2	226	DNKTNKRRGFCFITFKKEEPV
2801	NP_002129.2	252	KKYHNVGLSKCEIKVAMSKEQ
2802	NP_002145.3	13	VVGIDLGFQSCYVAVARAGGI
2803	NP_002145.3	38	NEYSRDRCTPACISFGPKNRSI
2804	NP_002145.3	140	ESVLKPPVVDVSVPCFYTD
2805	NP_002145.3	146	PVVDCVSVPCFYTDAERRSV
2806	NP_002145.3	167	MDATQIAGLNCLRLMNETTAV
2807	NP_002145.3	213	MGHSAYQVSVCAFNRGKLV
2808	NP_002145.3	245	KFDEVLVNHFCEEFGKKYKLD
2809	NP_002145.3	270	IRALLRLSQECEKLLKLSAN
2810	NP_002145.3	290	NASDLPLSIECFMNDVDVSGT
2811	NP_002145.3	310	TMNRGKFLMCNDLLARVEPP
2812	NP_002145.3	376	LNADEAVTRGCALQCAILSPA

2813	NP_002145.3	380	EAVTRGCALQCAILSPAFAKVR
2814	NP_002145.3	779	EAKIKELTSTCSPIIISKPKPK
2815	NP_002147.2	447	VLGGGCALLRCPALDSLTPA
2816	NP_002215.2	36	ISTLGLVDDRCVVEPAAGDLD
2817	NP_002215.2	55	LDNPPKKFRDCLFKVCPMNR
2818	NP_002215.2	60	KKFRDCLFKVCPMNRYSAQKQ
2819	NP_002215.2	207	SNYELSDNAGCKEVNSVNCNT
2820	NP_002215.2	215	AGCKEVNSVNCNTSWKINLFM
2821	NP_002215.2	254	FHAEQEKFLTCDEYKGLQVF
2822	NP_002215.2	293	WEVEVVHHDPCRGGAGHWNGL
2823	NP_002215.2	353	RRNAGEKIKYCLVAVPHGNDI
2824	NP_002215.2	393	RNSYVRLRHLCTNTWIQSTNV
2825	NP_002215.2	420	ERP IRLMLGTCPTKEDKEAFA
2826	NP_002215.2	556	NAPYQHMFRLCYRVLRHSQED
2827	NP_002215.2	638	PRFLDYLSDLCVSNHIAIPVT
2828	NP_002215.2	653	IAIPVTQELICKCVLDPKNSD
2829	NP_002215.2	655	IPVTQELICKCVLDPKNSDIL
2830	NP_002215.2	740	RYQLKLFARMCLDRQYLAIDE
2831	NP_002215.2	763	QQLGVDLIFLCMADEMLPFDL
2832	NP_002215.2	778	MLPFDLRASFCHMLMLHVHVD
2833	NP_002215.2	894	LTRTLGLGIDCVQGPAMLQA
2834	NP_002215.2	1183	KGILERLNKMGVGEQMRKKQ
2835	NP_002215.2	1236	RYTHQFLQKFCAGNPGNQALL
2836	NP_002215.2	1275	QHIFLNMYQLCSEISEPVLQH
2837	NP_002215.2	1317	IKAEGKYVKKCQDMIMTELTN
2838	NP_002215.2	1375	HISLVDLLAACAEGKNVYTEI
2839	NP_002215.2	1387	EGKNVYTEIKCTSLLPLEDVV
2840	NP_002215.2	1405	DVSVVTHEDCITEVKMAYVN
2841	NP_002215.2	1420	KMAYVNFVNHCVYDTEVEMKE
2842	NP_002215.2	1452	ENFTLDMARVCSKREKRVADP
2843	NP_002215.2	1525	QQQHKGSVEACIRTLAMVAKG
2844	NP_002215.2	1558	ISSMLSSGASCAAAAQRNASS
2845	NP_002215.2	1638	FLEGSEAYQRCESGGFLSKLI
2846	NP_002215.2	1662	KDLMESEEKLCIKVLRTLQOM
2847	NP_002215.2	1726	PDWSAIAATQCRLDKEGATKL
2848	NP_002215.2	1738	LDKEGATKLVCDLITSTKNEK
2849	NP_002215.2	1881	QPILRFLQLLCENHNRLQNF
2850	NP_002215.2	1894	HNRDLQNFRLRCQNNKTNYNLV
2851	NP_002215.2	1915	CETLQFLDIMCGSTTGGGLLL
2852	NP_002215.2	1948	IQTLETLTEYCGPCHENQTC
2853	NP_002215.2	1952	ETLLETCQGPCHENQTCIVTH
2854	NP_002215.2	1958	CQGPCHENQTCIVTHESNGID
2855	NP_002215.2	1982	ALILNDI SPLCKYRMDLVLQL
2856	NP_002215.2	2144	EQIVFPVPGICQFLTEETKHR
2857	NP_002215.2	2248	LISLLFWILICFSIAALFTKR
2858	NP_002215.2	2425	PHGAAAFVDTCSGDKMDCVSG
2859	NP_002215.2	2432	VDTCSGDKMDCVSGLSVPEVL
2860	NP_002215.2	2455	DRELDSTERACDTLLMCIVTV
2861	NP_002215.2	2461	TERACDTLLMCIVTVMNHGLR
2862	NP_002215.2	2538	QKKEEILKTTFCIGLERDKF
2863	NP_002215.2	2541	EEILKTTFCIGLERDKFDNK
2864	NP_002254.2	95	QKVSKKTGPRCSTAIATGLKN
2865	NP_002254.2	153	LCDLNAELKRCRERTQTLDQE
2866	NP_002254.2	315	QELKGNIRVFCRVRPVLPGEP
2867	NP_002254.2	405	VQSALDGYPVCI FAYGQTGSG
2868	NP_002254.2	485	TGTRKGQGECEIRRAGPGSE
2869	NP_002254.2	509	VTNARYVPVSCEKEVDALLHL
2870	NP_002254.2	557	SGEHSSRGLQCGAPLSLVDLA
2871	NP_002254.2	663	SLRFASKVNQCIVIGTAQANRK
2872	NP_002259.1	122	KSGILPILVHCLERDDNPSLQ
2873	NP_002259.1	174	RLHSPHQNVCEQAVWALGNI
2874	NP_002259.1	191	LGNIIGDGPQCRDYVILSGVV
2875	NP_002259.1	228	RNVTWVMVNLCRHKDPPPPME
2876	NP_002259.1	248	ETIQEILPALCVLIHHTDVNI
2877	NP_002259.1	325	TDEQTQVVLNCDALSHFPALL
2878	NP_002259.1	417	LIQQNVIPPFNLLTVKDAQV
2879	NP_002259.1	456	AETIGNLIEECGGLEKIEQLQ
2880	NP_002262.3	128	ETQSSMRKKVCDIAAELARNL
2881	NP_002262.3	198	LDVIKRMLVQCMQDQEHPSIR
2882	NP_002262.3	247	PGFLQAVNDSCYQNDSDVLKS
2883	NP_002262.3	284	EATLQLSLKLCGDTSLNNMQR
2884	NP_002262.3	366	AGESALDRMACGLGGKLVLP
2885	NP_002262.3	407	LMALSAIGEGCHQQMEGILNE
2886	NP_002262.3	705	EKSTACQMLVCYAKELKEGFV
2887	NP_002262.3	794	LSEIMHSFAKCI EVMGDGCLN
2888	NP_002289.2	140	INKALENDPDCRHVIMPNPNT

2889	NP_002289.2	164	FNAVGDGIVLCKMINLSVPDT
2890	NP_002289.2	206	LALNSASAIGCHVVNIGAEDL
2891	NP_002289.2	283	WANYHLENAGCNKIGNFSTDI
2892	NP_002289.2	346	CMLQQAERLGCRQFVTATDVV
2893	NP_002289.2	618	NPKMVMTVFACLGMGKMKRVX
2894	NP_002379.3	164	KHVSPrTLTSCFLSCVVCVEG
2895	NP_002379.3	168	PRTLtSCFLSCVVCVEGIVTK
2896	NP_002379.3	171	LtSCFLSCVVCVEGIVTKCSL
2897	NP_002379.3	179	VVCVEGIVTKCSLVRPKVVRS
2898	NP_002379.3	193	RPKVRSVHYCPATKKTIERR
2899	NP_002379.3	288	DRVQVVGTYRCLPGKKGYS
2900	NP_002379.3	308	SGTFRTVLIACNVKQMSKDAQ
2901	NP_002379.3	364	GHdYVKKAILCLLLGGVERDL
2902	NP_002379.3	452	AMVLADRGVVCIDeFDKMSDM
2903	NP_002379.3	491	AGIHARLNARCSVLAANPVY
2904	NP_002403.2	25	RPQVLAVRTVCDLVLGKMDKD
2905	NP_002403.2	36	DLVLGKMDKDCEMKRtTLdSP
2906	NP_002403.2	55	SPLGKLELSGCEQGLHEIKLL
2907	NP_002403.2	93	VLGGPEPLMQCTAWLNAYFHQ
2908	NP_002403.2	176	RGNPVPILIPCHRVCSSGAV
2909	NP_002408.3	27	GPHFPLSLSTCLFGRGIECDI
2910	NP_002408.3	35	STCLFGRGIECDIRIQLPVVS
2911	NP_002408.3	49	IQLPVVSKQHCKIEIHEQEAI
2912	NP_002408.3	226	GELKSVPTTQCLDNSKKNESP
2913	NP_002408.3	475	EKLGTtAGQMCSGLPGLSSVD
2914	NP_002408.3	599	PVAsDQRRRSCKTAPASSSKS
2915	NP_002408.3	643	RSQHDILQMICSKRRSGASEA
2916	NP_002408.3	715	QFSTGHANSPCTIIIGKAHTE
2917	NP_002408.3	773	VKEQPQLTSTCHIAISNSENL
2918	NP_002408.3	834	CSAsPPLRRQCIRENGNVAKT
2919	NP_002408.3	903	SEETNTEIVECILKRQKATL
2920	NP_002408.3	958	MKRSRtWGQKCAPMSDLtDLK
2921	NP_002408.3	1129	MTDEKtTKIACKSPPEsVDT
2922	NP_002408.3	2206	GLKELFQTPICtDKPtTHEKT
2923	NP_002408.3	2603	LtDTATStKRCPKtRPRKEVK
2924	NP_002408.3	3155	PRDKVTENKRCLRSARQNESS
2925	NP_002408.3	3199	KGEAGNSDSMCLRSRtKSQP
2926	NP_002408.3	3229	VQRVtRSVKRCAENPKKAEDN
2927	NP_002408.3	3241	ENPKKAEDNVcVKKIRtRSHR
2928	NP_002446.3	158	GKMAAPMELFCWSGGWGLPSV
2929	NP_002446.3	380	QVHLRGLHNLcAYCTHILSLY
2930	NP_002446.3	383	LRGLHNLcAYCTHILSLYFPW
2931	NP_002464.1	118	GLIYtYSGLFCVVINPYKNLP
2932	NP_002464.1	569	PKQLKDKADFCIiHYAGKVDY
2933	NP_002464.1	694	DPhLVLDQLRCNGVLEGIrIC
2934	NP_002464.1	704	CNGVLEGIrICRQGFpNRVVF
2935	NP_002464.1	740	PKGFMDGKQACVLMIKALELD
2936	NP_002464.1	789	ITDVIIGFQACCRGYLARKAF
2937	NP_002464.1	790	TdVIIGFQACCRGYLARKAFA
2938	NP_002464.1	896	QEQLQAEtELCAEAELRARL
2939	NP_002464.1	931	EARVEEEEEERCQHLQAEKKKM
2940	NP_002464.1	1650	LRKLQAMKDCMRELDdTRAS
2941	NP_002464.1	1834	DNEtKERQAACKQVRREtEKKL
2942	NP_002473.2	84	GKKYGETANECGEAFFfYGKS
2943	NP_002473.2	568	YVQAVEEFQsCLNLQEQYLEA
2944	NP_002523.2	103	PALSQYQRLLCINpPLFEIYQ
2945	NP_002523.2	155	EFEGGKStVNCStTPVAERFF
2946	NP_002523.2	312	AAEDNYGYDACA VLCLPCVPN
2947	NP_002523.2	316	NYGYDACA VLCLPCVPnILVI
2948	NP_002523.2	319	YDACA VLCLPCVPnILVIATE
2949	NP_002523.2	336	IATESGMLYHCVVLEGEEDD
2950	NP_002523.2	368	DLIPSLYVFECVELELALKLA
2951	NP_002523.2	391	EDDPFDSDfSCPVKLHRDPKC
2952	NP_002523.2	401	CPVKLHRDPKCPsRYHCTHEA
2953	NP_002523.2	407	RDPKCPsRYHCTHEAGVHsvG
2954	NP_002523.2	447	SLQELStEQKCFVEHILCTKP
2955	NP_002523.2	454	EQKCFVEHILCTKPLPCRQPA
2956	NP_002523.2	460	EHILCTKPLPCRQpAPIRGFw
2957	NP_002523.2	482	VPDILGPTMICITStYECLIW
2958	NP_002523.2	489	TMICITStYECLIWpLLStVH
2959	NP_002523.2	507	TVHPAsPpLLCTREDVEVAES
2960	NP_002523.2	561	EKDIApPPEECLQLLSRAtQV
2961	NP_002523.2	608	KKQLEdLSYCREERKSLREM
2962	NP_002645.3	49	PITARNTGIICtIGPASRSVE
2963	NP_002678.2	249	PHLFYIPGRMCpATQKLIEES
2964	NP_002694.3	12	ELEELGIREECGVFGCIASGE

2965	NP_002694.3	17	GIREECGVFGCIASGEWPTQL
2966	NP_002694.3	105	ATTGKCELENCQPFVVELLHG
2967	NP_002694.3	207	VRDPYGNRPLCIGRLIPVSDI
2968	NP_002694.3	237	TEGWVVSSESFLSFGARYY
2969	NP_002694.3	280	SRSEGNPVAFCIFEYVYFARP
2970	NP_002694.3	306	DQMVYTVRYRCGQQLAIEAPV
2971	NP_002694.3	339	TPAALAYAGKCGLPYVEVLCK
2972	NP_002694.3	348	KCGLPYVEVLCKNRYVGRTFI
2973	NP_002694.3	426	RVASPPIKYPCFMGINIPTKE
2974	NP_002694.3	496	MIQENGNLECFEKSNGHCTAC
2975	NP_002694.3	503	GLECFEKSNGHCTACTLTKYPV
2976	NP_002694.3	506	CFEKSNGHCTACTLTKYPVELE
2977	NP_002708.1	13	GAGGGNDIQWCFSQVKGAVDD
2978	NP_002708.1	239	ITAAEFHPNSCNTFVYSSSKG
2979	NP_002708.1	254	YSSSKGTIRLCDMRASALCDR
2980	NP_002708.1	262	RLCDMRASALCDRHSLKFEEP
2981	NP_002708.1	341	SKLCSLYENDCIFDKFECCWN
2982	NP_002708.1	348	ENDCIFDKFECCWNGSDSVVM
2983	NP_002708.1	349	NDCIFDKFECCWNGSDSVVMT
2984	NP_002708.1	398	PRTVLKPRKVCASGKRKKDEI
2985	NP_002746.1	121	IIRELQVLHECNSPYIVGFYG
2986	NP_002746.1	142	AFYSDGEISICMEHMDGGSLD
2987	NP_002746.1	207	LVNSRGEIKLCDFGVSGQLID
2988	NP_002746.1	341	SLEFQDFVNKCLIKNPAERAD
2989	NP_002746.1	376	AAEVDFAGWLCSTIGLNQ PST
2990	NP_002755.1	60	GEDVYIVQSGCGEINDNLMEL
2991	NP_002755.1	77	LMELLIMINACKIASASRVTA
2992	NP_002755.1	91	SASRVTAVIPCFPYARQDKKD
2993	NP_002755.1	226	AILLVDDMADTCGTICHAADKL
2994	NP_002755.1	230	DDMADTCGTICHAADKLLSAG
2995	NP_002755.1	284	TIPQEDKMKHCSKIQVIDISM
2996	NP_002782.1	78	HLFKITENIGCVMTGMTADSR
2997	NP_002782.1	115	YGYEIPVDMLCKRIADISQVY
2998	NP_002782.1	136	TQNAEMRPLGCCMILIGIDEE
2999	NP_002782.1	137	QNAEMRPLGCCMILIGIDEEQ
3000	NP_002782.1	154	DEEQGPQVYKCDPAGYYCGFK
3001	NP_002782.1	161	VYKCDPAGYYCGFKATAAGVK
3002	NP_002782.1	201	FEQTVETAITCLSTVLSIDFK
3003	NP_002784.1	71	FSIHTRDSPKCYKLTDKTVIG
3004	NP_002784.1	82	YKLTDKTVIGCSGFHGDCLTL
3005	NP_002784.1	89	VIGCSGFHGDCLTLTKIIEAR
3006	NP_002786.2	122	LDPKTFKPFICSLDLIGCPMV
3007	NP_002786.2	129	PFICSLDLIGCPMVTDDFVVS
3008	NP_002786.2	142	VTDDFVVSQCAEQMYGMCES
3009	NP_002786.2	150	GTCAEQMYGMCESLWEPNMDP
3010	NP_002795.2	121	IDLDSQRKKGKCAVIKTSTRQT
3011	NP_002795.2	387	PDVNYEELARCTDDFNQAQCK
3012	NP_002795.2	396	RCTDDFNQAQCKAVCV EAGMI
3013	NP_002795.2	400	DFNQAQCKAVCV EAGMIALRR
3014	NP_002797.3	97	ATNGPRYVVGCRRLDKSKLK
3015	NP_002797.3	207	LARAVASQLDCNFKLVSSSI
3016	NP_002797.3	242	MFNYARDHQPCIIIFMDEIDAI
3017	NP_002799.3	139	LAMTMSGERECLKYRLVGSQE
3018	NP_002799.3	205	NMAHNAEHEACDLLMEIEQVD
3019	NP_002799.3	230	DIDENAYAKVCLYLTSVNYV
3020	NP_002799.3	236	YAKVCLYLTSVNYVPEPENS
3021	NP_002799.3	251	PEPENSALLRCALGVFRKFSR
3022	NP_002799.3	285	MELVEDIFTSCKDQVVVQKQMA
3023	NP_002799.3	448	DYIKSGALLACGIVNSGVRNE
3024	NP_002799.3	522	MEVAGVTALACGMIAVGSCNG
3025	NP_002799.3	530	LACGMIAVGSCNGDVTSTILQ
3026	NP_002799.3	598	RSFANTLVDVCA YAGSGNVLK
3027	NP_002799.3	616	VLKVQQLLHICSEHFDSKEKE
3028	NP_002799.3	779	THLGKGTTLCPYHSDRQLMS
3029	NP_002804.2	81	QVRTARHNIICLQNDHKAVMK
3030	NP_002804.2	216	TRWAGKGLLGCNIIPLQRXXX
3031	NP_002806.2	110	EAATGQEV ELCLECI EWAKSE
3032	NP_002806.2	113	TGQEV ELCLECI EWAKSEKRT
3033	NP_002806.2	202	SARTTANAICYPPKQLATLDM
3034	NP_002806.2	257	AITSLKYMLLCKIMLNTPELV
3035	NP_002807.1	31	SATVDQRLPECAKLAKEGRLO
3036	NP_002807.1	74	SRILVAVVKMICYEAK EWDLLN
3037	NP_002807.1	108	KQAVAKMVQCCTYVEEITDL
3038	NP_002807.1	109	QAVAKMVQCCTYVEEITDLP
3039	NP_002807.1	244	DQHEGSYLSICKHYRAIYDTP
3040	NP_002810.1	23	KRGSDELFTSCVTVNGPFIMSS

3041	NP_002818.1	32	DIRHEASDFPCRVAKLPKNKN
3042	NP_002818.1	92	ILTQGFLPNTCGHFWEMVWEQ
3043	NP_002818.1	121	NRVMEKGSCLKCAQYWPQKEEK
3044	NP_002818.1	215	SPEHGPVVVHCSAGIGRSGTF
3045	NP_002818.1	226	SAGIGRSGTFCLADTCLLLMD
3046	NP_002818.1	231	RSGTFCLADTCLLLMDKRKDP
3047	NP_002818.1	324	KRILEPHNGKCREFFPNHQWV
3048	NP_002818.1	414	SYWKPFLVNMCVATVLTAGAY
3049	NP_002818.1	426	ATVLTAGAYLCYRFLFNSNTX
3050	NP_002823.3	45	QAQEGRMQLGCAVVAARRGGG
3051	NP_002823.3	242	TILPNPQSRVCLGRAQSQEDG
3052	NP_002823.3	309	LTQLREGKEKCVHYWPTTEET
3053	NP_002823.3	333	FQIRIQDMKECPEYTVRQLTI
3054	NP_002823.3	405	HCSAGIGRTGCFIATRIGCQQ
3055	NP_002823.3	413	TGCFIATRIGCQQLKARGEVD
3056	NP_002823.3	429	RGEVDILGIVCQLRLDRGGMI
3057	NP_002848.1	8	XXXMAAAEEGCSVGAADREL
3058	NP_002848.1	128	DMTSQQEFTSCLKETLSGLAK
3059	NP_002848.1	226	EKYQEHSVMCKICEQFEAET
3060	NP_002853.2	109	TMVNLGLQACDEAIYQLGLD
3061	NP_002853.2	143	GNGGLGRLAACFLDSMATLGL
3062	NP_002853.2	319	IRRFKSSKFGCRDPVRTCFET
3063	NP_002853.2	373	DKAWEITKKTCAYNHTVLPE
3064	NP_002853.2	437	RRMSVIEEGDCKRINMAHLCV
3065	NP_002853.2	446	DCRINMAHL CVIGSHAVNGV
3066	NP_002853.2	496	GITPRRWLLLCNPGLADTIVE
3067	NP_002853.2	581	IHEYKRQLLNCLHVVTLYNRI
3068	NP_002853.2	758	SGFFSPKEPDCFKDIVNMLMH
3069	NP_002853.2	784	VFADYEAYMQCQAQVDQLYRN
3070	NP_002853.2	808	WTKKVIRNIACSGKFSDDRTI
3071	NP_002861.1	123	GVERLLLGNKCDMEAKRKVQK
3072	NP_002861.1	192	NKPPSTD LKTKCDKKN TNKCSL
3073	NP_002875.1	48	DSYRKQVEVDCQQCMLEILD
3074	NP_002875.1	51	RKQVEVDCQQCMLEILD TAGT
3075	NP_002875.1	141	GQNLARQWCNCAFLESSAKSK
3076	NP_002878.2	8	XXXMDVLVSECSARLLQQEEE
3077	NP_002878.2	34	AEIDRLKNGCGLGASPNLEQL
3078	NP_002878.2	115	SQQAQKFGDYQCNSAMGISQML
3079	NP_002878.2	150	NITKHLDPNECIEKVEIAGPG
3080	NP_002878.2	293	EEEFKKRAYQCVVLLQKKNPD
3081	NP_002878.2	312	PDITKAWKLICDVSRLQELNKI
3082	NP_002878.2	502	NAAQTSVAYGCIKYADLSHNR
3083	NP_002878.2	577	DHEKEWKLGRCILRFPEILQK
3084	NP_002878.2	598	ILDDLFLHTLCDYIYELATAF
3085	NP_002878.2	615	ATAFTEFYDSCYCVKDRQGTG
3086	NP_002878.2	617	AFTEFYDSCYCVKDRQTKI
3087	NP_002878.2	638	LKVNMRMLLCEAVAAVMAGK
3088	NP_002930.2	12	SLDIQSLDIQCEELSDARWAE
3089	NP_002930.2	30	WAE LPLLOQCQVVR LDDCGL
3090	NP_002930.2	38	QQCQVVR LDDCGLTEARCKDI
3091	NP_002930.2	45	LDDCGLTEARCKDISSALRVN
3092	NP_002930.2	75	SNELGDVGVHCVLQGLQTPSC
3093	NP_002930.2	85	CVLQGLQTPSCKIQKLSLQNC
3094	NP_002930.2	96	KIQKLSLQNCCLTGAGCGVLS
3095	NP_002930.2	134	LLGDAGLQLLCEGLLDPQCR
3096	NP_002930.2	142	LLCEGLLDPQCRLEKLQLEYC
3097	NP_002930.2	152	CRLEKLQLEYCSLSAASCEPL
3098	NP_002930.2	216	LESCGVTSDNCRDL CGIVASK
3099	NP_002930.2	220	GVTSDNCRDL CGIVASKASLR
3100	NP_002930.2	266	SRLRTLWIWECGITAKCGDL
3101	NP_002930.2	273	IWECGITAKCGDL CRVLR
3102	NP_002930.2	329	WVKSCSFTAACCSHFSSVLAQ
3103	NP_002930.2	330	VKSCSFTAACCSHFSSVLAQN
3104	NP_002930.2	380	SVLRVLWLADCDVSDSSCSSL
3105	NP_002930.2	387	LADCDVSDSSCSSLAATLLAN
3106	NP_002930.2	427	QLVESVRQPGCLLEQLVLYDI
3107	NP_002931.2	16	TRIAIVNHDKCKPKKCRQECK
3108	NP_002931.2	21	VNHDKCKPKKCRQECKKSCP
3109	NP_002931.2	25	KCKPKKCRQECKKSCPVVRMG
3110	NP_002931.2	29	KKCRQECKKSCPVVRMGKLCI
3111	NP_002931.2	55	SKIAWISSETLCIGCGICIKKC
3112	NP_002931.2	58	AWISSETLCIGCGICIKKCPFG
3113	NP_002931.2	61	SETLCIGCGICIKKCPFGALS
3114	NP_002931.2	65	CIGCGICIKKCPFGALSIVNL
3115	NP_002931.2	201	KDETKTQAIVCQQLDLTHLKE
3116	NP_002931.2	227	LSGGELQRFAVAVCIQKADI

3117	NP_002931.2	231	ELQRFACAVVCIQKADIFMFD
3118	NP_002931.2	287	SVLDYLSDFICCLYGVP SAYG
3119	NP_002931.2	288	VLDYLSDFICCLYGVP SAYGV
3120	NP_002931.2	346	TANEEVKKMCMYKYPGMKKK
3121	NP_002931.2	475	GELQRFVALALCLGKPADVYLI
3122	NP_002943.2	143	YNGHVGLGVKCSKEVATAIRG
3123	NP_002943.2	182	NKIGKPHTVPCKVTGRCGSVL
3124	NP_002943.2	222	KLLMMAGIDDCYTSARGCTAT
3125	NP_002964.3	76	RQSSPPSASDCFGSNGNGGGA
3126	NP_002964.3	147	GVSLARPAPGCP RP ACEPVY G
3127	NP_002964.3	152	RPAPGCP RP ACEPVY G PLTMS
3128	NP_002964.3	280	HILTSVVGSKCEVQVKNGGIY
3129	NP_002964.3	301	EGVFKEYSPKCDLVLDAAHEK
3130	NP_002964.3	332	EEIMESILFKCSDFV VQFKD
3131	NP_002964.3	556	VNGGVPWPSPCPSPPSRPPSR
3132	NP_002964.3	852	DSFIENSSSNTSGSSKPNSP
3133	NP_002964.3	963	QPTPVYTPVCFAPNMMYPVP
3134	NP_002964.3	1107	AHEQTHAMYACPKLPYNKETS
3135	NP_003001.1	158	DLDVVMRSSDCPYIVQFYGAL
3136	NP_003001.1	174	FYGALFREGDCWICMELMSTS
3137	NP_003001.1	177	ALFREGDCWICMELMSTSFDK
3138	NP_003001.1	266	DSIAKTRDAGCRPYMAPERID
3139	NP_003001.1	382	ERAVEVACYVCKILDQMPATP
3140	NP_003008.1	10	XMHRDSCPLDCKVYVGNLGN
3141	NP_003008.1	72	AVRELDGRTL CGCRVRVELSN
3142	NP_003008.1	74	RELDGRTL CGCRVRVELSNGE
3143	NP_003012.1	148	LGNYAGAVQDCERAICIDPAY
3144	NP_003016.1	96	YPQSEGLLGECMIRHGKELGG
3145	NP_003016.1	147	QNFIDPLQNLCEKDLKEIQHH
3146	NP_003016.1	311	RSMPLDQPSCKALYDFEPEN
3147	NP_003091.2	413	VKGVFDHRMKCQWKWEDAQIT
3148	NP_003124.1	39	LKYRHS DGNLCVKVTDDLVLCL
3149	NP_003128.3	63	DDEQEDPN DYCKGGYHLVKIG
3150	NP_003128.3	162	KISGVNGTHICMVFEVLGHHL
3151	NP_003128.3	207	LQGLDYLHTKRIIHTDIKPE
3152	NP_003128.3	356	DTEGGA AEINCNGVIEVINYT
3153	NP_003128.3	386	HKEDLHNANDCDVQNLNQESS
3154	NP_003128.3	427	ITSEVSDTMVCQSSSTVQGSF
3155	NP_003128.3	502	KVKIADLGNACWVHKHFTEDI
3156	NP_003128.3	539	NTPADIWSTACMAFELATGDY
3157	NP_003128.3	647	IPEKRATAAECLRHPWLNSXX
3158	NP_003130.2	17	IFSKGGLVLWCFQGVSDSCTG
3159	NP_003130.2	25	LWCFQGVSDSCTGPVNALIRS
3160	NP_003130.2	295	GSGGQLQDLDCSSSDDEGAAQ
3161	NP_003130.2	363	NVAADIAVQLCESVANKLEGK
3162	NP_003130.2	424	RRQRPYVVTFCGVNGVGKSTN
3163	NP_003130.2	454	ENGFSVLI AACDTFRAGAVEQ
3164	NP_003130.2	621	IVFVGTGQTYCDLRS LNAKAV
3165	NP_003267.1	280	LASERNLFISCKSSHDRCLEK
3166	NP_003267.1	287	FISCKSSHDRCLEKSSSSSSSQ
3167	NP_003267.1	330	GYYKDIVENICGREKSGIQPL
3168	NP_003267.1	341	GREKSGIQPLCPERSHISDQS
3169	NP_003267.1	561	GGIQAAS TE SCNQQLDALCR
3170	NP_003267.1	570	SCNQQLDALCRAYEAAAASAL
3171	NP_003267.1	629	SKTYDAASYICEAAFDEVKMA
3172	NP_003267.1	658	VGRRYLWLKDKINLASKNKL
3173	NP_003267.1	684	KGGTLFGGEVCKVIKRGKHK
3174	NP_003283.2	75	QERLVNETRETCQSLRLELEKL
3175	NP_003283.2	1068	LSNEQQARRDCQEQA IAVEA
3176	NP_003283.2	1145	ERMLKDEVSKVCRCEDLEKQ
3177	NP_003283.2	1147	MLKDEVSKVCRCEDLEKQNR
3178	NP_003283.2	1149	KDEVSKVCRCEDLEKQNRLL
3179	NP_003293.2	47	ALQPHPRVNFCLPSEQCYQA
3180	NP_003293.2	181	QVKVAQPVRGCGPPRRGASQA
3181	NP_003293.2	279	HPPSGEYFGQCGGCGEDVVG D
3182	NP_003293.2	282	SGEYFGQCGGCGEDVVG D GAG
3183	NP_003293.2	307	DRV FHVGC FVCSTCRAQLRGQ
3184	NP_003293.2	310	FHVGC FVCSTCRAQLRGQH FY
3185	NP_003293.2	328	HFYAVERRAYCEGCYVATLEK
3186	NP_003293.2	331	AVERRAYCEGCYVATLEKCAT
3187	NP_003293.2	339	EGCYVATLEKCATCSQPILDR
3188	NP_003293.2	342	YVATLEKCATCSQPILDRILR
3189	NP_003293.2	362	RAMGKAYHPGCFTCVVCHRGL
3190	NP_003293.2	387	FTVDATSQIHCIEDFHRKFAP
3191	NP_003293.2	402	HRKFAPRCSVCGGAIMPEPGQ
3192	NP_003293.2	429	VALDRSFHIGCYKCEECGLLL

3193	NP_003293.2	435	FHIGCYKCEECGLLLSSEGE
3194	NP_003293.2	445	CGLLLSSEGECCQGCYPLDGH
3195	NP_003293.2	448	LLSSEGECCQGCYPLDGHILCK
3196	NP_003293.2	457	GCYPLDGHILCKACSAWRIQE
3197	NP_003293.2	460	PLDGHILCKACSAWRIQELSA
3198	NP_003325.2	23	SGPDPKPGSNCSAQSVLSEV
3199	NP_003325.2	179	LEDQLRVGEFCHNRGIKLVVA
3200	NP_003325.2	200	DTRGLFGQLFCDFGEEMILTD
3201	NP_003325.2	234	VTKDNPVGVVTCLEARHGFES
3202	NP_003325.2	278	KVLGPYTFISICDTSNFSYIR
3203	NP_003325.2	340	HIGFQALHQFCAQHGRPPRPR
3204	NP_003325.2	413	GLAAQEVMKACSGKFMPIQW
3205	NP_003325.2	431	MQWLYFDALECLPEDKEVLTE
3206	NP_003325.2	481	YFLVGAGAIGCELLKNFAMIG
3207	NP_003325.2	494	LKNFAMIGLGCGEGERIIVTD
3208	NP_003325.2	588	VDARMYMDRRRCVYRKPILLES
3209	NP_003325.2	632	QDPPEKSIPICTLKNFPNAIE
3210	NP_003325.2	706	VLQRPQWADCVTWACHHWHT
3211	NP_003325.2	711	QWADCVTWACHHWHTQYSNN
3212	NP_003325.2	748	GAPFWSGPKRCPHPLTFDVNN
3213	NP_003325.2	906	TTTAAVVGVLVLCLELYKVVQGH
3214	NP_003325.2	1040	HVRALVLELCCNDESGEDVEV
3215	NP_003355.1	17	NAEKAESHNDPCVRLNPNIA
3216	NP_003355.1	57	PALFGDVKFVFCVGGSPSRMKA
3217	NP_003355.1	71	SPSRMKAIFRCVGAELGLDCP
3218	NP_003355.1	89	DCPGRDYPNICAGTDRAMYK
3219	NP_003355.1	131	ELIKLLYYARCSNVTIRIGT
3220	NP_003355.1	193	NKKLVQELLLCSAELSEFTTV
3221	NP_003355.1	209	EFTTVVGNMCTLDFYEQGR
3222	NP_003355.1	225	EGQGRLDGALCSYTEKDQAY
3223	NP_003355.1	258	EMESSVFAAMCSACGLQAAVV
3224	NP_003355.1	261	SSVFAAMCSACGLQAAVVCVT
3225	NP_003355.1	269	SACGLQAAVVCVTLNLRLEGD
3226	NP_003356.2	69	VASEQSSQPTCTVGVWIDVGS
3227	NP_003356.2	154	VELLGDIVQNCLEDSQIEKE
3228	NP_003356.2	268	AEDAVPTLTPCRFTGSEIRHR
3229	NP_003356.2	316	VANAIIGHYDCTYGGGVHLSS
3230	NP_003356.2	338	LASGAVANKLCSQFQTFICY
3231	NP_003356.2	347	LCQSFQTFICYAETGLLGAH
3232	NP_003356.2	360	ETGLLGAHFVCDRMKIDMMF
3233	NP_003356.2	410	VSHLDGTPVCEDIGRSLTTY
3234	NP_003356.2	445	EVDASVVREICSKYIYDQCPA
3235	NP_003356.2	453	EICSKYIYDQCPAVAGYGPPIE
3236	NP_003361.1	7	XXXXMSETVICSSRATVMLYD
3237	NP_003361.1	64	MQPDQQVVINCAIVRGVKYNQ
3238	NP_003461.2	90	RLSESVLSPPCFVRNLPWKIM
3239	NP_003461.2	121	HQKSVGFFLQCNAESDSTSWS
3240	NP_003461.2	132	NAESDSTSWSCHAQAVLKIIN
3241	NP_003461.2	300	SFMQHDVQELCRVLLDNVENK
3242	NP_003461.2	334	FRGKMVSYIQCKEVDYRSDRR
3243	NP_003461.2	478	YLNPKGDGKWCKFDDDVVSR
3244	NP_003461.2	488	CKFDDDVVSRCTKEEAEHNY
3245	NP_003461.2	510	GHDDDLVSRHCTNAYMLVYIR
3246	NP_003461.2	576	QVQIVAEDQFCGHQGNMYDE
3247	NP_003461.2	702	YDPKTRSLNYCGHIYTPISCK
3248	NP_003461.2	711	YCGHIYTPISCKIRDLLPVMC
3249	NP_003461.2	721	CKIRDLLPVMCDRAGFIQDTS
3250	NP_003461.2	799	DLYHRVDVIFCDKTIIPNDPGF
3251	NP_003461.2	896	TDFENRRSFKCIWLNSQFREE
3252	NP_003461.2	917	EITLYPDKHGCVRDLLLEECKK
3253	NP_003461.2	925	HGCVRDLEEECKKAVELGEKA
3254	NP_003461.2	961	GVHQEDELLECLSPATSRTRFR
3255	NP_003463.1	161	KFRNAMLKSICEVLDLERSGV
3256	NP_003463.1	200	GKPLPKSKKTCCKGSKKERN
3257	NP_003463.1	222	GMARKAKRKTCKPEILSDESS
3258	NP_003463.1	347	NLEEVMTKQICKKVYENYPTY
3259	NP_003482.1	17	RPEDLMNMQHCNLLCLPENYQ
3260	NP_003482.1	21	LMNMQHCNLLCLPENYQMKYY
3261	NP_003557.2	43	NNESSEGFICPQCMKSLGSA
3262	NP_003557.2	46	SSSEGFICPQCMKSLGSADEL
3263	NP_003557.2	255	ERESEKLDCKKLSQYASS
3264	NP_003557.2	346	QATLHQKDLDCQQLQSRLSAS
3265	NP_003557.2	704	TAKLQDKQEHCSQLESHLKEY
3266	NP_003557.2	894	KAAILDLEKTCKELKHQLQVQ
3267	NP_003557.2	1102	AKKEQQLQERCKALQDIQKEK
3268	NP_003557.2	1299	QDERRALLERCLKGEGETEKL

3269	NP_003557.2	1358	KWAEDNEVQNCMACGKGFVSVT
3270	NP_003557.2	1361	EDNEVQNCMACGKGFVTVRR
3271	NP_003557.2	1374	GFSVTVRRHHCRCQGNIFCAE
3272	NP_003557.2	1377	VTVRRHHCRCQGNIFCAECSA
3273	NP_003557.2	1382	HHCRQCQGNIFCAECSAKNALT
3274	NP_003557.2	1385	RQCQGNIFCAECSAKNALT PSS
3275	NP_003557.2	1402	TPSSKPKVVRVCDACFNLDQGX
3276	NP_003567.2	266	SKPLKEFVEACLNKEPSFRPT
3277	NP_003567.2	375	KDIPKRPFQCLSTIISPLFA
3278	NP_003567.2	415	RGAIYLAEEACPGISDTMVAQ
3279	NP_003581.1	156	IFRDQVVRYGCIRDHLRQTL
3280	NP_003581.1	187	VVDRGAI RNACQMLMLGLGEG
3281	NP_003581.1	251	INEEIERVMHCLDKSTEEPIV
3282	NP_003581.1	298	LKNGKTEDLGCMYKLF SRVFN
3283	NP_003581.1	314	SRVFNGLKTMCECMSSYLREQ
3284	NP_003581.1	316	VPNGLKTMCECMSSYLREQGK
3285	NP_003581.1	464	MISKLKTECGCQFTSKLEGMF
3286	NP_003581.1	522	YWPTQSATPKCNIPAPRHAF
3287	NP_003592.3	259	KRWVPTLRSVCLIGDKQRAA
3288	NP_003592.3	283	DVLLPGEWDVCVTSYEMLIKE
3289	NP_003592.3	374	DFDSWFDTNCLGDQKLVRL
3290	NP_003592.3	527	DYCMWRNYEYCRLDGQTPHDE
3291	NP_003592.3	891	IEYSAVFWERCNELQDIEKIM
3292	NP_003592.3	957	YTEEEDRFLICMLHKLGF DKE
3293	NP_003592.3	976	KENVYDEL RQCIRNSPQFRFD
3294	NP_003592.3	1001	SRTAMELQRRCNTLITLIERE
3295	NP_003631.2	23	RDIQGPGNPQCFSLRTEQGT
3296	NP_003631.2	84	VQDLLDQESV CVATASGDVIL
3297	NP_003631.2	95	VATASGDVILCSLSTQQLCEV
3298	NP_003631.2	104	LCSLSTQQLCEVGSVAGISV
3299	NP_003631.2	213	DGQFFAVSVVCPETGARKVRV
3300	NP_003631.2	319	QRESSIPKTCVQLWTVGNH
3301	NP_003631.2	363	PVTPYRLHVL CQGWHYLAWD
3302	NP_003631.2	414	FRQTVVPPMCTYQLLFPHPV
3303	NP_003631.2	453	DASNQISVYKCGDCPSADPTV
3304	NP_003631.2	456	NQISVYKCGDCPSADPTVKLG
3305	NP_003631.2	476	GAVGGSGFKVCLRTPHLEKRY
3306	NP_003631.2	562	AVDGVILSLCCNSKTKSVVLQ
3307	NP_003631.2	607	GGFPVRFPPY PCTQTELAMIGE
3308	NP_003631.2	620	TELAMIGEEECVLGLTDRCRF
3309	NP_003631.2	628	EECVLGLTDRCRFFINDIEVA
3310	NP_003631.2	660	FLLLTTHSHTCQCFCLRDASF
3311	NP_003631.2	662	LLTTHSHTCQCFCLRDASFKT
3312	NP_003631.2	664	TTHSHTCQCFCLRDASFKTQ
3313	NP_003631.2	744	DKLMFKEAFECMRKLRINLNL
3314	NP_003631.2	820	DPDGNKIDLVCDAMRAVMESI
3315	NP_003631.2	836	VMESINPHKYCLSILTSHVKK
3316	NP_003631.2	953	YEKAI GHLSKCGPEYFPECLN
3317	NP_003631.2	961	SKCGPEYFPECLNL IKDKNLY
3318	NP_003631.2	1012	YEPAGLMFARCGAHEKALSAF
3319	NP_003631.2	1025	HEKALSAFLT CGNWKQALCVA
3320	NP_003631.2	1033	LTCGNWKQALCVA AQLNFTKD
3321	NP_003631.2	1072	HIDAAMVLEECAQDYEEAVLL
3322	NP_003633.1	120	KIRQIIPP GFCTNTNDFLSLL
3323	NP_003633.1	168	TFQIYKADMT CRGFREYHERL
3324	NP_003633.1	294	KLRDFVLVKLCQDLPCFSREK
3325	NP_003633.1	376	KQRDLAKMRKCLRPEELTNQM
3326	NP_003650.1	58	RPREALSTNECKARRAASAAT
3327	NP_003650.1	190	DDRVFRAHGHC LHEIFLLREG
3328	NP_003650.1	214	RIPDIVLWPTCHDDVVKIVNL
3329	NP_003650.1	231	IVNLACKYNLCI IPIGGGTSV
3330	NP_003650.1	247	GGTSVSYGLMCPADET RTIIS
3331	NP_003650.1	297	LERQLKESGYCTGHEPDSLEF
3332	NP_003650.1	349	VTPRGIIEKSCQGPRMSTGPD
3333	NP_003650.1	404	AFPNFQGVACLREIAKQRCA
3334	NP_003650.1	413	ACLREIAKQRCA PASIRLMDN
3335	NP_003650.1	541	SAPWDRVVDLCRNVKERITRE
3336	NP_003650.1	552	RNVKERITRECKEKG VQFAPF
3337	NP_003650.1	565	KGVQFAPFSTCRVTQT YDAGA
3338	NP_003650.1	576	RVTQTYDAGACIYFYFAFN YR
3339	NP_003674.1	62	LLKVWKGLFYCMWMDKPLLQ
3340	NP_003674.1	198	DQNLKFI DPFCAIAARTKDSL
3341	NP_003674.1	349	FPEDEIPEKACRRLL EGRRQK
3342	NP_003706.2	27	HTEAETIQKLCDRVASTLLD
3343	NP_003706.2	232	NSDGGIVVEDCLILLQNL LKN
3344	NP_003706.2	303	PTNPPGATSSCQKAMFQCGLL

3345	NP_003706.2	310	TSSCQKAMFQCGLLQQLCTIL
3346	NP_003706.2	317	MFQCGLLQQLCTILMATGVPA
3347	NP_003706.2	344	INTVSEVIRGCQVNQDYFASV
3348	NP_003706.2	383	VNERQPFVLRCAVLYCFQCFL
3349	NP_003706.2	388	PFVLRCAVLYCFQCFLYKNQK
3350	NP_003706.2	426	GNSVSAGQLLCGLFSTDLSLS
3351	NP_003706.2	439	LFSTDLSLNWCAAVLAHALQ
3352	NP_003706.2	478	GNPPVSLLOQCTNILSQGSKI
3353	NP_003706.2	499	QTRVGLLMLLCTWLSNCP1AV
3354	NP_003706.2	505	LMLLCTWLSNCP1AVTHFLHN
3355	NP_003706.2	541	GEEEQLVQGLCALLLGI SIYF
3356	NP_003711.1	68	LEVSLLEKYPCSKFIIAIGNN
3357	NP_003711.1	98	MNSGVWEEVGC AKLWNEWCRT
3358	NP_003711.1	106	VGCAKLWNEWCRTTDTTHLSS
3359	NP_003711.1	121	TTHLSSTEAF CVFYHLKSNPS
3360	NP_003711.1	135	HLKSNPSVFLCQCSCYVAEDQ
3361	NP_003711.1	137	KSNPSVFLCQCSCYVAEDQQY
3362	NP_003711.1	139	NPSVFLCQCSCYVAEDQQYQW
3363	NP_003711.1	169	RKNMQITILTCRHVTDYKTSE
3364	NP_003711.1	202	LKTQNFKDSACCPLEQPNIV
3365	NP_003711.1	203	KTQNFKDSACCPLEQPNIVH
3366	NP_003711.1	223	HDLPAAVLSYCVVKIPAILY
3367	NP_003711.1	235	VWKIPAILYLCYTDVMKLDLI
3368	NP_003741.1	58	EPIMLKYLEL CVDLRSHLAK
3369	NP_003741.1	185	HDIAQQAFKFCLOYTRKAEFR
3370	NP_003741.1	198	YTRKAEFRKLC DNLRMHL SQI
3371	NP_003741.1	404	LEVEFNPLKLCERVTKVLNWV
3372	NP_003745.1	134	VDKHSVEVTNCF SVPHNESED
3373	NP_003746.2	157	NKLLGQKIVSCRICKGDHWT
3374	NP_003746.2	160	KGQKIVSCRICKGDHWTRCP
3375	NP_003746.2	169	ICKGDHWTRCPYKDTLGP
3376	NP_003810.1	472	LRHLAPTGSECPDR LAMDFGG
3377	NP_003816.2	79	TEKTLTELNKCCGLCVPCNR
3378	NP_003816.2	80	EKTLTELNKCCGLCVPCNRT
3379	NP_003816.2	83	LTELNKCCGLCVPCNRTKNF
3380	NP_003816.2	85	ELNKCCGLCVPCNRTKNFES
3381	NP_003816.2	87	NKCCGLCVPCNRTKNFESGK
3382	NP_003855.1	67	GAAGPGPQLCCLREDGERCG
3383	NP_003855.1	68	AAGPGPQLCCLREDGERCGR
3384	NP_003855.1	76	LCCLREDGERCGRAAGNASFS
3385	NP_003855.1	112	LDKSARHLYICDYHKNLIQSV
3386	NP_003861.1	45	RRQNVAYEYLCHLEAKRWME
3387	NP_003861.1	57	LEEAKRWMEACLGEDLPPTTE
3388	NP_003861.1	524	EFITWNDIQACVDHVNLVVQE
3389	NP_003861.1	660	DVGLYGVIP ECGETYHSDLAE
3390	NP_003861.1	781	FLKKQIPAITCIQSQRGYKQ
3391	NP_003861.1	1270	QKFRRFQ TACDVPELQDKFN
3392	NP_003866.1	137	GVFNISVDNTCSLFRGLQKEE
3393	NP_003866.1	213	LKNFLYDIAGCSGTF TVQNRE
3394	NP_003866.1	226	TFTVQNRELECI REIKERVGT
3395	NP_003866.1	252	LLSGVDSTVCTALLNRALNQ
3396	NP_003866.1	449	PGPGLAIRVICA EEPYICKDF
3397	NP_003866.1	530	QGDCRSYSYVCGI SSKDEPDW
3398	NP_003866.1	631	DRDPLQKQPSCQRSV VIRTFI
3399	NP_003891.1	27	AREIRRF SFCCSPEPEAEAEA
3400	NP_003891.1	44	EAEAAAGPGPCERLLSRVAAL
3401	NP_003891.1	105	FRIYIKEKKECRRDRHP PCAQ
3402	NP_003891.1	128	PRNMVHPNVIDGCGNGPVVGT
3403	NP_003891.1	131	MVHPNVIDGCGNGPVVGTTRYK
3404	NP_003891.1	142	NGPVVGTTRYKCSVCPDYDLCS
3405	NP_003891.1	145	VVGTRYKCSVCPDYDLCSVCE
3406	NP_003891.1	151	KCSVCPDYDLCSVCEGKGLHR
3407	NP_003891.1	154	VCPDYDLCSVCEGKGLHRGHT
3408	NP_003891.1	289	EKSSSQPSSCCSDPSKPGGN
3409	NP_003891.1	290	EKSSSQPSSCCSDPSKPGGNV
3410	NP_003891.1	331	RPEEQMESDNCSGGDDWTHL
3411	NP_003900.1	202	RPFKISLNSLCYGDMDKTIKV
3412	NP_003900.1	278	SVKQCEITVECTFLDYIMGGC
3413	NP_003900.1	385	IQGIVEAYRSLPQIKLYGPT
3414	NP_003900.1	506	QNAPKEALAQCVLAEIPQQVV
3415	NP_003904.3	750	NDADPDDKFHCLRLFRHFYHK
3416	NP_003904.3	764	FRHFYHKQHLCLVF EPLSMNL
3417	NP_003912.1	29	DALENLRVYLCEKIIAERHFD
3418	NP_003912.1	57	LSREDTEEIS CRTSSRKRAGK
3419	NP_003912.1	122	EHLKGLKCSSCEPFPDGATNN
3420	NP_003912.1	215	PDLQLEEEGT CANSEMFLPL

3421	NP_003925.1	109	QISRIQAESGCKIQIASESSG
3422	NP_003925.1	125	SESSGIPERPCVLTGTPEISIE
3423	NP_003925.1	148	KRLLGQIVDRCRNGPGFHNDI
3424	NP_003925.1	310	AAQVMGPPDRQCQAAHIISEL
3425	NP_003925.1	366	EITYTVPADKCGLVIGKGGEN
3426	NP_003943.2	29	GEPELSPADACPLAELRAAGL
3427	NP_003943.2	66	NVGPERIGPHCFELLRLVKGK
3428	NP_003943.2	150	TGGKLYLILECLSGGELFTHL
3429	NP_003943.2	172	REGIFLEDTACFYLAETLAL
3430	NP_003943.2	216	GHIKLTDFGLCKESIHEGAVT
3431	NP_003943.2	230	IHEGAVTHTFCGTIEYMAPEI
3432	NP_003963.1	109	ERLNFDRFDICRLLQH GASLL
3433	NP_003963.1	287	ETNEWPLESFCEELCNDLFNP
3434	NP_003963.1	291	WPLESFCEELCNDLFNPSWEV
3435	NP_003963.1	348	WLEDLVIRLLCVFALDRFGDF
3436	NP_003963.1	371	DEVVAPVRETCAQTLGVVLKH
3437	NP_003963.1	509	SLLTYPVQVQQCSIQQSLTVLV
3438	NP_003963.1	571	PDMLRHFQFCVLESSQEILD
3439	NP_003963.1	604	ASVQYVVAACPWMGAWLCLM
3440	NP_003963.1	612	AACPWMGAWLCLMMQPSHLP
3441	NP_003963.1	689	MMAAKLLGALCCCICDPGVNV
3442	NP_003963.1	690	MAAKLLGALCCCICDPGVNVV
3443	NP_003963.1	691	AAKLLGALCCCICDPGVNVVT
3444	NP_003963.1	693	KLLGALCCCICDPGVNVVTQE
3445	NP_003963.1	734	LQRISVALVICEWAALQKECK
3446	NP_003963.1	743	ICEWAALQKECKAVTLAVQPR
3447	NP_003963.1	778	AVPFTRMQNECKQLISSLADV
3448	NP_003963.1	862	LQLRVHTFAACAVVSLQQLP
3449	NP_003963.1	900	NTLVQNYAAQCIAKLLQOCTT
3450	NP_003963.1	908	AQCIAKLLQOCTTRTPCPNSK
3451	NP_003963.1	914	LLQOCTTRTPCPNSKIKNLC
3452	NP_003963.1	924	CPNSKIKNLCSSLCVDPYLT
3453	NP_003963.1	928	KIKNLCSSLCVDPYLTCPVT
3454	NP_003963.1	936	SLCVDPYLTCPVTCPVPTQSG
3455	NP_003963.1	939	VDPYLTCPVTCPVPTQSGQEN
3456	NP_003963.1	1114	LVQHLPFLYMLCLQYPSTAVRH
3457	NP_003963.1	1129	STAVRHMAARCVGVMSKIATM
3458	NP_003963.1	1171	KQEGAEALACVMEQLDVGIV
3459	NP_003963.1	1209	TDSVRFMATQCFATLIRLMPL
3460	NP_003963.1	1290	LNKYKLGILCDDMGLGKTLQ
3461	NP_003963.1	1303	MGLGKTLQSIICILAGDHCHRA
3462	NP_003963.1	1310	QSIICILAGDHCHRAQYARSK
3463	NP_003963.1	1324	QEYARSKLAECMPLPSLVVCP
3464	NP_003963.1	1333	ECMPLPSLVVCPPTLTGHVVD
3465	NP_003963.1	1349	GHWVDEVGKFCFSREYLNPLHY
3466	NP_003963.1	1401	DFFRNIKFNYCILDEGHVIKN
3467	NP_003963.1	1579	FQALQYLRKLCNHPALVLTPO
3468	NP_003963.1	1626	LSALKQLLLDCGLNGSTSES
3469	NP_003963.1	1651	VVAQHRILIFCQLKSMLDIVE
3470	NP_003964.3	54	QVRRQAMPFKCMQLTDFILKF
3471	NP_004026.2	199	VLAQLITK GKCYGLHAFIVPI
3472	NP_004026.2	297	GEAARALSKACTIAIRYSAVR
3473	NP_004026.2	392	SWTANTGIEACRMACGGHGYS
3474	NP_004026.2	396	NTGIEACRMACGGHGYSHCSG
3475	NP_004026.2	404	MACGGHGYSHCSGLPNIVNF
3476	NP_004026.2	418	PNIYVNFTPSCTFEAGENTVMM
3477	NP_004026.2	531	VDLVRASEAHCHYVVVKLFSE
3478	NP_004026.2	559	KAIQAVLRSLCLLYSLYGISQ
3479	NP_004042.1	21	SRLPGKTL SADC DRENGARRPL
3480	NP_004042.1	63	VGSKAVLVTGCDSGFGFSLAK
3481	NP_004042.1	86	HSKGFVLFAGCLMKDKGHDGV
3482	NP_004042.1	115	DRLRTVQLNVCSSEVEKVV
3483	NP_004042.1	209	RMANPARSPYCI TKFGVEAFS
3484	NP_004042.1	288	DEKIAKMETYCSSGSTD TSPV
3485	NP_004068.2	18	ARLLGTKNASCLVLAARHASA
3486	NP_004068.2	101	IRFRGFSIPECQKLLPKAKGG
3487	NP_004068.2	359	VLKRTDPRYTCQREFALKHLP
3488	NP_004073.2	81	GTVQGRKYFTCDEGHGIFVRQ
3489	NP_004073.2	605	SFLRPGGDHDCVLVLLMPRL
3490	NP_004073.2	617	LVLLMPRLICKAELIRKQAO
3491	NP_004073.2	677	LHRYEHALSQCSVDVYKKVGS
3492	NP_004073.2	742	SIHLAEQPEDCTMQLADHIKF
3493	NP_004073.2	759	HIKFTQSALDCMSVEVGR LRA
3494	NP_004073.2	791	ALLLRDLETSCSDIRQFCKKI
3495	NP_004073.2	798	ETSCSDIRQFCKKIRRMPGT
3496	NP_004073.2	830	GPQVSDTLLDCRKH LTVVAV

