

Multi-antigen pan-sarbecovirus DNA vaccines generate protective T cell immune responses

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Supplemental Methods. Key resources tables

REAGENT or RESOURCE	SOURCE	IDENTIFIER
Antibodies		
CD3ε- PerCP-Cy5.5 (clone 145-2C11)	BioLegend	100328
CD4- Brilliant Violet 605 (clone (RM4-5)	BioLegend	100547
CD8α- APC-Fire750 (clone 53-6.7)	BioLegend	100766
CD8α-Brilliant Violet 421 (clone 53-6.7)	BioLegend	100753
IL-2 APC (clone JES6-5H4)	BD Biosciences	554429
TNF FITC (clone MP6-XT22)	BioLegend	506304
IFNγ PE-Cy7 (clone XMG1.2)	BD Biosciences	557649
CD154 PE (clone MR1)	Invitrogen	12-1541-82
CD3ε NA/LE (clone 145-2C11)	BD Pharmingen	553057
CD28 NA/LE (clone 37.51)	BD Pharmingen	553294
OX40 (clone OX-86)	made in-house	n.a.
HRP-conjugated anti-mouse IgG	Southern Biotech	1030-05
HRP-conjugated anti-mouse IgG2c	Southern Biotech	1079-05
Tetramers		
H2-K ^b /VNFNFNGL APC	LUMC tetramer facility	H2-K ^b /S
H2-K ^b /RTLSYYKL PE	LUMC tetramer facility	H2-K ^b /M
H2-K ^b /TGYHFREL PE	LUMC tetramer facility	H2-K ^b /ORF1ab
Buffers and media		
Fixation Buffer	BioLegend	420801
Intracellular Staining Permeabilization Wash Buffer	BioLegend	421002
ammonium chloride lysis buffer	LUMC Pharmacy	n.a.
PBS	LUMC Pharmacy	n.a.
Bovine Serum Albumin Fraction V (BSA)	Roche	10735086001
PBS/0,1% BSA/0,02% NaAzide	made in-house	n.a.
PBS/0,5% BSA/0,02% NaAzide	made in-house	n.a.
rhIL-2	Cetus corporation	201-0301
IMDM	Lonza/Capricorn Scientific	/IMDM-A
Fetal Bovine Serum (FBS)	Bodinco BV	S00FD10003
B-mercaptoethanol (2-ME)	Merck	8057400259
L-glutamine (L-Glut)	Gibco	25030-024

Penicillin/Streptomycin (PS)	Gibco	15140-122
IMDM/8%FBS/25μM 2-ME/2mM L-Glut/100 U/ml PS	made in-house	n.a.
ELISA coating buffer	BioLegend	421701
Chemicals		
poly(I:C) LMW	InvivoGen	tlrl-picw
SARS-CoV spike S1+S2 ECD-His	Sino Biological	40634-V08B
SARS-CoV-2 (2019-nCoV) spike S1+S2 ECD-His	Sino Biological	40589-V08B1
SARS-CoV-2 B.1.1.529 (Omicron) S1+S2 ECD-His	Sino Biological	40589-V08H26
TMB	Sigma-Aldrich	T4444-100ML
Experimental models: organisms, strains		
SARS-CoV-2/human/NLD/Leiden-0008/2020	isolated in-house	n.a.
C57BL/6Rj	Janvier Labs, France	n.a.
B6.Cg-Tg(K18-ACE2)2PrImn/J	Jackson Laboratory (bred in-house)	IMSR_JAX:034860
D1 cells	Paola Ricciardi-Castagnoli	n.a.
Software and algorithms		
FACSDiva v9.0	BD Biosciences	n.a.
FlowJo v10.8	BD Biosciences	n.a.
GraphPad Prism v9.4.1	Dotmatics	n.a.

SYNTHETIC PEPTIDES (produced in-house)				
amino acid sequence	protein (aa)	CoVAX Ag	application	experiment
WLLWPVTLACFVLAAYRIN	M (55-74)	MNS #1	ICS	Figure 3, B-D (n.s.)
VTLACFVL	M (60-67)	MNS #1	ICS	Figure 3, B-D (n.s.)
LGRCDIKDLPKEITVATSRTLSYYKLGASQRV	M (156-187)	MNS #9	ICS	Figure 3, B-D (n.s.)
RTLSYYKL	M (174-181)	MNS #9	ICS	Figure 3, B-D
WPQIAQFAPSASAFFGMSRIGMEVTP	N (301-326)	MNS #11	ICS	Figure 3, B-D (n.s.)
SASAFFGM	N (310-317)	MNS #11	ICS	Figure 3, B-D (n.s.)
SAFFGMRSI	N (312-320)	MNS #11	ICS	Figure 3, B-D (n.s.)
VILLNKHIDAYKTFPPTPKDKKKK	N (350-375)	MNS #7	ICS	Figure 3, B-D (n.s.)
VILLNKHID	N (350-358)	MNS #7	ICS	Figure 3, B-D (n.s.)
LSTDLIKNQCVNFNFGTLGTGVLTPSS	S* (515-542)	rep #1	ICS	Figure 3, B-D/ Figure 3, F-H (n.s.)
VNFNFNGL	S* (525-532)	rep #1	ICS	Figure 3, B-D / Figure 3, F-H
IKNQCVNFNFGTLGTGVLTESNK	S** (n.a.)	n.a.	ICS	Figure 4 (n.s.)
KRSFIEDLLFNKVTLADAGF	S (814-833)	MNS #3	ICS	Figure 4 (n.s.)
ARDLICAQKFNGTLVLPPLTD	S (846-867)	MNS #2	ICS	Figure 4 (n.s.)
ALQIPFAMQMAYRFNGIGVTQNVLYENQK	S (893-921)	MNS #10	ICS, IVE	Figure 4, D and E
LSSNFGAISSVLNDILSRDKVEAE	S (966-990)	MNS #4	ICS	Figure 4 (n.s.)
VQIDRLITGRQLSLQTYVTQQLIRAAEIRA	S (991-1020)	MNS #4	ICS, IVE	Figure 3, B-D (n.s.)/ Figure 4, A-C
QTYVTQQL	S (1005-1012)	MNS #4	ICS	Figure 3, B-D (n.s.)
NNTVYDPLQPELDSFKEELDKYFKNHTSPD	S (1134-1163)	MNS #5	ICS	Figure 4 (n.s.)
FNVLFTSV	ORF1ab (4705-4712)	ORF1ab #16	ICS	Figure 3, F-H (n.s.)
TVFPPTSFGPL	ORF1ab (4711-4721)	ORF1ab #16	ICS	Figure 3, F-H (n.s.)
STGYHFREL	ORF1ab (4735-4743)	ORF1ab #16	ICS	Figure 3, F-H (n.s.)
TGYHFREL	ORF1ab (4736-4743)	ORF1ab #16	ICS	Figure 3, F-H
RAMPNMLRIM	ORF1ab (5016-5025)	ORF1ab #17	ICS	Figure 3, F-H (n.s.)
RAMPNMLRI	ORF1ab (5016-5024)	ORF1ab #17	ICS	Figure 3, F-H (n.s.)
TAYANSVFNI	ORF1ab (5079-5088)	ORF1ab #14	ICS	Figure 3, F-H (n.s.)
LMIERFVSL	ORF1ab (5246-5254)	ORF1ab #13	ICS	Figure 3, F-H (n.s.)
MIERFVSL	ORF1ab (5247-5254)	ORF1ab #13	ICS	Figure 3, F-H (n.s.)
LAIDAYPL	ORF1ab (5254-5261)	ORF1ab #13	ICS	Figure 3, F-H (n.s.)
VTQLYLGGM	ORF1ab (5384-5392)	ORF1ab #15	ICS	Figure 3, F-H (n.s.)

Membrane (M), nucleoprotein (N), spike (S) and ORF1ab amino acid positions mentioned under protein (aa) are based on SARS-CoV-2 (NC_045512.2), except those marked with *, which derive from SARS-CoV-1. **This sequence does not occur in the wild but is a hybrid of SARS-CoV spike 520-538 (IKNQCVNFNFGTLGTGVL) and SARS-CoV-2 spike 538-557 (CVNFNFGTLGTGVLTESNK). The sequence CVNFNFGTL is shared among sarbecoviruses. CoVAX_MNS and CoVAX_ORF1ab DNA vaccine antigens can be found in Supplemental tables 3 and 4, respectively. ICS: intracellular cytokines staining. IVE: in vitro expansion. n.a.: not applicable. n.s.: data not shown.

Supplemental Table 1. Sarbecoviruses (discovery)

GenBank	Organism	isolate	host
NC_045512.2	SARS coronavirus 2	Wuhan-Hu-1	<i>Homo sapiens</i>
MN988713.1	SARS coronavirus 2	SARS-CoV-2/human/USA/IL-CDC-02983522-001/2020	<i>Homo sapiens</i>
MN985325.1	SARS coronavirus 2	SARS-CoV-2/human/USA/WA-CDC-02982586-001/2020	<i>Homo sapiens</i>
MN938384.1	SARS coronavirus 2	2019-nCoV_HKU-SZ-002a_2020	<i>Homo sapiens</i>
MN975262.1	SARS coronavirus 2	2019-nCoV_HKU-SZ-005b_2020	<i>Homo sapiens</i>
AY278489.2	SARS coronavirus	GD01	<i>Homo sapiens</i>
AY278488.2	SARS coronavirus	BJ01	<i>Homo sapiens</i>
AY274119	SARS coronavirus	Tor2	<i>Homo sapiens</i>
FJ882957.1	SARS coronavirus	MA15	<i>Mus musculus</i>
AY572034.1	SARS coronavirus	civet007	<i>Civet</i>
MG772933	Bat SARS-like coronavirus	bat-SL-CoVZC45	<i>Rhinolophus pusillus</i>
MG772934	Bat SARS-like coronavirus	bat-SL-CoVZXC21	<i>Rhinolophus pusillus</i>
DQ412043.1	Bat SARS-like coronavirus	Rm1	<i>Rhinolophus macrotis</i>
KY417144.1	Bat SARS-like coronavirus	Rs4084	<i>Rhinolophus sinicus</i>
DQ071615	Bat SARS-like coronavirus	Rp3	<i>Bat</i>
DQ022305	Bat SARS-like coronavirus	HKU3-1	<i>Rhinolophus</i>
GU190215	Bat coronavirus	BtCoV/BM48-31/BGR/2008	<i>Rhinolophus blasii</i>

To obtain a cross-section of all sarbecovirus branches, sarbecoviruses were selected from Figures 3 in references 46 and 47, based on the availability of full genomic sequences.

Supplemental Table 2. Sarbecoviruses (verification)

GenBank	organism	isolate	host
NC_045512.2	SARS coronavirus 2	Wuhan-Hu-1	<i>Homo sapiens</i>
MN996529.1	SARS coronavirus 2	WIV05	<i>Homo sapiens</i>
MT093571.1	SARS coronavirus 2	SARS-CoV-2/human/SWE/01/2020	<i>Homo sapiens</i>
MN988713.1	SARS coronavirus 2	SARS-CoV-2/human/USA/IL-CDC-02983522-001/2020	<i>Homo sapiens</i>
MT072688.1	SARS coronavirus 2	SARS-CoV-2/human/NPL/61-TW/2020	<i>Homo sapiens</i>
MN994467.1	SARS coronavirus 2	SARS-CoV-2/human/USA/CA-CDC-02993471-001/2020	<i>Homo sapiens</i>
AP006560.1	SARS coronavirus	TWS	<i>Homo sapiens</i>
AP006557.1	SARS coronavirus	TWH	<i>Homo sapiens</i>
AY485277.1	SARS coronavirus	Sino1-11	<i>Homo sapiens</i>
AY278488.2	SARS coronavirus	BJ01	<i>Homo sapiens</i>
AY274119	SARS coronavirus	Tor2	<i>Homo sapiens</i>
FJ959407.1	SARS coronavirus	A001	<i>palm civet</i>
AY572038.1	SARS coronavirus	civet020	<i>Civet</i>
AY572034.1	SARS coronavirus	civet007	<i>Civet</i>
KY417146.1	Bat SARS-like coronavirus	Rs4231	<i>Rhinolophus sinicus</i>
KC881006.1	Bat SARS-like coronavirus	Rs3367	<i>Rhinolophus sinicus</i>
KF367457.1	Bat SARS-like coronavirus	WIV1	<i>Rhinolophus sinicus</i>
KY417144.1	Bat SARS-like coronavirus	Rs4084	<i>Rhinolophus sinicus</i>
KC881005.1	Bat SARS-like coronavirus	RsSHC014	<i>Rhinolophus sinicus</i>
KY417152.1	Bat SARS-like coronavirus	Rs9401	<i>Rhinolophus sinicus</i>
KY417151.1	Bat SARS-like coronavirus	Rs7327	<i>Rhinolophus sinicus</i>
KY417145.1	Bat SARS-like coronavirus	Rf4092	<i>Rhinilophus ferrumequinum</i>
KY417147.1	Bat SARS-like coronavirus	Rs4237	<i>Rhinolophus sinicus</i>
KY417148.1	Bat SARS-like coronavirus	Rs4247	<i>Rhinolophus sinicus</i>
KY417142.1	Bat SARS-like coronavirus	As6526	<i>Aselliscus stoliczkanus</i>
KY417143.1	Bat SARS-like coronavirus	Rs4081	<i>Rhinolophus sinicus</i>
FJ588686.1	Bat SARS-like coronavirus	Rs672	<i>Rhinolophus sinicus</i>
KP886809.1	Bat SARS-like coronavirus	YNLF_34C	<i>Rhinolophus Ferrumequinum</i>
KF569996.1	Bat SARS-like coronavirus	LYRa11	<i>Rhinolophus affinis</i>
GQ153542.1	Bat SARS-like coronavirus	HKU3-7	<i>Rhinolophus bat</i>
DQ022305	Bat SARS-like coronavirus	HKU3-1	<i>Rhinolophus bat</i>
MN996532.2	Bat SARS-like coronavirus	RaTG13	<i>Rhinolophus affinis</i>

MG772933.1	Bat SARS-like coronavirus	bat-SL-CoVZC45	<i>Rhinolophus pusillus</i>
MG772934.1	Bat SARS-like coronavirus	bat-SL-CoVZXC21	<i>Rhinolophus pusillus</i>
KT444582.1	Bat SARS-like coronavirus	WIV16	<i>Rhinolophus sinicus</i>
GU190215	Bat coronavirus	BtCoV/BM48-31/BGR/2008	<i>Rhinolophus blasii</i>
MW532698.1	Pangolin coronavirus	GX_P2V	<i>Pangolin</i>
MT040336.1	Pangolin coronavirus	PCoV_GX-P5E	<i>Manis javanica</i>
MT040335.1	Pangolin coronavirus	PCoV_GX-P5L	<i>Manis javanica</i>
MT040334.1	Pangolin coronavirus	PCoV_GX-P1E	<i>Manis javanica</i>
MT072865.1	Pangolin coronavirus	PCoV_GX-P3B	<i>Pangolin</i>
MT040333.1	Pangolin coronavirus	PCoV_GX-P4L	<i>Manis javanica</i>

To obtain cross-section of all sarbecovirus branches, all sarbecoviruses from <https://nextstrain.org/groups/blab/sars-like-cov> (reference 52) were selected, provided that their full genomic sequences were available.

Supplemental Table 3. Shared sarbecovirus antigens included in CoVAX_MNS

#	protein	AA (protein)	AA (vaccine)	sequence
1	M	53-75	3-25	FLWLLWPVTLACFVLAAYRINW
2	S	846-867	29-50	ARDLICAQKFNGTLVLPPLTD
3	S	814-833	54-73	KRSFIEDLLFNKVTADAGF
4	S	966-920	77-131	LSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA
5	S	1134-1163	135-164	NNTVYDPLQPELDSFKEELDKYFKNHTSPD
6	M	98-124	168-194	ASFRLFARTRSMWSFNPETNILLNVPL
7	N	350-375	198-223	VILLNKHIDAYKTFPTEPKKDKKKK
8	S	944-979	227-262	ALGKLQDVVNQNAQALNTLVKQLSSNFGAISSVLND
9	M	156-178	266-297	LGRCDIKDLPKEITVATS RTL SYKLGASQRV
10	S	893-921	301-329	ALQIPFAMQMAYRFNGIGVTQNVLYENQK
11	N	301-326	333-358	WPQIAQFAPSASAFFGMSRIGMEVTP
12	N	239-266	362-389	QQQQGQTVTKKSAEASKKPRQKRTATK
13	N	158-191	393-426	VLQLPQGTTLPKGFYAEGSRGGSQASSRSSRSR
14	N	38-62	430-454	KQRRPQGLPNNTASWFTALTQHGKE
15	N	268-289	458-479	YNVTQAFGRRGPEQTQGNFGDQ
16	N	132-151	483-502	WVATEGALNTPKDHIGTRNP
17	S	1007-1054	506-553	YVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPQ
rep1	S*	356-384	557-585	YNSTFFSTFK CYGV SATKLNDLCFSNVYA
rep2	S*	515-542	588-615	LSTDLIKNQ CVN F FN GLTGTGVLTPSS
rep3	S	1210-1238	619-647	IKWPWYIWL GFIAGLIAIV MVTIMLCCMT
tag	HA	-	652-660	YPYDVDPYA

Amino acid positions are based on the NC_045512.2 M, N and S proteins. Three C-terminal non-shared reporter antigens from SARS-CoV-1 or SARS-CoV-2 spike were added to facilitate tracking of CD8 T cell immune responses in BALB/c (K^d/K)CYGV**SATKL**), C57BL/6 (K^b/VN**FN**FN**GL**) and HLA-A2-transgenic (HLA-A*02:01/**FIAGLIAIV**) mice. The N-terminus of the vaccine (AA 1-2) coded for MG to obtain a Kozak-optimised translation start site, antigens were separated by triple-alanine-spacers, and the C-terminus of the polyprotein consisted of an HA-tag for Western blot and FACS detection. In CoVAX_MNS_norep (see Supplemental Table 5), the reporter antigens (residues 554-647) were deleted.

*SARS-CoV-1 sequence.

Supplemental Table 4. Shared sarbecovirus antigens included in CoVAX_ORF1ab

#	ORF1ab protein	AA (protein)	AA (vaccine)	sequence
1	nsp12	5137-5160	3-26	FYAYLRKHFSMMILSDDAVVCFNS
2	nsp13	5603-5645	30-72	TLQGPPGTGKSHFAIGLALYYPSARIVYTACSHAAVDALCEKA
3	nsp13	5683-5744	76-137	TVNALPETTADIVVFDEISMATNYDLVVNARLRKHYVYIGDPAQLPAPRTLLTKGTLEPE
4	nsp12	4799-4858	141-200	FQTVKPGNFNKFDFYDAVSKGFFKEGSSVELKHFFFAQDGNAAISDYDYRYNLPTMCDI
5	nsp13	5497-5526	204-233	RPPLNRNVVFTGYRVTKNSKVQIGEYTFEK
6	nsp7	3859-3879	237-257	QSKMSDVKCTSVVLLSVLQQL
7	nsp12	4885-4917	261-293	VIVNNLDKSAGFPFNKWKARLYYDSMSYEDQD
8	nsp12	4919-4990	297-368	LFAYTKRNVIPITITQMNLYAISAKNRARTVAGVSICTMTNRQFHQKLLKSIAATRGATVVIGTSKFYGGW
9	nsp12	5178-5210	372-404	LYYQNNVFMSEAKCWTETDLTKGPFHFCSQHTM
10	nsp12	4591-4615	408-432	AGIVGVLTLDNQDLNGNWYDFGDFI
11	nsp13	5454-5467	436-449	LKLFAAETLKATEE
12	nsp8	3999-4043	453-497	RKLEKMADQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND
13	nsp12	5220-5264	501-545	YLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKH
14	nsp12	5043-5088	549-594	RFYRLANCAQVLSEMVVMCGGSLYVKPGGTSSGDATTAYANSVFNI
15	nsp13	5329-5396	598-665	CVLCNSQTSRLRCGACIRRPFLCKCCYDHVISTSHKLVLSVNPVVCNAPGCDVTDVTQLYLGGMSYYC
16	nsp12	4695-4746	669-720	DDRCILHCANFNVLFSTVFPTSFGLVVRKIFVDGVFPFVVSTGYHFRELGVV
17	nsp12	5004-5034	724-754	PHLMGWDYPKCDRAMPNMLRIMASLVLRKH
rep	S*	356-384	758-786	YNSTFFSTFK CYGV SATKLNDLCFSNVYA
rep	S*	515-542	789-816	LSTDLIKNC VN FNFNGLTGTGVLPSS
rep	S	1210-1238	820-848	IKWPWYIWLGF FIAGLIA IVMVTIMLCCMT
tag	- (HA)	-	853-861	YPYDVDPYA

Amino acid positions are based on the ORF1ab protein of NC_045512.2. Three C-terminal non-shared reporter antigens from SARS-CoV-1 or SARS-CoV-2 spike were added to facilitate tracking of CD8 T cell immune responses in BALB/c (Kd/(K)CYGV**SATKL**), C57BL/6 (Kb/VN**FNFNGL**) and HLA-A2-transgenic (HLA-A*02:01/FA**GLIAIV**) mice. The N-terminus of the vaccine (AA 1-2) coded for MG to obtain a Kozak-optimised translation start site, antigens were separated by triple-alanine-spacers, and the C-terminus of the polyprotein consisted of an HA-tag for Western blot and FACS detection. In CoVAX_ORF1ab_norep (see Supplemental Table 5), the reporter antigens (residues 755-848) were deleted. *SARS-CoV-1 sequence

Supplemental Table 5. Plasmid DNA ORFs

#	name	description	amino acid sequence
p380	CoVAX_MNS	see Table S3	MGFLWLLWPVTLACFVLAAYRINWAAAARDLICAQKFNGTLVLPPLTDAAAKR SFIEDLLFNKVTLADAGFAAALSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRQLSL QTYVTQQLIRAAEIRAAAAANNTVYDPLQPELDSFKEELDKYFNHTSPDAAAASFRL FARTRSMWSFNPETNILLNVPLAAAVILLNKHIDAYKTFPPTPEKKDKKKKAAALG KLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDAAALGRCDIKDLPEITVATSRTL SYYKLGASQVRAAAALQIPFAMQMAYRFNGIGVTQNVLYENQKAAAWPQIAQFA PSASAFFGMSRIGMEVTPAAAQQQGQTVTKSAAEASKKPRQKRTATKAAAVL QLPQGTTLPGFYAEGSRGGSQASSRSSRSRAAAKQRRPQGLPNNNTASWFTALT QHGKEAAAYNVTAQFGRRGPEQTQGNFGDQAAAWVATEGALNTPKDHIGTRN PAAAYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLMSPFQAAA YNSTFFSTFKCYGVSATKLNDLCFSNVYAAALSTDILKNQCVNFNGLTGTGVLTP SSAAAIKWPPWYIWLGFIAGLIAIVMVTIMLCCMTGSGSYPDVDPDYA
p413	CoVAX_MNS_norep	see Table S3	MGFLWLLWPVTLACFVLAAYRINWAAAARDLICAQKFNGTLVLPPLTDAAAKR SFIEDLLFNKVTLADAGFAAALSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRQLSL QTYVTQQLIRAAEIRAAAAANNTVYDPLQPELDSFKEELDKYFNHTSPDAAAASFRL FARTRSMWSFNPETNILLNVPLAAAVILLNKHIDAYKTFPPTPEKKDKKKKAAALG KLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDAAALGRCDIKDLPEITVATSRTL SYYKLGASQVRAAAALQIPFAMQMAYRFNGIGVTQNVLYENQKAAAWPQIAQFA PSASAFFGMSRIGMEVTPAAAQQQGQTVTKSAAEASKKPRQKRTATKAAAVL QLPQGTTLPGFYAEGSRGGSQASSRSSRSRAAAKQRRPQGLPNNNTASWFTALT QHGKEAAAYNVTAQFGRRGPEQTQGNFGDQAAAWVATEGALNTPKDHIGTRN PAAAYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLMSPFQSGS SYPYDVPDYA
p367	CoVAX_ORF1ab	see Table S4	MGFYAYLRKHFSMMILSDDAVVCFNAAATLQGGPGTGKSHFAIGLALYYPSARIV YTACSHAAVDALCEKAAATVNALPETTADIVVFEISMATNYDLSVVNARLRAKH VYVIGDPAQLPAPRTLLTKGTLEPEAAAFQTVKPGNFNKFDFYFAVSKGFFKEGSSV ELKHFFFAQDGNAAISDYDYRYNLPMTCDIAAARPLNRNYVFTGYRVTKNSKVQ IGEYTFEKAQAQSKMSDVKCTSVVLLSVLQQLAAAVIVNNLDSAGFPFNKGWKA RLYYDSMSYEDQDAALFAYTKRNVITITQMNLYAISAKNRARTVAGVSICTM TNRQFHQKLLSIAATRGATVIGTSKFGGWAAALYYQNNVFMSEAKCWETEDL TKGPHEFCSQHTMAAAAGIVGVLTLDNQDLNGNWDYDFGDFIAAALKLFAAETLKA TEEAARKLEKMAADQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDNDA AAYLPYPDPRIAGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHAAARFYRLANE CAQVLESEMVMCGGSLYVKPGGTSSGDATTAYANSVFNIAAACVLCNSQTSRLCGA CIRRPFLCCKCCYDHVISTSHKLVSVPYVCNAPGCDVTDVTQLYLGGMSYCYAA ADDRCILHCANFNVLSTVFPPTSFGLVVRKIFVDGVFPFVSTGYHFRELGVVAAAP HLMGWDPYKCDRAMPNMLRIMASLVLARKHAAAYNSTFFSTFKCYGVSATKLND LCFSNVYAAALSTDILKNQCVNFNGLTGTGVLTPSSAAAIKWPPWYIWLGFIAGLI AIVMVTIMLCCMTGSGSYPDVDPDYA
p415	CoVAX_ORF1ab_norep	see Table S4	MGFYAYLRKHFSMMILSDDAVVCFNAAATLQGGPGTGKSHFAIGLALYYPSARIV YTACSHAAVDALCEKAAATVNALPETTADIVVFEISMATNYDLSVVNARLRAKH VYVIGDPAQLPAPRTLLTKGTLEPEAAAFQTVKPGNFNKFDFYFAVSKGFFKEGSSV ELKHFFFAQDGNAAISDYDYRYNLPMTCDIAAARPLNRNYVFTGYRVTKNSKVQ IGEYTFEKAQAQSKMSDVKCTSVVLLSVLQQLAAAVIVNNLDSAGFPFNKGWKA RLYYDSMSYEDQDAALFAYTKRNVITITQMNLYAISAKNRARTVAGVSICTM TNRQFHQKLLSIAATRGATVIGTSKFGGWAAALYYQNNVFMSEAKCWETEDL TKGPHEFCSQHTMAAAAGIVGVLTLDNQDLNGNWDYDFGDFIAAALKLFAAETLKA TEEAARKLEKMAADQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDNDA AAYLPYPDPRIAGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHAAARFYRLANE CAQVLESEMVMCGGSLYVKPGGTSSGDATTAYANSVFNIAAACVLCNSQTSRLCGA CIRRPFLCCKCCYDHVISTSHKLVSVPYVCNAPGCDVTDVTQLYLGGMSYCYAA ADDRCILHCANFNVLSTVFPPTSFGLVVRKIFVDGVFPFVSTGYHFRELGVVAAAP HLMGWDPYKCDRAMPNMLRIMASLVLARKHAAAYNSTFFSTFKCYGVSATKLND LCFSNVYAAALSTDILKNQCVNFNGLTGTGVLTPSSAAAIKWPPWYIWLGFIAGLI AIVMVTIMLCCMTGSGSYPDVDPDYA
p391	spike_FL2_HA	spike SARS-CoV-2 'Wuhan-Hu-1' (YP_009724390.1)	MFVFLVLLPLVSSQCVNLTRTQLPPAYTNSFTRGVVYPDKVFRSSVLHSTQDLFLPF FSNVTFWFAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIRGWIFGTTLDSTK QSLIVNNATNVVIVKCEFCQFCNDPFLGVYHKNKNSWMESEFRVYSSANNCTFEY VSQPFLLMDLEGKQGNFKNREFVFNIDGYFKIYSKHTPINLVRDLQPGFSALEPLV DLPIGINITRFQTLALHRSYLTGPDSSSGWTAGAAAYVGYLQPRFTLLKYNENGTI TDAVDALDPLSETKTLKSFTVEKGIQTSNFRVQPTSEIVRFNPITNLCPGFEVFN ATRFASVYAWNRRKISNCVADYSVLYNSASFSTFKCYGVSPTKLNLCFTNVYADSF VIRGDEVRIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVGNNYLYRLF RKSNNLKPFRDISTEIQAGSTPCNGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVL SFELLHAPATVCGPKKSTNLVKNKCVNFNGLTGTGVLTESNKKFLPFQFGRDIA DTTDAVRDPQTLEILDITPCSFSGSVITPGTNTSNQVAVLYQDVNCTEVPVAIHAD QLTPTWRVYSTGSNVFQTRAGCLIGAHEVNNSYECDIPIGAGICASYQTQNTNSPRR ARSVASQSIAYTMSLGAENSVAYSNNIAIPTNFTISVTTEILPVSMTKTSVDCTMYI