3497	NP_004073.2	888	YGTPSSSPYECLRQSCNILIS
3498	NP_004073.2	893	SSPYECLRQSCNILISTMNKL
3499	NP_004073.2	1252	TVYMGKVTFSCAAGFGQRHRL
3500	NP_004085.1	6	XXXXXMPGLSCRIFYQHKFPEV
3501	NP_004085.1	70	NKLRIRIGRNECVVIRVDKEK
3502	NP_004085.1	199	VKIRADIEVACYGYEGIDAVK
3503	NP_004086.1	7	XXXXMSGGSSCSQTPSRAIPA
3504	NP_004095.4	135	ETLVGYSMVGCQRAMMANRLS
3505	NP_004095.4	161	RGPSIALDTACSSSLMALQNA
3506	NP_004095.4	180	NAYQAIHSGQCPAAIVGGINV
3507	NP_004095.4	223	KAFDTAGNGYCRSEGVVAVLL
3508	NP_004095.4	313	QELNGITRALCATRQEPLLIIG
3509	NP_004095.4	496	PAGERPLWFICSGMGTQWRGM
3510	NP_004095.4	569	IQIGLIDLSCMGLRPDGIIVG
3511	NP_004095.4	587	IVGHSLGEVACGYADGCLSQE
3512	NP_004095.4	593	GEVACGYADGCLSQEAEVLAA
3513	NP_004095.4	609	AVLAAYWRGQCIKEAHLPPGA
3514	NP_004095.4	630	MAAVGLSWEECKQRCPGVVP
3515	NP_004095.4	634	GLSWECKQRCPGVVPACHN
3516	NP_004095.4	779	AVLKRGLKPSCTIIPLMKKDH
3517	NP_004095.4	1127	FCFTPHTEEGCLSERALQEE
3518	NP_004095.4	1227	GLLDSPALKACLDTAVENMPS
3519	NP_004095.4	1317	LGSADLLVCNCVAALGDPAS
3520	NP_004095.4	1403	KSFYGSTLFLCRRPTPQDspi
3521	NP_004095.4	1459	ATSGVVGLVNCLRREPGENRL
3522	NP_004095.4	1471	RREPGENRLRCLLNLNLSSTS
3523	NP_004095.4	1558	CSSLRHAQPTCPGAQLCTVYY
3524	NP_004095.4	1564	AQPTCPGAQLCTVYYASLNFR
3525	NP_004095.4	1693	AAIAIALSLGCRVFTTVGSAE
3526	NP_004095.4	1759	AEEKLQASVRCCLATHGRFLEI
3527	NP_004095.4	1828	IRDGVVRPLKCTVFHGAQVED
3528	NP_004095.4	1881	KLMSAISKTFCPAHKSYIAG
3529	NP_004095.4	2010	LNLDRVTREACPELDYFVDFS
3530	NP_004095.4	2024	DYFVVFSSVSCGRGNAGQSNY
3531	NP_004095.4	2045	GFANSAMERICERRRHEGLPG
3532	NP_004095.4	2091	SGTLPQRMASCLEVLDLFLNQ
3533	NP_004095.4	2273	RLSIPTYGLQCTRAAPLDSIH
3534	NP_004095.4	2292	IHSLAAYYIDCIRQVQEGPY
3535	NP_004095.4	2312	YRVAGYSYGACVAFEMCSQLQ
3536	NP_004095.4	2318	SYGACVAFEMCSQLQAQQSPA
3537	NP_004095.4	2359	QSYRAKLTGPCEAEAEATEAIC
3538	NP_004095.4	2369	CEAEAEATEAICFFVQQFTDME
3539	NP_004125.3	66	VGIDLGTNSCVAVMEGKQAK
3540	NP_004125.3	366	TDLIRRTIAPCQKAMQDAEVS
3541	NP_004125.3	487	DGQTQVEIKVCQGEREMAGDN
3542	NP_004138.1	142	GRQVIAVARTCNLILIVLDVL
3543	NP_004138.1	243	VVEGNRVYIPCIYVLNKIDQI
3544	NP_004138.1	267	ELDIYKVPHCVPISAHHRWN
3545	NP_004138.1	322	PYSRTTVEDFCMKIHKNLIKE
3546	NP_004152.1	26	LIGDSGVGKSCLLLRFADDTY
3547	NP_004183.2	130	SVFTGVAIVHCSSKDHQLDTR
3548	NP_004183.2	205	NVVGFPNLHFCKQLVKLYYPP
3549	NP_004183.2	274	EAGQATAEAECHEHRTRETLPPF
3550	NP_004183.2	305	FMLSKGLLTACKLKVFDLLKD
3551	NP_004183.2	342	ACGMERLLDICAAMGLEKTE
3552	NP_004183.2	441	AMHGMTKLTACQVATAFNLSR
3553	NP_004183.2	456	AFNLSRFSSACDVGCTGALA
3554	NP_004183.2	461	RFSSACDVGCTGALARELAR
3555	NP_004183.2	546	HKLLSRVAESCKPGAGLLLVE
3556	NP_004183.2	592	GKERSLGEYQCLELHGFHQV
3557	NP_004184.1	158	VGAHLTNEVCEIMQSCFRIC
3558	NP_004184.1	164	NESVCEIMQSCFRICFEMRLS
3559	NP_004184.1	168	CEIMQSCFRICFEMRSELLR
3560	NP_004184.1	360	VESIPEVLEECTSPADHSDSA
3561	NP_004184.1	446	VALESAPVAQCQTLGLIKDE
3562	NP_004184.1	458	TLLGLIKDEMCRHLFQLLSIE
3563	NP_004184.1	480	LNLAAASLRVCFLLFESMREH
3564	NP_004184.1	544	FVTELYINYDCDYCSNLFEE
3565	NP_004184.1	548	LYINYDCDYCSNLFELTKL
3566	NP_004184.1	592	LTVIDSTEAHQAKVNLSTLQ
3567	NP_004184.1	613	QEKKETARPSCEIVDGTREAS
3568	NP_004184.1	661	RLPPEHGKSGCSDLAAVDSG
3569	NP_004184.1	685	KFARKPPRFSCLLPDPRELIE
3570	NP_004184.1	812	LEAFTERWMNCNGSPFANSDA
3571	NP_004184.1	823	NGSPFANSDACFSLAYAVIML
3572	NP_004184.1	961	IQKAISGFRKCAMISAHYGLS

3573	NP_004184.1	982	DVFDNLIISLCKFTALSSESI
3574	NP_004184.1	1110	NQEAQRVALECIKQCDPEKMI
3575	NP_004184.1	1114	KRVALECIKQCDPEKMITESK
3576	NP_004184.1	1156	ETYDEEDAFAFCEMLLRIVLE
3577	NP_004184.1	1186	QTVRDHLYHLCVQAQDFCFLV
3578	NP_004184.1	1193	YHLCVQAQDFCFLVERAVVGL
3579	NP_004184.1	1272	DWATLFTLLECIKSGVKKPPAA
3580	NP_004184.1	1392	GPHDTKSLKCVESLSFIVRD
3581	NP_004184.1	1414	AHITPDNFELCVKTLRFVFA
3582	NP_004184.1	1430	IFVEASLNGGCKSQEKRGKSH
3583	NP_004184.1	1541	EADSRTLWAHCWCPLLQGIAC
3584	NP_004184.1	1543	DSRTLWAHCWCPLLQGIACLC
3585	NP_004184.1	1551	CWCPLLQGIACLCDDARRQVR
3586	NP_004184.1	1553	CPLLQGIACLCDDARRQVRMQ
3587	NP_004184.1	1554	PLLQGIACLCDDARRQVRMQA
3588	NP_004184.1	1588	QKLDALEWESCFNKVLFPLLT
3589	NP_004184.1	1707	LWEITWERIDCFPLHLRDELFL
3590	NP_004184.1	1766	PPEIPSELGACDFEKPESPRA
3591	NP_004214.1	86	HPNVDENGQICLPIISSENWK
3592	NP_004214.1	102	SENWKPCTKTQVLEALNVLV
3593	NP_004228.1	93	KDSQPIDLSACTVALHIFQLN
3594	NP_004228.1	189	GPPGTGKTSLCKALAQLTIR
3595	NP_004228.1	264	VESLTAARNACRAGTEPSDAI
3596	NP_004228.1	334	AAAFKILYLSCLEELMKCQII
3597	NP_004228.1	341	YLSCLEELMKCQIIYPRQQLL
3598	NP_004238.3	135	NSELIRNVTLCGHLHKGKTCF
3599	NP_004238.3	166	EIRKRYDQDLCYTDILFTEQE
3600	NP_004238.3	256	AVQERLAVTVCINKIDRLILE
3601	NP_004238.3	308	LILSPLLGNVCFSSSQYSICF
3602	NP_004238.3	317	VCFSSSQYSICFTLGSFAKIY
3603	NP_004238.3	420	LNIRPLLRLVCKKFFGEFTGF
3604	NP_004238.3	434	FGEFTGFVDMCVQHIPSQKVG
3605	NP_004238.3	468	DSDLGEAMSDCDPDGPLMCHT
3606	NP_004238.3	476	SDCDPDGPLMCHTTKMYSTDD
3607	NP_004238.3	525	TLEDEEDSQICTVGRLWISVA
3608	NP_004238.3	639	ILGTGELYLDVCMHDLRKMYS
3609	NP_004238.3	663	IKVADPVVTFCTVETSSLK
3610	NP_004238.3	780	FQWGTREGPLCDELIRNVKFK
3611	NP_004238.3	842	YFVEVQAPADCVSAVYTVLAR
3612	NP_004251.3	77	AAAEAEPEPRCWGPHLNRAAT
3613	NP_004251.3	194	GSLDPGWLQRCHSEVPDFLGA
3614	NP_004251.3	208	VPDFLGAPKACRPDLGSEESQ
3615	NP_004251.3	311	EPVQAQPPQPCSSPSPRYHG
3616	NP_004251.3	389	WKQKWRKKGECFSGGGATVTT
3617	NP_004251.3	403	GGATVTTKESCFLNEQFDHWA
3618	NP_004251.3	416	NEQFDHWAQCPRPASEEDTD
3619	NP_004251.3	511	VLPTGAGKSLCYQLPALLYSR
3620	NP_004251.3	525	PALLYSRSPCLTLVVSPLLS
3621	NP_004251.3	547	MDDQVSGLPPCLKAACIHSGM
3622	NP_004251.3	552	SGLPPCLKAACIHSGMTRKQR
3623	NP_004251.3	603	AAQLPPVAFACIDEAHCLSQW
3624	NP_004251.3	609	VAFACIDEAHCLSQWSHFRP
3625	NP_004251.3	620	LSQWSHFRPCYLRVCKVLRE
3626	NP_004251.3	636	KVLRERMGVHCFLGLTATATR
3627	NP_004251.3	707	FQNLDSIIYCNRRREDTERIA
3628	NP_004251.3	723	TERIAALLRTCLHAAWVPGSG
3629	NP_004251.3	749	TTAEAYHAGMCSRERRRVQRA
3630	NP_004251.3	814	RAGRDGQPAHCHFLFPQGED
3631	NP_004251.3	853	KRLVQRVFPACTCTCTRPSE
3632	NP_004251.3	855	LVQRVFPACTCTCTRPSEQE
3633	NP_004251.3	857	QRVFPACTCTCTRPSEQEGA
3634	NP_004251.3	897	HQAAPGPRRVCMGHERALPIQ
3635	NP_004251.3	925	MPEEAIETLLCYLELHPHHWL
3636	NP_004251.3	945	LELLATYTHCRLNCPGGPAQ
3637	NP_004251.3	949	ATTYTHCRLNCPGGPAQLQAL
3638	NP_004251.3	969	LAHRCPPPLAVCLAQQLPEDPG
3639	NP_004251.3	1008	WELASVRRALCQLQWDHEPRT
3640	NP_004251.3	1052	DLTAEKQDQICDFLYGRVQAR
3641	NP_004251.3	1085	QAFHSVAFSPCGPCLEQQDEE
3642	NP_004251.3	1088	HSVAFSPCGPCLEQQDEERST
3643	NP_004251.3	1171	ARIFHIGSPCYPAQVYQDR
3644	NP_004272.2	373	EVKVPAPVPCPPSPGPSAV
3645	NP_004283.2	101	FLVRKSNTRQCQALCMRLPEA
3646	NP_004283.2	105	KSNTRQCQALCMRLPEASGPS
3647	NP_004283.2	146	LMFPDLVQLICAYCHTRDILL
3648	NP_004283.2	149	PDLVQLICAYCHTRDILLPL

3649	NP_004283.2	223	ELDQGTGAALCFFNPLFPDGL
3650	NP_004283.2	284	VPSQTERLPPCQLLRRESSVG
3651	NP_004283.2	355	PLLRMSAAFCSSLAPERQVG
3652	NP_004283.2	438	LEHVLEKSLHCSVLKPLRPIL
3653	NP_004283.2	519	SAQVKRLLQACKLLYMALRTO
3654	NP_004283.2	550	LPLLSLVLAHCDLPELLEAE
3655	NP_004283.2	623	WEQRRLPATHCFQHLLRVAYQ
3656	NP_004283.2	639	RVAYQDPSSGCTSKTLAVPPE
3657	NP_004283.2	659	EASIALTLNQLCATKFRVTPQN
3658	NP_004359.1	61	QKGLKDGITLCTLMNKLQPGS
3659	NP_004359.1	175	VIGLQMGTKNCASQSGMTAYG
3660	NP_004359.1	240	IYDTKLGTDKCDNSSMSLQMG
3661	NP_004359.1	274	LGRQIYDPKYCPQGTVADGAP
3662	NP_004359.1	290	ADGAPSGTGDCPDGPEVPEYP
3663	NP_004386.2	68	FENQKVMYGFCSVKDSQAALP
3664	NP_004386.2	98	EDVPDARKCACASHVAKVAEF
3665	NP_004386.2	308	ERVASASAGSCDVPSPFNHRP
3666	NP_004386.2	527	PEPLLPAGEGCATLLNFDEL
3667	NP_004386.2	544	DELPEPPATFCDPEVEGEPEL
3668	NP_004386.2	613	EEFAQSEELCAKAPPVVFYN
3669	NP_004386.2	632	YNKPPPEIDITCWDADVPPEE
3670	NP_004388.2	102	STKGNEFEDYCLKRELLMGIF
3671	NP_004388.2	341	RLQINQSIIFCNSSQRVELLA
3672	NP_004388.2	361	AKKISQLGYSCFYIHAKMRQE
3673	NP_004388.2	385	RVFHDVFRNGLCRNLVCTDLFT
3674	NP_004388.2	390	FRNGLCRNLVCTDLFTRGIDI
3675	NP_004392.1	21	ESGEIRTLKPCLLRRNYSREQ
3676	NP_004392.1	78	TIVDDDDYFLCLPSNTKFVAL
3677	NP_004392.1	154	EDLQMLVDAPCSDLAQELRQS
3678	NP_004392.1	165	SDLAQELRQSCATVQRLQHTL
3679	NP_004392.1	289	IKKTEVQAEACERELALRLQQ
3680	NP_004393.1	26	PRKFGVAGRSCQEVLRKGLR
3681	NP_004393.1	34	RSCQEVLRKGLRQFQLPERGS
3682	NP_004393.1	47	FQLPERGSRLCLYEDGTELTE
3683	NP_004393.1	108	GLIQAAQQLLDCDEQAPQRQL
3684	NP_004393.1	160	QSKSGYLRYSCESTRRSYLRE
3685	NP_004393.1	218	DRGAKGGSRLCTPEGWFSCQG
3686	NP_004393.1	226	RLCTPEGWFSCQGFDMDSCL
3687	NP_004393.1	235	SCQGFDMDSCLSRHSINPYS
3688	NP_004393.1	306	SENCLKLVHIVCHKKTTHKLN
3689	NP_004393.1	316	CHKKTTHKLNCDPSRIYKQPT
3690	NP_004437.2	105	FTSTINELNHCLSLRTYLVGN
3691	NP_004437.2	123	VGNSLSLADLCVWATLKGNA
3692	NP_004437.2	336	MKKGSQFGQSCCLRAKIDMSS
3693	NP_004437.2	337	KKGSQFGQSCCLRAKIDSSN
3694	NP_004437.2	350	AKIDMSSNNGCMRDPTLYRCK
3695	NP_004437.2	359	GCMRDPTLYRCKIQHPRTGN
3696	NP_004437.2	381	YNVYPTYDFACPIVDSIEGVT
3697	NP_004437.2	623	TTHALPIPVICVTYEHLITKP
3698	NP_004437.2	660	KHEELMLGDPCLKDLKKGDI
3699	NP_004437.2	680	IQLQRRGFFICDQPYEPVSPY
3700	NP_004437.2	692	QPYEPVSPYSCKEAPCVLIYI
3701	NP_004437.2	697	VSPYSCKEAPCVLIYIPDGH
3702	NP_004437.2	1046	EMIEYHDISGCYILRPWAYAI
3703	NP_004437.2	1076	AEIKKLGVENCYFPMFVSQSA
3704	NP_004437.2	1148	RDLPKILNQWCNVVRWEFKHP
3705	NP_004437.2	1301	MGLVLPFRVACVQVVIIPCGI
3706	NP_004437.2	1309	VACVQVVIIPCGITNALSEED
3707	NP_004437.2	1327	EEDKEALIAKNDYRRRLLSV
3708	NP_004437.2	1448	DSGKIVQIPFCGEIDCEDWIK
3709	NP_004437.2	1453	VQIPFCGEIDCEDWIKTTAR
3710	NP_004437.2	1480	GAPSMGAKSLCIPFKPLCELQ
3711	NP_004437.2	1487	KSLCIPFKPLCELQPGAKCVC
3712	NP_004437.2	1495	PLCELQPGAKCVCCKNPAKY
3713	NP_004437.2	1497	CELQPGAKCVCCKNPAKYTL
3714	NP_004449.1	116	LKPKNITAIFCETRAEWMAA
3715	NP_004449.1	129	RAEWMAAQTCFKYNFPLVTL
3716	NP_004449.1	262	SNLIAGMTGQCERIPGLGPKD
3717	NP_004449.1	292	HVLELTAEISCFYTGCRIGYS
3718	NP_004449.1	297	TAEISCFYTGCRIGYSSPLTL
3719	NP_004449.1	322	SKIKKGSKGDCTVLKPTLMAA
3720	NP_004449.1	379	QIKKGYDAPLCNLLLFKKVKA
3721	NP_004449.1	416	SPQTHRFMNVCFCPIPQGYG
3722	NP_004449.1	418	QTHRFMNVCFCPIPQGYGLT
3723	NP_004449.1	431	IGQGYGLTESCGAGTVTEVTD
3724	NP_004449.1	453	TTGRVGAPLICCEIKLKDWE

3725	NP_004449.1	454	TGRVGAPLICCEIKLKDWQEG
3726	NP_004449.1	511	SVDENQRWFCTGDIGEFHPD
3727	NP_004449.1	523	GDIGEFHPDGCLQIIDRKKDL
3728	NP_004449.1	554	LGKVEAALKNCPLIDNICAF
3729	NP_004449.1	561	LKNCPLIDNICAFKSDQSYV
3730	NP_004449.1	599	KGVEGTWVDICNPNAMEAEIL
3731	NP_004477.3	64	SNPFTTSSGGCHSPEDTPKDN
3732	NP_004477.3	139	QLSQQLNGLVCEATCVNGEG
3733	NP_004477.3	144	LNGLVCEATCVNGEGPASSA
3734	NP_004477.3	205	TDQLEEEKKECHQKQALREQ
3735	NP_004477.3	356	ELLLQQFSSRCEAPDANQQLQ
3736	NP_004477.3	427	QVHTLREEKECSMSRVQELET
3737	NP_004477.3	765	RGQLKEQRVRCRRLAHLASA
3738	NP_004477.3	934	LGAANQQGDLCEVSLAGSVEP
3739	NP_004477.3	984	RERPGLGSNPCIPFFYRADEN
3740	NP_004499.2	13	RGLALARAIGCAARGRQWAV
3741	NP_004499.2	28	RGQWAVRAADCAQSGRHPGPA
3742	NP_004499.2	41	SGRHPGPAVVCGRRLISVLEQ
3743	NP_004499.2	78	KQQVQLLAEMCILIDENDNKI
3744	NP_004499.2	96	NKIGAETKKNCHLNENIEKGL
3745	NP_004499.2	142	ITFPGCFTNTCCSHPLSNPAE
3746	NP_004499.2	143	TFPGCFTNTCCSHPLSNPAEL
3747	NP_004512.1	13	DLAECNIKVMCRFRPLNESEV
3748	NP_004512.1	65	STSQEQVYNDCAKIVKDVLE
3749	NP_004512.1	168	DKNRVPYVKGCTERFVCSPE
3750	NP_004512.1	174	YVKGCTERFVCSPEVMDTID
3751	NP_004512.1	294	RILQDSLGGNCRTTIVICCS
3752	NP_004512.1	301	GGNCRTTIVICCSPPSYNESE
3753	NP_004512.1	302	GNCRTTIVICCSPPSYNESET
3754	NP_004512.1	421	GNFTDAERRKCEEEIAKLYKQ
3755	NP_004512.1	608	KSEVKTMVKRCKQLESTQTES
3756	NP_004512.1	632	MEENEKELAACQLRISQHEAK
3757	NP_004512.1	858	QLVRDNADLRCELKLEKRLR
3758	NP_004514.2	25	KGKNIQVVRCRPFNLAERKA
3759	NP_004514.2	43	RKASAHSIVECDPVRKEVSVR
3760	NP_004514.2	87	KQIDVYRSVVCPILEDEVIMGY
3761	NP_004514.2	99	ILDEVIMGYNCTIFAYGQTGT
3762	NP_004514.2	450	FMDKNELDQCKSDLQNKTOE
3763	NP_004514.2	683	KELDGFLSILCNLHELQENT
3764	NP_004514.2	695	NLHELQENTICSLVESQKQCG
3765	NP_004514.2	704	ICSLVESQKQCGNLTEDLKTI
3766	NP_004514.2	723	TIKQTHSQELCKLMNLWTERF
3767	NP_004514.2	734	KLMLNLWTERFCALEEKENIQ
3768	NP_004514.2	740	TERFCALEEKENIQKPLSSV
3769	NP_004514.2	773	NKMTFHSQKFCADSDGFSQEL
3770	NP_004514.2	819	EKISQETEQRCESLNTRTVYF
3771	NP_004514.2	854	LHNLLEVVSQCCEASSDITE
3772	NP_004514.2	855	HNLLLEVVSQCCEASSDITEK
3773	NP_004514.2	964	KQPELLMMLNCSENNKEETIP
3774	NP_004514.2	1003	QEPSVDAGVDCSSIGVPPFFQ
3775	NP_004573.2	78	REEILAFIKSCQHECGGISAS
3776	NP_004573.2	82	LAFIKSCQHECGGISASIGHD
3777	NP_004573.2	148	WGEIDTRFSFCAVATLALLGK
3778	NP_004573.2	174	VEKAIEFVLSCMNFDGGFGCR
3779	NP_004573.2	183	SCMNFDGGFGCRPGSESHAGQ
3780	NP_004573.2	196	GSESHAGQIYCCTGFLAITSQ
3781	NP_004573.2	197	SESHAGQIYCCTGFLAITSQL
3782	NP_004573.2	220	VNSDLLGWLWCERQLPSGGLN
3783	NP_004573.2	240	NGRPEKLPDVCYSWWVLASLK
3784	NP_004573.2	314	EQIKPVNPVFCMPEEVLQRVN
3785	NP_004588.1	46	VKNNTQVLINCRNKKLLGRV
3786	NP_004593.2	442	NKNEFVSLINCSQPPLISHG
3787	NP_004593.2	460	SHGIGKDVESCHDMAALNILK
3788	NP_004613.1	58	GAGFQDIPKRCLKAREHFGTV
3789	NP_004695.1	151	VLRGHQLSITCLVVTDDSAI
3790	NP_004695.1	168	DSAI FSAAKDCSIIKWSVESG
3791	NP_004695.1	204	KPPGHSSHVLCMAISSDGKYL
3792	NP_004695.1	297	AALDALSRECCVTTAGGRDGT
3793	NP_004695.1	329	VFYGHQGSIDICHLINEEHMV
3794	NP_004695.1	399	DLVATGSHSSCVRLWQCGEGF
3795	NP_004695.1	405	SHSSCVRLWQCGEGFRQLDLL
3796	NP_004695.1	416	GEGFRQLDLLCDIPLVGFINS
3797	NP_004695.1	460	WRIKEARNSVCIIPRRVPVP
3798	NP_004721.1	97	KVPPNGLVVYCGTIVTEEGKE
3799	NP_004721.1	127	FKPINTSLYLCDNKFHTEALT
3800	NP_004721.1	335	NLDIMRYVLHCQGTTEEKILY

3801	NP_004730.2	44	ANGNVEAKVVCLFRRRDISS
3802	NP_004730.2	106	SLPATHIRGKCSVTLNETDI
3803	NP_004730.2	126	ILSQYLEKEDCFFYSLVFDPV
3804	NP_004730.2	151	LADQGEIRVGCKYQAEIPDRL
3805	NP_004730.2	261	TLVPQGGPVLCDREMEEWSAS
3806	NP_004730.2	367	NGAGFQKGLTCESCHTTQSAQ
3807	NP_004730.2	370	GFQKGLTCESCHTTQSAQWYA
3808	NP_004730.2	388	WYAWGPPNMQCRLCASCWIYW
3809	NP_004730.2	391	WGPPNMQCRLCASCWIYWKKY
3810	NP_004730.2	394	PNMQCRLCASCWIYWKYGGGL
3811	NP_004730.2	469	TKLTRLARRMCRDLLQPRRAA
3812	NP_004730.2	495	PINANAIKAEC SIRLPKAAKT
3813	NP_004783.2	10	XMGIKVQRPRCFDIAINNQP
3814	NP_004783.2	33	RVVFEFLFSDVCPKTCENFRCL
3815	NP_004783.2	37	ELFSDVCPKTCENFRCLCTGE
3816	NP_004783.2	42	VCPKTCENFRCLCTGEGTGK
3817	NP_004783.2	44	PKTCENFRCLCTGEGTGKST
3818	NP_004783.2	63	STQKPLHYKSCLFHRVVKDFM
3819	NP_004783.2	174	KPFAEVRILSCGELIPKSKVK
3820	NP_004783.2	549	DRRAQSR SRECDITKGKHSYN
3821	NP_004810.2	100	KFVIGFIEEACKRDI ELLKL
3822	NP_004810.2	157	SRVISELQEACWDMVSAMAGD
3823	NP_004810.2	472	LPGGVEQTKQCKEPEEKVV
3824	NP_004810.2	645	ASGSLDKYEDCLIRLLSGLQE
3825	NP_004810.2	686	ESALEVVRKYCEDESRTYLG
3826	NP_004810.2	848	SPELLLLVENCPKGAETLVTR
3827	NP_004810.2	859	PKGAETLVTRCLHSLTDKVPP
3828	NP_004810.2	957	IALHNIDSVKCDMKS I KATN
3829	NP_004810.2	969	MKS I KATNL CFAERNVYTSE
3830	NP_004810.2	1041	YPKVWEGFIKCCQRTK PQSFQ
3831	NP_004810.2	1042	PKVWEGFIKCCQRTK PQSFQV
3832	NP_004810.2	1068	PQQLGAVFDKCP ELREPLLAH
3833	NP_004810.2	1198	AMDFREEGPECETPGIFISMD
3834	NP_004823.1	32	GSIRIYSMRF C PFAERTRLV
3835	NP_004823.1	90	GQLIYESAITCEYLDEAYPGK
3836	NP_004823.1	112	LLPDDPYEKACQKMI E LFSK
3837	NP_004841.2	247	MKMDETGMVHCDTAVGTPDYI
3838	NP_004841.2	275	QGGDGFYGRECDWWSVGVFLY
3839	NP_004841.2	314	SKIMDHKNSLCFPEDAEISKH
3840	NP_004841.2	330	EISKHAKNLICAF L TDREVR
3841	NP_004841.2	428	ENLLSDSPSCRETDSIQSRK
3842	NP_004841.2	470	MQAKEELEQKCKSVNTRLEKT
3843	NP_004841.2	761	ENLLEAEKRC SL LDCDLKQS
3844	NP_004841.2	766	EAEKRCSLLDCDLKQSQQKIN
3845	NP_004841.2	804	LKIEQETQKRCLTQNDLKMOT
3846	NP_004841.2	887	KTQVRELKEECEETKLGKEL
3847	NP_004841.2	1274	IPTLYHFPTNCEACMKPLWHM
3848	NP_004841.2	1277	LYHFPTNCEACMKPLWHMFKP
3849	NP_004841.2	1293	HMFKPPPALECCRCHIKCHKD
3850	NP_004841.2	1296	KPPPALECCRCHIKCHKDHMD
3851	NP_004841.2	1300	ALECCRCHIKCHKDHMDKKEE
3852	NP_004841.2	1315	MDKKEE I IAPCKVYD I STAK
3853	NP_004879.1	104	EVLNLLAFVCDIRPEIHENY
3854	NP_004921.1	8	XXXMSDQQLDCALDLMRRLPP
3855	NP_004921.1	36	SDLIDLVP SL CEDLLSVDQP
3856	NP_004921.1	62	DKVVGKDYLLCDYNRDGDSYR
3857	NP_004921.1	147	AGDGSKKIKGCWDSIHVVEVQ
3858	NP_004955.2	12	AQTQGTTRRKVCY YDGDVGN
3859	NP_004955.2	100	QMQRFNVGEDCPVFDGLFEFC
3860	NP_004955.2	110	CPVFDGLFEFCQLSTGGSVAS
3861	NP_004955.2	151	HAKKSEASGFCYVNDIVLAIL
3862	NP_004955.2	284	FNLTIKGHAKC VEFVKSFNLP
3863	NP_004955.2	311	GGYTIRNVARCWYETAVALD
3864	NP_004955.2	416	SICSSDKRIACEE EFS DSEEE
3865	NP_004997.4	20	LVGLSKSPKGCVR T TATAASN
3866	NP_004997.4	53	VEPGTTVLQACEKVMQIPRF
3867	NP_004997.4	64	EKVMQIPRF CYHERLSVAGN
3868	NP_004997.4	75	YHERLSVAGNCRMCLVEIEKA
3869	NP_004997.4	78	RLSVAGNCRMCLVEIEKAPKV
3870	NP_004997.4	92	IEKAPKVVAACAMPVMKGWNI
3871	NP_004997.4	128	EFLLANHPLDCPICDQGGECD
3872	NP_004997.4	137	DCPICDQGGECDLQDSMMFG
3873	NP_004997.4	176	GPLVKTIMTRCIQCTRCIRFA
3874	NP_004997.4	179	VKTIMTRCIQCTRCIRFASEI
3875	NP_004997.4	182	IMTRCIQCTRCIRFASEIAGV
3876	NP_004997.4	226	SELSGNIIDICPVGALTSKPY

3877	NP_004997.4	367	LLNRVSDTLCTEEVFPTAGA
3878	NP_004997.4	564	CITRQDLPKDCFIIYQGHGD
3879	NP_004997.4	710	ISRASQTMAKCVKAVTEGAQA
3880	NP_005040.2	60	LPLATRYNVKCVGLSPDGRLA
3881	NP_005040.2	86	GGDALLVSLVCRSVLHHFHF
3882	NP_005040.2	149	TYFGPYDETTCIDWTDSDRCF
3883	NP_005040.2	158	TCIDWTDSDRCFVVGSKDMST
3884	NP_005040.2	194	LGGHKDAIVACFFESNSLDLY
3885	NP_005040.2	213	LYLSQDQVLCMWQCCTPPEG
3886	NP_005040.2	217	SQDQVLCMWQCCTPPEGLRLK
3887	NP_005040.2	349	NSSGDWIAFGCSGLGQLLVWE
3888	NP_005040.2	407	VKVWNTLSGFCFVTFTEHSSG
3889	NP_005040.2	463	FTSPRPTQFSCVAVDASGEIV
3890	NP_005040.2	508	SGHEGPI SGLCFNPMKSVLAS
3891	NP_005040.2	612	AAKGKAFTALCYSADGHSILA
3892	NP_005040.2	630	ILAGMSKFVCIYHVREQILM
3893	NP_005040.2	647	QILMKRFEISCNLSLDAMEEF
3894	NP_005040.2	716	TSLRFSPTGRCWAATTEGLL
3895	NP_005042.1	111	PIDTVDFERECGVGVIVTPEQ
3896	NP_005042.1	298	FGYAKANNGICFLRFDDTNPE
3897	NP_005042.1	319	KEEAKFFTAICDMVAWLGYTP
3898	NP_005042.1	358	ELIRRGLAYVCHQRGEELKGH
3899	NP_005042.1	433	TPHHRRTGDKWCIYPTYDYTHC
3900	NP_005042.1	443	CIYPTYDYTHCLCDSIEHITH
3901	NP_005042.1	445	YPTYDYTHCLCDSIEHITHSL
3902	NP_005042.1	471	QARRSSYFWLCNALDVYCPVQ
3903	NP_005042.1	478	FWLCNALDVYCPVQWEYGRLN
3904	NP_005042.1	536	GFPPEAINNFCARVGVIVAQT
3905	NP_005042.1	556	TTMEPHLLEACVRDVLNDTAP
3906	NP_005042.1	665	SGCVESLEVTCCRADAGEKPK
3907	NP_005042.1	687	FIHWVSQPLMCEVRLYERLFQ
3908	NP_005042.1	730	LHVVDAAALVDCSVALAKPFDK
3909	NP_005052.1	157	QKDFAAAMKKYCKVIRVIVHTQ
3910	NP_005052.1	264	IGAWHPARVGC SIARAGQKGY
3911	NP_005052.1	336	VNND FVMLKGC IAGTKKR VIT
3912	NP_005076.3	102	KFP IHHLALSCDNLTL SACMM
3913	NP_005076.3	110	LSCDNLTL SACMMSSEYGSII
3914	NP_005076.3	168	NPTVPSMVA VCLADGS IAVLQ
3915	NP_005076.3	186	VLQVTETVKVCATLPSTVAVT
3916	NP_005076.3	199	LPSTVAVTSVCWSPK GKQLAV
3917	NP_005076.3	231	PTLQEKKVIPC PPFYESDHPV
3918	NP_005076.3	294	PEIFVNFMEPCYGSCTERQHH
3919	NP_005076.3	298	VNFMEPCYGSCTERQHYYLS
3920	NP_005076.3	917	HSFSDLESLCNALLKTTIES
3921	NP_005076.3	1003	SLESEDARTSCKDDEAVVQAP
3922	NP_005076.3	1837	TTAATSGFSFCQASGFGSSNT
3923	NP_005115.2	404	RKTNQRIDNKCSTGYEKNMTP
3924	NP_005115.2	585	HHVTTVNSTNCKKTPPEDCEG
3925	NP_005115.2	593	TNCKKTPPEDCEGPFRAEIL
3926	NP_005122.2	69	LEEEIINHSSCENVLA IISLA
3927	NP_005122.2	88	LAIGGVTEGICTASTPFVLLG
3928	NP_005122.2	103	PFVLLGDVLDCLPLDQCDTIF
3929	NP_005122.2	109	DVLDCLPLDQCDTIFTFVEKN
3930	NP_005122.2	140	SAGKNYLLRMCNDLLRRLSKS
3931	NP_005122.2	156	RLSKSQNTVFCGR IQLFLARL
3932	NP_005122.2	226	EMGDEEAPTTC S IPI DYNLYR
3933	NP_005122.2	251	LQDYFRNPVQCYEKISWKTFI
3934	NP_005122.2	396	ENWNSWKNEGCPSFVKERTSD
3935	NP_005122.2	452	WNLCPDNMEACKSE TREHMPT
3936	NP_005122.2	604	MKDSEIRQIECDSEDMKMRK
3937	NP_005137.1	560	AIVFNATSEFCRTLGEIPTYG
3938	NP_005144.2	40	ELPPYSGTVL CGTQAVDKLPD
3939	NP_005144.2	115	TKEASYGSIDCQYPGSALALD
3940	NP_005144.2	209	DMPPSVTPRTCNSPQNSTDSV
3941	NP_005144.2	273	TLSRTAGAQPCVGTDTTENLG
3942	NP_005144.2	436	INATLQALVACPPMYHLMKFI
3943	NP_005144.2	456	IPLYSKVQR PCTSTPMIDSFV
3944	NP_005144.2	697	KRFVYEKTGGCQKLIKNI EYP
3945	NP_005144.2	728	SPGVKNKNFKCHR TYRLFVAV
3946	NP_005145.3	50	ALKIFKTAEECR LDRDEERAY
3947	NP_005145.3	175	QKSNGEKNEK CETKEGAITA
3948	NP_005145.3	214	ARRMQDYQDSCILHSLSVPEE
3949	NP_005145.3	307	LEGGYENWLLCYPQYTTNAKV
3950	NP_005145.3	575	KKSVEDRGKRCPTPEIQKST
3951	NP_005145.3	748	PTVNRENKPTCYPKAEISRLS
3952	NP_005145.3	796	CYMNSILQCLCNAPHLADYFN

3953	NP_005145.3	962	LSLPLASTSKCTLQDCLRLFS
3954	NP_005145.3	967	ASTSKCTLQDCLRLFSKEEKL
3955	NP_005145.3	985	EKLTDNRFYCSHCRARRDSL
3956	NP_005145.3	988	TDNNRFYCSHCRARRDSLKKI
3957	NP_005145.3	1072	GLDGGHYTAYCKNAARQRWFK
3958	NP_005147.3	55	SKKFKRDRPPCSPSRVLHLRK
3959	NP_005147.3	248	ALDGQNIYNACCTLRIDFSKL
3960	NP_005147.3	500	DLKNLFI EAGCSVKAFKFFQK
3961	NP_005162.1	230	LMKNREAARECRRKKKEYVKC
3962	NP_005179.2	59	GTVDKMMVEKCKWKLMDKVVRL
3963	NP_005179.2	70	WKLMDKVVRLCQNPKLALKNS
3964	NP_005179.2	232	MALKSTIDLTCNDYISVFFFD
3965	NP_005179.2	297	KPGSYIFRLSCTRLGQWAIGY
3966	NP_005179.2	353	RNQNPDLTGLCEPTQDHIKV
3967	NP_005179.2	372	KVTQEYELYCEMGSTFQLCK
3968	NP_005179.2	381	YCEMGSTFQLCKICAENDKDV
3969	NP_005179.2	384	MGSTFQLCKICAENDKDVKIE
3970	NP_005179.2	396	ENDKDVKIEPCGHLMCTSLT
3971	NP_005179.2	401	VKIEPCGHLMCTSLTSWQES
3972	NP_005179.2	404	EPCGHLMCTSLTSWQESEGO
3973	NP_005179.2	416	TSWQESEGOQCFRCCEIKGT
3974	NP_005179.2	419	QESEGOQCFRCCEIKGTETPI
3975	NP_005179.2	421	SEGOQCFRCCEIKGTETPIV
3976	NP_005179.2	567	ESRPQRRPLPCTPGDCPSRDK
3977	NP_005179.2	572	RRPLPCTPGDCPSRDKLPPVP
3978	NP_005179.2	659	MNSSPLVGPEDCHPKIKPSSS
3979	NP_005179.2	692	PVPKLPPGEGCEGEDTEYMT
3980	NP_005179.2	720	PLDTSQSSRACDCDQQIDSCT
3981	NP_005179.2	722	DTSQSSRACDCDQQIDSCTYE
3982	NP_005179.2	729	ACDCDQQIDSCTYEAMYNIQS
3983	NP_005179.2	840	RINSERKAGSCQQGSGPAASA
3984	NP_005185.2	11	MQRLVAWDPACLPLPPPPAF
3985	NP_005185.2	35	EVANFYEADCLAAAYGKAA
3986	NP_005185.2	131	LFSDDYGGKNCCKPAEYGYVS
3987	NP_005185.2	156	GAAGALHPGCFAPLHPPPPP
3988	NP_005185.2	184	KAEPGFEPADCKRKEAGAPG
3989	NP_005198.1	44	GMFLVRDSSTCPGDYVLSVSE
3990	NP_005210.3	220	DSRNKHEIIRCLKAFMNNKFG
3991	NP_005210.3	314	SGTTIALKVGCLQLINALITP
3992	NP_005210.3	437	RPQYKLIIEECISQIVLHKNG
3993	NP_005210.3	454	HKNGADPDFKCRHLQIEIEGL
3994	NP_005210.3	626	PPPPPLPGGVCISSPPLPGG
3995	NP_005210.3	796	KLVAEDLSQDCFWTVKEDRF
3996	NP_005210.3	964	KPEIVSVTAACEELRKSESFS
3997	NP_005210.3	1005	GAFGFNISFLCKLRDTRKSTDQ
3998	NP_005264.2	25	RNQIRDARKACGDSTLTQITA
3999	NP_005264.2	103	IPLRSSWVMTCAAYPSGNFVA
4000	NP_005264.2	114	AYAPSGNFVACGGLDNICSIY
4001	NP_005264.2	121	FVACGGLDNICSIYSLKTREG
4002	NP_005264.2	148	ELPGHTGYLSCCRFLDDNQII
4003	NP_005264.2	149	LPGHTGYLSCCRFLDDNQIIT
4004	NP_005264.2	166	QIITSSGDTTCALWDIETGOQ
4005	NP_005264.2	218	IKLWDVRDSMCRQTFIGHESD
4006	NP_005264.2	250	AFTTGSDDATCRLFDLRADQE
4007	NP_005264.2	271	LLMYSHDNIICGITSVAFSRS
4008	NP_005264.2	294	LLLAGYDDFNCNIWDAMKGDR
4009	NP_005266.2	365	RYKDGVVITIGCVGFNVGKSS
4010	NP_005266.2	410	TYFLTPSVKLCDCPGLIFPSL
4011	NP_005266.2	412	FLTPSVKLCDCPGLIFPSLLP
4012	NP_005266.2	474	AEDPSAEHPWCAWDICEAWAE
4013	NP_005266.2	479	AEHPWCAWDICEAWAEKRGYK
4014	NP_005266.2	517	RLAVDGRSLSLCFHPPGYSEQK
4015	NP_005324.3	25	SNASASPPSGCPMHGKMKGC
4016	NP_005324.3	35	CPMHGKMKGCPVNTPEPSGPT
4017	NP_005324.3	176	LKWEALHAAECPCGPSLIRFG
4018	NP_005324.3	178	WEALHAAECPCGPSLIRFGGK
4019	NP_005324.3	218	FDRHDWIINRCGTEVRYVIDY
4020	NP_005429.1	122	RERNKLAAAKCRNRRELKELTDF
4021	NP_005429.1	172	ELVLEAHRPICKIPEGAKEGD
4022	NP_005429.1	196	TSGTSSPPAPCRPVPCISLSP
4023	NP_005429.1	244	VFTYPTPEPCASAHKSSSS
4024	NP_005498.1	39	VKKRKKAVLFLCSEDKNIIIL
4025	NP_005498.1	80	TFVKMLPDKDCRYALYDATYE
4026	NP_005522.2	191	STENPKTVAKCQVTPRRNVLQ
4027	NP_005527.1	8	XXXMADPWQECMDYAVTLARQ
4028	NP_005527.1	125	KKIEFGVVYSCVEGKMYTARK

4029	NP_005527.1	184	MVLSNMEKLF CIPVHGIRSVG
4030	NP_005527.1	201	RSVGTAAVNMCLVATGGADAY
4031	NP_005527.1	218	ADAYYEMGIHCWDVAGAGIIV
4032	NP_005653.3	8	XXXMCNTPTYCDLGA AKDVF
4033	NP_005660.4	59	LVFGYGASLLCNLIGFGYPAY
4034	NP_005660.4	118	SWFPFYMLKCGFLWCMAPS
4035	NP_005660.4	124	YMLKCGFLWCMAPS SNGAE
4036	NP_005678.3	28	TYTDEEFDELCEFEGLLEDEI
4037	NP_005678.3	76	DVPANRYDLLCLEGLVRGLQV
4038	NP_005678.3	151	ELQEKLHQNICRKRALVAIGT
4039	NP_005678.3	255	TVNTRNIFIECTGTDFTKAKI
4040	NP_005678.3	278	DIIVTMFSEYECENQFTVEAAE
4041	NP_005678.3	362	PPTRADI IHACDIVEDAAIAY
4042	NP_005678.3	418	GFTEALTFALCSQEDIADKLG
4043	NP_005678.3	498	DVGAKNYRHLCVYYNKNPGF
4044	NP_005678.3	548	SEGPAFFPGRCAEIFARGQSV
4045	NP_005678.3	578	VITKFELTMPSSLEINVGPF
4046	NP_005683.2	161	MPPSDKTPLHCVMEVDTERAM
4047	NP_005683.2	292	SHSQDFLNGVCTNI IHMHKK
4048	NP_005683.2	388	DKTLSFYFPFCGKIPPPVIMV
4049	NP_005683.2	411	VSFKYTKDGP CIYNNLEFGID
4050	NP_005683.2	486	DLSPLEYMMKCYPEIKEKEEM
4051	NP_005683.2	523	PIRNLSDGQKCRVCLAWLAWQ
4052	NP_005683.2	526	NLSDGQKCRVCLAWLAWQNP
4053	NP_005683.2	586	IQQVAQEIWVCEKQITTKWPG
4054	NP_005683.2	624	PQLTKRTHNVCTLTLASLPRP
4055	NP_005685.1	24	SQEKKPLKPCACPETKKARD
4056	NP_005685.1	26	EKKPLKPCACPETKKARDAC
4057	NP_005685.1	36	CPETKKARDACI IEKGEEHCG
4058	NP_005685.1	45	ACI IEKGEEHCGHLIEAHKEC
4059	NP_005685.1	55	CGHLIEAHKECMRALGFKIXX
4060	NP_005769.1	187	NPRPKFEDWLCNKCLNNFRK
4061	NP_005769.1	190	PKFEDWLCNKCLNNFRKRLK
4062	NP_005769.1	191	KFEDWLCNKCLNNFRKRLKC
4063	NP_005769.1	201	CLNNFRKRLKCFRCGADKFDS
4064	NP_005769.1	204	NFRKRLKCFRCGADKF DSEQE
4065	NP_005769.1	230	TESVQSVDYCDTII LRNIAP
4066	NP_005769.1	649	EKLADWKKMACLLCRRQFPNK
4067	NP_005769.1	652	ADWKKMACLLCRRQFPNKDAL
4068	NP_005778.1	48	EPRYTLVAACLCLAEVGITF
4069	NP_005778.1	50	RYTLVAACLCLAEVGITFWV
4070	NP_005778.1	147	LLVFLIYHQTCKVPPVFFFM
4071	NP_005778.1	158	KVPPVFFFMCCASYRVHSIF
4072	NP_005778.1	159	VPPVFFFMCCASYRVHSIFV
4073	NP_005778.1	198	LLLAQRWGWCCFFSLAVSVK
4074	NP_005778.1	199	LLAQRWGWCCFFSLAVSVKM
4075	NP_005778.1	238	FRGALPKLGICAGLQVVLGLP
4076	NP_005778.1	307	HLTLLLLFALCRWHRGTGESIL
4077	NP_005778.1	351	TLFTSNFIGICFSRSLHYQFY
4078	NP_005778.1	404	LSWNTYPSTSCSSAALHICHA
4079	NP_005778.1	412	TSCSSAALHICHAVILLQLWL
4080	NP_005817.1	99	SHVQNKSAFLCGVMKTYRQRE
4081	NP_005817.1	214	QNRGYAFITFCGKEAAQEAVK
4082	NP_005817.1	292	PDDKKKNRGFCFLEYEDHKSA
4083	NP_005852.2	48	VGRKYPEAAACYGRAITRNPL
4084	NP_005852.2	83	MQQHEQALADCRRALELDGQS
4085	NP_005852.2	103	SVKAHFFFLGQCQLEMESYDEA
4086	NP_005852.2	180	AAERERELEECQRNHEGDEDD
4087	NP_005852.2	232	RKKRDIPDYLCGKISFELMRE
4088	NP_005852.2	244	KISFELMREPCITPSGITYDR
4089	NP_005862.1	79	PTHSWKVGDKCMAVWSE DGQC
4090	NP_005862.1	89	CMAVWSE DGQCYEAEIEEIDE
4091	NP_005886.2	45	VPPDQDQKVC AEVNRASTEG
4092	NP_005886.2	67	SPDGPQGGLCQNGPTPPFPD
4093	NP_005886.2	136	LSLPMQETQLCSTDSPLPLEK
4094	NP_005886.2	391	GEVRSRRDSICSSVSLESSAA
4095	NP_005886.2	1403	NPATPIKIPDCPV PASLLEEL
4096	NP_005886.2	1431	SKEPLKNLNSCLQQLKQEMDS
4097	NP_005902.1	34	SVGEGHPDKICDQISDAVLDA
4098	NP_005902.1	56	LQQDPDAKVACETVAKTG MIL
4099	NP_005902.1	149	FGYATDETEECMPLTIVLAHK
4100	NP_005902.1	214	VISVQHDEEVCLDEM RDALKE
4101	NP_005902.1	311	VAKSLVKGGLCRRV LVQVSYA
4102	NP_005906.2	26	LEVRDEVAEKCKQLFLDFLEE
4103	NP_005906.2	91	EEFYRVYPYLCRALKTFVKDR
4104	NP_005906.2	158	HPELVSGTFLCLDCQTVIRDV