			CGDSTECNLLQYGSFCTQLNRALTGIAVEQDKNTQEVFAQVKQIYKTPPIKDFGG FNFSQILPDPSKPSKRSFIEDLLFNKVTADAGFIKQYGDCLGDIARDLCAQKFNGL TVLPPLLTDEMIQYTSALLAGTITSGWTFGAGAAALQIPFAMQMAYRFNGIGVGTQ NVLYENQKLIANQFNSAIGKIQDSLSTASALGKLQDVVNQNAQALNTLVKQLSSN FGAISSVLNDILSRDLKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRASANLAATK MSECVLGQSKRVDFCGKGYHLSFPPQSAPHGVVFLHVTYVPAQEKNTTAPAICH DGKAHFPREGVFVSNNGTHWFTVQRNFYEPQIITDNTFVSGNCDVVIGIVNNTVY DPLQPELDSFKEELDKYFKNHTSPDVLGDISGINASVVNIQKEIDRLNEVAKNLNES LIDLQELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCCLKGCCSCGSC CKFDEDDSEPVLGKVLHYTSGSGYPYDVPDYA
p393	sspike-noF	spike SARS-CoV-2 'Wuhan', optimised: (prefusion-stabilised (S2P), removed transmembrane domain and furin cleavage sites, added trimerisation signal and universal helper antigens)	MFVFLVLLPLVSSQCVNLTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPF FSNVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIRGWIFGTTLDSTK QSLIVNNTATNVVIKVFCEQFCNDPFLGVYHKNKNSWMESEFRVYSSANNCTFEY VSQPFLMDLEGKQGNFKNLREFVFKNIDGYFKIYKHTPIINLVRDLPGGSALEPLV DLPIGINITRFQTLALHRSYLTGPDSSSGWTAGAAAYVGYLQPRFTLLKYNENGTI TDAVDCALDPLSETKCTLSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFN ATRFASVYAWNRKRISNCVADYSVLNSASFSTFKCYGSPTKLNLDLCTNNVYADSF VIRGDEVQRQIAPGQTGKIADYNKLPDDFTGCVIAWNSNNLDSKVGGNNYLYRLF RKSNNLKPFFERDISTEIYQAGSTPCNGVEGFNCFPLQSYGFQPTNGVGYQPYRVVVL SFELLHAPATVCGPKKSTNLVKNKCVNFNGLTGTGVLTESNKKFLPFQGFGRDIA DTTDAVRDPQTLEILDITPCSFGGVSVITPGTNTSNQVAVLYQDVNCTEVPAIHAD QLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSEYCDIPIGAGICASYQTQNTSPSS ARSVASQSIAYTMSLGAENSVAYSNNIAIPTNFTISVTTEILPVSMTKTSVDCTMYI CGDSTECNLLQYGSFCTQLNRALTGIAVEQDKNTQEVFAQVKQIYKTPPIKDFGG FNFSQILPDPSKPSKRSFIEDLLFNKVTADAGFIKQYGDCLGDIARDLCAQKFNGL TVLPPLLTDEMIQYTSALLAGTITSGWTFGAGAAALQIPFAMQMAYRFNGIGVGTQ NVLYENQKLIANQFNSAIGKIQDSLSTASALGKLQDVVNQNAQALNTLVKQLSSN FGAISSVLNDILSRDLKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRASANLAATK MSECVLGQSKRVDFCGKGYHLSFPPQSAPHGVVFLHVTYVPAQEKNTTAPAICH DGKAHFPREGVFVSNNGTHWFTVQRNFYEPQIITDNTFVSGNCDVVIGIVNNTVY DPLQPELDSFKEELDKYFKNHTSPDVLGDISGINASVVNIQKEIDRLNEVAKNLNES LIDLQELGKYEQYIKWPGGGTGGGNGTGRMKQIEDKIEILSKIYNITNEIARIKKLIG NRTGGGSGFNFTVSFWLRVPKVSASHLEGP GAKFVAAWTLKAAAGPGPGY PYDVPDYA
p422	sspike-noF-noHELP	spike SARS-CoV-2 'Wuhan-Hu-1', optimised: (prefusion-stabilised (S2P), removed transmembrane domain and furin cleavage sites, added trimerisation signal)	MFVFLVLLPLVSSQCVNLTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPF FSNVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIRGWIFGTTLDSTK QSLIVNNTATNVVIKVFCEQFCNDPFLGVYHKNKNSWMESEFRVYSSANNCTFEY VSQPFLMDLEGKQGNFKNLREFVFKNIDGYFKIYKHTPIINLVRDLPGGSALEPLV DLPIGINITRFQTLALHRSYLTGPDSSSGWTAGAAAYVGYLQPRFTLLKYNENGTI TDAVDCALDPLSETKCTLSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFN ATRFASVYAWNRKRISNCVADYSVLNSASFSTFKCYGSPTKLNLDLCTNNVYADSF VIRGDEVQRQIAPGQTGKIADYNKLPDDFTGCVIAWNSNNLDSKVGGNNYLYRLF RKSNNLKPFFERDISTEIYQAGSTPCNGVEGFNCFPLQSYGFQPTNGVGYQPYRVVVL SFELLHAPATVCGPKKSTNLVKNKCVNFNGLTGTGVLTESNKKFLPFQGFGRDIA DTTDAVRDPQTLEILDITPCSFGGVSVITPGTNTSNQVAVLYQDVNCTEVPAIHAD QLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSEYCDIPIGAGICASYQTQNTSPSS ARSVASQSIAYTMSLGAENSVAYSNNIAIPTNFTISVTTEILPVSMTKTSVDCTMYI CGDSTECNLLQYGSFCTQLNRALTGIAVEQDKNTQEVFAQVKQIYKTPPIKDFGG FNFSQILPDPSKPSKRSFIEDLLFNKVTADAGFIKQYGDCLGDIARDLCAQKFNGL TVLPPLLTDEMIQYTSALLAGTITSGWTFGAGAAALQIPFAMQMAYRFNGIGVGTQ NVLYENQKLIANQFNSAIGKIQDSLSTASALGKLQDVVNQNAQALNTLVKQLSSN FGAISSVLNDILSRDLKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRASANLAATK MSECVLGQSKRVDFCGKGYHLSFPPQSAPHGVVFLHVTYVPAQEKNTTAPAICH DGKAHFPREGVFVSNNGTHWFTVQRNFYEPQIITDNTFVSGNCDVVIGIVNNTVY DPLQPELDSFKEELDKYFKNHTSPDVLGDISGINASVVNIQKEIDRLNEVAKNLNES LIDLQELGKYEQYIKWPGGGTGGGNGTGRMKQIEDKIEILSKIYNITNEIARIKKLIG NRTGGGYPYDVPDYA
p489	Omicron-HA_p310bb	spike SARS-CoV-2 B.1.1.529 'Omicron' (UFO69279.1)	MFVFLVLLPLVSSQCVNLTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPF FSNVTWFHVISGTNGTKRFDNPVLPFNDGVYFASIEKSNIRGWIFGTTLDSTKQSL IVNNTATNVVIKVFCEQFCNDPFLDHKNKNSWMESEFRVYSSANNCTFEYVSQPFL MDLEGKQGNFKNLREFVFKNIDGYFKIYKHTPIIVREPEDLPQGSALEPLVDLP NITRFQTLALHRSYLTGPDSSSGWTAGAAAYVGYLQPRFTLLKYNENGITDAVD CALDPLSETKCTLSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFAS VYAWNRKRISNCVADYSVLNLAFFFTFKCYGSPTKLNLDLCTNNVYADSFVIRGDE VRQIAPGQTGNIADYNKLPDDFTGCVIAWNSNNLDSKVSGNNYLYRLFRKSNNL KPFERDISTEIYQAGNKPCNGVAGFNCYPLRSYSFRPTYGVGHQPYRVVVLFSFELLH APATVCGPKKSTNLVKNKCVNFNGLKGTGVLTESNKKFLPFQGFGRDIADTTDA VRDPQTLEILDITPCSFGGVSVITPGTNTSNQVAVLYQGVNCTEVPAIHADQLTPT WRVYSTGSNVFQTRAGCLIGAEVNNSEYCDIPIGAGICASYQTQTKSHRRARSVA SQSIAYTMSLGAENSVAYSNNIAIPTNFTISVTTEILPVSMTKTSVDCTMYICGDST ECSNLLQYGSFCTQLKRALTGIAVEQDKNTQEVFAQVKQIYKTPPIKYFGGFNFSGQI

			LPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDCLGDIAARDLICAQKFKGLTVLPPL LTDEMIAQYTSALLAGTITSGWTFGAGAAALQIPFAMQMAYRFNGIGVTQNVLYEN QKLIANQFNSAIGKIQDLSSTASALGKLQDVVNHNAAQALNTLVKQLSSKFGAISSV LNDIFSRDKVEAEVQIDRLITGRLQSLQTYVTQQIRAAEIRASANLAATKMSECVL GQSKRVDFCGKGYHLMSPQSAHPGVVFLHVTYVPAQEKNFHTTAPAICHGDKAHF PREGVFSVNGTHWVFTQRNFYEPQIITDNTFVSGNCDVVGIVNNTVYDPLQPEL DSFKEELDKYFKNHTSPDVLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDLQEL GKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCCLKGCCSCGSCCKFDED DSEPVLLKGKLVHTGSGSYPYDVPDYA
p492	Sars1-HA_p310bb	spike SARS-CoV WH20 (AAX16192.1)	MFIFLLFLTSGSDLDRCCTTFDDVQAPNYTQHTSSMRGVVYYPDEIFRSDTLTYLTD LFLPFYSNVTGFHTINHTFDNPVIFKDIYFAATEKSNVVRGVVFGSTMNNKSQS VIIINNSTNVVIRACNFELCDNPFPAVSKPMGTQTHMIFDNAFNCTFEYISDAFSLD VSEKSGNFKHLREFVFNKNDGFLYVYKGYQPIDVVRDLPSGFNTLKPFIKPLGINIT NFRAILTAFSPAQDWTGTSAAAYFVGYLKPTTFMLKYDENGITDAVDCSQNPALAE LKCSVKSFEIDKGIYQTSNFRVPSGDVVRFPNITNLCPFGEVFNATKFPSVYAWER KKISNCVADYSVLYNSTFFSTFKCYGVSATKLNLDLCSNVYADSFVVKGGDDVRQIAP GQTGVIADYNYKLPDDFMGCVLAWNTRNIDATSTGNYNKYRYLRHGKLRPFERD ISNVFSPDGGKCTPPALNCYWPLNDYGFYTTTGIGYQPYRVVVSFELLNAPATVC GPKLSTDLIKNQCVNFNFGTLTGTVLTPSSKRFQPFQFGRDVSDFDTSVRDPKT SEILDISPCSFSGGVSVITPGTNASSEVAVLYQDVNCTDVSTAIHADQLTPAWRIYSTG NNVFQTQAGCLIGAEHVDTSYECDIPIGAGICASYHTVSLRSTSQKSIVAYTMSLGA DSSIAYSNNTIAIPTNFSISITTEVMPVSMAKTSVDCNMYICGDESTECANLLLQYGSF CTQLNRLSGIAAEQDRNTRVFAQVKQMYKTPTLKYFGGFNFSQLPDPKPTKR SFIEDLLFNKVTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLTDDMIAA YTAALVSGTATAGWTFGAGAAALQIPFAMQMAYRFNGIGVTQNVLYENQKQIAN QFNKAISQIQESLTTTSTALGKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILS RLDKVEAEVQIDRLITGRLQSLQTYVTQQIRAAEIRASANLAATKMSECVLQGSKR VDFCGKGYHLMSPQAAPHGVVFLHVTYVPSQERNFTTAPAICHEGKAYFPREGV FVFNGTSWFITQRNFFSPQIITDNTFVSGNCDVVGIIINNTVYDPLQPELDSFKEEL DKYFKNHTSPDVLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDLQELGKYEQYI KWPWYVWLGFIAGLMAIVMVTILLCCMTSCCCLKGACSCGSCCKFDEDDSEPVLL KGVKLHYTGSGSYPYDVPDYA

Supplemental Figure 1. M clustal alignment. Clustal O (version 1.2.4) multiple sequence alignment using the sarbecoviruses listed in Supplemental Table 2. The Wuhan-Hu-1 (NC_045512.2) sequence is indicated in bold, and selected antigens (Supplemental Table 3) are boxed and shaded.

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GQ153542.1  ----MADSNGTITVEELKKLLEQWNLVIGFLFTWICLLQFAYANRRNRFlyIIKLIFLW 55
MN996529.1  ----MADSNGTITVEELKKLLEQWNLVIGFLFTWICLLQFAYANRRNRFlyIIKLIFLW 55
MT093571.1  ----MADSNGTITVEELKKLLEQWNLVIGFLFTWICLLQFAYANRRNRFlyIIKLIFLW 55
MN988713.1  ----MADSNGTITVEELKKLLEQWNLVIGFLFTWICLLQFAYANRRNRFlyIIKLIFLW 55
MT072688.1  ----MADSNGTITVEELKKLLEQWNLVIGFLFTWICLLQFAYANRRNRFlyIIKLIFLW 55
MN994467.1  ----MADSNGTITVEELKKLLEQWNLVIGFLFTWICLLQFAYANRRNRFlyIIKLIFLW 55
NC_045512.2  ----MADSNGTITVEELKKLLEQWNLVIGFLFTWICLLQFAYANRRNRFlyIIKLIFLW 55
MN996532.2  ----MADNGTITVEELKKLLEQWNLVIGFLFTWICLLQFAYANRRNRFlyIIKLIFLW 54
MG772933.1  ----MSGDNGTITVEELKKLLEQWNLVIGFLFTWICLLQFAYANRRNRFlyIIKLIFLW 55
MG772934.1  ----MSGDNGTITVEELKKLLEQWNLVIGFLFTWICLLQFAYANRRNRFlyIIKLIFLW 55
MW532698.1  ----MSANNGTITVEELKKLLEQWNLVIGFLFTWICLLQFAYANRRNRFlyIIKLIFLW 55
MT040336.1  ----MSADNGTITVEELKKLLEQWNLVIGFLFTWICLLQFAYANRRNRFlyIIKLIFLW 55
MT040335.1  ----MSADNGTITVEELKKLLEQWNLVIGFLFTWICLLQFAYANRRNRFlyIIKLIFLW 55
MT040334.1  ----MSADNGTITVEELKKLLEQWNLVIGFLFTWICLLQFAYANRRNRFlyIIKLIFLW 55
MT040333.1  ----MSADNGTITVEELKKLLEQWNLVIGFLFTWICLLQFAYANRRNRFlyIIKLIFLW 55
NC_014470.1  MTNSSASPTETITVEELKHLLEQWNLVIGFLFAWILLQFAYSNNRRNRFlyIIKLIFLW 60
KP886809.1  ----MADYGTITVEELKQLEQWNLIGFLFLPWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
KF569996.1  ----MAENGTSVEELKRLLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
KY417147.1  ----MAENGTSVEELKRLLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
KY417142.1  ----MAENGTSVEELKRLLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
KC881006.1  ----MAENGTSVEELKRLLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
KF367457.1  ----MAENGTSVEELKRLLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
KY417144.1  ----MAENGTSVEELKRLLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
KC881005.1  ----MAENGTSVEELKRLLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
KY417152.1  ----MAENGTSVEELKRLLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
KT444582.1  ----MAENGTSVEELKRLLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
KY417151.1  ----MAENGTSVEELKRLLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
KY417143.1  ----MAENGTSVEELKRLLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
FJ588686.1  ----MAENGTSVEELKRLLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
DQ022305  ----MADNGTITVEELKQLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
KY417146.1  ----MADNGTITVEELKQLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
KY417148.1  ----MADNGTITVEELKQLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
AY572038.1  ----MADNSTITVEELKQLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
AY572034.1  ----MADNSTITVEELKQLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
AP006560.1  ----MADNGTITVEELKQLEQWNLVIGFLCLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
AP006557.1  ----MADNGTITVEELKQLEQWNLVIGFLCLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
AY485277.1  ----MADNGTITVEELKQLEQWNLVIGFLCLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
AY278488.2  ----MADNGTITVEELKQLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
KY417145.1  ----MADNGTITVEELKQLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54
AY274119  ----MADNGTITVEELKQLEQWNLVIGFLFLAWIMLLQFAYSNNRRNRFlyIIKLIFLW 54

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CoVAX_MNS#1

GQ153542.1	LLWPVTLACFVLAAYRINW	ITGGIAIAMACLVGLMWLSYFI	ASFRLFARTRSMWSFNPE	115
MN996529.1	LLWPVTLACFVLAAYRINW	ITGGIAIAMACLVGLMWLSYFI	ASFRLFARTRSMWSFNPE	115
MT093571.1	LLWPVTLACFVLAAYRINW	ITGGIAIAMACLVGLMWLSYFI	ASFRLFARTRSMWSFNPE	115
MN988713.1	LLWPVTLACFVLAAYRINW	ITGGIAIAMACLVGLMWLSYFI	ASFRLFARTRSMWSFNPE	115
MT072688.1	LLWPVTLACFVLAAYRINW	ITGGIAIAMACLVGLMWLSYFI	ASFRLFARTRSMWSFNPE	115
MN994467.1	LLWPVTLACFVLAAYRINW	ITGGIAIAMACLVGLMWLSYFI	ASFRLFARTRSMWSFNPE	115
NC_045512.2	LLWPVTLACFVLAAYRINW	ITGGIAIAMACLVGLMWLSYFI	ASFRLFARTRSMWSFNPE	115
MN996532.2	LLWPVTLACFVLAAYRINW	ITGGIAIAMACLVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
MG772933.1	LLWPVTLACFVLAAYRINW	ITGGIAIAMACLVGLMWLSYFI	ASFRLFARTRSMWSFNPE	115
MG772934.1	LLWPVTLACFVLAAYRINW	ITGGIAIAMACLVGLMWLSYFI	ASFRLFARTRSMWSFNPE	115
MW532698.1	LLWPVTLACFVLAAYRINW	ITGGIAIAMTCLVGLMWLSYFI	ASFRLFARTRSMWSFNPE	115
MT040336.1	LLWPVTLACFVLAAYRINW	ITGGIAIAMACLVGLMWLSYFI	ASFRLFARTRSMWSFNPE	115
MT040335.1	LLWPVTLACFVLAAYRINW	ITGGIAIAMACLVGLMWLSYFI	ASFRLFARTRSMWSFNPE	115
MT040334.1	LLWPVTLACFVLAAYRINW	ITGGIAIAMACLVGLMWLSYFI	ASFRLFARTRSMWSFNPE	115
MT040333.1	LLWPVTLACFVLAAYRINW	ITGGIAIAMACLVGLMWLSYFI	ASFRLFARTRSMWSFNPE	115
NC_014470.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	120
KP886809.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
KF569996.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
KY417147.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
KY417142.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
KC881006.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
KF367457.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
KY417144.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
KC881005.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
KY417152.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
KT444582.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
KY417151.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
KY417143.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
FJ588686.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
DQ022305	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
KY417146.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
KY417148.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
AY572038.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
AY572034.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
AP006560.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
AP006557.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
AY485277.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
AY278488.2	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
KY417145.1	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114
AY274119	LLWPVTLACFVLAAYRINW	VTGGIAIAMACIVGLMWLSYFI	ASFRLFARTRSMWSFNPE	114

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CoVAX_MNS#1

CoVAX_MNS#6

GQ153542.1	TNILLNVPLHGTILTRPLLESELVIGAVILRGHLRIAGHHLGRCDIKDLPKEITVATSRT	175
MN996529.1	TNILLNVPLHGTILTRPLLESELVIGAVILRGHLRIAGHHLGRCDIKDLPKEITVATSRT	175
MT093571.1	TNILLNVPLHGTILTRPLLESELVIGAVILRGHLRIAGHHLGRCDIKDLPKEITVATSRT	175
MN988713.1	TNILLNVPLHGTILTRPLLESELVIGAVILRGHLRIAGHHLGRCDIKDLPKEITVATSRT	175
MT072688.1	TNILLNVPLHGTILTRPLLESELVIGAVILRGHLRIAGHHLGRCDIKDLPKEITVATSRT	175
MN994467.1	TNILLNVPLHGTILTRPLLESELVIGAVILRGHLRIAGHHLGRCDIKDLPKEITVATSRT	175
NC_045512.2	TNILLNVPLHGTILTRPLLESELVIGAVILRGHLRIAGHHLGRCDIKDLPKEITVATSRT	175
MN996532.2	TNILLNVPLHGTILTRPLLESELVIGAVILRGHLRIAGHHLGRCDIKDLPKEITVATSRT	174
MG772933.1	TNILLNVPLHGTILTRPLLESELVIGAVILRGHLRIAGHHLGRCDIKDLPKEITVATSRT	175
MG772934.1	TNILLNVPLHGTILTRPLLESELVIGAVILRGHLRIAGHHLGRCDIKDLPKEITVATSRT	175
MW532698.1	TNILLNVPLHGTILTRPLLESELVIGAVILRGHLRIAGHHLGRCDIKDLPKEITVATSRT	175
MT040336.1	TNILLNVPLHGTILTRPLLESELVIGAVILRGHLRIAGHHLGRCDIKDLPKEITVATSRT	175
MT040335.1	TNILLNVPLHGTILTRPLLESELVIGAVILRGHLRIAGHHLGRCDIKDLPKEITVATSRT	175
MT040334.1	TNILLNVPLHGTILTRPLLESELVIGAVILRGHLRIAGHHLGRCDIKDLPKEITVATSRT	175
MT040333.1	TNILLNVPLHGTILTRPLLESELVIGAVILRGHLRIAGHHLGRCDIKDLPKEITVATSRT	175
NC_014470.1	TNILLNVPLRGTILTRPLLESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	180
KP886809.1	TNILLNVPLRGTILTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
KF569996.1	TNILLNVPLRGTILTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
KY417147.1	TNILLNVPLRGTIVTRPLLESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
KY417142.1	TNILLNVPLRGTIVTRPLLESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
KC881006.1	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
KF367457.1	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
KY417144.1	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
KC881005.1	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
KY417152.1	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
KT444582.1	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
KY417151.1	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
KY417143.1	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
FJ588686.1	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
DQ022305	TNILLNVPLRGTILTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
KY417146.1	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
KY417148.1	TNILLNVPLRGTIVTRPLLESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
AY572038.1	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
AY572034.1	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
AP006560.1	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
AP006557.1	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
AY485277.1	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
AY278488.2	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
KY417145.1	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
AY274119	TNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDIKDLPKEITVATSRT	174
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CoVAX_MNS#6

CoVAX_MNS#9

GQ153542.1	LSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSSSSDNIALLVQ	222
MN996529.1	LSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSSSSDNIALLVQ	222
MT093571.1	LSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSSSSDNIALLVQ	222
MN988713.1	LSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSSSSDNIALLVQ	222
MT072688.1	LSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSSSSDNIALLVQ	222
MN994467.1	LSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSSSSDNIALLVQ	222
NC_045512.2	LSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSSSSDNIALLVQ	222
MN996532.2	LSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSSSSDNIALLVQ	221
MG772933.1	LSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSSSSDNIALLVQ	222
MG772934.1	LSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSSSSDNIALLVQ	222
MW532698.1	LSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSNSSDNIALLVQ	222
MT040336.1	LSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSNSSDNIALLVQ	222
MT040335.1	LSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSNSSDNIALLVQ	222
MT040334.1	LSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSNSSDNIALLVQ	222
MT040333.1	LSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSNSSDNIALLVQ	222
NC_014470.1	LSYYKLGASQRVASDSGFAVYHRYRIGNYKLNTDHIGSDDNIALLVQ	227
KP886809.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
KF569996.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHSGSNDNIALLVQ	221
KY417147.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
KY417142.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
KC881006.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
KF367457.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
KY417144.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
KC881005.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
KY417152.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
KT444582.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
KY417151.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
KY417143.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
FJ588686.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
DQ022305	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHSGSNDNIALLVQ	221
KY417146.1	LSYYKLGASQRVGIDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
KY417148.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
AY572038.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
AY572034.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
AP006560.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
AP006557.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
AY485277.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
AY278488.2	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
KY417145.1	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
AY274119	LSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIALLVQ	221
	****.*****. *****. * *****.*****. *.*****	

CoVAX_MNS#9

Supplemental Figure 2. N clustal alignment. Clustal O (version 1.2.4) multiple sequence alignment using the sarbecoviruses listed in Supplemental Table 2. The Wuhan-Hu-1 (NC_045512.2) sequence is indicated in bold, and selected antigens (Supplemental Table 3) are boxed and shaded.

NC_014470.1	MTDNGQ-SNSRNAPRITFGV-SDTSDNNQNAERAGARE	KQRRPQGLPNNTASWFTALTQH	58
KP886809.1	MSDNGPH-NQRSASRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	59
DQ022305	MSDNGPQ-SQRSAPRITFGGPDSDNNQDGGRSARE	KQRRPQGLPNNTASWFTALTQH	59
KF569996.1	MSDNGPQ-NQRSAPRITFGGPTDSADNNQNGERSARE	KQRRPQGLPNNTASWFTALTQH	60
GQ153542.1	MSDNGPQ-DQRSAPRITFGGPTDSTDNNQDGGRSARE	KQRRPQGLPNNTASWFTALTQH	59
FJ588686.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQDGGRSARE	KQRRPQGLPNNTASWFTALTQH	60
KY417151.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
KY417145.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
AY572038.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
KT444582.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
KY417143.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
KY417152.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
KC881005.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
KY417146.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
KY417148.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
KY417142.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
KY417144.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
AY572034.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
KY417147.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
AP006560.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
AP006557.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
AY485277.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
AY278488.2	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
KC881006.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
AY274119	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
KF367457.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	60
MT040336.1	MSDNGPQ-N--RAPRITFGGPTDSTDNNQNGDRSGARE	KQRRPQGLPNNTASWFTALTQH	57
MT040333.1	MSDNGPQ-N--RAPRITFGGPTDSTDNNQNGDRSGARE	KQRRPQGLPNNTASWFTALTQH	57
MT040335.1	MSDNGPQ-N--RAPRITFGGPTDSTDNNQNGDRSGARE	KQRRPQGLPNNTASWFTALTQH	57
MW532698.1	MSDNGPQ-N--RAPRITFGGPTDSTDNNQNGDRSGARE	KQRRPQGLPNNTASWFTALTQH	57
MT040334.1	MSDNGPQ-N--RAPRITFGGPTDSTDNNQNGDRSGARE	KQRRPQGLPNNTASWFTALTQH	57
MG772933.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	59
MG772934.1	MSDNGPQ-NQRSAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	59
MN996532.2	MSDNGPQ-NQRNAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	59
MN996529.1	MSDNGPQ-NQRNAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	59
MT093571.1	MSDNGPQ-NQRNAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	59
MT072688.1	MSDNGPQ-NQRNAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	59
MN994467.1	MSDNGPQ-NQRNAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	59
NC_045512.2	MSDNGPQ-NQRNAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	59
MN988713.1	MSDNGPQ-NQRNAPRITFGGPTDSTDNNQNGGRNGARE	KQRRPQGLPNNTASWFTALTQH	59

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CoVAX_MNS#14

NC_014470.1	GKEGLSFPRGQGVVNTNSTRDDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	118
KP886809.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	119
DQ022305	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	119
KF569996.1	GKEELRFPRGQGVPIINTNSGTDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
GQ153542.1	GKEELRFPRGQGVPIINTNSGKDDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	119
FJ588686.1	GKEELRFPRGQGVPIINTNSGKDDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
KY417151.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
KY417145.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
AY572038.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
KT444582.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
KY417143.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
KY417152.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
KC881005.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
KY417146.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
KY417148.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
KY417142.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
KY417144.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
AY572034.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
AP006560.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
AP006557.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
AY485277.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
AY278488.2	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
KC881006.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
AY274119	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
KF367457.1	GKEELRFPRGQGVPIINTNSGPDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEA	120
MT040336.1	GKEDLRFPRGQGVPIINTNSTKDDQIGYYRRATRRVRGGDGKMKDLSPRWYFYYLGTGPEA	117
MT040333.1	GKEDLRFPRGQGVPIINTNSTKDDQIGYYRRATRRVRGGDGKMKDLSPRWYFYYLGTGPEA	117
MT040335.1	GKEDLRFPRGQGVPIINTNSTKDDQIGYYRRATRRVRGGDGKMKDLSPRWYFYYLGTGPEA	117
MW532698.1	GKEDLRFPRGQGVPIINTNSTKDDQIGYYRRATRRVRGGDGKMKDLSPRWYFYYLGTGPEA	117
MT040334.1	GKEDLRFPRGQGVPIINTNSTKDDQIGYYRRATRRVRGGDGKMKDLSPRWYFYYLGTGPEA	117
MG772933.1	GKENLTFPRGQGVPIINTNSSKDDQIGYYRRATRRIRGGDGKMKELSPRWYFYYLGTGPEA	119
MG772934.1	GKENLTFPRGQGVPIINTNSSKDDQIGYYRRATRRIRGGDGKMKELSPRWYFYYLGTGPEA	119
MN996532.2	GKEDLKFRGQGVPIINTNSSPDQIGYYRRATRRIRGGDGKMKDLSPRWYFYYLGTGPEA	119
MN996529.1	GKEDLKFRGQGVPIINTNSSPDQIGYYRRATRRIRGGDGKMKDLSPRWYFYYLGTGPEA	119
MT093571.1	GKEDLKFRGQGVPIINTNSSPDQIGYYRRATRRIRGGDGKMKDLSPRWYFYYLGTGPEA	119
MT072688.1	GKEDLKFRGQGVPIINTNSSPDQIGYYRRATRRIRGGDGKMKDLSPRWYFYYLGTGPEA	119
MN994467.1	GKEDLKFRGQGVPIINTNSSPDQIGYYRRATRRIRGGDGKMKDLSPRWYFYYLGTGPEA	119
NC_045512.2	GKEDLKFRGQGVPIINTNSSPDQIGYYRRATRRIRGGDGKMKDLSPRWYFYYLGTGPEA	119
MN988713.1	GKEDLKFRGQGVPIINTNSSPDQIGYYRRATRRIRGGDGKMKDLSPRWYFYYLGTGPEA	119

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CoVAX_MNS#14

NC_014470.1	ALPYGANKDGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	178
KP886809.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	179
DQ022305	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	179
KF569996.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
GQ153542.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	179
FJ588686.1	SLPYGANKQGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
KY417151.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
KY417145.1	SLLYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
AY572038.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
KT444582.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
KY417143.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
KY417152.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
KC881005.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
KY417146.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
KY417148.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
KY417142.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
KY417144.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
AY572034.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
AP06560.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
AP006557.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
AY485277.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
AY278488.2	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
KC881006.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
AY274119	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
KF367457.1	SLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	180
MT040336.1	GLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGT	ALPKGFYAEGSRGG	177
MT040333.1	GLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGT	ALPKGFYAEGSRGG	177
MT040335.1	GLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGT	ALPKGFYAEGSRGG	177
MW532698.1	GLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGT	ALPKGFYAEGSRGG	177
MT040334.1	GLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGT	ALPKGFYAEGSRGG	177
MG772933.1	GLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	179
MG772934.1	GLPYGANKEGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	179
MN996532.2	GLPYGANKDGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	179
MN996529.1	GLPYGANKDGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	179
MT093571.1	GLPYGANKDGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	179
MT072688.1	GLPYGANKDGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	179
MN994467.1	GLPYGANKDGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	179
NC_045512.2	GLPYGANKDGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	179
MN988713.1	GLPYGANKDGI	WVATEGALNTPKDHIGTRN	NNNAAT	VLQLPQGTTL	PKGFYAEGSRGG	179
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CoVAX_MNS#16

CoVAX_MNS#13

NC_014470.1	SQASSRSSRSRGNSRNSTPGSSRGSSPARMAAG-GDTALALLLDRLNQLESKVS	237
KP886809.1	SQASSRSSRSRGNSRNSTPGSSRGTSFARIASGGGETALALLLDRLNQLESKVS	239
DQ022305	SQSSSRSSRSRGNSRNSTPGSSRGSSPARLASGGGETALALLLDRLNQLESKVS	239
KF569996.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
GQ153542.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARLASGGGETALALLLDRLNQLESKVS	239
FJ588686.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
KY417151.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
KY417145.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
AY572038.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
KT444582.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
KY417143.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
KY417152.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
KC881005.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
KY417146.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
KY417148.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
KY417142.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
KY417144.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
AY572034.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
AP006560.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
AP006557.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
AY485277.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
AY278488.2	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
KC881006.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
AY274119	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
KF367457.1	SQASSRSSRSRGNSRNSTPGSSRGNSPARMASGGGETALALLLDRLNQLESKVS	240
MT040336.1	SQASSRSSRSRPNSSRNSTPGSSRGTSFARIAGNGGDAALALLLDRLNALESKMS	237
MT040333.1	SQASSRSSRSRPNSSRNSTPGSSRGTSFARIAGNGGDAALALLLDRLNALESKMS	237
MT040335.1	SQASSRSSRSRPNSSRNSTPGSSRGTSFARIAGNGGDAALALLLDRLNALESKMS	237
MW532698.1	SQASSRSSRSRPNSSRNSTPGSSRGTSFARIAGNGGDAALALLLDRLNALESKMS	237
MT040334.1	SQASSRSSRSRPNSSRNSTPGSSRGTSFARIAGNGGDAALALLLDRLNALESKMS	237
MG772933.1	SQASSRSSRSRPNSSRNSTPGSSRGTSFARMAGNGGDTALALLLDRLNQLENKIS	239
MG772934.1	SQASSRSSRSRPNSSRNSTPGSSRGTSFARMAGNGGDTALALLLDRLNQLENKIS	239
MN996532.2	SQASSRSSRSRPNSSRNSTPGSSRGTSFARMAGNGGDAALALLLDRLNQLESKMS	239
MN996529.1	SQASSRSSRSRPNSSRNSTPGSSRGTSFARMAGNGGDAALALLLDRLNQLESKMS	239
MT093571.1	SQASSRSSRSRPNSSRNSTPGSSRGTSFARMAGNGGDAALALLLDRLNQLESKMS	239
MT072688.1	SQASSRSSRSRPNSSRNSTPGSSRGTSFARMAGNGGDAALALLLDRLNQLESKMS	239
MN994467.1	SQASSRSSRSRPNSSRNSTPGSSRGTSFARMAGNGGDAALALLLDRLNQLESKMS	239
NC_045512.2	SQASSRSSRSRPNSSRNSTPGSSRGTSFARMAGNGGDAALALLLDRLNQLESKMS	239
MN988713.1	SQASSRSSRSRPNSSRNSTPGSSRGTSFARMAGNGGDAALALLLDRLNQLESKMS	239
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CoVAX_MNS#13

CoVAX_MNS#12

NC_014470.1	NWPQIAQFAPSASAFFGMSRIGMEVTP	TGTWLTYN	GAIKLDDKDPNFKDQ	VILLNKHIDA	356
KP886809.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	359
DQ022305	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	359
KF569996.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
GQ153542.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	359
FJ588686.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
KY417151.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
KY417145.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
AY572038.1	QWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
KT444582.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
KY417143.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
KY417152.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDS	VILLNKHIDA	360
KC881005.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
KY417146.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
KY417148.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
KY417142.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
KY417144.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
AY572034.1	QWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
AP006560.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
AP006557.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
AY485277.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
AY278488.2	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
KC881006.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
AY274119	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
KF367457.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	360
MT040336.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYT	GAIKLDDKDP	SFKDNVILLNKHIDA	357
MT040333.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYT	GAIKLDDKDP	SFKDNVILLNKHIDA	357
MT040335.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYT	GAIKLDDKDP	SFKDNVILLNKHIDA	357
MW532698.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYT	GAIKLDDKDP	SFKDNVILLNKHIDA	357
MT040334.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYT	GAIKLDDKDP	SFKDNVILLNKHIDA	357
MG772933.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	359
MG772934.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYH	GAIKLDDKDPQFKDN	VILLNKHIDA	359
MN996532.2	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYT	GAIKLDDKDPNFKDQ	VILLNKHIDA	359
MN996529.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYT	GAIKLDDKDPNFKDQ	VILLNKHIDA	359
MT093571.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYT	GAIKLDDKDPNFKDQ	VILLNKHIDA	359
MT072688.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYT	GAIKLDDKDPNFKDQ	VILLNKHIDA	359
MN994467.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYT	GAIKLDDKDPNFKDQ	VILLNKHIDA	359
NC_045512.2	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYT	GAIKLDDKDPNFKDQ	VILLNKHIDA	359
MN988713.1	HWPQIAQFAPSASAFFGMSRIGMEVTP	SGTWLTYT	GAIKLDDKDPNFKDQ	VILLNKHIDA	359

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CoVAX_MNS#11

CoVAX_MNS#7

NC_014470.1	YKTFPPTEPKKDKKKK	ADEVQSLPQRQKKQATVTLLPAADLDDFSKQLQNSMNASPDST-	415
KP886809.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSEASADST	419
DQ022305	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQHSMSGASADST	419
KF569996.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
GQ153542.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQKSMGASADST	419
FJ588686.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
KY417151.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQSSMSGASADST	420
KY417145.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQSSMSGASADST	420
AY572038.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
KT444582.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
KY417143.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
KY417152.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
KC881005.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
KY417146.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
KY417148.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
KY417142.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPIVTLLPAADMDDFSRQLQNSMSGASADST	420
KY417144.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
AY572034.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
AP006560.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
AP006557.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
AY485277.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
AY278488.2	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
KC881006.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
AY274119	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
KF367457.1	YKTFPPTEPKKDKKKK	TDEAQLPQRQKKQPTVTLLPAADMDDFSRQLQNSMSGASADST	420
MT040336.1	YKTFPPTEPKKDKKKK	TDESQPLPQRQKKQPTVTLLPAADLDDFSKQLQSSMSADSTQA	417
MT040333.1	YKTFPPTEPKKDKKKK	TDESQPLPQRQKKQPTVTLLPAADLDDFSKQLQSSMSADSTQA	417
MT040335.1	YKTFPPTEPKKDKKKK	TDESQPLPQRQKKQPTVTLLPAADLDDFSKQLQSSMSADSTQA	417
MW532698.1	YKTFPPTEPKKDKKKK	TDESQPLPQRQKKQPTVTLLPAADLDDFSKQLQSSMSADSTQV	417
MT040334.1	YKTFPPTEPKKDKKKK	TDESQPLPQRQKKQPTVTLLPAADLDDFSKQLQSSMSADSTQA	417
MG772933.1	YKTFPPTEPKKDKKKK	ADELQALPQRQKKQPTVTLLPAADLDEFKQLQSSMSGTDSSTQA	419
MG772934.1	YKTFPPTEPKKDKKKK	ADELQALPQRQKKQPTVTLLPAADLDEFKQLQSSMSGTDSSTQA	419
MN996532.2	YKTFPPTEPKKDKKKK	ADETQALPQRQKKQPTVTLLPAADLDDFSKQLQSSMSADSTQA	419
MN996529.1	YKTFPPTEPKKDKKKK	ADETQALPQRQKKQPTVTLLPAADLDDFSKQLQSSMSADSTQA	419
MT093571.1	YKTFPPTEPKKDKKKK	ADETQALPQRQKKQPTVTLLPAADLDDFSKQLQSSMSADSTQA	419
MT072688.1	YKTFPPTEPKKDKKKK	ADETQALPQRQKKQPTVTLLPAADLDDFSKQLQSSMSADSTQA	419
MN994467.1	YKTFPPTEPKKDKKKK	ADETQALPQRQKKQPTVTLLPAADLDDFSKQLQSSMSADSTQA	419
NC_045512.2	YKTFPPTEPKKDKKKK	ADETQALPQRQKKQPTVTLLPAADLDDFSKQLQSSMSADSTQA	419
MN988713.1	YKTFPPTEPKKDKKKK	ADETQALPQRQKKQPTVTLLPAADLDDFSKQLQSSMSADSTQA	419

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CoVAX_MNS#7

NC_014470.1	QA	417
KP886809.1	QA	421
DQ022305	QA	421
KF569996.1	QA	422
GQ153542.1	QA	421
FJ588686.1	QA	422
KY417151.1	QA	422
KY417145.1	QA	422
AY572038.1	QA	422
KT444582.1	QA	422
KY417143.1	QA	422
KY417152.1	QA	422
KC881005.1	QA	422
KY417146.1	QA	422
KY417148.1	QA	422
KY417142.1	QA	422
KY417144.1	QA	422
AY572034.1	QA	422
KY417147.1	QA	422
AP006560.1	QA	422
AP006557.1	QA	422
AY485277.1	QA	422
AY278488.2	QA	422
KC881006.1	QA	422
AY274119	QA	422
KF367457.1	QA	422
MT040336.1	--	417
MT040333.1	--	417
MT040335.1	--	417
MW532698.1	--	417
MT040334.1	--	417
MG772933.1	--	419
MG772934.1	--	419
MN996532.2	--	419
MN996529.1	--	419
MT093571.1	--	419
MT072688.1	--	419
MN994467.1	--	419
NC_045512.2	--	419
MN988713.1	--	419

Supplemental Figure 3. S clustal alignment. Clustal O (version 1.2.4) multiple sequence alignment using the sarbecoviruses listed in Supplemental Table 2. The Wuhan-Hu-1 (NC_045512.2) sequence is indicated in bold, and selected antigens (Supplemental Table 3) are boxed and shaded.

NC_014470.1	---MKFLAFLCCLGFANAQDGKCGTLSNKSPSKLTQTPSSRRGFYYFDDIFRSSIRVLT	57
KF569996.1	MFLTCFILSFSILFCVSGDSIDTCETFDVSPQQLVSSSKRGVYYPDDIYRSDVHHLVQ	60
KY417144.1	---MKLLVLFVATLVSSYTIKCLDFDDRTTPANTQFLSSHRGVYYPDDIFRSNVLHLVQ	57
KC881005.1	---MKLLVLFVATLVSSYTIKCLDFDDRTTPANTQFLSSHRGVYYPDDIFRSNVLHLVQ	57
KC881006.1	---MKLLVLFVATLVSSYTIKCLDFDDRTTPANTQFLSSHRGVYYPDDIFRSNVLHLVQ	57
KF367457.1	---MKLLVLFVATLVSSYTIKCLDFDDRTTPANTQFLSSHRGVYYPDDIFRSNVLHLVQ	57
KY417152.1	---MKLLVLFVATLVSSYTIKCLDFDDRTTPANTQFLSSHRGVYYPDDIFRSNVLHLVQ	57
KY417151.1	---MKLLVLFVATLVSSYTIKCLDFDDRTTPANTQFLSSHRGVYYPDDIFRSNVLHLVQ	57
KY417146.1	----MFIFLLFLLTLTSGSDLESCTTFDDVQAPNYPQHSSSRGVYYPDEIFRSDTLVLTQ	56
KT444582.1	----MFIFLLFLLTLTSGSDLESCTTFDDVQAPNYPQHSSSRGVYYPDEIFRSDTLVLTQ	56
AY278488.2	----MFIFLLFLLTLTSGSDLDRCCTTFDDVQAPNYTQHTSSMRGVYYPDEIFRSDTLVLTQ	56
AY274119	----MFIFLLFLLTLTSGSDLDRCCTTFDDVQAPNYTQHTSSMRGVYYPDEIFRSDTLVLTQ	56
AP006560.1	----MFIFLLFLLTLTSGSDLDRCCTTFDDVQAPNYTQHTSSMRGVYYPDEIFRSDTLVLTQ	56
AP006557.1	----MFIFLLFLLTLTSGSDLDRCCTTFDDVQAPNYTQHTSSMRGVYYPDEIFRSDTLVLTQ	56
AY485277.1	----MFIFLLFLLTLTSGSDLDRCCTTFDDVQAPNYTQHTSSMRGVYYPDEIFRSDTLVLTQ	56
AY572038.1	----MFIFLLFLLTLTSGSDLDRCCTTFDDVQAPNYTQHTSSMRGVYYPDEIFRSDTLVLTQ	56
AY572034.1	----MFIFLLFLLTLTSGSDLDRCCTTFDDVQAPNYTQHTSSMRGVYYPDEIFRSDTLVLTQ	56
MT040334.1	-----MFVFL-FVLPLVSSQCVNLTTRTGIPPGYTNSSTRGVYYPDKVFRSSILHLTQ	52
MW532698.1	-----MFVFL-FVLPLVSSQCVNLTTRTGIPPGYTNSSTRGVYYPDKVFRSSILHLTQ	52
MT040333.1	-----MFVFL-FVLPLVSSQCVNLTTRTGIPPGYTNSSTRGVYYPDKVFRSSILHLTQ	52
MT040336.1	-----MFVFL-FVLPLVSSQCVNLTTRTGIPPGYTNSSTRGVYYPDKVFRSSILHLTQ	52
MT040335.1	-----MFVFL-FVLPLVSSQCVNLTTRTGIPPGYTNSSTRGVYYPDKVFRSSILHLTQ	52
MN996532.2	-----MFVFL-VLLPLVSSQCVNLTTRTQLPPAYTNSSTRGVYYPDKVFRSSVLHSTQ	52
MN996529.1	-----MFVFL-VLLPLVSSQCVNLTTRTQLPPAYTNSSTRGVYYPDKVFRSSVLHSTQ	52
MN988713.1	-----MFVFL-VLLPLVSSQCVNLTTRTQLPPAYTNSSTRGVYYPDKVFRSSVLHSTQ	52
MT072688.1	-----MFVFL-VLLPLVSSQCVNLTTRTQLPPAYTNSSTRGVYYPDKVFRSSVLHSTQ	52
MN994467.1	-----MFVFL-VLLPLVSSQCVNLTTRTQLPPAYTNSSTRGVYYPDKVFRSSVLHSTQ	52
NC_045512.2	-----MFVFL-VLLPLVSSQCVNLTTRTQLPPAYTNSSTRGVYYPDKVFRSSVLHSTQ	52
MT093571.1	-----MFVFL-VLLPLVSSQCVNLTTRTQLPPAYTNSSTRGVYYPDKVFRSSVLHSTQ	52
MG772933.1	---MLF--FLFL-Q-FALVNSQCVNLTGRTPNPNYTNSSTRGVYYPDTIYRSDTLVLSQ	53
MG772934.1	---MLF--FLFL-Q-FALVNSQCVNLTGRTPNPNYTNSSTRGVYYPDTIYRSDTLVLSQ	52
KY417145.1	---MFFLIGYT-AFLIGYTAATTCVTGPTTENKLNISGSRGVYYPDDIFRSDVSVLVT	55
KP886809.1	---MKILIFAFL-VTLVKAQEGCGVINLRTQPKLSQVSSSRGVYYPDDIFRSDVSVLVT	56
KY417143.1	---MKVLIVLLS-LGLVTAQDGCCHISTKPQPLMDKFSSSRGVYYPDDIFRSDVSVLVT	56
FJ588686.1	---MKVLIVLLS-LGLVTAQDGCCHISTKPQPLMDKFSSSRGVYYPDDIFRSDVSVLVT	56
KY417148.1	---MKILIFAFL-VTLVKAQEGCGIISRKPQPKMAQVSSSRGVYYPDDIFRSDVSVLVT	56
KY417147.1	---MKILIFAFL-VTLVKAQEGCGIISRKPQPKMAQVSSSRGVYYPDDIFRSDVSVLVT	56
KY417142.1	---MKILIFAFL-VTLVKAQEGCGIISRKPQPKMAQVSSSRGVYYPDDIFRSDVSVLVT	56
GQ153542.1	---MKILIFAFL-ASLAKAQEGCGIISRKPQPKMAQVSSSRGVYYPDDIFRSDVSVLVT	56
DQ022305	---MKILIFAFL-ANLAKAQEGCGIISRKPQPKMAQVSSSRGVYYPDDIFRSDVSVLVT	56
	. * *.** * :.*.	

NC_014470.1	GHFLPFNTNLTWYLTLSKNGKQ-RIYYDNPINIFGDGVYFGLTEKSNVFRGWIFGSTLDN	116
KF569996.1	DLFLPFNSNVVGLMSFN-----YRFDNPIIPFKDGVYFAATEKSNVVRGWVFGSTMNN	113
KY417144.1	DHFLPFDSNVTREFITFG-----LNFDNPIIPFRDGIYFAATEKSNVIRGWVFGSTMNN	110
KC881005.1	DHFLPFDSNVTREFITFG-----LNFDNPIIPFRDGIYFAATEKSNVIRGWVFGSTMNN	110
KC881006.1	DHFLPFDSNVTREFITFG-----LNFDNPIIPFKDGIYFAATEKSNVIRGWVFGSTMNN	110
KF367457.1	DHFLPFDSNVTREFITFG-----LNFDNPIIPFKDGIYFAATEKSNVIRGWVFGSTMNN	110
KY417152.1	DHFLPFDSNVTREFITFG-----LNFDNPIIPFRDGIYFAATEKSNVIRGWVFGSTMNN	110
KY417151.1	DHFLPFDSNVTREFITFG-----LNFDNPIIPFRDGIYFAATEKSNVIRGWVFGSTMNN	110
KY417146.1	DLFLPFYSNVTGFHTIN-----HRFDNPVPIPFKDGIVFAATEKSNVVRGWVFGSTMNN	109
KT444582.1	DLFLPFYSNVTGFHTIN-----HRFDNPVPIPFKDGIVFAATEKSNVVRGWVFGSTMNN	109
AY278488.2	DLFLPFYSNVTGFHTIN-----HTFDNPVPIPFKDGIVFAATEKSNVVRGWVFGSTMNN	109
AY274119	DLFLPFYSNVTGFHTIN-----HTFGNPVPIPFKDGIVFAATEKSNVVRGWVFGSTMNN	109
AP006560.1	DLFLPFYSNVTGFHTIN-----HTFGNPVPIPFKDGIVFAATEKSNVVRGWVFGSTMNN	109
AP006557.1	DLFLPFYSNVTGFHTIN-----HTFGNPVPIPFKDGIVFAATEKSNVVRGWVFGSTMNN	109
AY485277.1	DLFLPFYSNVTGFHTIN-----HTFGNPVPIPFKDGIVFAATEKSNVVRGWVFGSTMNN	109
AY572038.1	DLFLPFYSNVTGFHTIN-----HTFDNPVPIPFKDGIVFAATEKSNVVRGWVFGSTMNN	109
AY572034.1	DLFLPFYSNVTGFHTIN-----HTFDNPVPIPFKDGIVFAATEKSNVVRGWVFGSTMNN	109
MT040334.1	DLFLPFFSNVTWFNTI--NYQGGFKKFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDA	110
MW532698.1	DLFLPFFSNVTWFNTIHLNYQGGFKKFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDA	112
MT040333.1	DLFLPFFSNVTWFNTI--NYQGGFKKFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDA	110
MT040336.1	DLFLPFFSNVTWFNTI--TYQGGSKKFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDA	110
MT040335.1	DLFLPFFSNVTWFNTI--NYQGGFKKFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDA	110
MN996532.2	DLFLPFFSNVTWFHAIHVSGTNGIKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDS	112
MN996529.1	DLFLPFFSNVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDS	112
MN988713.1	DLFLPFFSNVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDS	112
MT072688.1	DLFLPFFSNVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDS	112
MN994467.1	DLFLPFFSNVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDS	112
NC_045512.2	DLFLPFFSNVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDS	112
MT093571.1	DLFLPFFSNVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDS	112
MG772933.1	GYFLPFYSNVSWYYSLTNN-AATKRTPILDFKDGIVFAATEHSNIIRGWIFGTTLDN	112
MG772934.1	GYFLPFYSNVSWYYSLTNN-AATKRTPILDFKDGIVFAATEHSNIIRGWIFGTTLDN	111
KY417145.1	GPFLRFNTTLTWYNSWN-----QAYSSPILPFHGIVYFSTIDKSNVVRGWIFGTTLDN	108
KP886809.1	DYFLPFHSNLTQYFSLSIES-DKIVYFDNPILKFGDGIYFAATEKSNVIRGWVFGSTFDN	115
KY417143.1	DYFLPFDTNLTRYLSFNMDS-ATKVYFDNPILPFKDGIVFAATEKSNVVRGWIFGSTMND	115
FJ588686.1	DYFLPFDTNLTRYLSFNMDS-ATKVYFDNPILPFKDGIVFAATEKSNVVRGWIFGSTMND	115
KY417148.1	DYFLPFDSNLTQYFSLNVDS-DRYTYFDNPILDFGDGVYFAATEKSNVIRGWIFGSTFDN	115
KY417147.1	DYFLPFDSNLTQYFSLNVDS-DRYTYFDNPILDFGDGVYFAATEKSNVIRGWIFGSTFDN	115
KY417142.1	DYFLPFDSNLTQYFSLNVDS-DRYTYFDNPILDFGDGVYFAATEKSNVIRGWIFGSTFDN	115
GQ153542.1	DYFLPFDSNLTQYFSLNVDS-DRYTYFDNPILDFGDGVYFAATEKSNVVRGWIFGSSFDN	115
DQ022305	DYFLPFDSNLTQYFSLNVDS-DRYTYFDNPILDFGDGVYFAATEKSNVIRGWIFGSSFDN	115
	. ** * :.: :	..* : * .*.***. :*:.**:***:***:..

NC_014470.1	TTQSAVLFNNGTHIVIDVCNFCADPMFAVNSGQPYK-----TWIYTSAAFNCTYHRA-	169
KF569996.1	KSQSVIIMNNSTNVVIRACNFQLCDNPFFAVIRPTS----QQIETILFENAFNCTFEYVS	169
KY417144.1	KSQSVIIMNNSTNLVIRACNFELCDNPFFVVLKSNN----TQIPSYIFNNAFNCTFEYVS	166
KC881005.1	KSQSVIIMNNSTNLVIRACNFELCDNPFFVVLKSNN----TQIPSYIFNNAFNCTFEYVS	166
KC881006.1	KSQSVIIMNNSTNLVIRACNFELCDNPFFVVLKSNN----TQIPSYIFNNAFNCTFEYVS	166
KF367457.1	KSQSVIIMNNSTNLVIRACNFELCDNPFFVVLKSNN----TQIPSYIFNNAFNCTFEYVS	166
KY417152.1	KSQSVIIMNNSTNLVIRACNFELCDNPFFVVLKSNN----TQIPSYIFNNAFNCTFEYVS	166
KY417151.1	KSQSVIIMNNSTNLVIRACNFELCDNPFFVVLKSNN----TQIPSYIFNNAFNCTFEYVS	166
KY417146.1	KSQSVIIMNNSTNVVIRACNFELCDNPFFAVSKPTG----TQHTMIFDNFNCTFEYIS	165
KT444582.1	KSQSVIIMNNSTNVVIRACNFELCDNPFFAVSKPTG----TQHTMIFDNFNCTFEYIS	165
AY278488.2	KSQSVIIMNNSTNVVIRACNFELCDNPFFAVSKPMG----TQHTMIFDNFNCTFEYIS	165
AY274119	KSQSVIIMNNSTNVVIRACNFELCDNPFFAVSKPMG----TQHTMIFDNFNCTFEYIS	165
AP006560.1	KSQSVIIMNNSTNVVIRACNFELCDNPFFAVSKPMG----TQHTMIFDNFNCTFEYIS	165
AP006557.1	KSQSVIIMNNSTNVVIRACNFELCDNPFFAVSKPMG----TQHTMIFDNFNCTFEYIS	165
AY485277.1	KSQSVIIMNNSTNVVIRACNFELCDNPFFAVSKPMG----TQHTMIFDNFNCTFEYIS	165
AY572038.1	KSQSVIIMNNSTNVVIRACNFELCDNPFFVVSXPMG----TRHTMIFDNFNCTFEYIS	165
AY572034.1	KSQSVIIMNNSTNVVIRACNFELCDNPFFVVSXPMG----TQHTMIFDNFNCTFEYIS	165
MT040334.1	RTQSLIVNNATNVVIVKCEFFQCTDPFLGVYHNNNKTWVENEFRVYSSANNCTFEYIS	170
MW532698.1	RTQSLIVNNATNVVIVKCEFFQCTDPFLGVYHNNNKTWVENEFRVYSSANNCTFEYIS	172
MT040333.1	RTQSLIVNNATNVVIVKCEFFQCTDPFLGVYHNNNKTWVENEFRVYSSANNCTFEYIS	170
MT040336.1	RTQSLIVNNATNVVIVKCEFFQCTDPFLGVYHNNNKTWVENEFRVYSSANNCTFEYIS	170
MT040335.1	RTQSLIVNNATNVVIVKCEFFQCTDPFLGVYHNNNKTWVENEFRVYSSANNCTFEYIS	170
MN996532.2	KTQSLIVNNATNVVIVKCEFFQCFNDPFLGVYHNNNKSWMSEFRVYSSANNCTFEYVS	172
MN996529.1	KTQSLIVNNATNVVIVKCEFFQCFNDPFLGVYHNNNKSWMSEFRVYSSANNCTFEYVS	172
MN988713.1	KTQSLIVNNATNVVIVKCEFFQCFNDPFLGVYHNNNKSWMSEFRVYSSANNCTFEYVS	172
MT072688.1	KTQSLIVNNATNVVIVKCEFFQCFNDPFLGVYHNNNKSWMSEFRVYSSANNCTFEYVS	172
MN994467.1	KTQSLIVNNATNVVIVKCEFFQCFNDPFLGVYHNNNKSWMSEFRVYSSANNCTFEYVS	172
NC_045512.2	KTQSLIVNNATNVVIVKCEFFQCFNDPFLGVYHNNNKSWMSEFRVYSSANNCTFEYVS	172
MT093571.1	KTQSLIVNNATNVVIVKCEFFQCFNDPFLGVYHNNNKSWMSEFRVYSSANNCTFEYVS	172
MG772933.1	TSQSLIVNNATNVVIVKCNFDFCYDPLSGYYH--NNKTWSIREFAVYSSYANCTFEYVS	171
MG772934.1	TSQSLIVNNATNVVIVKCNFDFCYDPLSGYYH--NNKTWSIREFAVYSSYANCTFEYVS	170
KY417145.1	TTQSALLVNNGSAITIQVCYFQCFDNPFAFVVTAG-A-----QTSTAIYTNLRNCTYVDTL	162
KP886809.1	TTQSAIIVNNSTHIIIRVCYFNLCKDPMYTVSAG-T-----QISSWVYQNAFNCTYDRVE	169
KY417143.1	TTQSAIIVNNSTHIIIRVCYFNLCKEPMYASNE-Q-----HYKSWVYQNAFNCTYDRVE	169
FJ588686.1	TTQSAIIVNNSTHIIIRVCYFNLCKEPMYASNE-Q-----HYKSWVYQNAFNCTYDRVE	169
KY417148.1	TTQSAIIVNNSTHIIIRVCNFNLCKEPMYTVSRG-T-----QQSSWVYQSAFNCTYDRVE	169
KY417147.1	TTQSAIIVNNSTHIIIRVCNFNLCKEPMYTVSRG-T-----QQSSWVYQSAFNCTYDRVE	169
KY417142.1	TTQSAIIVNNSTHIIIRVCNFNLCKEPMYTVSRG-T-----QQSSWVYQSAFNCTYDRVE	169
GQ153542.1	TTQSAIIVNNSTHIIIRVCNFNLCKEPMYTVSRG-T-----QQNSWVYQSAFNCTYDRVE	169
DQ022305	TTQSAIIVNNSTHIIIRVCNFNLCKEPMYTVSRG-T-----QQNAWVYQSAFNCTYDRVE	169
	:** :.:.**.: : * . * *::* :*	:: ***:

NC_014470.1	HAFNISTNMNPGKFKHFREHLFKNVDGFLYVYHNYEPIDLN----	SGFPSGFSVLKPILK	225
KF569996.1	DSFLMDVGEKPGNFKHLREFIFKNKDGFLNIYSGFQNIIDVA----	NGLPSGFSLLKPLLK	225
KY417144.1	KDFNLDLGEKPGNFKDLREFVFRNKDGFLHVYSGYQPISAA----	SGLPTGFNALKPIFK	222
KC881005.1	KDFNLDLGEKPGNFKDLREFVFRNKDGFLHVYSGYQPISAA----	SGLPTGFNALKPIFK	222
KC881006.1	KDFNLDLGEKPGNFKDLREFVFRNKDGFLHVYSGYQPISAA----	SGLPTGFNALKPIFK	222
KF367457.1	KDFNLDLGEKPGNFKDLREFVFRNKDGFLHVYSGYQPISAA----	SGLPTGFNALKPIFK	222
KY417152.1	KDFNLDLGEKPGNFKDLREFVFRNKDGFLHVYSGYQPISAA----	SGLPTGFNALKPIFK	222
KY417151.1	KDFNLDLGEKPGNFKDLREFVFRNKDGFLHVYSGYQPISAA----	SGLPTGFNALKPIFK	222
KY417146.1	DSFSLDVAEKSGNFKHLREFVFNKDGFLYVYKGYQPIDVV----	RDLP SGFNILKPIFK	221
KT444582.1	DSFSLDVAEKSGNFKHLREFVFNKDGFLYVYKGYQPIDVV----	RDLP SGFNILKPIFK	221
AY278488.2	DAFSLDVSEKSGNFKHLREFVFNKDGFLYVYKGYQPIDVV----	RDLP SGFNILKPIFK	221
AY274119	DAFSLDVSEKSGNFKHLREFVFNKDGFLYVYKGYQPIDVV----	RDLP SGFNILKPIFK	221
AP006560.1	DAFSLDVSEKSGNFKHLREFVFNKDGFLYVYKGYQPIDVV----	RDLP SGFNILKPIFK	221
AP006557.1	DAFSLDVSEKSGNFKHLREFVFNKDGFLYVYKGYQPIDVV----	RDLP SGFNILKPIFK	221
AY485277.1	DAFSLDVSEKSGNFKHLREFVFNKDGFLYVYKGYQPIDVV----	RDLP SGFNILKPIFK	221
AY572038.1	DAFSLDVSEKSGNFKHLREFVFNKDGFLYVYKGYQPIDVV----	RDLP SGFNILKPIFK	221
AY572034.1	DAFSLDVSEKSGNFKHLREFVFNKDGFLYVYKGYQPIDVV----	RDLP SGFNILKPIFK	221
MT040334.1	QPFLMDLEGKQGNFKNLREFVFNKDVGYFKIYSKHTPIDLV----	RDLP RGFAALEPLVD	226
MW532688.1	QPFLMDLEGKQGNFKNLREFVFNKDVGYFKIYSKHTPIDLV----	RDLP RGFAALEPLVD	228
MT040333.1	QPFLMDLEGKQGNFKNLREFVFNKDVGYFKIYSKHTPIDLV----	RDLP RGFAALEPLVD	226
MT040336.1	QPFLMDLEGKQGNFKNLREFVFNKDVGYFKIYSKHTPIDLV----	RDLP RGFAALEPLVD	226
MT040335.1	QPFLMDLEGKQGNFKNLREFVFNKDVGYFKIYSKHTPIDLV----	RDLP RGFAALEPLVD	226
MN996532.2	QPFLMDLEGKQGNFKNLREFVFNKIDGYFKIYSKHTPINLV----	RDLP PGFSALEPLVD	228
MN996529.1	QPFLMDLEGKQGNFKNLREFVFNKIDGYFKIYSKHTPINLV----	RDLP QGFSALEPLVD	228
MN988713.1	QPFLMDLEGKQGNFKNLREFVFNKIDGYFKIYSKHTPINLV----	RDLP QGFSALEPLVD	228
MT072688.1	QPFLMDLEGKQGNFKNLREFVFNKIDGYFKIYSKHTPINLV----	RDLP QGFSALEPLVD	228
MN994467.1	QPFLMDLEGKQGNFKNLREFVFNKIDGYFKIYSKHTPINLV----	RDLP QGFSALEPLVD	228
NC_045512.2	QPFLMDLEGKQGNFKNLREFVFNKIDGYFKIYSKHTPINLV----	RDLP QGFSALEPLVD	228
MT093571.1	QPFLMDLEGKQGNFKNLREFVFNKIDGYFKIYSKHTPINLV----	RDLP QGFSALEPLVD	228
MG772933.1	KSFMLNISGNGGLFNTLREFVFRNVDGHFKIYSKFTPVNLLN----	RGLPTGLSVLQPLVE	227
MG772934.1	KSFMLNISGNGGLFNTLREFVFRNVDGHFKIYSKFTPVNLLN----	RGLPTGLSVLQPLVE	226
KY417145.1	RDLPLSLTEVDGGFKHLREFVFKTSDFGLHIYGAYQPYDHAIGATAALPAQFLPLKPLWK		222
KP886809.1	KSFQLDTAPKSGNFIALREFVFNKRDGFFTVYQDYTPVNLL----	RGLPAGLSVLKPILK	225
KY417143.1	QSFQLDTAPQTGNFKDLREYVFNKDGFLSVYNAYSPIDIP----	RGLPVGFSVLKPILK	225
FJ588686.1	QSFQLDTAPQTGNFKDLREYVFNKDGFLSVYNAYSPIDIP----	RGLPVGFSVLKPILK	225
KY417148.1	RSFQLDTAPKTGNFKDLREYVFNKRDGFLSVYQTYTAVNLP----	RGLPTGFSVLRPILK	225
KY417147.1	RSFQLDTAPKTGNFKDLREYVFNKRDGFLSVYQTYTAVNLP----	RGLPTGFSVLRPILK	225
KY417142.1	RSFQLDTAPKTGNFKDLREYVFNKRDGFLSVYQTYTAVNLP----	RGLPTGFSVLRPILK	225
GQ153542.1	KSFQLDTPVKTGNFKDLREYVFNKRDGFLSVYQTYTAVNLP----	RGLPEGFSVLRPILK	225
DQ022305	KSFQLDTPKTGNFKDLREYVFNKRDGFLSVYQTYTAVNLP----	RGLPTGFSVLKPILK	225
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NC_014470.1	LPFGLNITYVKAIMTLFS-----STQSNFDADASAYFVGHLKPLTMLVDFDENGTIIDA	279
KF569996.1	LPLGLNITNFRVLLTAFI-----PNIGTWGTSVPVAYFVGYLKPTTFMLKYDNGTIVDA	279
KY417144.1	LPLGINITNFRLLTAFP-----PRPDYWGTSAAAYFVGYLKPTTFMLKYDENGITIDA	276
KC881005.1	LPLGINITNFRLLTAFP-----PRPDYWGTSAAAYFVGYLKPTTFMLKYDENGITIDA	276
KC881006.1	LPLGINITNFRLLTAFP-----PRPDYWGTSAAAYFVGYLKPTTFMLKYDENGITIDA	276
KF367457.1	LPLGINITNFRLLTAFP-----PRPDYWGTSAAAYFVGYLKPTTFMLKYDENGITIDA	276
KY417152.1	LPLGINITNFRLLTAFP-----PRPDYWGTSAAAYFVGYLKPTTFMLKYDENGITIDA	276
KY417151.1	LPLGINITNFRLLTAFP-----PRPDYWGTSAAAYFVGYLKPTTFMLKYDENGITIDA	276
KY417146.1	LPLGINITNFRLLTAFP-----PRPDYWGTSAAAYFVGYLKPTTFMLKYDENGITIDA	276
KT444582.1	LPLGINITNFRLLTAFP-----PRPDYWGTSAAAYFVGYLKPTTFMLKYDENGITIDA	275
AY278488.2	LPLGINITNFRLLTAFP-----PRPDYWGTSAAAYFVGYLKPTTFMLKYDENGITIDA	275
AY274119	LPLGINITNFRLLTAFP-----PRPDYWGTSAAAYFVGYLKPTTFMLKYDENGITIDA	275
AP006560.1	LPLGINITNFRLLTAFP-----PRPDYWGTSAAAYFVGYLKPTTFMLKYDENGITIDA	275
AP006557.1	LPLGINITNFRLLTAFP-----PRPDYWGTSAAAYFVGYLKPTTFMLKYDENGITIDA	275
AY485277.1	LPLGINITNFRLLTAFP-----PRPDYWGTSAAAYFVGYLKPTTFMLKYDENGITIDA	275
AY572038.1	LPLGINITNFRLLTAFP-----PRPDYWGTSAAAYFVGYLKPTTFMLKYDENGITIDA	275
AY572034.1	LPLGINITNFRLLTAFP-----PRPDYWGTSAAAYFVGYLKPTTFMLKYDENGITIDA	275
MT040334.1	LPLGINITNFRLLTAFP-----PRPDYWGTSAAAYFVGYLKPTTFMLKYDENGITIDA	275
MW532698.1	LPIGINITRFQTLALHRSYLTTPGKLESGWTTGAAAYVVGYLQORTFLLSYNQNGTITDA	286
MT040333.1	LPIGINITRFQTLALHRSYLTTPGKLESGWTTGAAAYVVGYLQORTFLLSYNQNGTITDA	288
MT040336.1	LPIGINITRFQTLALHRSYLTTPGKLESGWTTGAAAYVVGYLQORTFLLSYNQNGTITDA	286
MT040335.1	LPIGINITRFQTLALHRSYLTTPGKLESGWTTGAAAYVVGYLQORTFLLSYNQNGTITDA	286
MN996532.2	LPIGINITRFQTLALHRSYLTTPGKLESGWTTGAAAYVVGYLQORTFLLSYNQNGTITDA	286
MN996529.1	LPIGINITRFQTLALHRSYLTTPGDSSSGWTAGAAAYVVGYLQPRTFLLKYNENGTITDA	288
MN988713.1	LPIGINITRFQTLALHRSYLTTPGDSSSGWTAGAAAYVVGYLQPRTFLLKYNENGTITDA	288
MT072688.1	LPIGINITRFQTLALHRSYLTTPGDSSSGWTAGAAAYVVGYLQPRTFLLKYNENGTITDA	288
MN994467.1	LPIGINITRFQTLALHRSYLTTPGDSSSGWTAGAAAYVVGYLQPRTFLLKYNENGTITDA	288
NC_045512.2	LPIGINITRFQTLALHRSYLTTPGDSSSGWTAGAAAYVVGYLQPRTFLLKYNENGTITDA	288
MT093571.1	LPIGINITRFQTLALHRSYLTTPGDSSSGWTAGAAAYVVGYLQPRTFLLKYNENGTITDA	288
MG772933.1	LPVGINITKFRLLTIHRGDP---MPNNGWTAFSAAYFVGYLKPRTFMLKYNENGTITDA	284
MG772934.1	LPVGINITKFRLLTIHRGDP---MSNNGWTAFSAAYFVGYLKPRTFMLKYNENGTITDA	283
KY417145.1	LPLGLNITSYKVVTTLKP-----TN-----QAFQAVYIVGNLKHMTMMLSFNENGTMSNA	272
KP886809.1	LPFGINITSFRVVMAMFS-----KTTSNYVPESAAYVVGNLKQSTFMLSFNQNGTITDA	279
KY417143.1	LPFGINITSFRVVMAMFS-----KTTSNYVPESAAYVVGNLKQSTFMLSFNQNGTITDA	279
FJ588686.1	LPISINITSFRVVMAMFS-----RTTSNLFPEIAAYFVGNLKYSTFMLNFNENGTITDA	279
KY417148.1	LPFGINITSFRVVMAMFS-----RTTSNLFPEIAAYFVGNLKYSTFMLNFNENGTITDA	279
KY417147.1	LPFGINITSFRVVMAMFS-----RTTSNLFPEIAAYFVGNLKYSTFMLNFNENGTITDA	279
KY417142.1	LPFGINITSFRVVMAMFS-----RTTSNLFPEIAAYFVGNLKYSTFMLNFNENGTITDA	279
GQ153542.1	LPFGINITSFRVVMAMFS-----RTTSNLFPEIAAYFVGNLKYSTFMLNFNENGTITDA	279
DQ022305	LPFGINITSFRVVMAMFS-----RTTSNLFPEIAAYFVGNLKYSTFMLNFNENGTITDA	279
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NC_014470.1	IDCSQDPLSELKCTTKSFTVEKGIYQTSNFRVTPPTTEVVRFPNITQLCPFNEVFNITSFP	339
KF569996.1	VDCSQHPLAELKCSVKSFEIDKGIYQTSNFRVSPSKEVVRFPNITNLCPFGEVFNATTFP	339
KY417144.1	VDCSQNPLAELKCSVKSFEIDKGIYQTSNFRVAPSKEVVRFPNITNLCPFGEVFNATTFP	336
KC881005.1	VDCSQNPLAELKCSVKSFEIDKGIYQTSNFRVAPSKEVVRFPNITNLCPFGEVFNATTFP	336
KC881006.1	VDCSQNPLAELKCSVKSFEIDKGIYQTSNFRVAPSKEVVRFPNITNLCPFGEVFNATTFP	336
KF367457.1	VDCSQNPLAELKCSVKSFEIDKGIYQTSNFRVAPSKEVVRFPNITNLCPFGEVFNATTFP	336
KY417152.1	VDCSQNPLAELKCSVKSFEIDKGIYQTSNFRVAPSKEVVRFPNITNLCPFGEVFNATTFP	336
KY417151.1	VDCSQNPLAELKCSVKSFEIDKGIYQTSNFRVAPSKEVVRFPNITNLCPFGEVFNATTFP	336
KY417146.1	VDCSQNPLAELKCSVKSFEIDKGIYQTSNFRVAPSKEVVRFPNITNLCPFGEVFNATTFP	335
KT444582.1	VDCSQNPLAELKCSVKSFEIDKGIYQTSNFRVAPSKEVVRFPNITNLCPFGEVFNATTFP	335
AY278488.2	VDCSQNPLAELKCSVKSFEIDKGIYQTSNFRVPSGDVVRFPNITNLCPFGEVFNATKFP	335
AY274119	VDCSQNPLAELKCSVKSFEIDKGIYQTSNFRVPSGDVVRFPNITNLCPFGEVFNATKFP	335
AP006560.1	VDCSQNPLAELKCSVKSFEIDKGIYQTSNFRVPSGDVVRFPNITNLCPFGEVFNATKFP	335
AP006557.1	VDCSQNPLAELKCSVKSFEIDKGIYQTSNFRVPSGDVVRFPNITNLCPFGEVFNATKFP	335
AY485277.1	VDCSQNPLAELKCSVKSFEIDKGIYQTSNFRVPSGDVVRFPNITNLCPFGEVFNATKFP	335
AY572038.1	VDCSQNPLAELKCSVKSFEIDKGIYQTSNFRVPSGDVVRFPNITNLCPFGEVFNATKFP	335
AY572034.1	VDCSQNPLAELKCSVKSFEIDKGIYQTSNFRVPSGDVVRFPNITNLCPFGEVFNATKFP	335
MT040334.1	VDCSLDPLSETKCTLKSLTVEKGIYQTSNFRVQPTISIVRFPNITNLCPFGEVFNASKFA	346
MW532698.1	VDCSLDPLSETKCTLKSLTVEKGIYQTSNFRVQPTISIVRFPNITNLCPFGEVFNASKFA	348
MT040333.1	VDCSLDPLSETKCTLKSLTVEKGIYQTSNFRVQPTISIVRFPNITNLCPFGEVFNASKFA	346
MT040336.1	VDCSLDPLSETKCTLKSLTVEKGIYQTSNFRVQPTISIVRFPNITNLCPFGEVFNASKFA	346
MT040335.1	VDCSLDPLSETKCTLKSLTVEKGIYQTSNFRVQPTISIVRFPNITNLCPFGEVFNASKFA	346
MN996532.2	VDCALDPLSETKCTLKSFTVEKGIYQTSNFRVQPTDSIVRFPNITNLCPFGEVFNATFA	348
MN996529.1	VDCALDPLSETKCTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATFA	348
MN988713.1	VDCALDPLSETKCTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATFA	348
MT072688.1	VDCALDPLSETKCTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATFA	348
MN994467.1	VDCALDPLSETKCTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATFA	348
NC_045512.2	VDCALDPLSETKCTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATFA	348
MT093571.1	VDCALDPLSETKCTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATFA	348
MG772933.1	VDCALDPLSETKCTLKSLTVQKGIYQTSNFRVQPTQSVVRFPNITNVCPFHKVFNATRFP	344
MG772934.1	VDCALDPLSETKCTLKSLSVQKGIYQTSNFRVQPTQSVRFPNITNVCPFHKVFNATRFP	343
KY417145.1	VDCSQDPLAELKCTLKLSVDVGKGIYQTSNFRVQPTVDVVRFPNITNLCPFDAVFNATRFP	332
KP886809.1	VDCSQNPLAELKCTTKSFNVSKGIYQTSNFRVAPVTEVVRFPNITNLCPFDKVFNATRFP	339
KY417143.1	IDCAQNPLSELKCTIKNFNVSKGIYQTSNFRVSPTHEVVRFPNITNRCPFDKVFNASRFP	339
FJ588686.1	IDCAQNPLSELKCTIKNFNVSKGIYQTSNFRVSPTHEVIRFPNITNRCPFDKVFNASRFP	339
KY417148.1	IDCAQNPLAELKCTIKNFNVSKGIYQTSNFRVSPTQEVIRFPNITNRCPFDKVFNASRFP	339
KY417147.1	IDCAQNPLAELKCTIKNFNVSKGIYQTSNFRVSPTQEVIRFPNITNRCPFDKVFNASRFP	339
KY417142.1	IDCAQNPLAELKCTIKNFNVSKGIYQTSNFRVSPTQEVVRFPNITNRCPFDKVFNASRFP	339
GQ153542.1	VDCSQNPLAELKCTIKNFNVDKGIYQTSNFRVSPTQEVIRFPNITNRCPFDRVFNASRFP	339
DQ022305	VDCSQNPLAELKCTIKNFNVDKGIYQTSNFRVSPTQEVIRFPNITNRCPFDKVFNASRFP	339

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NC_014470.1	SVYAWERMKITNCVADYSVLNYSASFSTFKCYGVSPKLNLCFSSVYADYFVVKGDDV	399
KF569996.1	SVYAWERKRISNCVADYSVLNYS-TSFSTFKCYGVSAIKLNLCFSSNVYADSFVVKGDDV	398
KY417144.1	SVYAWERKRISNCVADYSVLNYS-TSFSTFKCYGVSAIKLNLCFSSNVYADSFVVKGDDV	395
KC881005.1	SVYAWERKRISNCVADYSVLNYS-TSFSTFKCYGVSAIKLNLCFSSNVYADSFVVKGDDV	395
KC881006.1	SVYAWERKRISNCVADYSVLNYS-TSFSTFKCYGVSAIKLNLCFSSNVYADSFVVKGDDV	395
KF367457.1	SVYAWERKRISNCVADYSVLNYS-TSFSTFKCYGVSAIKLNLCFSSNVYADSFVVKGDDV	395
KY417152.1	SVYAWERKRISNCVADYSVLNYS-TSFSTFKCYGVSAIKLNLCFSSNVYADSFVVKGDDV	395
KY417151.1	SVYAWERKRISNCVADYSVLNYS-TSFSTFKCYGVSAIKLNLCFSSNVYADSFVVKGDDV	395
KY417146.1	SVYAWERKRISNCVADYSVLNYS-TSFSTFKCYGVSAIKLNLCFSSNVYADSFVVKGDDV	394
KT444582.1	SVYAWERKRISNCVADYSVLNYS-TSFSTFKCYGVSAIKLNLCFSSNVYADSFVVKGDDV	394
AY278488.2	SVYAWERKKISNCVADYSVLNYS-TFFSTFKCYGVSAIKLNLCFSSNVYADSFVVKGDDV	394
AY274119	SVYAWERKKISNCVADYSVLNYS-TFFSTFKCYGVSAIKLNLCFSSNVYADSFVVKGDDV	394
AP006560.1	SVYAWERKKISNCVADYSVLNYS-TFFSTFKCYGVSAIKLNLCFSSNVYADSFVVKGDDV	394
AP006557.1	SVYAWERKKISNCVADYSVLNYS-TFFSTFKCYGVSAIKLNLCFSSNVYADSFVVKGDDV	394
AY485277.1	SVYAWERKKISNCVADYSVLNYS-TFFSTFKCYGVSAIKLNLCFSSNVYADSFVVKGDDV	394
AY572038.1	SVYAWERKRISNCVADYSVLNYS-TSFSTFKCYGVSAIKLNLCFSSNVYADSFVVKGDDV	394
AY572034.1	SVYAWERKRISNCVADYSVLNYS-TSFSTFKCYGVSAIKLNLCFSSNVYADSFVVKGDDV	394
MT040334.1	SVYAWNKRISNCVADYSVLNYS-TSFSTFKCYGVSPKLNLCFTNVYADSFVVKGDEV	405
MW532698.1	SVYAWNKRISNCVADYSVLNYS-TSFSTFKCYGVSPKLNLCFTNVYADSFVVKGDEV	407
MT040333.1	SVYAWNKRISNCVADYSVLNYS-TSFSTFKCYGVSPKLNLCFTNVYADSFVVKGDEV	405
MT040336.1	SVYAWNKRISNCVADYSVLNYS-TSFSTFKCYGVSPKLNLCFTNVYADSFVVKGDEV	405
MT040335.1	SVYAWNKRISNCVADYSVLNYS-TSFSTFKCYGVSPKLNLCFTNVYADSFVVKGDEV	405
MN996532.2	SVYAWNKRISNCVADYSVLNYS-TSFSTFKCYGVSPKLNLCFTNVYADSFVITGDEV	407
MN996529.1	SVYAWNKRISNCVADYSVLNYS-ASFSTFKCYGVSPKLNLCFTNVYADSFVIRGDEV	407
MN988713.1	SVYAWNKRISNCVADYSVLNYS-ASFSTFKCYGVSPKLNLCFTNVYADSFVIRGDEV	407
MT072688.1	SVYAWNKRISNCVADYSVLNYS-ASFSTFKCYGVSPKLNLCFTNVYADSFVIRGDEV	407
MN994467.1	SVYAWNKRISNCVADYSVLNYS-ASFSTFKCYGVSPKLNLCFTNVYADSFVIRGDEV	407
NC_045512.2	SVYAWNKRISNCVADYSVLNYS-ASFSTFKCYGVSPKLNLCFTNVYADSFVIRGDEV	407
MT093571.1	SVYAWNKRISNCVADYSVLNYS-ASFSTFKCYGVSPKLNLCFTNVYADSFVIRGDEV	407
MG772933.1	SVYAWERTKISDCIADYTVFYNS-TSFSTFKCYGVSPKLNLCFTSVYADTFLIRFSEV	403
MG772934.1	SVYAWERTKISDCIADYTVFYNS-TSFSTFKCYGVSPKLNLCFTSVYADTFLIRFSEV	402
KY417145.1	SVYAWERVKISNCVADYTAFYNS-TSFSTFKCYGVSPKLNLCFTSVYADTFLIRFSEV	391
KP886809.1	SVYAWERTKISDCVADYTVFYNS-TSFSTFNCYGVSPKLNLCFTSVYADTFLIRFSEV	398
KY417143.1	NVYAWERTKISDCVADYTVLYNS-TSFSTFKCYGVSPKLNLCFTSVYADTFLIRSSEV	398
FJ588686.1	NVYAWERTKISDCVADYTVLYNS-TSFSTFKCYGVSPKLNLCFTSVYADTFLIRSSEV	398
KY417148.1	NVYAWERTKISDCVADYTVLYNS-TSFSTFKCYGVSPKLNLCFTSVYADTFLIRSSEV	398
KY417147.1	NVYAWERTKISDCVADYTVLYNS-TSFSTFKCYGVSPKLNLCFTSVYADTFLIRSSEV	398
KY417142.1	SVYAWERTKISDCVADYTVLYNS-TSFSTFKCYGVSPKLNLCFTSVYADTFLIRSSEV	398
GQ153542.1	SVYAWERTKISECVADYTVLYNS-TSFSTFKCYGVSPKLNLCFTSVYADTFLIRSSEV	398
DQ022305	NVYAWERTKISDCVADYTVLYNS-TSFSTFKCYGVSPKLNLCFTSVYADTFLIRSSEV	398

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NC_014470.1	RQIAPAQTGVIADYNYKLPDDFTGCVIAWNTNSLDSS---- <td>455</td>	455
KF569996.1	RQIAPGQTGVIADYNYKLPDDFMGCVLAWNTRNIDATSSGNFNKYRSLRHGKLRPFERD	458
KY417144.1	RQIAPGQTGVIADYNYKLPDDFLGCVLAWNTNSKDSSTSGNYYLYRWVRRSKLNPYERD	455
KC881005.1	RQIAPGQTGVIADYNYKLPDDFLGCVLAWNTNSKDSSTSGNYYLYRWVRRSKLNPYERD	455
KC881006.1	RQIAPGQTGVIADYNYKLPDDFTGCVLAWNTRNIDATQTGNYYKYRSLRHGKLRPFERD	455
KF367457.1	RQIAPGQTGVIADYNYKLPDDFTGCVLAWNTRNIDATQTGNYYKYRSLRHGKLRPFERD	455
KY417152.1	RQIAPGQTGVIADYNYKLPDDFMGCVLAWNTRNIDATSTGNYYKYRSLRHGKLRPFERD	455
KY417151.1	RQIAPGQTGVIADYNYKLPDDFMGCVLAWNTRNIDATSTGNYYKYRSLRHGKLRPFERD	455
KY417146.1	RQIAPGQTGVIADYNYKLPDDFLGCVLAWNTNSKDSSTSGNYYLYRWVRRSKLNPYERD	454
KT444582.1	RQIAPGQTGVIADYNYKLPDDFTGCVLAWNTRNIDATQTGNYYKYRSLRHGKLRPFERD	454
AY278488.2	RQIAPGQTGVIADYNYKLPDDFMGCVLAWNTRNIDATSTGNYYKYRYLRHGKLRPFERD	454
AY274119	RQIAPGQTGVIADYNYKLPDDFMGCVLAWNTRNIDATSTGNYYKYRYLRHGKLRPFERD	454
AP006560.1	RQIAPGQTGVIADYNYKLPDDFMGCVLAWNTRNIDATSTGNYYKYRYLRHGKLRPFERD	454
AP006557.1	RQIAPGQTGVIADYNYKLPDDFMGCVLAWNTRNIDATSTGNYYKYRYLRHGKLRPFERD	454
AY485277.1	RQIAPGQTGVIADYNYKLPDDFMGCVLAWNTRNIDATSTGNYYKYRSLRHGKLRPFERD	454
AY572038.1	RQIAPGQTGVIADYNYKLPDDFMGCVLAWNTRNIDATSTGNYYKYRYLRHGKLRPFERD	454
AY572034.1	RQIAPGQTGVIADYNYKLPDDFMGCVLAWNTRNIDATSTGNYYKYRYLRHGKLRPFERD	454
MT040334.1	RQIAPGQTGVIADYNYKLPDDFTGCVIAWNSVKQDALTGNGY--LYRLFRKSKLKPFFERD	463
MW532698.1	RQIAPGQTGVIADYNYKLPDDFTGCVIAWNSVKQDALTGNGYGYLYRLFRKSKLKPFFERD	467
MT040333.1	RQIAPGQTGVIADYNYKLPDDFTGCVIAWNSVKQDALTGNGYGYLYRLFRKSKLKPFFERD	465
MT040336.1	RQIAPGQTGVIADYNYKLPDDFTGCVIAWNSVKQDALTGDNYGYYLYRLFRKSKLKPFFERD	465
MT040335.1	RQIAPGQTGVIADYNYKLPDDFTGCVIAWNSVKQDALTGNGYGYLYRLFRKSKLKPFFERD	465
MN996532.2	RQIAPGQTGKIADYNYKLPDDFTGCVIAWNSKHIDAKEGGNFNYYLYRLFRKANLKPFFERD	467
MN996529.1	RQIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVGGNYYLYRLFRKSNLKPFFERD	467
MN988713.1	RQIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVGGNYYLYRLFRKSNLKPFFERD	467
MT072688.1	RQIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVGGNYYLYRLFRKSNLKPFFERD	467
MN994467.1	RQIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVGGNYYLYRLFRKSNLKPFFERD	467
NC_045512.2	RQIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVGGNYYLYRLFRKSNLKPFFERD	467
MT093571.1	RQIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVGGNYYLYRLFRKSNLKPFFERD	467
MG772933.1	RQVAPGQTGVIADYNYKLPDDFTGCVIAWNTAKQDV-----GNYFYRSHRSTKLKPFFERD	458
MG772934.1	RQVAPGQTGVIADYNYKLPDDFTGCVIAWNTAKQDT-----GHYFYRSHRSTKLKPFFERD	457
KY417145.1	RQVAPGETGVIADYNYKLPDDFTGCVIAWNTAKQDV-----GSYFYRSHRSSKLKPFFERD	446
KP886809.1	RQVAPGQTGVIADYNYKLPDDFTGCVIAWNTAKYDV-----GSYFYRSHRSSKLKPFFERD	453
KY417143.1	RQVAPGETGVIADYNYKLPDDFTGCVIAWNTAKQDQ-----GQYYRSSRKTKLKPFFERD	453
FJ588686.1	RQVAPGETGVIADYNYKLPDDFTGCVIAWNTAKQDQ-----GQYYRSSRKTKLKPFFERD	453
KY417148.1	RQVAPGETGVIADYNYKLPDDFTGCVIAWNTAKQDT-----GHYYRSHRKTKLKPFFERD	453
KY417147.1	RQVAPGETGVIADYNYKLPDDFTGCVIAWNTAKQDQ-----GQYYRSSRKTKLKPFFERD	453
KY417142.1	RQVAPGETGVIADYNYKLPDDFTGCVIAWNTAQQDK-----GQYYRSSRKTKLKPFFERD	453
GQ153542.1	RQVAPGETGVIADYNYKLPDDFTGCVIAWNTAKQDT-----GNYYRSHRKTKLKPFFERD	453
DQ022305	RQVAPGETGVIADYNYKLPDDFTGCVIAWNTAKHDT-----GNYYRSHRKTKLKPFFERD	453
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NC_014470.1	LSNVLFNPSGGTCSA-EGLNCYKPLASYGFTQSSGIGFQPYRVVLSFELLNAPATVCGP	514
KF569996.1	ISNVPFSPDGKPCTP-PAFNCYWPLNDYGFTTNGIGYQPYRVVLSFELLNAPATVCGP	517
KY417144.1	LSNDIYSPGGQSCSA-VGPNCYNPLRPYGFFTTAGVGHQPYRVVLSFELLNAPATVCGP	514
KC881005.1	LSNDIYSPGGQSCSA-VGPNCYNPLRPYGFFTTAGVGHQPYRVVLSFELLNAPATVCGP	514
KC881006.1	ISNVPFSPDGKPCTP-PAFNCYWPLNDYGFTTNGIGYQPYRVVLSFELLNAPATVCGP	514
KF367457.1	ISNVPFSPDGKPCTP-PAFNCYWPLNDYGFTTNGIGYQPYRVVLSFELLNAPATVCGP	514
KY417152.1	ISNVPFSPDGKPCTP-PAFNCYWPLNDYGFTTNGIGYQPYRVVLSFELLNAPATVCGP	514
KY417151.1	ISNVPFSPDGKPCTP-PAFNCYWPLNDYGFTTNGIGYQPYRVVLSFELLNAPATVCGP	514
KY417146.1	LSNDIYSPGGQSCSA-IGPNCYNPLRPYGFFTTAGVGHQPYRVVLSFELLNAPATVCGP	513
KT444582.1	ISNVPFSPDGKPCTP-PAFNCYWPLNDYGFTTNGIGYQPYRVVLSFELLNAPATVCGP	513
AY278488.2	ISNVPFSPDGKPCTP-PALNCYWPLNDYGFTTNGIGYQPYRVVLSFELLNAPATVCGP	513
AY274119	ISNVPFSPDGKPCTP-PALNCYWPLNDYGFTTNGIGYQPYRVVLSFELLNAPATVCGP	513
AP006560.1	ISNVPFSPDGKPCTP-PALNCYWPLNDYGFTTNGIGYQPYRVVLSFELLNAPATVCGP	513
AP006557.1	ISNVPFSPDGKPCTP-PALNCYWPLNDYGFTTNGIGYQPYRVVLSFELLNAPATVCGP	513
AY485277.1	ISNVPFSPDGKPCTP-PALNCYWPLNDYGFTTNGIGYQPYRVVLSFELLNAPATVCGP	513
AY572038.1	ISNVPFSPDGKPCTP-PAPNCYWPLRGYGFYTTSGIGYQPYRVVLSFELLNAPATVCGP	513
AY572034.1	ISNVPFSSDGKPCTP-PAPNCYWPLRGYGFYTTSGIGYQPYRVVLSFELLNAPATVCGP	513
MT040334.1	ISTEIIYQAGSTPCNGQVGLNCYYPLERYGFHPTTGVDYQPFRRVVLSFELLNGPATVCGP	523
MW532688.1	ISTEIIYQAGSTPCNGQVGLNCYYPLERYGFHPTTGVDYQPFRRVVLSFELLNGPATVCGP	527
MT040333.1	ISTEIIYQAGSTPCNGQVGLNCYYPLERYGFHPTTGVDYQPFRRVVLSFELLNGPATVCGP	525
MT040336.1	ISTEIIYQAGSTPCNGQVGLNCYYPLERYGFHPTTGVDYQPFRRVVLSFELLNGPATVCGP	525
MT040335.1	ISTEIIYQAGSTPCNGQVGLNCYYPLERYGFHPTTGVDYQPFRRVVLSFELLNGPATVCGP	525
MN996532.2	ISTEIIYQAGSKPCNGQTGLNCYYPLRYGFYPTDGVGHQPYRVVLSFELLNAPATVCGP	527
MN996529.1	ISTEIIYQAGSTPCNGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVLSFELLHAPATVCGP	527
MN988713.1	ISTEIIYQAGSTPCNGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVLSFELLHAPATVCGP	527
MT072688.1	ISTEIIYQAGSTPCNGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVLSFELLHAPATVCGP	527
MN994467.1	ISTEIIYQAGSTPCNGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVLSFELLHAPATVCGP	527
NC_045512.2	ISTEIIYQAGSTPCNGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVLSFELLHAPATVCGP	527
MT093571.1	ISTEIIYQAGSTPCNGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVLSFELLHAPATVCGP	527
MG772933.1	LSSD-E-----NGVRTLSTYDFNPNVPLEYQATRVVLSFELLNAPATVCGP	504
MG772934.1	LSSD-E-----NGVRTLSTYDFNPNVPLEYQATRVVLSFELLNAPATVCGP	503
KY417145.1	LSSD-E-----NGVRTLSTYDFNPNVPLDYQATRVVLSFELLNAPATVCGP	492
KP886809.1	LSSE-E-----NGARTLSTYDFNQNPVPLEYQATRVVLSFELLNAPATVCGP	499
KY417143.1	LTSD-E-----NGVRTLSTYDFYPNVPIEYQATRVVLSFELLNAPATVCGP	499
FJ588686.1	LTSD-E-----NGVRTLSTYDFYPNVPIEYQATRVVLSFELLNAPATVCGP	499
KY417148.1	LSSDDG-----NGVYTLSTYDFNPNVPVAYQATRVVLSFELLNAPATVCGP	500
KY417147.1	LSSD-E-----NGVRTLSTYDFYPTVPIEYQATRVVLSFELLNAPATVCGP	499
KY417142.1	LSSD-E-----NGVRTLSTYDFYPTVPIEYQATRVVLSFELLNAPATVCGP	499
GQ153542.1	LSSDDG-----NGVYTLSTYDFNPNVPVAYQATRVVLSFELLNAPATVCGP	500
DQ022305	LSSDDG-----NGVYTLSTYDFNPNVPVAYQATRVVLSFELLNAPATVCGP	500
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NC_014470.1	KQSTELVKNKCVNFNFNGLTGTGVLTNSTKKFQPFQQFGRDVSDFDTSVRDPKTLEILDI	574
KF569996.1	KLSTDLITNQCVMNFNFNGLTGTGVLTPSLKRFQPFQQFGRDVSDFDTSVRDPKTLEVLDI	577
KY417144.1	KLSTDLIKNCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	574
KC881005.1	KLSTDLIKNCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	574
KC881006.1	KLSTDLIKNCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	574
KF367457.1	KLSTDLIKNCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	574
KY417152.1	KLSTDLIKNCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	574
KY417151.1	KLSTDLIKNCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	574
KY417146.1	KLSTDLIKNCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	573
KT444582.1	KLSTDLIKNCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	573
AY278488.2	KLSTDLIKNCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	573
AY274119	KLSTDLIKNCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	573
AP006560.1	KLSTDLIKNCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	573
AP006557.1	KLSTDLIKNCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	573
AY485277.1	KLSTDLIKNCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	573
AY572038.1	KLSTDLIKNCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	573
AY572034.1	KLSTDLIKNCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	573
MT040334.1	KLSTTLVKDKCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	583
MW532698.1	KLSTTLVKDKCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	587
MT040333.1	KLSTTLVKDKCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	585
MT040336.1	KLSTTLVKDKCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	585
MT040335.1	KLSTTLVKDKCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	585
MN996532.2	KKSTNLVKNKCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	587
MN996529.1	KKSTNLVKNKCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	587
MN988713.1	KKSTNLVKNKCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	587
MT072688.1	KKSTNLVKNKCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	587
MN994467.1	KKSTNLVKNKCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	587
NC_045512.2	KKSTNLVKNKCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	587
MT093571.1	KKSTNLVKNKCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	587
MG772933.1	KLSTQLVKNQCVNFNFNGLKGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	564
MG772934.1	KLSTQLVKNQCVNFNFNGLKGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	563
KY417145.1	KLSTQLVKNQCVNFNFNGLKGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	552
KP886809.1	KLSTSLVKNQCVNFNFNGLKGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	559
KY417143.1	KLSTALVKNQCVNFNFNGLKGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	559
FJ588686.1	KLSTGLVKNQCVNFNFNGLKGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	559
KY417148.1	KLSTQLVKNQCVNFNFNGLKGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	560
KY417147.1	KLSTGLVKNQCVNFNFNGLKGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	559
KY417142.1	KLSTGLVKNQCVNFNFNGLKGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	559
GQ153542.1	KLSTQLVKNQCVNFNFNGLKGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	560
DQ022305	KLSTELVKNKCVNFNFNGLKGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDI	560
	* ** *.:.:*****.:* **** * * * *****:* * *:*****:* :.***	