4105	NP_005906.2	161	LVSGTFLCLDCQTVIRDVEQQ
4106	NP_005906.2	180	QQFKYTQPNICRNPVCANRRR
4107	NP_005906.2	185	TQPNICRNPVCANRRRFLDFT
4108	NP_005906.2	242	AVESAQAGDKCDFGTGLIVVP
4109	NP_005906.2	301	DLSYRLVFLACCVAPTNPFRFG
4110	NP_005906.2	351	SQDKNLYHNLCTSLFPTIHGN
4111	NP_005906.2	393	GTSLRGDINVCIVGDPSTAKS
4112	NP_005906.2	457	GALMLADNGVCCIDEFDKMDV
4113	NP_005906.2	540	FDLFFILVDECNEVTDYAIAR
4114	NP_005906.2	636	RLSEAMARMHCCDEVQPKHVK
4115	NP_005906.2	637	LSEAMARMHCCDEVQPKHVKE
4116	NP_005909.2	89	GYLGPQLPDCLKGCDVVVIP
4117	NP_005909.2	128	ATIVATLTAACAQHCPEAMIC
4118	NP_005909.2	132	ATLTAACAQHCPEAMICVIAN
4119	NP_005909.2	138	CAQHCPEAMICVIANPVNSTI
4120	NP_005909.2	212	GKTIIPPLISQCTPKVDFPQDQ
4121	NP_005909.2	275	AMNGKEGVVECSFVKSQETEC
4122	NP_005909.2	285	CSFVKSQETECTYFSTPLLLG
4123	NP_005959.2	676	WKMLKDKFNECGHVLYADIKM
4124	NP_005959.2	694	IKMENGKSKGCGVVKFESPEV
4125	NP_005959.2	709	FESPEVAERACRMMNGMKLSG
4126	NP_005969.1	86	AVFLALITVMCNDFQGCPCR
4127	NP_005989.3	173	KAISRWSSLACNIALDAVKMV
4128	NP_005989.3	279	QMEEEYIQQLCEDIQLKPDV
4129	NP_005989.3	327	KTDNNRIARACGARIVSRPEE
4130	NP_005989.3	372	FITDCKDPKACTILLRGASKE
4131	NP_005989.3	398	ERNLQDAMQVCRNVLLDPQLV
4132	NP_005989.3	455	EVIPTLIQNCGASTIRLLTS
4133	NP_005989.3	475	SLRAKHTQENCETWGVNGETG
4134	NP_005991.1	4	XXXXXXXXMRECISVHVGQAGV
4135	NP_005991.1	20	GQAGVQMGNACWELYCLEHGI
4136	NP_005991.1	25	QMGNACWELYCLEHGIQPDGQ
4137	NP_005991.1	54	GGDDSF'TFFCETGAGKHVPR
4138	NP_005991.1	200	TTHTTLEHSDCAFMDNEAIY
4139	NP_005991.1	295	QLSVAEITNACFEPANQMVKC
4140	NP_005991.1	305	CFEPANQMVKCDPRHGKYMAL
4141	NP_005991.1	376	GDLAKVQRAVCMLSN'TAIAE
4142	NP_006079.1	201	QLVENTDETYCIDNEALYDIC
4143	NP_006079.1	239	VSATMSGVTTCLRFPGQLNAD
4144	NP_006079.1	354	WIPNNVKTAVCDIPPRGLKMS
4145	NP_006136.1	179	RVSLEEIYSGCTKKMKISHKR
4146	NP_006136.1	269	RISLREALCGCTVNVPTLDGR
4147	NP_006182.2	49	SSSGVSVLSLCEKGDAMIMEE
4148	NP_006182.2	85	AFPTSISVNNVCVCHFSPKSD
4149	NP_006182.2	87	PTSISVNNVCVCHFSPKSDQD
4150	NP_006182.2	149	KADVIKAAHLCAEAA'LRLVKP
4151	NP_006182.2	179	AWNKVAHSFNCTPIEGMLSHQ
4152	NP_006187.2	118	QCGSLIGKGGCKIKEIRESTG
4153	NP_006187.2	163	QSVTECVKQICLVMLE'TLSQS
4154	NP_006187.2	201	PVICAGGQDRCSDAAGYPHAT
4155	NP_006187.2	293	ELTIPNNLIGCIIGRQGANIN
4156	NP_006209.2	24	HLMPPRILVECLLPNGMIVTL
4157	NP_006209.2	36	LPNGMIVTLECLREATLITIK
4158	NP_006209.2	126	EIGFAIGMPVCFEDMVKDPEV
4159	NP_006209.2	147	QDFRRNILLNVCKEAVDLRDLN
4160	NP_006209.2	215	QKYTLKINHDCVPEQVIAEAI
4161	NP_006209.2	255	EYQGYILKVCGCDEYFLEKY
4162	NP_006209.2	257	QGKYILKVCGCDEYFLEKYPL
4163	NP_006209.2	276	PLSQYKYIRSCIMLGRMPNLM
4164	NP_006209.2	301	ESLYSQLPMDCF'TMPSYSRRI
4165	NP_006209.2	340	INSALRIKILCATYVNVNIRD
4166	NP_006209.2	368	TGIYHGGEPLCDNVNTQRVPC
4167	NP_006209.2	378	CDNVNTQRVPCSNPRWNEWLN
4168	NP_006209.2	403	IPDLPRAARLCLSICSVKGRK
4169	NP_006209.2	407	PRAARLCLSICSVKGRKGAKE
4170	NP_006209.2	420	KGRKGAKKEHCPLAWGNINLF
4171	NP_006209.2	472	TGSNPNKETPCLELEFDW'FSS
4172	NP_006209.2	558	KDFLWSHRHYCVTIPEILPKL
4173	NP_006209.2	585	NSRDEVAQMYCLVKDWP'IKP
4174	NP_006209.2	604	KPEQAMELLDCNYPDPMVRGF
4175	NP_006209.2	618	DPMVRGFAVRCLEKYL'TDDKL
4176	NP_006209.2	692	QRFGLLLESYCRACGM'YLKHL
4177	NP_006209.2	695	GLLLESYCRACGM'YLKHLNRQ
4178	NP_006209.2	769	HQLGNLRL'EECRIMSSAKRPL
4179	NP_006209.2	838	GLDLRMLPYGCLSIGDCVGLI
4180	NP_006209.2	844	LPYGCLSIGDCVGLIEVVRNS

4181	NP_006209.2	862	RNSHTIMQIQCKGGLK GALQF
4182	NP_006209.2	901	DAAIDLFRSCAGYCVATFIL
4183	NP_006209.2	971	LIVISKGAQECTKTREFERFQ
4184	NP_006209.2	984	TREFERFQEMCYKAYLAIRQH
4185	NP_006238.1	139	DKDAKMKYQECNKIVKQKAFE
4186	NP_006238.1	208	YKDQKHLHRKCAYQILVQVKE
4187	NP_006238.1	240	TLKETEKITVCGDTHGQFYDL
4188	NP_006238.1	343	EVFEWLPLAQ CINGKVLIMHG
4189	NP_006238.1	382	NRQPPDSGPMCDLLWSDPQPQ
4190	NP_006238.1	404	GRSISKRGVSCQFGPDVTKAF
4191	NP_006238.1	442	EGYEVAHGGRCVTVFSAPNYC
4192	NP_006238.1	452	CVTVFSAPNYCDQMGNKASYI
4193	NP_006254.1	22	AKVDVFREDLCTKTENLLGSY
4194	NP_006254.1	106	DKGPPCGPVNCNEKIVVLLQR
4195	NP_006280.3	29	FEPSTMVYDACRIIRERIPEA
4196	NP_006280.3	116	KTVTDMLMTICARIGITNHDE
4197	NP_006280.3	236	GSHPVSFDKACEFAGFQCQIQ
4198	NP_006280.3	243	DKACEFAGFQCQIQFGPHNEQ
4199	NP_006280.3	286	ERKIFQAHKNCGQMSIEAKV
4200	NP_006280.3	336	VPRLGITKECVMRVDEKTKE
4201	NP_006280.3	575	PAETDYTAVGCAVTTISSNLT
4202	NP_006280.3	709	QTQVIAAATQCALSTS QLVAC
4203	NP_006280.3	719	CALSTS QLVACTKV VAPTISS
4204	NP_006280.3	732	VVAPTISSPVCQEQLVEAGRL
4205	NP_006280.3	750	GRLVAKAVEGCVSASQAATED
4206	NP_006280.3	956	AGPQPLLQVQSCKAVAEQIPLL
4207	NP_006280.3	1023	DQASAMQLSQCAKNLGTALAE
4208	NP_006280.3	1045	RTAAQKAQEACGPLEMDSALS
4209	NP_006280.3	1087	KPLPGETMEKCTQDLGNSTKA
4210	NP_006280.3	1199	AKAVTQALNRCVSCLPQQRDV
4211	NP_006280.3	1202	VTQALNRCVSCLPQQRVDNA
4212	NP_006280.3	1353	TDSINQLITMCTQQAPGQKEC
4213	NP_006280.3	1363	CTQQAPGQKECDNALRELETV
4214	NP_006280.3	1392	QPINDMSYFGCLDSVMENSKV
4215	NP_006280.3	1434	DAISTASKALCGFTEAAAQAA
4216	NP_006280.3	1478	ARANQAIQMACQSLGEPGCTQ
4217	NP_006280.3	1486	MACQSLGEPGCTQAQVLSAAT
4218	NP_006280.3	1506	TIVAKHTSALCNSCRLASART
4219	NP_006280.3	1509	AKHTSALCNSCRLASARTTNP
4220	NP_006280.3	1558	GAFTEENRAQCRAATAPLLEA
4221	NP_006280.3	1661	MRDKAPGQLECEATAAALNSC
4222	NP_006280.3	1671	CETAIAALNSCLRDLQASLA
4223	NP_006280.3	1927	KHRVQELGHGCAALVTKAGAL
4224	NP_006280.3	1953	DAYTKKELIECARRVSEKVVSH
4225	NP_006280.3	1978	LQAGNRGTQACITAASAVSGI
4226	NP_006280.3	2161	EHIRQELAVFCSPEPPAKTST
4227	NP_006280.3	2196	TAKAVAAGNSCRQEDVIATAN
4228	NP_006280.3	2219	RRAIADMLRACKEAAYHPEVA
4229	NP_006280.3	2243	RLRALHYGRECANGYLELLDH
4230	NP_006280.3	2408	RMVAAATNNLCEAANA AVQGH
4231	NP_006280.3	2442	AASTAQLLVACKVKADQDSEA
4232	NP_006286.1	112	YADTELI PAACGATLPALGLR
4233	NP_006286.1	340	AANPRGVFMMCI PPNVTGSL
4234	NP_006286.1	381	RGETTLWNPGCDHAGIATQVV
4235	NP_006286.1	444	LGSSLDWRACFTMDPKLSAA
4236	NP_006286.1	479	YRSTRLVNWSCTLNSAISDIE
4237	NP_006286.1	663	IEDNPMVVPLCNRSKD VVEPL
4238	NP_006286.1	682	PLLRPQWYVRCGEMAQAASAA
4239	NP_006286.1	720	HAWMDNIREWCISRQLWWGHR
4240	NP_006286.1	917	KADFPAGIPECGTDALRFGLC
4241	NP_006286.1	927	CGTDALRFGLCAYMSQGRDIN
4242	NP_006286.1	950	VNRLLGYRHFCNKLWNATKFA
4243	NP_006286.1	1023	AQYSFWLYELCDVYLECLKPV
4244	NP_006286.1	1029	LYELCDVYLECLKPVLNGVDQ
4245	NP_006286.1	1044	LNGVDQVA AEARQTLTYCLD
4246	NP_006286.1	1052	AECARQTLTYCLDVG LRLLS
4247	NP_006286.1	1087	RRMPQAPPSLCVTPY PEPSEC
4248	NP_006286.1	1097	CVTPY PEPSECSWKDPEAEAA
4249	NP_006286.1	1134	DYNLTRIRPDCFLVAD EATG
4250	NP_006286.1	1176	LALGAPAPQGCAVALASDRCS
4251	NP_006286.1	1185	GCAVALASDRCSIHLQLQGLV
4252	NP_006294.2	168	VKSVPENLLKCFGEQNKQQR
4253	NP_006294.2	205	TQMKFSIQTMCP IEGEGNIAR
4254	NP_006294.2	291	LWSVLQQIGGCSVTVPANVQR
4255	NP_006294.2	306	PANVQRWMRSCENLAPFNTAL
4256	NP_006316.1	85	LRDGYIQAQCAIIMFDVTSR

4257	NP_006377.2	11	MPTGFVAPILCVLLPSPTREA
4258	NP_006377.2	166	KEITVRGGDVCPKPVFAFHHA
4259	NP_006377.2	199	QHFTEPTPIQCQGFPLALSGR
4260	NP_006377.2	247	PYLERGDGPICLVLPATRELA
4261	NP_006377.2	277	YGKCSRLKSTCIYGGAPKGPQ
4262	NP_006377.2	298	IRDLERGVEICATPGRLLIDF
4263	NP_006377.2	319	LESGKTNLRRCTYLVLDEADR
4264	NP_006377.2	397	NHNILQIVDVCMESEKDHKLI
4265	NP_006377.2	431	TIIFVETKRRCDLTRMRRD
4266	NP_006378.3	58	FGGEFYYSYKCKLALQQLI
4267	NP_006378.3	168	DNLLQPIIDTCTKDAISAGKN
4268	NP_006378.3	190	MFSNAKSPPHCELMAGHLRNR
4269	NP_006378.3	225	IYLINDVLHHCQRKQARELLA
4270	NP_006378.3	246	ALQKVVPPIYCTSFLLAVEEDK
4271	NP_006378.3	452	YPHHQGGPPHCPPWNNSHEGM
4272	NP_006383.2	52	FHSIVRLVAFPCPFASSQVALE
4273	NP_006383.2	112	AAIQEELGYNCQTGGVIAEIL
4274	NP_006383.2	211	VKIINDNATYCRLAQFIGNRR
4275	NP_006383.2	376	GRISRYLANKCSIASRIDCFIS
4276	NP_006383.2	384	NKCSIASRIDCFSEVPTSVFG
4277	NP_006383.2	472	SENSSTPEECEEMSEKPKKK
4278	NP_006387.1	56	YRMLGETCADCGTILLQDKQR
4279	NP_006387.1	70	LLQDKQRKIYCVACQELSDV
4280	NP_006387.1	73	DKQRKIYCVACQELSDVDKD
4281	NP_006387.1	125	PQPPVPRPEHCEGAAAGLKAA
4282	NP_006387.1	181	STSLETSIQLCGLIRACAEAL
4283	NP_006387.1	187	SIQLCGLIRACAEALRSLQQL
4284	NP_006400.2	13	LHQFLEPITCHAWNDRDTQI
4285	NP_006400.2	70	WAPKSDRIVTCGADRNAVVS
4286	NP_006400.2	123	VGSGARLISVCYFESENDWWV
4287	NP_006400.2	162	PNNVLLAAGSCDFKCRVFSAY
4288	NP_006400.2	166	LLAAGSCDFKCRVFSAYIKEV
4289	NP_006400.2	267	ENSVVAAGHDCCPMLFNYDDR
4290	NP_006400.2	268	NSVVAAGHDCCPMLFNYDDRG
4291	NP_006400.2	340	VSIYEVDKQDCRKFCTTGIDG
4292	NP_006400.2	344	EVDKQDCRKFCTTGIDGAMTI
4293	NP_006421.2	120	VIIAGSLDSCTKLLQKGIHP
4294	NP_006421.2	221	VKKLGGTIDDCELVEGLVLTQ
4295	NP_006421.2	337	DIEREDIEFIKTIKTKPVAH
4296	NP_006421.2	410	EAERSIHDALCVIRCLVKKRA
4297	NP_006421.2	414	SIHDALCVIRCLVKKRALIAG
4298	NP_006421.2	450	SRTLSGMESYCVRAFADAMEV
4299	NP_006422.1	289	VERILKHGINCFINRQLIYNY
4300	NP_006422.1	346	DHPELVKLGSCKLIIEVMIGE
4301	NP_006422.1	371	HFGVALGEACTIVLRGATQQ
4302	NP_006422.1	412	KDSRTVYGGGCSEMLMAHAVT
4303	NP_006433.2	73	KTMTTSHLKCIELEQQFDFL
4304	NP_006435.2	46	SGKSNILDSICFLLGINSLSQ
4305	NP_006435.2	132	ANNTRVQDLFCVGLNVNPNH
4306	NP_006435.2	405	EATLAGQMMACKNDISKAQTE
4307	NP_006435.2	521	KDPEKNWNRNCVKGLVASLIS
4308	NP_006435.2	585	IIPLNKISARCIAPETLRVAQ
4309	NP_006435.2	630	MEFVFGTTFVCDNMDNAKVA
4310	NP_006435.2	800	ELKDAQKKLDCAKTKADASSK
4311	NP_006435.2	1174	GVSTVARFTQCQNGKISKEAK
4312	NP_006444.2	41	QLDQTGQHLCVCGTRVNILE
4313	NP_006444.2	43	DQTGQHLCVCGTRVNILEVA
4314	NP_006444.2	187	IRVWSLQDRSCLAVLTAHYS
4315	NP_006444.2	219	TMLSSGRDKICIIWDLQSCQA
4316	NP_006444.2	227	KICIIWDLQSCQATRTVPVFE
4317	NP_006444.2	281	LRVWEAASQCQVYTQAQPPGP
4318	NP_006444.2	298	PPGPGQELTHCTLAHTAGVVL
4319	NP_006444.2	358	SHVVVASNSPCLKVFEHQTS
4320	NP_006444.2	369	LKVFEHQTSACQILHGHTDIV
4321	NP_006444.2	394	VFRKGWLFASCAKDQSVRIWR
4322	NP_006444.2	413	WRMNKAGQVMCVAQGSHTHS
4323	NP_006444.2	428	SGHTHSVGTVCCSRLKESFLV
4324	NP_006444.2	429	GHTHSVGTVCCSRLKESFLVT
4325	NP_006444.2	444	ESFLVTGSQDCTVKLWLPKA
4326	NP_006444.2	477	ILLQAQTTQRCHDKDINSVAI
4327	NP_006444.2	511	RTAKLWALPQCQLLVFSGHR
4328	NP_006444.2	526	VFSGHRRGLWCQVQSPMDQVL
4329	NP_006444.2	597	VKLWTIKNNECVRTLDAHEDK
4330	NP_006444.2	613	AHEDKVWGLHCSRLDDHALTG
4331	NP_006444.2	718	RDQKEALLRFVWNTNSRHC
4332	NP_006444.2	728	CVTWNTNSRHCHEAQAVLGV

4333	NP_006451.1	18	EYQHQPQTSNCTGAAAVQEEL
4334	NP_006451.1	84	LQTQACPRESSCLREGEKQNG
4335	NP_006451.1	122	TPEAELLAQPCHDSEASKLGA
4336	NP_006451.1	297	LIKEYLELEKCLSRMEDENNR
4337	NP_006452.3	46	LTNSGKRSPACSSLTPLSCKL
4338	NP_006452.3	54	PACSSLTPLSCKLGLQEGSNN
4339	NP_006452.3	93	FSHSSKWLETCQHESEDEQPLD
4340	NP_006452.3	177	DDLVREEVAPCMGDRFSEVAA
4341	NP_006452.3	210	HLLEESPPNPCSEQLHCSKES
4342	NP_006452.3	216	PPNPCSEQLHCSKESLSSRTE
4343	NP_006452.3	307	VSSVEDILSTCLTPNLVEMES
4344	NP_006452.3	382	AAIGTTPFSTCSVGTWTFPSA
4345	NP_006452.3	544	QESRRAETLVCCCFDLLKCLR
4346	NP_006452.3	545	ESRRAETLVCCCFDLLKCLR
4347	NP_006452.3	546	SRRAETLVCCCFDLLKCLR
4348	NP_006452.3	589	DAAEIVLEAFCAHASQRISQL
4349	NP_006452.3	704	LEQVSAQLEECKGQTEQLELE
4350	NP_006452.3	746	LKELQSQHHTCAQDLAMKDEL
4351	NP_006452.3	758	QDLAMKDELCLQTLQSNEEQA
4352	NP_006452.3	822	VAHLELGQVEQCQKTTLEVL
4353	NP_006452.3	907	EQETLLLLSTACPPTQEHPLPN
4354	NP_006452.3	984	SIMTTELQSLCSLLQESKEEA
4355	NP_006452.3	1101	EALAGQLDSNCQPMATNWIQE
4356	NP_006460.2	39	GQFCDVRLQVCGHEMLAHR
4357	NP_006460.2	52	EMLAHRVLAACSPYLFEIFN
4358	NP_006460.2	53	MLAHRVLAACSPYLFEIFNS
4359	NP_006460.2	121	KLKMDRVKQVCGDYLLSRMDV
4360	NP_006460.2	134	YLLSRMDVTSCISYRNFASCM
4361	NP_006460.2	187	KLEVMLEDNVCLPSNGKLYTK
4362	NP_006460.2	274	HKQISSSTGCLSSPNATVQS
4363	NP_006460.2	304	SEKTSNNTYLCLAVLDGIFCV
4364	NP_006460.2	313	LCLAVLDGIFCVIFLHGRNSP
4365	NP_006460.2	381	IAAGGYNREECLRTVECYNPH
4366	NP_006460.2	387	NREECLRTVECYNPHTDHWSF
4367	NP_006460.2	432	GSNGHSDDLSCGEMYSNIDD
4368	NP_006460.2	454	IPVPELRTNRCNAGVCALNGK
4369	NP_006460.2	459	LRTNRCNAGVCALNGKLYIVG
4370	NP_006460.2	482	DPYGGKGLKNCDVDFPVTKLW
4371	NP_006460.2	495	FDPVTKLWTSAPLNIRRHQS
4372	NP_006460.2	564	VAVLNGKLFVCGGFDGSHAIS
4373	NP_006460.2	575	GGFDGSHAISCVEMYDPTRE
4374	NP_006461.3	77	DPAGEGKEVLCDFCLDDTRRV
4375	NP_006461.3	93	DTRRVKAVKSCLTCMVNYCEE
4376	NP_006461.3	96	RVKAVKSCLTCMVNYCEEHLQ
4377	NP_006461.3	101	KSCLTCMVNYCEEHLQPHQVN
4378	NP_006461.3	131	EPVKDHNWRYCPAHSPLSAF
4379	NP_006461.3	142	PAHSPLSAFCCPDQQCICQD
4380	NP_006461.3	143	AHHSPLSAFCCPDQQCICQDC
4381	NP_006461.3	148	LSAFCCPDQQCICQDCCQEH
4382	NP_006461.3	150	AFCCPDQQCICQDCCQEHSGH
4383	NP_006461.3	153	CPDQQCICQDCCQEHSGHTIV
4384	NP_006461.3	154	PDQQCICQDCCQEHSGHTIVS
4385	NP_006461.3	286	SNTVQFLEEYCKFKNTEDITF
4386	NP_006461.3	446	FGAGTYVGLTCKGIDRKGEER
4387	NP_006461.3	459	IDRKGEERNSCISGNNSWSL
4388	NP_006461.3	524	DTMTLVHKFACKFSEPVYAAF
4389	NP_006535.1	111	EHISYVATKVCHLGDQLEGVN
4390	NP_006535.1	228	VLLHFVKGYSHCVDVYIKQCQE
4391	NP_006535.1	236	SHCVDVYIKQCQEGAYLRNDI
4392	NP_006535.1	254	NDIFEDAGILCQRVKNQVGD
4393	NP_006535.1	295	QSFVKEQLEECRKSDAEQYLK
4394	NP_006535.1	430	LQETKQAFERCHRLSDPSDLP
4395	NP_006535.1	455	RIFTILVEFLCIEHIDYALET
4396	NP_006535.1	517	LISSPKLSECLQKKKEIEIQ
4397	NP_006535.1	542	LDTGIDRTLNCMIGQMKHILA
4398	NP_006535.1	576	NNVLIQYTNACVKVCAYVRKQ
4399	NP_006535.1	580	IQYTNACVKVCAYVRKQVEKI
4400	NP_006535.1	625	YEHLQQYSYSCMGMLAICDV
4401	NP_006535.1	633	YSCMGMLAICDVAEYRCKAK
4402	NP_006535.1	641	AICDVAEYRCKAKDFKIPMVL
4403	NP_006535.1	661	LHLFDTLHALCNLLVAPDNL
4404	NP_006535.1	675	VVAPDNLKQVCSGQQLANL
4405	NP_006556.1	38	RREGGQEEACHLPQNQTDGG
4406	NP_006556.1	155	EGLAESEPMICHTLPLPEGFQ
4407	NP_006556.1	268	KKKGVKKTFQCELCSTCPRR
4408	NP_006556.1	271	GVKKTFQCELCSTCPRRNL

4409	NP_006556.1	275	TFQCELCSYTCPRRNLDRHM
4410	NP_006556.1	296	KSHTDERPHKCHLCGRAFRTV
4411	NP_006556.1	327	TGTRPHKCPDCDMAFVTSSEL
4412	NP_006556.1	384	TGERPFQCSLCSYASRDYKLL
4413	NP_006556.1	409	RTHSGEKPYECYICCHARFTQS
4414	NP_006556.1	412	SGEKPYECYICCHARFTQSGTM
4415	NP_006556.1	439	KHTENVAKFHCPHCDTVIARK
4416	NP_006556.1	442	ENVAKFHCPHCDTVIARKSDL
4417	NP_006556.1	469	QHSYIEQGGKCRYCDAVHER
4418	NP_006556.1	500	KNEKRFKCDQCDYACRQERHM
4419	NP_006556.1	504	RFKCDQCDYACRQERHIMHK
4420	NP_006556.1	557	DPNFVPAAFVCSKCGKTFTRR
4421	NP_006556.1	560	FVPAAFVCSKCGKTFTRRNTM
4422	NP_006556.1	577	RNTMARHADNCAGPDGVEGEN
4423	NP_006576.2	136	SEVIEGYEIACRKAHEILPNL
4424	NP_006576.2	148	KAHEILPNLVCCSAKNLRDID
4425	NP_006576.2	149	AHEILPNLVCCSAKNLRDIDE
4426	NP_006576.2	187	VFLAKLIAQACVSIFFPDSGHF
4427	NP_006576.2	205	GHFNVDNIRVCKILGSGISSS
4428	NP_006576.2	244	VKDAKIAVYSCPFDMITETK
4429	NP_006576.2	325	LNSKWDLRRLCKTVGATALPR
4430	NP_006588.1	267	KRAVRRLRTACERAKRTLSSS
4431	NP_006588.1	574	DEDKQKILDKNEIINWLDKN
4432	NP_006614.2	18	KVLISDSLDPCCRKLILQDGG
4433	NP_006614.2	48	KEELIAELQDCEGLIVRSATK
4434	NP_006614.2	111	GNSLSAAELTCGMIMCLARQI
4435	NP_006614.2	116	AAELTCGMIMCLARQIPQATA
4436	NP_006614.2	200	QLPLEEITWPLCDFITVHTPLL
4437	NP_006614.2	225	GLLNDNTFAQCKKGVVVNCA
4438	NP_006614.2	234	QCKKGVVVNCARGGIVDEGA
4439	NP_006614.2	254	ALLRALQSGQCAGAALDVFTTE
4440	NP_006614.2	281	ALVDHENVISCPHLGASTKEA
4441	NP_006614.2	295	GASTKEAQSRCGEEIAVQFVD
4442	NP_006614.2	421	AAPGEQGFGECLLAVALAGAP
4443	NP_006635.2	34	ETIANEFSDRCTPSVISFGSK
4444	NP_006635.2	650	EYVYEFDRDKLCPYEKFIQEQ
4445	NP_006635.2	845	GAEPHQNGECYPNEKNSVNM
4446	NP_006640.2	380	DGNPWMLRSCTSDTKEAATQ
4447	NP_006699.2	19	GGLTDEAALSCCSDADPSTKD
4448	NP_006699.2	20	GLTDEAALSCCSDADPSTKDF
4449	NP_006699.2	139	GIAVPDVYSACKRFELGVKF
4450	NP_006744.2	19	AYLQSLAKKICSHSAPEQQAR
4451	NP_006747.1	144	PSTSDSVRLKCREMLAALRT
4452	NP_006747.1	212	KNPNLRKNVLCGNIPDLFAR
4453	NP_006747.1	263	TGGTQTDLFTCGKCKKKNCTY
4454	NP_006747.1	266	TQTDLFTCGKCKKKNCTYTQV
4455	NP_006747.1	291	ADEPMTTFVVCNECGNRWKFC
4456	NP_006747.1	294	PMTTFVVCNECGNRWFCXXX
4457	NP_006752.1	97	QMVETELKLIICDILDVLDKH
4458	NP_006752.1	192	YEILNSPDRACRLAKAAFDDA
4459	NP_006764.3	183	AFEDTSFASLCNLVNENTLKA
4460	NP_006764.3	435	KKKLMVFFSSCMSVKYHYELL
4461	NP_006764.3	472	NKRTRTFVFCNADSGTLLCT
4462	NP_006776.1	91	VLEPEGSPSLCLLKLMEKGC
4463	NP_006776.1	101	CLLKLMEKGCCTVTELSDFLQ
4464	NP_006776.1	147	AVLAGQFVKLCCRATGHPFVQ
4465	NP_006776.1	148	VLAGQFVKLCCRATGHPFVQY
4466	NP_006776.1	190	VHVKDAGFYVCRVNNNFTFEF
4467	NP_006776.1	209	EFSQWSQLDVCDIPESFQRSV
4468	NP_006776.1	230	DGVSESKLQICVEPTSQKLMP
4469	NP_006776.1	248	LMPGSTLVLQCVAVGSPIPHY
4470	NP_006776.1	290	VDLEHQGTYWCHVYNDRDSQD
4471	NP_006776.1	317	IIGRTDEAVECTEDELNNLGH
4472	NP_006776.1	439	DAPNPYRSENCLCVQNILKLM
4473	NP_006776.1	441	PNPYRSENCLCVQNILKLMQE
4474	NP_006776.1	464	TGLNVFLLDMCRKRNDYDDTI
4475	NP_006776.1	493	TANIVFGYATCQGAEEAFIQH
4476	NP_006776.1	539	LDEVAEDMGKCHLTKGQALE
4477	NP_006776.1	591	AKAHELPEMSCLKFDCGVQIQ
4478	NP_006776.1	596	LPESMCLKFDCGVQIQLGFAA
4479	NP_006776.1	628	IVYKPEIIMCDAYVTDFFLD
4480	NP_006776.1	667	YLVSKDLPKHCLYTRLSSLQK
4481	NP_006776.1	687	KLKEHLVFTVCLSYQYSGLED
4482	NP_006776.1	726	DMHRGLGRKTCFQTCCLMSNGP
4483	NP_006776.1	730	GLGRKTCFQTCCLMSNGPYQSS
4484	NP_006776.1	777	NPSNVTPADSCHCSRTPDAFI

4485	NP_006776.1	779	SNVTPADSCHCSRTPDAFISS
4486	NP_006776.1	796	FISSFHSHASCHFSSRNPVPE
4487	NP_006810.1	26	SVGNIDDALQCYSEAIKLDPH
4488	NP_006810.1	62	GDYQKAYEDGCKTVDLKPDWG
4489	NP_006810.1	278	VYFEKGDYKNCRELCEKAIEV
4490	NP_006810.1	282	KGDYKNCRELCEKAIEVGRN
4491	NP_006810.1	339	EHRTPDVLLKCKQQAELILKEQ
4492	NP_006810.1	370	ALEKNKGNCFQKGDYPQAM
4493	NP_006810.1	417	LLEFQLALKDCEECIQLEPTF
4494	NP_006810.1	420	FQLALKDCEECIQLEPTFIK
4495	NP_006810.1	471	CKEADGYQRCMMAQYNRHDS
4496	NP_006816.2	126	LVAAAAFSGWCVHHVLEEVQQ
4497	NP_006817.1	25	QAERYDDMATCMKAVTEQGAE
4498	NP_006817.1	237	LWTSDSAGEECDAAEGAENXX
4499	NP_006819.2	131	PFPSSSATAACNATNRIISHF
4500	NP_006819.2	208	KFLNEHLQEACTIONPELKPVEKT
4501	NP_006819.2	225	VEKTNGSFLWCEVEKYLNSTL
4502	NP_006819.2	248	MTEVPRVEDLCTLYDMLASI
4503	NP_006819.2	249	TEVPRVEDLCTLYDMLASIK
4504	NP_006819.2	310	DHRFQALQDNCKKILGENAKP
4505	NP_006819.2	366	EDLEVSEGLMCFDPKELRIQR
4506	NP_006819.2	498	AYNTNENMLICAPTGAGKTNI
4507	NP_006819.2	690	PLGQTFLLGKICANKMQQLNMM
4508	NP_006819.2	704	MQQLNMMDEVYENVLKQVKA
4509	NP_006819.2	742	AMSLIERAKNCGHIPFFFTQ
4510	NP_006819.2	808	FSNGHIKVLVCTATLAWGVNL
4511	NP_006819.2	1042	EELDTLLSNFCELSTPGGVEN
4512	NP_006819.2	1175	HVNIIGLVKVCVHQIPVMMME
4513	NP_006819.2	1283	SDRWLGAEAVCIINFQHLILP
4514	NP_006819.2	1343	QIFHTLYHTDCNVLLGAPTGS
4515	NP_006819.2	1535	HIQGFPGQHYCPRMASMNKPA
4516	NP_006819.2	1638	RKTVEELFVNCKVQVLIATST
4517	NP_006819.2	1800	KSLIELELSYICIEIGEDNRSI
4518	NP_006819.2	1840	KMFKDRLKPECSTEEILLSILS
4519	NP_006819.2	1874	EDHMNSELAKCLPIESNPHSF
4520	NP_006819.2	1906	QAHLSRAMLPCPDYDTDTKTV
4521	NP_006819.2	1924	KTVLDQALRVCQAMLDVAANQ
4522	NP_006819.2	2003	IESLPELIHACGGKDHVFSM
4523	NP_006819.2	2101	FGFHKGKPESCAVTPRFPKSK
4524	NP_006819.2	2165	YIYTLYFMSDCYLGLDQQYDI
4525	NP_006827.1	51	DLPEGAVKGLCKLFLTLHRY
4526	NP_006827.1	55	GAVKGLCKLFLTLHRYRDA
4527	NP_006827.1	121	SAALLALTWTCLLVRFVPSR
4528	NP_006827.1	147	DIWNKLVEVQCLLLLEVLGGS
4529	NP_006827.1	207	AGMLGLLVQFCTSHKEMDVVS
4530	NP_006827.1	329	VLALRNLRQCSDSSAMESLT
4531	NP_006827.1	414	VHAVSVLALWCNRFMEVPPK
4532	NP_006827.1	449	TSAVRHAYLQCMLASYRGDTL
4533	NP_006827.1	540	FLVMASEDALCTVLHLTERLF
4534	NP_006827.1	907	IKNPFSLAACVMP SRLKALG
4535	NP_006827.1	932	HVTLRLLKPECVLDKSWQEE
4536	NP_006827.1	939	KPECVLDKSWQEELSVAVKR
4537	NP_006827.1	1067	VLASDTLTTLCASSSGDDGCA
4538	NP_006827.1	1089	AEQEEVDVLLCALQSPCASVR
4539	NP_006827.1	1095	DVLLCALQSPCASVRETVLRG
4540	NP_006827.1	1161	MMGLDLQPDLC SLLIDDVIYH
4541	NP_006827.1	1235	ESPPDQWEARCGLALALNKLS
4542	NP_006827.1	1275	LNDRHPDVRKCM LDAALATLN
4543	NP_006827.1	1362	SQQVQESVASCLPPLVPAIKE
4544	NP_006827.1	1446	EGALFAFEMLCTMLGKLFEPY
4545	NP_006827.1	1467	VVHVLP HLLLCFGDGNQYVRE
4546	NP_006827.1	1482	NQYVREAADDCAKAVMSNL SA
4547	NP_006827.1	1527	SVELLGAMAYCAPQLSSCLP
4548	NP_006827.1	1535	AYCAPQLSSCLPNIVPKLTE
4549	NP_006827.1	1595	LTDPSRKTQKCLQTLTDFV
4550	NP_006827.1	1692	GAMVKMGESCFCEDLLPWLME
4551	NP_006827.1	1781	FTPYVGP IIPCILKALADENE
4552	NP_006827.1	1938	GLLLGFLASTCADKRTIAART
4553	NP_006827.1	1984	SQKSDERQVCIGLSEIMKST
4554	NP_006827.1	2136	TPDEQLEMANCQAVILSVEDD
4555	NP_006827.1	2179	QAAAILNIYCSRSKADYTS
4556	NP_006827.1	2255	ESKGEHVPGFCLPKKGVTSIL
4557	NP_006827.1	2449	EDNTRISSAGCLGELCAFLTE
4558	NP_006827.1	2454	ISSAGCLGELCAFLTEELSA
4559	NP_006827.1	2469	EEELSAVLQQCLLADVSGIDW
4560	NP_006827.1	2501	VAVNVAPGRLCAGRYSSDVQE

4561	NP_006827.1	2558	PAKLSSLFVKCLQNPSSDIRL
4562	NP_006861.1	12	ASGVQVADEVCRIFYDMKVRK
4563	NP_006861.1	135	KKKFQGIKHECQANGPEDLNR
4564	NP_008839.2	18	VVG DGAVGKTCLLISYTNF
4565	NP_008933.2	60	QQTDDSLIHFCWKDRTSGNVE
4566	NP_008933.2	80	EDDLIIFPDDCEFKRVPQCPS
4567	NP_008933.2	121	EPKTDQDEEHCRKVNEYLNPN
4568	NP_008933.2	357	LASGQLGPLMCQFGLPAEAVE
4569	NP_008972.2	23	DYFPPSEDFYRCGYCKNESGSR
4570	NP_008972.2	26	PSEDFYRCGYCKNESGSRNNG
4571	NP_008972.2	71	YVYKPVMNQTCCPQYTI RCRP
4572	NP_008972.2	72	VYKPVMNQTCCPQYTI RCRPL
4573	NP_008972.2	79	QTCCPQYTI RCRPLQFQPSKS
4574	NP_008972.2	111	LAKGEVPGKSGCEDEPMDSTMD
4575	NP_008972.2	205	GKGADLSKPPCRKAKEIRKER
4576	NP_008972.2	310	VAIHQDPPEDECGKTEFTRFLC
4577	NP_008972.2	320	CGKTEFTRFLCSSLPLAETPP
4578	NP_008972.2	335	EAETPPNGPDCGYGSFHQQYW
4579	NP_008972.2	362	AVGVIDILPNCVSSVLYYDP
4580	NP_008972.2	413	YYMGGFYIHSCPMMKYKQYR
4581	NP_008972.2	429	KGQYRPSDLLCPETYVWVPIE
4582	NP_008972.2	441	ETYVWVPIEQCLPSLENSKYC
4583	NP_008972.2	451	CLPSLENSKYCRFNQDPEAVD
4584	NP_008972.2	509	LQYASLVGQKCSERMLLFRNX
4585	NP_009045.2	158	TESQVKDSSLCVSGETLAAGT
4586	NP_009045.2	301	TSFQLLSASACPEYNRLDDFQ
4587	NP_009045.2	317	LDDFQKLTESCCSSDAFERID
4588	NP_009045.2	318	DDFQKLTESCCSSDAFERIDS
4589	NP_009045.2	448	PEALSEKEDVCKTVEFLNEKL
4590	NP_009045.2	518	AEAEKKVQLACKERDAAKKEI
4591	NP_009045.2	857	AQLESEKNRLCKLEDENRYQ
4592	NP_009129.1	15	GSMSAELGVGCALRAVNERVQ
4593	NP_009129.1	86	KASNPKILSLCPEIKWHFIGH
4594	NP_009129.1	172	IAIVEHINAKCPNLEFVGLMT
4595	NP_009215.1	67	VLPLLDAQQPCYLLYRLDSQN
4596	NP_009215.1	264	VFIYSMPGYKCSIKERMLYSS
4597	NP_009215.1	275	SIKERMLYSSCKSRLDLSVEQ
4598	NP_015559.2	48	EDSDREDGNYCPPVKRETTSS
4599	NP_015559.2	135	GTNGVSLPADCTGAVPAASPD
4600	NP_015559.2	181	ESSNASEEEEACEKKDPATQQA
4601	NP_015559.2	316	AAATKATARKCCLKVEVITG
4602	NP_015559.2	338	EAESNVLQMCKLQVDFKTSQ
4603	NP_031372.2	6	XXXXMDDPDCDSTWEDEED
4604	NP_031372.2	25	EDAEDAEDCEDCEGAAGARD
4605	NP_031372.2	73	SRNWRATRDMCRYRHNYPDLV
4606	NP_031372.2	87	HNYPDLVERDCNGDTPNLSFY
4607	NP_031372.2	108	RNEIRFLPNGCFIEDILQNW
4608	NP_031372.2	263	ALDYFMFAVRCRHRQRQLVHF
4609	NP_031372.2	282	HFAWEHFRPRCKFVWGPQDKL
4610	NP_031372.2	330	DHEASTQGRTCGPEHSGGGR
4611	NP_031401.1	39	STVTAQFPGACGLRYRNPVSQ
4612	NP_031401.1	173	SQRHMIDGRWCDCKLPNSKQS
4613	NP_031401.1	175	RHMIDGRWCDCKLPNSKQSQD
4614	NP_031401.1	198	LSRKFVVGRCCTEDMTEDEL
4615	NP_031401.1	244	FADDQIAQSLCGEDLIKGIS
4616	NP_036192.2	300	NRLLMHHIRDCLPELKTRINV
4617	NP_036192.2	345	QLITKFATEYCNTEGTAKYI
4618	NP_036192.2	361	TAKYIETSELGGARICYIFH
4619	NP_036192.2	367	TSELGGARICYIFHETFGRT
4620	NP_036192.2	431	IKRLEEPSLRCVELVHEEMQR
4621	NP_036192.2	446	HEEMQRI IQHCSNYSTQELLR
4622	NP_036192.2	470	LHDAIVEVVTCLLRKRLPVTN
4623	NP_036192.2	644	RKLSAREQRDCEVIERLIKSY
4624	NP_036218.1	172	RGEREAEILMCEIIRQAPLA
4625	NP_036218.1	239	EQDNIKQAI FICYTKALKYEPT
4626	NP_036218.1	378	EENKAPENVTCTIPDGVPI DI
4627	NP_036218.1	395	PIDITVKLMVCLVHLNILEPL
4628	NP_036218.1	449	SALPLLSALVCSERYNLAVVW
4629	NP_036218.1	465	LAVVWLRHAELKALGYMERA
4630	NP_036218.1	574	LKVAMNRAQVCLISSKSGER
4631	NP_036218.1	637	NLLLKAIYSLCDLSRFQEAEL
4632	NP_036218.1	722	HSQDVRHHRFCLRLMLKNPEN
4633	NP_036218.1	736	MLKNPENHALCVLNHNAFVS
4634	NP_036218.1	772	THPDEPLYSFCIGLTF IHMAS
4635	NP_036218.1	810	LNRYLSLRGPCQESFYNLGRG
4636	NP_036220.1	33	AQLVAQRAACCLAGARARFAL

4637	NP_036220.1	78	ASLARWTLGFCDERLVPFDHA
4638	NP_036220.1	156	ILGVGPDGHTCSLFPDHPDLLQ
4639	NP_036222.3	14	SDEETLSERSCRSERSCRSER
4640	NP_036222.3	37	RSERSGSLSPCPPGDTLPWNL
4641	NP_036222.3	216	KVTAGYTGIKCTNFSSCWSDG
4642	NP_036222.3	222	TGIKCTNFSSCWSDGKMFNAL
4643	NP_036222.3	443	ANKIQNGALNCEEKLTAKNT
4644	NP_036222.3	469	AHLESGQPVQCESDVIMYIQE
4645	NP_036222.3	480	ESDVIMYIQECEGLIRQLQVD
4646	NP_036222.3	523	QDELVTLRLECTNLYRKGHFT
4647	NP_036222.3	666	ETLGKLETQYCKLKETSFRM
4648	NP_036222.3	775	QSQLQWMKQLCLCQE QHVKEN
4649	NP_036222.3	777	QLQWMKQLCLCQE QHVKENTA
4650	NP_036222.3	815	LQDSIKRKYSCDHNTSLSRLE
4651	NP_036222.3	877	LKNTISVKAVCDYRQIEITIC
4652	NP_036222.3	887	CDYRQIEITICKNDECVLEDN
4653	NP_036222.3	892	IEITICKNDECVLEDNSQRTK
4654	NP_036222.3	919	TGNEAMVPSVCFLIPPNKDA
4655	NP_036222.3	986	EKLRSSAPGECHQIMKNLQAH
4656	NP_036222.3	1025	RLRLEEEVEACKARFQHLMK
4657	NP_036222.3	1115	RSDLDVSMKCDSFHQSPSS
4658	NP_036222.3	1283	IQEVLDYRACHGTLIKWIEE
4659	NP_036222.3	1336	IERNQTKLDQCQKFSQYSTI
4660	NP_036222.3	1552	QKTLQKQNTCHQQLEDLCSW
4661	NP_036222.3	1560	NTCHQQLEDLCSWVQAERAL
4662	NP_036222.3	1742	NQAPEKLDKQCEMMKARHQEL
4663	NP_036222.3	1920	TERYTALHSKCTRLGSHLNML
4664	NP_036222.3	1951	ADSLQAWMQACEANVEKLLSD
4665	NP_036222.3	2139	AEVSRFEQLCLQQEKESL
4666	NP_036222.3	2221	LEHLVTELSSCGFALDLCQH
4667	NP_036222.3	2228	LSSCGFALDLCQHQRVQNL
4668	NP_036222.3	2258	VKEREKDASSCQEQLDEFRKL
4669	NP_036222.3	2362	SVGSVNGYHTCKDLTEIQCDM
4670	NP_036222.3	2370	HTCKDLTEIQCDMSDVNLKYE
4671	NP_036222.3	2514	QLEESASHLACFQAESQLRP
4672	NP_036222.3	2685	DHEVKEAQTLCDELSVLIGE
4673	NP_036222.3	2758	DDKQSQAQKNCPI SAKLERLQ
4674	NP_036222.3	2839	TADRQSRLKDCMQAKQYQWH
4675	NP_036222.3	2860	VEDLVPWIEDCKAKMSELV
4676	NP_036222.3	2982	EIFDALGSQACSNKNLEKLRA
4677	NP_036222.3	3049	LEVQRVNSGCVMMENKLEGI
4678	NP_036222.3	3064	NKLEGIGQFHCVRVEMFSQLA
4679	NP_036222.3	3121	KLDIEASEAECRHMLEEGL
4680	NP_036222.3	3242	QGLIQSAGKDCDVQGLEHME
4681	NP_036222.3	3279	IAQLQEALLHCGKFQDALEPL
4682	NP_036222.3	3483	QARYSEIQDRCCRKAALLDQA
4683	NP_036222.3	3784	FSHRSEIFGTCGEEQKTVLQE
4684	NP_036222.3	3972	IPAEVDKIRECISDNKSATVE
4685	NP_036222.3	4117	RILGADLIFACGETEKPEVRK
4686	NP_036222.3	4179	DWLDNTVIKLCMPVGTDLN
4687	NP_036222.3	4354	LRSRLEAMNQCWESVLQKTEE
4688	NP_036222.3	4688	GEVRDKWDTVCGKSVERQHKL
4689	NP_036222.3	4882	VAMGEVILAVCHPDCITTIKH
4690	NP_036222.3	4886	EVILAVCHPDCITTIKHWITI
4691	NP_036222.3	5175	EDEVTRQVAQCKCAKRFQVEQ
4692	NP_036222.3	5177	EVTRQVAQCKCAKRFQVEQIG
4693	NP_036222.3	5230	LDEFVLKNDPCRARGRTNIEL
4694	NP_036222.3	5386	DFDLLETQSACSDTSESSAAG
4695	NP_036226.1	7	XXXXMGLAGVCALRRSAGYIL
4696	NP_036226.1	33	QSAAAAARRCSEGEWASGGV
4697	NP_036226.1	125	LKAKGVQVVACLSVNDAFVTG
4698	NP_036226.1	204	NVEPDGTGLTCSLAPNII SQL
4699	NP_036232.2	48	SPSPFHAVAECRNRLQAGFS
4700	NP_036232.2	109	SLIGAHTDSPCLRVRKRSRRS
4701	NP_036232.2	235	RHHSVLMSSLCAHLGLSPKDI
4702	NP_036232.2	251	SPKDIVEMELCLADTQPAVLG
4703	NP_036232.2	279	FAPRLDNLHSCFCALQALIDS
4704	NP_036232.2	281	PRLDNLHSCFCALQALIDSCA
4705	NP_036232.2	423	QDLMVRNDTPCGTTIGPILAS
4706	NP_036232.2	457	LAMHSIREMACTTGVLQTLTL
4707	NP_036243.1	56	AVQVQNEEGKCEVTEVSKLDG
4708	NP_036243.1	207	ARPVGVKIPTCKITLKETFLT
4709	NP_036256.2	10	XMALLCYNRGCGRFDPETNS
4710	NP_036256.2	24	FDPETNSDDACTYHPGVVVFH
4711	NP_036256.2	42	VFHDALKGWSCCKRRTTDFSD
4712	NP_036256.2	43	FHDALKGWSCCKRRTTDFSDF

4713	NP_036256.2	59	DFSDFLSIVGCTKGRHNSKPK
4714	NP_036256.2	157	DNDEIKIGTSCKNGGCSKTYQ
4715	NP_036256.2	162	KIGTSCKNGGCSKTYQGLESL
4716	NP_036256.2	176	YQGLESLLEEVCVYHSGVPIFH
4717	NP_036256.2	230	KKDAGKKVVP CRHDWHQTGGE
4718	NP_036336.2	93	ARSI AVLLELICDVHNPQDQLV
4719	NP_036336.2	129	KVGSKTEVAECKEKFAASKDP
4720	NP_036336.2	174	FKYTSWSPMGCDANGRCLLAA
4721	NP_036336.2	180	SPMGCDANGRCLLAAAL TMDNR
4722	NP_036336.2	257	TPVRMEWSGICTTQQVKHNE
4723	NP_036336.2	268	TTQQVKHNECRDVGSVLLAV
4724	NP_036336.2	303	PFVGKESISSCNTIESGITSP
4725	NP_036336.2	376	MDQLPVHSIKCVPLYHPYQKC
4726	NP_036336.2	386	CVPLYHPYQKCSCSLVVAARG
4727	NP_036336.2	388	PLYHPYQKCSCSLVVAARGSY
4728	NP_036336.2	402	VAARGSYVFWCLLLISKAGLN
4729	NP_036336.2	441	ADKQNGTVYTCSSDGKVRQLI
4730	NP_036336.2	485	VRTHGIAVSPCGAYLAIITTE
4731	NP_036336.2	713	ENTSIPTRGLCNFLMSDEEYD
4732	NP_036336.2	747	KMNKQTFPEHC SLCKEILPFT
4733	NP_036336.2	750	KQTFPEHC SLCKEILPFTDRK
4734	NP_036336.2	764	LPFTDRKQAVCSNGHIWLRFC
4735	NP_036336.2	773	VCSNGHIWLR CFLTYQSCQSL
4736	NP_036336.2	780	WLR CFLTYQSCQSLIYRRCLL
4737	NP_036336.2	788	QSCQSLIYRRCLLHDSIARHP
4738	NP_036336.2	814	DWIKRLLQSPCFCDSPVFXFX
4739	NP_036336.2	817	KRLLQSPCFCDSPVFXFXFX
4740	NP_036347.1	62	GAAGGARRFLCGVVEGFYGRP
4741	NP_036347.1	166	RKLDQVSQFGCRSFALLFDDI
4742	NP_036347.1	181	LLFDDIDHNMCAADKEVFSSF
4743	NP_036347.1	215	YLGEPETFFLFCPT EYCGTFCY
4744	NP_036347.1	220	ETFFLFCPT EYCGTFCYPNVSQ
4745	NP_036347.1	224	FCPT EYCGTFCYPNVQSPYL
4746	NP_036347.1	316	RLKGVLTNP NCFEANYVAIH
4747	NP_036347.1	520	KSP EMSMQEDCISDIAPMQTD
4748	NP_036347.1	596	RANSSVSVNCKGKDKSEKIEE
4749	NP_036347.1	618	RSRAAKFEEMCGLVMGMFTRL
4750	NP_036347.1	631	VMGMFTRL SNCANRTILYDMY
4751	NP_036347.1	663	MVKSFVQWLGCRSHSSAQFLI
4752	NP_036347.1	732	PKDEASVYKICREMYDDGVGL
4753	NP_036347.1	767	GGLLSLSLDYCFVLEDEDGIC
4754	NP_036347.1	777	CFVLEDEDGICGYALGTVDVT
4755	NP_036347.1	793	TVDVTPFIKKCKISWIPMQE
4756	NP_036347.1	863	DPSVAKSMMA CLLSLKANGS
4757	NP_036347.1	878	LKANGSRGAFCEVRPDDKRIL
4758	NP_036360.3	45	GLGEAGSLATCELPLAKSEWQ
4759	NP_036360.3	90	LNNKEAGMYHCVC CDSPLFSS
4760	NP_036360.3	92	NKEAGMYHCVC CDSPLFSSSEK
4761	NP_036360.3	93	KEAGMYHCVC CDSPLFSSSEK
4762	NP_036360.3	105	SPLFSSSEKKYCSGTGWPSFSE
4763	NP_036360.3	146	SLGSARTEVVCKQCEAHLGHV
4764	NP_036360.3	149	SARTEVVCKQCEAHLGHVFPD
4765	NP_036370.2	67	EREVPAAARGCPGAAAAALWR
4766	NP_036370.2	160	DEIITNGFHSCESDEEDRASH
4767	NP_036370.2	253	IEDAVKLLQECKKIIVLTGAG
4768	NP_036370.2	268	VLTGAGVSVSCGIPDFRSRDG
4769	NP_036370.2	326	IYPGQFQPSLCHKFIALSDKE
4770	NP_036370.2	362	QVAGIQR IIQCHGSFATASCL
4771	NP_036370.2	371	QCHGSFATASCLICKYKVDCE
4772	NP_036370.2	374	GSFATASCLICKYKVDCEAVR
4773	NP_036370.2	380	SCLICKYKVDCEAVRGDIFNQ
4774	NP_036370.2	395	GDIFNQV VPRCP RCPADEPLA
4775	NP_036370.2	398	FNQV VPRCP RCPADEPLAIMK
4776	NP_036370.2	482	LHFDVELLGD CDVI INELCHR
4777	NP_036370.2	490	GD CDVI INELCHR LGG EYAKL
4778	NP_036370.2	501	HRLGGEYAKLCCNPVKLSEIT
4779	NP_036370.2	623	RTSVAGTVRKC WPNRVAKEQI
4780	NP_036370.2	671	SEDDVLS SSSCGS NSDSGTCQ
4781	NP_036370.2	680	SCGS NSDSGTCQSPSLEEPME
4782	NP_036412.1	49	FQGVTRAVDLCAAPG SWSQVL
4783	NP_036412.1	108	AKEIIQHFKGCPADLVVCDGA
4784	NP_036412.1	115	FKGCPADLVVCDGAPDVTGLH
4785	NP_036412.1	152	IATHVLKPGGCFVAKIFRGRD
4786	NP_036412.1	179	QLQVFFSSVLC AKPRSSRNSS
4787	NP_036412.1	196	RNSSIEAFAVCQGYD PPEGFI
4788	NP_036412.1	238	PTRII VPFVTCGLDSSYSDR