NC_014470.1	APCSFGGVSVITPGTNASSSEVAVLYQDVNCTDVPTMLHADQISHDRVYAFRNDGNIFQT	634
KF569996.1	SPCSFGGVSVITPGTNISSSEVAVLYQDVNCTDVPTAIHADQLTPAWRIYSA--GVNVFQT	635
KY417144.1	SPCSFGGVSVITPGTNTSSSEVAVLYQDVNCTDVPVAIHADQLTPSWRVYST--GNNVFQT	632
KC881005.1	SPCSFGGVSVITPGTNTSSSEVAVLYQDVNCTDVPVAIHADQLTPSWRVYST--GNNVFQT	632
KC881006.1	SPCSFGGVSVITPGTNTSSSEVAVLYQDVNCTDVPVAIHADQLTPSWRVYST--GNNVFQT	632
KF367457.1	SPCSFGGVSVITPGTNTSSSEVAVLYQDVNCTDVPVAIHADQLTPSWRVHST--GNNVFQT	632
KY417152.1	SPCSFGGVSVITPGTNTSSSEVAVLYQDVNCTDVPVAIHADQLTPAWRIYST--GNNVFQT	632
KY417151.1	SPCSFGGVSVITPGTNTSSSEVAVLYQDVNCTDVPVAIHADQLTPAWRIYST--GNNVFQT	632
KY417146.1	SPCSFGGVSVITPGTNTSSSEVAVLYQDVNCTDVPVAIHADQLTPAWRIYST--GNNVFQT	631
KT444582.1	SPCSFGGVSVITPGTNTSSSEVAVLYQDVNCTDVPVAIHADQLTPSWRVYST--GNNVFQT	631
AY278488.2	SPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVSTAIHADQLTPAWRIYST--GNNVFQT	631
AY274119	SPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVSTAIHADQLTPAWRIYST--GNNVFQT	631
AP006560.1	SPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVSTAIHADQLTPAWRIYST--GNNVFQT	631
AP006557.1	SPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVSTAIHADQLTPAWRIYST--GNNVFQT	631
AY485277.1	SPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVSTAIHADQLTPAWRIYST--GNNVFQT	631
AY572038.1	SPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVSTLIHAEQLTPAWRIYST--GNNVFQT	631
AY572034.1	SPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVSTLIHAEQLTPAWRIYST--GNNVFQT	631
MT040334.1	TPCSFGGVSVITPGTNTSNQVAVLYQDVNCTEVPMAIHAEQLTPAWRVYSA--GANVFQT	641
MW532698.1	TPCSFGGVSVITPGTNTSNQVAVLYQDVNCTEVPMAIHAEQLTPAWRVYSA--GANVFQT	645
MT040333.1	TPCSFGGVSVITPGTNTSNQVAVLYQDVNCTEVPMAIHAEQLTPAWRVYSA--GANVFQT	643
MT040336.1	TPCSFGGVSVITPGTNTSNQVAVLYQDVNCTEVPMAIHAEQLTPAWRVYSA--GANVFQT	643
MT040335.1	TPCSFGGVSVITPGTNTSNQVAVLYQDVNCTEVPMAIHAEQLTPAWRVYSA--GANVFQT	643
MN996532.2	TPCSFGGVSVITPGTNASNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYST--GSNVFQT	645
MN996529.1	TPCSFGGVSVITPGTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYST--GSNVFQT	645
MN988713.1	TPCSFGGVSVITPGTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYST--GSNVFQT	645
MT072688.1	TPCSFGGVSVITPGTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYST--GSNVFQT	645
MN994467.1	TPCSFGGVSVITPGTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYST--GSNVFQT	645
NC_045512.2	TPCSFGGVSVITPGTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYST--GSNVFQT	645
MT093571.1	TPCSFGGVSVITPGTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYST--GSNVFQT	645
MG772933.1	TPCSFGGVSVITPGTNTSLEVAVLYQDVNCTDVPTTIHADQLTPAWRIYAT--GTNVFQT	622
MG772934.1	TPCSFGGVSVITPGTNTSSSEVAVLYQDVNCTDVPTTIHADQLTPAWRIYAI--GTSVFQT	621
KY417145.1	TPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVPTTIRADQLTPAWRVYST--GVNVFQT	610
KP886809.1	SPCSFGGVSVITPGTNTSSAVAVLYQDVNCTDVPKTIHADQLAPSWRVYTS--GPFVFQT	617
KY417143.1	TPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVPTAIRADQLTPAWRVYST--GINVFQT	617
FJ588686.1	TPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVPTAIRADQLTPAWRVYST--GVNVFQT	617
KY417148.1	TPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVPTAIRADQLTPAWRVYST--GINVFQT	618
KY417147.1	TPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVPTAIRADQLTPAWRVYST--GINVFQT	617
KY417142.1	TPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVPTAIRADQLTPAWRVYST--GVNVFQT	617
GQ153542.1	SPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVPTAIRADQLTPAWRVYST--GVNVFQT	618
DQ022305	SPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVPTAIRADQLTPAWRVYST--GVNVFQT	618
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NC_014470.1	QAGCLIGAAYDNSSYECDIPIGAGICAKYTNVSS---TLVRSGGHSILAYTMSLGDNQDI	691
KF569996.1	QAGCLIGAETHVNASYECDIPIGAGICASYHTAS----LLRNTDQKSIVAYTMSLGAENSI	691
KY417144.1	QAGCLIGAETHVDTSYECDIPIGAGICASYHTVS----SLRSTSQKSIVAYTMSLGAENSI	688
KC881005.1	QAGCLIGAETHVDTSYECDIPIGAGICASYHTVS----SLRSTSQKSIVAYTMSLGAENSI	688
KC881006.1	QAGCLIGAETHVDTSYECDIPIGAGICASYHTVS----SLRSTSQKSIVAYTMSLGAENSI	688
KF367457.1	QAGCLIGAETHVDTSYECDIPIGAGICASYHTVS----SLRSTSQKSIVAYTMSLGAENSI	688
KY417152.1	QAGCLIGAETHVDTSYECDIPIGAGICASYHTVS----SLRSTSQKSIVAYTMSLGAENSI	688
KY417151.1	QAGCLIGAETHVDTSYECDIPIGAGICASYHTVS----SLRSTSQKSIVAYTMSLGAENSI	688
KY417146.1	QAGCLIGAETHVDTSYECDIPIGAGICASYHTVS----SLRSTSQKSIVAYTMSLGAENSI	687
KT444582.1	QAGCLIGAETHVDTSYECDIPIGAGICASYHTVS----SLRSTSQKSIVAYTMSLGAENSI	687
AY278488.2	QAGCLIGAETHVDTSYECDIPIGAGICASYHTVS----LLRSTSQKSIVAYTMSLGAENSI	687
AY274119	QAGCLIGAETHVDTSYECDIPIGAGICASYHTVS----LLRSTSQKSIVAYTMSLGAENSI	687
AP006560.1	QAGCLIGAETHVDTSYECDIPIGAGICASYHTVS----LLRSTSQKSIVAYTMSLGAENSI	687
AP006557.1	QAGCLIGAETHVDTSYECDIPIGAGICASYHTVS----LLRSTSQKSIVAYTMSLGAENSI	687
AY485277.1	QAGCLIGAETHVDTSYECDIPIGAGICASYHTVS----LLRSTSQKSIVAYTMSLGAENSI	687
AY572038.1	QAGCLIGAETHVDTSYECDIPIGAGICASYHTVS----SLRSTSQKSIVAYTMSLGAENSI	687
AY572034.1	QAGCLIGAETHVDTSYECDIPIGAGICASYHTVS----SLRSTSQKSIVAYTMSLGAENSI	687
MT040334.1	RAGCLVGAETHVNNSYECDIPIVGAGICASYHMS----SLRSVNQRSIIAYTMSLGAENSV	697
MW532688.1	RAGCLVGAETHVNNSYECDIPIVGAGICASYHMS----SFRSVNQRSIIAYTMSLGAENSV	701
MT040333.1	RAGCLVGAETHVNNSYECDIPIVGAGICASYHMS----SLRSVNQRSIIAYTMSLGAENSV	699
MT040336.1	RAGCLVGAETHVNNSYECDIPIVGAGICASYHMS----SFRSVNQRSIIAYTMSLGAENSV	699
MT040335.1	RAGCLVGAETHVNNSYECDIPIVGAGICASYHMS----SFRSVNQRSIIAYTMSLGAENSV	699
MN996532.2	RAGCLIGAETHVNNSYECDIPIGAGICASYQTQTN-----RSVASQSI IAYTMSLGAENSV	701
MN996529.1	RAGCLIGAETHVNNSYECDIPIGAGICASYQTQTN-----RPRARSVASQSI IAYTMSLGAENSV	705
MN988713.1	RAGCLIGAETHVNNSYECDIPIGAGICASYQTQTN-----RPRARSVASQSI IAYTMSLGAENSV	705
MT072688.1	RAGCLIGAETHVNNSYECDIPIGAGICASYQTQTN-----RPRARSVASQSI IAYTMSLGAENSV	705
MN994467.1	RAGCLIGAETHVNNSYECDIPIGAGICASYQTQTN-----RPRARSVASQSI IAYTMSLGAENSV	705
NC_045512.2	RAGCLIGAETHVNNSYECDIPIGAGICASYQTQTN-----RPRARSVASQSI IAYTMSLGAENSV	705
MT093571.1	RAGCLIGAETHVNNSYECDIPIGAGICASYQTQTN-----RPRARSVASQSI IAYTMSLGAENSV	705
MG772933.1	QAGCLIGAETHVNASYECDIPIGAGICASYHTAS----ILRSTGQKAI VAYTMSLGAENSI	678
MG772934.1	QAGCLIGAETHVNASYECDIPIGAGICASYHTAS----ILRSTGQKAI VAYTMSLGAENSI	677
KY417145.1	QAGCLIGAETHVNASYECDIPIGAGICASYHTAS----TLRSGVQKSIVAYTMSLGAENSI	666
KP886809.1	QAGCLIGAETHVNSSYECDIPIGAGICASYHTAS----VLRSTGQKSIVAYTMSLGAENSV	673
KY417143.1	QAGCLIGAETHVNASYECDIPIGAGICASYHTAS----TLRSGVQKSIVAYTMSLGAENSI	673
FJ588686.1	QAGCLIGAETHVNASYECDIPIGAGICASYHTAS----TLRSGVQKSIVAYTMSLGAENSI	673
KY417148.1	QAGCLIGAETHVNASYECDIPIGAGICASYHTAS----TLRSGVQKSIVAYTMSLGAENSI	674
KY417147.1	QAGCLIGAETHVNASYECDIPIGAGICASYHTAS----TLRSGVQKSIVAYTMSLGAENSI	673
KY417142.1	QAGCLIGAETHVNASYECDIPIGAGICASYHTAS----TLRSGVQKSIVAYTMSLGAENSI	673
GQ153542.1	QAGCLIGAETHVNASYECDIPIGAGICASYHTAS----VLRSTGQKSIVAYTMSLGAENSI	674
DQ022305	QAGCLIGAETHVNASYECDIPIGAGICASYHTAS----VLRSTGQKSIVAYTMSLGAENSI	674

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NC_014470.1	VYSNNTIAIPMNFISISVTTEVLVPSMTKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	751
KF569996.1	AYANNSIAIPTNFSISITTEVMPVSMKTSVDCTMYICGDSQECNLLLQYGSFCTQLNR	751
KY417144.1	AYSNNNTIAIPTNFSISITTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	748
KC881005.1	AYSNNNTIAIPTNFSISITTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	748
KC881006.1	AYSNNNTIAIPTNFSISITTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	748
KF367457.1	AYSNNNTIAIPTNFSISITTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	748
KY417152.1	VYSNNTIAIPTNFSISITTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	748
KY417151.1	VYSNNTIAIPTNFSISITTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	748
KY417146.1	AYSNNNTIAIPTNFSISITTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	747
KT444582.1	AYSNNNTIAIPTNFSISITTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	747
AY278488.2	AYSNNNTIAIPTNFSISITTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	747
AY274119	AYSNNNTIAIPTNFSISITTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	747
AP006560.1	AYSNNNTIAIPTNFSISITTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	747
AP006557.1	AYSNNNTIAIPTNFSISITTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	747
AY485277.1	AYSNNNTIAIPTNFSISITTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	747
AY572038.1	AYSNNNTIAIPTNFSISITTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	747
AY572034.1	AYSNNNTIAIPTNFSISITTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	747
MT040334.1	AYSNNNTIAIPTNFTISVTTEILPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	757
MW532698.1	AYSNNNTIAIPTNFTISVTTEILPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	761
MT040333.1	AYSNNNTIAIPTNFTISVTTEILPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	759
MT040336.1	AYSNNNTIAIPTNFTISVTTEILPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	759
MT040335.1	AYSNNNTIAIPTNFTISVTTEILPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	759
MN996532.2	AYSNNNTIAIPTNFTISVTTEILPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	761
MN996529.1	AYSNNNTIAIPTNFTISVTTEILPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	765
MN988713.1	AYSNNNTIAIPTNFTISVTTEILPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	765
MT072688.1	AYSNNNTIAIPTNFTISVTTEILPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	765
MN994467.1	AYSNNNTIAIPTNFTISVTTEILPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	765
NC_045512.2	AYSNNNTIAIPTNFTISVTTEILPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	765
MT093571.1	AYSNNNTIAIPTNFTISVTTEILPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	765
MG772933.1	AYANNSIAIPTNFSISVTTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	738
MG772934.1	AYANNSIAIPTNFSISVTTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	737
KY417145.1	AYANNSIAIPTNFSISVTTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	726
KP886809.1	AYANNSIAIPTNFSISVTTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	733
KY417143.1	AYANNSIAIPTNFSISVTTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	733
FJ588686.1	AYANNSIAIPTNFSISVTTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	733
KY417148.1	AYANNSIAIPTNFSISVTTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	734
KY417147.1	AYANNSIAIPTNFSISVTTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	733
KY417142.1	AYANNSIAIPTNFSISVTTEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	733
GQ153542.1	AYANNSIAIPTNFSISVTIEVMPVSMKTSVDCNMYICGDSIECSNLLLQYGSFCTQLNR	734
DQ022305	AYANNSIAIPTNFSISVTTEVMPVSMKTAVDCTMYICGDSIECSNLLLQYGSFCTQLNR	734

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NC_014470.1	ALGIAIEQDNRTRDVFQAQTKAMYKTPSLKDFGGFNFSQILPDPAPKPS	SRSFIEDLLYNK	811
KF569996.1	ALSGIAVEQDKNTQEVFAQVQKIYKTPAIKDFGGFNFSQILPDPSPKPT	KRSFIEDLLFNK	811
KY417144.1	ALSGIAVEQDNRTRVFAQVQKQMYKTPTLKDFFGGFNFSQILPDLPKPT	KRSFIEDLLFNK	808
KC881005.1	ALSGIAVEQDNRTRVFAQVQKQMYKTPTLKDFFGGFNFSQILPDLPKPT	KRSFIEDLLFNK	808
KC881006.1	ALSGIAVEQDNRTRVFAQVQKQMYKTPTLKDFFGGFNFSQILPDLPKPT	KRSFIEDLLFNK	808
KF367457.1	ALSGIAVEQDNRTRVFAQVQKQMYKTPTLKDFFGGFNFSQILPDLPKPT	KRSFIEDLLFNK	808
KY417152.1	ALSGIAVEQDNRTRVFAQVQKQMYKTPTLKDFFGGFNFSQILPDLPKPT	KRSFIEDLLFNK	808
KY417151.1	ALSGIAVEQDNRTRVFAQVQKQMYKTPTLKDFFGGFNFSQILPDLPKPT	KRSFIEDLLFNK	808
KY417146.1	ALSGIAVEQDNRTRVFAQVQKQMYKTPALKDFGGFNFSQILPDLPKPT	KRSFIEDLLFNK	807
KT444582.1	ALSGIAVEQDNRTRVFAQVQKQMYKTPTLKDFFGGFNFSQILPDLPKPT	KRSFIEDLLFNK	807
AY278488.2	ALSGIAAEQDNRTRVFAQVQKQMYKTPTLKYFGGFNFSQILPDLPKPT	KRSFIEDLLFNK	807
AY274119	ALSGIAAEQDNRTRVFAQVQKQMYKTPTLKYFGGFNFSQILPDLPKPT	KRSFIEDLLFNK	807
AP006560.1	ALSGIAAEQDNRTRVFAQVQKQMYKTPTLKYFGGFNFSQILPDLPKPT	KRSFIEDLLFNK	807
AP006557.1	ALSGIAAEQDNRTRVFAQVQKQMYKTPTLKYFGGFNFSQILPDLPKPT	KRSFIEDLLFNK	807
AY485277.1	ALSGIAAEQDNRTRVFAQVQKQMYKTPTLKYFGGFNFSQILPDLPKPT	KRSFIEDLLFNK	807
AY572038.1	ALSGIAAEQDNRTRVFAQVQKQMYKTPTLKDFFGGFNFSQILPDLPKPT	KRSFIEDLLFNK	807
AY572034.1	ALSGIAAEQDNRTRVFAQVQKQMYKTPTLKDFFGGFNFSQILPDLPKPT	KRSFIEDLLFNK	807
MT040334.1	ALTGIAVEQDKNTQEVFAQVQKIYKTPPIKDFGGFNFSQILPDPSPKPS	KRSFIEDLLFNK	817
MW532698.1	ALTGIAVEQDKNTQEVFAQVQKIYKTPPIKDFGGFNFLQILPDPSPKPS	KRSFIEDLLFNK	821
MT040333.1	ALTGIAVEQDKNTQEVFAQVQKIYKTPPIKDFGGFNFSQILPDPSPKPS	KRSFIEDLLFNK	819
MT040336.1	ALTGIAVEQDKNTQEVFAQVQKIYKTPPIKDFGGFNFSQILPDPSPKPS	KRSFIEDLLFNK	819
MT040335.1	ALTGIAVEQDKNTQEVFAQVQKIYKTPPIKDFGGFNFSQILPDPSPKPS	KRSFIEDLLFNK	819
MN996532.2	ALTGIAVEQDKNTQEVFAQVQKIYKTPPIKDFGGFNFSQILPDPSPKPS	KRSFIEDLLFNK	821
MN996529.1	ALTGIAVEQDKNTQEVFAQVQKIYKTPPIKDFGGFNFSQILPDPSPKPS	KRSFIEDLLFNK	825
MN988713.1	ALTGIAVEQDKNTQEVFAQVQKIYKTPPIKDFGGFNFSQILPDPSPKPS	KRSFIEDLLFNK	825
MT072688.1	ALTGIAVEQDKNTQEVFAQVQKIYKTPPIKDFGGFNFSQILPDPSPKPS	KRSFIEDLLFNK	825
MN994467.1	ALTGIAVEQDKNTQEVFAQVQKIYKTPPIKDFGGFNFSQILPDPSPKPS	KRSFIEDLLFNK	825
NC_045512.2	ALTGIAVEQDKNTQEVFAQVQKIYKTPPIKDFGGFNFSQILPDPSPKPS	KRSFIEDLLFNK	825
MT093571.1	ALTGIAVEQDKNTQEVFAQVQKIYKTPPIKDCGGFNFSQILPDPSPKPS	KRSFIEDLLFNK	825
MG772933.1	ALSGIAIEQDKNTQEVFAQVQKIYKTPPIKDFGGFNFSQILPDPSPKPS	KRSFIEDLLFNK	798
MG772934.1	ALSGIAIEQDKNTQEVFAQVQKIYKTPPIKDFGGFNFSQILPDPSPKPS	KRSFIEDLLFNK	797
KY417145.1	ALTGVALEQDKNTQDVFAQVQKQMYKTPAIKDFGGFNFSQILPDPSPKPT	KRSFIEDLLFNK	786
KP886809.1	ALSGIAVEQDKNTQEVFAQVQKQMYKTPTLDRDFFGGFNFSQILPDLKPT	KRSFIEDLLYNK	793
KY417143.1	ALTGIAIEQDKNTQEVFAQVQKQMYKTPAIKDFGGFNFSQILPDPSPKPT	KRSFIEDLLFNK	793
FJ588686.1	ALTGVALEQDKNTQEVFAQVQKQMYKTPAIKDFGGFNFSQILPDPSPKPT	KRSFIEDLLFNK	793
KY417148.1	ALTGIAIEQDKNTQEVFAQVQKQMYKTPAIKDFGGFNFSQILPDPSPKPT	KRSFIEDLLFNK	794
KY417147.1	ALTGIAIEQDKNTQEVFAQVQKQMYKTPAIKDFGGFNFSQILPDPSPKPT	KRSFIEDLLFNK	793
KY417142.1	ALTGVALEQDKNTQEVFAQVQKQMYKTPAIKDFGGFNFSQILPDPSPKPT	KRSFIEDLLFNK	793
GQ153542.1	ALTGIAIEQDKNTQEVFAQVQKQMYKTPAIKDFGGFNFSQILPDPSPKPT	KRSFIEDLLFNK	794
DQ022305	ALTGIAIEQDKNTQEVFAQVQKQMYKTPAIKDFGGFNFSQILPDPSPKPT	KRSFIEDLLFNK	794
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NC_014470.1	VTLADAGFMKQYGDCLGGVNAARDLICAQKFNGLTVLPPLLTDEMIAAYTAALISGTATAG	871
KF569996.1	VTLADAGFMKQYGECLGDISAARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	871
KY417144.1	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	868
KC881005.1	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	868
KC881006.1	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	868
KF367457.1	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	868
KY417152.1	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	868
KY417151.1	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	868
KY417146.1	VTLADAGFMKQYGECLGDVNAARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	867
KT444582.1	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	867
AY278488.2	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	867
AY274119	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	867
AP006560.1	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	867
AP006557.1	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	867
AY485277.1	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	867
AY572038.1	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	867
AY572034.1	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	867
MT040334.1	VTLADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSG	877
MW532698.1	VTLADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSG	881
MT040333.1	VTLADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSG	879
MT040336.1	VTLADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSG	879
MT040335.1	VTLADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSG	879
MN996532.2	VTLADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSG	881
MN996529.1	VTLADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSG	885
MN988713.1	VTLADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSG	885
MT072688.1	VTLADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSG	885
MN994467.1	VTLADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSG	885
NC_045512.2	VTLADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSG	885
MT093571.1	VTLADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSG	885
MG772933.1	VTLADAGFIKQYGDCLGGISAARDLICAQKFNGLTVLPPLLTDEMIAAYTAALISGTATAG	858
MG772934.1	VTLADAGFIKQYGDCLGDISAARDLICAQKFNGLTVLPPLLTDEMIAAYTAALISGTATAG	857
KY417145.1	VTLADAGFMKQYGECLGDISAARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	846
KP886809.1	VTLADAGFMKQYADCLGGINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALISGTATAG	853
KY417143.1	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	853
FJ588686.1	VTLADAGFMKQYGECLGDISAARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	853
KY417148.1	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	854
KY417147.1	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	853
KY417142.1	VTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	853
GQ153542.1	VTLADAGFMKQYGECLGDVSAARDLICAQKFNGLTVLPPLLTDEMIAAYTAALVSGTATAG	854
DQ022305	VTLADAGFMKQYGDCLGDVSAARDLICAQKFNGLTVLPPLLTDEMVAAYTAALVSGTATAG	854
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CoVAX_MNS#2

NC_014470.1	FTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQDSLTTTSTAL	931
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KY417144.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	928
KC881005.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	928
KC881006.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	928
KF367457.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	928
KY417152.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	928
KY417151.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	928
KY417146.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	927
KT444582.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	927
AY278488.2	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	927
AY274119	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	927
AP006560.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	927
AP006557.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	927
AY485277.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	927
AY572038.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	927
AY572034.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	927
MT040334.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKLIANQFNSAIGKIQDSLSTASAL	937
MW532698.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKLIANQFNSAIGKIQDSLSTASAL	941
MT040333.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKLIANQFNSAIGKIQDSLSTASAL	939
MT040336.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKLIANQFNSAIGKIQDSLSTASAL	939
MT040335.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKLIANQFNSAIGKIQDSLSTASAL	939
MN996532.2	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKLIANQFNSAIGKIQDSLSTASAL	941
MN996529.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKLIANQFNSAIGKIQDSLSTASAL	945
MN988713.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKLIANQFNSAIGKIQDSLSTASAL	945
MT072688.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKLIANQFNSAIGKIQDSLSTASAL	945
MN994467.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKLIANQFNSAIGKIQDSLSTASAL	945
NC_045512.2	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKLIANQFNSAIGKIQDSLSTASAL	945
MT093571.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKLIANQFNSAIGKIQDSLSTASAL	945
MG772933.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKLIANQFNSAIGKIQESLSTASAL	918
MG772934.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKLIANQFNSAIGKIQESLSTASAL	917
KY417145.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	906
KP886809.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAITQIQESLTTTSTAL	913
KY417143.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	913
FJ588686.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	913
KY417148.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	914
KY417147.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	913
KY417142.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKQIANQFNKAISQIQESLTTTSTAL	913
GQ153542.1	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKLIANQFNSAIGKIQDSLSTASAL	914
DQ022305	WTFGAGAAALQIPFAMQMAYRFNGIGVTONVLYENQKLIANQFNSAIGKIQESLSTASAL	914
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CoVAX_MNS#8