4789	NP_036412.1	312	TFPQPLAAPQCHTL LAPEMED
4790	NP_036442.3	16	KGIPVRVALRCRPLVPKEISE
4791	NP_036442.3	28	PLVPKEISEGQMCLSFVPGE
4792	NP_036442.3	190	TVLVALDVTVSCLEQGNNSRTV
4793	NP_036442.3	269	EGININRGLLCLGNVISALGD
4794	NP_036442.3	443	KLEELRQHAACKLDLQKLVET
4795	NP_036442.3	467	QELKENVEI ICNLQQLITQLS
4796	NP_036442.3	483	ITQLSDETVACMAA AIDTAVE
4797	NP_036442.3	865	ENIATILEAKCAL KYLIGELV
4798	NP_036442.3	895	ESSLKQSKTSCADMQKMLFEE
4799	NP_036442.3	1047	QSMDI EDLKYCSEHSVNEHED
4800	NP_036442.3	1086	VKVS RKNIQGC SCKGWC GNKQ
4801	NP_036442.3	1088	VSRKNIQGC SCKGWC GNKQCG
4802	NP_036442.3	1092	NIQGC SCKGWC GNKQCGCRKQ
4803	NP_036442.3	1097	SCKGWC GNKQCGCRKQKSDCG
4804	NP_036442.3	1099	KGWC GNKQCGCRKQKSDCGVD
4805	NP_036442.3	1106	QCGCRKQKSDCGV DCCDPTK
4806	NP_036442.3	1110	RKQKSDCGV DCCDPTKCRNR
4807	NP_036442.3	1111	KQKSDCGV DCCDPTKCRNRQ
4808	NP_036442.3	1112	QKSDCGV DCCDPTKCRNRQQ
4809	NP_036442.3	1117	GVDCCDPTKCRNRQQGKDSL
4810	NP_036442.3	1159	TPGLSFFNPVCATPNSKILKE
4811	NP_036442.3	1224	LASNTSFFSGCSP IEEEEHXX
4812	NP_036463.1	9	XXMLSATTRACQLLL LHSLFP
4813	NP_036463.1	109	YTSNPTYKEVCSEKTGHAEVV
4814	NP_036463.1	220	QYLSKNPNGYCGLGGTGVSCP
4815	NP_036463.1	229	YCGLGGTGVSCPVG I K K X X X X
4816	NP_036525.1	41	PELQGVETELCYNVNWTAEAL
4817	NP_036525.1	66	ETK KLMWLF G C P L L L D D V A R E
4818	NP_036525.1	108	TPTSTNIVSVCRATGLGPVDR
4819	NP_036525.1	318	AETHNFPTGVCPFSGATTGTG
4820	NP_036525.1	336	GTGGRIRDVQCTGRGAHV VAG
4821	NP_036525.1	502	EQKMNRVIRACVEAPKGNP IC
4822	NP_036525.1	512	CVEAPKGNP IC SLHDQ GAGGN
4823	NP_036525.1	584	FLTHVSARERCPACFVGTITG
4824	NP_036525.1	587	HVSARERCPACFVGTITGDRR
4825	NP_036525.1	697	SVGGLVAQQQCVGPLQ TPLAD
4826	NP_036525.1	764	ALVTDLRDVKCSGNW M W A A K L
4827	NP_036525.1	785	PGEAALADACEAMVAVMAAL
4828	NP_036525.1	831	GSLVI SAYAVCPDITATVTPD
4829	NP_036525.1	871	HRLGGTALAQCFSQLGEHPPD
4830	NP_036525.1	905	TQGLLKDRLLCSGHDVSDGGL
4831	NP_036525.1	918	HDVSDGGLVTCLEMAFAGNC
4832	NP_036525.1	928	CLEMAFAGNCGLQVDVPVPR
4833	NP_036525.1	975	LKRYRDAGLHCLELGH TGEAG
4834	NP_036525.1	1027	QLDRLQAEPRCVAEEERGLRE
4835	NP_036525.1	1044	GLRERMGPSYCLPPTFPKASV
4836	NP_036525.1	1099	EVWDVTMQDLCSGAI GLDTFR
4837	NP_036525.1	1158	KRPDTFSLGVCNGCQLLALLG
4838	NP_036525.1	1161	DTFSLGVCNGCQLLALLGWVG
4839	NP_036525.1	1285	NGSPGGVAGICSCDGRHLAVM
4840	NP_036525.1	1287	SPGGVAGICSCDGRHLAVMPH
4841	NP_036552.1	18	TLKAILLELECHFTWNLKED
4842	NP_036552.1	124	QKYTGKIGNVCKLSSPSNYK
4843	NP_036552.1	137	LSSPSNYKLECPETDCEKGWA
4844	NP_036552.1	142	NYKLECPETDCEKGWALLKFG
4845	NP_036552.1	292	SSFLHHQMGLCYRAQMIQIKK
4846	NP_036552.1	429	ALKK LSTKRLCHNALDVQSLS
4847	NP_036565.2	652	PSLLPFLKAVCKSKKSWQARH
4848	NP_036565.2	677	IVQQIAILMGCAILPHLRSLV
4849	NP_036565.2	795	KKIVLKVVKQCCGTDGVEANY
4850	NP_036565.2	796	KIVLKVVKQCCGTDGVEANYI
4851	NP_036565.2	933	KRVKPYLPQICGTVLWRLNNK
4852	NP_036565.2	965	ISRTAVVMKTCQE E K L M G H L G
4853	NP_036565.2	1035	KNRHEKVQENCIDL VGR IADR
4854	NP_036565.2	1111	LKVQERQNRVCTTVAIA IVAE
4855	NP_036565.2	1123	TVAIAI VAETCSPFTVLPALM
4856	NP_036565.2	1204	HMSLGVYGFGCEDSLNHL LNY
4857	NP_036565.2	1244	LEGLRVAIGPCRMLQYCLQGL
4858	NP_036565.2	1250	AIGPCRMLQYCLQGLFHPARK
4859	NP_036602.1	60	LLQIRQDVESCYFAAQTMKMK
4860	NP_036602.1	187	SSTVV SLLMTCVEKAGTDEKM
4861	NP_036602.1	204	DEKMLMKVFRCLGSWFNLGVL
4862	NP_036602.1	248	SSNLHEAASDCVCSALYAIEN
4863	NP_036602.1	250	NLHEAASDCVCSALYAIENVE
4864	NP_036602.1	296	REDLDKVLNYCRIFTELCETF

4865	NP_036602.1	303	LNyCRIFTELcETfLEKIVCT
4866	NP_036602.1	312	LCETfLEKIVCTPGQGLGDLR
4867	NP_036602.1	330	DLRTLELLLIcAGHPQYEVVE
4868	NP_036602.1	380	QRLlHALARHCQLEPDHEGVP
4869	NP_036602.1	419	DLIFLIgSMecFAQlySTLKE
4870	NP_036602.1	527	SAAAKAIhNIcSVCRDHMAQH
4871	NP_036602.1	530	AKAIhNIcSVCRDHMAQHfNG
4872	NP_036602.1	580	ARLPLDKITeCLsELcSVQVM
4873	NP_036602.1	585	DKITeCLsELcSVQVMAlKkL
4874	NP_036602.1	634	PIVENgQThPCQkVIQEIWPV
4875	NP_036602.1	662	HRADNRIVERccRclRFaVRC
4876	NP_036602.1	663	RADNRIVERccRclRFaVRCV
4877	NP_036602.1	665	DNRIVERccRclRFaVRCVgK
4878	NP_036602.1	672	ccRclRFaVRCVgKGSaALLQ
4879	NP_036602.1	699	VNVYHVHQhScFLyLGSILVD
4880	NP_036602.1	717	LVDEYgMEEGCRQGLLDMLQA
4881	NP_036602.1	729	QGLLDMLQALCIPTfQLLEQQ
4882	NP_036602.1	793	STTLdHRdANcSVMRfLRDLI
4883	NP_036602.1	841	QQLVsqLLHTCCfCLPPyTLp
4884	NP_036602.1	842	QLVsqLLHTCCfCLPPyTLpD
4885	NP_036602.1	869	EIMQVDRPTfCRWLEnSLKGL
4886	NP_036602.1	908	FHKQVtSAeEcQVCwAlRDF
4887	NP_036602.1	912	VtSAeEcQVCwAlRDFtRlF
4888	NP_036611.2	97	EKIeKELEAVcQDVLSLLDNY
4889	NP_037365.2	59	PAAQAVGwPIcRDAYELQeVI
4890	NP_037365.2	82	GATAVvQAALcKPRQeRVAIK
4891	NP_037365.2	99	VAIKRINLEKcQTSMDellKE
4892	NP_037365.2	116	LLKEIQAMsQCShPNVvTYT
4893	NP_037365.2	237	KVRKtFVGtPCwMAPEVMEQV
4894	NP_037365.2	334	KRPTAAeLLKcKfFQkAKNRE
4895	NP_037365.2	525	KTLtFKLAsGcDgSEIpDEVK
4896	NP_037366.1	85	TNLPHtDfTLcKcMIDQAhQe
4897	NP_037366.1	87	LPHTDfTLcKcMIDQAhQeER
4898	NP_037366.1	112	ILyLGDlLEtChfQAFwQALD
4899	NP_037366.1	143	GfEDsvRkFICHVVGITyQHl
4900	NP_037368.1	65	KKSShAVELAcRDPsQVENLA
4901	NP_037368.1	87	SLQLITeCFRcLRNACIEcSV
4902	NP_037368.1	92	TECFRcLRNACIEcSVNqNSI
4903	NP_037368.1	95	fRcLRNACIEcSVNqNSIRNL
4904	NP_037368.1	134	EQESLLtAFRCGLQfLGNIAS
4905	NP_037368.1	165	VhAFPELFLsCLNHDPDKIVA
4906	NP_037368.1	283	ELIAsTFVdQcKtVlKLAsEE
4907	NP_037368.1	356	ETtNIFsNcGcVRAEGDISNV
4908	NP_037368.1	382	SHLIRLIGNLcYKNkDNQDKV
4909	NP_037377.1	60	DKAKESIRAKcVQYLDRaEKL
4910	NP_037377.1	233	IIFIDeVDSLcGSRNENESEA
4911	NP_037377.1	377	SMMIDDLlTPcSPGDpGAMeM
4912	NP_037377.1	403	PgDKLLEPvVcMSDMLRSLAT
4913	NP_037417.1	257	WkHLIFVlNKCDLVPtWATKR
4914	NP_037417.1	362	TLMRRIFLIDcPGVvYpSEdS
4915	NP_037417.1	516	IKeETEENSHCDANtEMQqIL
4916	NP_037453.1	192	VQNKLkESAQcVgDEfLNcKL
4917	NP_037453.1	331	LDLLQsYKDLcERHEKGVlHK
4918	NP_037453.1	396	MElRNYfSLyCLHQEtQLIHV
4919	NP_037453.1	442	VWNDLRPKLSCLfAGPHStLT
4920	NP_037453.1	455	AGPHStLTpPCSPpEDGLcPH
4921	NP_037458.3	11	MGEeDYLElCERpVQfEKAN
4922	NP_037458.3	69	fRMDDKGEVcKICkfSLENkIL
4923	NP_037458.3	91	VQRtSKtVDFcNFIPDNsQLE
4924	NP_037458.3	106	DNSQLeytQeCKtKNANILGF
4925	NP_037458.3	117	KTKNANILGfCWtSStEIVfI
4926	NP_037458.3	160	HNLNVNWMyCPESAVILLSt
4927	NP_037458.3	252	VLYHLpREGAcKkMHILkLNR
4928	NP_037458.3	333	AAVtSQSPVpCKLYSSSWIVf
4929	NP_037458.3	386	LMDfLLQRKECKMvILSVcSQ
4930	NP_037458.3	394	KECKMvILSVcSQMLSESDRA
4931	NP_037458.3	535	HVLSDSKPLAcLLLSLEsFYP
4932	NP_037458.3	635	GSPNfTPGEHcEEHVAfFKQI
4933	NP_037506.2	40	PSGGEEQAQYcRAAEELSKLR
4934	NP_054733.2	133	ALGDQPRDILcGADEVLAVL
4935	NP_054733.2	238	DMEGDEAVVRcTLsANLVASG
4936	NP_054733.2	302	ILKtAsDDREcENQLVLLLGf
4937	NP_054733.2	331	LRQHRMMILyCTLLsAQsEA
4938	NP_054733.2	428	QGSHFMANkRCQLPDGsfRRQ
4939	NP_054733.2	516	GAGKtNVALMcMLREIGKHIN
4940	NP_054733.2	576	VAELtGDHQLcKKEeISATQII

4941	NP_054733.2	588	EEISATQIIIVCTPEKWDIITR
4942	NP_054733.2	742	GKTARAIIRDMCLEKDTLGLFL
4943	NP_054733.2	769	TEVLRTEAEQCKNLELKDLLP
4944	NP_054733.2	1115	AQLTDKTLNLCCKMIDKRMWQS
4945	NP_054733.2	1127	MIDKRMWQSMCPLRQFRKLPE
4946	NP_054733.2	1278	IRVSDRWLSCETQLPVSFRH
4947	NP_054733.2	1359	GAPTGSCKTICAEFALLRMLL
4948	NP_054733.2	1376	RMLLOSSEGRVCVYITPMEALA
4949	NP_054733.2	1471	GENGPVLEVICSRMRYSQI
4950	NP_054733.2	1506	NAKDVAHWLGCSTSTFNHFP
4951	NP_054733.2	1592	ADIQRQRFHLHCTEKDLIPYLE
4952	NP_054733.2	1651	IQVVVASRSLCWGMNVAAHLV
4953	NP_054733.2	1702	NRPLQDDEGRVCVIMCQGSKKD
4954	NP_054733.2	1706	QDDEGRVCVIMCQGSKKDFFK
4955	NP_054733.2	1731	PLPVESHLDHCMHDFNAEIV
4956	NP_054733.2	1801	QTLSDLEQSKCISIEDEMDVA
4957	NP_054733.2	1926	LSKAIRLIQACVDVLSNGWL
4958	NP_054733.2	1974	PHFTSEHIKRCTDKGVESVFD
4959	NP_054733.2	2011	DSQIADVARFCNRYPNIELSY
4960	NP_054733.2	2116	LYFMSDAYMGCDQYKFSVDV
4961	NP_054828.2	158	DNGDVEVRRSCRIRSRYSQVN
4962	NP_054828.2	345	LSSAGPRSPYCKRMNRRRHA
4963	NP_054828.2	387	KRSRNRAINRCLPLNFRKDEL
4964	NP_054828.2	463	EKFKIQQPRGCLFYGPGTGK
4965	NP_054828.2	484	TLVARALANECSQGDKRVAFF
4966	NP_054828.2	501	VAFFMRKGADCLSKWVGESER
4967	NP_054828.2	631	DTFLEELAENCVGYCGADIKS
4968	NP_054828.2	635	EELAENCVGYCGADIKSICAE
4969	NP_054828.2	649	IKSICAEAAALCALRRRYQIY
4970	NP_054828.2	741	TNKTLDSDISCPLES DLAYS
4971	NP_054828.2	785	FNFLHLNRNACYPMSFRPRI
4972	NP_054828.2	842	GVSTTSPEETCAQVIREAKRT
4973	NP_054828.2	1057	KDYLRDIDLICSNALYNPDR
4974	NP_054828.2	1079	PGDRLIRHRACALRDTAYAI
4975	NP_054828.2	1101	EELDEDFEQLCEEIQESRKKR
4976	NP_054828.2	1113	EIQESRKKRGCSSSKYAPSY
4977	NP_054828.2	1156	KLKTPSTPVACSTPAQLRKI
4978	NP_054828.2	1246	KLLELRNNSNTCNIELEDSR
4979	NP_054828.2	1270	ACTELRDKIACNGDASSQII
4980	NP_054828.2	1292	ISDENEGKEMCVLRMTRARRS
4981	NP_054828.2	1362	LENLYAVISQCIYRHRKDHDK
4982	NP_054862.1	40	VEYGSNMTIECKFPVEKQLDL
4983	NP_054862.1	114	VKLQDAGVYRCMISYGGADYK
4984	NP_054862.1	155	DPVTSEHELTCQAEGYPKAEV
4985	NP_054862.1	209	INTTTNEIFYCTFRRLDPEEN
4986	NP_054862.1	250	HLVILGAILLCLGVALTFIFR
4987	NP_055040.2	88	TLVGGPEYVHCLLPPLSLAT
4988	NP_055040.2	148	GDWFTSRTSACGLFSVCYPRV
4989	NP_055040.2	154	RTSACGLFSVCYPRVSSAVKA
4990	NP_055040.2	174	AELRQYFRNLCSDDTPMVRRA
4991	NP_055040.2	228	DSVRLLAVEACVNIAQLLPQE
4992	NP_055040.2	310	AAASHKVKEFCENLSADCREN
4993	NP_055040.2	317	KEFCENLSADCRENVIMSQIL
4994	NP_055040.2	329	ENVIMSQILPCIKELVSDANQ
4995	NP_055040.2	377	PLFLAQLKDECPEVRLNII SN
4996	NP_055040.2	447	EFFDEKLNSLCMAWLVDHVYA
4997	NP_055040.2	504	NYLHRMTTLFCINVLSSEVCGQ
4998	NP_055040.2	512	LFCINVLSSEVCGQDITTKHML
4999	NP_055045.2	87	HGDFQRYRGYCSRRQRRLRKT
5000	NP_055045.2	173	VKHAEELERLCESNRVDAKTK
5001	NP_055045.2	214	WKAALAEAFNKCKTIYEKLASA
5002	NP_055045.2	247	VEEISPNIRYCAYNIGDQSAI
5003	NP_055045.2	344	ERLFESMLSECRDAIQVFREE
5004	NP_055045.2	466	LKTLVFKAYRCFFIAQSYVLV
5005	NP_055045.2	586	HFPPGFQPIPCPKPLFFDLALN
5006	NP_055093.2	417	KTSFEDGSGECEVFCKNHPAP
5007	NP_055093.2	421	EDSGECEVFCKNHPAPFSKV
5008	NP_055093.2	540	QVDQEEGHQKCHAEHTPEEEI
5009	NP_055093.2	740	DPTMEKVEKCIDAMS WLNS
5010	NP_055099.1	22	LGKASIMASDCEPALNQAEGR
5011	NP_055099.1	113	LRALGVALLACFCSDPELA AH
5012	NP_055099.1	115	ALGVALLACFCSDPELA AHPQ
5013	NP_055099.1	158	RRSMIDDTYQCLTAVAGTPRG
5014	NP_055099.1	182	LIAGGTVSALCQAYLGHYGF
5015	NP_055099.1	241	KAEDASKFELCQLLPLFLPPT
5016	NP_055099.1	257	FLPPTTVPPECYRDLQAGLAR

5017	NP_055099.1	292	LKLAARLAHACGSDWIPAGSS
5018	NP_055099.1	315	KFLALLVNLACVEVRLALEET
5019	NP_055099.1	337	TEVKEDVVTACYALMELGIQE
5020	NP_055099.1	348	YALMELGIQECTRCEQSLIKE
5021	NP_055099.1	351	MELGIQECTRCEQSLIKEPQK
5022	NP_055099.1	469	DALRLLLPGWCHLTVEDGPRE
5023	NP_055099.1	491	LIKEGAPSLCKYFLQWELT
5024	NP_055099.1	521	PDSVEIGLQTCCHIFLNLVVT
5025	NP_055099.1	522	DSVEIGLQTCCHIFLNLVVT
5026	NP_055099.1	541	TAPGLIKRDACFTSLMNTLMT
5027	NP_055099.1	647	WFLGMQAFTGCVPLLPWLAPA
5028	NP_055099.1	701	LVELARANRLCREAMRLQAGE
5029	NP_055099.1	725	SHYRMAALEQCLSEPXXXXXX
5030	NP_055134.2	108	LSYLRTPGGLCRISASGPESL
5031	NP_055134.2	482	YLSMFLLTAACLFFLILGLTY
5032	NP_055134.2	547	RLAQLAGDHECGSSSQRTLSV
5033	NP_055134.2	593	LENGKDVGIRCVGFGPEEELT
5034	NP_055134.2	622	QSTRPLMSFWCRFRRAFVTVT
5035	NP_055134.2	639	VTVTHRLLLLCLGVVMVCVVL
5036	NP_055134.2	646	LLCLGVVMVCVVLRYMKYRW
5037	NP_055134.2	684	IDVLRSHNEACQENKDLQPYM
5038	NP_055134.2	754	VWRWIQPSASCDKILVIPSKV
5039	NP_055134.2	785	RNSPPNSLTPCLKIRNMFDPV
5040	NP_055134.2	814	LAIQEAILLEKCSNDNGIVHIA
5041	NP_055134.2	833	IAVDKNSREGCVYVKCLSPEY
5042	NP_055134.2	838	NSREGCVYVKCLSPEYAGKAF
5043	NP_055144.3	54	LNGLLVPDPLCSGDSTSANKT
5044	NP_055144.3	81	PINLQEKQVICLSGDDSSSTCI
5045	NP_055144.3	90	ICLSGDDSSSTCIGILAKEVEI
5046	NP_055144.3	238	PLNHFRRIIWCPIPEESED
5047	NP_055144.3	248	CPFIPEESEDCCSEESPTVAL
5048	NP_055144.3	249	PFPIPEESEDCCSEESPTVALL
5049	NP_055144.3	299	GFIVVKGHSTCLSEGALSPDG
5050	NP_055144.3	336	IYIEGQDEPRCLHEWKPHDGR
5051	NP_055144.3	350	WKPHDGRPLSCLLFCDNHKKQ
5052	NP_055144.3	354	DGRPLSCLLFCDNHKKQDPDV
5053	NP_055144.3	384	ADQNRELKMWCTVSWTCLQTI
5054	NP_055144.3	390	LKMWCTVSWTCLQTIREFSPDI
5055	NP_055144.3	413	SVSVPPSLKVCLDLSAEYLIL
5056	NP_055144.3	446	LLQNQEEGHACFSSISEFLLT
5057	NP_055144.3	470	LSFGIQVVSRCRLRHTEVLPA
5058	NP_055144.3	510	SAAGVLIKLFVHTKALQDVQ
5059	NP_055144.3	1054	RDEIKKTVPPCVSRSLPEMAG
5060	NP_055144.3	1130	SVVLPFAFEKSCQAMFQQINDS
5061	NP_055144.3	1261	GTPVPSAHLDCQAQQAHILQL
5062	NP_055144.3	1297	AADLNLVLYVCETVDPAQVFG
5063	NP_055144.3	1311	DPAQVFGQPPCPLSQPVLLSL
5064	NP_055192.1	26	THALTSASTLCQVEPVGRWFE
5065	NP_055192.1	140	IKEGDNDYFTCITKAYEMLSD
5066	NP_055192.1	240	LDEEKEKAECRDERRWIEKQ
5067	NP_055192.1	276	IRTLVDNAYSCDPRIKKFKEE
5068	NP_055192.1	360	KKERQKLRNSCKTWNHFSNE
5069	NP_055192.1	384	VKMMEVEKLCDRLELASLQC
5070	NP_055192.1	402	LQCLNETLTSCTKEVGKAALE
5071	NP_055192.1	592	EAVPGRTKKDCMKRYKELVEM
5072	NP_055205.2	31	RGIIKMVLSGCAIIVRGQPRG
5073	NP_055205.2	96	LRKKLIGKEVCFIENKTPQG
5074	NP_055205.2	152	NNPEQNRLSECEEQAKAAKKG
5075	NP_055205.2	228	LVTVMLSGIKCPTFRREADGS
5076	NP_055205.2	268	QRDVQIILESCHNQNILGTIL
5077	NP_055205.2	296	ELLLKEGFARCVDWSIAVYTR
5078	NP_055205.2	549	RLKLYLPKETCLITFLLAGIE
5079	NP_055205.2	736	GSYAPRRGEFCIAKFVDGEWY
5080	NP_055205.2	826	SVVRDIQNTQCLLNVEHLSAG
5081	NP_055205.2	837	LLNVEHLSAGCPHVTLQFADS
5082	NP_055230.2	39	VKRKIRKAAACYVVRGGTLYY
5083	NP_055230.2	116	LKQVKDYIKQCSKCQEKLDRS
5084	NP_055230.2	197	GVVKRSSPKHCQAVLKQLNEQ
5085	NP_055230.2	283	AYTSVLSFDFCSMADVAILAR
5086	NP_055230.2	304	HLFMSEVLEICESVHKLMEEK
5087	NP_055230.2	401	EAESALSSVGCIAADSHPEMES
5088	NP_055230.2	466	MGNDISAEDICAEDIKPKHRQK
5089	NP_055230.2	574	TEEASHKCGECGMVFQRRYAL
5090	NP_055230.2	599	LKHERARDYKCPCKKQFQYS
5091	NP_055230.2	602	ERARDYKCPCKKQFQYSASL
5092	NP_055230.2	653	EKGRTKREFICSI CGRTL PKL

5093	NP_055230.2	681	LKHTGVKPHACQVCGKTFIYK
5094	NP_055230.2	740	TGESKYLCSVCGKSFHRGSGL
5095	NP_055230.2	768	QPKPEVRGYHCTQCEKSFFEA
5096	NP_055230.2	771	PEVRGYHCTQCEKSFFEARDL
5097	NP_055230.2	799	LGVKPFQCQFCDKCYSWKKDW
5098	NP_055230.2	802	KPFQCQFCDKCYSWKKDWYSH
5099	NP_055230.2	824	KSHSVTEPYRCNICGKEFYEK
5100	NP_055230.2	827	SVTEPYRCNICGKEFYEKALF
5101	NP_055230.2	863	KQNLERVCEKCGRKFQTLREY
5102	NP_055230.2	888	NNHEGVKPFECTCGVAWADA
5103	NP_055230.2	891	EGVKPFECTCGVAWADARSL
5104	NP_055230.2	943	MTKFHRDYVPCKIMLEKDTLQ
5105	NP_055318.2	75	GKFYKEVIDKQSFNQLVYHQ
5106	NP_055318.2	232	EGVGQLLFEMCKGVRNMFHSC
5107	NP_055318.2	242	CKGVRNMFHSCGTQAVKLILR
5108	NP_055318.2	295	SKEHFGTFFECLQESLDDLHT
5109	NP_055318.2	312	DLHTKVTKNCCESSEQIKRL
5110	NP_055318.2	345	GTKIPTPADVCKVLSQTLQVA
5111	NP_055318.2	361	TLQVASTSTSCWETLLDVIS
5112	NP_055318.2	430	LPSFLSYIVNCFLLIDAVVKD
5113	NP_055318.2	565	SFGKGNLFLVLCQAVNTLLSLE
5114	NP_055318.2	616	TDLYYQRLALCGCKGPLSQEA
5115	NP_055318.2	618	LYYQRLALCGCKGPLSQEALM
5116	NP_055318.2	811	YHEQLALKTDCQERLDHTNFR
5117	NP_055318.2	959	DQMVQKITLDCIMTYKHPHVL
5118	NP_055318.2	1072	EPVRHFKNGECHSAVIQAVED
5119	NP_055318.2	1125	YLPKILQILLCMTATVSHILD
5120	NP_055318.2	1279	ETVLNLLVTGCVYPGIAENIG
5121	NP_055318.2	1384	LVTVQNLLKHCVDPTSLFKPI
5122	NP_055318.2	1411	IKNKLSRKLCTVFEFLSDFE
5123	NP_055318.2	1478	VNYLIPVMHNCFYNLELGDMS
5124	NP_055318.2	1496	DMSLSDNASMCLMSI IKKLAA
5125	NP_055318.2	1547	IQQDYTTILSCLIQTFPNQLE
5126	NP_055318.2	1644	TAATEIIGAICKHLSWSAYMY
5127	NP_055318.2	1730	RVDEEEKKEYTCKSLSDNGQPG
5128	NP_055318.2	1757	SGGTSAKESECITKPVSLPQ
5129	NP_055318.2	1851	ANLPSILLKVCALLKNRAQEI
5130	NP_055318.2	1924	NKLQVGDLDSCLDIMIEIFNH
5131	NP_055318.2	2058	APDPRLPQSCLLLPPTVVRG
5132	NP_055318.2	2106	KTSKIKSSGECVLEMLDPFVS
5133	NP_055318.2	2121	LDPFVSLIDCLGSMVKVIT
5134	NP_055318.2	2136	DVKVITGALQCLIWVLRFLP
5135	NP_055318.2	2183	RGQNFHLVVNCFKCVTILVKK
5136	NP_055318.2	2186	NFHLVVNCFKCVTILVKKVKS
5137	NP_055318.2	2264	SAQSEPARVQCRQVFLKYILD
5138	NP_055318.2	2323	TFPQGLLHENGCMFFIPLCLM
5139	NP_055318.2	2331	ENCGMFFIPLCLMTINDSAT
5140	NP_055318.2	2342	LMTINDSATCKKMASMTIKS
5141	NP_055318.2	2388	RLNRQLAALICGLFVESEGVD
5142	NP_055318.2	2449	LTLITKLIKECNI IQFTKPAE
5143	NP_055318.2	2494	AQIFGLLFASCQPEELIQKWN
5144	NP_055318.2	2537	QKMSISLASCHQLHSKFLDQ
5145	NP_055318.2	2646	YSPRNPLKRTCIFKFLGAVAM
5146	NP_055422.1	65	AIKIDTKSEACLFQFSQIYPVV
5147	NP_055422.1	76	LQFSQIYPVVCVPSFFIGDS
5148	NP_055422.1	144	PSASFEPNNTCENSQSRNAEL
5149	NP_055422.1	155	ENSQSRNAELCEIPPTSDTKS
5150	NP_055427.2	14	QGFQDYIEKHCPSAVVPVELQ
5151	NP_055427.2	53	PLRLLVDADNCLHRLYGGFYT
5152	NP_055427.2	85	LGYLAAALAKACFGGNIELFVF
5153	NP_055427.2	143	PPKVWFLPPVCMACIRLALI
5154	NP_055427.2	147	WFLPPVCMACIRLALIRFHV
5155	NP_055427.2	174	EDHHQEVIGFCRENGFHGLVA
5156	NP_055427.2	192	LVAYDSYALCNIPYFSAHA
5157	NP_055427.2	279	VRAHQVLVLPCCDVVIAVADY
5158	NP_055427.2	531	SQMGTVQPIPCLLSMPTRNHM
5159	NP_055427.2	669	VEALAFREWTCPNLKRLLWLGK
5160	NP_055427.2	694	KNRRMRAFLACMRSDTPAMLN
5161	NP_055427.2	716	ANVPTHLMVLCVLRVMVQWP
5162	NP_055427.2	717	NVPTHLMVLCVLRVMVQWPG
5163	NP_055427.2	787	VDMALFANDACGQPIPWEHCC
5164	NP_055427.2	796	ACGQPIPWEHCCPWWYFDGKL
5165	NP_055427.2	797	CGQPIPWEHCCPWWYFDGKLF
5166	NP_055427.2	825	SREKTPLEIDLCDGQADQAAKV
5167	NP_055427.2	892	QGRGRGFAGVCGFGGPYGETV
5168	NP_055427.2	919	AFRVAASGHCGAFSGSDSSR

5169	NP_055464.1	89	EATSKKSAKRCVKGLKMEEEG
5170	NP_055464.1	160	DGTDGLLDSFCDSKEYVAAQL
5171	NP_055464.1	308	EQPGDGERTDCEPVGLEPAVE
5172	NP_055464.1	449	VTNARSPGARCYGFTVMTSD
5173	NP_055464.1	464	TMSTSDEATKICISHLHRTLH
5174	NP_055464.1	498	AGKKLSDRKECEVKKEKLSSV
5175	NP_055484.3	209	GHLQPNLVDLCASVAELDDKS
5176	NP_055484.3	325	GHPVWALIYYCMRCGDLLAAS
5177	NP_055484.3	328	VWALIYYCMRCGDLLAASQVV
5178	NP_055484.3	392	NTDPYKRAVYCIIGRCDVTDN
5179	NP_055484.3	397	KRAVYCIIGRCDVTDNQSEVA
5180	NP_055484.3	487	AFLFRMERLRCHAVHVALVLF
5181	NP_055484.3	522	LLSHEPGDPPCLRRLNFVRL
5182	NP_055484.3	569	DSQGENMFLRCVSELVIESRE
5183	NP_055567.2	88	FGLIDGRLTICTISCFFAIVA
5184	NP_055567.2	92	DGRLTICTISCFFAIVALIWD
5185	NP_055567.2	117	FPESKPVLALCVISYFVMMGI
5186	NP_055568.3	101	PKVKGSTLIQCLIRNFTRQKL
5187	NP_055568.3	133	GKKRRLTIIIECGCDINMMIDL
5188	NP_055568.3	135	KRRLTIIIECGCDINMMIDLAK
5189	NP_055568.3	171	EMETFEFLNICQVHGFPKIMG
5190	NP_055568.3	276	NPEDIRTNIKCDRKSLSLYYL
5191	NP_055568.3	317	VSDISFLPDPICALPEQKKRC
5192	NP_055568.3	327	CALPEQKKRCLNEKEKLVYA
5193	NP_055568.3	530	EADESSEEDCTAGEKGISGS
5194	NP_055568.3	582	AALPTFDSGHCTAEVFASED
5195	NP_055568.3	725	LFRVNQPDRECKHKADSLDCS
5196	NP_055568.3	734	ECKHKADSLDCSRFLVEAPHD
5197	NP_055568.3	757	LEEVMSNIRDCTVTKWEDDK
5198	NP_055568.3	895	YVRIEIEENVPCFVQNFDPHY
5199	NP_055568.3	978	LLKYTPQHMHCGAAFVGPITP
5200	NP_055571.2	16	EWLKLVPDQKCEHKLWKARLS
5201	NP_055571.2	144	DNKNPKIIVACIETLRKALSE
5202	NP_055571.2	343	NVMLVALAAKCLTGLAVGLRK
5203	NP_055571.2	427	SLFIARSFRHCTASTLPKSL
5204	NP_055571.2	441	TLPKSLKPFCAALLKHINDS
5205	NP_055571.2	493	DKLKLDKIKECSEKVELIHGK
5206	NP_055571.2	592	IVEPELSIEVCEEKASAVLPP
5207	NP_055571.2	604	EKASAVLPPTCIQLLDSSNWK
5208	NP_055571.2	619	DSSNWKERLACMEEFQKAVEL
5209	NP_055571.2	637	VELMDRTEMPCQALVRLAKK
5210	NP_055571.2	695	GLVDKIGDVKCGNNAKEAMTA
5211	NP_055571.2	1019	LRSTPTDLILCVPHLYSCL
5212	NP_055571.2	1203	IEQLKTQMSSCVAKWLQDEM
5213	NP_055571.2	1241	LESEKEGVIGCLDLILKWLTL
5214	NP_055571.2	1317	KDVRAILNRMCLVYPASKMFP
5215	NP_055571.2	1350	QRAECLEELGCLVESYGMNVC
5216	NP_055571.2	1360	CLVESYGMNVCQPTPGKALKE
5217	NP_055571.2	1500	EIENDNGTVRCPELQVHKL
5218	NP_055571.2	1691	KVFPKEKLLKQCKSEFPRTLK
5219	NP_055571.2	1708	RTLKTLHLTLCKLKGPKILDH
5220	NP_055571.2	1735	KNESELEAHLCRMKHSMDQT
5221	NP_055571.2	1851	TGISPQMEVTCVPTPTSTVSS
5222	NP_055571.2	1886	LERLILRQRCGLDNTKQDDR
5223	NP_055592.2	35	LAHFAWISHQCFLPNKEQVLL
5224	NP_055592.2	120	FSLSGSQRNICAVLRCCQGIL
5225	NP_055592.2	125	SQRNICAVLRCCQILSTPAL
5226	NP_055592.2	126	QRNICAVLRCCQILSTPALA
5227	NP_055592.2	154	ELMVALLSQLCWSACRQPEGA
5228	NP_055592.2	158	ALLSQLCWSACRQPEGAVVAQ
5229	NP_055592.2	205	GDVTAHLLQPCLVLRHLLSGG
5230	NP_055592.2	291	VLNRLVDAGYCAASLHTSVVA
5231	NP_055592.2	324	SYFKEGNQLLQVLPRLFGC
5232	NP_055592.2	334	CFQVLPRLFGCLKISHLQEEQ
5233	NP_055592.2	411	AQAPIPAWFRCLKTLISLNLH
5234	NP_055592.2	478	RLFEEVLGVICRPAEALRQP
5235	NP_055592.2	501	ASGPSTVLSACLELPPSQIL
5236	NP_055592.2	548	KSLSLSLLLHCIMFNMRSLDS
5237	NP_055592.2	570	TPLPIVRRVTQCMERMREL
5238	NP_055592.2	624	AQVDAMFSLNCSQYHSMGSL
5239	NP_055592.2	673	TAQFSSLGTYCLEQLYLQKMK
5240	NP_055592.2	755	SNLTIILISYLCRDDVGYLASV
5241	NP_055592.2	814	MQSLHSAFLTCVTTSCSSILC
5242	NP_055592.2	819	SAFLTCVTTSCSSILCSGAQR
5243	NP_055592.2	824	CVTTSCSSILCSGAQRDGLV
5244	NP_055592.2	931	LLSMAVTKLGCSCSSSLALKF

5245	NP_055592.2	933	SMAVTKLGCSCSSSLALKFLT
5246	NP_055592.2	1102	VLQTGAVLQLCSVPGARGWRL
5247	NP_055592.2	1132	TLLEADLGQHCRDGGADISQG
5248	NP_055592.2	1249	TTEDLRLVMQCILQGLDVSNM
5249	NP_055592.2	1280	AVTLRLRLNCPNLSGEEKASLL
5250	NP_055592.2	1294	GEKASLLWRACQIIVTALTL
5251	NP_055592.2	1380	LHNVLFSILQCHPKVMLKAIP
5252	NP_055592.2	1424	SIDDLPTVLKCARLVERMYSH
5253	NP_055592.2	1481	QEGIYLILDLCIEPDVQFLRA
5254	NP_055640.2	78	VEGYIKISVECEVEIFQLLSGE
5255	NP_055640.2	136	KLMNNHMKLICESLYASGYRL
5256	NP_055640.2	226	QVLEVKEFIPCFSSGKEDR
5257	NP_055640.2	315	ELVHNFLMDLCCSLKHGINFY
5258	NP_055640.2	316	LVHNFLMDLCCSLKHGINFYD
5259	NP_055640.2	367	ADLVVNILKVCPELLNKYFKE
5260	NP_055640.2	435	MVMVTTVPLVCNKSMFTQALN
5261	NP_055640.2	473	LKRALKTVDHCLNKEVWQESG
5262	NP_055640.2	541	QKRSDGPPAACDAHQDDAET
5263	NP_055640.2	546	GPPAACDAHQDDAETILLKA
5264	NP_055640.2	563	LLKAVLLQVICLYQKVVPVHV
5265	NP_055640.2	844	LQAYDKLEPPCLVPCCQQLSR
5266	NP_055640.2	848	DKLEPPCLVPCCQQLSRFNRY
5267	NP_055640.2	968	LDLLRRLVVHCEQLDAQNQQR
5268	NP_055640.2	1163	LGKTLVQLLTCSPQDQLQSGE
5269	NP_055640.2	1222	PAVGADLLDYCLARRTQAALS
5270	NP_055640.2	1242	SIAALLLQESCTHLLWFQWC
5271	NP_055640.2	1252	CTHLLWFQWCQAGPGLGLQ
5272	NP_055640.2	1278	FLPLIHVYLQCRTRSHFTRPA
5273	NP_055640.2	1376	AALEGSAEELCAWRRTLLESC
5274	NP_055640.2	1386	CAWRRTLLESCVKWLVVFSFG
5275	NP_055640.2	1517	VDLMLTVVEMCPSVCESSHFA
5276	NP_055640.2	1521	LTVVEMCPSVCESSHFAVLLG
5277	NP_055640.2	1577	GPAAVEHHKTCRSLGRSLWQQ
5278	NP_055640.2	1641	RVDDLGLYDPCFLLQLFSELT
5279	NP_055640.2	1659	ELTRPEFVVDCKRFLDSNALG
5280	NP_055640.2	1801	VLRQGIKQCYELCARRGIF
5281	NP_055640.2	1805	GIRDKQCYELCARRGIFHIL
5282	NP_055640.2	1823	IILSFHSPCLCDEAAQNWILE
5283	NP_055640.2	2055	PELMASTLETCKGLLRILT
5284	NP_055640.2	2157	SSIFRLYSRLCGAEGLAGPVQ
5285	NP_055640.2	2171	GLAGPVQEVACLNTVMLQLV
5286	NP_055640.2	2243	DTLLTHVRMVCEAADDAPSSE
5287	NP_055640.2	2261	SSEEEAIVVLCCKDAASAASDA
5288	NP_055680.3	121	NAHLNALKMNCYALIRLLESF
5289	NP_055680.3	201	EEFVSLVTGCCYRLLNPTI
5290	NP_055680.3	202	EEFVSLVTGCCYRLLNPTIN
5291	NP_055680.3	320	RVPAILMSSMCILLDHLGDN
5292	NP_055680.3	421	GRLADKSVLVCKNAIQLLASF
5293	NP_055680.3	439	ASFLANNPFSCKLSDADLAGP
5294	NP_055680.3	596	TGNMVTGQTVCKNKPNMSDPE
5295	NP_055680.3	734	LVDASVGTIQCLEEILCEFVQ
5296	NP_055680.3	740	GTIQCLEEILCEFVQKDELKP
5297	NP_055680.3	766	LWERATEKVACPLERCSSVM
5298	NP_055680.3	767	WERATEKVACPLERCSSVML
5299	NP_055680.3	772	EKVACPLERCSSVMLLGMMA
5300	NP_055680.3	816	PQDYRLAQVCHAIANISDRR
5301	NP_055680.3	886	YQLAEGPEVICAQILQCAKQ
5302	NP_055680.3	893	EVICAQILQCAKQALEKLEE
5303	NP_055680.3	950	HLEQAVSGELCRRRVLREEQE
5304	NP_055680.3	1000	DTEAELIRGICEMELLDGKQT
5305	NP_055680.3	1022	AAFVPLLLKVCNNPGLYSNPD
5306	NP_055680.3	1045	AAASLALGKFCMISATFCDSQ
5307	NP_055680.3	1052	GKFCMISATFCDSQLRLLFTM
5308	NP_055680.3	1211	KQTESLVEKLCQFRFRTER
5309	NP_055680.3	1229	TERQQRDLAYCVSQLPLTERG
5310	NP_055680.3	1249	GLRKMLDNFDCFGDKLSDESI
5311	NP_055680.3	1292	IDFEQKLRACHTRGLDGIKE
5312	NP_055699.2	107	ISDDSYFRKECGRDLEFSHSD
5313	NP_055699.2	183	FGSSRLIEKECLEKESRDYDV
5314	NP_055699.2	362	QTLFELETETCAKMLASFKCS
5315	NP_055699.2	371	TCAKMLASFKCSLKPEHRDFC
5316	NP_055699.2	381	CSLKPEHRDFCFFTIKFLKHS
5317	NP_055699.2	447	LKSVTPLLMACNAYELSVKMK
5318	NP_055699.2	476	ALALETTNSLCRKSALLGQT
5319	NP_055699.2	540	HLKAWLVSSGCPLQVKKAEPE
5320	NP_055699.2	656	GADQKPTSADCAVRAMLYSRA

5321	NP_055699.2	737	LPDRNDAAKDCPPDPVGPSPQ
5322	NP_055699.2	775	ISEAPQTSSPCPSADIDMKTM
5323	NP_055699.2	838	KFYRKKVFELCPSICFTSSPH
5324	NP_055699.2	842	KKVFELCPSICFTSSPHNLHT
5325	NP_055699.2	947	PALSQASSGTCFPRKRISKS
5326	NP_055699.2	970	VGMIAPAPKRVCLIQEPKVEHP
5327	NP_055746.3	37	LLDEEDVLQECKVVRKLLDF
5328	NP_055746.3	82	RLRYKYPVACEILTSVDPQI
5329	NP_055746.3	172	IMDLLRLRLTCVERPQLRQDV
5330	NP_055746.3	216	NQHSNASQSLCDIIRLSREQM
5331	NP_055746.3	406	NNFLHAQVEGCVSTMLSLGPP
5332	NP_055746.3	437	NPVVKHLLQQCRLVERILTSW
5333	NP_055746.3	612	ENPNANLLEICYKDRIQQFDD
5334	NP_055746.3	689	EEEEDEEGIGCAARGATPLS
5335	NP_055768.3	31	REHYLRDDIGCGAPGCAACGG
5336	NP_055768.3	36	RDDIGCGAPGCAACGGAHEGP
5337	NP_055768.3	39	IGCGAPGCAACGGAHEGPAL
5338	NP_055768.3	60	PQPQDPASSVCPQPHYLLPDT
5339	NP_055768.3	194	AIEEGIPAFTECEEYVKSILTAN
5340	NP_055768.3	357	GIIKRNWRPYCGMLSKEIKE
5341	NP_055768.3	474	MKNREDLRHLICICSVDPGCT
5342	NP_055768.3	476	NREDLRHLICICSVDPGCTDI
5343	NP_055768.3	483	LCICSVDPGCTDIDDALHCR
5344	NP_055768.3	492	GCTDIDDALHCRELENGNLEV
5345	NP_055768.3	533	SARRGTTVYLCEKRIDMVPEL
5346	NP_055768.3	549	MVPELLSSNLCSLKCDVDRLA
5347	NP_055768.3	553	LLSSNLCSLKCDVDRLAFSCI
5348	NP_055768.3	562	KCDVDRLAFSCIWEMNHNAEI
5349	NP_055768.3	747	NTLLRILATRCMMQAVYFCSG
5350	NP_055768.3	755	TRCMMQAVYFCSGMDNDFHYY
5351	NP_055768.3	814	LTDKHKLADICKNLNFRHKMA
5352	NP_055792.1	546	LALAKGITTEECLKQPSLEQKE
5353	NP_055792.1	733	LQPERGSPKKCEAEEAEPAA
5354	NP_055844.2	178	HQKKEHSKNKCHKARRCHMNR
5355	NP_055844.2	184	SKNKCHKARRCHMNRLEFN
5356	NP_055844.2	221	RFHMVKKWGYCLGERPTVKSH
5357	NP_055844.2	234	ERPTVKSHRACYRAMTNRCLL
5358	NP_055844.2	242	RACYRAMTNRCLLQDLSEYCC
5359	NP_055844.2	251	RCLLQDLSEYCCLELKGKEE
5360	NP_055844.2	252	CLLQDLSEYCCLELKGKEE
5361	NP_055844.2	270	EEILKALSGMCNIDTGLTFAA
5362	NP_055844.2	283	DTGLTFAAVHCLSGKRQGLV
5363	NP_055844.2	347	QDILEEIKAAQCQVEPIKSAV
5364	NP_055844.2	349	ILEEIKAAQCQVEPIKSAVCI
5365	NP_055844.2	408	KIIGDGTDRDPLPYSWISPTT
5366	NP_055844.2	471	ETPHRWWIETCKKPDSVSLHC
5367	NP_055844.2	548	QLLLEGVPVECTHSFIWNQDI
5368	NP_055844.2	559	THSFIWNQDICKSVTENKISD
5369	NP_055844.2	666	SPNVPDGFDPDCPAGMLFAEEQ
5370	NP_055844.2	705	YVKLGTLPAPFCCPWEQLTQDW
5371	NP_055844.2	706	VKLGTLPAPFCCPWEQLTQDWE
5372	NP_055844.2	745	ESDLRRSEVPCAPMPKTHQP
5373	NP_055844.2	804	NHVAATGSHLCVLRSRKLLKQ
5374	NP_055844.2	819	RKLLKQLSAWCGPSSDSRGG
5375	NP_055844.2	845	RGQQGLTREACLISILGHFPRA
5376	NP_055844.2	876	KGSPEPHTMICVPAKEDFLQL
5377	NP_055844.2	893	FLQLHEDWHYCGPQESKHS
5378	NP_055844.2	959	SGPLPRVTLHCSRTLLGFVTQ
5379	NP_055844.2	978	TQGDFSMAVGCGEALGFVSLT
5380	NP_055870.2	94	NFDKIEFNRCWTL CVKKNLT
5381	NP_055870.2	98	IEFNRCWTL CVKKNLT KKNPL
5382	NP_055870.2	261	KGDILLDENCCVESLPDKDGK
5383	NP_055870.2	273	ESLPDKDGKCLFLVKCFDKT
5384	NP_055870.2	279	DGKKCLFLVKCFDKTFEISAS
5385	NP_055899.2	101	YLYKFRHSPNCWYLRNWTIHT
5386	NP_055899.2	116	NWTIHTWIRQCLKYDAQDKAL
5387	NP_055899.2	189	QLLSLYVLFHCLAKKTFDSWE
5388	NP_055899.2	276	VAASPEDIKLCREALDVLGAV
5389	NP_055899.2	367	TQLVKEKLSCEAEDIATYEQ
5390	NP_055929.1	91	REEIVKAGLKCGPITSTRFI
5391	NP_055929.1	176	PEEEAVTSKTCVSPSDTDY
5392	NP_055929.1	203	SKEPLYYGVCVYEDVPARN
5393	NP_055929.1	254	EDA EK FARGICDYFPSPSKTS
5394	NP_055929.1	350	GDNPTIVQEGCRYNVMHVAAK
5395	NP_055929.1	367	VAAKENQASICQLTLDVLENP
5396	NP_055929.1	420	MGYDTPLHFACKFGNADVNV

5397	NP_055929.1	454	KYDKTPEDVICERSKNKSVEL
5398	NP_055929.1	586	PWVEYWEFLGCFVDLSSQEGL
5399	NP_055929.1	623	QQETGEREASCRDKATTSGSN
5400	NP_055929.1	674	PTVGAFGHTRCSAFPLEQEAD
5401	NP_055929.1	702	GGPHSSRNLCHPLNHSRTLA
5402	NP_055929.1	844	LDQDVLAALECADVDPHQFPA
5403	NP_055929.1	864	AVHRWKSAVLCYSPSDRQSWP
5404	NP_055970.1	236	GEKVRPNQNRCCIVILREISES
5405	NP_055970.1	267	KGDNLPKFINCEFAYNDNWF I
5406	NP_055970.1	590	VSREPSVPASCAVSATYERSP
5407	NP_055970.1	654	ELRKPSYAEICQRTSKPEPPSS
5408	NP_055970.1	679	QKEQKPNTVCGKKEKKLAEP
5409	NP_055994.2	31	GHSSDSNPAICRHRQAARSRF
5410	NP_055994.2	102	SGTFLLSGLSDCTNVTF SKVQR
5411	NP_055994.2	125	ESNSAAHKEICAVLAAVTEVI
5412	NP_055994.2	216	STSVLRWVLSCLATLLRKQDL
5413	NP_055994.2	261	KIRKAAQHGVCSVLKGSEFMF
5414	NP_055994.2	317	MLTLLKDLLPCFPEGLVKSCS
5415	NP_055994.2	326	PCFPEGLVKSCSETLLRVMTL
5416	NP_055994.2	344	MTLSHVLTACAMQAFHSLFH
5417	NP_055994.2	423	LPRFFGTAVTCLLSPHSQVLT
5418	NP_055994.2	446	TQSLKEILKECVAPHMADIGS
5419	NP_055994.2	495	AAWSSVLQLLCVFFEACGRQA
5420	NP_055994.2	501	LQLLCVFFEACGRQAHVPMRK
5421	NP_055994.2	512	GRQAHVPMRKCLQSLCDLRLS
5422	NP_055994.2	517	PVMRKCLQSLCDLRLSPHFPH
5423	NP_055994.2	630	WQMWTLPLPGFCTRPTDVAISF
5424	NP_055994.2	673	QALRTLITKGCQAEADRAEVS
5425	NP_055994.2	763	VLDLVVALAPCADEAAISKLY
5426	NP_055994.2	799	KKAYRVLEEVCASPQGPALF
5427	NP_055994.2	865	ITALIPEVILCTKEVSVGARK
5428	NP_055994.2	901	FGSNQEEALQCYLVLIYPGLV
5429	NP_056016.1	367	GRFIQERFERCLDLYLCPRQR
5430	NP_056016.1	373	RFERCLDLYLCPRQRKMRVNV
5431	NP_056016.1	404	RPRDLQFPPTCQALVYRGHSD
5432	NP_056016.1	447	LRLWEVATARCVRTVVPVGGVV
5433	NP_056016.1	469	SVAWNPSPAVCLVAAVEDSV
5434	NP_056016.1	532	ERQVGLRLRICHGKPVTVQVTW
5435	NP_056016.1	620	QELTKKLMFNCKWVSSLAVHP
5436	NP_056016.1	637	AVHPAGDNVICGSYDCKLVWF
5437	NP_056016.1	690	SGSDDGSVIVCHGMVYNDLLQ
5438	NP_056044.3	7	XXXXMLLNGDCPESLKKEAAA
5439	NP_056044.3	88	MDREDTCHRTCFSLHLDGNVL
5440	NP_056044.3	153	DPSDAFNGVDCNSLSFLSVFT
5441	NP_056044.3	200	ILPGSRERPLCPLQPQNRDWK
5442	NP_056044.3	214	PQNRDWKPLQCLKVLTMMSGWN
5443	NP_056044.3	333	TAPQAEHAMDCVRAEDAYTSR
5444	NP_056044.3	546	LNDRDEEVELCSSVECKGIIG
5445	NP_056044.3	551	EVEELCSSVECKGIIGNDGRH
5446	NP_056044.3	588	PVPGEELPEECARAGFPRAHR
5447	NP_056044.3	602	GFPRHRHKLCCLRQELVDAF
5448	NP_056044.3	603	FPRAHRHKLCCLRQELVDAFV
5449	NP_056044.3	702	PRSREVI RNACKAVGSISSTA
5450	NP_056044.3	732	FSPGVRFPESCQDEVRDQKQL
5451	NP_056044.3	762	SCQIPGLVKDCMEHAVLPVDG
5452	NP_056044.3	847	LSAAISHFLNCFLLSSYPNPVA
5453	NP_056044.3	899	MTPQELWKNICQEAKNYFDFD
5454	NP_056044.3	912	AKNYFDFDLECE TVDQAVETY
5455	NP_056044.3	1020	NVYGAMHVETCACLRLLARLH
5456	NP_056044.3	1022	YGAMHVETCACLRLLARLHYI
5457	NP_056044.3	1072	IQEYMH LALYCFASSQLSTAL
5458	NP_056070.1	19	VQAIDRSLL ECSAEIAGKWL
5459	NP_056070.1	51	HLAHYVPKIYCRGPNPFPQKE
5460	NP_056070.1	78	VLLGPM EWYLCGEDPAFGFPK
5461	NP_056070.1	112	VFKVGEPTYSCRDCAVDPTCV
5462	NP_056070.1	115	VGEPTYSCRDCAVDPTCVLCM
5463	NP_056070.1	121	SCRDCAVDPTCVLCMECF LGS
5464	NP_056070.1	124	DCAVDPTCVLCMECF LGS IHR
5465	NP_056070.1	127	VDPTCVLCMECF LGS IHRDHR
5466	NP_056070.1	149	RMTTSGGGGFCDCGDEAWKE
5467	NP_056070.1	151	TTSGGGGFCDCGDEAWKEGP
5468	NP_056070.1	163	DTEAWKEGPPYCCQKHELN TSEI
5469	NP_056070.1	229	EMVEKSDTYCMLFNDEVHTY
5470	NP_056070.1	252	VIYTLQKAVNCTQKEAIGFAT
5471	NP_056070.1	280	RSVRYGDFQYCEQAKSVIVRN
5472	NP_056070.1	336	GYSDGLRRILCQVGLQEGPDG