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KY417144.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	988
KC881005.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	988
KC881006.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	988
KF367457.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	988
KY417152.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	988
KY417151.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	988
KY417146.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	987
KT444582.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	987
AY278488.2	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	987
AY274119	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	987
AP006560.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	987
AP006557.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	987
AY485277.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	987
AY572038.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	987
AY572034.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	987
MT040334.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	997
MW532698.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	1001
MT040333.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	999
MT040336.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	999
MT040335.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	999
MN996532.2	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	1001
MN996529.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	1005
MN988713.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	1005
MT072688.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	1005
MN994467.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	1005
NC_045512.2	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	1005
MT093571.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	1005
MG772933.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	978
MG772934.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	977
KY417145.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	966
KP886809.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	973
KY417143.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	973
FJ588686.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	973
KY417148.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	974
KY417147.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	973
KY417142.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	973
GQ153542.1	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	974
DQ022305	GKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDKVEAEVQIDRLITGRLQSLQ	974
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CoVAX_MNS#4

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KY417144.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQAAPHGVVFLHV	1048
KC881005.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQAAPHGVVFLHV	1048
KC881006.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQAAPHGVVFLHV	1048
KF367457.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQAAPHGVVFLHV	1048
KY417152.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQAAPHGVVFLHV	1048
KY417151.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQAAPHGVVFLHV	1048
KY417146.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQAAPHGVVFLHV	1047
KT444582.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQAAPHGVVFLHV	1047
AY278488.2	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQAAPHGVVFLHV	1047
AY274119	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQAAPHGVVFLHV	1047
AP006560.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQAAPHGVVFLHV	1047
AP006557.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQAAPHGVVFLHV	1047
AY485277.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQAAPHGVVFLHV	1047
AY572038.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQAAPHGVVFLHV	1047
AY572034.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQAAPHGVVFLHV	1047
MT040334.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQSAPHGVVFLHV	1057
MW532698.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQSAPHGVVFLHV	1061
MT040333.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQSAPHGVVFLHV	1059
MT040336.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQSAPHGVVFLHV	1059
MT040335.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQSAPHGVVFLHV	1059
MN996532.2	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQSAPHGVVFLHV	1061
MN996529.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQSAPHGVVFLHV	1065
MN988713.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQSAPHGVVFLHV	1065
MT072688.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQSAPHGVVFLHV	1065
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MG772934.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQSAPHGVVFLHV	1037
KY417145.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGRGYHLSFPPQAAPHGVVFLHV	1026
KP886809.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQAAPHGVVFLHV	1033
KY417143.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGRGYHLSFPPQAAPHGVVFLHV	1033
FJ588686.1	TYVTQQLIRAAEIRASANLAATKMSECVFGQSKRVDFCGRGYHLSFPPQAAPHGVVFLHV	1033
KY417148.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGRGYHLSFPPQAAPHGVVFLHV	1034
KY417147.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGRGYHLSFPPQAAPHGVVFLHV	1033
KY417142.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGRGYHLSFPPQAAPHGVVFLHV	1033
GQ153542.1	TYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLSFPPQSAPHGVVFLHV	1034
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CoVAX_MNS#17

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KY417144.1	TYVPSQERNFTTAPAICHEGKAYFPREGVVFNGTSWFITQRNFFSPQIITTDNTFVSGS	1108
KC881005.1	TYVPSQERNFTTAPAICHEGKAYFPREGVVFNGTSWFITQRNFFSPQIITTDNTFVSGS	1108
KC881006.1	TYVPSQERNFTTAPAICHEGKAYFPREGVVFNGTSWFITQRNFFSPQIITTDNTFVSGS	1108
KF367457.1	TYVPSQERNFTTAPAICHEGKAYFPREGVVFNGTSWFITQRNFFSPQIITTDNTFVSGS	1108
KY417152.1	TYVPSQERNFTTAPAICHEGKAYFPREGVVFNGTSWFITQRNFFSPQIITTDNTFVSGN	1108
KY417151.1	TYVPSQERNFTTAPAICHEGKAYFPREGVVFNGTSWFITQRNFFSPQIITTDNTFVSGN	1108
KY417146.1	TCVPSQERNFTTAPAICHEGKAYFPREGVVFNGTSWFITQRNFFSPQIITTDNTFVSGS	1107
KT444582.1	TYVPSQERNFTTAPAICHEGKAYFPREGVVFNGTSWFITQRNFFSPQIITTDNTFVSGS	1107
AY278488.2	TYVPSQERNFTTAPAICHEGKAYFPREGVVFNGTSWFITQRNFFSPQIITTDNTFVSGN	1107
AY274119	TYVPSQERNFTTAPAICHEGKAYFPREGVVFNGTSWFITQRNFFSPQIITTDNTFVSGN	1107
AP006560.1	TYVPSQERNFTTAPAICHEGKAYFPREGVVFNGTSWFITQRNFFSPQIITTDNTFVSGN	1107
AP006557.1	TYVPSQERNFTTAPAICHEGKAYFPREGVVFNGTSWFITQRNFFSPQIITTDNTFVSGN	1107
AY485277.1	TYVPSQERNFTTAPAICHEGKAYFPREGVVFNGTSWFITQRNFFSPQIITTDNTFVSGN	1107
AY572038.1	TYVPSQERNFTTAPAICHEGKAYFPREGVVFNGTSWFITQRNFFSPQIITTDNTFVSGN	1107
AY572034.1	TYVPSQERNFTTAPAICHEGKAYFPREGVVFSGTSWFITQRNFFSPQIITTDNTFVSGN	1107
MT040334.1	TYVPAQEKNTTAPAICHEGKAHFPREGVFSNGTHWFITQRNFYEPQIITTDNTFVSGS	1117
MW532698.1	TYVPAQEKNTTAPAICHEGKAHFPREGVFSNGTHWFITQRNFYEPQIITTDNTFVSGS	1121
MT040333.1	TYVPAQEKNTTAPAICHEGKAHFPREGVFSNGTHWFITQRNFYEPQIITTDNTFVSGS	1119
MT040336.1	TYVPAQEKNTTAPAICHEGKAHFPREGVFSNGTHWFITQRNFYEPQIITTDNTFVSGS	1119
MT040335.1	TYVPAQEKNTTAPAICHEGKAHFPREGVFSNGTHWFITQRNFYEPQIITTDNTFVSGS	1119
MN996532.2	TYVPAQEKNTTAPAICHDGKAHFPREGVFSNGTHWFVTQRNFYEPQIITTDNTFVSGS	1121
MN996529.1	TYVPAQEKNTTAPAICHDGKAHFPREGVFSNGTHWFVTQRNFYEPQIITTDNTFVSGN	1125
MN988713.1	TYVPAQEKNTTAPAICHDGKAHFPREGVFSNGTHWFVTQRNFYEPQIITTDNTFVSGN	1125
MT072688.1	TYVPAQEKNTTAPAICHDGKAHFPREGVFSNGTHWFVTQRNFYEPQIITTDNTFVSGN	1125
MN994467.1	TYVPAQEKNTTAPAICHDGKAHFPREGVFSNGTHWFVTQRNFYEPQIITTDNTFVSGN	1125
NC_045512.2	TYVPAQEKNTTAPAICHDGKAHFPREGVFSNGTHWFVTQRNFYEPQIITTDNTFVSGN	1125
MT093571.1	TYVPAQEKNTTAPAICHDGKAHFPREGVFSNGTHWFVTQRNFYEPQIITTDNTFVSGN	1125
MG772933.1	TYIPSQEKNTTAPAICHEGKAHFPREGVFSNGTHWFVTQRNFYEPKIITTDNTFVSGN	1098
MG772934.1	TYIPSQEKNTTAPAICHEGKAHFPREGVFSNGTHWFVTQRNFYEPQIITTDNTFVSGN	1097
KY417145.1	TYVPSHEKNFTTAPAICHEGKAYFPREGVFSNGTSWFITQRNFYSPQIITTDNTFVAGN	1086
KP886809.1	TYVPSQEKNTTAPAICHEGKAYFPREGVVFNGTSWFITQRNFYSPQIITTDNTFVAGN	1093
KY417143.1	TYVPSQEKNTTAPAICHEGKAYFPREGVFSNGTSWFITQRNFYSPQIITTDNTFVAGN	1093
FJ588686.1	TYVPSQEKNTTAPAICHEGKAYFPREGVFSNGTSWFITQRNFYSPQIITTDNTFVAGN	1093
KY417148.1	TYVPSQEKNTTAPAICHEGKAYFPREGVFSNGTSWFITQRNFYSPQIITTDNTFVAGN	1094
KY417147.1	TYVPSQEKNTTAPAICHEGKAYFPREGVFSNGTSWFITQRNFYSPQIITTDNTFVAGN	1093
KY417142.1	TYVPSQEKNTTAPAICHEGKAYFPREGVFSNGTSWFITQRNFYSPQIITTDNTFVAGN	1093
GQ153542.1	TYVPSQERNFTTAPAICHEGKAYFPREGVFSNGTSWFITQRNFYSPQIITTDNTFVSGN	1094
DQ022305	TYVPSQEKNTTAPAICHEGKAYFPREGVFSNGTSWFITQRNFYSPQIITTDNTFVSGN	1094

* :*:*:*****:***:***** .** **:*****:.*: *****:*.

NC_014470.1	LNEIAKSLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMATIMLCCMTSCCSCLK	1231
KF569996.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMATIILCCMTSCCSCLK	1231
KY417144.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1228
KC881005.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1228
KC881006.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1228
KF367457.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1228
KY417152.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1228
KY417151.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1228
KY417146.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1227
KT444582.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1227
AY278488.2	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1227
AY274119	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1227
AP006560.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1227
AP006557.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1227
AY485277.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1227
AY572038.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1227
AY572034.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1227
MT040334.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYIWLGFAGLIAIIMVTIMLCCMTSCCSCLK	1237
MW532698.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYIWLGFAGLIAIIMVTIMLCCMTSCCSCLK	1241
MT040333.1	LNEVAKNLNESPIDLQELGKYEQYIKWPWYIWLGFAGLIAIIMVTIMLCCMTSCCSCLK	1239
MT040336.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYIWLGFAGLIAIIMVTIMLCCMTSCCSCLK	1239
MT040335.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYIWLGFAGLIAIIMVTIMLCCMTSCCSCLK	1239
MN996532.2	LNEVAKNLNESLIDLQELGKYEQYIKWPWYIWLGFAGLIAIIMVTIMLCCMTSCCSCLK	1241
MN996529.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYIWLGFAGLIAIIMVTIMLCCMTSCCSCLK	1245
MN988713.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYIWLGFAGLIAIIMVTIMLCCMTSCCSCLK	1245
MT072688.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYIWLGFAGLIAIIMVTIMLCCMTSCCSCLK	1245
MN994467.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYIWLGFAGLIAIIMVTIMLCCMTSCCSCLK	1245
NC_045512.2	LNEVAKNLNESLIDLQELGKYEQYIKWPWYIWLGFAGLIAIIMVTIMLCCMTSCCSCLK	1245
MT093571.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYIWLGFAGLIAIIMVTIMLCCMTSCCSCLK	1245
MG772933.1	LNEVARNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIIMVTIILCCMTSCCSCLK	1218
MG772934.1	LNEVARNLNESLIDLQELGKYEHYIKWPWYVWLGFAGLIAIIMVTIILCCMTSCCSCLK	1217
KY417145.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIIMVTIILCCMTSCCSCLK	1206
KP886809.1	LNEVAKNLNDSLIDLQELGKYEQYIKWPWYVWLGFAGLVGLFMAIILLCYFTSCCSCCK	1213
KY417143.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMATIILCCMTSCCSCLK	1213
FJ588686.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMATIILCCMTSCCSCLK	1213
KY417148.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMATIILCCMTSCCSCLK	1214
KY417147.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMATIILCCMTSCCSCLK	1213
KY417142.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMATIILCCMTSCCSCLK	1213
GQ153542.1	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1214
DQ022305	LNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFAGLIAIVMTIILCCMTSCCSCLK	1214
	.*.*.*.*.**.*****.*****.*.*.*.*.*****.*	

NC_014470.1	GVCSCASCCKFDEDDHSEPVLTGVKLHYT	1259
KF569996.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1259
KY417144.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1256
KC881005.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1256
KC881006.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1256
KF367457.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1256
KY417152.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1256
KY417151.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1256
KY417146.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1255
KT444582.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1255
AY278488.2	GACSCGSCCKFDEDDSEPVKGVKLHYT	1255
AY274119	GACSCGSCCKFDEDDSEPVKGVKLHYT	1255
AP006560.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1255
AP006557.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1255
AY485277.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1255
AY572038.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1255
AY572034.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1255
MT040334.1	GCCSCGSCCKFDEDDSEPVKGVKLHYT	1265
MW532698.1	GCCSCGSCCKFDEDDSEPVKGVKLHYT	1269
MT040333.1	GCCSCGSCCKFDEDDSEPVKGVKLHYT	1267
MT040336.1	GCCSCGSCCKFDEDDSEPVKGVKLHYT	1267
MT040335.1	GCCSCGSCCKFDEDDSEPVKGVKLHYT	1267
MN996532.2	GCCSCGSCCKFDEDDSEPVKGVKLHYT	1269
MN996529.1	GCCSCGSCCKFDEDDSEPVKGVKLHYT	1273
MN988713.1	GCCSCGSCCKFDEDDSEPVKGVKLHYT	1273
MT072688.1	GCCSCGSCCKFDEDDSEPVKGVKLHYT	1273
MN994467.1	GCCSCGSCCKFDEDDSEPVKGVKLHYT	1273
NC_045512.2	GCCSCGSCCKFDEDDSEPVKGVKLHYT	1273
MT093571.1	GCCSCGSCCKFDEDDSEPVKGVKLHYT	1273
MG772933.1	GCCSCGSCCKFDEDDSEPVKGVKLHYT	1246
MG772934.1	GCCSCGFCCKFDEDDSEPVKGVKLHYT	1245
KY417145.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1234
KP886809.1	GMCSGSCCRFDEDDSEPVKGVKLHYT	1241
KY417143.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1241
FJ588686.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1241
KY417148.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1242
KY417147.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1241
KY417142.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1241
GQ153542.1	GACSCGSCCKFDEDDSEPVKGVKLHYT	1242
DQ022305	GACSCGSCCKFDEDDSEPVKGVKLHYT	1242
	* ***, **,****, ****,*****	

Supplemental Figure 4. ORF1ab clustal alignment. Clustal O (version 1.2.4) multiple sequence alignment using the sarbecoviruses listed in Supplemental Table 2. The Wuhan-Hu-1 (NC_045512.2) sequence is indicated in bold, and selected antigens (Supplemental Table 4) are boxed and shaded.

MW532698.1	MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLLDGTTCGIIIDVEKGV	60
MT040336.1	MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLLDGTTCGIIIDVEKGV	60
MT040335.1	MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLLDGTTCGIIIDVEKGV	60
MT040334.1	MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLLDGTTCGIIIDVEKGV	60
MT040333.1	MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLLDGTTCGIIIDVEKGV	60
MN996532.2	MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLLDGTTCGLVEVEKGV	60
MN988713.1	MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLLDGTTCGLVEVEKGV	60
MT093571.1	MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLLDGTTCGLVEVEKGV	60
MN996529.1	MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLLDGTTCGLVEVEKGV	60
MT072688.1	MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLLDGTTCGLVEVEKGV	60
NC_045512.2	MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLLDGTTCGLVEVEKGV	60
MN994467.1	MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLLDGTTCGLVEVEKGV	60
MG772933.1	MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLLDGTTCGLVEVEKGV	60
MG772934.1	MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARQHLLDGTTCGLVEVEKGV	60
NC_014470.1	MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDTVEEALAEARQHLLDGTTCGLVLEKGV	60
GQ153542.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
DQ022305	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
KF569996.1	MESLVLGINEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKSGTCGIVELEKGV	60
KP886809.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDTVEEALTEAREHLKNGTCGLVELEKGV	60
AY278488.2	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
AY485277.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
AP006560.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
AP006557.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
AY274119	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
AY572038.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
AY572034.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
FJ588686.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
KY417145.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
KY417144.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
KY417147.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
KY417148.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
KY417143.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
KT444582.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
KC881005.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
KC881006.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
KF367457.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
KY417152.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
KY417146.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
KY417151.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
KY417142.1	MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGV	60
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MW532698.1	LPQLEQPYVFKRSDARTAPHGHVMVELVAELDGVQYGRSGETLGVLVPHVGETPVAYRK	120
MT040336.1	LPQLEQPYVFKRSDARTAPHGHVMVELVAELDGVQYGRSGETLGVLVPHVGETPVAYRK	120
MT040335.1	LPQLEQPYVFKRSDARTAPHGHVMVELVAELDGVQYGRSGETLGVLVPHVGETPVAYRK	120
MT040334.1	LPQLEQPYVFKRSDARTAPHGHVMVELVAELDGVQYGRSGETLGVLVPHVGETPVAYRK	120
MT040333.1	LPQLEQPYVFKRSDARTAPHGHVMVELVAELDGVQYGRSGETLGVLVPHVGETPVAYRK	120
MN996532.2	LPQLEQPYVFKRSDARTAPHGHVMVELVAELNGIQYGRSGETLGVLVPHVGETPVVYRK	120
MN988713.1	LPQLEQPYVFKRSDARTAPHGHVMVELVAELEGIQYGRSGETLGVLVPHVGEIPVAYRK	120
MT093571.1	LPQLEQPYVFKRSDARTAPHGHVMVELVAELEGIQYGRSGETLGVLVPHVGEIPVAYRK	120
MN996529.1	LPQLEQPYVFKRSDARTAPHGHVMVELVAELEGIQYGRSGETLGVLVPHVGEIPVAYRK	120
MT072688.1	LPQLEQPYVFKRSDARTAPHGHVMVELVAELEGIQYGRSGETLGVLVPHVGEIPVAYRK	120
NC_045512.2	LPQLEQPYVFKRSDARTAPHGHVMVELVAELEGIQYGRSGETLGVLVPHVGEIPVAYRK	120
MN994467.1	LPQLEQPYVFKRSDARTAPHGHVMVELVAELEGIQYGRSGETLGVLVPHVGEIPVAYRK	120
MG772933.1	LPQLEQPYVFKRSDARTAPHGHVMVELVAELDGIQYGRSGETLGVLVPHVGEVPVAYRK	120
MG772934.1	LPQLEQPYVFKRSDARTAHGHVMVELVAELDGIQYGRSGETLGVLVPHVGEVPVAYRK	120
NC_014470.1	LPQLEQPYIFLKRCDARTAPHGHVMVELVAELDGVQYGRSGESLGVLVPHVGETPIGYRK	120
GQ153542.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAELDGIQFGRSGITLGVLVPHVGETPIAYRN	120
DQ022305	LPQLEQPYVFKRSDALSTNHHGKVVELVAELDGIQFGRSGITLGVLVPHVGETPIAYRN	120
KF569996.1	LPQLEQPYVFKRSDAQGTGHGHKVCELVAELDGVQFGRSGITLGVLVPHVGETPIAYRT	120
KP886809.1	LRQLEEPYVFKRSEALSTTHGHKVVELVAEMNGIQFGRSGITLGVLVPHVGETPIAYRN	120
AY278488.2	LPQLEQPYVFKRSDALSTNHHGKVVELVAEMDGIQYGRSGITLGVLVPHVGETPIAYRN	120
AY485277.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAEMDGIQYGRSGITLGVLVPHVGETPIAYRN	120
AP006560.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAEMDGIQYGRSGITLGVLVPHVGETPIAYRN	120
AP006557.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAEMDGIQYGRSGITLGVLVPHVGETPIAYRN	120
AY274119	LPQLEQPYVFKRSDALSTNHHGKVVELVAEMDGIQYGRSGITLGVLVPHVGETPIAYRN	120
AY572038.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAEMDGIQYGRSGITLGVLVPHVGETPIAYRN	120
AY572034.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAEMDGIQYGRSGITLGVLVPHVGETPIAYRN	120
FJ588686.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAEKEGIQYGRSGITLGVLVPHVGETPIAYRN	120
KY417145.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAELDGIQYGRSGITLGVLVPHVGETPIAYRN	120
KY417144.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAELDGIQYGRSGITLGVLVPHVGETPIAYRN	120
KY417147.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAELDGIQYGRSGITLGVLVPHVGETPIAYRN	120
KY417148.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAELDGVQYGRSGITLGVLVPHVGETPIAYRN	120
KY417143.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAELDGIQYGRSGITLGVLVPHVGETPIAYRN	120
KT444582.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAELDGIQYGRSGITLGVLVPHVGETPIAYRN	120
KC881005.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAELDGIQYGRSGITLGVLVPHVGETPIAYRN	120
KC881006.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAELDGIQYGRSGITLGVLVPHVGETPIAYRN	120
KF367457.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAELDGIQYGRSGITLGVLVPHVGETPIAYRN	120
KY417152.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAELDGIQYGRSGITLGVLVPHVGETPIAYRN	120
KY417146.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAELDGIQYGRSGITLGVLVPHVGETPIAYRN	120
KY417151.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAELDGIQYGRSGITLGVLVPHVGETPIAYRN	120
KY417142.1	LPQLEQPYVFKRSDALSTNHHGKVVELVAELDGIQYGRSGITLGVLVPHVGETPIAYRN	120
* **:*:*:*:* * : ** : ***** :*:*:***** :*****:*** *: **.		

MW532698.1	ILLRKNGNKGAGGHSFGIDLKSYDLGDELGTDPIDDFQVNWNTKHGSGVTRELMRELNGG	180
MT040336.1	ILLRKNGNKGAGGHSFGIDLKSYDLGDELGTDPIDDFQVNWNTKHGSGVTRELMRELNGG	180
MT040335.1	ILLRKNGNKGAGGHSFGIDLKSYDLGDELGTDPIDDFQVNWNTKHGSGVTRELMRELNGG	180
MT040334.1	ILLRKNGNKGAGGHSFGIDLKSYDLGDELGTDPIDDFQVNWNTKHGSGVTRELMRELNGG	180
MT040333.1	ILLRKNGNKGAGGHSFGIDLKSYDLGDELGTDPIDDFQVNWNTKHGSGVTRELMRELNGG	180
MN996532.2	VLLRKNGNKGAGGHSYGADLKSFDLGDELGTDPYEDFQENWNTKHSSGVTRELMRELNGG	180
MN988713.1	VLLRKNGNKGAGGHSYGADLKSFDLGDELGTDPYEDFQENWNTKHSSGVTRELMRELNGG	180
MT093571.1	VLLRKNGNKGAGGHSYGADLKSFDLGDELGTDPYEDFQENWNTKHSSGVTRELMRELNGG	180
MN996529.1	VLLRKNGNKGAGGHSYGADLKSFDLGDELGTDPYEDFQENWNTKHSSGVTRELMRELNGG	180
MT072688.1	VLLRKNGNKGAGGHSYGADLKSFDLGDELGTDPYEDFQENWNTKHSSGVTRELMRELNGG	180
NC_045512.2	VLLRKNGNKGAGGHSYGADLKSFDLGDELGTDPYEDFQENWNTKHSSGVTRELMRELNGG	180
MN994467.1	VLLRKNGNKGAGGHSYGADLKSFDLGDELGTDPYEDFQENWNTKHSSGVTRELMRELNGG	180
MG772933.1	VLLRKNGNKGAGGHSYGADLKSFDLGDELGTDPYEDFQENWNTKHGSGVTRELKRELNGG	180
MG772934.1	VLLRKNGNKGAGGHSYGADLKSFDLGDELGTDPYEDFQENWNTKHGSGVTRELKRELNGG	180
NC_014470.1	VLLRKNGNKGAGGHSYGADLKSFDLGDELGTDPYEDFQENWNTKHGSGVTRELKRELNGG	180
GQ153542.1	VLLRKNGNKGAGGHSFGIDLKSYDLGDELGTDPYEDFQENWNTKHGSGALRELTRELNGG	180
DQ022305	VLLRKNGNKGAGGHSFGIDLKSYDLGDELGTDPYEDFQENWNTKHGSGALRELTRELNGG	180
KF569996.1	VLLRKNGNKGAGGHSFGIDLKSYDLGDELGTDPYEDFQENWNTKHGSGALRELTRELNGG	180
KP886809.1	VLLRKNGNKGAGGHSYGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGVLRRELTRELNGG	180
AY278488.2	VLLRKNGNKGAGGHSYGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGALRELTRELNGG	180
AY485277.1	VLLRKNGNKGAGGHSYGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGALRELTRELNGG	180
AP006560.1	VLLRKNGNKGAGGHSYGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGALRELTRELNGG	180
AP006557.1	VLLRKNGNKGAGGHSYGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGALRELTRELNGG	180
AY274119	VLLRKNGNKGAGGHSYGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGALRELTRELNGG	180
AY572038.1	VLLRKNGNKGAGGHSYGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGALRELTRELNGG	180
AY572034.1	VLLRKNGNKGAGGHSYGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGALRELTRELNGG	180
FJ588686.1	VLLRKNGNKGAGGHSYGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGALRELTRELNGG	180
KY417145.1	VLLRKNGNKGAGGHSFGIDLRSYDLGDELGTDPYEDFQENWNTKHGSGVLRRELTRELNGG	180
KY417144.1	VLLRKNGNKGAGGHSFGIDLRSYDLGDELGTDPYEDFQENWNTKHGSGVLRRELTRELNGG	180
KY417147.1	VLLRKNGNKGAGGHSFGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGALRELTRELNGG	180
KY417148.1	VLLRKNGNKGAGGHSFGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGALRELTRELNGG	180
KY417143.1	VLLRKNGNKGAGGHSFGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGVLRRELTRELNGG	180
KT444582.1	VLLRKNGNKGAGGHSFGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGVLRRELTRELNGG	180
KC881005.1	VLLRKNGNKGAGGHSFGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGVLRRELTRELNGG	180
KC881006.1	VLLRKNGNKGAGGHSFGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGVLRRELTRELNGG	180
KF367457.1	VLLRKNGNKGAGGHSFGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGVLRRELTRELNGG	180
KY417152.1	VLLRKNGNKGAGGHSFGIDLRSYDLGDELGTDPYEDFQENWNTKHGSGVLRRELTRELNGG	180
KY417146.1	VLLRKNGNKGAGGHSFGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGVLRRELTRELNGG	180
KY417151.1	VLLRKNGNKGAGGHSFGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGALRELTRELNGG	180
KY417142.1	VLLRKNGNKGAGGHSFGIDLKSFDLGDELGTDPYEDFQENWNTKHGSGALRELTRELNGG	180

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MW532698.1	AYTRYVDNNFCGPDGYPLECIKDLLARAGKSSCSLSEQLDFIDTKRGVYCCREHEHEI	240
MT040336.1	AYTRYVDNNFCGPDGYPLECIKDLLARAGKSSCSLSEQLDFIDTKRGVYCCREHEHEI	240
MT040335.1	AYTRYVDNNFCGPDGYPLECIKDLLARAGKSSCSLSEQLDFIDTKRGVYCCREHEHEI	240
MT040334.1	AYTRYVDNNFCGPDGYPLECIKDLLARAGKSSCSLSEQLDFIDTKRGVYCCREHEHEI	240
MT040333.1	AYTRYVDNNFCGPDGYPLECIKDLLARAGKSSCSLSEQLDFIDTKRGVYCCREHEHEI	240
MN996532.2	AYTRYVDNNFCGPDGYPLECIKDLLARAGKASCTLSEQLDFIDTKRGVYCCREHEHEI	240
MN988713.1	AYTRYVDNNFCGPDGYPLECIKDLLARAGKASCTLSEQLDFIDTKRGVYCCREHEHEI	240
MT093571.1	AYTRYVDNNFCGPDGYPLECIKDLLARAGKASCTLSEQLDFIDTKRGVYCCREHEHEI	240
MN996529.1	AYTRYVDNNFCGPDGYPLECIKDLLARAGKASCTLSEQLDFIDTKRGVYCCREHEHEI	240
MT072688.1	AYTRYVDNNFCGPDGYPLECIKDLLARAGKASCTLSEQLDFIDTKRGVYCCREHEHEI	240
NC_045512.2	AYTRYVDNNFCGPDGYPLECIKDLLARAGKASCTLSEQLDFIDTKRGVYCCREHEHEI	240
MN994467.1	AYTRYVDNNFCGPDGYPLECIKDLLARAGKASCTLSEQLDFIDTKRGVYCCREHEHEI	240
MG772933.1	AYTRYVDNNFCGPDGYPLECIKDLLARAGKASYALSEQLDFIDTKRGVYCCREHEHEI	240
MG772934.1	AYTRYVDNNFCGPDGYPLECIKNFLARAGKASCTLSEQLDFIDTKRGVYCCREHEHEI	240
NC_014470.1	VYTRYVDNNFCGPDGYPLECIKDLLARAGKSSAPLAQLDFLESKRGVYCCREHEHEI	240
GQ153542.1	VVTRYVDNNFCGPDGYPLECIKDFLARAGKSMCTLSEQLDYIESKRGVYCCREHEHEI	240
DQ022305	VVTRYVDNNFCGPDGYPLECIKDFLARAGKSMCTLSEQLDYIESKRGVYCCREHEHEI	240
KF569996.1	VVTRYVDNNFCGPDGYPLECIKDLLARAGKSMCTLSEQLDFIESKRGVYCCREHEHEI	240
KP886809.1	AVTRYVDNNFCGPDGYPLECIKGLLARAGKSMCTLSEQLDFIESKRGVYCCREHEHEI	240
AY278488.2	AVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
AY485277.1	AVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
AP006560.1	AVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
AP006557.1	AVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
AY274119	AVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
AY572038.1	AVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
AY572034.1	AVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
FJ588686.1	AVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
KY417145.1	AFTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRGHEHEI	240
KY417144.1	AFTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
KY417147.1	AVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
KY417148.1	AVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
KY417143.1	AVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
KT444582.1	AVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
KC881005.1	AVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
KC881006.1	AFTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
KF367457.1	AFTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
KY417152.1	AFTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
KY417146.1	AFTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
KY417151.1	AFTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
KY417142.1	AFTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQLDYIESKRGVYCCRDHEHEI	240
. *****:*****:***.:*****: *:*:*:.:***** *:*:*.*		