5473	NP_056070.1	513	GFDAFLELLKCMQGMDFITRQ
5474	NP_056070.1	555	THVISMMQDWCASDEKVLIEA
5475	NP_056070.1	569	EKVLIEAYKKCLAVLMQCHGG
5476	NP_056070.1	576	YKKCLAVLMQCHGGYTDGEQP
5477	NP_056070.1	592	DGEQPITLSICGHSVETIRYC
5478	NP_056070.1	602	CGHSVETIRYCVSQEKVSIDL
5479	NP_056070.1	655	PPMLIEHPLRCLVLCQAQVHAG
5480	NP_056070.1	659	IEHPLRCLVLCQAQVHAGMWR
5481	NP_056070.1	686	NQIYYHNVKCRREMFDKDVV
5482	NP_056070.1	837	GRGMYELKPECAKEFNLYFYH
5483	NP_056070.1	882	ALPPPVLPPFCPLFASLVNLL
5484	NP_056070.1	899	VNLLQSDVMLCIMGTLQWAV
5485	NP_056070.1	1108	QVPEQRQFVTCILCQEEQEVK
5486	NP_056070.1	1161	DPLFMHPDLSCGHTSSCGHI
5487	NP_056070.1	1168	DLSCGHTSSCGHIMHAHCWQ
5488	NP_056070.1	1176	SSCGHIMHAHCWQRYFDSVQA
5489	NP_056070.1	1210	SYDVENGEFLCPLCECLSNV
5490	NP_056070.1	1213	VENGEFLCPLCECLSNVPL
5491	NP_056070.1	1215	NGEFLCPLCECLSNVPLLL
5492	NP_056070.1	1332	NEEDPRVPMCWGSCAYTIQS
5493	NP_056070.1	1336	PRVPMCWGSCAYTIQSIERI
5494	NP_056070.1	1365	FGPLPCRLDDCLRSLTRFAAA
5495	NP_056070.1	1407	VPNDSHEELPCILDIDMFHLL
5496	NP_056070.1	1461	AHI IQILLTSCTEENGMDQEN
5497	NP_056070.1	1518	VRAGIMPFLKCSALFFHYLNG
5498	NP_056070.1	1547	VPGTSHFEHLCSYLSLPPNLI
5499	NP_056070.1	1558	SYLSLPPNLLICLFQENSEIMN
5500	NP_056070.1	1575	EIMNSLIESWCRNSEVKRYLE
5501	NP_056070.1	1619	SLINQASNFSCPCKSGGDKSRA
5502	NP_056070.1	1633	GGDKSRAPTLCLVCGSLLCSQ
5503	NP_056070.1	1636	KSRAPTLCLVCGSLLCSQSYC
5504	NP_056070.1	1641	TLCLVCGSLLCSQSYCCQTEL
5505	NP_056070.1	1646	CGSLLCSQSYCCQTELEGEDV
5506	NP_056070.1	1647	GSLLCSQSYCCQTELEGEDVG
5507	NP_056070.1	1659	TELEGEDVGACTAHTYSCGSG
5508	NP_056070.1	1666	VGACTAHTYSCGSGVGLFLRV
5509	NP_056070.1	1679	GVGIFLRVRECQVLFVLAGTK
5510	NP_056070.1	1691	VLFLAGKTKGCFYSPPYLDDY
5511	NP_056070.1	1717	GLRRGNPLHLCKERFKKIQKL
5512	NP_056091.1	23	DAELAVAPPGCSHLGSPKVDN
5513	NP_056091.1	44	WKQNLRAIYQCFVWSGTAEAR
5514	NP_056091.1	61	AEARKRKAKSCICHVCGVHLN
5515	NP_056091.1	63	ARKRKAKSCICHVCGVHLNRL
5516	NP_056091.1	66	RKAKSCICHVCGVHLNRLHSC
5517	NP_056091.1	76	CGVHLNRLHSLCYCVFFGCFT
5518	NP_056091.1	79	HLNRLHSLCYCVFFGCFTKKH
5519	NP_056091.1	84	HSCLYCVFFGCFTKKHIHEHA
5520	NP_056091.1	112	AIDLMYGGIYCFQCQDYIYDK
5521	NP_056091.1	115	LMYGGIYCFQCQDYIYDKDME
5522	NP_056091.1	189	INLGNTCFMNCIVQALHTHTPL
5523	NP_056091.1	211	RDFFLSDRHRCEMQSPSSCLV
5524	NP_056091.1	219	HRCMQSPSSCLVCEMSSLFQ
5525	NP_056091.1	222	EMQSPSSCLVCEMSSLFQEFY
5526	NP_056091.1	278	IAALDVLHRHCKGDDNGKKN
5527	NP_056091.1	293	NGKKANPNHCNCIIDQIFTG
5528	NP_056091.1	295	KKANPNHCNCIIDQIFTGGL
5529	NP_056091.1	311	FTGGLQSDVTCQVCHGVSTTI
5530	NP_056091.1	314	GLQSDVTCQVCHGVSTTIDPF
5531	NP_056091.1	383	EHLGSSAKIKCSGCHSYQEST
5532	NP_056091.1	386	GSSAKIKCSGCHSYQESTKQL
5533	NP_056091.1	406	LTMKKLPVACFHLKRFHSA
5534	NP_056130.2	28	LDFQEAPIPCPGRLPGRKNS
5535	NP_056130.2	425	SQTDFSQLLNCPEFVPRQHYQ
5536	NP_056130.2	820	QHVVYHKYRRRCLNERKRLGIG
5537	NP_056130.2	876	AKEGYRYGLECLFRYYSYGLE
5538	NP_056271.2	23	GEDLKETLTNCTEPLKAIEQF
5539	NP_056271.2	115	KMPSLQPVVCMVMKHLPKVPE
5540	NP_056271.2	235	LFLRTRNVHYCTLRAELLSL
5541	NP_056271.2	254	SLHDLVGEICTVDPCHKFTW
5542	NP_056271.2	259	DVGEICTVDPCHKFTWCLDAC
5543	NP_056271.2	265	TVDPCHKFTWCLDACIRERFV
5544	NP_056271.2	269	CHKFTWCLDACIRERFVDSKR
5545	NP_056271.2	306	QVLGDLMSILCDPFAINTLAL
5546	NP_056271.2	422	TKFLQEQRMACEVGLYVVLHI
5547	NP_056271.2	482	LADEFALEDFCSSLFDGFFLT
5548	NP_056280.2	16	RTLPPSPNWCARCSDAVPGG

5549	NP_056280.2	19	PPSPNWCARCSDAVPGGLFG
5550	NP_056280.2	82	FSHHPGQYNLCATSSDDGTVK
5551	NP_056280.2	136	VSGDEKGVVFCYWFNRNDSQH
5552	NP_056280.2	156	HLFIEPRTIFCLTCSPHHEDL
5553	NP_056280.2	159	IEPRTIFCLTCSPHHEDLVAI
5554	NP_056280.2	204	HDDEIHSIAWCPLPGEDCLSI
5555	NP_056280.2	211	IAWCPLPGEDCLSIHQEETSE
5556	NP_056280.2	256	SKDQTRIRIWSCSRGRGVMILK
5557	NP_056280.2	303	SNQPTQLVSSCFGGELLQWDL
5558	NP_056280.2	341	QNHSRIVFNLCPLQTEDDKQL
5559	NP_056280.2	363	LSTSMDRDVKCWDIATLECSW
5560	NP_056280.2	371	VKCWDIATLECSWTLPSLGGF
5561	NP_056280.2	433	QGVKSKVTALCWHPTKEGCLA
5562	NP_056280.2	441	ALCWHPTKEGCLAFGTDDGKV
5563	NP_056280.2	501	GDRPSLALYSCGEGEIVLQHN
5564	NP_056280.2	572	IFQIPNLKLICTIQHKKLVN
5565	NP_056280.2	676	VWDALREEPLCNFRGHRGRL
5566	NP_056280.2	697	CVAWSPLDPDCIYSGADDFCV
5567	NP_056280.2	706	DCIYSGADDFCVHKWLTSMQD
5568	NP_056280.2	867	HRSKEELHQDCLVLATAKHSR
5569	NP_056280.2	973	WAVEAFKQLCFQDQYVKAAS
5570	NP_056280.2	1045	RDGHYAVAAKCYLGATCAYDA
5571	NP_056280.2	1051	VAACCYLGATCAYDAKVLAK
5572	NP_056280.2	1122	ESLQGQRLVFCLELLSRHLE
5573	NP_056280.2	1205	TPAKQLLLHICHDLTLAVLSQ
5574	NP_056280.2	1255	EVYSAPFLPDGCDHLRDKLGDH
5575	NP_056280.2	1296	YEFWWSLSRPCPNSSVWVRAG
5576	NP_056280.2	1394	MIRQHQSOLCKSTANGPDKN
5577	NP_056280.2	1415	EPEVEAEQPLCSSQSQCKEEK
5578	NP_056280.2	1421	EQPLCSSQSQCKEEKNEPLSL
5579	NP_056280.2	1463	KAWPFPDVLECCLVLLLRSH
5580	NP_056280.2	1464	AWPFPDVLECCLVLLLRSHF
5581	NP_056280.2	1477	LLLIRSHFPGCLAQEMQQQAQ
5582	NP_056280.2	1503	YGNTKTYRRHCQTFMXXXXX
5583	NP_056315.1	130	LRSAEEKVVVCHVVGQAIQFL
5584	NP_056315.1	151	VSETPALGAGCRLYDMRLSPF
5585	NP_056315.1	288	PGASGHINAVCVVQLNDPVQR
5586	NP_056315.1	370	QSFTLTSGSACGSSVLGSVTA
5587	NP_056324.2	12	ATELEYESVLCVKPDVSVYRI
5588	NP_056375.2	11	MWRLRRAAVACEVCQSLVKHS
5589	NP_056375.2	14	LRRAAVACEVCQSLVKHSSGI
5590	NP_056375.2	435	YMQNPNAIILCIQDGSVDAER
5591	NP_056375.2	551	TRNLSLAVSDCFWKMVRESVE
5592	NP_056375.2	786	LYWKNRTQEQCVHNETKNELE
5593	NP_056375.2	853	RHFLKTALNHCNLCRRGFYYY
5594	NP_056375.2	856	LKTALNHCNLCRRGFYYYQRH
5595	NP_056375.2	874	QRHFVDSELECNDVVLFWRIQ
5596	NP_056449.1	10	XMANVPWAEVCEKFQALALS
5597	NP_056449.1	134	LLRRYRLSHDCISLCIQAQNN
5598	NP_056449.1	138	YRLSHDCISLCIQAQNNLGL
5599	NP_056449.1	231	LEMFEEKAAHYCHSTLKRQLEH
5600	NP_056449.1	265	TLNQFYINKLCFMEARHCLSA
5601	NP_056449.1	272	NKLCFMEARHCLSAANVIFGQ
5602	NP_056449.1	313	YHQKGEIARCWIKYCLTLMQ
5603	NP_056449.1	318	GEIARCWIKYCLTLMQNAQLS
5604	NP_056449.1	444	AFFETDMERRCKMHKRRIAML
5605	NP_056449.1	583	LEHYKFIVDYCEKHPEAAQEI
5606	NP_056450.2	70	ITSAEASPAECCQHAKILEDT
5607	NP_056450.2	71	TSAEASPAECCQHAKILEDTQ
5608	NP_056450.2	140	YTVFTSLYGNCIMQEDESULL
5609	NP_056450.2	176	NPRLLRRGTCAFSILFKLFS
5610	NP_056450.2	275	FIGYLYKQNTYCFPHSLRWIVS
5611	NP_056450.2	293	IVSQMYKTLSCVDRLEVGVEV
5612	NP_056450.2	306	RLEVGEVRAMCTDLLLACFIC
5613	NP_056450.2	313	RAMCTDLLLACFICPAVVNPE
5614	NP_056450.2	316	CTDLLLACFICPAVVNPEQYG
5615	NP_056450.2	568	KPKKTLRFSLCSDNLEGISEG
5616	NP_056450.2	690	AAENMLGSLCLPGSGSVLLD
5617	NP_056450.2	702	PGSGSVLLDPCTGSTISETTS
5618	NP_056450.2	1169	HTDPEEDNEIVCFKLVQIAEAI
5619	NP_056450.2	1196	LMAQLQETMRCVCRFDNRTRC
5620	NP_056450.2	1198	AQLQETMRCVCRFDNRTRCRKL
5621	NP_056450.2	1205	RCVCRFDNRTRCRKLLASIAED
5622	NP_056450.2	1229	RAPYIAYLTRCRQGLQTTQAH
5623	NP_056450.2	1262	EVANRYFTTVCVRLLESKEK
5624	NP_056450.2	1405	AYKTPRDKVQCILRMCSTIMN

5625	NP_056450.2	1410	RDKVQCILRMCMSTIMNLLSLA
5626	NP_056450.2	1446	VFVLIKANPPCLLSTVQYISS
5627	NP_056450.2	1461	VQYISSFYASCLSGEESYWWM
5628	NP_056473.2	211	SAAFNALVTFICIRDLIGCLQK
5629	NP_056473.2	218	VTFCIRDLIGCLQKLLFGKVA
5630	NP_056473.2	263	YLGSAIQLVSCLETTVLA AV
5631	NP_056473.2	283	VLRHISVLPVPCFLTFFPKQCRM
5632	NP_056473.2	321	VLAFVLVSRVCRHKKDTFLGP
5633	NP_056473.2	344	KQMYITYVRNCKFTSPGALPF
5634	NP_056473.2	411	QSVYNWQYVHCLFLWCRVLST
5635	NP_056473.2	416	WQYVHCLFLWCRVLSTAGPSE
5636	NP_056473.2	442	VYPLAQVIIGCIKLIPARFY
5637	NP_056473.2	458	TARFYPLRMHCIRALTLLSGS
5638	NP_056473.2	540	TLEYLHSQAHCIGFPELVLPV
5639	NP_056473.2	561	VLQLKSFLRECKVANYCRQVQ
5640	NP_056473.2	567	FLRECKVANYCRQVQQLGKV
5641	NP_056485.2	122	RPSRPTHKTKCSQRRRRAMRA
5642	NP_056485.2	183	GGATPQVPSPCCRFDSPRGPP
5643	NP_056485.2	184	GATPQVPSPCCRFDSPRGPPP
5644	NP_056485.2	243	PLDPDSGLLSCTLPNGFGGQS
5645	NP_056485.2	274	PDASILISNVCSIGDHVAQEL
5646	NP_056485.2	316	HSPLREEHVTCVQSILDEFLO
5647	NP_056485.2	491	FDSQRTLNRRCPKHIAKYLQA
5648	NP_056485.2	540	SDCGAFVLQYCKHLALSQPFSS
5649	NP_056656.2	304	LDMAEIKEKICDYLFNVSDSS
5650	NP_056656.2	490	PSFYSHGLPRCSPYKLLTECQ
5651	NP_056656.2	499	RCSPYKLLTECQLKNPISGLL
5652	NP_056656.2	519	LEYAQFASQTCEFNMIEQSGP
5653	NP_056656.2	630	LECMHKLGNSCFEFRLLSKEGP
5654	NP_056656.2	649	GPAHEPKFYQYCVAVGAQTFFS
5655	NP_056656.2	754	KVGGRWFPAPCAHSHKQKQKE
5656	NP_056656.2	806	HDQIAMLSHRCFNTLTNSFQP
5657	NP_056656.2	848	VVVSLLGTGNRCVKGDSLKLG
5658	NP_056656.2	864	LSLKGETVNDCHAEIISRRGF
5659	NP_056656.2	921	SFHLYISTAPCGDGFALFDKSC
5660	NP_056656.2	931	CGDGFALFDKSCSDRAMESTES
5661	NP_056656.2	991	RLGERLRTMCS SDKILRWNVL
5662	NP_056656.2	1036	FSQGHLLTRAICCRVTRDGSFAF
5663	NP_056656.2	1037	SQGHLLTRAICCRVTRDGSFAF
5664	NP_056656.2	1084	GKTKETS VNWLADGYDLEIL
5665	NP_056656.2	1124	KNIFLLFKKLC SFRYRDLRL
5666	NP_056992.4	421	ECKPRPLHKTCSLFMRNIAPN
5667	NP_056992.4	441	NISRAEIISLCKRYPGFMRVA
5668	NP_056992.4	479	FDRSVNIKEICWNLQNI RLRE
5669	NP_056992.4	628	IVHSLDYNTCEYPNEDEMPN
5670	NP_056992.4	640	YPNEDEMPNRCGIIHVRGPMP
5671	NP_056992.4	715	TQELGKDKWLCPLSGKKFKGP
5672	NP_057018.1	106	GVIKEKLNLS CIHSPV VNELM
5673	NP_057018.1	139	GVEPREMAAMCLGLAHSLSRY
5674	NP_057018.1	183	DKELNNYIMRCREWYGFHFP
5675	NP_057018.1	207	IISDNLT YCKCLQKVGDRKNY
5676	NP_057018.1	252	MGTEVSEEDICNIIHLCTQVI
5677	NP_057018.1	258	EEDICNIIHLCTQVIEISEYR
5678	NP_057018.1	507	KEEPLSEEPCTSTAIASPEK
5679	NP_057103.2	36	QRIKFSDDRVCCKSHLLNCCPH
5680	NP_057103.2	43	DRVCKSHLLNCCPHDVLGTR
5681	NP_057103.2	44	RVCKSHLLNCCPHDVLGTRM
5682	NP_057103.2	59	LSGTRMDLGECLKVHDLALRA
5683	NP_057103.2	97	MDHLQSF IADCDRRETEVAKKR
5684	NP_057103.2	348	ERFRDQDLASCDRDRSRDRS
5685	NP_057107.3	17	VEGWKVPTSR CRFLLARVLGY
5686	NP_057107.3	188	EIKQIPSDGHCMYKAI EDQLK
5687	NP_057107.3	246	MYTPEEFQKYCEDIVNTAAWG
5688	NP_057122.2	84	AFGTDDQTEICKQILTKGEVQ
5689	NP_057122.2	210	EDYGGQLEIVCLIDPGCFREI
5690	NP_057122.2	216	LEIVCLIDPGCFREIDELIKK
5691	NP_057123.1	69	FFEKYL RDVNC PFKIQRQEA
5692	NP_057376.2	35	AAVPGGKPILCPRRTAQLGP
5693	NP_057376.2	261	TKII IHLKSDCKEFSSEAVR
5694	NP_057376.2	501	RAGTRNIYYLCAPNRHLAEHS
5695	NP_057376.2	527	MKKKDTEVLF CF EQFDEL TLL
5696	NP_057406.2	40	QFTEKKFMADCPHTIGVEFGT
5697	NP_057417.3	70	HERKRRVELRCL ELEM MEEQ
5698	NP_057417.3	785	LRRSLSGSSPCPKQKSQT PPR
5699	NP_057417.3	891	LKSRTPSRHSCSGSSP RVKS
5700	NP_057417.3	956	TPRRRSVSPCSNVESRLLPR

5701	NP_057417.3	1016	GPSLSGSKSPCPQEKS KD SLV
5702	NP_057417.3	1480	PRTPSRGRSECDSSPEPKALP
5703	NP_057417.3	1509	SPSSPELNNKCLTPQERERSGS
5704	NP_057417.3	2116	PVALNSSRMSCFSRPMSPTP
5705	NP_057417.3	2461	VPSAFSDQSRCLIAQTTPVAG
5706	NP_057542.2	163	SGLERLVRALCTPGYNARAPL
5707	NP_057542.2	227	RGVVGTLRNCCFEHRHHEWL
5708	NP_057542.2	228	GGVVGTLRNCCFEHRHHEWLL
5709	NP_057542.2	331	WEPEPDVRTACEKLIQVLIGD
5710	NP_057688.2	72	DLAIFVEFDGCNWKQHSWVKV
5711	NP_057688.2	295	RRRKSASDSGCDPASKKLGKD
5712	NP_057688.2	509	ENKPLGFSFGCSSAQEAQKDT
5713	NP_057688.2	529	TDLSKNLFFQCMSQTLPTSNY
5714	NP_057688.2	569	QSLESLSSGLCKGRSVLGTDT
5715	NP_057688.2	904	SGEPFLQDGCINVAAPHLHKC
5716	NP_057688.2	914	CINVAAPHLHKCRECLERYRK
5717	NP_057688.2	917	VAPHLHKCRECLERYRKFKKE
5718	NP_057688.2	937	EQEQDDSTVACRFFHFRLLIF
5719	NP_057688.2	999	YILANVGDQFCQLVMSEKEAM
5720	NP_057688.2	1034	VRGVREMCVCEITLTFNIHWV
5721	NP_057688.2	1045	ETTLFNIHWVCRKCGFVCLD
5722	NP_057688.2	1048	LFNIHWVCRKCGFVCLDCYR
5723	NP_057688.2	1053	WVCRKCGFVCLDCYRLRKS
5724	NP_057688.2	1056	RKCGFVCLDCYRLRKSRRPS
5725	NP_057688.2	1082	GDEEVFSWLKCAKQGSHEPEN
5726	NP_057688.2	1124	ARGKWGIKANCPCISRQNKSV
5727	NP_057688.2	1126	GKWGIKANCPCISRQNKSVLR
5728	NP_057688.2	1212	NSELKAIRPPCPDTAPPSSAL
5729	NP_057688.2	1357	KKTSDASKRACNLTDTPQKEVK
5730	NP_057688.2	1386	LDPHTSHSWLCDGRLLCLHDP
5731	NP_057688.2	1392	HSWLCDGRLLCLHDPNKNW
5732	NP_057688.2	1408	NKNWIKIFRECWKQGPVLVS
5733	NP_057688.2	1448	FGDQVDLVNCRNCALISDVK
5734	NP_057688.2	1470	RDFWDGFEIICKRLRSEDGQP
5735	NP_057688.2	1697	APHQVHNLYSICKVAEDFVSP
5736	NP_057688.2	1713	DFVSPHEVHKCFRLTQEFRHL
5737	NP_057731.1	85	DFARVAHLTRCGVLGALRELR
5738	NP_057731.1	104	LRAHTVLAASCARHRRSLRLL
5739	NP_057731.1	146	RFVSLRDGFVCALLRFRQHLL
5740	NP_057731.1	168	TSPERVVQHLQRRVPEPELP
5741	NP_060062.1	126	SDGPIQRFDKCLEEFYALCDQ
5742	NP_060062.1	140	FYALCDQLELCLRLAHECLSQ
5743	NP_060062.1	147	LELCLRLAHECLSQSCDSAKH
5744	NP_060062.1	191	YLAVIKAQISCAKDIHTALLD
5745	NP_060062.1	202	AKDIHTALLDCANKVTGKTPA
5746	NP_060102.1	24	RVAAWVEALRC DGETDKHWRH
5747	NP_060102.1	90	MAWANHVFLGCRYPQKVMDKI
5748	NP_060102.1	178	ASAQQENSSTCIGSAIKSESG
5749	NP_060102.1	426	QSSESSVKFSCKLTNEDVKQK
5750	NP_060102.1	503	QNKSSQESIVCELRCXSVYLG
5751	NP_060102.1	507	SQESIVCELRCXSVYLGTCG
5752	NP_060102.1	545	FLKKKVVVKICKRKYRGSEIE
5753	NP_060117.3	293	HPATTEDIRVCCQDIRVLGRK
5754	NP_060117.3	294	PATTEDIRVCCQDIRVLGRKE
5755	NP_060197.4	200	AGSLELFFDHCLFTMLQELDK
5756	NP_060197.4	222	PGESLHG YRICIQAILQDKPK
5757	NP_060197.4	255	LRSHQSRPAKCLTIMWALGQA
5758	NP_060197.4	343	SLTPSLQEQLCQLYPRKLVLA
5759	NP_060197.4	377	PSFLSRATPSCPPEMKKELLS
5760	NP_060197.4	392	KKELLSLSTECLTVDP LSASV
5761	NP_060197.4	464	GSSNNQDVVTCDMACKGLLQQ
5762	NP_060197.4	468	NQDVVTCDMACKGLLQQVQGP
5763	NP_060197.4	580	NATVSFLSAHCASHLAWFGDS
5764	NP_060197.4	643	LEALAWAQEHACHEACRGEVTW
5765	NP_060197.4	647	AWAQEHACHEACRGEVTWDCMK
5766	NP_060197.4	655	EACRGEVTWDCMKTQLSEAVH
5767	NP_060197.4	670	LSEAVHWTWLCQLDITVAFLD
5768	NP_060206.2	50	EPGLQGILITCNMNERKCVVEE
5769	NP_060206.2	57	LITCNMNERKCVVEEAYSLLNE
5770	NP_060206.2	169	ILRMLPISGTCKAFLEDMKKY
5771	NP_060206.2	222	EVIRELAGIVCTLNSENKVDL
5772	NP_060206.2	248	TVVVEI I KAVCCLSVVKDYML
5773	NP_060206.2	249	VVVEI I KAVCCLSVVKDYMLF
5774	NP_060221.2	68	DSINKPFAQQCQLVKVIEDF
5775	NP_060221.2	109	DGVLVGWNLRLCQGRVNPVEY
5776	NP_060221.2	221	PVSLHVRTSDCAYFILVDRYL

5777	NP_060221.2	394	QQKLYLFLQHCFGHWPLDASF
5778	NP_060221.2	435	QAPGSDSQPRCVSEKWAPFVQ
5779	NP_060221.2	550	SHVYSLEGQDCKYTPMFGPEA
5780	NP_060221.2	585	KHTAKSISDQCAESPAGHSFL
5781	NP_060221.2	737	HRFAGQMAALCSRDDFLGSFC
5782	NP_060221.2	747	CSRDDFLGSFCRYHLTEPGLA
5783	NP_060221.2	804	LLAFFVASLFCVGPLPCTLLL
5784	NP_060221.2	810	ASLFCVGPLPCTLLLTLGYVL
5785	NP_060225.4	93	YKSHAKEILHCLKNKYFKELE
5786	NP_060225.4	221	VIANDVDNKRCLLVHQAKRL
5787	NP_060225.4	235	VHQAKRLSSPCIMVVDHASS
5788	NP_060225.4	267	KEILFYDRILCDVPCSGDGM
5789	NP_060225.4	271	FYDRILCDVPCSGDGMTRKNI
5790	NP_060225.4	409	EKLQAMHLERCLRILPHHQNT
5791	NP_060225.4	589	KVINTGIKVVCRNNSGEEFDC
5792	NP_060225.4	599	CRNNSGEEFDCAFRLAQEGIY
5793	NP_060225.4	673	PDSANPDALQCPIVLCGWRGK
5794	NP_060225.4	678	PDALQCPIVLCGWRGKASIRT
5795	NP_060225.4	758	EANSPDVDTAGCDPAGVHPPRX
5796	NP_060282.1	183	KFKRYESHVPVACADLQAKILQC
5797	NP_060282.1	193	CADLQAKILQCYRENTHTLTK
5798	NP_060282.1	204	YRENTHTLTKCSALATQYMHC
5799	NP_060282.1	214	CSALATQYMHCVNHAKQSMLE
5800	NP_060289.2	246	RNVDPFHIFYCNLKDIDGALHR
5801	NP_060289.2	335	KAKRLNLATECLPLDKYLQWE
5802	NP_060289.2	362	TLDQMIRILLCLKNNGNWQEA
5803	NP_060308.1	50	SRRLTRKLYKCIKAVKQKQI
5804	NP_060308.1	92	AGDTLPIEVYCHLPVMCEDRN
5805	NP_060308.1	98	IEVYCHLPVMCEDRNLPVYVI
5806	NP_060308.1	125	GAAAGSKRPTCVIMVKPHEEY
5807	NP_060308.1	142	HEEYQEAYDECLEEVQSLPLP
5808	NP_060531.2	29	AAAAAQQQQCGGGGATKPAV
5809	NP_060597.4	51	RTREKRGPSCSGGPNIVYLQ
5810	NP_060597.4	87	FSEFNRYLFNCGEGVQRLMQE
5811	NP_060597.4	136	LTLKETGLPKCVLSGPPQLEK
5812	NP_060597.4	245	RDSSLVVAFICKLHLKRGNFL
5813	NP_060597.4	297	EGREILAEELCTPPDPGAAV
5814	NP_060597.4	311	DPGAAVVECPDESFIQPIC
5815	NP_060597.4	321	CPDESFIQPICENATFQRYQG
5816	NP_060597.4	374	DTQHLVLNENCASVHNLRSBK
5817	NP_060597.4	405	DIFPLLTFRCKKEGPTLSVP
5818	NP_060597.4	421	TLVPMVQGECLLKYQLRPRR
5819	NP_060597.4	441	REWQRDAIITCNPEEFIVEAL
5820	NP_060597.4	516	ISPDTSLLDCGEGTFGQLCR
5821	NP_060597.4	525	DCGEGTFGQLCRHYGDQVDRV
5822	NP_060597.4	595	KAWLQQYHNQCQEVLLHHISMI
5823	NP_060597.4	609	LHHISMIPAKCLQEGAEISSP
5824	NP_060597.4	632	ERLISLLRRTCDLEEFQTCV
5825	NP_060597.4	645	EEFQTCVLRHCKHAFGCALVH
5826	NP_060597.4	651	LVRHCKHAFGCALVHTSGWKV
5827	NP_060597.4	670	KVVYSGDTMPCEALVRMGKDA
5828	NP_060597.4	753	VGVAFDHMKVCFGDFPTMPKL
5829	NP_060599.1	72	FAAWFEEAVQCPDIGEANAMC
5830	NP_060599.1	82	CPDIGEANAMCLATCTRDGKP
5831	NP_060599.1	86	GEANAMCLATCTRDGKPSARM
5832	NP_060671.3	42	SGIPCEGGLRCLCWKILLNYL
5833	NP_060671.3	44	IPCEGGLRCLCWKILLNYLPL
5834	NP_060671.3	131	LQIDKDVRRCLCPDISFFQRAT
5835	NP_060671.3	204	LNEYEVLPNGCEAHWEVVERI
5836	NP_060671.3	261	KEHAEADTFFCFTNLMAEIRD
5837	NP_060671.3	282	NFIKSLDSDQCGITYKMEKVY
5838	NP_060671.3	355	DNRDFLLLVCCAMLMIREQ
5839	NP_060671.3	356	NRDFLLLVCCAMLMIREQL
5840	NP_060697.4	17	VAAHQEEASCSSWGTSNPK
5841	NP_060697.4	96	KAVTIHDTTEKQAWDLGTNFF
5842	NP_060697.4	156	TDLSFLDKYQCVVLTMLKPL
5843	NP_060697.4	174	LPLQKINDFCRSQCPIKFI
5844	NP_060697.4	178	KKINDFCRSQCPIKFIADV
5845	NP_060697.4	311	SLERQLKHPKCLIVDFSNPEA
5846	NP_060697.4	414	KAVTGKFSPLCQWLYLEAADI
5847	NP_060697.4	433	DIVESLGKPECEEFPRGRY
5848	NP_060697.4	449	RGDRYDALRACIGDTLCQKLQ
5849	NP_060697.4	455	ALRACIGDTLCQKLQNLNIFL
5850	NP_060697.4	468	LQNLNIFLVGCGAIGCEMLKN
5851	NP_060697.4	546	IKIDAHLNKVCPTTETIYNDE
5852	NP_060697.4	682	KIQSGHSLEGCFQVIKLLSRR

5853	NP_060697.4	699	LSRRPRNWSQCVELARLKFKEK
5854	NP_060697.4	721	FNHKALQLLHCFPLDIRLKDG
5855	NP_060697.4	770	NAAKLYATVYCIPIFAEEDLSA
5856	NP_060697.4	924	GGYPFEAYKNCFLNLAIPIVV
5857	NP_060716.2	71	EDIPKEVLMDCAHLVKANSIQ
5858	NP_060716.2	83	HLVKANSIQGCKMNNVNVVYT
5859	NP_060791.3	107	KDKLFWINEVCEMKNCKNCIY
5860	NP_060791.3	112	VINEVCEMKNCKNCIYFEAKK
5861	NP_060791.3	115	EVCEMKNCKNCIYFEAKKKQD
5862	NP_060791.3	158	TLAELKMTGNCLKGSRPLLSF
5863	NP_060830.2	46	EIGTMEEAGICGLGVKADMLC
5864	NP_060830.2	56	CGLGVKADMLCNSQSNLILQH
5865	NP_060830.2	71	NDILQHQGSNCGGTSNKHSLE
5866	NP_060830.2	127	DPPDQQDSECNRNKKEKTLGK
5867	NP_060830.2	160	STPEEKLAALCKKYADLLEES
5868	NP_060830.2	212	ILARSKLESLSRELQRHNKTL
5869	NP_060830.2	438	QIKLERLEKLCRALQTERNEL
5870	NP_060830.2	480	RDLATPVMQPCTALDSHKELN
5871	NP_060898.2	117	VQLWLSYVAFCKKWATKTRLS
5872	NP_060898.2	175	FLRALRFHPECPKLYKEYFRM
5873	NP_060898.2	309	AVEVGRKEERCCAVYEEAVKT
5874	NP_060898.2	310	VEVGRKEERCCAVYEEAVKTL
5875	NP_060898.2	328	KTLPTEAMWKCYITFCLERFT
5876	NP_060898.2	333	EAMWKCYITFCLERFTKKSNS
5877	NP_060898.2	437	EAFVHLKPQVCLPLWISWAEW
5878	NP_060898.2	524	MIQFEKEQESCNMANIREYYE
5879	NP_060898.2	566	LNHPPLGRPENCGQIYWRAMKM
5880	NP_060918.2	92	YQVETIVDTLCTNMLSDKEQL
5881	NP_060918.2	131	SSGSALAANVCKKITGRLTSA
5882	NP_060918.2	179	LNVFHPSILTCLLPQLTSPRL
5883	NP_060918.2	206	I IALGHLVMSCGNIVFVDLIE
5884	NP_060918.2	237	SMSTTRTYIQCIAAISRQAGH
5885	NP_060918.2	275	NVDDDELREYCIQAFESFVRR
5886	NP_060918.2	286	IQAFESFVRRCPKEYVPHVST
5887	NP_060918.2	301	YPHVSTIINICLKYLTYDPNY
5888	NP_060918.2	356	SWKVRRAAAKCLDAVVSTRHE
5889	NP_060918.2	413	KQTRPVQSWLCDPDAMEQGET
5890	NP_060918.2	453	MKEKSVKTRQCCFNMLTELVN
5891	NP_060918.2	454	KEKSVKTRQCCFNMLTELNVN
5892	NP_060918.2	500	SSNLKIDALSCLYVILCNHSP
5893	NP_060918.2	506	DALSCLYVILCNHSPQVFHPPH
5894	NP_060918.2	527	VQALVPPVVACVGDPFYKITS
5895	NP_060918.2	571	ATPYIKDLFTCTIKRLKAADI
5896	NP_060918.2	592	DQEVKERAIISCMGQIICNLGD
5897	NP_060918.2	598	RAISCMGQIICNLGDNLGSDL
5898	NP_060918.2	802	HKQSYYSIAKCVAAALTRACP
5899	NP_060918.2	810	AKCVAALTRACPKEGPAVVGQ
5900	NP_060918.2	1088	GLDIRKAAAFECMYTLLEDSCLD
5901	NP_060962.2	112	AFTEANDGSLCLAMEYGGKES
5902	NP_060962.2	185	IKGDFETIKICDVGVSLPLDE
5903	NP_060962.2	205	ENMTVTDPEACYIGTEPWPKPK
5904	NP_060962.2	300	YQKVIELFSVCTNEDPKDRPS
5905	NP_060979.2	131	DPVLAKVAGDCLDEKQCKQCA
5906	NP_060979.2	137	VAGDCLDEKQCKQCANKVLQH
5907	NP_060979.2	140	DCLDEKQCKQCANKVLQHMK
5908	NP_060979.2	266	LFVAVAGGLVACRVTELOQQPL
5909	NP_060979.2	277	RVTELOQQPLCTSVNTIYDNA
5910	NP_061141.2	34	LRKEGNELFKCGDYGGALAA
5911	NP_061141.2	118	LDQAVLDLQRCVSLPKNKVF
5912	NP_061141.2	223	LAALRTLVLGICSEHQSRVAT
5913	NP_061141.2	258	VESQAVSLAACHLLQVMFDAL
5914	NP_061141.2	426	QTVSCLLQGPCDAGNRALELS
5915	NP_061141.2	503	SIRIRALVGLCKLGSAGGTDF
5916	NP_061141.2	530	EGSTLKLAKQCRKWLQNDQID
5917	NP_061141.2	535	KLAKQCRKWLQNDQIDAGTRR
5918	NP_061141.2	596	LFAVASALVNCTNSYDYEEDP
5919	NP_061141.2	650	LAAGVVSAMVCMVKTESPVL
5920	NP_061141.2	745	RPLVSLHLNCSGLQNFALM
5921	NP_061141.2	800	MIRRAATECMCNLAMSKEVQD
5922	NP_061141.2	853	AMLTSMRPTLCSRIPQVTHW
5923	NP_061156.1	148	IVGNIQATSPCLHPTDLQKVA
5924	NP_061156.1	280	EKLKEIKLLVCNIDGCLTNGH
5925	NP_061156.1	285	IKLLVCNIDGCLTNGHIYVSG
5926	NP_061156.1	364	VDEWRKEMGLCWKEVAYLNE
5927	NP_061156.1	394	VGLSGAPADACSTAQKAVGYI
5928	NP_061156.1	405	STAQKAVGYICKNGGRGAIR

5929	NP_061156.1	407	AQKAVGYICKCNGGRGAIREF
5930	NP_061156.1	422	GAIREFAEHICLLMEKVNNSC
5931	NP_061167.1	49	LASGAAEETGCVRPPATDEP
5932	NP_061167.1	100	EGLKTADPHDCSAYTGWGIA
5933	NP_061167.1	149	NLNGRRVTFFLCGDAGPLAVGA
5934	NP_061167.1	174	KLRSDCESEQEVTKLLQLQRS
5935	NP_061167.1	187	KLLQLQRSVVCQESDLPDELL
5936	NP_061167.1	220	LNTEIGPGTVCESAIKEVVNA
5937	NP_061167.1	248	LSREERKTERCPLLYQWHRKQ
5938	NP_061167.1	321	SNETDRLVHWCHGAPGVIHML
5939	NP_061167.1	350	EKYLKEAMECSVDVIWQRGLL
5940	NP_061167.1	367	RGLLRKGYGICHGTAGNGYSF
5941	NP_061167.1	394	TQDKKYLIRACKFAEWCLDYG
5942	NP_061167.1	400	LYRACKFAEWCLDYGAHGCR
5943	NP_061167.1	408	EWCLDYGAHGCRIPDRPYSLF
5944	NP_061313.2	70	GFVGTLLPLCLATPLTVSLR
5945	NP_061313.2	197	HAFASAIFFMCLFSFGSSLSA
5946	NP_061313.2	209	FSFGSSLSAGCRGGCFTYTMS
5947	NP_061313.2	213	SSLSAGCRGGCFTYTMSRINL
5948	NP_061313.2	362	VCRYKEALEQCRQLYWRDLE
5949	NP_061313.2	394	HLGVQMLMLSCGLQMQDGEL
5950	NP_061313.2	540	DEKPI SQYEHCYLHSQVVS
5951	NP_061313.2	571	RNNIAYGLQSCEDDKVMAAAQ
5952	NP_061313.2	641	DEATSALDVQCEQAKTLWKFM
5953	NP_061322.2	230	EDDRLRDGERCRDSSFGETS
5954	NP_061322.2	293	GLLPKGYPHLCSICDLPVHSN
5955	NP_061322.2	296	PKGYPHLCSICDLPVHSNKEW
5956	NP_061322.2	319	HINGASHSRRCQLLLETYPEW
5957	NP_061322.2	552	REDAMAMVDHCLKKALWFQGR
5958	NP_061322.2	563	LKKALWFQGRCVKVDLSEKYK
5959	NP_061322.2	803	DYVIPKTGFYCKLCSLFYTNE
5960	NP_061322.2	821	TNEEVAKNTHCSSLPHYQKLK
5961	NP_061910.1	74	RALPDRALVNCQYSSATFSTG
5962	NP_061910.1	138	LQADGGTYAACVNAATLAVLD
5963	NP_061910.1	158	DAGIPMRDFVCACSAGFVDGT
5964	NP_061910.1	160	GIPMRDFVCACSAGFVDGTAL
5965	NP_061915.2	93	EEEEEDGLSECEEEEESESFAD
5966	NP_061915.2	258	HSWPKSRGSYCHFVLYKENKD
5967	NP_061915.2	319	TAQRLAHLNKL MNFKLGNFS
5968	NP_061915.2	421	SGAEKGYLVKCREEWAKTKDP
5969	NP_061915.2	443	AALRKLVPVKRCVEGQLLRGLS
5970	NP_062552.2	54	RGGTERGPGRCAPSAGSPAAA
5971	NP_062552.2	177	FKRRRRVNSDCDSVLP SNFLL
5972	NP_062552.2	244	DITDPLSLNTCTDEGHVVLAS
5973	NP_062552.2	324	QPYELNTAINCRDEVVSP LPS
5974	NP_062552.2	419	QQRKFQYGNKYCYGYRNPSC
5975	NP_062552.2	463	NVGHLTLSIACKWGPSRMVGL
5976	NP_062552.2	522	EGTTTVRKRSCFPASLTASRG
5977	NP_062552.2	580	AQTPEYDVVLCLSLTKWVHLN
5978	NP_063949.2	85	VETIAKDAYCCAQQGKRKTLQ
5979	NP_064504.2	7	XXXXMADPEVCCFITKILCAH
5980	NP_064504.2	15	EVCCFITKILCAHGGRMALDA
5981	NP_064504.2	38	QEIALSEPQLCEVLQVAGPDR
5982	NP_064504.2	73	SVVATTRARVCRRKYCQRPCD
5983	NP_064504.2	78	TRARVCRRKYCQRPCDNLHLC
5984	NP_064504.2	82	VCRRKYCQRPCDNLHLCCKLNL
5985	NP_064504.2	88	CQRPCDNLHLCCKLNLGRCNY
5986	NP_064504.2	96	HLCKLNLGRCNYSQSERNL
5987	NP_064504.2	106	CNYSQSERNLCKYSHEVLSEE
5988	NP_064504.2	150	QSDPFFMPEICKSYKGEGRQQ
5989	NP_064504.2	162	SYKGEGRQQICNQPPCSRLH
5990	NP_064504.2	168	RQQICNQPPCSRLHICDHFT
5991	NP_064504.2	174	QQPPCSRLHICDHFTRGNCRF
5992	NP_064504.2	182	HICDHFTRGNCRFPNCLRSHN
5993	NP_064504.2	187	FTRGNCRFPNCLRSHNLMDRK
5994	NP_064504.2	219	PDVVQNIQDICSNKHMQKNPP
5995	NP_064504.2	272	ASASASAERSCTPSPDQISHR
5996	NP_064504.2	513	RVDDHDSEEICLDHLCKGCPL
5997	NP_064504.2	518	DSEEICLDHLCKGCPLNGSCS
5998	NP_064504.2	527	LCKGCPLNGSCSKVHFHLPYR
5999	NP_064504.2	560	EHMETIEKGYCNPGIHLCSVG
6000	NP_064504.2	567	KGYCNPGIHLCSVGSYTI NFR
6001	NP_064504.2	581	SYTINFRVMSCDSPIRRLLST
6002	NP_064504.2	798	ATSRAYVESICSNNFDSFLHE
6003	NP_064504.2	831	AKDAIYSHKNCPYDAKNVVMF
6004	NP_064504.2	867	YTSPPPQFDSQVDRSNPVSF

6005	NP_064528.1	226	QNIKMARTAICNLILGNPPSK
6006	NP_065104.1	169	EEKEWDSEASCPKQNSAFYVD
6007	NP_065104.1	193	LVRALQELPLCLRLNVAAELV
6008	NP_065108.1	76	MHGILERSKFKCKDMTVKYDSR
6009	NP_065108.1	140	MRGIDFFEFLLCQLILKEADQK
6010	NP_065108.1	161	EQFSQGSNSCLETSLEIFP
6011	NP_065108.1	215	LFDYFLTDLKCSLPLSRSE
6012	NP_065108.1	254	EGREVKPTVQCICMNLQDHLN
6013	NP_065108.1	256	REVKPTVQCICMNLQDHLNGL
6014	NP_065393.1	424	SNLESKVDKCKFADSLEQTNH
6015	NP_065393.1	559	GLTPDLVQEAASELNEVTGT
6016	NP_065393.1	597	QESLYPAAQLCPSFESEATP
6017	NP_065393.1	699	ETEAPYISACDLIKETKLSA
6018	NP_065393.1	912	NAPDGAGSLPCTELPHDLCLK
6019	NP_065700.1	142	PASSTSTSTCRAEAPRDRDR
6020	NP_065731.3	88	AYIDGLETEKCLHVVEAVTP
6021	NP_065731.3	135	VKALSFLVNDCSLIHNNVMA
6022	NP_065731.3	143	NDCSLIHNNVMAAVFVDRAG
6023	NP_065731.3	210	KWSADMWRGLCGLIWEVFNGL
6024	NP_065731.3	261	RPNPARFLQNCRAPGGFMSNR
6025	NP_065731.3	446	QAKDEQGPIRCNTTVCLGKIG
6026	NP_065731.3	451	QGPIRCNTTVCLGKIGSYLSA
6027	NP_065731.3	503	ATHNLYSMNDCAQKILPVLGG
6028	NP_065731.3	512	DCAQKILPVLGCLTVDPKSV
6029	NP_065741.3	213	QVDTRSLAEACSDGDVNAVRK
6030	NP_065741.3	243	EHTEEGESLLCLACSAGYYEL
6031	NP_065741.3	246	EEGESLLCLACSAGYYELAQV
6032	NP_065741.3	313	ATGNTALTYACAGGFVDIVKV
6033	NP_065741.3	380	EFKESALTLACYKGHLDMVRF
6034	NP_065741.3	413	DEMHTALMEACMDGHVEVARL
6035	NP_065741.3	447	SFESPLTLAACGGHVELAALL
6036	NP_065741.3	615	LMKAARAGHLCTVQFLISKGA
6037	NP_065741.3	643	NNDHTVVSLACAGGHLAVVEL
6038	NP_065741.3	777	PSFHPYQPLECIVEETEGLKN
6039	NP_065741.3	873	QKDTVSLHQCSHRGVFPEGE
6040	NP_065741.3	935	VPVQPLSSPQC�NFSSDLGSNG
6041	NP_065741.3	1020	GSNSSSQTTTECLTPESCSQTT
6042	NP_065741.3	1026	QTTECLTPESCSQTTSNVASQ
6043	NP_065741.3	1308	IAADKGHYKFCCELLIHRGAHI
6044	NP_065741.3	1390	EVNQFPSDIECMRYIATITDK
6045	NP_065741.3	1406	TITDKELLKKCHQCVETIVKA
6046	NP_065741.3	1409	DKELLKKCHQCVETIVKAKDQ
6047	NP_065741.3	1716	VVSRIMGRGGCNITAIQDVTG
6048	NP_065741.3	1933	SESAGLATASCPITVSSVVAA
6049	NP_065741.3	1948	SSVVAASQQLCVTNTRTPSSV
6050	NP_065741.3	1965	PSSVRKQLFACVPKTSPPATV
6051	NP_065741.3	2042	STQDQPMANLCTPSSTANSCS
6052	NP_065741.3	2051	LCTPSSTANSCSSASNTPGA
6053	NP_065741.3	2518	MIKVIQNSTECTDAQQASLLP
6054	NP_065741.3	2579	VPAGVQELTHCPDTPLLPPSD
6055	NP_065761.1	164	RLQSLNLTGNCLDSFPAELFR
6056	NP_065761.1	224	LSEIPAELADCPKKEINFRG
6057	NP_065761.1	367	TSQTKLHEDLCEKRTAATLAT
6058	NP_065761.1	390	LRAVKGPLYLCARPPQDLKIV
6059	NP_065761.1	450	HLLDGNENYPCLVDADGDVIS
6060	NP_065761.1	492	EVTSATSLQICKDVM DALILK
6061	NP_065801.1	10	XMAMDQVNALCEQLVKAVTVM
6062	NP_065801.1	37	QRYRLEALKFCEEFKEKCPIC
6063	NP_065801.1	44	LKFCEEFKEKCPICVPCGLRL
6064	NP_065801.1	47	CEEFKEKCPICVPCGLRLAEK
6065	NP_065801.1	50	FKEKCPICVPCGLRLAEKTQV
6066	NP_065801.1	221	TSQESKAQANCRVGAALNTL
6067	NP_065801.1	248	VSMSHITAENCKLLEILCLLL
6068	NP_065801.1	270	EQELQLGAAECLLI AVSRK GK
6069	NP_065801.1	323	EKHVYFLKRLCQVLCALGNQL
6070	NP_065801.1	327	VFLKRLCQVLCALGNQLCALL
6071	NP_065801.1	334	QVLCALGNQLCALLGADSDVE
6072	NP_065801.1	482	TFLDAGSVNSCSAVGTGEGSL
6073	NP_065801.1	493	SAVGTGEGSLCSVFSFVQW
6074	NP_065801.1	551	FDTKDPLILSCVLTNVSALFP
6075	NP_065801.1	605	RAVRNVRRHACSSIIKMCRDY
6076	NP_065801.1	612	RHACSSIIKMCRDYPQLVLPN
6077	NP_065801.1	646	NELLLTQMEKCALMEALVLIS
6078	NP_065801.1	706	IAYVGTQKSCDPGLEDP CGL
6079	NP_065801.1	714	KSCDPGLEDP CGLNRARMSFC
6080	NP_065801.1	724	CGLNRARMSFCVYSILGVV KR

6081	NP_065801.1	736	YSILGVVKRTCWPTDLEEAKA
6082	NP_065801.1	847	QRFFSTLYENCFHILGKAGPS
6083	NP_065801.1	903	RVFVKPLVLFPCPEHYEALVS
6084	NP_065801.1	941	WQVINQSRSLLCGEDEAADENP
6085	NP_065801.1	976	TREVMDLITVCCVSKKGADHS
6086	NP_065801.1	977	REVMDLITVCCVSKKGADHSS
6087	NP_065801.1	1017	AMAELTDLGKCLMKHEDVCTA
6088	NP_065801.1	1025	GKCLMKHEDVCTALLITAFNS
6089	NP_065801.1	1052	LSCQRTTSQLCWPLLKQVLSG
6090	NP_065801.1	1089	GLQMHGQHDGCMASLVHLAFQ
6091	NP_065801.1	1131	IQKDSLQDFDCKLLNPSLQKV
6092	NP_065801.1	1157	KDQFKRLIAGCIGKPLGEQFR
6093	NP_065816.2	89	ALSTHYITTVCSLI PRNQLQS
6094	NP_065816.2	137	KHLILLIKGLCTGCSRLDRTE
6095	NP_065816.2	140	ILLIKGLCTGCSRLDRTEIIT
6096	NP_065816.2	260	LGGSEKLLRVCLNLPYFLRYI
6097	NP_065816.2	336	LQDVTVLSLSCLYAGVSVATC
6098	NP_065816.2	346	CLYAGVSVATCMAILHVGSAQ
6099	NP_065816.2	413	YQNFQLLGAWCLLNSLFLILN
6100	NP_065816.2	546	TLLSTSyrKACVLQRQRK GSM
6101	NP_065816.2	779	SAQGD PDVPECLKVWDRFLST
6102	NP_065816.2	934	SDAVPHPRFYCVLSP EASEDD
6103	NP_065816.2	953	DDLNR LDSVACDVLFSKLVKY
6104	NP_065816.2	1033	LSMNSPEMSECDILHTLRWSS
6105	NP_065816.2	1080	SLL ELASTTKCSSVKYDVEIV
6106	NP_065816.2	1102	EYFARQISSFC SIDCTTILQL
6107	NP_065816.2	1106	RQISSFC SIDCTTILQLHEIP
6108	NP_065816.2	1209	AAVLAIGSSRCKANTLGPTLV
6109	NP_065816.2	1230	QNL PSSVQTVCESWNNINTNE
6110	NP_065816.2	1274	AVQAAHLGTLCSQSLPLAASL
6111	NP_065816.2	1358	ARVYEKLITGCYNILANHADP
6112	NP_065816.2	1424	TANENLSAKFCNRVLKFFTKL
6113	NP_065816.2	1450	KSPNP SLLHL CGSLAQLACVE
6114	NP_065816.2	1511	RENSQVGEVCAVLLGTLTPM
6115	NP_065816.2	1567	HNAAVDWLSRCKKYL S QKNVV
6116	NP_065816.2	1595	MHGKHVMILECTCHIMSYLAD
6117	NP_065816.2	1597	GKHVMILECTCHIMSYLADVT
6118	NP_065816.2	1662	SDEDSL CNKLCFTITQKEFM
6119	NP_065816.2	1679	KEFMNQHWYHCHTCKMVDG VG
6120	NP_065816.2	1682	MNQHWYHCHTCKMVDG VGVCT
6121	NP_065816.2	1691	TCKMVDG VGVCTVCAKVCHKD
6122	NP_065816.2	1694	MVDG VGVCTVCAKVCHKDHEI
6123	NP_065816.2	1698	VGVCTVCAKVCHKDHEI SYAK
6124	NP_065816.2	1714	ISYAKYGSFFCD CGAKEDGSC
6125	NP_065816.2	1716	YAKYGSFFCD CGAKEDGSCLA
6126	NP_065816.2	1724	CD CGAKEDGSC LALVKRTPSS
6127	NP_065816.2	1789	DEEKPKSSL CRTVEGCREEL
6128	NP_065816.2	1795	KSSLCRTVEGCREELQ NQANF
6129	NP_065816.2	1900	SAHVLRRVAMCVLSSPHGRRQ
6130	NP_065816.2	1962	FTVLSLTGNPCKEDYLAVCGL
6131	NP_065816.2	1970	NPCKEDYLAVCGLKDCHVLT F
6132	NP_065816.2	1975	DYLAVCGLKDCHVLT FSSSGS
6133	NP_065816.2	2029	TAD FVKIYDL CVDALSPTFYF
6134	NP_065816.2	2127	HVLQMLFFSYCQ GKSF AATIS
6135	NP_065816.2	2165	NGGSKTSPALCQWSEVMNHPG
6136	NP_065816.2	2178	SEVMNHPGLVCCVQQT TGVPPL
6137	NP_065816.2	2179	EVMNHPGLVCCVQQT TGVPPLV
6138	NP_065816.2	2234	EQQR TTMILLCE DGSRLRIYMA
6139	NP_065816.2	2449	EFPSASVSNICPSNLNQSNGT
6140	NP_065816.2	2489	VVSSLEALESCFAVGP IIEKE
6141	NP_065816.2	2618	KEPQKQLEGDCCSFITQLVNH
6142	NP_065816.2	2619	EPQKQLEGDCCSFITQLVNH F
6143	NP_065816.2	2668	NALVDIIHG YCTCELD CINTA
6144	NP_065816.2	2670	LVDIIHG YCTCELD CINTASK
6145	NP_065816.2	2674	IHG YCTCELD CINTASKIYMQ
6146	NP_065816.2	2688	ASKIYMQMLLCPDPAVS F SCK
6147	NP_065816.2	2697	LCPDPAVS F SCKQALIRVLRP
6148	NP_065816.2	3218	RQVRKLLLFICGSKEKYRQLR
6149	NP_065816.2	3294	AQRTINWQKFCIKDDSVLYFL
6150	NP_065816.2	3325	VSPVLLQLLSCALCGSKVLAA
6151	NP_065816.2	3392	ETSGSQEDQLCTALVNQLNK F
6152	NP_065816.2	3414	DKETLIQFLRCFLLESNSSSV
6153	NP_065816.2	3430	NSSSVRWQAHCLTLHIYRNSS
6154	NP_065816.2	3535	YLESDEPCLVCNNPEVPFCYI
6155	NP_065816.2	3543	LVCNNPEVPFCYIKLSSIKVD
6156	NP_065816.2	3660	NYQASTETLQCPRCSASVPAN

6157	NP_065816.2	3663	ASTETLQCPRCSASVPANPGV
6158	NP_065816.2	3674	SASVPANPGVCGNCGENVYQC
6159	NP_065816.2	3677	VPANPGVCGNCGENVYQCHKC
6160	NP_065816.2	3684	CGNCGENVYQCHKCRSINYDE
6161	NP_065816.2	3687	CGENVYQCHKCRSINYDEKDP
6162	NP_065816.2	3700	INYDEKDPFLCNACGFCKYAR
6163	NP_065816.2	3703	DEKDPFLCNACGFCKYARFDF
6164	NP_065816.2	3706	DPFLCNACGFCKYARFDFMLY
6165	NP_065816.2	3720	RDFMLYAKPCCAVDPIENEE
6166	NP_065816.2	3721	FDFMLYAKPCCAVDPIENEE
6167	NP_065816.2	3765	GHRPQLENLLCKVNEAAPEKP
6168	NP_065816.2	3804	RYILQLAQEYCGDCKNSFDEL
6169	NP_065816.2	3807	LQLAQEYCGDCKNSFDELSKI
6170	NP_065816.2	3864	SQYRALSVLGC GHTSSTKCYG
6171	NP_065816.2	3872	LGC GHTSSTKCYGCASAVTEH
6172	NP_065816.2	3875	GHTSSTKCYGCASAVTEHCIT
6173	NP_065816.2	3930	AMREEVRQLMCLLTRDNPEAT
6174	NP_065816.2	3985	LTDSISKEDSCWELRLRCALS
6175	NP_065816.2	4016	PVVVENITLMCLRLIQLIKP
6176	NP_065816.2	4049	VEALTTVKPYCNEIHAQAQLW
6177	NP_065816.2	4074	PKASYDAWKCLPIRGIDGNG
6178	NP_065816.2	4179	YLDELSIAGECAA EYLALYQK
6179	NP_065816.2	4313	ESETKAFMAVCIETAKRYNLD
6180	NP_065816.2	4336	RTPVVFIFERLCSI IYPEENEV
6181	NP_065816.2	4391	PLMRDIKNKICQDCDLVALLE
6182	NP_065816.2	4394	RDIKNKICQDCDLVALLEDDS
6183	NP_065816.2	4430	PVAEVYKVVWCTTNEGEPMRI
6184	NP_065816.2	4482	VYKMAQVMAQCGGLECMLNRL
6185	NP_065816.2	4487	GVMAQCGGLECMLNRLAGIRD
6186	NP_065816.2	4515	LTVLLKLF SYCVKVKVNRQQL
6187	NP_065816.2	4642	QILVERFKPYCNFDKYDEHDS
6188	NP_065816.2	4661	HSGDDKVFLDCFKIAAGIKN
6189	NP_065816.2	4663	GDDKVFLDCFKIAAGIKNNS
6190	NP_065816.2	4838	EELIEEPGLTCCICREGYKFQ
6191	NP_065816.2	4839	ELIEEPGLTCCICREGYKFQP
6192	NP_065816.2	4841	IEEPGLTCCICREGYKFQPTK
6193	NP_065816.2	4890	VSHFNIVHYDCHLA AAVRLARG
6194	NP_065816.2	4916	SAALQNANTKCNGLLPVWGP
6195	NP_065816.2	4935	PHVPESAFATCLARHNTYLQE
6196	NP_065816.2	4946	LARHNTYLQECTGQREPTYQL
6197	NP_065857.1	74	EEIKETLIDWCDEKELNLILT
6198	NP_065857.1	133	TPLGMLSRPVC GIRGKTLIIN
6199	NP_065857.1	154	LPGSKKGSQECFQF ILLPALPH
6200	NP_065857.1	212	HKQTEDKGVQCEEEEEK KDS
6201	NP_065857.1	317	QATSRLSTASCPTPKVQS RCS
6202	NP_065857.1	326	SCPTPKVQS RCSSKENILRAS
6203	NP_065857.1	502	PIGHDIKRGE CVLAKGTHMGP
6204	NP_065857.1	668	PGNPVSAVVT CNLFVVPALRK
6205	NP_065857.1	696	RPTIIKARLSCDV KLDPRPEY
6206	NP_065857.1	709	KLDPRPEYHRC ILTWHHQEPL
6207	NP_066018.1	137	YDRYLRMDDY CRRKDDSYFDR
6208	NP_066018.1	200	RRFDAERPVD CSVI VVNKQTK
6209	NP_066018.1	301	ARNYERYKNE CREKERE IAR
6210	NP_066930.1	16	LLHGLNTSLT CGPALVPRLWA
6211	NP_066930.1	28	PALVPRLWATC SMATLNQMHR
6212	NP_066930.1	80	PKKPNSANR KCCRVLSTGRE
6213	NP_066930.1	81	KKPNSANR KCCRVLSTGREA
6214	NP_066930.1	93	VRLSTGREAVCF IPEGHTLQ
6215	NP_066952.1	113	DPGHNDKHTGCCG DNDPIDVC
6216	NP_066952.1	114	PGHNDKHTGCCG DNDPIDVCE
6217	NP_066952.1	123	CCGDNDPIDVCE IGSKVCARG
6218	NP_066952.1	130	IDVCEIGSKVCARGE IGVKV
6219	NP_066952.1	242	TKKTNGKGISCMNTT LSESPF
6220	NP_066952.1	274	DALPPPCESACTVPTD VDKWF
6221	NP_066961.2	34	LGTKLEAKYLCSACRNVLRRP
6222	NP_066961.2	37	KLEAKYLCSACRNVLRRPFQA
6223	NP_066961.2	49	NVLRRPFQAQCGHRYCSFCLA
6224	NP_066961.2	54	PFQAQCGHRYCSFCLASILSS
6225	NP_066961.2	69	ASILSSGPQNCAACVHEGIYE
6226	NP_066961.2	72	LSSGPQNCAACVHEGIYEEGI
6227	NP_066961.2	107	RREVESLPAVCP SDGCTWKGT
6228	NP_066961.2	112	SLPAVCP SDGCTWKGTLKEYE
6229	NP_066961.2	129	KEYESCHEGRCP LMLTECPAC
6230	NP_066961.2	136	EGRCPLMLTECPACKGLVRLG
6231	NP_066961.2	139	CPLMLTECPACKGLVRLGEKE
6232	NP_066961.2	156	GEKERHLEHECPERSLS CRHC

6233	NP_066961.2	163	EHECPERSLSRHCRAPECCGA
6234	NP_066961.2	166	CPERSLSRHCRAPECCGADVK
6235	NP_066961.2	170	SLSCRHCRAPECCGADVKAHHE
6236	NP_066961.2	171	LSCRHCRAPECCGADVKAHHEV
6237	NP_066961.2	182	GADVKAHHEVCPKFLPTCDGCG
6238	NP_066961.2	189	HEVCPKFLPTCDGCGGKKKIPR
6239	NP_066961.2	192	CPKFLPTCDGCGGKKKIPREKF
6240	NP_066961.2	209	REKFQDHVKTCGKCRVPCRFBH
6241	NP_066961.2	212	FQDHVKTCGKCRVPCRFBHAI
6242	NP_066961.2	216	VKTCGKCRVPCRFBHAI
6243	NP_066961.2	223	RVPCRFBHAI
6244	NP_066961.2	303	VERVAMTAEACSRQHRLDQDK
6245	NP_066961.2	391	FYTSRYGYKMCLRIYLN
6246	NP_066961.2	469	PVNDMNIASGCPLFCPVSKME
6247	NP_066961.2	473	MNIASGCPLFCPVSKMEAKNS
6248	NP_066964.1	13	RSGNKA
6249	NP_066964.1	157	LDIIHSLKCDISLQFFLPF
6250	NP_066964.1	235	YSFSESLRKLKCVFKKIERHSI
6251	NP_066964.1	249	KIERHSIHWPCRLTIGSNLSI
6252	NP_066964.1	339	EQMKYKSEGKCFVLFCKSS
6253	NP_066964.1	346	EGKCFVLFCKSSQVQRRFF
6254	NP_066964.1	418	AFPHIKHNYECLVYVQLPFME
6255	NP_066964.1	493	PNPRFQRLFQCLLHRALHPRE
6256	NP_066964.1	638	ETPYFMKSIDCIRAFREEAIK
6257	NP_066997.3	238	LTPYTVDSPICDFLELQRRYR
6258	NP_066997.3	325	SPGLEELYRCCMLFVDDMAEP
6259	NP_066997.3	387	PQVLVRTAIRCAQAQTGIDLS
6260	NP_066997.3	399	QAQTGIDLSGCTKWWRF
6261	NP_066997.3	443	MPTLEEWALCQKAAEAAPP
6262	NP_066997.3	515	LEPAVIARPGCVNLSLHGIVE
6263	NP_066997.3	705	LDPSAVLPLDCLLAFVFFDAN
6264	NP_066997.3	717	LAFVFFDANWCGYLHRRDLER
6265	NP_066997.3	754	LVS
6266	NP_067026.3	179	LKNTPSFLIACNKQDIAMAKS
6267	NP_067026.3	246	QLPLKVEFLECSAKGGRGDVG
6268	NP_067075.1	110	DNWLNLELETYCTRNDIVNMLV
6269	NP_067075.1	155	MLFIEASAKTCDGVQCAFEEL
6270	NP_067075.1	199	HREEGQGGGACGGYCSVLXXX
6271	NP_068598.1	50	GQDPPEHISLCHSAKKVKNIC
6272	NP_068598.1	60	CHSAKKVKNICSTFSSRRILT
6273	NP_068598.1	191	LLGSTS
6274	NP_068598.1	232	HSMLDVYETKCHQVWEMNMD
6275	NP_068598.1	233	SMLDVYETKCHQVWEMNMDQ
6276	NP_068598.1	345	FVMRKIGDLACANIQHLSSRS
6277	NP_068598.1	425	AASLPPRVAHCRSKDVAKILW
6278	NP_068598.1	475	FNQYPEHLPTCLLGLAFLEYF
6279	NP_068598.1	525	YTL
6280	NP_068598.1	685	KSGAMEMAGLCPAACMQTPRM
6281	NP_068598.1	689	MEMAGLCPAACMQTPRMKLA
6282	NP_068598.1	708	AVQFTNRNQYCYGSRDLLGLH
6283	NP_071349.3	101	GEEEGRGSSGCSEAGGAGHEE
6284	NP_071349.3	163	VRHMRSTDSQCGTVIDVNIC
6285	NP_071349.3	173	CGTVIDVNICDAVKLIGTNCI
6286	NP_071349.3	182	DAVKLIGTNCIIYPVNSKDL
6287	NP_071349.3	208	FMYGDYIAYDCWLKGYDLKN
6288	NP_071349.3	230	IILKLSNGARCSMNTEGAKL
6289	NP_071349.3	244	TEDGAKLYDVC
6290	NP_071349.3	314	LKVTWITKSFCPGGTDVSP
6291	NP_071349.3	341	ENLGRVKRLGCFDHAQRQLGE
6292	NP_071349.3	353	DHAQRQLGERCLYVFPKVEP
6293	NP_071349.3	370	KVEPAKIAWECPEKNCAQEGE
6294	NP_071349.3	375	KIAWECPEKNCAQEGESMAK
6295	NP_071349.3	400	LKKQVVRIMSCSPDTQCSR
6296	NP_071349.3	406	RIMSCSPDTQCSRDSMEDPD
6297	NP_071349.3	566	DVMWQDGSVECNIRSNLFPV
6298	NP_071349.3	585	PVHHLDNNEFCPGDFVVDKRV
6299	NP_071349.3	617	VQSGDHI
6300	NP_071349.3	910	AEWPSETPVLCCQCGGKPGVT
6301	NP_071349.3	913	PSETPVLCCQCGGKPGVFTS
6302	NP_071349.3	1020	NIYPAVPPHFCYLSQCSGRLN
6303	NP_071349.3	1025	VPPHFCYLSQCSGRLNPNLYD
6304	NP_071349.3	1040	NPNLYDNGKVCVSLGTWIGK
6305	NP_071349.3	1099	GLQEGYENSRCYNEMALIRVV
6306	NP_071441.1	150	VDKFGFHTVTCCGFIPQVNEW
6307	NP_071441.1	151	DKFGFHTVTCCGFIPQVNEWQ
6308	NP_071757.4	119	VLQGLKALSCLVALPPGLAVS

6309	NP_071757.4	220	FVEELFEVTSCYFPIDFTPPP
6310	NP_071757.4	285	KLDSLQTLNACCAVYGQKELK
6311	NP_071757.4	286	LDSLQTLNACCAVYGQKELKD
6312	NP_071757.4	331	GLAALHSLTACLRSRVLRA
6313	NP_071757.4	356	DSFLSNILQDCRHHLCPEPMK
6314	NP_071757.4	361	NILQDCRHHLCPEPMKLVWPS
6315	NP_071757.4	386	QAAAGASARACDSVTSNVLPL
6316	NP_071757.4	445	RPLNGFKDQLCSLVFMALTD
6317	NP_071757.4	554	DEPTQCSRHLCCQLQALSAV
6318	NP_071757.4	555	EPTQCSRHLCCQLQALSAVST
6319	NP_071757.4	599	VAQSSDVIIVCQSLRQMAEKC
6320	NP_071757.4	609	CQSLRQMAEKCQQDPESCWYF
6321	NP_071757.4	616	AEKCQQDPESCWYFHQTAIPC
6322	NP_071757.4	626	CWYFHQTAIPCLLALAVQASM
6323	NP_071757.4	723	RLIALLLMAFVCSLPRNVEIQ
6324	NP_071757.4	746	QLMRELELELSCCHSCPFSSTA
6325	NP_071757.4	747	LMRELELELSCCHSCPFSSTAA
6326	NP_071757.4	750	ELLELSCCHSCPFSSTAAAKC
6327	NP_071757.4	760	CPFSSTAAAKCFAGLLNKHPA
6328	NP_071757.4	794	KVEAGLGSGPCRSQAFTELLW
6329	NP_071757.4	848	ADGFSLMSDCTDVLTRAGHA
6330	NP_071757.4	924	LLSLLLEALSCPDCVVQLSTL
6331	NP_071757.4	927	LLLEALSCPDCVVQLSTLSCL
6332	NP_071757.4	936	DCVVQLSTLSCLQPLLEAPQ
6333	NP_071933.2	50	VAAGDHLVHHCPTWQWATGEE
6334	NP_071933.2	81	KQFLVTKNVPCKRCKQMEYS
6335	NP_071933.2	85	VTKNVPCYKRCQMEYSDELE
6336	NP_071933.2	139	ENKDNIRLQDCSALCEEEDE
6337	NP_071933.2	143	NIRLQDCSALCEEEDEDEGE
6338	NP_071933.2	259	NHPHLPPPMCSVHPCRHAEV
6339	NP_071933.2	264	PPPMCSVHPCRHAEVMKKI I
6340	NP_073570.1	28	NLLLEEDNKFCADCQSKGPRW
6341	NP_073570.1	31	LEEDNKFCADCQSKGPRWASW
6342	NP_073570.1	48	WASWNIGVFICIRCAGIHRNL
6343	NP_073570.1	51	WNIGVFICIRCAGIHRNLGVH
6344	NP_073570.1	80	LDQWTQEIQCMQEMGNKAN
6345	NP_073576.1	20	GPVKLRLTVLCAKNLVKKDFF
6346	NP_073576.1	47	AKVVVDGSGQCHSTDTVKNTL
6347	NP_073576.1	96	HKKQGAGFLGCVRLLSNAINR
6348	NP_073576.1	118	KDTGYQRLDLCKLGPNDNTV
6349	NP_073576.1	204	EYSSPGRPLSCFVDENTPISG
6350	NP_073576.1	220	TPISGTNGATCGQSSDPRLAE
6351	NP_073576.1	293	RVPRDLNINCEELGPLPPGW
6352	NP_073576.1	356	DQQQQVVVSLCPDDETECLTVP
6353	NP_073576.1	362	VVSLCPDDETECLTVPRYKRD
6354	NP_073576.1	393	LSQQQPQAGHCRIEVSREEIF
6355	NP_073576.1	550	DITGVLDHTFCVEHNAYGEII
6356	NP_073576.1	627	FDEKELELIICGLGKIDVNDW
6357	NP_073576.1	646	DWKVNTRLKHCTPDSNIVKWF
6358	NP_073576.1	706	RLFTIHQIDACTNNLKAHTC
6359	NP_073576.1	716	CTNNLKAHTCFNRIDIPPYE
6360	NP_073600.3	60	TIRAEDGTLQCIQGAPEVPM
6361	NP_073600.3	108	RVVVTQSPECYPPSYPSAMS
6362	NP_073600.3	218	SPPSSYKSSCTTVYNGYGKG
6363	NP_073600.3	304	LSWAPPVGLSCGPHSGLSFPY
6364	NP_073600.3	340	KIIYSGELECNLKDRLPATD
6365	NP_073600.3	366	YAMYNVKGSCSEPVSFTTHS
6366	NP_073600.3	377	SEPVSFTTHSCAPECFPPK
6367	NP_073600.3	381	SFTTHSCAPECFPPKLAHRS
6368	NP_073600.3	428	EGKRNSGFRQCFFGSQKHCKL
6369	NP_073600.3	436	RQCFFGSQKHCKLTKLCPAMG
6370	NP_073600.3	442	SQKHCKLTKLCPAMGYTFRLA
6371	NP_073600.3	468	GTSGYSQEVVYCYTLGNIPQMP
6372	NP_073600.3	501	VTLQWSKPEGCSPEEVITYTL
6373	NP_073600.3	533	HPKYTGEDLTCTVKNLKRSTQ
6374	NP_073600.3	565	GKSCPSEVLVCTTSPDRPGPP
6375	NP_073600.3	648	KPGTLYKLRACCISTGGHSQC
6376	NP_073600.3	649	PGTLYKLRACCISTGGHSQCS
6377	NP_073600.3	658	CCISTGGHSQCSESLPVRTLS
6378	NP_073600.3	701	EWDVPAESGCEVSEYSVEMT
6379	NP_073600.3	770	ITTAAGPPGQCKAPCISCTPD
6380	NP_073600.3	774	AGPPGQCKAPCISCTPDGCVL
6381	NP_073600.3	777	PGQCKAPCISCTPDGCVLVGW
6382	NP_073600.3	782	APCISCTPDGCVLVGWESPDS
6383	NP_073600.3	835	RDLLPAAQYCCRLQAFNQAGA
6384	NP_073600.3	868	ASAPDPVSTLCVLEEEPLDAY

6385	NP_073600.3	894	ACLVLNWEPCNNGSEILAYT
6386	NP_073600.3	966	PLPPLPPRLECAAAGPQSLKL
6387	NP_073600.3	1025	YKVQRLTEFTCYSFRIQAASE
6388	NP_073600.3	1070	PRVTQLEGNSCEILWETVPSM
6389	NP_073600.3	1126	QTNTDYRFRVCACRRCLDTSQ
6390	NP_073600.3	1128	NTDYRFRVCACRRCLDTSQEL
6391	NP_073600.3	1131	YRFRVCACRRCLDTSQELSGA
6392	NP_073616.6	91	VPRGVPGPAVCAPGSLHHAS
6393	NP_073616.6	198	TSDRNQEERQCIKTSLSLFKNN
6394	NP_073616.6	286	QTGSGKTLAYCIPVVQSLQAM
6395	NP_073616.6	413	TVILNAVNAECQKRQNVLLSA
6396	NP_073616.6	464	NPKDKAQVEVCPPPAGDKLDS
6397	NP_073616.6	505	VCLAAFILQKCKFEEDQKMVV
6398	NP_073616.6	624	HRIGRTARIGCHGSSLLILAP
6399	NP_073616.6	667	DILCVLTRDDCFKGRWGAQK
6400	NP_073616.6	825	PLQHSLOPTPCFGRGKTLKWR
6401	NP_075013.1	123	IASIDFKRETCSVVYTYGYNR
6402	NP_075013.1	250	PPIIPPPPICPDSLDDADAL
6403	NP_075066.1	96	DLLKTAfvNSCYIKSEAKRQ
6404	NP_075066.1	136	SEQGTSFSQTCCLTQFLEDEYP
6405	NP_075066.1	167	VDFLTGEVVCHVARNLAVEQ
6406	NP_075066.1	276	ALPLYFVGLYCDKLLIAEGPG
6407	NP_075568.1	21	AAAAPGPGTPCASRGARLPGP
6408	NP_075568.1	44	SARNPSTVCLCPEQPTCSNAD
6409	NP_075568.1	50	TVCLCPEQPTCSNADSRAHPL
6410	NP_075568.1	205	GATRKKSQRVCRPRSIRAKA
6411	NP_076968.2	29	LDARDRGTQRCLGPAALHAL
6412	NP_076968.2	57	VKISLPDGGSCLECTAWPRRDG
6413	NP_076968.2	59	ISLPDGGSCLECTAWPRRDGAD
6414	NP_076968.2	104	LSLNRLLLVPCLRRVAVWP
6415	NP_076968.2	309	LLFLDEMDALCPQRGSRAPES
6416	NP_076968.2	509	KGVLlyGPPGCAKTTLVRALA
6417	NP_076968.2	524	LVRALATSCHCSFVSVSGADL
6418	NP_076968.2	580	LGARSASKTGCDVQERVLSVL
6419	NP_076968.2	665	HKGRLSILKVKCTKMPIGPDV
6420	NP_076968.2	685	VLENLAAETCFFSGADLRNL
6421	NP_076977.3	365	TELLTQRVSCAHIYSALDPT
6422	NP_076977.3	389	INLAKFTLGKCSLTIIVTLAA
6423	NP_076977.3	586	FEINASSRDLCSQVMRAKRQK
6424	NP_077003.1	116	QPEYSPESPRCQPKPSEAPK
6425	NP_077295.1	103	GLSKEDFAEVCKREGGDPPEEK
6426	NP_077295.1	179	PRAEDQTESSCESHRKSKKEK
6427	NP_077295.1	237	HHHSDSNPCCRRKRGRHSG
6428	NP_077295.1	238	HHSDSNPCCRRKRGRHSGD
6429	NP_078832.1	93	EDEESKKFKCLHEDKNLVHV
6430	NP_078832.1	126	SNVRSTFFKDCLYEVFDDLES
6431	NP_078832.1	249	YENKSFLFLGCGWTVDDTTFQ
6432	NP_078837.3	20	ESNLFKRILKCYEQKYKNGL
6433	NP_078837.3	33	QKQYKNGLKFCMILSNPKFA
6434	NP_078837.3	58	TLAMKGLTLNCLGKKEEAYEF
6435	NP_078837.3	221	EHIEMYEKQICDKLLVEEIKG
6436	NP_078837.3	356	VTNYEASLKTCDFFSPYENGE
6437	NP_078837.3	448	DTADRFINSKCAKYMILRANMI
6438	NP_078837.3	465	ANMIKEAEEMCSKFTREGTSA
6439	NP_078837.3	484	SAMENLNEMQCMWFQTECISA
6440	NP_078837.3	491	EMQCMWFQTECISAYQRLGRY
6441	NP_078837.3	508	LGRYGDALKKCHEVERHFFEI
6442	NP_078837.3	711	INSNPNWLHECLIRFSKSVSN
6443	NP_078837.3	816	EALLDGSFGNCSSQYEEYRMA
6444	NP_078837.3	827	SSQYEEYRMACHNLLPFTSAF
6445	NP_078880.2	155	KQGKYDEAIDCYTKGMDADPY
6446	NP_078880.2	190	LKKFAVAESDCNLAVALNRSY
6447	NP_078934.3	95	LTALQRETEHCVSLSLAQLSA
6448	NP_078934.3	222	TLIPIDEAKACEALEALDELL
6449	NP_078934.3	250	TPYLSEVLTFCLEVARNVALG
6450	NP_078934.3	269	LGNAIRIRILCCLTFLVKVKS
6451	NP_078934.3	350	LALHLPPEKLCPLMPMLEEA
6452	NP_078934.3	483	VQPYLPELMECMLQLLRNPSS
6453	NP_078934.3	566	GEPMRPLAECCQLGLGLCDQ
6454	NP_078934.3	567	EPMRPLAECCQLGLGLCDQV
6455	NP_078934.3	574	ECCQLGLGLCDQVDDPDLRR
6456	NP_078934.3	585	DQVDDPDLRRCTYSLFAALSG
6457	NP_078934.3	677	NAFFDEKEDTCAAVGEISVNT
6458	NP_078934.3	726	AAHEALGQFCCALHKACQSCP
6459	NP_078934.3	732	GQFCCALHKACQSCPSEPNTA
6460	NP_078934.3	782	LEALTGVLRSCGTLTLKPPGR

6461	NP_078934.3	797	LKPPGRLAELCGVLKAVLQRK
6462	NP_078934.3	810	LKAVLQRKTACQDTDEEEEEEE
6463	NP_078934.3	864	FFAGFLPLLVCCKTKQGCTVAE
6464	NP_078934.3	870	PLLVCCKTKQGCTVAEKSFAVG
6465	NP_078934.3	962	ERHDRVRDNICGALARLLMAS
6466	NP_078938.2	121	HKILGNFTFGMVCVLQDFEALTP
6467	NP_078938.2	197	FILSLASCKKCLVIDDQNLIL
6468	NP_078938.2	254	DTQPVGVLVDCCKTLDQAKAV
6469	NP_078938.2	255	TQPVGVLVDCCKTLDQAKAVL
6470	NP_078938.2	486	AVEKWLNLDLCLDCLNITRIV
6471	NP_078938.2	489	KWLNLDLCLDCLNITRIVSGC
6472	NP_078938.2	505	IVSGCPLPEACELYYVNRDTL
6473	NP_078938.2	558	LSDAPAHHLFCLLPVPPTQN
6474	NP_078938.2	580	LPEVLAIVQVCLEGEISRQSI
6475	NP_078938.2	658	LQMYEGRFPCEEEKVLETPQ
6476	NP_078938.2	746	TPNDLTGEHSCIMLKTLTDED
6477	NP_078983.1	121	IGVQAEALLRCSDIISYTFKP
6478	NP_078994.3	107	EVWDVVDKGGKCKKRGDGLKME
6479	NP_078994.3	140	DAEFLDVYKNCNGVMMFDIT
6480	NP_078994.3	172	LPKVPTHVPVCVLGNYRDMGE
6481	NP_078994.3	347	PPSEALPPPACPSAPAPRRSI
6482	NP_079058.1	97	AAHPSEATFSCDCVADALILR
6483	NP_079058.1	123	SGLPFYWNFHCMLASPLVSQ
6484	NP_079058.1	148	PLMGMSLALQCQVRELATLLH
6485	NP_079058.1	202	QFMIEKLPEACSIGDGKPFVM
6486	NP_079058.1	253	SASLQGIDSQCQVNPQELVSS
6487	NP_079092.2	115	KQERQQQQDCEEKERELGRL
6488	NP_079092.2	327	QEGLRRSNEDCAKQMQVLLAQ
6489	NP_079092.2	372	QMAELVTTHKCLHHEVKRLNE
6490	NP_079092.2	422	SSVPELQQLLCCCTRQEARARL
6491	NP_079092.2	423	SVPELQQLLCCCTRQEARARLQ
6492	NP_079120.1	35	FDWGPGEMLVCETSFNKKEKS
6493	NP_079120.1	51	KKEKSEMVPSCPFIYIRKDV
6494	NP_079120.1	112	SKNYRSVIRACMEEMHQVAIA
6495	NP_079120.1	149	LSAMELIWNLCIEILFIEVAPA
6496	NP_079120.1	230	ADASPASAGICRIMGDLMRM
6497	NP_079120.1	265	ELKWQHWHHEECERYLQDSTFA
6498	NP_079120.1	364	EFDIHQVIKECSIALSNWWFV
6499	NP_079120.1	384	VAHLTDLLDHCKLLQSHNLYF
6500	NP_079120.1	427	WQLGVDFYDYCPDELGRVSLEL
6501	NP_079120.1	457	EQKALKVLRICEQRQMTQVR
6502	NP_079120.1	470	RQMTEQVRSICKILAMKAVRN
6503	NP_079120.1	511	LVSDRFLRDYCERGCFSDDL
6504	NP_079120.1	515	RFLRDYCERGCFSDDLIDNL
6505	NP_079120.1	603	SAEQTYELMRCLEDLTSRRPV
6506	NP_079351.2	38	NLLVKSFIKWCNSGSQEEGYS
6507	NP_079351.2	60	YQRMLSTLSQCEFSMGKTLV
6508	NP_079351.2	102	IAGAHEKIAECKKQILQAKRI
6509	NP_079353.3	89	QCIEERYKAVCHAARTRSILS
6510	NP_079353.3	104	TRSLSLGLACFKRQPKGEH
6511	NP_079353.3	127	LAQVFNLTLCEEYVIEPKS
6512	NP_079353.3	219	ESLGTFTADLCEMPAGIYDT
6513	NP_079353.3	251	ASYLEYAFRK CERENGKQRAA
6514	NP_079353.3	271	AGSPHLTLEFCNYPSSMRDHI
6515	NP_079353.3	285	SSMRDHIDYRCCLPPATHRPH
6516	NP_079353.3	286	SMRDHIDYRCCLPPATHRPH
6517	NP_079353.3	300	ATHRPHPTSICDNFSAYGWCP
6518	NP_079353.3	309	ICDNFSAYGWCPPLGPQCPQSH
6519	NP_079353.3	315	AYGWCPPLGPQCPQSHDIDLI
6520	NP_079353.3	463	YVEVSQGPQPCSSGPWLPECH
6521	NP_079353.3	472	PCSSGPWLPECHNKVYLSGKA
6522	NP_079434.3	81	RRATGNLSASCGSALRAAAGL
6523	NP_079434.3	107	GDGTARAASKCQMMEERANLM
6524	NP_079434.3	155	LQQFFVMEHCLKHGLKVKKS
6525	NP_079434.3	184	FGPLELVEKLCPEASDIATSV
6526	NP_079434.3	267	VGLNVLDANLCLKGEDLDSQV
6527	NP_079434.3	320	YVEELNRHLSCTVGDQLTKID
6528	NP_079434.3	544	QLQLSQLHEQCSSLEKELKSE
6529	NP_079434.3	648	AWLKDEATHCRQCEKEFSIS
6530	NP_079434.3	651	KDDEATHCRQCEKEFSISRRK
6531	NP_079434.3	695	YKPVVRVCDSCHTLLLQRCSS
6532	NP_079434.3	703	DSCHTLLLQRCSSSTASXXXXX
6533	NP_079472.1	28	LSLRPSRLLCTATKQKNSGQ
6534	NP_079472.1	108	EAKLYGIQAFCKDLLEADV
6535	NP_079483.3	43	GSTRTPALPHCLFWLLQVPST
6536	NP_079483.3	65	DPLFPYGYQPQCPVDLAGPPCL

6537	NP_079483.3	74	QCPVDLAGPPCLRPLFGGLGG
6538	NP_079483.3	136	HTQDTNTFFLCRTLRLSLGVQV
6539	NP_079483.3	147	RTLRLSLGVQVCRVSVVPDEVA
6540	NP_079483.3	338	DSEEEGPLLEECLAYLTARLPQ
6541	NP_079483.3	400	SLAQYSLTQLCVGFNGGKDC
6542	NP_079483.3	409	LCVGFNGGKDC TALLHLFHAA
6543	NP_079483.3	496	MGTRRTDPYSCSLCPFSPDTP
6544	NP_079483.3	499	RRTDPYSCSLCPFSPDTPGWP
6545	NP_079483.3	561	ENTVRNPALKCLSPGGHPTYR
6546	NP_079491.2	25	WTLRLGPRPSCSPRMAGNAEP
6547	NP_079491.2	42	NAEPPPAGAACPQDRRSCSGR
6548	NP_079491.2	49	GAACPQDRRSCSGRAGGDRVW
6549	NP_079491.2	142	EDMRKMSFQRCARTDKGVSA
6550	NP_079491.2	196	VTGGFN SKNRCDARTYCYLLP
6551	NP_079491.2	202	SKNRCDARTYCYLLPTFAFAH
6552	NP_079491.2	238	TLQQVNRL LACYKGT HNFHNF
6553	NP_079491.2	268	SACRYILEMYCEEPFVREGLE
6554	NP_085153.1	58	LYSSVLYLFTCLIVYLWYLPD
6555	NP_085153.1	276	DGPQNR YALICQQCF SHNGMA
6556	NP_085153.1	279	QNR YALICQQCF SHNGMALKE
6557	NP_085153.1	298	KEEF EYIAFR CAYCF FLNPAR
6558	NP_085153.1	301	FEYIAFR CAYCF FLNPARKTR
6559	NP_110379.2	125	TSVISGYRLACKEAVRYINEN
6560	NP_110379.2	218	SMLISGYALNCVVGSGMPKR
6561	NP_110379.2	236	PKRIVNAK IACLD FSLQKTKM
6562	NP_110379.2	296	ILTTGG IDDMCLKYFVEAGAM
6563	NP_112552.1	132	QLPLESDAVECLNYQHYKGS
6564	NP_112552.1	205	IGGKPD RVVECIKI ILLDISE
6565	NP_113619.2	65	VPAELPIEDLCSLTSQSLPIE
6566	NP_113619.2	141	RDYLSGFQE QCDAILNDVNSA
6567	NP_113619.2	176	SNKTGT LHEACEQLLKEQSEL
6568	NP_113619.2	232	FIPMLAKLDDCITYISSHPNF
6569	NP_113619.2	255	YPIYLLKFKQCLSKALHMK
6570	NP_113619.2	334	YQQLLNDI HQCYLDQRELLG
6571	NP_113619.2	363	ELTSQN NRDH CALVRSGCAF
6572	NP_113619.2	370	RDHCALVRSGCAF MVHVCQDE
6573	NP_113619.2	377	RSGCAF MVHVCQDE HQLYNEF
6574	NP_113619.2	403	SKLDELLEKLCVSLYD VFRPL
6575	NP_113619.2	564	WYPTVRRTL VCLSKLYRCIDR
6576	NP_113619.2	571	TLVCLSKLYRCIDRAVFQGLS
6577	NP_113619.2	588	QGLSQEALSACIQSLLGASES
6578	NP_113619.2	697	KDVDRHLKSACEQFIQQTKL
6579	NP_113619.2	814	FSPEDIQIIACPSMEQLSLLL
6580	NP_114032.2	289	EDEHFD DTVVCLDTYNCDLHF
6581	NP_114032.2	295	DTVVCLDTYNCDLHFKISRDR
6582	NP_115521.3	10	XMEEELQHSHCVNCSRRCM
6583	NP_115521.3	13	EELQHSHCVNCSRRCMTRPE
6584	NP_115521.3	18	SHCVNCSRRCMTRPEPGISC
6585	NP_115521.3	28	CMTRPEPGISCDLIGCPLVCG
6586	NP_115521.3	37	SCDLIGCPLVCGAVFHSCKAD
6587	NP_115521.3	44	PLVCGAVFHSCKADEHRLCP
6588	NP_115521.3	53	SCKADEHRLCPFERVPCLN
6589	NP_115521.3	60	RLLCPFERVPCLN SDFGCPFT
6590	NP_115521.3	67	RVPCLN SDFGCPFTMARNKVA
6591	NP_115521.3	83	RNKVAEHLEMC PASVVCCTME
6592	NP_115521.3	89	HLEMC PASVVCCTMEWNRWPV
6593	NP_115521.3	90	LEMCPASVVCCTMEWNRWPVS
6594	NP_115521.3	271	SEQNGSSDLLCDLNTSSYDTS
6595	NP_115521.3	284	NTSSYDTSALCNGFPLENICT
6596	NP_115521.3	293	LCNGFPLENICTQVIDQNQL
6597	NP_115521.3	317	SKQSNLTNGDCVASSDGT SKP
6598	NP_115521.3	366	MPDDEGEGELCWKKVDLGDVK
6599	NP_115521.3	396	APSFNFLSNCSWSKPKEDKAV
6600	NP_115521.3	433	IDLITALLFCLGDS PGGRGI
6601	NP_115521.3	483	MVGEIASASACDHANPQLSNP
6602	NP_115521.3	507	QTLGLDLVLECVARYQPKQRS
6603	NP_115521.3	523	PKQRSMFTFVCGQLFRRKEFS
6604	NP_115521.3	555	AGLNGWMEQRCP LAYYGCTYS
6605	NP_115521.3	562	EQRCPLAYYGCTYSQRRCPS
6606	NP_115521.3	570	YGCTYSQRRCPSIQGAKIIH
6607	NP_115521.3	634	IAGFLDGFSLCQLSCVSKLMR
6608	NP_115521.3	638	LDGFSLCQLSCVSKLMRDVCG
6609	NP_115521.3	647	SCVSKLMRDVCGSLLQSRGMV
6610	NP_115521.3	687	EKVWRFSTAFCSVNEWKFADI
6611	NP_115521.3	707	ILSMADHLK KCSYNVVEKREE
6612	NP_115521.3	723	EKREEA IPLPCMCVTR ELTKE

6613	NP_115521.3	725	REEAIP LPCMCV TRELTK EGR
6614	NP_115649.1	46	SVYVGLNAALCGLIANSIFRR
6615	NP_115649.1	85	PFLT TDLTYRCFVSFPLNTGD
6616	NP_115649.1	98	SFPLNTGDLDCETCTITRSGL
6617	NP_115675.1	25	AVAEDGGLKKCKISSYCRSQP
6618	NP_115675.1	51	SGEEHFSKKKCLAWFYEYAGP
6619	NP_115675.1	74	VVGPEGMEKFCEDI GVEPENI
6620	NP_115675.1	115	EWLKGMTSLQCDCTEKLQNKF
6621	NP_115675.1	117	LKGMTSLQCDCTEKLQNKDFD
6622	NP_115700.1	76	GLEPPP GKRECRVGVVVDLT
6623	NP_115700.1	184	RNHLLPDIVTCVQSSRXXXX
6624	NP_115710.2	35	PYQILLDGTFCQAALRGRIQL
6625	NP_115710.2	60	PRYLMGETQLCTTRCVLKELE
6626	NP_115710.2	64	MGETQLCTTRCVLKELETLGK
6627	NP_115710.2	86	LYGAKLIAQKQVRNCPHFKN
6628	NP_115710.2	91	LIAQKQVRNCPHFKNVSGS
6629	NP_115710.2	103	HFKNVSGSECLLSMVEEGNP
6630	NP_115766.3	118	NYLFGERLLECHFMPPEKVHK
6631	NP_115784.1	52	LERYSERIWTCKSTGSSQLTH
6632	NP_115784.1	120	IMTKYAVGEECDFEVGKEKML
6633	NP_115784.1	338	LSSPLNPKLWCHVHLKSLSG
6634	NP_115784.1	497	DREDKRSALSCVISKTARLLS
6635	NP_115784.1	619	DVAMVVEFLSCYSGLLLPDAQ
6636	NP_115784.1	695	LHSVSELVRLCLRRSDVQEEES
6637	NP_115784.1	753	EKQLQILTALCHRILMTYSVQ
6638	NP_115784.1	941	DSIDYRFNHCKDHTVSGDED
6639	NP_115784.1	953	DHTVSGDEDYCPRSKKANLGK
6640	NP_115784.1	994	PKQGQNLWFLCDSQKELDELL
6641	NP_115784.1	1006	SQKELDELLNCLHPQGIRESQ
6642	NP_115784.1	1045	ARKPNLGLKSCDGNQELLNFL
6643	NP_115784.1	1096	SLEKLDKDFGECVIALQASVIK
6644	NP_115784.1	1175	MHVLLGMLDACIKWMSAENA
6645	NP_115784.1	1187	KWMSAENARCKVCRKKGEDD
6646	NP_115784.1	1190	MSAENARCKVCRKKGEDDKLI
6647	NP_115784.1	1202	KKGEDDKLILCDECNKAFHLF
6648	NP_115784.1	1205	EDDKLILCDECNKAFHLFCLR
6649	NP_115784.1	1213	DECNKAFHLFCLRPALYEVDP
6650	NP_115784.1	1393	PMDFQTVQNKCSGYSYRSVQE
6651	NP_115784.1	1395	DFQTVQNKCSGYSYRSVQEF
6652	NP_115784.1	1428	YNCRGSHVLSMVKTEQCLVA
6653	NP_115784.1	1435	VLSCMVKTEQCLVALLHKHLP
6654	NP_116021.2	118	HTKGADIDALCVAPRHVDRSD
6655	NP_116021.2	160	EEAFVVPVIKLCFDGIEIDILF
6656	NP_116021.2	197	DSLLKNLDIRCIRSLNGCRVT
6657	NP_116021.2	204	DIRCIRSLNGCRVTDEILHLV
6658	NP_116021.2	293	NPVLLKQPEECNLNLPVWDPR
6659	NP_116021.2	677	EEDETS EDANCLALS GHDKTE
6660	NP_116167.3	90	LFKLTDLKSLCSRGMYYGRDV
6661	NP_116167.3	103	GMYGRDVNVCRCVNGKKKVL
6662	NP_116167.3	105	YGRDVNVCRCVNGKKKVLNK
6663	NP_116258.2	32	GYKLSLEPLPCYQLELDAAVA
6664	NP_116258.2	67	HAFGMYNYLHCDSWYQDSVYY
6665	NP_116258.2	116	TDLTACDNRLCASIHFSSTW
6666	NP_116258.2	402	NPNPDKEKPPCNAQELEECDI
6667	NP_116258.2	410	PPCNAQELEECDIFFEESSSL
6668	NP_116258.2	421	DIFFEESSSLCRFDGNTLKT
6669	NP_116258.2	454	SVIVDPKEMPCFLRHDVDAL
6670	NP_116258.2	456	IVDPKEMPCFLRHDVDALLW
6671	NP_116258.2	501	ASKRDKKFFACAPNYSYAALC
6672	NP_116258.2	511	CAPNYSYAALCECLRRVFIYR
6673	NP_116258.2	513	PNYSYAALCECLRRVFIYRQP
6674	NP_116559.1	129	KSLCYQLPALCSDGFTLVICP
6675	NP_116559.1	138	LCSDGFTLVICPLISLMEDQL
6676	NP_116559.1	224	TRIAVDEVHCCSQWGHDFRPD
6677	NP_116559.1	270	HVLTDAQKILCIEKCFFTAS
6678	NP_116559.1	274	DAQKILCIEKCFFTASFNRP
6679	NP_116559.1	321	RYKGQSGIIYCFSQKDSEQVT
6680	NP_116559.1	414	RAGRDDMKADCILYGFDFIF
6681	NP_116559.1	447	QQKLYEMVSYCQNI SKCRRVL
6682	NP_116559.1	453	MVSYCQNI SKCRRV LMAQHFD
6683	NP_116559.1	471	HFDEVWNSEACNMCDNCKKD
6684	NP_116559.1	475	VWNSEACNMCDNCKKDSAFE
6685	NP_116559.1	478	SEACNMCDNCKKDSAFERKN
6686	NP_116559.1	479	EACNMCDNCKKDSAFERKNI
6687	NP_116559.1	493	AFERKNITEYCRDLIKILKQA
6688	NP_127460.1	86	FLHPCEDDIVCKCTDENKVP

6689	NP_127460.1	88	HPCEDDIVCKCTTDENKVPYF
6690	NP_127492.1	34	TFLMSALESMCKELAKSKAEV
6691	NP_127492.1	46	ELAKSKAEVACIAVYETDVFV
6692	NP_127492.1	80	KDFQKDFVKYCVEEEEKAAEM
6693	NP_127492.1	121	TLRKTVEDYFCFCYKALGKS
6694	NP_127492.1	123	RKTVEDYFCFCYKALGKSTV
6695	NP_127492.1	745	QKVENLNFNEKCGEALGLKQAV
6696	NP_127492.1	903	PYRKITINPGCVVVDGMPPGV
6697	NP_150093.1	238	DSKRFFFDVGCNKYGVFLRVS
6698	NP_150241.2	57	ASEEEFQFLRCQQCQAEAKCP
6699	NP_150241.2	60	EEFQFLRCQQCQAEAKCPKLL
6700	NP_150241.2	66	RCQQCQAEAKCPKLLPCLHTL
6701	NP_150241.2	72	AEAKCPKLLPCLHTLCSGCL
6702	NP_150241.2	77	PKLLPCLHTLCSGCLASGMQ
6703	NP_150241.2	80	LPCLHTLCSGCLASGMQCPI
6704	NP_150241.2	88	SGCLEASGMQCPCICQAPWPLG
6705	NP_150241.2	91	LEASGMQCPCICQAPWPLGADT
6706	NP_150241.2	129	YRQIVDAQAVCTRCKESADFW
6707	NP_150241.2	132	IVDAQAVCTRCKESADFWCFE
6708	NP_150241.2	140	TRCKESADFWCFECEQLLCAK
6709	NP_150241.2	143	KESADFWCFECEQLLCAKCFE
6710	NP_150241.2	148	FWCFECEQLLCAKCFEAHQWF
6711	NP_150241.2	151	FECEQLLCAKCFEAHQWFLKH
6712	NP_150241.2	189	DGTRKTNNIFCSNPNHRTPTL
6713	NP_150241.2	204	HRTPTLTSIYCRGCSKPLCCS
6714	NP_150241.2	207	PTLTSIYCRGCSKPLCCSCAL
6715	NP_150241.2	338	TGSALVQRMKCYASDQEVLD
6716	NP_150241.2	357	DMHGFLRQALCRLRQEPQSL
6717	NP_150241.2	389	FKVRLQDLSSCITQGKDAAVS
6718	NP_150241.2	479	SNTTTAQKRKCSQTQCPKVI
6719	NP_150241.2	484	AQKRKCSQTQCPKVIKMESE
6720	NP_150241.2	676	LSSMRPILACYKLWGPGLPN
6721	NP_150241.2	754	MAAVLAMRDLRLLLEVSPGPQ
6722	NP_150241.2	777	QHVPFSSSLQCFASLQPLVQA
6723	NP_443087.1	47	NSQNEVNGWTCCLHWACKRNHG
6724	NP_443087.1	52	VNGWTCCLHWACKRNHGQVVS
6725	NP_443087.1	296	ELTYQELLRVCCCELGVNPDQ
6726	NP_443087.1	297	LTQYQELLRVCCCELGVNPDQV
6727	NP_443087.1	298	TYQELLRVCCCELGVNPDQVE
6728	NP_443087.1	358	NAASTLTERPCYNRRASKLTY
6729	NP_443091.1	70	FLAREAFRRACLSSGGTQRDWS
6730	NP_443091.1	196	QLFYTTVLVLCYVIYFTKLLG
6731	NP_443091.1	376	GSGPVLLRSYCLYVLLLAING
6732	NP_443091.1	390	LLLAINGVTECFTFAAMSKEE
6733	NP_443091.1	426	LVLSYLLTRWCGSVGFILANC
6734	NP_443091.1	436	CGSVGFILANCFNMGIRITQS
6735	NP_443091.1	490	GVTAVSEVFLCCEQGWPARLA
6736	NP_443091.1	491	VTAVSEVFLCCEQGWPARLAH
6737	NP_443091.1	508	RLAHIAVGAFCGLGATLGTAFL
6738	NP_443109.2	147	QKQIQSLNKMCSNLLLEKISKE
6739	NP_443109.2	271	ASMHPYQRPSCLGFILAIPLR
6740	NP_443111.4	65	EGNAELSEDICKEYEVMYSSS
6741	NP_443111.4	76	KEYEVMYSSSCETTRNTTGIE
6742	NP_443111.4	122	SAVSTEDLKECLKKQLEFCFS
6743	NP_443111.4	224	EVKGLFKSENCPKVISCEFAH
6744	NP_443111.4	524	EKDNEELTISCPVPADEQTEC
6745	NP_443111.4	534	CPVPADEQTECTSAQQLNMST
6746	NP_443111.4	548	QQLNMSTSSPCAELTALSTT
6747	NP_444505.1	27	IIQLLDDYPKCFIVGADNVGS
6748	NP_444505.1	226	LEGVRNVASVCLQIGYPTVAS
6749	NP_476516.1	529	TDDQDFDHTYCMRKITLRSYV
6750	NP_476516.1	802	ESLTNRNLQTCMEVLEALYDG
6751	NP_510868.1	141	LNLTERKGTQCVQIQELVLR
6752	NP_510868.1	153	EQIQELVLRFCCKNCEKSMVE
6753	NP_510868.1	157	ELVLRFCCKNCEKSMVEQLDK
6754	NP_510868.1	213	LAGAHRNTKPCGKCYFYLLIS
6755	NP_510868.1	216	AHRNTKPCGKCYFYLLISKTF
6756	NP_536348.1	95	LTQGPLPNTCCHFWMVWQOK
6757	NP_536348.1	278	SYMALIEGAKCIKGDSSIQKR
6758	NP_542165.1	63	KPELLRAIVDCGFHPSEVQH
6759	NP_542165.1	75	FEHPSEVQHECIPQAILGMDV
6760	NP_542165.1	87	PQAILGMDVLCQAKSGMGKTA
6761	NP_542165.1	120	VTGQVSVLVMCHTRELAFQIS
6762	NP_542165.1	198	KHIKHFILDECDKMLEQLDMR
6763	NP_542165.1	239	ATLSKEIRPVCRKFMQDPMEI
6764	NP_542165.1	300	VVIFVKSVMQRCIALAQLLVEQ