MW532698.1	YTERSDKSYELQIPFEIKLAKKFDNFTGECPNFVFPLNSTIKTIQPRVEKKKLEGFMGRI	300
MT040336.1	YTERSDKSYELQTPFEIKLAKKFDNFTGECPNFVFPLNSTIKTIQPRVEKKKLEGFMGRI	300
MT040335.1	YTERSDKSYELQTPFEIKLAKKFDNFTGECPNFVFPLNSTIKTIQPRVEKKKLEGFMGRI	300
MT040334.1	YTERSDKSYELQTPFEIKLAKKFDNFTGECPNFVFPLNSTIKTIQPRVEKKKLEGFMGRI	300
MT040333.1	YTERSDKSYELQTPFEIKLAKKFDNFTGECPNFVFPLNSTIKTIQPRVEKKKLEGFMGRI	300
MN996532.2	YTERSEKSYELQTPFEIKLAKKFDTFNGECPNFVFPLNSTIKTIQPRVEKKKLDGFMGRI	300
MN988713.1	YTERSEKSYELQTPFEIKLAKKFDTFNGECPNFVFPLNSIIKTIQPRVEKKKLDGFMGRI	300
MT093571.1	YTERSEKSYELQTPFEIKLAKKFDTFNGECPNFVFPLNSIIKTIQPRVEKKKLDGFMGRI	300
MN996529.1	YTERSEKSYELQTPFEIKLAKKFDTFNGECPNFVFPLNSIIKTIQPRVEKKKLDGFMGRI	300
MT072688.1	YTERSEKSYELQTPFEIKLAKKFDTFNGECPNFVFPLNSIIKTIQPRVEKKKLDGFMGRI	300
NC_045512.2	YTERSEKSYELQTPFEIKLAKKFDTFNGECPNFVFPLNSIIKTIQPRVEKKKLDGFMGRI	300
MN994467.1	YTERSEKSYELQTPFEIKLAKKFDTFNGECPNFVFPLNSIIKTIQPRVEKKKLDGFMGRI	300
MG772933.1	YTERSEKSYELQTPFEIKLAKKFDTFNGECPNFVFPLNSTIKTIQPRVEKKKLDGFMGRI	300
MG772934.1	YTERSEKSYESQTPFEIKLAKKFDTFNGECPNFVFPLNSTIKTIQPRVEKKKLDGFMGRI	300
NC_014470.1	YTERSDKSYELQTPFDITNAKKFDSFKGECPKFVFPLNSTVKVLQPRVEKKKTEGFLGRI	300
GQ153542.1	FTERSEKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
DQ022305	FTERSEKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
KF569996.1	FTERSEKSYEHQTPFDIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
KP886809.1	YTERSDKSYEHQTPFDIKSAKKFDTFKGECPKFVFPLNSTVKVLQPRVEKKKTEGFMGRI	300
AY278488.2	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
AY485277.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
AP006560.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
AP006557.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
AY274119	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
AY572038.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
AY572034.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
FJ588686.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
KY417145.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
KY417144.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
KY417147.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLDSKVKVIQPRVEKKKTEGFMGRI	300
KY417148.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
KY417143.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
KT444582.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
KC881005.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
KC881006.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLDSKVKVIQPRVEKKKTEGFMGRI	300
KF367457.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLDSKVKVIQPRVEKKKTEGFMGRI	300
KY417152.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
KY417146.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVDKKKTEGFMGRI	300
KY417151.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300
KY417142.1	FTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRI	300

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MW532698.1	RSVYPVASEPNECNPMHLSTLMKCEHCSETSWQTGDFLKATCEFCGTENQVKEGPTTCGYL	360
MT040336.1	RSVYPVASEPNECNPMHLSTLMKCEHCSETSWQTGDFLKATCEFCGTENQVKEGPTTCGYL	360
MT040335.1	RSVYPVASEPNECNPMHLSTLMKCEHCSETSWQTGDFLKATCEFCGTENQVKEGPTTCGYL	360
MT040334.1	RSVYPVASEPNECNPMHLSTLMKCEHCSETSWQTGDFLKATCEFCGTENQVKEGPTTCGYL	360
MT040333.1	RSVYPVASEPNECNPMHLSTLMKCEHCSETSWQTGDFLKATCEFCGTENQVKEGPTTCGYL	360
MN996532.2	RSVYPVASEPNECNQMCLSTLMKCDHCGETSWQTGDFVKATCEFCGTENLTKEGATTCGYL	360
MN988713.1	RSVYPVASEPNECNQMCLSTLMKCDHCGETSWQTGDFVKATCEFCGTENLTKEGATTCGYL	360
MT093571.1	RSVYPVASEPNECNQMCLSTLMKCDHCGETSWQTGDFVKATCEFCGTENLTKEGATTCGYL	360
MN996529.1	RSVYPVASEPNECNQMCLSTLMKCDHCGETSWQTGDFVKATCEFCGTENLTKEGATTCGYL	360
MT072688.1	RSVYPVASEPNECNQMCLSTLMKCDHCGETSWQTGDFVKATCEFCGTENLTKEGATTCGYL	360
NC_045512.2	RSVYPVASEPNECNQMCLSTLMKCDHCGETSWQTGDFVKATCEFCGTENLTKEGATTCGYL	360
MN994467.1	RSVYPVASEPNECNQMCLSTLMKCDHCGETSWQTGDFVKATCEFCGTENLTKEGATTCGYL	360
MG772933.1	RSVYPVASEPNECNQMCLSTLMKCDHCGETSWQTGDFVRATCEFCGTENLTKEGATTCGYL	360
MG772934.1	RSVYPVASEPNECNQMCLSTLMKCDHCGETSWQTGDFVRATCEFCGTENLTKEGATTCGYL	360
NC_014470.1	RTVYQVASEPNECNMHLSTYMCNHCGETSWQTGDFLTATCEMCGNQNTVEEGPTTCGYL	360
GQ153542.1	RSVYPVATPQECNDMHLSTLMKCNHCDAVSWQTCDFLKATCEQCGTENLVCEGPTTCGYL	360
DQ022305	RSVYPVATPQECNDMHLSTLMKCNHCDEVSWQTCDFLKATCEQCGTENLVCEGPTTCGYL	360
KF569996.1	RSVYPVASEPQECNDMHLSTLMKCNHCDEVSWQTCDFLKATCEQCGTENLVCEGPTTCGYL	360
KP886809.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENLVVEGPTTCGYL	360
AY278488.2	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENLVIEGPTTCGYL	360
AY485277.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENLVIEGPTTCGYL	360
AP006560.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENLVIEGPTTCGYL	360
AP006557.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENLVIEGPTTCGYL	360
AY274119	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENLVIEGPTTCGYL	360
AY572038.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENLVIEGPTTCGYL	360
AY572034.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENLVIEGPTTCGYL	360
FJ588686.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGIENLITEGPTTCGYL	360
KY417145.1	RSVYSVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENSIIIEGPTTCGYL	360
KY417144.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENLVTEGPTTCGYL	360
KY417147.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENSIVTEGPTTCGYL	360
KY417148.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENSITEGPTTCGYL	360
KY417143.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENAVTEGPTTCGYL	360
KT444582.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENAVTEGPTTCGYL	360
KC881005.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENSIVTEGPTTCGYL	360
KC881006.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENSIVTEGPTTCGYL	360
KF367457.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENSIVTEGPTTCGYL	360
KY417152.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENLVTEGPTTCGYL	360
KY417146.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEQCGTENLVTEGPTTCGYL	360
KY417151.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENLVTEGPTTCGYL	360
KY417142.1	RSVYPVASEPQECNNMHLSTLMKCNHCDEVSWQTCDFLKATCEHCGTENLVTEGPTTCGYL	360

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MW532698.1	PQNAVVKIFCPACHNPEMGPEHSLAEYHNESGIKTTLRKGGRTKAFGGCVFSYVGCCHNKC	420
MT040336.1	PQNAVVKIFCPACHNPEMGPEHSLAEYHNESGIKTTLRKGGRTKAFGGCVFSYVGCCHNKC	420
MT040335.1	PQNAVVKIFCPACHNPEMGPEHSLAEYHNESGIKTTLRKGGRTKAFGGCVFSYVGCCHNKC	420
MT040334.1	PQNAVVKIFCPACHNPEMGPEHSLAEYHNESGIKTTLRKGGRTKAFGGCVFSYVGCCHNKC	420
MT040333.1	PQNAVVKIFCPACHNPEMGPEHSLAEYHNESGIKTTLRKGGRTKAFGGCVFSYVGCCHNKC	420
MN996532.2	PQNAVVKIYCPACHNPEVGPEHSLAEYHNESGLKPILRKGGRTIAFGGCVFSYVGCYNKC	420
MN988713.1	PQNAVVKIYCPACHNPEVGPEHSLAEYHNESGLKTILRKGGRTIAFGGCVFSYVGCCHNKC	420
MT093571.1	PQNAVVKIYCPACHNPEVGPEHSLAEYHNESGLKTILRKGGRTIAFGGCVFSYVGCCHNKC	420
MN996529.1	PQNAVVKIYCPACHNPEVGPEHSLAEYHNESGLKTILRKGGRTIAFGGCVFSYVGCCHNKC	420
MT072688.1	PQNAVVKIYCPACHNPEVGPEHSLAEYHNESGLKTILRKGGRTIAFGGCVFSYVGCCHNKC	420
NC_045512.2	PQNAVVKIYCPACHNPEVGPEHSLAEYHNESGLKTILRKGGRTIAFGGCVFSYVGCCHNKC	420
MN994467.1	PQNAVVKIYCPACHNPEVGPEHSLAEYHNESGLKTILRKGGRTIAFGGCVFSYVGCCHNKC	420
MG772933.1	PQNAVVKIYCPACHNPEVGPEHSLAEYHNESGLKTILRKGGRTIAFGGCVFAYVGCYNKC	420
MG772934.1	PQNAVVKIYCPACHNPEVGPEHSLAEYHNESGLKTILRKGGRTIAFGGCVFAYVGCYNKC	420
NC_014470.1	PSNAVVKMPCPACQNPEIGPDHSVADYHNHNSKIETRLRKGGRTKSFGGCVFSYVGCYNKR	420
GQ153542.1	PTNAVVKMPCPACQDPEVGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFSYVGCYNKR	420
DQ022305	PTNAVVKMPCPACQDPEVGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFSYVGCYNKR	420
KF569996.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
KP886809.1	PTNAVVKMPCPACQNKEVGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFSYVGCYNKR	420
AY278488.2	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
AY485277.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
AP006560.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
AP006557.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
AY274119	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
AY572038.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSVETRLRKGGRTKCFGGCVFAYVGCYNKR	420
AY572034.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
FJ588686.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
KY417145.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
KY417144.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
KY417147.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
KY417148.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
KY417143.1	PTNAVVKMPCPACQDQEIPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
KT444582.1	PTNAVVKMPCPACQDQEIPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
KC881005.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
KC881006.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
KF367457.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
KY417152.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
KY417146.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
KY417151.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
KY417142.1	PTNAVVKMPCPACQDPEIGPEHSDYHNHNSNIETRLRKGGRTKCFGGCVFAYVGCYNKR	420
* **.*: **.*: *.**.*:.*** * :. ***** .:*****:*****:**		

MW532698.1	AYWVPRAAANVGCNHTGVVGESES	SLNDNLLEILTKEKVNINIVGDFKL	TEEIAIILASF	480
MT040336.1	AYWVPRAAANVGCNHTGVVGESES	SLNDNLLEILTKEKVNINIVGDFKL	TEEIAIILASF	480
MT040335.1	AYWVPRAAANVGCNHTGVVGESES	SLNDNLLEILTKEKVNINIVGDFKL	TEEIAIILASF	480
MT040334.1	AYWVPRAAANVGCNHTGVVGESES	SLNDNLLEILTKEKVNINIVGDFKL	TEEIAIILASF	480
MT040333.1	AYWVPRAAANVGCNHTGVVGESES	SLNDNLLEILTKEKVNINIVGDFKL	TEEIAIILASF	480
MN996532.2	AYWIPRASANIGCNHTGVVGESEGL	NDNLLEILQKEKVNINIVGDFKL	NEEIAIILASF	480
MN988713.1	AYWVPRASANIGCNHTGVVGESEGL	NDNLLEILQKEKVNINIVGDFKL	NEEIAIILASF	480
MT093571.1	AYWVPRASANIGCNHTGVVGESEGL	NDNLLEILQKEKVNINIVGDFKL	NEEIAIILASF	480
MN996529.1	AYWVPRASANIGCNHTGVVGESEGL	NDNLLEILQKEKVNINIVGDFKL	NEEIAIILASF	480
MT072688.1	AYWVPRASANIGCNHTGVVGESEGL	NDNLLEILQKEKVNINIVGDFKL	NEEIAIILASF	480
NC_045512.2	AYWVPRASANIGCNHTGVVGESEGL	NDNLLEILQKEKVNINIVGDFKL	NEEIAIILASF	480
MN994467.1	AYWVPRAANIGCNHTGVVGESEGL	NDNLLEILQKEKVNINIVGDFKL	NEEIAIILASF	480
MG772933.1	AYWVPRASANIGCNHTGVVGESES	SLNDNLLEILQKEKVNINIVGDFKL	NEEIAIILASF	480
MG772934.1	AYWVPRASANIGCNHTGVVGESES	SLNDNLLEILQKEKVNINIVGDFKL	NEEIAIILASF	480
NC_014470.1	AFWVPRAANIGSNHTGVVGEVETM	NEDLLQILSRERVNINIVGEFCL	NEEIAIILASL	480
GQ153542.1	AYWVPRASADIGANHTGITGENVET	LNEDLLEILNRERNINIVGDFQL	NDEIAIILASF	480
DQ022305	AYWVPRASANIGANHTGITGENVET	LNEDLLEILNRERNINIVGDFR	FNEEVAIILASF	480
KF569996.1	AYWVPRASADIGANHTGITGDNVET	LNEDLLEILHRERNINIVGDFQL	TEEVAIILASF	480
KP886809.1	AYWVPRASADIGSNHTGIVGDNVET	LNEDLLEILSRERNINIVGDFQL	NEEVAIILASL	480
AY278488.2	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFHL	NEEVAIILASF	480
AY485277.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFHL	NEEVAIILASF	480
AP006560.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFHL	NEEVAIILASF	480
AP006557.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFHL	NEEVAIILASF	480
AY274119	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFHL	NEEVAIILASF	480
AY572038.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFHL	NEEVAIILASF	480
AY572034.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFHL	NEEVAIILASF	480
FJ588686.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFQL	NEEVAIILASF	480
KY417145.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILNRERNINIVGDFQL	NEEVAIILASF	480
KY417144.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFQL	TEEVAIILASF	480
KY417147.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFQL	NEEVAIILASF	480
KY417148.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFQL	NEEVAIILASF	480
KY417143.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFQL	NEEVAIILASF	480
KT444582.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFQL	NEEVAIILASF	480
KC881005.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFQL	TEEVAIILASF	480
KC881006.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFQL	NEEVAIILASF	480
KF367457.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFQL	NEEVAIILASF	480
KY417152.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFQL	TEEVAIILASF	480
KY417146.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFQL	TEEVAIILASF	480
KY417151.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFQL	TEEVAIILASF	480
KY417142.1	AYWVPRASADIGSGHTGITGDNVET	LNEDLLEILSRERNINIVGDFQL	TEEVAIILASF	480

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MW532698.1	SASTSAFVETVKGLDYKSFQIVESCENFKVTKGKFKKNAWNIGEPKISILSPYAFPSEA	540
MT040336.1	SASTSAFVETVKGLDCKSFQIVESCENFKVTKGKFKKNAWNIGEPKISILSPYAFPSEA	540
MT040335.1	SASTSAFVETVKGLDYKSFQIVESCENFKVTKGKFKKNAWNIGEPKISILSPYAFPSEA	540
MT040334.1	SASTSAFVETVKGLDYKSFQIVESCENFKVTKGKFKKNAWNIGEPKISILSPYAFPSEA	540
MT040333.1	SASTCAFVETVKGLDYKSFQIVESCENFKVTKGKFKKNAWNIGEPKISILSPYAFPSEA	540
MN996532.2	SASTSAFVETVKGLDYKTFQIVESCENFKVTKGKAKKGAWNIGEQKISILSPYAFASEA	540
MN988713.1	SASTSAFVETVKGLDYKAFKQIVESCENFKVTKGKAKKGAWNIGEQKISILSPYAFASEA	540
MT093571.1	SASTSAFVETVKGLDYKAFKQIVESCENFKVTKGKAKKGAWNIGEQKISILSPYAFASEA	540
MN996529.1	SASTSAFVETVKGLDYKAFKQIVESCENFKVTKGKAKKGAWNIGEQKISILSPYAFASEA	540
MT072688.1	SASTSAFVETVKGLDYKAFKQIVESCENFKVTKGKAKKGAWNIGEQKISILSPYAFASEA	540
NC_045512.2	SASTSAFVETVKGLDYKAFKQIVESCENFKVTKGKAKKGAWNIGEQKISILSPYAFASEA	540
MN994467.1	SASTSAFVETVKGLDYKAFKQIVESCENFKVTKGKAKKGAWNIGEQKISILSPYAFASEA	540
MG772933.1	SASISAFVETVKGLDYKTFQIVESCENFKVTKGKAKKGAWNIGEQSSILSPYAFPSDA	540
MG772934.1	SASTSAFVETVKGLDYKTFQIVESCENFKVTKGKAKKGAWNIGEQKISILSPYAFASEA	540
NC_014470.1	SASTSAFVETVKNLDFKTFKKIIESCGNYKVTKGKFKPGVWNIGTSKSLTPLHCFSSQA	540
GQ153542.1	SASASAFIETVRGLDYKSFKAIVESCENYKVTKGKPVAGAWNIGQQRILTPLCGFPSQA	540
DQ022305	SASPSAFIETVKGLDYKSFQIVESCENYKVTKGKPVGTAWNIGQQRILTPLCGFPSQA	540
KF569996.1	SASTSVFIDTVKGLDYKTFKAIVESCENYKVTRGKPVQGAWNIGQQRILTPLCGFPSQA	540
KP886809.1	SASTSAFIDTIKSLDYKSFKSIVESCENYKVTKGKPIKGAWNIGQQRSVLTPLCGFPSQA	540
AY278488.2	SASTSAFIDTIKSLDYKSFKTIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
AY485277.1	SASTSAFIDTIKSLDYKSFKTIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
AP006560.1	SASTSAFIDTIKSLDYKSFKTIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
AP006557.1	SASTSAFIDTIKSLDYKSFKTIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
AY274119	SASTSAFIDTIKSLDYKSFKTIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
AY572038.1	SASTSAFIDTIKSLDYKSFKTIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
AY572034.1	SASTSAFIDTIKSLDYKSFKTIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
FJ588686.1	SASTSAFIDTIKSLDYKSFKSIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
KY417145.1	SASTSAFIDTIKSLDYKSFKSIVESCENYKVTKGKPVKGAWNIGQRRSVLTPLCGFPSQA	540
KY417144.1	SASTSAFIDTIKSLDYKSFKAIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
KY417147.1	SASTSAFIDTIKSLDYKSFKAIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
KY417148.1	SASTSAFIDTIKSLDYKSFKSIVESCENYQVTKGKSVKGAWNIGQQRSVLTPLCGFPSQA	540
KY417143.1	SASTSAFIDTIKSLDYKSFKAIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
KT444582.1	SASTSAFIDTIKSLDYKSFKAIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
KC881005.1	SASTSAFIDTIKSLDYKSFKAIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
KC881006.1	SASTSAFIDTIKSLDYKSFKAIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
KF367457.1	SASTSAFIDTIKSLDYKSFKAIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
KY417152.1	SASTSAFIDTIKSLDYKSFKAIVESCENYKVTKGKPVKGAWNIGQQRILTPLCGFPSQA	540
KY417146.1	SASTSAFIDTIKSLDYKSFKAIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
KY417151.1	SASTSAFIGTIKSLDYKSFKAIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540
KY417142.1	SASTSAFIGTIKSLDYKSFKAIVESCENYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA	540

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MW532698.1	ARVVRSIFSRTLETAQHSSVRVLQKAAITILDGISQYSLRLIDAMLFTSELTTDSIVVMAY	600
MT040336.1	ARVVRSIFSRTLETAQHSSVRVLQKAAITILDGISQYSLRLIDAMLFTSELTTDSIVVMAY	600
MT040335.1	ARVVRSIFSRTLETAQHSSVRVLQKAAITILDGISQYSLRLIDAMLFTSELTTDSIVVMAY	600
MT040334.1	ARVVRSIFSRTLETAQHSSVRVLQKAAITILDGISQYSLRLIDAMLFTSELTTDSIVVMAY	600
MT040333.1	ARVVRSIFSRTLETAQHSSVRVLQKAAITILDGISQYSLRLIDAMLFTSELTTDSIVVMAY	600
MN996532.2	ARVVRSIFSRTLETAQNSVRALQKAAITILDGISQYSLRLIDAMMFTSDLVTNNLVVMAY	600
MN988713.1	ARVVRSIFSRTLETAQNSVRVLQKAAITILDGISQYSLRLIDAMMFTSDLATNNLVVMAY	600
MT093571.1	ARVVRSIFSRTLETAQNSVRVLQKAAITILDGISQYSLRLIDAMMFTSDLATNNLVVMAY	600
MN996529.1	ARVVRSIFSRTLETAQNSVRVLQKAAITILDGISQYSLRLIDAMMFTSDLATNNLVVMAY	600
MT072688.1	ARVVRSIFSRTLETAQNSVRVLQKAAITILDGISQYSLRLIDAMMFTSDLATNNLVVMAY	600
NC_045512.2	ARVVRSIFSRTLETAQNSVRVLQKAAITILDGISQYSLRLIDAMMFTSDLATNNLVVMAY	600
MN994467.1	ARVVRSIFSRTLETAQNSVRVLQKAAITILDGISQYSLRLIDAMMFTSDLATNNLVVMAY	600
MG772933.1	AHVRSIFSRTLETAHHSVHVLQKAAITILDGISQYSLRLIDAMMFTSDLVTNNLVVMAY	600
MG772934.1	ARVVRSIFSRTLETAQSVRVLQKAAITILDGISQYSLRLIDAMMFTSDLVTNNLVVMAY	600
NC_014470.1	AGVRSIFSRTLATANHSDVHLHRAAMIFSDISDQANRVLDMVNTSDLVTSVVMAY	600
GQ153542.1	AGVIRSVFSRTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVVMAY	600
DQ022305	AGVIRSVFSRTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVVMAY	600
KF569996.1	ASVIRAFSRTLDAANHSIPDLQKAAVTILDGISEHSLRLVDAMTYTSDLLTNSVVMAY	600
KP886809.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVIMAY	600
AY278488.2	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVIMAY	600
AY485277.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVIMAY	600
AP006560.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVIMAY	600
AP006557.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVIMAY	600
AY274119	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVIMAY	600
AY572038.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVIMAY	600
AY572034.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGIFEQSLRLVDAMVYTSDLLTNSVIMAY	600
FJ588686.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVIMAY	600
KY417145.1	AGVIRSVFARTLDAANHSIPDLQRAAGTILDGISEQSLRLVDAMVYTSDLLTNSVIMAY	600
KY417144.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVIMAY	600
KY417147.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVIMAY	600
KY417148.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVIMAY	600
KY417143.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLITNSVIMAY	600
KT444582.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLITNSVIMAY	600
KC881005.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVIMAY	600
KC881006.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDVMVYTSDLLTNSVIMAY	600
KF367457.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDVMVYTSDLLTNSVIMAY	600
KY417152.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVIMAY	600
KY417146.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVIMAY	600
KY417151.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLITNSVIMAY	600
KY417142.1	AGVIRSVFARTLDAANHSIPDLQRAAVTTLDGISEQSLRLVDAMVYTSDLITNSVIMAY	600

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MW532698.1	VTGGVVQMTTQWLTNIFGTVYEKLPILDWLEEKFKEGIEFLKDGWEIVKFITTCSC	660
MT040336.1	VTGGVVQMTTQWLTNIFGTVYEKLPILDWLEEKFKEGIKFLKDGWEIVKFITTCSC	660
MT040335.1	VTGGVVQMTTQWLTNIFGTVYEKLPILDWLEEKFKEGIEFLKDGWEIVKFITTCSC	660
MT040334.1	VTGGVVQMTTQWLTNIFGTVYEKLPILDWLEEKFKEGIEFLKDGWEIVKFITTCSC	660
MT040333.1	VTGGVVQMTTQWLTNIFGTVYEKLPILDWLEEKFKEGIEFLKDGWEIVKFITTCSC	660
MN996532.2	ITGGVVQLTSQWLTNIFGTVYEKLPVLDWLEEKFKEGVEFLRDGWEIVKFISTCACE	660
MN988713.1	ITGGVVQLTSQWLTNIFGTVYEKLPVLDWLEEKFKEGVEFLRDGWEIVKFISTCACE	660
MT093571.1	ITGGVVQLTSQWLTNIFGTVYEKLPVLDWLEEKFKEGVEFLRDGWEIVKFISTCACE	660
MN996529.1	ITGGVVQLTSQWLTNIFGTVYEKLPVLDWLEEKFKEGVEFLRDGWEIVKFISTCACE	660
MT072688.1	ITGGVVQLTSQWLTNIFGTVYEKLPVLDWLEEKFKEGVEFLRDGWEIVKFISTCACE	660
NC_045512.2	ITGGVVQLTSQWLTNIFGTVYEKLPVLDWLEEKFKEGVEFLRDGWEIVKFISTCACE	660
MN994467.1	ITGGVVQLTSQWLTNIFGTVYEKLPVLDWLEEKFKEGVEFLRDGWEIVKFISTCACE	660
MG772933.1	ITGGVVQMTSQWLTNIFGTVYEKLPVLDWLEEKFKEGIEFLRDGWEIVKFISTCACE	660
MG772934.1	ITGGVVQMTSQWLTNIFGTVYEKLPVLDWLEEKFKEGVEFLRDGWEIVKFISTCACE	660
NC_014470.1	LTGGVLQQTSTWLSQLNNTSVDFKFSVLRWLEQKLGQGGIDFLRQAWGILKLLVTGAYV	660
GQ153542.1	VTGGVLQQTMTQWLSNMLGTAVDKLPVFTWVEAKLSAGVEFLRDWEILKFLITGVFD	660
DQ022305	VTGGVLQQTMTQWLSNMLGTAVDKLPVFTWVEAKLSAGVEFLRDWEILKFLITGVFD	660
KF569996.1	VTGGVLQQVSQWLSNVLGSAAEKLRPVFAWVESRLSDGIEFLKDAWEILKFLITGVFD	660
KP886809.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFAWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
AY278488.2	VTGGVLQQTSTWLSNLLGTTVEKLRPIFEWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
AY485277.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFEWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
AP006560.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFEWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
AP006557.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFEWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
AY274119	VTGGVLQQTSTWLSNLLGTTVEKLRPIFEWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
AY572038.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFEWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
AY572034.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFEWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
FJ588686.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFVWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
KY417145.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFAWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
KY417144.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFAWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
KY417147.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFAWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
KY417148.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFAWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
KY417143.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFAWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
KT444582.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFAWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
KC881005.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFAWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
KC881006.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFVWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
KF367457.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFVWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
KY417152.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFAWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
KY417146.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFAWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
KY417151.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFAWIEAKLSAGVEFLKDAWEILKFLITGVFD	660
KY417142.1	VTGGVLQQTSTWLSNLLGTTVEKLRPIFAWIEAKLSAGVEFLKDAWEILKFLITGVFD	660