6765	NP_542397.1	16	EQFANLHIVKCSLGTKEPTYL
6766	NP_542397.1	47	AGKENLVAVLCSNGSIRIYDK
6767	NP_542397.1	89	ANSCDSVYSACTDGTVKCWDA
6768	NP_542397.1	96	YSACTDGTVKCWDARVAREKP
6769	NP_542397.1	125	SNIFISFDINCNDHIICAGTE
6770	NP_542397.1	131	FDINCNDHIICAGTEKVVDDA
6771	NP_542397.1	221	TTCNSISSVSCIGWSGKYKQ
6772	NP_542397.1	234	WSGKGYKQIYCMTHDEGFYWW
6773	NP_542397.1	305	TNKGRIHLMNCSMSGLTHVTS
6774	NP_542397.1	328	GGHAATVRSFCWNVQDSSLT
6775	NP_542409.1	52	AELEANLPCTCKVHFDPNKL
6776	NP_542409.1	64	VHFDPNKLHCFQLTVPDEG
6777	NP_542409.1	100	AYNMVPPKVKCLTKIWHPNIT
6778	NP_542409.1	116	HPNITETGEICLSLLREHSID
6779	NP_542417.2	486	RRMQEERRAACAEKLRLEDEK
6780	NP_542417.2	1023	YSYERVGPTSCRGRGRGEYFA
6781	NP_542417.2	1182	RGGRPPPPQVCPGWSPPAKSL
6782	NP_542417.2	1666	SGDSQVSSGPCSQRSSPDGGL
6783	NP_542417.2	1698	GGSSPLNAVPCGPPGSEPPR
6784	NP_542417.2	1821	PQSKNLDSGHCVPEPSSSGQR
6785	NP_542784.1	8	XXXMGRRPARCYRYCKNKPY
6786	NP_542784.1	12	GRRPARCYRYCKNKPYPKSRF
6787	NP_542784.1	23	KNKPYPKSRFCRGVPDAKIRI
6788	NP_542784.1	71	SSEALEAARICANKYVMKSCG
6789	NP_542784.1	80	ICANKYVMKSCGRDGFHMRVR
6790	NP_542784.1	189	DEFEDMVAKKCLIPDGCYVY
6791	NP_542784.1	195	VAKKCLIPDGCYVYVPSHGP
6792	NP_570853.1	26	QLTEGCGNEACTNEFCASCPT
6793	NP_570853.1	31	CGNEACTNEFCASCPTFLRMD
6794	NP_570853.1	34	EACTNEFCASCPTFLRMDNNA
6795	NP_570853.1	60	LELYKINAKLCDPSPKKGAS
6796	NP_570853.1	85	ENSKGAPNNSCSEIKMNKKGGA
6797	NP_570853.1	117	EKVVYIILELCREREDYSPLI
6798	NP_570853.1	246	ALVYLSPNVECDLTYHNVYSR
6799	NP_570853.1	287	EYLEMALPLFCKAMSKLPLAA
6800	NP_570853.1	416	ETELGVKTLDCRKLPIPFEEF
6801	NP_570853.1	457	ETENKFSFMTCPFILNAVTKN
6802	NP_570853.1	604	IVLGLAIYNNCILDVHFPMVV
6803	NP_570853.1	737	FRPEEIELLICGSRNLDFOAL
6804	NP_612142.2	243	GESIMIGVKPCIDKSVMESSD
6805	NP_612409.1	332	EDGDITDKSLCGSGEKYIPPH
6806	NP_612409.1	408	DTLTSALMGACVTASAMP SRL
6807	NP_612409.1	462	IYKYGSEGKECDNLFTVIAHL
6808	NP_612409.1	661	MNTDIRRNIFCTIMTSEDFLD
6809	NP_612409.1	696	EREI IHVLMDCCLQEKTYNPF
6810	NP_612409.1	697	REI IHVLMDCCLQEKTYNPFY
6811	NP_612409.1	715	PFYAFLASKFCEYERRFQMTF
6812	NP_612409.1	851	LREKADLATKCLQGKASLRMX
6813	NP_612430.2	74	ELDEEMENEICRVWDM SDED
6814	NP_612430.2	107	IFMGVLAKSKCPRLREICVGI
6815	NP_612430.2	123	ICVGILGNMACFQEICVSISS
6816	NP_612430.2	128	LGNMACFQEICVSISSDKNLG
6817	NP_612430.2	144	DKNLGQVLLHCLYDSDPPTLL
6818	NP_612430.2	188	QEHPAIYDSICFIMSSSTNVD
6819	NP_612430.2	248	EEQPVFRLVPCILEAAKQVRS
6820	NP_612430.2	287	VDDGIQAI VHC PDTGKDIWNL
6821	NP_612430.2	303	DIWNLFLDLVCHEFCQSDDPP
6822	NP_612430.2	307	LLFDLVCHEFCQSDDPPIILQ
6823	NP_612430.2	366	LIRVLQNM EQCQK PENS AES
6824	NP_612430.2	401	FHLKILKDILCEFLSNIFQAL
6825	NP_612430.2	430	VKEGQLSKQKCSSAFQNL LPP
6826	NP_612486.2	214	EERSLSKPKTCFTSPPISCV
6827	NP_612486.2	222	KTCFTSPPISCVPSQPSALD
6828	NP_612486.2	244	SPWGLGLPPGCRSLQEEREM
6829	NP_612486.2	270	KQLQQSPTPTCPTPELGSPLP
6830	NP_612486.2	366	ESPLFQSIHDCVFFAVQVLEC
6831	NP_612486.2	376	CVFFAVQVLECHFQVLSNLDK
6832	NP_612486.2	496	RAMMGQLSAACSHSHFVRLFQ
6833	NP_612486.2	513	RLFQQLLQMCQSPGAGGTV
6834	NP_612486.2	559	LMAQSSGGPCPPPTFPGCQG
6835	NP_612486.2	567	GPCPPPTFPGCQGFRRDFILS
6836	NP_612486.2	738	VLSQESEGKMCFLNKL LLLAV
6837	NP_612486.2	798	PVVDQQLLYTCCPYIGELRKL
6838	NP_612486.2	799	VVDQQLLYTCCPYIGELRKL
6839	NP_612486.2	877	EFVAERIGSNVCVKHIKATLVA
6840	NP_612486.2	919	GDPAQLLEILCSQLCPHGAQA

6841	NP_612486.2	937	AQALALGREFCQRKSPGAVRA
6842	NP_612486.2	974	IAVGLATEKACAWLSANITAL
6843	NP_612486.2	1013	EPAARGERRGCSRACEHHAPL
6844	NP_612486.2	1017	RGERRGCSRACEHHAPLPSHL
6845	NP_612486.2	1066	LLGQLGQTLRCRQFLCPPAEQ
6846	NP_612486.2	1071	GQTLRCRQFLCPPAEQHLAKC
6847	NP_612486.2	1081	CPPAEQHLAKCSVELASLLVA
6848	NP_612486.2	1175	GLMGRMEIEACLGSLHQAWP
6849	NP_613075.1	273	HGLPAKFVIHCNSPVWGADKC
6850	NP_613075.1	283	CNSPVWGADKCEELLEKTVKN
6851	NP_620150.1	86	PRFRSMWERYCRGVSIAIVYMV
6852	NP_620150.1	159	LSAIQDREICCYSISCKEKDN
6853	NP_620150.1	164	DREICCYSISCKEKDNIDITL
6854	NP_620305.2	92	DLKEGSRKSRVSVQTDPTDE
6855	NP_620305.2	1283	HEVVPERPVTCMVSETPAMSA
6856	NP_620305.2	1551	IAKEMEHNTVCAAGTSPVGEI
6857	NP_620305.2	2380	KHPVSALMEICNKRRWQPPEF
6858	NP_620305.2	2419	LRNGALTRPNCMFFLNRYXXX
6859	NP_620407.1	40	YIGEGAYGMVCSAYDNVNVKVR
6860	NP_620407.1	65	KISPFHQTYCQRTLREIKIL
6861	NP_620407.1	127	KTQHLSNDHICYFLYQLLRGL
6862	NP_620407.1	166	LLNTTCDLKIICDFGLARVADP
6863	NP_620407.1	254	LGSPSQEDLNCIINLKARNYL
6864	NP_624358.2	188	VSTNISTKHQCITAMKEYESK
6865	NP_624358.2	743	LAKITNEKGECIVSDFITGRK
6866	NP_624358.2	818	GVWPTDKTSRCLIKSPDRLAD
6867	NP_624358.2	1010	PSKADTSQEICSPRLPISASH
6868	NP_624358.2	1051	FLSPSVSVQECRTPRAASLMN
6869	NP_624358.2	1217	KHSTVHVDELCLPIVPLNGVA
6870	NP_624358.2	1259	VKHWSLTWTLCEALWGHKLKEL
6871	NP_624358.2	1330	YLTGKRISEACSLAQQSGDHR
6872	NP_624358.2	1402	QLSEKKQINVCSQLDWKRSLA
6873	NP_624358.2	1447	QNTSDSDRYACSPSPSYLEGS
6874	NP_624358.2	1459	PLPSYLEGSGCVIAEEQNSQT
6875	NP_624358.2	1475	QNSQTPLRDVCFHLLKLYSDS
6876	NP_624358.2	1499	KAVRELLTRHCQLLETPESWA
6877	NP_624358.2	1545	MESDKHLEALCLFKAHEWNRRC
6878	NP_624358.2	1555	CLFKAHEWNRCHKLIIRHLAS
6879	NP_624358.2	1620	EMLRHIQQVDCSGNDLEQLHI
6880	NP_624358.2	1636	EQLHIKVTSLCSRIEQIQCYS
6881	NP_624358.2	1644	SLCSRIEQIQCYSAKDRLAQS
6882	NP_631908.1	249	QPPFFTLDVCEGGGFYIRSLV
6883	NP_631908.1	269	VSDIGKELSSCANVLELTRTK
6884	NP_631908.1	307	IDDIAQSLEHCSSLFPAELAL
6885	NP_659400.2	123	DSLPNFTAADCLRLGLIGRNQ
6886	NP_659400.2	141	RNQYIDLNMQCRSSKKFFRRK
6887	NP_659400.2	185	GYITEDDIKICTLPEKCAVDK
6888	NP_659400.2	232	YLDVPISSDSCIIVPPLEGFV
6889	NP_659400.2	290	SLVKNVSMYCRGLGFAHKKGQ
6890	NP_659400.2	479	NYGFPLDLLRCESLLGLDPAT
6891	NP_659400.2	490	ESLLGLDPATCSRVLNKNYTL
6892	NP_659400.2	517	LTNEIRPVSSCTPQHIGPAIP
6893	NP_659400.2	653	LRNRVDLQHLGCVTMLNASS
6894	NP_659400.2	726	TEADWVPLELCFGIPLFSEL
6895	NP_659400.2	741	LFSSSELNRKVCRKIAAHGLCR
6896	NP_659400.2	750	VCRKIAAHGLCRKESLQNLH
6897	NP_663745.1	34	NGIGRHKTYLCYEVERLDNGT
6898	NP_663745.1	101	RVTWFISWSPCFSWGCAGEVR
6899	NP_663745.1	161	SIMTYDEFKHCWDTFVDHQGC
6900	NP_663745.1	171	CWDTFVDHQGCPFPQWDGLDE
6901	NP_680477.1	90	SRAFGSPYLACYSLSVTILLL
6902	NP_680477.1	107	ILLLNFLRSHCFTQAMLQPR
6903	NP_689557.1	17	EYFSVGSQVSCRTCQEQLQG
6904	NP_689557.1	43	DYQSKMLALKCPSSSGKPNHA
6905	NP_689557.1	127	FQTIHKTIKDCKWQEKNIIVVM
6906	NP_689557.1	151	VITPPYQVENCKGKEGSALSH
6907	NP_689956.2	28	DPRQPVADDTCLEKLLDWFKT
6908	NP_689956.2	54	SSVLLQEHPCVELLSHVLLK
6909	NP_689956.2	89	LAGTFAAQENCFQYLQOGELL
6910	NP_689956.2	185	SMRGGAEQPCPLPGGDWPACA
6911	NP_689956.2	194	PCLPGGDWPACAQKIMDHVEE
6912	NP_689956.2	207	KIMDHVEESLCSAATPKVTQA
6913	NP_689956.2	228	LNVLTTTFGRCSQPWTEALWV
6914	NP_689956.2	246	LWVRLSPRVACLLERDPIPAA
6915	NP_689956.2	289	LWETVARALSCLGPTHMGPLA
6916	NP_689956.2	308	LALGILKLEHCPQALRTQAFQ

6917	NP_689956.2	361	VDTLASKSSCAGLLCRTLAH
6918	NP_689956.2	366	ASKSSCAGLLCRTLAHLEELQ
6919	NP_689956.2	401	LGATVTVLRLCDGSAAPASSV
6920	NP_689956.2	422	GGHLCGTLAGCVRVQRAALDF
6921	NP_689956.2	456	VTQALAVLLECLESPGSSPTV
6922	NP_689956.2	487	WLLSSPKTPGCSDDLGPLIPQF
6923	NP_689956.2	510	ELFPVLQKRLCHPCWEVRDSA
6924	NP_689956.2	539	RHWGGQADFRCALLASEVPQL
6925	NP_689956.2	673	GQTLGPPTHCPYAVALEPEVA
6926	NP_689956.2	696	QPLTEALRALCHVGLFDFAFD
6927	NP_689956.2	706	CHVGLFDFAFDCAFDICDRPVA
6928	NP_689956.2	711	FDFAFCALFDICDRPVAQKSCD
6929	NP_689956.2	720	DCDRPVAQKSCDLLLFLRDKI
6930	NP_705618.1	102	ELVEQFGHMQCNCMMGVFPPI
6931	NP_705618.1	104	VEQFGHMQCNCMMGVFPPIISR
6932	NP_705618.1	234	GRIFLAGKDGCLYEVAQAEA
6933	NP_705618.1	251	QAEAGWFSQRCKINHSKSSL
6934	NP_705618.1	356	AVIENSESLDCQLLAVTHAGV
6935	NP_705618.1	373	HAGVRLYFSTCPFRQLARPN
6936	NP_705618.1	433	SENEENDILWCVNHDTFFQK
6937	NP_705618.1	548	FFKLHQEDQACATCLILACST
6938	NP_705618.1	551	LHQEDQACATCLILACSTAAC
6939	NP_705618.1	556	QACATCLILACSTAACDREVS
6940	NP_705618.1	561	CLILACSTAACDREVSAAWATR
6941	NP_705618.1	637	IQPPAMSTPVCALGNPATQAT
6942	NP_705618.1	651	NPATQATNMSCVTGPEIVYSG
6943	NP_705618.1	667	IVYSGKHNGICIFYSRIMGNI
6944	NP_705618.1	704	EITAISSVPCQLLESVLQEL
6945	NP_705618.1	799	YQALALWKLCEHQFTIIVAE
6946	NP_705618.1	844	TGALIASLINCYIRDNAAVDG
6947	NP_705618.1	863	DGISLHLQDICPLLYSTDDAI
6948	NP_705618.1	874	PLLYSTDDAICSKANELLQRS
6949	NP_705618.1	917	ISNQVDLSNVCAQYRQVRFYE
6950	NP_705618.1	974	AFQERLNSYKCIDTTLQELVN
6951	NP_705618.1	1201	EFADPFKLAECKLAIHHCAGY
6952	NP_705618.1	1208	LAECKLAIHHCAGYSDPILVQ
6953	NP_705618.1	1276	FIVQFLEQQVCTLNWDVGFVI
6954	NP_705618.1	1326	RMKKPLHLLDCIHVLLIRYVE
6955	NP_705618.1	1353	NCERRRFTNLCLDAVCGYLVE
6956	NP_705618.1	1358	RFTNLCLDAVCGYLVLEQSMS
6957	NP_705931.1	123	SSSGLASSKACVGNAYHKQLA
6958	NP_705931.1	137	AYHKQLAALNCSVRDWIVKHV
6959	NP_705931.1	153	IVKHVNTNPLCDLTPIFKDYE
6960	NP_705931.1	335	KEEDAFYSKCKLFYKKNDEF
6961	NP_705931.1	388	LNVLIPPMPCTRTGKNNVLI
6962	NP_705931.1	400	RTGKNNVLIVCPNPPIDEKN
6963	NP_722517.3	166	IPISYEQIYSCVYKVCVQHS
6964	NP_722517.3	170	YEQIYSCVYKVCVQHSQMY
6965	NP_722517.3	172	QIYSCVYKVCVQHSQMYSD
6966	NP_733765.1	447	VGEATETALTCLVEKMNVDFT
6967	NP_733765.1	1005	KECVQPATKSCSFSACTDGIS
6968	NP_733765.1	1010	PATKSCSFSACTDGISWPFVL
6969	NP_733821.1	570	DLLHHHGHSHCSSSGDPAEYN
6970	NP_733821.1	591	LRSRVLCGTCGQPADKASAS
6971	NP_775083.1	219	AIDALSSDFTCGSPTAAGKKT
6972	NP_775083.1	359	ELSEDFDRSECKEKPSKPTK
6973	NP_775083.1	654	ETSQNTAKDKCKKAASSKAP
6974	NP_775838.3	7	XXXXMARLRDCLPRLMLTLRS
6975	NP_775838.3	26	RSLLFWSLVYCYCGLCASIHL
6976	NP_775838.3	28	LLFWSLVYCYCGLCASIHLLK
6977	NP_775838.3	62	RRPAREHPPACLSDPSLGTHC
6978	NP_775838.3	72	CLSDPSLGTHCYVRIKDSGLR
6979	NP_775838.3	146	PIHRQNYKLDCLITDIKDILD
6980	NP_775838.3	163	DILDSDLGYSKCVLIGHDWGGM
6981	NP_775838.3	181	GGMIAWLIACYPEMVMKLIIV
6982	NP_775838.3	254	SHSTGIGRKGCLTTEDLEAY
6983	NP_775882.2	52	GLSSPEFSELCIWLGSQIKSL
6984	NP_775882.2	63	IWLGSQIKSLCNLEESITSAG
6985	NP_775882.2	93	EISGFLKEMACPYSVLISGDI
6986	NP_775882.2	220	INDALSCEYECRRRMLMKRLD
6987	NP_777567.1	30	EVCPVLDQFLCHVAKTGETMI
6988	NP_777567.1	105	NGIPFTIQRLLCELLTDPRRNY
6989	NP_777567.1	134	GVEKNVMVVCVYPSSEKNNS
6990	NP_777567.1	291	SSQDKDKDSRCTRQHCTEEDE
6991	NP_777573.1	123	LLGFSPKPLCRVWAALRSNL
6992	NP_777573.1	138	ALRSNLRVACHRCGVHVLQS

6993	NP_777573.1	141	SNLRTVACHRCGVHVLQSALL
6994	NP_777573.1	191	ELVVLGLAAEVCDDFLVYCGDT
6995	NP_777573.1	198	AEVCDDFLVYCGDTHGSFVVR
6996	NP_777573.1	280	VFITDKLSSFCLQVALQVLHR
6997	NP_777573.1	296	QVLHRKLPQFCAHLCAVIGY
6998	NP_777573.1	300	RKLPQFCAHLCAVIGYSTR
6999	NP_777573.1	412	PGVVIALVGACRRVGAYQAKV
7000	NP_777573.1	432	VLQLLLEAFHCAEPSSRQVAC
7001	NP_777573.1	442	CAEPSSRQVACVPLFATLMAY
7002	NP_777573.1	557	NLKGQYVALACSRHGSRVLDA
7003	NP_777576.1	86	WYLFGEPPDICLEKCLKHSGAF
7004	NP_777576.1	99	CLKHSGAFQLCGRVFKSGETT
7005	NP_777576.1	180	RAGTIKENSRCPLNEEVIVQA
7006	NP_777576.1	279	RAVKAGAYAACQEAKEDIKSH
7007	NP_777576.1	339	SDFRQIFCQACLREEPDSENP
7008	NP_777576.1	350	LREEPDSENPCLISRLMLWDA
7009	NP_777576.1	477	DKLGRVYAVICDLKYILISKP
7010	NP_777576.1	555	ILLMFQEWACDEELLVAYK
7011	NP_777576.1	574	YKECHKAVMRCSTSFSSSKT
7012	NP_777576.1	589	ISSSKTVVQSCGHSLETKSYR
7013	NP_777576.1	777	VTMRELIHLLCIEPMPHSAIA
7014	NP_777576.1	884	AFSKVINLLNCDIMMYILRTV
7015	NP_777576.1	1101	TEKEVLTCLCQEEQEVKIEN
7016	NP_777576.1	1119	IENNAMVLSACVQKSTALTQH
7017	NP_777576.1	1204	EYLCPLCKSLCNTVIPPIPLQ
7018	NP_777576.1	1369	MQFAVAQRITCPQVLIQKHLV
7019	NP_777576.1	1490	ISQYTSGSIGCDIPGWYLVVS
7020	NP_777576.1	1569	DTVRPLLQRWCADPALLNCLK
7021	NP_777576.1	1577	RWCADPALLNCLKQKNTVVRY
7022	NP_777576.1	1665	FHALHCGAGVCIFLKIRECRV
7023	NP_777576.1	1726	RKLHLVWQQHCIEEARSQE
7024	NP_783863.4	32	PPGKMPPEPCELEERFALVL
7025	NP_783863.4	68	YDNEKKWDLICDQERFQVKNP
7026	NP_783863.4	148	VLVDYLSFAQCSVMFDFEGLE
7027	NP_783863.4	227	LVSQKDDVHVCILCLRAIMNY
7028	NP_783863.4	230	QKDDVHVCILCLRAIMNYQYG
7029	NP_783863.4	297	LAAFDNFKEVCKELHRFEKLM
7030	NP_783863.4	323	EDSNIDFMVACMQFINLVVHS
7031	NP_783863.4	469	KEKEEAFQRRCHLEPNVRGLE
7032	NP_783863.4	662	RKAGRSAEEICRAIHTFDLQT
7033	NP_783863.4	680	LQTLPVDFVECLMRFLPTEAE
7034	NP_783863.4	862	GRGMELIRRECSIHDNSVLRN
7035	NP_783863.4	1002	TIEDIITGLHCQPMVVRHQAR
7036	NP_786924.2	46	AVLGGSDSEKCSYSQGSVKRQ
7037	NP_786924.2	61	GSVKRQALYACSTCTPEGEEP
7038	NP_786924.2	64	KRQALYACSTCTPEGEEPAGI
7039	NP_786924.2	75	TPEGEEPAGICLACSYECHGS
7040	NP_786924.2	78	GEEPAGICLACSYECHGSHKL
7041	NP_786924.2	82	AGICLACSYECHGSHKLFELY
7042	NP_786924.2	99	FELYTKRNFRCDCGNSKFKNL
7043	NP_786924.2	101	LYTKRNFRCDCGNSKFKNLEK
7044	NP_786924.2	111	CGNSKFKNLECKLLPDKAKVN
7045	NP_786924.2	135	KYNDNFFGLYCICKRPPDPPE
7046	NP_786924.2	137	NDNFFGLYCICKRPPDPPEDE
7047	NP_786924.2	155	EDEIPDEMIQCVCEDWFHGR
7048	NP_786924.2	158	IPDEMIQCVCEDWFHGRHLG
7049	NP_786924.2	182	PESGDFQEMVCQACMKRCSFL
7050	NP_786924.2	185	GDFQEMVCQACMKRCSFLWAY
7051	NP_786924.2	189	EMVCQACMKRCSFLWAYAAQL
7052	NP_786924.2	286	ESLNAESKSGCKLQELKAKQL
7053	NP_786924.2	314	YWPLNWRSKLCTCQDCMKMYG
7054	NP_786924.2	316	PLNWRSKLCTCQDCMKMYGDL
7055	NP_786924.2	319	WRSKLCTCQDCMKMYGDLVVL
7056	NP_787048.1	87	RQLEDILSTYCVDNNQGGPGE
7057	NP_787048.1	373	LKEAVESQRMCELMKQOETHL
7058	NP_787082.1	41	VTKKFSNQETCVEIDESVRGE
7059	NP_787082.1	265	GPAISRINTACFEAVVVTINTI
7060	NP_789839.1	133	KPEIRLLIEKNTPSGKGPPI
7061	NP_789839.1	144	NTPSGKGPPICFDLQVKMWVQ
7062	NP_808816.1	21	TAGLVIGAGACYCIYRLTRGR
7063	NP_808816.1	23	GLVIGAGACYCIYRLTRGRKQ
7064	NP_808816.1	208	RRLKVYMNQVCDDTITRSLNS
7065	NP_808816.1	343	LFFFLEKQVQCADKVLGIESH
7066	NP_817092.1	13	AYLSQPNTVKCSGDGVGAPRL
7067	NP_817092.1	45	WRVSMEDAHNCIPELDSETAM
7068	NP_817092.1	164	EELLTRYGQNCHKGPPHSGSG

7069	NP_817092.1	351	LIVANAGDSRCVVSEAGKALD
7070	NP_817092.1	440	TDDHEFMVIACDGIWNVMSSQ
7071	NP_817092.1	483	SSIVEELLDQCLAPDTSGDGT
7072	NP_817092.1	495	APDTSGDGTGCDNMTCI I ICF
7073	NP_817092.1	500	GDGTGCDNMTCI I ICFKPRNT
7074	NP_817092.1	504	GCDNMTCI I ICFKPRNTAELQ
7075	NP_852118.1	92	LLEKAETEQQCLSILKZENIKM
7076	NP_852118.1	257	IHQEEVKELMCQIEASAKEHE
7077	NP_852118.1	297	SEKNIQKKYECELENLRKATS
7078	NP_852118.1	316	TSNANQDNQICSILLQENTFV
7079	NP_852118.1	399	ELLLAKEEQGCVIEKLSSELA
7080	NP_852118.1	416	SELAGLNKQFCYTVEQHNREV
7081	NP_852118.1	617	HEEMDNFHKKCEREERLILEL
7082	NP_852118.1	826	KCLQEESVQCEELKSLLRDY
7083	NP_852118.1	889	LIQVEEVSQTCSKSEIHNEKE
7084	NP_852118.1	901	KSEIHNEKEKCFIKEHENLKP
7085	NP_852118.1	960	EKIEENLEKECKEKEEKINKI
7086	NP_852118.1	1061	TRQLRNSTLQCETINSDNEDL
7087	NP_852118.1	1412	SKEAELREKLCISIQSENMMMK
7088	NP_859069.2	249	RGWSPPLAPGCYQLLLYQAGR
7089	NP_859069.2	260	YQLLLYQAGRCQPSNCRRCPG
7090	NP_859069.2	265	YQAGRCQPSNCRRCPGAYRAL
7091	NP_859069.2	268	GRCQPSNCRRCPGAYRALRGL
7092	NP_859069.2	305	LLPGARLEGRCPPTNARVRCH
7093	NP_859069.2	314	RCGPTNARVRCHLGLKIPPGC
7094	NP_859069.2	324	CHLGLKIPPGCELVVGGEPOC
7095	NP_859069.2	334	CELVVGGEPOCWAEGHCLLVD
7096	NP_859069.2	340	GEPQCAEGHCLLVDDSFLLHT
7097	NP_862820.1	10	XMATSSMSKGCVFVKPNSKKR
7098	NP_862820.1	141	PYVVSILQAKDCPDMKHFLQKL
7099	NP_862820.1	158	LQKLISQLMDCCVDIKSKEEE
7100	NP_862820.1	159	QKLISQLMDCCVDIKSKEEES
7101	NP_862820.1	345	HFYSQPLSVLCCNLPEAKRRI
7102	NP_862820.1	346	FYSQPLSVLCCNLPEAKRRIN
7103	NP_862820.1	363	RRINFLSNNQCENIRRLPSFR
7104	NP_862820.1	418	YHMNYFLVLRCLHKFTSSLPK
7105	NP_862820.1	440	PLGRQIRELYCTCLEKNIWDS
7106	NP_862820.1	442	GRQIRELYCTCLEKNIWDSEE
7107	NP_862820.1	475	KDELMTILEKCFKVFKSYCEN
7108	NP_862820.1	483	EKCFKVFKSYCENHLGSTAKR
7109	NP_862820.1	622	KNEALKSEEGCIPNIAPDICI
7110	NP_862820.1	631	GCIPNIAPDICIAYKHLHLECS
7111	NP_862820.1	640	ICIAYKHLHLECSRLINLVDWS
7112	NP_886552.2	21	PVLNRRWSRLCCLKQYLFTMK
7113	NP_886552.2	363	SREPDATTRVCELLKYQGEHC
7114	NP_886553.3	386	SSPELAPPPACPSESPVPIAP
7115	NP_886553.3	820	PNFSVAYANMCRCLMALKVPT
7116	NP_886553.3	822	FSVAYANMCRCLMALKVPTTE
7117	NP_886553.3	848	VNFRKLLLNRCQKEFEKDKDD
7118	NP_886553.3	920	KMLTEAIMHDCVVKLLKNHDE
7119	NP_886553.3	935	LKNHDEESLECLCRLLTTIGK
7120	NP_886553.3	1266	HLNDMKEAVQCVQELASPSLL
7121	NP_886553.3	1307	HMGQLLHQLLCAHGLSTAQYY
7122	NP_886553.3	1385	SLLLEILGLLCKSMGPKKVGT
7123	NP_886553.3	1488	TLVRALMTAVCYSAIIFETPL
7124	NP_891552.1	20	KRPQFSPTGDCQAEAAAAANG
7125	NP_891552.1	57	LQHPSAEVREACAGLARLVQ
7126	NP_891552.1	59	HPSAEVREACAGLARLVQQR
7127	NP_891552.1	109	AAGALRNLSACGGFEVCDDMV
7128	NP_891552.1	115	NLSACGGFEVCDDMVTKDIMT
7129	NP_891552.1	134	MTPLVALLKECSAGLDSNEMS
7130	NP_891552.1	171	NETVNVLWNICESSRAVSIF
7131	NP_891552.1	173	TVNVLWNICESSRAVSIFNK
7132	NP_891552.1	186	RAVSIFNKEGCLIVLKYLSR
7133	NP_891552.1	210	NVDLALSVAYCLQTVTEDNPE
7134	NP_891552.1	266	TIWNLKDIIPCKSQAEIINAL
7135	NP_891552.1	374	QTALEIIVNMCCNEDPSDDEW
7136	NP_891552.1	375	TALEIIVNMCCNEDPSDDEWE
7137	NP_891552.1	404	DAFMENFSFECGGQLFSPCLL
7138	NP_891552.1	413	ECCGGQLFSPCLLSHEVHTALT
7139	NP_891552.1	446	AFPNSIAVDLCSRNPWKPLI
7140	NP_891552.1	469	MNTIQCRALFCLQSLVSLLDV
7141	NP_891552.1	534	QTMASKNISQCMTPDQLMTLC
7142	NP_891552.1	544	CMTPDQLMTLCKAGIHSSNVG
7143	NP_940890.3	57	LATEGAPDFLCPPELEHVSRH
7144	NP_940890.3	218	VRTVAGPTYTCRTGKSFKGHV

7145	NP_940890.3	237	HVKEKFLLVDCAVVMSSGSYSF
7146	NP_940890.3	550	PRPNLTQRFPQAAAARPGPDP
7147	NP_940890.3	590	RWRLASYLSGCHGEDGGDDGL
7148	NP_940890.3	1090	LAPDMSDKDKCSAIFRSDSLG
7149	NP_940890.3	1140	KRVYSRFEVFCCKEEASSPGA
7150	NP_942127.1	122	PHSQAEFEFYVCIYATREGDYV
7151	NP_942127.1	229	AKVDATADYICKVKWGDIEFP
7152	NP_942127.1	293	GASVVYSDTICDLGGVNELAN
7153	NP_942127.1	509	VQGMLDFDYVCSRDEPSVAAM
7154	NP_942127.1	623	PATVGGIKPGCFKIGNTGGML
7155	NP_942127.1	718	EIGGTEEYKICRGIKEGRLTK
7156	NP_942127.1	732	KEGRLTKPIVCWCIGTCATMF
7157	NP_942127.1	734	GRLTKPIVCWCIGTCATMFSS
7158	NP_942127.1	738	KPIVCWCIGTCATMFSEVQF
7159	NP_942127.1	754	SEVQFGHAGACANQASETAVA
7160	NP_942127.1	835	RKPASFMTSICDERGQELIYA
7161	NP_942127.1	877	WFQKRLPKYSCQFIEMCLMVT
7162	NP_942127.1	883	PKYSCQFIEMCLMVTADHGPA
7163	NP_942127.1	903	AVSGAHNTIICARAGKDLVSS
7164	NP_942127.1	1030	GVAFVMDLRNCGSFTREEADE
7165	NP_945314.1	65	SRIWDDGDDFCIFSESRRPSR
7166	NP_945314.1	142	SGEEEDDEPDCCNDERYPAG
7167	NP_945314.1	199	LSRYGFNTERCQAVLRMCDGD
7168	NP_945314.1	206	TERCQAVLRMCDGDVGASLEH
7169	NP_945314.1	221	GASLEHLLTQCFSETFGERMK
7170	NP_945314.1	244	EAVNQISLDECMEQRQEEAFA
7171	NP_945314.1	259	QEEAFALKSICGEKFIERIQN
7172	NP_945314.1	305	KNVQENSLEICKFYLGKNCCKF
7173	NP_945314.1	313	EICKFYLGKNCCKFGSKCRFKH
7174	NP_945314.1	319	LKGNCKFGSKCRFKHEVPPNQ
7175	NP_945314.1	385	YSTNENLPLACRLHISEFLYD
7176	NP_945314.1	453	PSRTRINNPACHKTVIPNSF
7177	NP_945314.1	522	KSVHAENGKICKQFRMKQASR
7178	NP_945314.1	598	GPPEKVANIICTQPRRISAIIS
7179	NP_945314.1	881	SLFNNRRSNRCVIHPLHSSLS
7180	NP_945314.1	1003	EIQRVPLEQLCLRIKILEMFS
7181	NP_945314.1	1146	KEGVRASYNYCRQNFLSGRVL
7182	NP_945314.1	1218	ENPKLISAMLCALYPNVVQV
7183	NP_945314.1	1297	IKTSRVFIRDSCMVSVYPLVL
7184	NP_945314.1	1367	DKIKNPSIDLCTCPRGSRIS
7185	NP_945314.1	1369	IKNPSIDLCTCPRGSRISSTI
7186	NP_958437.1	12	SGGGTETPVGCEAAPGGGSKK
7187	NP_958437.1	94	HETNEHTLPKCRDTRMDSLQ
7188	NP_958782.1	68	RGLVRETFAWCHFYWYLTNEG
7189	NP_958782.1	530	QLRSEFERLECLQRIVTKLQM
7190	NP_958782.1	545	VTKLQMEAGLCEEQLNQADAL
7191	NP_958782.1	730	SPATRGAYRDCLGRDLQYAK
7192	NP_958782.1	849	TQWSWMLQLCCCEIAHLKENA
7193	NP_958782.1	950	MRGRLLAVCDYKQVEVTVH
7194	NP_958782.1	965	VEVTVHKGDECQLVGPAPQPSH
7195	NP_958782.1	1098	RLMAEREYGCSSHYYQQLQS
7196	NP_958782.1	1119	LEQGAQEESRCQRCISELKDI
7197	NP_958782.1	1136	LKDIRLQLEACETRTRVHRLRL
7198	NP_958782.1	1156	LPLDKEPARECAQRIAEQQKA
7199	NP_958782.1	3017	RCVEDPETGLCLLPLPLTKAAK
7200	NP_958782.1	3110	VEEQEQKGRLCFEGRLSLVPA
7201	NP_958782.1	3295	KSHRVPLDVACARGCLDEETS
7202	NP_958782.1	3299	VPLDVACARGCLDEETSRLALS
7203	NP_958782.1	3336	PATYGELQQRCPDQLTGLSL
7204	NP_958782.1	3493	SVRTLQSGSCLAGIYLEDTK
7205	NP_958782.1	4071	NLQKFLEGTSCIAGVFVDATK
7206	NP_958782.1	4454	TGQRLLEAQAQCTGGIIDPSTG
7207	NP_958782.1	4494	DRINLAQKAFCGFEDPRTKTK
7208	NP_958929.1	53	VLQSLSQTIIECLQGGHHEGL
7209	NP_958929.1	489	KLEAAETLEECALRSRRQGTD
7210	NP_963863.2	110	GFYTLQLQELCTVFNVDLPCR
7211	NP_963863.2	119	LCTVFNVDLPCRVKSSQLGII
7212	NP_963863.2	147	SAIVKPKQSSSCSYICQHCLVH
7213	NP_963863.2	151	KPQSSSCSYICQHCLVHLGDI
7214	NP_963863.2	154	SSSCSYICQHCLVHLGDIARY
7215	NP_963863.2	210	GDHLTTIFYYCRSIAVKFFFP
7216	NP_963863.2	327	QHTYSQDEQLCWTQLLALFMS
7217	NP_963863.2	343	ALFMSFLGILCKCPLQNESQE
7218	NP_963863.2	345	FMSFLGILCKCPLQNESQES
7219	NP_963863.2	476	IADNQPRLIQCENEVGKLLFI
7220	NP_963863.2	1128	QSEEEGSSSICVAHRGPRPLP

7221	NP_963863.2	1140	AHRGPRPLPSCSLPASTFRVK
7222	NP_963863.2	1157	FRVKFKAARTCAHQAKKTRR
7223	NP_987102.1	157	NSDPNWWKGACHGQTMFPRN
7224	NP_997195.1	315	CDPRHGKYMACCMLYRGDVVP
7225	NP_997195.1	316	DPRHGKYMACCMLYRGDVVPK
7226	NP_997195.1	432	REDLAALEKDC EEVGVDSVEA
7227	XP_005245073.1	177	GPSLRPPNVACWRDGGKAAGS
7228	XP_005245073.1	223	ILKVVEKRIACGPPQAKLNGQ
7229	XP_005245073.1	587	LQKMKEQEKECELEKEREKLE
7230	XP_005245073.1	895	HHTDANNQSACFEAPDQKTLS
7231	XP_005245073.1	953	SAGIPKVTSRCIDSKEPIERP
7232	XP_005245073.1	2340	STTTSDPPNICKVKPQQLQTS
7233	XP_005245073.1	2363	PSASHFSQLSCMPSLIAQQQQ
7234	XP_005245073.1	2793	ARLPHVARGPCGSLSGVRGNQ
7235	XP_005245073.1	2865	PETLTDPPGVCQEKEVEEKPPP
7236	XP_005246697.1	22	KFDDLQFFENC GGSGFSVYR
7237	XP_005246697.1	150	VIAADGVLKICDFGASRFHNN
7238	XP_005246697.1	187	VIQSLPVSETCDTYSYGVVWLW
7239	XP_005246697.1	273	MSNDTSLPDKCNSFLHNKAEW
7240	XP_005246697.1	346	IGAWTEDDVYCWVQQLVRKGD
7241	XP_005246697.1	455	HLKPGTGPQDCKWKMYMEMDG
7242	XP_005246697.1	571	PGSRSDSSADCQWLDTLRMRQ
7243	XP_005247870.2	99	GEFYVIEYAACDATYNEIVTF
7244	XP_005247870.2	129	KTVKKNFFFKCTVDVPEDLRE
7245	XP_005247870.2	141	VDVPEDLREACANENAHKDFK
7246	XP_005247870.2	157	HKDFKAVGACRIFYHPETTQ
7247	XP_005247870.2	211	RNEEATKHLECTKQLAAAFHE
7248	XP_005248608.1	99	AIITFPSLESCEEKNQLILTA
7249	XP_005248608.1	138	RISCFQSTVKCLTVLQRLDVW
7250	XP_005248608.1	156	DVWLSGGNDLCVWNRKLDLLC
7251	XP_005248608.1	166	CVWNRKLDLLCKTSHLSDTDL
7252	XP_005248608.1	220	QLDTQQEIKLCQKSNDISIH
7253	XP_005248608.1	233	SNDISIHFTCDEENVFAAVG
7254	XP_005248608.1	259	YSLQMKRVIACQKTAHDSNVL
7255	XP_005248608.1	282	ARLPNRQLISCS EGDGVRWE
7256	XP_005248608.1	335	VKKQQENATSCSLELIGDLIG
7257	XP_005248608.1	364	LYFEDHGLVTC SADHLIILWK
7258	XP_005248611.1	14	KRSLFVRLVPCRCR LGEEETV
7259	XP_005248611.1	16	SLFVRLVPCRCR LGEEETVTT
7260	XP_005248611.1	68	IEELPKQLFNCQSLHKLSLPD
7261	XP_005248611.1	114	IQEFPENIKNCKVLTIVEASV
7262	XP_005248611.1	252	IEMVEEGISTCENLQDLLSS
7263	XP_005248611.1	306	GGLISVEELDCSFNEVEALPS
7264	XP_005248611.1	658	THNSNQNSNCS SPSRMSDSV
7265	XP_005248611.1	681	NTDSSQDTSLCSPVKQTHIDI
7266	XP_005248611.1	843	PNRTEPHSDCSVDLGISKST
7267	XP_005248611.1	1230	SNFTTVSSFHCGSSRDLHGSQ
7268	XP_005248611.1	1271	HPQTS SSGDPCQDGI F ISGQQ
7269	XP_005248611.1	1357	AHQPPYTQPHCS PRQGHELAK
7270	XP_005252348.1	104	WDLKEEINIACIEAKQAGETI
7271	XP_005252348.1	234	MAAARAVLEKCTMMLLTASKT
7272	XP_005252348.1	245	TMMLLTASKTCLRHPCESAH
7273	XP_005252348.1	251	ASKTCLRHPCESAHKNKEGV
7274	XP_005252348.1	279	LDKVIEIVTDCCKPNGETDISS
7275	XP_005252348.1	451	SEQKEQLVETCRLLRHISGTE
7276	XP_005252348.1	467	ISGTEPLEITCIHAETTFQVT
7277	XP_005252348.1	505	KIAKENLDVFCEAWESQISDM
7278	XP_005252348.1	581	KLGLLTSADCEIERWEDQEN
7279	XP_005252348.1	689	QNKVFLKVDKCITKTRSMML
7280	XP_005252348.1	707	MALLVQLLSLCYKLLKMMENN
7281	XP_005252522.1	98	VGGTIIGSARCQAFRTREGRL
7282	XP_005252522.1	123	NLLQRGITNLCVIGDGLTGTG
7283	XP_005252522.1	179	GMVGSIDNDFCGTDMTIGTDS
7284	XP_005252522.1	221	TFVLEV MGRHCGYLALVSALA
7285	XP_005252522.1	343	LLEATPDT PACVVS LNGNHAV
7286	XP_005252522.1	360	NHAVRLPLMECVQMTQDVQKA
7287	XP_005252522.1	411	LPDDQIPKTNCNVAVINVGAP
7288	XP_005252522.1	529	SAAREKH EEFVPMVMVPATV
7289	XP_005252522.1	567	NTITDAYKSACDMAEARGRHQ
7290	XP_005252522.1	584	GRHQELCIPLCVVPATISNNV
7291	XP_005252522.1	614	DTGLNAV VETCDRIKQSASGT
7292	XP_005252522.1	692	QRGLVLRNESCS ENYTFDIY
7293	XP_005252522.1	715	YSEEGKGVFDCRKNVLGHMQQ
7294	XP_005252522.1	769	GKKFTTDDSI CVLGISKRNV
7295	XP_005254127.1	150	PVHRVALAEACRQEEFDVAN
7296	XP_005254127.1	197	KYSDPGPVYDCLVWHDEGEVWR

7297	XP_005254127.1	209	VVHHDGEVWRACIDSNEGDGDL
7298	XP_005254127.1	322	RAMIEVINHKCDLVNYSYGEA
7299	XP_005254127.1	342	ATHWPNSGRICEVINEAVWKH
7300	XP_005254127.1	366	YVSSAGNNGPCLSTVGCPCGGT
7301	XP_005254127.1	372	NNGPCLSTVGCPCGGTSSVIG
7302	XP_005254127.1	456	NGTSMSSPNACGGIALILSGL
7303	XP_005254127.1	582	ALTSNSSWVQCPSHLELMNQ
7304	XP_005254127.1	592	CPSHLELMNQCRHINIRVDPR
7305	XP_005254127.1	614	LRGLHYTEVCGYDIASPNAG
7306	XP_005254127.1	678	EGATWAEVTVCSSESSEVSAKF
7307	XP_005254127.1	680	ATWAEVTVCSSESSEVSAKFVL
7308	XP_005254127.1	710	AYRSHEFYKFCSLPEKGTLTE
7309	XP_005254127.1	733	PVLGGKAEFCIARWWASLSD
7310	XP_005254127.1	757	DYTI SFHGIVCTAPQLNIHAS
7311	XP_005254127.1	787	SSLKYEDLAPCITLKNWVQTL
7312	XP_005254127.1	840	QPKSGEVTSPCLLCELLYES
7313	XP_005254127.1	844	GEVTPSCPLLCELLYSEFDS
7314	XP_005254127.1	967	DKIPKGAGPGCYLAGSLTSLK
7315	XP_005254127.1	1130	ATIKKLPSDFCIIPALLWAAR
7316	XP_005254127.1	1180	KQKSTLVDALCRKGCALADHL
7317	XP_005254127.1	1184	TLVDALCRKGCALADHLLHTQ
7318	XP_005254127.1	1273	EKPTKENWKNCIQLMKLLGWT
7319	XP_005254127.1	1285	QLMKLLGWTHCASFTENWLPI
7320	XP_005254330.1	137	GADVHTQSKFCKTAFDISDN
7321	XP_005255128.1	366	VREGPRGGVRCSSSRGGRPGL
7322	XP_005255128.1	468	SAAPAPI SASCEPEPIGSAVP
7323	XP_005255128.1	634	TEGPEQPPPCPSQTGSPVVG
7324	XP_005257069.1	39	TLTME SDKFICIREKVGQAQ
7325	XP_005257069.1	151	MFDRHSSLAGCQIINVRTDAK
7326	XP_005257069.1	217	EGNAEESTLFCFAVRGQAGGK
7327	XP_005257069.1	292	IHLVDLETGTCIYMNRSGET
7328	XP_005257069.1	328	VNRKGQVLSVCVEEENIIPYI
7329	XP_005257069.1	436	QLNKYESLELCRPVLQGRKQ
7330	XP_005257069.1	562	VFMEYNLIQQCTAFLLDALKN
7331	XP_005257069.1	617	HYDRAHIAQLCEKAGLLQRAL
7332	XP_005257069.1	666	GSLSVEDSLECLRAML SANIR
7333	XP_005257069.1	682	SANIRQNLQICVQVASKYHEQ
7334	XP_005257069.1	748	TGQIKEVERICRESNCYDPER
7335	XP_005257069.1	753	EVERICRESNCYDPERVKNFL
7336	XP_005257069.1	778	LTDQLPLIIVCDRFDVHDLV
7337	XP_005257069.1	909	YYDSRVVGKYCEKRDPHLACV
7338	XP_005257069.1	918	YCEKRDPHLACVAYERGQCDL
7339	XP_005257069.1	926	LACVAYERGQCDLELINV CNE
7340	XP_005257069.1	934	GQCDLELINV CNE NSL FKSLS
7341	XP_005257069.1	1102	LDRAYEFAERCNEPAVWSQLA
7342	XP_005257069.1	1205	NAHIQQVGDRCYDEKMYDAAK
7343	XP_005257069.1	1257	ANSTRTWKEVCFACVDGKEFR
7344	XP_005257069.1	1260	TRTWKEVCFACVDGKEFR LAQ
7345	XP_005257069.1	1272	DGKEFR LAQ MCGLHIVVHADE
7346	XP_005257069.1	1528	NNRWKQSVELCKKDSLYKDAM
7347	XP_005257069.1	1565	QWFLQE EKRECFGACLFTCYD
7348	XP_005257069.1	1569	QEEKRECFGACLFTCYDLLRP
7349	XP_005257069.1	1573	RECFGACLFTCYDLLRPDVVL
7350	XP_005259631.1	80	ELHGNMFVEECAKCKTQYVRD
7351	XP_005259631.1	83	GNMFVEECAKCKTQYVRD TVV
7352	XP_005259631.1	105	TMGLKATGRLCTVAKARGLRA
7353	XP_005259631.1	116	TVAKARGLRACRGELRDTILD
7354	XP_005259631.1	259	SIPAGPKQEPCAQHNGSEPAS
7355	XP_005260441.1	15	DSEQPSKRPRCDDSPRTPSNT
7356	XP_005260441.1	51	DYK TWGPEQVCSFLRRGGFEE
7357	XP_005260441.1	177	HSLGVGYLAGCLVHALGEKQP
7358	XP_005260441.1	198	ELQISERDVL CVQIAGLCHDL
7359	XP_005260441.1	205	DVLCVQIAGLCHDLGHGPF SH
7360	XP_005260441.1	266	QYGLIPEEDICFIKEQIVGPL
7361	XP_005260441.1	320	VDKWDYFARDCHHLGIQNNFD
7362	XP_005260441.1	350	VCEVDNELRICARDKEVGNLY
7363	XP_005260441.1	519	KFAEQ LIRVYCKKVD RKS LYA
7364	XP_005260441.1	538	YAARQYFVQWCADRNF TKPQD
7365	XP_005262022.1	19	KKTPTEAPADCRALIDKLVKVC
7366	XP_005262022.1	49	QQIKTWNIGKCELYHVV D LLD
7367	XP_005262022.1	81	TVENMSWMLVCDRPEREQLKM
7368	XP_005262022.1	182	GKENGFLAECCRDLHMMKY P
7369	XP_005262022.1	183	KENGFLAECCRDLHMMKY P P
7370	XP_005262022.1	349	RTPKLSIIDCTGTASYHGFL
7371	XP_005262022.1	366	HGFLPVLVRNCIQAMIDPSMD
7372	XP_005262022.1	467	IYRLEHEVDLCRKECPFVIKP

7373	XP_005262022.1	471	EHEVDLCRKECPFVIKPKIQR
7374	XP_005262022.1	500	EMETDMDGVQCIPQRAALLKS
7375	XP_005262022.1	612	GSLPNVFSALCLNARGLQSFV
7376	XP_005262022.1	624	NARGLQSFVQCQPFERLFKVL
7377	XP_005262022.1	689	TAI IKLLEEICNLGRDPKYIC
7378	XP_005262022.1	699	CNLGRDPKYICQKPSIQKADG
7379	XP_005262022.1	790	ILSNNTTDDHCQEFVNQKGLL
7380	XP_005262022.1	821	LPIDFPTSAAACQAVAGVCKSI
7381	XP_005262022.1	828	SAACQAVAGVCKSILTLSHEP
7382	XP_005262022.1	876	GGSVLLRELACAGNVADATLS
7383	XP_005262022.1	910	HAYIMMFVHTCRVQSEIRSI
7384	XP_005262022.1	955	VWESTVLLSLCTPNLSLPSGCE
7385	XP_005262022.1	964	LCTPNLSLPSGCEFGQADMQKL
7386	XP_005262022.1	1074	AELFGLLVKLCVGSVPRQRRS
7387	XP_005262022.1	1133	TPRFRLTFFICSVGFTSPMLF
7388	XP_005262022.1	1159	PYHMLMLKQFLCSGGHNALFET
7389	XP_005262022.1	1252	LVVTQKAAFTCIKNLWNRKPL
7390	XP_005262022.1	1278	RMAESMLAILCHILRGEFVIR
7391	XP_005262022.1	1447	HTFTDTMLPGCFHLLDELPTD
7392	XP_005262022.1	1462	DELPDVTYRVCDLIMTAIKRN
7393	XP_005262022.1	1544	TLLEFELKLPICAWVVESSGIL
7394	XP_005262022.1	1567	LIKLEVVQPCLQAAKEQKEV
7395	XP_005262022.1	1628	RWFDDRSGRWCSYSASNSTI
7396	XP_005262022.1	1762	EDMVTVLIRACVSMLGVPVDP
7397	XP_005262022.1	1782	PDTLHATLRLCLRLTRDHKYA
7398	XP_005262022.1	1891	NPDI FTEVANCCIRIALPAPR
7399	XP_005262022.1	1892	PDIFTEVANCCIRIALPAPRG
7400	XP_005262022.1	2106	VGQSELIKEDCSVLAFVLDHL
7401	XP_005262022.1	2181	EKHARLQAVMCIISTIMESCP
7402	XP_005262022.1	2190	MCIISTIMESCPSTSSFYSSA
7403	XP_005262022.1	2655	PTALTRWTEECKVLDAESMHD
7404	XP_005262022.1	2666	KVLDAESMHDCVSVVKVSIVN
7405	XP_005262022.1	2865	SPMDTSSLASCTLEEAVGDT
7406	XP_005262022.1	3213	SRLHRVLRNLCYHAQTRHWVI
7407	XP_005262022.1	3259	EKKGKSSKSCGSSSHENRPL
7408	XP_005262022.1	3296	LSVSMDAALGCRNTNIFQIQRS
7409	XP_005262022.1	3333	HIHPQAAPVVCRHVLDTLIQ
7410	XP_005262022.1	3361	FTQQRTKETNCESDRERGNKA
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7412	XP_005262022.1	3375	RERGNKACSPCSSQSSSSGIC
7413	XP_005262022.1	3385	CSSQSSSSGICTDFWDLVVKL
7414	XP_005262022.1	3593	LSVEVLTSHSCSEEGLEDAAN
7415	XP_005262022.1	3635	NGARHLGYTLCKQIGTLAEL
7416	XP_005262022.1	4099	VTYTINPSSHCPNHL SYFKF
7417	XP_005262022.1	4126	KAVYDNRLLECYFTRSFYKHI
7418	XP_005262022.1	4184	FSTEVQEFVCEVRDLKPNGA
7419	XP_005262022.1	4211	ENKKEYVHLVCQMRMTGAIRK
7420	XP_005262022.1	4367	RHMLLLAIQECSEGFGLAXXX
7421	XP_005262358.1	306	AWNPNSPRVECVLAEKGVTC
7422	XP_005264059.1	82	LEENTDKAVECYRRSVELNPT
7423	XP_005264059.1	105	DLVLKIAELLCKNDVTDGRAK
7424	XP_005264059.1	188	TKRLKDAVAHCHEAERNIALR
7425	XP_005264059.1	206	ALRSSLEWNSCVVQTLKEYLE
7426	XP_005264059.1	220	TLKEYLESLOCLESDKSDWRA
7427	XP_005264059.1	319	WRALSELAALCYLIAFQVPRP
7428	XP_005264059.1	348	AGQNLEMMACDRLSQSGHML
7429	XP_005264059.1	480	RLETNAPESICILDLEVFLLG
7430	XP_005264059.1	503	YTSHLQLKEKCNSSHSSYQPL
7431	XP_005264059.1	514	NSHSSYQPLCLPLPVCKQLC
7432	XP_005264059.1	520	YQPLCLPLPVCKQLCTERQKS
7433	XP_005264059.1	524	CLPLPVCKQLCTERQKSWDA
7434	XP_005264059.1	536	ERQKSWDAVCTLIHRKAVPG
7435	XP_005264059.1	581	QPALLVHWAECLOKGTGSLNS
7436	XP_005264059.1	707	DALSPEEQECKNYLRKTRDY
7437	XP_005264059.1	815	EDQNSLLKMICQQVEAIKKEM
7438	XP_005264059.1	932	HTPPVQSSSACMFSQEMYGPP
7439	XP_005264059.1	1196	TGEEDEEEFFCNRAKLFRFDV
7440	XP_005264059.1	1243	LMRREQVLKICANHYISPMK
7441	XP_005264059.1	1296	KTPEEAALFKCKFEEAQSILK
7442	XP_005264059.1	1335	EPTSHDNKDICKSDAGNLNFE
7443	XP_005264059.1	1372	SLKNASTAKKCVSCQNLNPSN
7444	XP_005264059.1	1375	NASTAKKCVSCQNLNPSNKEL
7445	XP_005264059.1	1421	VTPKKEGHWDCSI CLRNEPT
7446	XP_005264059.1	1424	KKEGHWDCSI CLRNEPTVSR
7447	XP_005264059.1	1438	NEPTVSRCIACQNTKSANKSG
7448	XP_005264059.1	1499	LVQNEGSSTKCAACQNPRKQS

7449	XP_005264059.1	1502	NEGSSTKCAACQNPRKQSLPA
7450	XP_005264059.1	1749	ASATKCIACQCPSKQNTTAI
7451	XP_005264059.1	2407	GTERVWLWTACDFADGERKVE
7452	XP_005264059.1	2464	SRSSTPRESPCGKIAVAVLEE
7453	XP_005264059.1	2577	GSESKVEPKKCELSKNSDIEQ
7454	XP_005264059.1	2685	TKLKLPTFFCYKNRDPYVSE
7455	XP_005264059.1	2722	GKLYLDGSEKCRPLEENTADN
7456	XP_005264059.1	2736	EENTADNEKECIIIVWEKKPTV
7457	XP_005264059.1	2766	KLPTFFCGVCSDTDEDNNG
7458	XP_005264059.1	2825	GGTEVMVPSFCKSEEPSITK
7459	XP_005264059.1	3066	VRFKTKEVADCFKKTFECCQQ
7460	XP_005264059.1	3074	ADCFKKTFECCQQNLMKLQKG
7461	XP_005264059.1	3105	ETNPVVFDFVCADGEPLGRIT
7462	XP_005264059.1	3156	IFHRVIPDFVCQGGDI TKHDG
7463	XP_005264059.1	3247	ESFGSPKGSVCRRITITECGQ
7464	XP_005264061.1	50	KEYDLAKKYICTYINVQERDP
7465	XP_005264337.1	815	TKFLSQIESDCLALLQVRAIL
7466	XP_005264696.2	84	VSPVVHVRGLCESVVEADLVE
7467	XP_005264696.2	103	VEALEKFGTICYVMMPFKRQ
7468	XP_005264696.2	127	EFENIDSAKECVTFAADEPVY
7469	XP_005264696.2	217	QAMVEFESVLCQAQKAAALNG
7470	XP_005264696.2	454	ASKNIIQPPSCVLHYNVPLC
7471	XP_005264696.2	474	CVTEETFTKLCNDHEVLTFIK
7472	XP_005264696.2	505	KTLSGLLEWECKTDAVEALTA
7473	XP_005264696.2	544	AGLELLDLMICPPPPSEVLGL
7474	XP_005265003.1	113	YIEDEDSFRNCLLSCLERLQDE
7475	XP_005265003.1	117	EDSFRNCLLSCLERLQDEEASM
7476	XP_005265003.1	342	SGNQESSGQSCIIILFDVIKS
7477	XP_005265003.1	411	RVLRNKIRSGCIEQLLQSTF
7478	XP_005265003.1	469	KYAFKFFDTYCCQEVV GALVT
7479	XP_005265003.1	482	EVVGALVTHICSGNEAEVDTA
7480	XP_005265003.1	607	QERANLSDEQCTQVTSLLQLV
7481	XP_005265003.1	657	KALEWVGHTICNDFQDAFVVD
7482	XP_005265003.1	669	DFQDAFVVDSCVVPEDFPFP
7483	XP_005265003.1	729	ESGQKLVSPCLAPYFRLLRL
7484	XP_005265003.1	740	LAPYFRLLRLCVERQHNGNLE
7485	XP_005265003.1	758	NLEEIDGLLDCPIFLTDLEPG
7486	XP_005265003.1	783	SMSAKERSFMCSLIFLTLNWF
7487	XP_005265003.1	801	NWFREIVNAFCQETSPEMKGK
7488	XP_005265003.1	893	DTLSEKKNSECPTPSHRGQL
7489	XP_005265003.1	938	LDIEVF SILHCGLVTKFILD
7490	XP_005265003.1	1015	QQRSAQEI VHCVFQLLTPMCN
7491	XP_005265003.1	1024	HCVFQLLTPMCNHLNIHNYF
7492	XP_005265003.1	1036	HLENIHNYFQCLAENHGVVD
7493	XP_005265003.1	1061	KVQEYHIMSSCYRLLQIFHG
7494	XP_005265003.1	1130	NFHQSIPSFQCALYLIRLLMV
7495	XP_005265003.1	1164	KIASLARQFLCRVWPSGDKEK
7496	XP_005265003.1	1187	ISNDQLHALLCIYLEHTESIL
7497	XP_005265003.1	1294	VFDSHPVLHVCLKYGRLFVEA
7498	XP_005265003.1	1342	QLDTRLLHHL CGHSHIQDTR
7499	XP_005265003.1	1380	RVKAMLT LNNCREAFWLGNLK
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7501	XP_005265371.1	134	DEQRCLQEACKDII LLFKNLD
7502	XP_005265371.1	308	GGNQEVEIARCHKGQYFGELA
7503	XP_005265371.1	337	ASAYAVGDVKCLVMDVQAFER
7504	XP_005265371.1	352	VQAFERLLGPCMDIMKRNI SH
7505	XP_005265728.1	80	QHHKAKRNRTCRRPSSSESSS
7506	XP_005265728.1	210	VLRRLTSSVSCALDEAAAALT
7507	XP_005265728.1	564	IKAGADIELGCSTPLMEAAQE
7508	XP_005265728.1	714	AAKGGHTSVVCYLLDYPNNLL
7509	XP_005265728.1	1370	GSDSNMR ISSCSDESSNSNSS
7510	XP_005265728.1	1438	SEGTNSLSLSTCTKSGPSPLSS
7511	XP_005265728.1	1811	GGVSRNSPLDCGSASPNKVAS
7512	XP_005265728.1	1914	TYPMPQTPMGCQPQTPKMETP
7513	XP_005265728.1	1978	LPSTLSTQSACQNSVHPANKP
7514	XP_005265728.1	2129	HFSPLSLLTPCSSASNDSSAQ
7515	XP_005265728.1	2223	IGGNQDKVDWCNPGMGNPMIH
7516	XP_005265919.1	75	KNQCFLTNTQCKVCCALLISE
7517	XP_005265919.1	78	CLFTNTQCKVCCALLISESQK
7518	XP_005265919.1	79	LFTNTQCKVCCALLISESQKL
7519	XP_005265919.1	135	KSSRSKDKNQCCPICNMTFSS
7520	XP_005265919.1	136	SSRSKDKNQCCPICNMTFSSP
7521	XP_005265919.1	139	SKDKNQCCPICNMTFSSPVVA
7522	XP_005265919.1	203	NREMI DPKFCSLCHATFNNDP
7523	XP_005265919.1	206	MIDPDKFCSLCHATFNDPVMA
7524	XP_005265919.1	257	TDFPAGKGYPCKTCKIVLNSI

7525	XP_005265919.1	260	PAGKGYPCKTCKIVLNSIEQY
7526	XP_005267559.2	32	DMQLIALEQLCMLLLMSDNVD
7527	XP_005267559.2	44	LLLMSDNVDRCFETCPPRTFL
7528	XP_005267559.2	58	CPPRTFLPALCKIFLDESAPD
7529	XP_005267559.2	88	ITYYLDVSAECTRRIVGVDGA
7530	XP_005267559.2	103	VGVDGAIKALCNRLVVVELNN
7531	XP_005267559.2	123	NRTSRDLAEQCQVKVLELICTR
7532	XP_005267559.2	146	GAVFEAGGLNCVLTFFIRDSGH
7533	XP_005267559.2	174	HSAMAVVSRCLCGKMEPQDSSL
7534	XP_005267559.2	187	MEPQDSSLEICVESLSSLLKH
7535	XP_005267559.2	209	DHQVSDGALRCFASLADRFRTR
7536	XP_005267559.2	254	GGTVSGPSSACKPGRSTTGAP
7537	XP_005267559.2	287	STIVSLLSTLCRGSPPVTHDL
7538	XP_005267559.2	316	IESALQGDERCVLDMRLVDL
7539	XP_005267559.2	369	GERSHRQLIDCIRSKDTDALI
7540	XP_005267559.2	416	FGTQEMVEFLCERGADVNRGQ
7541	XP_005267559.2	436	QRSSSLHYAACFGRPQVAKTL
7542	XP_005267559.2	487	AILQSPGDWMCVPVNGDDKKK
7543	XP_005267559.2	507	KKDTNKDEEEECNEPKGDPEMA
7544	XP_005267559.2	555	LALIRKMIHFCSEALLKEVCD
7545	XP_005267559.2	564	FCSEALLKEVCDSVDVGHNLPT
7546	XP_005267559.2	762	KLTVGNWSLTCLKEGEIAIHN
7547	XP_005267559.2	878	SSWELHTNRQCIESENTWRDL
7548	XP_005267559.2	912	DENTISPYEMCSSGLVQALLT
7549	XP_005267559.2	936	NSMDLDMKQDCSQLVERINVF
7550	XP_005267559.2	1127	ILSRDNSALNCHSNDKNAWF
7551	XP_005267559.2	1187	WTSLYTHVDDCSLNEPGSTAT
7552	XP_005267559.2	1244	FELYGTVNGVCEQLGKAAKE
7553	XP_005267559.2	1368	QSWSSLVKNNCPDKTSAAGS
7554	XP_005267559.2	1666	EYSLYDFLDSCRASLLAELD
7555	XP_005267559.2	1811	PHSELLEEVECTPSRLALTL
7556	XP_005267559.2	1855	YYVQKLLQLSCNGNVKSDKLR
7557	XP_005267559.2	1893	DKEKENGKMGCSIEHVEQYL
7558	XP_005267559.2	1944	TNKSIRKNRNCSQLIAAYKDF
7559	XP_005267559.2	2071	PDWCEQLTSKCPFLIPFETRQ
7560	XP_005267559.2	2086	PFETRQLYFTCTAFGASRAIV
7561	XP_005267559.2	2195	FQRTDLGAWLCDDNFPDDES
7562	XP_005267559.2	2224	KPPGYVQRSCGLFTAPFPQD
7563	XP_005267559.2	2255	FHFLGIFLAKCIQDNRLVDLP
7564	XP_005267559.2	2275	PISKPFKLMCMGDIKSNMSK
7565	XP_005267559.2	2298	YESRGRDLHCTESQSEASTE
7566	XP_005267559.2	2453	EEYVDLMFDFCMHTGIQKQME
7567	XP_005267559.2	2491	FSHEEVQMILCGNQSPSWAAE
7568	XP_005267559.2	2528	PGFLRFVRVLCGMSSDERKAF
7569	XP_005267559.2	2545	RKAFLQFTTGICSTLPPGLAN
7570	XP_005267559.2	2579	TDASYPSVNTCVHYLKLPEYS
7571	XP_005268645.1	503	KQSKVSADDRCKVLISSLQDC
7572	XP_005269704.1	81	KFEILSVESLCEGMRILGCVK
7573	XP_005269704.1	89	SLCEGMRILGCVKEVNELELV
7574	XP_005269704.1	116	LQGFVQVTEICDAYTKKLEQ
7575	XP_005269704.1	241	AKLVGQYLNLCIVEKVKNGGG
7576	XP_005269704.1	333	SNQAVRACILCVHPRTRVVHL
7577	XP_005269704.1	361	QPGRPLTRLSCQNLGAVLDDV
7578	XP_005269704.1	419	EAFKPGNTHKCRIIDYSQMDE
7579	XP_005269704.1	505	KKYHIGDEVKCRVLLCDPEAK
7580	XP_005269704.1	510	GDEVKCRVLLCDPEAKLMMT
7581	XP_005269704.1	557	GFIIIRVKDYGCIVKFYNNVQG
7582	XP_005269704.1	599	GQVVKVVVNLNCEPSKERMLLS
7583	XP_005269704.1	694	QAGDILHRVLCLSQSEGRVLL
7584	XP_005269704.1	705	LSQSEGRVLLCRKPALVSTVE
7585	XP_005269704.1	802	RMLLSLRRLSDCGLGDLAITS
7586	XP_005269704.1	818	AITSLLLLNQCLEELQGVRS
7587	XP_005269704.1	1062	VVTLEDGIIGCIHASHILDDV
7588	XP_005269704.1	1154	KQYQAGQVTCFLKKYNVVKK
7589	XP_005269704.1	1218	VGPDSKTLCLSLTGPHKLE
7590	XP_005269704.1	1283	EDFVPQKVRCYILSTADNVL
7591	XP_005269704.1	1473	PQAQKRGGRECRESGEQERV
7592	XP_005269704.1	1755	SHRVLQRALECLPSKEHVDVI
7593	XP_005272154.1	52	TSENGWTALMCDRSIVNKS
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7595	XP_005272154.1	159	ESFQQPEVRLCQLNYTDIKDY
7596	XP_005272154.1	229	AEEFKQRHENCYFLHPMPAL
7597	XP_005272154.1	266	VLAHWSRYKFCPTCGNATKIE
7598	XP_005272154.1	269	WHSRYKFCPTCGNATKIEEGG
7599	XP_005272154.1	284	KIEEGGYKRLCLKEDCPSLNG
7600	XP_005272154.1	289	GYKRLCLKEDCPSLNGVHNTS

7601	XP_005272154.1	319	MQVIHPDGTKCLLGRQKRFP
7602	XP_005272154.1	334	QKRFPFGMFTCLAGFIEPGET
7603	XP_005272154.1	369	VKVGHVQYVACQPWPMPSSLM
7604	XP_005272154.1	382	WPMPSSLMIGCLALAVSTEIK
7605	XP_005273538.1	13	AATVDHSQRICEVWACNLDEE
7606	XP_005273538.1	67	NADYQYQLLRNCVNDLLKIQ
7607	XP_005273538.1	148	ELLMTSGVVLCCEGVKWSFHS
7608	XP_005273538.1	202	IYDVKYLKMSCKNLKGGLOEV
7609	XP_005273538.1	256	FEDHIDDAKYCGHLYGLGSGS
7610	XP_005274249.1	76	WVNSHLARVTCRVGDLYSDLR
7611	XP_005274249.1	115	KPTKGRMRIHCLENVDKALQF
7612	XP_005274249.1	231	DLDFESLKKCNHYNLQNAF
7613	XP_005274249.1	598	RAVSASALRFCNPGKEYRPCD
7614	XP_005274249.1	607	FCNPGKEYRPCDPQLVSEVA
7615	XP_005274249.1	627	AKLEQSYEALCELAARRARL
7616	XP_005274249.1	864	LYTMLSEAGACGLWVEKEQW
7617	XP_005274249.1	967	ALSIQNYHLECTETQAWMREK
7618	XP_005274249.1	1140	EVTRDQADPQCLFLRQRLEAL
7619	XP_005274249.1	1287	NREQQHFLQDCHELKWLWIDEK
7620	XP_005274249.1	1392	ANRAELFAQSCCALESWLES
7621	XP_005274249.1	1393	NRAELFAQSCCALESWLES
7622	XP_005274249.1	1474	RAVEEKFRALCQPMRERCRR
7623	XP_005274249.1	1481	RALCQPMRERCRRLOASREQH
7624	XP_005274249.1	1697	RERLQEHRLRCLRRRELDLLE
7625	XP_005274249.1	1843	NAAEALQRRHCAYEHDIQALS
7626	XP_005274249.1	1966	IEARADRFSSCIDMGKELLAR
7627	XP_005274249.1	2030	RDAGMAEAWLCSQEPLVRS
7628	XP_005274249.1	2043	EPLVRS AELGCTVDEVESLIK
7629	XP_005274249.1	2143	STQAPSVNGVCTDGEPSQPLL
7630	XP_005274249.1	2226	SAQEQMEGMLCRKQEMAFGK
7631	XP_005274249.1	2248	AANRSWQNVYCVLRRGSLGFY
7632	XP_005274297.1	108	QTWTREVFSSCSSEVVLGDD
7633	XP_005274297.1	567	LGSPSGKTGTCTRISMSEVDLN
7634	XP_005274297.1	1833	EAEVPDVDLECPDAKLGPKF
7635	XP_005274297.1	5382	GD LAVSGDIKCPKVS VGAPDL
7636	XP_005274302.1	5050	LQMPGIKSSGCDVNLPGVNVK
7637	XP_005274822.1	58	DSPTGSHVWCKQLIAATISS
7638	XP_005274822.1	151	KAIIVKDVMIYICPFMGAVSGTL
7639	XP_005274822.1	204	IGAQSHGDNNSCGIEIVCKDMR
7640	XP_005274822.1	210	GDNSCGIEIVCKDMRNLRLAY
7641	XP_005274822.1	292	ISKINSNYEFCDTYPAIIVVP
7642	XP_005274822.1	339	HPESQATITRCSQPLVGPNDK
7643	XP_005274822.1	351	QPLVGPNDKRCCKEDEKYLQTI
7644	XP_005274822.1	472	ESGKTSVVVHCSGDWDRTAQL
7645	XP_005274822.1	541	RSPIFLQFVDCVWQMTQFPS
7646	XP_005274822.1	570	LITILDHLYSCLFGTFLCNCE
7647	XP_005274822.1	577	LYSCLFGTFLCNCEQQRFKED
7648	XP_005274822.1	579	SCLFGTFLCNCEQQRFKEDVY
7649	XP_006711880.1	34	GGQGQTPELACL SAQNGESSP
7650	XP_006711880.1	153	TVDLLMQESGRLEHPSATKF
7651	XP_006711880.1	259	RIHVLSGYLMCSHAEDLRAKA
7652	XP_006711880.1	316	RQAVELQRDRCLYHNTKLDNN
7653	XP_006711880.1	338	DSVSLLDHVCSRQFP CYTQQ
7654	XP_006711880.1	344	IDHVCSRQFP CYTQQILTEHC
7655	XP_006711880.1	354	CYTQQILTEHCNEVWFCKFSN
7656	XP_006711880.1	360	LTEHCNEVWFCKFSNDGTKLA
7657	XP_006711880.1	418	WSPDDNYLVACGPDDCSELWL
7658	XP_006711880.1	423	NYLVACGPDDCSELWLVNVT
7659	XP_006711880.1	472	TGGQRGQFYQCDDLGNLLDSW
7660	XP_006711880.1	489	LDSWEGVRVQCLWCLSDGKTV
7661	XP_006711880.1	576	VTQGFYTIHSCFGGHNEFDIA
7662	XP_006711880.1	617	ELTGHTRTVNCVSWNPQIPSM
7663	XP_006712092.1	40	IRPVPSLPDVC PKPTGDSHS
7664	XP_006712092.1	134	ISQREKIH ERCKNICPKDFTF
7665	XP_006712092.1	138	EKIHERCKNICPKDFTFRTL
7666	XP_006712092.1	267	DKIAQIDKVMCEGSLHILRLA
7667	XP_006712092.1	283	ILRLALTRNNCVKVYNKLLKM
7668	XP_006712092.1	374	SDLNRPLEDDCQVLEECVINK
7669	XP_006712092.1	380	LEDDCQVLEECVINKVSQTEE
7670	XP_006712092.1	511	QRNASPNSEPCSSDSVSEPEC
7671	XP_006712092.1	521	CSSDSVSEPECTTDSSSSKEH
7672	XP_006712092.1	574	QELLYSASDICHDRAVKFLMS
7673	XP_006712092.1	617	ETFIELDTEQICGRKSTSLGA
7674	XP_006712092.1	720	LLLIRIILEYQCQVDNIPSVT
7675	XP_006712092.1	749	DLLKYFNRSRQCLVLAGALQ
7676	XP_006712092.1	777	TTKNLALSSRCLQLIVHYIPV

7677	XP_006712092.1	850	YEVKAPVPSACFRNICKQMTK
7678	XP_006712092.1	855	PVPSACFRNICKQMTKMHEAI
7679	XP_006713650.1	400	QKTGQELQSACDALKDQNSKL
7680	XP_006713650.1	1055	DKENKEYSEKCVTSKCQEIEI
7681	XP_006713650.1	1060	EYSEKCVTSKQCQEIEIYLKQT
7682	XP_006713650.1	1156	VKETVVISPPCTGSSEHWKPE
7683	XP_006713650.1	1262	KLPSTDQQESCSSTPGLLEEPL
7684	XP_006713650.1	1290	HTQPVLESNLCPDWPSHSEDA
7685	XP_006713650.1	1467	ERIKQLQVELCEMKQKPEEIG
7686	XP_006713650.1	1574	LLENQSLSSSCESLKLALLEGL
7687	XP_006713650.1	1718	VHPAGDTAKECMETLLSSNAS
7688	XP_006713650.1	1816	DSLSTRPTCSESVPKSAKSA
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7690	XP_006713650.1	1969	LESEMKNLKKCVSELEEEKQQ
7691	XP_006713650.1	2033	QQEVKQLQKDCIRYQEKISAL
7692	XP_006713650.1	2238	EEEIRLKEDNCSVLKDKLQRM
7693	XP_006713650.1	2284	QTEVQLQQKVCDTLQGENKEL
7694	XP_006713650.1	3095	QQHYGDLNHCVALEKQVQEL
7695	XP_006713650.1	3202	DSSRTPIIIGSCGTQEALLID
7696	XP_006713650.1	3218	ALLIDLTSNSCRRTSRGSGWK
7697	XP_006713650.1	3235	VGWKRVLRLSLCHSRTRVPLLA
7698	XP_006713650.1	3259	FLMIHVLLILCFTGHLXXXXX
7699	XP_006715390.1	121	REPALSFRAGSCRQRGARSTK
7700	XP_006715390.1	128	AGSCRQRGARSTKPRPPPGP
7701	XP_006715390.1	396	ILNNHGKSKTCCENKEEKCCR
7702	XP_006715390.1	397	LNNHGKSKTCCENKEEKCCRK
7703	XP_006715390.1	404	KTCCENKEEKCCRKDCLKLMK
7704	XP_006715390.1	405	TCCENKEEKCCRKDCLKLMKY
7705	XP_006715390.1	409	NKEEKCCRKDCLKLMKYLLEQ
7706	XP_006716030.1	412	GVDGLRVGMGCGSICITQEVN
7707	XP_006716030.1	416	LRVGMGCGSICITQEVNACGR
7708	XP_006716030.1	604	YTFLPFTKSGCTEDSGGGRGG
7709	XP_006716244.1	265	LAKFHFGDSLCTHKGEIPALP
7710	XP_006716244.1	312	AVGWAHPDTICLMVANTLIGN
7711	XP_006716244.1	342	NLSSKLAQLTCHGNLCHSFQS
7712	XP_006716244.1	369	DTGLWGLYMVCESSTVADMLH
7713	XP_006716244.1	428	ICEDIGRQMLCYNRRIPPEL
7714	XP_006719554.1	157	LEEDHKVEESCAIKNNKEAFS
7715	XP_006719554.1	185	SEKRKEYMDACGEANNQNFQQ
7716	XP_006719554.1	316	RIFGSLPMQACQQKDVFNLYL
7717	XP_006719554.1	482	LTGNSVASSPCPNELDLPVPE
7718	XP_006719554.1	530	SSPDSEVTSLCQKEKAEAPV
7719	XP_006719554.1	556	LLDNGSVVPCNDISNGGSQKL
7720	XP_006720075.1	20	YGHTEGHTEVCFDDSGSFIVT
7721	XP_006720075.1	31	FDDSGSFIVTCGSDGDVRIWE
7722	XP_006720075.1	156	PKDIFLASASCDGSRVWQIS
7723	XP_006720075.1	170	VRVWQISDQTCAISWPLLQKC
7724	XP_006720075.1	180	CAISWPLLQKCNVDVINAKSIC
7725	XP_006720075.1	190	CNDVINAKSICRLAWQPKSGK
7726	XP_006720075.1	264	IIVWNVETKDCMERVKHEKGY
7727	XP_006720075.1	277	RVKHEKGYAICGLAWHPTCGR
7728	XP_006720075.1	285	AICGLAWHPTCGRISYTDAG
7729	XP_006720075.1	304	EGNLGLENVCDPSGKTSSSK
7730	XP_006720075.1	457	MVWNSIGIIRCYNDEQDNAID
7731	XP_006720075.1	501	DLSHEAILLACESTDELASKL
7732	XP_006720075.1	513	STDELASKLHCLHFSSWDSSK
7733	XP_006720075.1	539	LPQNEDEAICLGQGWAAAAT
7734	XP_006720075.1	598	HRGTGFDGDQCLGVQLLELKG
7735	XP_006720075.1	639	WIGFSAEGTPCYVDSEGIVRM
7736	XP_006720075.1	662	RGLGNTWTPICNTREHCKGKS
7737	XP_006720075.1	668	WTPICNTREHCKGKSDHYWVV
7738	XP_006720075.1	689	GIHENPQQLRCIPCKGSRFPP
7739	XP_006720075.1	692	ENPQQLRCIPCKGSRFPPTLP
7740	XP_006720075.1	716	VAILSFKLPYCQIATEKGQME
7741	XP_006720075.1	781	LSCKLEREFRCVELADLMTQN
7742	XP_006720075.1	1006	KNVLSSETPAICPPQNTENQRP
7743	XP_006721126.1	85	EQIALNVDGACADETSTYSSK
7744	XP_006721126.1	103	SSKLMKQTFCSSTNTSNTSR
7745	XP_006721126.1	227	RSEHERQYLLCPGSSGVENTE
7746	XP_006721126.1	350	PHSGVPAEVLCRGRDFVMWKF
7747	XP_006721126.1	378	RKEVATVTKLCAEDVKDFLEH
7748	XP_006721126.1	553	DSFNHPPQGCASPVARELK
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7750	XP_006721126.1	676	NMIQSRLTQECGEDLSKQEVN
7751	XP_006721126.1	692	KQEVDKVLKDCCVSYGGMWYL
7752	XP_006721126.1	693	QEVDKVLKDCCVSYGGMWYLK

7753	XP_006721184.1	55	VNLWSINKPNCIMSLTGHTSP
7754	XP_006721184.1	109	RTLMGHKANICSLDFHPYGEF
7755	XP_006721184.1	226	WDLEKFQVVSCIEGEPGPVRS
7756	XP_006721184.1	244	VRSVLFNPDGCCLYSGCQDSL
7757	XP_006721184.1	245	RSVLFNPDGCCLYSGCQDSL
7758	XP_006721184.1	250	NPDCCLYSGCQDSLRYVYWE
7759	XP_006721184.1	264	LRVYGWEPERCFDVVLVNWGK
7760	XP_006721184.1	281	NWGVADLAIACNDQLIGVAFS
7761	XP_006721184.1	502	SQIRKGHDTMCVVLTSRHKNL
7762	XP_006721184.1	532	GDIKGHTVPHCPTPDGALFAQ
7763	XP_006721184.1	599	SKYESYVQTGCTSLKLLQRF
7764	XP_006721184.1	636	DISREERLHKCRLCYQLKSI
7765	XP_006721184.1	639	REERLHKCRLCYQLKSI SGL
7766	XP_006722424.1	50	GTGLSEKTSVCRQVDIARKRK
7767	XP_006722424.1	95	DPEIVPEEKDCGDAEGNSKKR
7768	XP_006722424.1	206	KRDITVLDLGCCKGGLLKWK
7769	XP_006722424.1	225	WKKGRINKLVCTDIADVSVKQ
7770	XP_006722424.1	236	TDIADVSVKQCQQRVEDMKNR
7771	XP_006722424.1	277	LIDKFRDPQMCFDICSCQFVC
7772	XP_006722424.1	281	FRDPQMCFDICSCQFVCHYSF
7773	XP_006722424.1	283	DPQMCFDICSCQFVCHYSFES
7774	XP_006722424.1	287	CFDICSCQFVCHYSFESYEQA
7775	XP_006722424.1	356	QKKGDYPLFGCKYDFNLEGVV
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7778	XP_006723964.1	177	HQAGKPIGLCCIAPVLAQVVL
7779	XP_006723964.1	221	EAIKALGAKHCVKEVVEAHVD
7780	XP_006723964.1	244	NKVVTTPAFMCETALHYIHDG
7781	XP_006724361.1	156	KGLAAHRLEQCEVPEREEQEQ
7782	XP_006724361.1	225	EPPLEPAEAQCLTAEVPGSPE
7783	XP_006724361.1	410	VAQPLAQLRSCPQEEGPRGRG
7784	XP_006724361.1	541	SHAPSSRGGCSIKAAEDAGT
7785	XP_006724361.1	904	AFSSAEMLVDCVPLVEVDDMM
7786	XP_006724361.1	924	MIMGKPKDPKCVFTYVQSLYN
7787	XP_011507441.1	81	MESKSWHEVNVCVGLPELQLIC
7788	XP_011507441.1	91	CVGLPELQLICLVGTIEGEG
7789	XP_011507441.1	119	PITASLSHNSCTQKKAHMRTO
7790	XP_011507441.1	134	AHMRTOQEGGCLQAKRGLIR
7791	XP_011508999.1	66	LVNRSIQGGFCFNILCVGETG
7792	XP_011508999.1	100	NFEDYESSHFPCPNVKLKAQTY
7793	XP_011508999.1	304	DFVKLREMLICTNMEDLREQT
7794	XP_011508999.1	325	HTRHYELYRCKLEEMGFTDV
7795	XP_011508999.1	454	KDKDRKKEPGCRFELLCIDVR
7796	XP_011508999.1	460	KEPGCRFELLCIDVRACETNG
7797	XP_011508999.1	466	FELLCIDVRACETNGGRKDAE
7798	XP_011508999.1	482	RKDAEKAPIFCKTEVPEHRRS
7799	XP_011508999.1	506	ANFIKKKLEVCDFFAVICFIT
7800	XP_011508999.1	513	LEVCFDFAVICFITSIFGEQP
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7802	XP_011509363.1	636	TIIITGKRANCEAARSRLSI
7803	XP_011509363.1	683	GRLIRSIMEECGGVHIHFPVE
7804	XP_011509363.1	855	DKVTLKGAKDCVEAAKKRIQE
7805	XP_011509363.1	878	EDLEAQVTLCAIPQKFHRSV
7806	XP_011509363.1	940	EAGEGREAKDCDPSRRCIDI
7807	XP_011509363.1	1173	FPQSGAPDPNCVTVTGLPENV
7808	XP_011511551.1	94	AQELGSKVPFCPMVGSEVYST
7809	XP_011511551.1	141	YEGETELTPCETENPMGGYG
7810	XP_011511551.1	206	NSGAVKRQGRCDTYATEFDLE
7811	XP_011511551.1	311	VDEVHMLDIECFYTLHRALES
7812	XP_011511551.1	336	IVIFASNRGNCVIRGTEDITS
7813	XP_011511729.1	102	LSGHPNIVQFCSAASIGKEES
7814	XP_011511729.1	145	KKMESRGPPLSCDTVLKIFYQT
7815	XP_011511729.1	156	DTVLKIFYQTCRAVQHMHRQK
7816	XP_011511729.1	221	RALVEEALGCILYLLCFRQH
7817	XP_011511729.1	227	EALGCILYLLCFRQHPFEDGA
7818	XP_011511729.1	442	PSRFHNRVSECGWAARRAPHL
7819	XP_011511729.1	459	APHLHTLYNICRNMHAWLRQD
7820	XP_011511729.1	474	AWLRQDHKNVCVHCMDGRAA
7821	XP_011511729.1	478	QDHKNVCVHCMDGRAASAVA
7822	XP_011511729.1	490	DGRAASAVAVCSFLCFCLFS
7823	XP_011511729.1	494	ASAVAVCSFLCFCLFSTAEA
7824	XP_011511729.1	496	AVAVCSFLCFCLFSTAEAAV
7825	XP_011511729.1	514	AAVYMFMSMKRCPPIWPSHR
7826	XP_011511729.1	530	PSHKRYIEYMCDMVAEPIITP
7827	XP_011511729.1	565	VPLFSKQSRSGCRPFCEVYVGD
7828	XP_011511729.1	569	SKQSRSGCRPFCEVYVGDERRA

7829	XP_011511729.1	661	VKFAKYDLDACDIQEKYPDLF
7830	XP_011511729.1	871	GAGPAVPPQACKAPSSNTDLL
7831	XP_011511729.1	883	APSSNTDLLSCLLGPPEAASQ
7832	XP_011511729.1	945	LPSSGNNSQPCSNPDLFGEFL
7833	XP_011511729.1	977	PSAHSAPPPSCSADFLHLGDL
7834	XP_011511729.1	1038	LFSPGGQPAPCGSQASWTKSQ
7835	XP_011511729.1	1080	STVSPRGQRVCTCSRRLPTGK
7836	XP_011511729.1	1082	VSPRGQRVCTCSRRLPTGKLG
7837	XP_011511729.1	1108	TGTAASPHRHCGSPAGFPFPG
7838	XP_011511729.1	1156	PPQAKPPPACTQPRPNYASN
7839	XP_011511975.1	503	LHKQPTSEANCSAMFGKLMTI
7840	XP_011512178.1	13	CTISKDFAKNCRAHQGCERGC
7841	XP_011512178.1	19	FAKNCRAHQGCERGCQKAGLS
7842	XP_011512178.1	23	CRAHQGCERGCQKAGLSDAVK
7843	XP_011512178.1	88	ITPLSELVGLCKNNDGRKLIP
7844	XP_011512178.1	111	TLTPEIALYWCALCEYLKSKG
7845	XP_011512178.1	280	LIEAKEALENCITLQDFNRAS
7846	XP_011512178.1	378	HPVVRNLAVLCLGCCGLQNQD
7847	XP_011512178.1	381	VRNLAVLCLGCCGLQNQDFAR
7848	XP_011512178.1	382	RNLAVLCLGCCGLQNQDFARK
7849	XP_011512178.1	438	FKTKKIKTLHCEGTEINSDD
7850	XP_011512178.1	522	VTEEDVQLRHCLGVFFPVFAY
7851	XP_011512178.1	540	FAYASRTNQECFEAFPLPTLQ
7852	XP_011512178.1	606	TVHDNLAMKICNEILTSPCSP
7853	XP_011512178.1	654	EILEQVKDRTCLEALEKIKIQ
7854	XP_011512178.1	737	VTVSARTNRRQCQAEADSESD
7855	XP_011513883.1	191	GRAQRIRQDTCAVDPAAMLWG
7856	XP_011514709.1	23	YAEIGLILIFCLPFIPQQRWQ
7857	XP_011515928.1	49	KIGTNLSLIQCPRVQFQINSH
7858	XP_011515928.1	89	VGWVAKEEGECSARLRTEVRS
7859	XP_011515928.1	320	VLKRLVKVRTCWTRRPMANPT
7860	XP_011515928.1	358	QTTIIHGRKYCGIYIIKWLR
7861	XP_011517144.1	40	AVQNMVSTVECALKHVSDWLD
7862	XP_011517144.1	83	YSKDQGGRTLCGVMRIGLVAK
7863	XP_011517144.1	109	DDMDLELVLMCKDKPETLLN
7864	XP_011517144.1	247	PLKGWPLELICEKSIGTCNRP
7865	XP_011517144.1	254	ELICEKSIGTCNRPGLGAGEAL
7866	XP_011517144.1	270	AGEALRRVMECLASGILLPGG
7867	XP_011517144.1	287	LPGGPGLHDP CERDPTDALS
7868	XP_011517144.1	463	YPTGFDADIECMSSDEKSDNE
7869	XP_011517729.1	28	SKGLQKLRWYQMCQKQCRDE
7870	XP_011517729.1	31	LQKLRWYQMCQKQCRDENG
7871	XP_011517729.1	35	RWYQMCQKQCRDENGFKCHC
7872	XP_011517729.1	43	KQCRDENGFKCHCMSESHQR
7873	XP_011517729.1	45	CRDENGFKCHCMSESHQRQLL
7874	XP_011517729.1	128	FTKWLGREGLCKVDETPKGWY
7875	XP_011518570.1	79	SVRILSRDRNCLDPFTSRQSL
7876	XP_011518570.1	94	TSRQSLQALACYADISVSEGS
7877	XP_011518570.1	122	DVVLESLKCLCNLVLSSPVAQ
7878	XP_011518570.1	286	VNLLGNLPLKCLDVLTLLEPH
7879	XP_011518570.1	341	VAPVLSVLTECARMHRPARKF
7880	XP_011518570.1	406	RVAAEFVFLVLCSESVPRFIKY
7881	XP_011518570.1	529	GHLTSLQDAMCETMEQQLSSD
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7884	XP_011520300.1	23	QKNTANIRNICVLAHVDHGKT
7885	XP_011520300.1	38	VDHGKTTLADCLISSNGIIS
7886	XP_011520300.1	110	SSEVSTAVRICDGCIIIVDAV
7887	XP_011520300.1	113	VSTAVRICDGCIIIVDAVEGV
7888	XP_011520300.1	345	SDPKVQINAICSQWLPISHAV
7889	XP_011520300.1	360	PISHAVLAMVCQKLPSPDIT
7890	XP_011520300.1	379	ITAERVERLMCTGSQTFDSFP
7891	XP_011520300.1	402	TQALKAAFMKCGSEDTAPVII
7892	XP_011520300.1	558	GLPQVPHMAYCALENLVLLMG
7893	XP_011520300.1	599	QDFVLKSATLCSLSPCPPFIP
7894	XP_011520300.1	604	KSATLCSLSPCPPFIPLNFEA
7895	XP_011520300.1	646	GMKLLNQADPCVQILIQETGE
7896	XP_011520300.1	831	DQIWSFGPRKCGPNILVNKSE
7897	XP_011520300.1	891	PMCEEPLMGVCFVLEKWDL
7898	XP_011520300.1	921	AKEGQEEENETCSGGNENQELQ
7899	XP_011520300.1	934	GNENQELQDGCSEAFEKRTSQ
7900	XP_011520300.1	953	SQKGESPLTDCYGFSGQLIA
7901	XP_011520300.1	969	GQLIATMKEACRYALQVKPQR
7902	XP_011520300.1	987	PQRLMAAMYTCDIMATGDVLG
7903	XP_011521075.1	65	ASAHFSPVLRCLASRLSPAWL
7904	XP_011521075.1	141	GRLAVLMEAQCRQQTQPGFIL

7905	XP_011521075.1	222	SFVSQVLGKACVHGRQQEILG
7906	XP_011521075.1	252	TQGSYLHQRVCWRLVEQVPDR
7907	XP_011521075.1	367	QRHVSKAVLICLAQLGPEPELR
7908	XP_011521075.1	393	LLASMMAGVKCRLDSSLPPVR
7909	XP_011521075.1	518	SSKAPAYVRDCVEALTTSEDI
7910	XP_011521075.1	628	LAAQELSRPGCLGRTPQFGSP
7911	XP_011521075.1	644	QPGSPSPNTPCLPEAAVSQPG
7912	XP_011521075.1	741	PMLGLWHGRQCRPHVPDAITC
7913	XP_011521075.1	751	CRPHVPDAITCWALLASSCLS
7914	XP_011521075.1	759	ITCWALLASSCLSRRCTGPTF
7915	XP_011521075.1	764	LLASSCLSRRCTGPTFRAPLV
7916	XP_011521075.1	798	RLAHTLGALMCLAVNNTVAVA
7917	XP_011521075.1	875	DVAEKDPDEDCTLALRALLL
7918	XP_011522750.1	57	VSSLFPDVVNCMQTDNLELKK
7919	XP_011522750.1	95	IMAVNSFVKDCEDPNPLIRAL
7920	XP_011522750.1	112	IRALAVRTMGCIRVDKITEYL
7921	XP_011522750.1	129	TEYLCEPLRKCLKDEDPYVRK
7922	XP_011522750.1	144	DPYVRKTAAVCVAKLHDINAQ
7923	XP_011522750.1	214	INKLLTALNECTEWGQIFILD
7924	XP_011522750.1	225	TEWGQIFILDCLSNYNPKDDR
7925	XP_011522750.1	241	PKDDREAQSICERVTPRLSHA
7926	XP_011522750.1	380	VRKAVRAIGRCAIKVEQSAER
7927	XP_011522750.1	391	AIKVEQSAERCVSTLLDLIQT
7928	XP_011522750.1	433	NKYESIATLTCENLDSLDEPD
7929	XP_011522750.1	565	IEPTLLDELICHIGSLASVYH
7930	XP_011522750.1	864	KNNIDVFYFSCSLIPLNVLFE
7931	XP_011522750.1	964	GNPNYTLCLKRAPEVSQYIY
7932	XP_011522759.1	89	SKEITVRGHNCPPVLFYEA
7933	XP_011522759.1	194	QQVAAEYCRACRLKSTCIYGG
7934	XP_011523944.1	59	ERSDYAGFRACVCQTLGISPE
7935	XP_011523944.1	61	SDYAGFRACVCQTLGISPEEK
7936	XP_011523944.1	444	YDRETYPDDPCFSPSKLKDEDD
7937	XP_011523944.1	458	KKKDEDEDDCFILEKAARGK
7938	XP_011523944.1	474	AARGKRPIFECFWNGRLIPYT
7939	XP_011523944.1	505	PKKRGLAPIECYNRISGALFT
7940	XP_011523944.1	883	HYEETKGPNCVIRGVTAKGP
7941	XP_011523944.1	897	GVTAKGPVNSCQGNYNLKVVT
7942	XP_011523944.1	970	ITAQPKLIVHCKFSGAPNLPV
7943	XP_011523944.1	985	APNLPVYVVDCCSSSGTSILTG
7944	XP_011523944.1	1018	TLKARLEIPSKDVAPVEKTI
7945	XP_011523944.1	1124	VPTSVKDMRYCQVSFQDDHVS
7946	XP_011523944.1	1153	PLPDEPKHLKCEMKGKTVQM
7947	XP_011523944.1	1235	IPGPPGNKDLCTWREFSDFI
7948	XP_011523944.1	1286	DLQNP IIVQLCDQWNPAPVQ
7949	XP_011523944.1	1433	RPPANAETFSCNKIKDNDKED
7950	XP_011523944.1	1445	KIKDNDKEDGCFYFRDKVIPN
7951	XP_011523944.1	1461	KVIPNKVGTYCIQFGFMMDKT
7952	XP_011523944.1	1710	EELKKKPRRSCTLPNYTKGSG
7953	XP_011523944.1	1751	ISWHLASDMDCVVTLTDAAR
7954	XP_011523944.1	1823	LLTFPDNVEHCETVFGMLLGD
7955	XP_011523944.1	1856	YRKEVVKITHCPTLLTRDGDR
7956	XP_011523944.1	1899	MVFGAPVPKQCLILGEQIDLL
7957	XP_011523944.1	1917	DLLQQYRSVAVCKLDSVNKDLN
7958	XP_011523944.1	1967	EKLGMP IIRKCNDSL RHSPKV
7959	XP_011523944.1	1982	RHSPKVETTDPCVPVPRKMRRE
7960	XP_011523944.1	2039	WTAQDYNQNRRCMRGDREKRPL
7961	XP_011523944.1	2056	KRPLVSVRMP CFLHLCFRRPR
7962	XP_011523944.1	2061	SVRMP CFLHLCFRRPRGXXXX
7963	XP_011525909.1	21	GARGAATAMDCKDRPAFPVKK
7964	XP_011525909.1	79	EASLDTLENNCHVGSIDFRP
7965	XP_011525909.1	181	FPGETLSDIPCKTEEEGVGCG
7966	XP_011525909.1	190	PCKTEEEGVGCGGAGRRGDSQ
7967	XP_011525909.1	202	GAGRRGDSQECSPRSCEELTS
7968	XP_011525909.1	207	GDSQECSPRSCEELTS GPRMC
7969	XP_011525909.1	217	CPELTSGPRMCPRKEQDSWSE
7970	XP_011525909.1	446	PQAPKTLAGSCGKFAPFEIKE
7971	XP_011525909.1	473	RRRTAFHPDLCSQLDQLLQQQ
7972	XP_011525909.1	544	KFGRMKLLQFCENHRPAYWGT
7973	XP_011525909.1	632	LSEDEGVTEECADPENHKVRQ
7974	XP_011525909.1	669	FRVLQPVKIGCVWAADRDCAG
7975	XP_011525909.1	691	DLKVLQQFAACFLETLP AQEE
7976	XP_011525909.1	742	KVI IREFQEHCRRLSNHTG
7977	XP_011525909.1	798	VYEKRPDFRMCWYVHPVQLQS
7978	XP_011525909.1	818	SFQQEHLVPVPCQWSYVTSVPS
7979	XP_011525909.1	859	SLKRKSAGSMCITQFMKRRRH
7980	XP_011525909.1	895	TEEEEEEGDCMIVDVPDAAE

7981	XP_011525909.1	910	VPDAAEVQAPCGAASGAGGGV
7982	XP_011529175.1	62	ETGKPKGYGFCEYQDQETALS
7983	XP_011529430.1	2067	LEDGTCRVTYCPTPEPGNYIIN
7984	XP_011529430.1	2503	VFVDSLTKATCAPQHGAAPGPG
7985	XP_011530335.1	171	PVEFTQENPFRCFKAVGYSCM
7986	XP_011530590.1	26	LDDDGLPHGFCTVTVYSSTRDF
7987	XP_011530590.1	119	QYKDNIRHGVCWIYYPDGSSL
7988	XP_011530590.1	303	HKANHSFTPNCIYDIGQKNHL
7989	XP_011530590.1	316	DIGQKNHLGTCKRSRFGAPLP
7990	XP_011530775.1	113	KLLQKVFNDTCRSGGLGGSHA
7991	XP_011530775.1	130	GSHALLLLRSCGSLPELKLE
7992	XP_011530775.1	208	VTYQRLIASYCNVGDIEGASK
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7999	XP_011530775.1	722	GGYAALINLCCRHDKVEDALN
8000	XP_011530775.1	927	RARSARLQWFCDRCVANNQVE
8001	XP_011530775.1	930	SARLQWFCDRCVANNQVETLE
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8003	XP_011530775.1	1043	PDFQKDILIAICRLNQQKDAYD
8004	XP_011531169.1	176	VDSIQRKLGLCEFPDNDQFSN
8005	XP_011531169.1	199	ALLIQIGPKCEVLPGETAGD
8006	XP_011531169.1	404	FQRQAANLQDCYRLYQGINQL
8007	XP_011531169.1	641	RIILKASRHACVEVQDEIAFI
8008	XP_011531169.1	697	LMAQIGCFVPCESAIVDC
8009	XP_011531169.1	707	CESAIVSIVDCILARVAGDS
8010	XP_011531169.1	778	EYIATKIGAFCMFATHFHFLT
8011	XP_011531169.1	889	NLRVTEPKDQCLILLTWKRKL
8012	XP_011531169.1	907	RKLRGGKRSACSRPERQNGS
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8016	XP_011531400.1	209	CNEFSQIFQLCQFVMENSQNA
8017	XP_011531400.1	267	VPMFRNVSLKCLTEIAGVSVS
8018	XP_011531400.1	327	NFIQNLSLFLCTFLKHEHQLI
8019	XP_011531400.1	369	EVEETEIFKICLEYWNHLAAE
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8021	XP_011531400.1	585	ETHDGVQDMACDTFKIAQKC
8022	XP_011531400.1	595	CDTFIKIAQKRRHFVQVQVG
8023	XP_011531400.1	623	EILNNTIICDLQPQONVDI
8024	XP_011531400.1	654	GSILKTNVRACKAVGHPFVIQ
8025	XP_011531400.1	678	IYLDMLNVYKCLSENI SAAIQ
8026	XP_011531400.1	784	IPQIFDAVFECTLMINKDFE
8027	XP_011531400.1	814	FLLQAVNSHCFFAFLAIPPT
8028	XP_011531400.1	875	AAQSFYQTYFCDILQHIFSVV
8029	XP_011531777.1	42	AGAMERAVVRCVPSEPKLSLS
8030	XP_011531777.1	180	PRYIMAGFPVCPKLSLEFGDP
8031	XP_011531777.1	250	ADIGLRLKLHCTPGDGQRFGH
8032	XP_011531777.1	268	FGHSRELESVCVVEAGPGTCT
8033	XP_011531777.1	277	VCVVEAGPGTCTFDHRHLYTK
8034	XP_011531777.1	321	EFSTRVLYPYCAPYALELDYR
8035	XP_011531777.1	348	ELTGYNADVICLQEVDRVFS
8036	XP_011531777.1	451	QSTKDSSKRICVANHTLYWHP
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8040	XP_011532093.1	188	QQAQVQILPECVLPSTMSAVQ
8041	XP_011532093.1	205	SAVQLESLNKCQIFSPKPVSR
8042	XP_011532093.1	219	PSKPVSRDQCSYKWWQKYQK
8043	XP_011532093.1	234	WQKYQKRKFHCANLTSWPRWL
8044	XP_011532093.1	310	KIGSAIQRLRCELDIMNKCTS
8045	XP_011532093.1	318	LRCELDIMNKCTSLCCKQCQE
8046	XP_011532093.1	322	LDIMNKCTSLCCKQCQETEIT
8047	XP_011532093.1	323	DIMNKCTSLCCKQCQETEITT
8048	XP_011532093.1	326	NKCTSLCCKQCQETEITTKNE
8049	XP_011532093.1	347	IFRYAWTVAQCKICASHIGWK
8050	XP_011532093.1	350	YAWTVAQCKICASHIGWKFTA
8051	XP_011532690.1	27	DERLLSIVNVCKAGKKKNC
8052	XP_011532690.1	36	VCKAGKKKNCFLCATVTER
8053	XP_011532690.1	39	AGKKKNCFLCATVTERPVQ
8054	XP_011532690.1	185	EQDIEIMMEGEYAI SNAEAF
8055	XP_011532690.1	311	DLASSRGI EACTNAADALLQC
8056	XP_011532690.1	321	CTNAADALLQCMNVALRPGHD

8057	XP_011532690.1	551	EQVLSELEPLCLAEQDFISKF
8058	XP_011532690.1	591	DGGTLSRQHNCGTPLPVSSEK
8059	XP_011532690.1	614	IRQMMIKIFRCIEPELNLI
8060	XP_011532690.1	675	LVTVKRNFDKCISNQIRQME
8061	XP_011532690.1	772	FATLSRLKISCLEAEKKEAKQ
8062	XP_011532690.1	862	NLYKKVDKHLCEENLLQVW
8063	XP_011532690.1	893	YKHFEGLIARCYPGSGVTMEF
8064	XP_011532690.1	912	EFTIQDILDYCSSIAQSHXXX
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8067	XP_011533477.1	164	KYMSTCRLILCCNSTSKVIPP
8068	XP_011533477.1	165	YMSTCRLILCCNSTSKVIPPI
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8070	XP_011533477.1	193	RVPAPSIEDICHVLSVCKKE
8071	XP_011533477.1	200	EDICHVLSVCKKEGLNLPSQ
8072	XP_011533477.1	220	QLAHLRLAEKSCRNLRKALLMC
8073	XP_011533477.1	230	CRNLRKALLMCEACRVQQYPF
8074	XP_011533477.1	233	LRKALLMCEACRVQQYPFAD
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8086	XP_011533633.1	402	IKHVDHFGFICRESPEPGLSQ
8087	XP_011533633.1	415	SPEPGLSQYICYVFCASESL
8088	XP_011533633.1	420	LSQYICYVFCASESLVDEVM
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8090	XP_011533633.1	456	AKTQIKLCEACPMHSLHKLCE
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8092	XP_011533633.1	848	VKLDYEEVGACQKEVLITWDK
8093	XP_011533633.1	863	LITWDKLLNCRAKIRCDMED
8094	XP_011533633.1	869	KLLNCRAKIRCDMEDIHTLLK
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8096	XP_011533633.1	1156	QDELQESSYSCEDESLEKLE
8097	XP_011533633.1	1240	KLLPADALVNCDLLLRDLNCN
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8103	XP_011534203.1	277	DGSKGKLNHLGADFVKSHQK
8104	XP_011534203.1	300	QGMEIKSNERCCSFDGDADRI
8105	XP_011534203.1	301	GMEIKSNERCCSFDGDADRIV
8106	XP_011534203.1	376	LEEVMKVPVYCTKTGVKHLHH
8107	XP_011534923.1	2136	IEDLGLNFQFCPSSRIYGFTA
8108	XP_011536034.1	191	STAVDIWSLGCIFAEMHLVGT
8109	XP_011536034.1	207	HLVGTQHHARCCGEHRRNGRQ
8110	XP_011536034.1	208	LVGTQHHARCCGEHRRNGRQS
8111	XP_011536034.1	220	EHRRNGRQSLCPLCSYLEVA
8112	XP_011536034.1	223	RNGRQSLCPLCSYLEVAASQG
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8115	XP_011536399.1	59	DLWAACLYRSCLLLGATIGVA
8116	XP_011536399.1	90	RASWLVIITLVCLFVGIYAMVK
8117	XP_011536399.1	233	DQFSTAVVIVCLLAIGSSFAA
8118	XP_011536399.1	264	FARLNIRLRNCLFRSLVSQET
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8124	XP_011540947.1	275	AYVTERQKVHCLNTLFSRLQI
8125	XP_011542150.1	41	PRPSPETQCKFDGQETKGS
8126	XP_011542150.1	131	NFADSYDYICIIDFEATCEE
8127	XP_011542150.1	139	YICIIDFEATCEEENPPEFVH
8128	XP_011542150.1	186	PEINTQLSDFCISLTGITQDQ
8129	XP_011542150.1	243	WDMKFLNIQCQLSRLKYPFF
8130	XP_011542150.1	292	PQLVWEGNLTCDASGRCLKLL
8131	XP_011542226.1	254	DKDLKQYLDCCGNIINMHNVK
8132	XP_011542435.1	290	ESAIEKHFLDCGSIMAVRIVR

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8134	XP_011544117.1	42	VPPFPLPLEPCTQEFWRALA
8135	XP_011544117.1	114	LENKDIGQSCRYFKERKNIT
8136	XP_011544117.1	136	DIRTKSLQPRCTMVEAFDRWG
8137	XP_011544117.1	179	PDLKLPDFSYCILERLGRSRW
8138	XP_011544117.1	286	LGKLRBELGLCERTFKRLYQY
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8140	XP_011544117.1	320	LQEIHPCEGPKTKKGTDMV
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8146	XP_011544117.1	655	EKQEGVSTKCKKSIVRLVRN
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8151	XP_011544117.1	1045	ENYWFDLQCVCLNTPLGVVRC
8152	XP_011544117.1	1055	CLNTPLGVVRCPRVRKNSSTD
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8158	XP_011544117.1	1505	AFSLDGGPGNCVAVLTLFSLG
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8160	XP_011544117.1	1624	NSCQMKFQLRCTPVPARLRPA
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8166	XP_011544117.1	2032	PMAFYEPTLDCTLRLGRVFPH
8167	XP_011544196.1	185	KAEENKKEPLCRQKQHRKVL
8168	XP_011544196.1	267	LLGVLGSNSICGCNQRHCAGE
8169	XP_011544196.1	269	GVLGSNSICGCNQRHCAGEMA
8170	XP_011544196.1	274	NSICGCNQRHCAGEMAFLKA
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8179	XP_011544301.1	967	CLWGGGSGDLCHTGGCLMSGP
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