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MW532698.1	GGQLVAFTTTELKDSVKKFFKLVNKFALCADSIVIGGAKLKALNLGETFVAHSRGLYKKC	720
MT040336.1	GGQLVAFTTTELKDSVKKFFKLVNKFALCADSIVIGGAKLKALNLGETFVAHSRGLYKKC	720
MT040335.1	GGQLVAFTTTELKDSVKKFFKLVNKFALCADSIVIGGAKLKALNLGETFVAHSRGLYKKC	720
MT040334.1	GGQLVAFTTTELKDSVKKFFKLVNKFALCADSIVIGGAKLKALNLGETFVAHSRGLYKKC	720
MT040333.1	GGQLVAFTTTELKDSVKKFFKLVNKFALCADSIVIGGAKLKALNLGETFVAHSRGLYKKC	720
MN996532.2	GGQIVTCAKEIKESVQTFFKLVNKFALCADSIIIGGAKLKALNLGETFVTHSKGLYRKC	720
MN988713.1	GGQIVTCAKEIKESVQTFFKLVNKFALCADSIIIGGAKLKALNLGETFVTHSKGLYRKC	720
MT093571.1	GGQIVTCAKEIKESVQTFFKLVNKFALCADSIIIGGAKLKALNLGETFVTHSKGLYRKC	720
MN996529.1	GGQIVTCAKEIKESVQTFFKLVNKFALCADSIIIGGAKLKALNLGETFVTHSKGLYRKC	720
MT072688.1	GGQIVTCAKEIKESVQTFFKLVNKFALCADSIIIGGAKLKALNLGETFVTHSKGLYRKC	720
NC_045512.2	GGQIVTCAKEIKESVQTFFKLVNKFALCADSIIIGGAKLKALNLGETFVTHSKGLYRKC	720
MN994467.1	GGQIVTCAKEIKESVQTFFKLVNKFALCADSIIIGGAKLKALNLGETFVTHSKGLYRKC	720
MG772933.1	GGQIVTCAKEIKESVQTFFKLVNKFALCADSIIIGGAKLKALNLGETFVTHSKGLYRKC	720
MG772934.1	GGQIVTRAKEVKESVQTFFKLVNKFALCADSIIIGGAKLKALNLGETFVTHSKGLYRKC	720
NC_014470.1	RGKIQVNTSLIECVTSFVDVNVKVFELCTDYITVAGARVRANFGEVLIQAQSRGLYRQC	720
GQ153542.1	KGQIQVATDNIKECVKIFLGVVNKALEMCLDQVTIAGTTLRALNLGEVFIAQSRGLYRQC	720
DQ022305	KGQIQVATDNIKECVKIFLGVVNKALEMCLDQVTIAGTKLRALNLGEVFIAQSRGLYRQC	720
KF569996.1	KGQIQVTSNDNIKECVKSFIDVINKALEMCIDVYTVAGTKLRSLNLGEIFIAQSKGLYRQC	720
KP886809.1	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGVKLRSLNLGEVFIAQSKGLYRQC	720
AY278488.2	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQC	720
AY485277.1	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQC	720
AP006560.1	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQC	720
AP006557.1	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQC	720
AY274119	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQC	720
AY572038.1	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGVKLRSLNLGEVFIAQSKGLYRQC	720
AY572034.1	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQC	720
FJ588686.1	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQC	720
KY417145.1	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGAKLRSLNLGEIFIAQSKGLYRQC	720
KY417144.1	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQC	720
KY417147.1	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQC	720
KY417148.1	KGQIQVSDNIKDCVKCFIDVNVKALEMCIDQVTIAGTKLRSLNLGEVFIAQSKGLYRQC	720
KY417143.1	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQC	720
KT444582.1	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQC	720
KC881005.1	KGQIQVALDNIKDCVKCFIDVNVKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQC	720
KC881006.1	KGQIQVASDNIKGCVKCFIDVNVKALEMCIDQVTIAGTKLRSLNLGEVFIAQSKGLYRQC	720
KF367457.1	KGQIQVASDNIKGCVKCFIDVNVKALEMCIDQVTIAGTKLRSLNLGEVFIAQSKGLYRQC	720
KY417152.1	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQC	720
KY417146.1	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQC	720
KY417151.1	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGVKLRSLNLGEVFIAQSKGLYRQC	720
KY417142.1	KGQIQVASDNIKDCVKCFIDVNVKALEMCIDQVTIAGVKLRSLNLGEVFIAQSKGLYRQC	720
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MW532698.1	VKSRGDSGLLMPLKAPKEVIFLDGETLPTEVLSEEVILKTGELQPLEEPTAQAVEVPLVG	780
MT040336.1	VKSRGDSGLLMPLKAPKEVIFLDGETLPTEVLSEEVILKTGELQPLEEPTAQAVEVPLVG	780
MT040335.1	VKSRGDSGLLMPLKAPKEVIFLDGETLPTEVLSEEVILKTGELQPLEEPTAQAVEVPLVG	780
MT040334.1	VKSRGDSGLLMPLKAPKEVIFLDGETLPTEVLSEEVILKTGELQPLEEPTAQAVEVPLVG	780
MT040333.1	VKSRGDSGLLMPLKAPKEVIFLDGETLPTEVLSEEVILKTGELQPLEEPTAQAVEVPLVG	780
MN996532.2	VKPKEETGLLMPLKAPKEIIFLEGETLPTEVLTEEVVLKTGDLQPLEQPTSEAVEAPLVG	780
MN988713.1	VKSREETGLLMPLKAPKEIIFLEGETLPTEVLTEEVVLKTGDLQPLEQPTSEAVEAPLVG	780
MT093571.1	VKSREETGLLMPLKAPKEIIFLEGETLPTEVLTEEVVLKTGDLQPLEQPTSEAVEAPLVG	780
MN996529.1	VKSREETGLLMPLKAPKEIIFLEGETLPTEVLTEEVVLKTGDLQPLEQPTSEAVEAPLVG	780
MT072688.1	VKSREETGLLMPLKAPKEIIFLEGETLPTEVLTEEVVLKTGDLQPLEQPTSEAVEAPLVG	780
NC_045512.2	VKSREETGLLMPLKAPKEIIFLEGETLPTEVLTEEVVLKTGDLQPLEQPTSEAVEAPLVG	780
MN994467.1	VKSREETGLLMPLKAPKEIIFLEGETLPTEVLTEEVVLKTGDLQPLEQPTSEAVEAPLVG	780
MG772933.1	VKSREETGLLLPLKAPKEIIFLEGETLPTEVLTEEVVLKTGVLQPLEQPTNEAVEAPLIG	780
MG772934.1	VKSREETGLLLPLKAPKEIIFLEGETLPTEVLTEEVVLKTGVLQPLEQPTNEAVEAPLIG	780
NC_014470.1	VRARDQLQLLMPLKSPKDVVFLDGDAYDTLLTSEEVTVKNGTLEALDLELSDVVTGVAEG	780
GQ153542.1	IRGKEQLQLLMPLKAPKEVTFLEGDAHDTVLTSEEVVLKSGELEVLETPIDSFISGAVVG	780
DQ022305	IRGKEQLQLLMPLKAPKEVTFLEGDAHDTVLTSEEVVLKSGELEALETPIDSFISGAVVG	780
KF569996.1	IRGKEQLQLLMPLKAPKDVTFLEGDVHDTVLTSEEVVLKNGELEALETPVDSFTNGAVVG	780
KP886809.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAVVG	780
AY278488.2	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAIVG	780
AY485277.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAIVG	780
AP006560.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAIVG	780
AP006557.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAIVG	780
AY274119	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAIVG	780
AY572038.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAIVG	780
AY572034.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAIVG	780
FJ588686.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFKNGAVVG	780
KY417145.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFINGAVVG	780
KY417144.1	IRGKEQLQLLMPLKAPKEITFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAVVG	780
KY417147.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALEAPVDSFTKGAVVG	780
KY417148.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALEAPVDSFTNGAVVG	780
KY417143.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALEAPVDSFTNGAVVG	780
KT444582.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALEAPVDSFTNGAVVG	780
KC881005.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAVVG	780
KC881006.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAVVG	780
KF367457.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAVVG	780
KY417152.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAVVG	780
KY417146.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAVVG	780
KY417151.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAVVG	780
KY417142.1	IRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAVVG	780
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MW532698.1	TPVCINGLMMLLEIKDTEKYCALAPNMMVTNNTFTLKGGA	839
MT040336.1	TPVCINGLMMLLEIKDTEKYCALAPNMMVTNNTFTLKGGA	839
MT040335.1	TPVCINGLMMLLEIKDTEKYCALAPNMMVTNNTFTLKGGA	839
MT040334.1	TPVCINGLMMLLEIKDTEKYCALAPNMMVTNNTFTLKGGA	839
MT040333.1	TPVCINGLMMLLEIKDTEKYCALAPNMMVTNNTFTLKGGA	839
MN996532.2	TPVCINGLMMLLEIKDTEKYCALAPNMMVTNNTFTLKGGA	839
MN988713.1	TPVCINGLMMLLEIKDTEKYCALAPNMMVTNNTFTLKGGA	839
MT093571.1	TPVCINGLMMLLEIKDTEKYCALAPNMMVTNNTFTLKGGA	839
MN996529.1	TPVCINGLMMLLEIKDTEKYCALAPNMMVTNNTFTLKGGA	839
MT072688.1	TPVCINGLMMLLEIKDTEKYCALAPNMMVTNNTFTLKGGA	839
NC_045512.2	TPVCINGLMMLLEIKDTEKYCALAPNMMVTNNTFTLKGGA	839
MN994467.1	TPVCINGLMMLLEIKDTEKYCALAPNMMVTNNTFTLKGGA	839
MG772933.1	TPVCINGLMMLLEIKDTEKYCALAPNMMVTNNTFTLKGGA	839
MG772934.1	TPVCINGLMMLLEIKDTEKYCALAPNMMVTNNTFTLKGGA	839
NC_014470.1	VPVCINGLMMLLEIKDTEKYCALSPSLLATNNVFTLKGGA	840
GQ153542.1	TPVCINGLMMLLELENKEQYCALSPGLLATNNVFTLKGGA	840
DQ022305	TPVCINGLMMLLELENKEQYCALSPGLLATNNVFTLKGGA	840
KF569996.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
KP886809.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
AY278488.2	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
AY485277.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
AP006560.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
AP006557.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
AY274119	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
AY572038.1	IPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
AY572034.1	IPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
FJ588686.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
KY417145.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
KY417144.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
KY417147.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
KY417148.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
KY417143.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
KT444582.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
KC881005.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
KC881006.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
KF367457.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
KY417152.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
KY417146.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
KY417151.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
KY417142.1	TPVCINGLMMLLEIKDKEQYCALSPGLLATNNVFTLKGGA	840
	:**:..*:*:*****:*.:.*.***.* *:*:* : *****:* *.****.*	

MW532698.1	NITFELDERVDKVLNEKCSNYTVELGTNIDELACVVAEAVIKTLQPVSELLTPLGIDLDE	899
MT040336.1	NITFELDERVDKVLNEKCSNYTVELGTNIDELACVVAEAVIKTLQPVSELLTPLGIDLDE	899
MT040335.1	NITFELDERVDKVLNEKCSNYTVELGTNIDELACVVAEAVIKTLQPVSELLTPLGIDLDE	899
MT040334.1	NITFELDERVDKVLNEKCSNYTVELGTNIDELACVVAEAVIKTLQPVSELLTPLGIDLDE	899
MT040333.1	NITFELDERVDKVLNEKCSNYTVELGTNIDELACVVAEAVIKTLQPVSELLTPLGIDLDE	899
MN996532.2	NITFELDERIDKVLNEKCSYTVELGTEVNEFACVVAEAVIKTLQPVSELLTPLGIDLDE	899
MN988713.1	NITFELDERIDKVLNEKCSAYTVELGTEVNEFACVVAEAVIKTLQPVSELLTPLGIDLDE	899
MT093571.1	NITFELDERIDKVLNEKCSAYTVELGTEVNEFACVVAEAVIKTLQPVSELLTPLGIDLDE	899
MN996529.1	NITFELDERIDKVLNEKCSAYTVELGTEVNEFACVVAEAVIKTLQPVSELLTPLGIDLDE	899
MT072688.1	NITFELDERIDKVLNEKCSAYTVELGTEVNEFACVVAEAVIKTLQPVSELLTPLGIDLDE	899
NC_045512.2	NITFELDERIDKVLNEKCSAYTVELGTEVNEFACVVAEAVIKTLQPVSELLTPLGIDLDE	899
MN994467.1	NITFELDERIDKVLNEKCSAYTVELGTEVNEFACVVAEAVIKTLQPVSELLTPLGIDLDE	899
MG772933.1	NITFELDERIDKVLNEKCSNYTVELGTEVNEFACVVAEAVIKTLQPVSELLTPLGIDLDE	899
MG772934.1	NITFELDERIDKVLNEKCSYTVELGTDVNEFACVVAEAVIKTLQPVSELLTPLGIDLDE	899
NC_014470.1	KITFELDERVDKVLNEKCSAYTVETGTTAEELACVVAESVVKTLQPISELLTPMGIDLDE	900
GQ153542.1	KITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTPMGIDLDE	900
DQ022305	KITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTPMGIDLDE	900
KF569996.1	KITFELDERVDKVLNEKCSVYTVESGTEVSEFACVVAESVVKTLQPVSDLLTNMGIDLDE	900
KP886809.1	KITFELDERVDKVLNEKCSVYTVESGTEVNEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
AY278488.2	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
AY485277.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
AP006560.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
AP006557.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
AY274119	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
AY572038.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
AY572034.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
FJ588686.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVIAETVVKTLQPVSDLLTNMGIDLDE	900
KY417145.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
KY417144.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
KY417147.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
KY417148.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
KY417143.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
KT444582.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
KC881005.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
KC881006.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
KF367457.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
KY417152.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
KY417146.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
KY417151.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900
KY417142.1	RITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDE	900

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MW532698.1	WGVATYYLFDESGEYTLSSRMYCSFYPPDEDEYEEYSEEE--QPEQPTQY EYGTESDYKG	957
MT040336.1	WGVATYYLFDESGEYTLSSRMYCSFYPPDEDEYEEYSEEE--QPEQPTQY EYGTESDYKG	957
MT040335.1	WGVATYYLFDESGEYTLSSRMYCSFYPPDEDEYEEYSEEE--QPEQPTQY EYGTESDYKG	957
MT040334.1	WGVATYYLFDESGEYTLSSRMYCSFYPPDEDEYEEYSEEE--QPEQPTQY EYGTESDYKG	957
MT040333.1	WGVATYYLFDESGEYTLSSRMYCSFYPPDEDEYEEYSEEE--QPEQPTQY EYGTESDYKG	957
MN996532.2	WGMATYYLFDESGEFKLASHMYCSFYPPDEDEEEGDCEEE--DFEPSTQY EYGTEDDYQG	957
MN988713.1	WSMATYYLFDESGEFKLASHMYCSFYPPDEDEEEGDCEEE--EFEPSTQY EYGTEDDYQG	957
MT093571.1	WSMATYYLFDESGEFKLASHMYCSFYPPDEDEEEGDCEEE--EFEPSTQY EYGTEDDYQG	957
MN996529.1	WSMATYYLFDESGEFKLASHMYCSFYPPDEDEEEGDCEEE--EFEPSTQY EYGTEDDYQG	957
MT072688.1	WSMATYYLFDESGEFKLASHMYCSFYPPDEDEEEGDCEEE--EFEPSTQY EYGTEDDYQG	957
NC_045512.2	WSMATYYLFDESGEFKLASHMYCSFYPPDEDEEEGDCEEE--EFEPSTQY EYGTEDDYQG	957
MN994467.1	WSMATYYLFDESGEFKLASHMYCSFYPPDEDEEEGDCEEE--EFEPSTQY EYGTEDDYQG	957
MG772933.1	WSMATYYLFDESGEFKLSSHMYCSFYPPED-EGEDDC EEG--QCEPSTQY EYGTEDDYQG	956
MG772934.1	WSMATYYLFDESGEFKLSSHMYCSFYPPED-EGEDDC EEG--QFEPSTQY EYGTEDDYQG	956
NC_014470.1	WSVAKFYLFDESGEAVLSSHMYCSFYPPDEEEEDL-----ESEDVEYGTEDDYTG	952
GQ153542.1	WSVATFYLFDDAGEEKLSSRMYCSFYPPDEEEEDCECEDEEEISEETCEHE YGTEDDYKG	960
DQ022305	WSVATFYLFDDAGEEKLSSRMYCSFYPPDEEEEDCECEDEE---ETCEHE YGTEDDYKG	956
KF569996.1	WSVATFYLFDDAGEENLSSRMYCSFYPPDEEEEDDAGCEEEIADETCEHE YGTEDDYQG	960
KP886809.1	WSVATFYLFDDAGEENVSSRMYCSFYPPDEEEEDDVECEE-EEIDETCEHE YGTEDDYQG	959
AY278488.2	WSVATFYLFDDAGEENFSSRMYCSFYPPDEEEEDDAEC-EEEEIDETCEHE YGTEDDYQG	959
AY485277.1	WSVATFYLFDDAGEENFSSRMYCSFYPPDEEEEDDAEC-EEEEIDETCEHE YGTEDDYQG	959
AP006560.1	WSVATFYLFDDAGEENFSSRMYCSFYPPDEEEEDDAEC-EEEEIDETCEHE YGTEDDYQG	959
AP006557.1	WSVATFYLFDDAGEENFSSRMYCSFYPPDEEEEDDAEC-EEEEIDETCEHE YGTEDDYQG	959
AY274119	WSVATFYLFDDAGEENFSSRMYCSFYPPDEEEEDDAEC-EEEEIDETCEHE YGTEDDYQG	959
AY572038.1	WSVATFYLFDDAGEENFSSRMYCSFYPPDEEEEDDAEC-EEEEIDETCEHE YGTEDDYQG	959
AY572034.1	WSVATFYLFDDAGEENFSSRMYCSFYPPDEEEEDDAEC-EEEEIDETCEHE YGTEDDYQG	959
FJ588686.1	WSVATFYLFDDAGEEKLSSRMYCSFYPPDDEEDCDEYEEEEEVSEESCAHE YGTEEDYQG	960
KY417145.1	WSVATFYLFDDAGEEKLSSRMYCSFYPPDDEEDCDEYEEEEEVPEESCAHE YGTEEDYRG	960
KY417144.1	WSVATFYLFDDAGEEKLSSRMYCSFYPPDDEEDCDEYEEEEEVLEESCAHE YGTEEDYQG	960
KY417147.1	WSVATFYLFDDAGEEKLSSRMYCSFYPPDDEEDCDEYEEEEEVLEESCAHE YGTEEDYQG	960
KY417148.1	WSVATFYLFDDAGEEKLSSRMYCSFYPPDDEEDCDEYEEEEEVPEESCAHE YGTEEDYQG	960
KY417143.1	WSVATFYLFDDAGEEKLSSRMYCSFYPPDDEEDCDEYEEEEEVPEESCAHE YGTEEDYQG	960
KT444582.1	WSVATFYLFDDAGEEKLSSRMYCSFYPPDDEEDCDEYEEEEEVPEESCAHE YGTEEDYQG	960
KC881005.1	WSVATFYLFDDAGEEKLSSRMYCSFYPPDDEEDCDECEEEEVLEESCAHE YGTEEDYQG	960
KC881006.1	WSVATFYLFDDAGEEKLSSRMYCSFYPPDDEEDCDEYEEEEEVLEESCAHE YGTEEDYQG	960
KF367457.1	WSVATFYLFDDAGEEKLSSRMYCSFYPPDDEEDCDEYEEEEEVLEESCAHE YGTEEDYQG	960
KY417152.1	WSVATFYLFDDAGEEKLSSRMYCSFYPPDDEEDCDEYEEEEEVPEESCAHE YGTEEDYRG	960
KY417146.1	WSVATFYLFDDAGEEKLSSRMYCSFYPPDDEEDCDEYEEEEEVPEESCAHE YGTEEDYQG	960
KY417151.1	WSVATFYLFDDAGEEKLSSRMYCSFYPPDDEEDCDEYEEEEEVPEESCAHE YGTEEDYQG	960
KY417142.1	WSVATFYLFDDAGEEKLSSRMYCSFYPPDDEEDCDEYEEEEEVPEESCAHE YGTEEDYQG	960

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MW532698.1	LPLEFGASSVQ---QEEQEEDWLETEAEVVEQ---EVTPTQEELPITEIVPAVEQT-	1010
MT040336.1	LPLEFGASSVQ---QEEQEEDWLETEAEVVEQ---EVTPTQEELPITEIVPAVEQT-	1010
MT040335.1	LPLEFGASSVQ---QEEQEEDWLETEAEVVEQ---EVTPTQEELPITEIVPAVEQT-	1010
MT040334.1	LPLEFGASSVQ---QEEQEEDWLETEAEVVEQ---EVTPTQEELPITEIVPAVEQT-	1010
MT040333.1	LPLEFGASSVQ---QEEQEEDWLETEAEVVEQ---EVTPTQEELPITEIVPAVEQT-	1010
MN996532.2	KSLEFGATSVTPQ-PEEELEEDWLDDDSQQTVVQEDDSEVNQTTITQSI AEVQPQLEMEL	1016
MN988713.1	KPLEFGATSAALQ-XEEQEEDWLDDDSQQTVGQQDGSEDNQTTTIQTIVEVQPQLEMEL	1016
MT093571.1	KPLEFGATSAALQ-PEEEQEEDWLDDDSQQTVGQQDGSEDNQTTTIQTIVEVQPQLEMEL	1016
MN996529.1	KPLEFGATSAALQ-PEEEQEEDWLDDDSQQTVGQQDGSEDNQTTTIQTIVEVQPQLEMEL	1016
MT072688.1	KPLEFGATSAALQ-PEEEQEEDWLDDDSQQTVGQQDGSEDNQTTTIQTIVEVQPQLEMEL	1016
NC_045512.2	KPLEFGATSAALQ-PEEEQEEDWLDDDSQQTVGQQDGSEDNQTTTIQTIVEVQPQLEMEL	1016
MN994467.1	KPLEFGATSAALQ-PEEEQEEDWLDDDSQQTVGQQDGSEDNQTTTIQTIVEVQPQLEMEL	1016
MG772933.1	KPLEFGATSFSSSSQEEQEEDWLESQDQGQET--AV----EENKIPSVVEVPPVLQVES	1010
MG772934.1	KPLEFGATSFSSSSQEEQEEDWLESQDQGQET--AV-----	992
NC_014470.1	APLEFGASSTVEQDEVHDEEDWLAPQE-----	980
GQ153542.1	LPLEFGASTETPHVEEEEEEDWLDDAI---EAESE-----	993
DQ022305	LPLEFGASTETPHVEEEEEEDWLDDAI---EAEPE-----	989
KF569996.1	LPLEFGASTEAVQVEE-EEEEEDWLDDTNEQSEVEPQ-----	995
KP886809.1	LPLEFGASAETVQVEE-EEEEEDWLDDTTEQSEIEHE-----	994
AY278488.2	LPLEFGASAETVRVEE-EEEEEDWLDDTTEQSEIEPE-----	994
AY485277.1	LPLEFGASAETVRVEE-EEEEEDWLDDTTEQSEIEPE-----	994
AP006560.1	LPLEFGASAETVRVEE-EEEEEDWLDDTTEQSEIEPE-----	994
AP006557.1	LPLEFGASAETVRVEE-EEEEEDWLDDTTEQSEIEPE-----	994
AY274119	LPLEFGASAETVRVEE-EEEEEDWLDDTTEQSEIEPE-----	994
AY572038.1	LPLEFGASAETVRVEE-EEEEEDWLDDTTEQSEIEPE-----	994
AY572034.1	LPLEFGASAETVRVEE-EEEEEDWLDDTTEQSEIEPE-----	994
FJ588686.1	LPLEFGASTE-MQVEE-EEEEEDWLDDATELSEHELE-----	994
KY417145.1	LPLEFGASTE-MQVEE-EEEEEDWLGDATELSEHELE-----	994
KY417144.1	LPLEFGASTE-MQVEE-EEEEEDWLGDATELSEHEPE-----	994
KY417147.1	LPLEFGASTE-MQVEE-EEEEEDWLGDATELSEHEPE-----	994
KY417148.1	LPLEFGASTE-MQVEE-EEEEEDWLGDATELSEHEPE-----	994
KY417143.1	LPLEFGASTE-MQVEE-EEEEEDWLGDATELSEHEPE-----	994
KT444582.1	LLLEFGASTE-MQVEE-EEEEEDWLGDATELSEHEPE-----	994
KC881005.1	LPLEFGASTE-MQVEE-EEEEEDWLGDATELSEHELE-----	994
KC881006.1	LSLEFGASTE-MQVEE-EEEEEDWLGDATELSEHEPE-----	994
KF367457.1	LSLEFGASTE-MQVEE-EEEEEDWLGDATELSEHEPE-----	994
KY417152.1	LPLEFGASTE-MQVEE-EEEEEDWLGDATDLSEHEPE-----	994
KY417146.1	LPLEFGASTE-MQVEE-EEEEEDWLGDATELSEHEPE-----	994
KY417151.1	LPLEFGASTE-MQVEE-EEEEEDWLGDATELSEHEPE-----	994
KY417142.1	LPLEFGASTE-MQVEE-EEEEEDWLGDATELSEHEPE-----	994
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MW532698.1	NKATNNAMQIESDDYIARNGPLNVGGSCLLNGHNLAKNCLHVVGPNLNKGEDIQLLKVAY	1127
MT040336.1	NKATNNAMQIESDDYIARNGPLNVGGSCLLNGHNLAKNCLHVVGPNLNKGEDIQLLKVAY	1127
MT040335.1	NKATNNAMQIESDDYIARNGPLNVGGSCLLNGHNLAKNCLHVVGPNLNKGEDIQLLKVAY	1127
MT040334.1	NKATNNAMQIESDDYIARNGPLNVGGSCLLNGHNLAKNCLHVVGPNLNKGEDIQLLKVAY	1127
MT040333.1	NKATNNAMQIESDDYIARNGPLNVGGSCLLNGHNLAKNCLHVVGPNLNKGEDIQLLKVAY	1127
MN996532.2	NKATNNAMQVESDDHYIATNGPLKVGGGCVLSGHNLAHNCLHVVGPNVNRGEDIQLLKSAAY	1134
MN988713.1	NKATNNAMQVESDDYIATNGPLKVGGGCVLSGHNLAHNCLHVVGPNVNRGEDIQLLKSAAY	1135
MT093571.1	NKATNNAMQVESDDYIATNGPLKVGGGCVLSGHNLAHNCLHVVGPNVNRGEDIQLLKSAAY	1135
MN996529.1	NKATNNAMQVESDDYIATNGPLKVGGGCVLSGHNLAHNCLHVVGPNVNRGEDIQLLKSAAY	1135
MT072688.1	NKATNNAMQVESDDYIATNGPLKVGGGCVLSGHNLAHNCLHVVGPNVNRGEDIQLLKSAAY	1135
NC_045512.2	NKATNNAMQVESDDYIATNGPLKVGGGCVLSGHNLAHNCLHVVGPNVNRGEDIQLLKSAAY	1135
MN994467.1	NKATNNAMQVESDDYIATNGPLKVGGGCVLSGHNLAHNCLHVVGPNVNRGEDIQLLKSAAY	1135
MG772933.1	NKATNNAMQVESDKYITNGPLIVGGGCVLSGHNLAHNCLHVVGPNVNRGEDIQLLKNAAY	1130
MG772934.1	NKATNNAMQVNLNLSNITNGPLIVGGGCVLSGHNLAHNCLHVVGPNVNRGEDIQLLKNAAY	1108
NC_014470.1	DKATGGSMQKESDDYIATNGPLRVGGGCVLSGHNLAHNCLHVVGPNKNAGEDIQLLKDAAY	1096
GQ153542.1	NKATNGAMQNESDEYIRQNGPLTVGGSCLLSGHNLAHNCLHVVGPNLNAGEDVQLLKRAY	1112
DQ022305	NKATNGAMQNESDEYIRQNGPLTVGGSCLLSGHNLAHNCLHVVGPNLNAGEDVQLLKRAY	1108
KF569996.1	NKATNGAMQKESDDYIKQNGPLRVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1114
KP886809.1	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
AY278488.2	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
AY485277.1	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
AP006560.1	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
AP006557.1	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
AY274119	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
AY572038.1	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
AY572034.1	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
FJ588686.1	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
KY417145.1	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
KY417144.1	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
KY417147.1	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
KY417148.1	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
KY417143.1	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
KT444582.1	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
KC881005.1	NKATNGAMQKESDDYIKLNGPLAVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
KC881006.1	NKATNGAMQKESDDYIKLNGPLVVGGSCLLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
KF367457.1	NKATNGAMQKESDDYIKLNGPLVVGGSCLLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
KY417152.1	NKATNGAMQKESDDYIKLNGPLVVGGSCLLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
KY417146.1	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
KY417151.1	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113
KY417142.1	NKATNGAMQKESDDYIKLNGPLTVGGGCVLSGHNLAHNCLHVVGPNLNAGEDIQLLKAAAY	1113

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MW532698.1	ENFNHHEKLLAPLLSAGIFGAQPIQSLKVCJETVRTQVFLAVFDKDLVEELVASFLEMKS	1187
MT040336.1	ENFNHHEKLLAPLLSAGIFGAQPIQSLKVCJETVRTQVFLAVFDKDLVEELVASFLEMKS	1187
MT040335.1	ENFNHHEKLLAPLLSAGIFGAQPIQSLKVCJETVRTQVFLAVFDKDLVEELVASFLEMKS	1187
MT040334.1	ENFNHHEKLLAPLLSAGIFGAQPIQSLKVCJETVRTQVFLAVFDKDLVEELVASFLEMKS	1187
MT040333.1	ENFNHHEKLLAPLLSAGIFGAQPIQSLKVCJETVRTQVFLAVFDKDLVEELVASFLEMKS	1187
MN996532.2	ENFNQHDVLLAPLLSAGIFGADPVHSLRVCVDTVRTNVYLAVFDKNLYDKLVSSFLEMKS	1194
MN988713.1	ENFNQHEVLLAPLLSAGIFGADPIHSLRVCVDTVRTNVYLAVFDKNLYDKLVSSFLEMKS	1195
MT093571.1	ENFNQHEVLLAPLLSAGIFGADPIHSLRVCVDTVRTNVYLAVFDKNLYDKLVSSFLEMKS	1195
MN996529.1	ENFNQHEVLLAPLLSAGIFGADPIHSLRVCVDTVRTNVYLAVFDKNLYDKLVSSFLEMKS	1195
MT072688.1	ENFNQHEVLLAPLLSAGIFGADPIHSLRVCVDTVRTNVYLAVFDKNLYDKLVSSFLEMKS	1195
NC_045512.2	ENFNQHEVLLAPLLSAGIFGADPIHSLRVCVDTVRTNVYLAVFDKNLYDKLVSSFLEMKS	1195
MN994467.1	ENFNQHEVLLAPLLSAGIFGADPIHSLRVCVDTVRTNVYLAVFDKNLYDKLVSSFLEMKS	1195
MG772933.1	ENFNQHEILLAPLLSAGIFGADPVHSLRVCVETVHTNVYLVVFDKNLYDKLVSSFLEMKS	1190
MG772934.1	ENFNQHEILLAPLLSAGIFGADPVHSLRVCVETVHTNVYLVVFDKNLYDKLVSSFLEMKS	1168
NC_014470.1	ENFNAYEVVLSPLLSAGIFGVSPIQSLETCKRVVVRTVYIVVNDSVVFDQLLAKTPGKTN	1156
GQ153542.1	ENFNSQDVLLAPLLSAGIFGAKPLQSLKMCVETVRAQVYLAVNDKSLYDQIILDYLDLSLK	1172
DQ022305	ENFNSQDVLLAPLLSAGIFGAKPLQSLKMCVEIVRTQVYLAVNDKSLYDQIIVLDYLDLSLK	1168
KF569996.1	ENFNSQDILLAPLLSAGIFGAKPLDSLKVCVQTVTRTHVYIAVNDQKLYDQVVMYLDLSLK	1174
KP886809.1	ENFNSQDTLLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDLSLK	1173
AY278488.2	ENFNSQDILLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDNLK	1173
AY485277.1	ENFNSQDILLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDNLK	1173
AP006560.1	ENFNSQDILLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDNLK	1173
AP006557.1	ENFNSQDILLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDNLK	1173
AY274119	ENFNSQDILLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDNLK	1173
AY572038.1	ENFNSQDTLLAPLLSAGIFGAKPLQSLQVCVQTVCTQVYIAVNDKALYEQVVMYLDNLK	1173
AY572034.1	ENFNSQDTLLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDNLK	1173
FJ588686.1	ENFNSQDTLLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDLSLK	1173
KY417145.1	ENFNSQDTLLAPLLSAGIFGAKPLHSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDLSLK	1173
KY417144.1	ENFNSQDTLLAPLLSAGIFGAKPLHSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDLSLK	1173
KY417147.1	ENFNSQDTLLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDLSLK	1173
KY417148.1	ENFNSQDTLLAPLLSAGIFGAKPLHSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDLSLK	1173
KY417143.1	ENFNSQDTLLAPLLSAGIFGAKPLHSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDLSLK	1173
KT444582.1	ENFNSQDTLLAPLLSAGIFGAKPLHSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDLSLK	1173
KC881005.1	ENFNSQDTLLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDLSLK	1173
KC881006.1	ENFNSQDTLLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDLSLK	1173
KF367457.1	ENFNSQDTLLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDLSLK	1173
KY417152.1	ENFNSQDTLLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDLSLK	1173
KY417146.1	ENFNSQDTLLAPLLSAGIFGAKPLHSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDLSLK	1173
KY417151.1	ENFNSQDTLLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDLSLK	1173
KY417142.1	ENFNSQDTLLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMYLDLSLK	1173

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MW532698.1	ETKVQDHFDDVV-----ETK--VEITPEESASSEKPTKEEPPKKVKPCIEEVTTLLEETK	1238
MT040336.1	ETKVQDHFDDVV-----ETK--VEITPEESASSEKPTKEEPPKKVKPCIEEVTTLLEETK	1238
MT040335.1	ETKVQDHFDDVV-----ETK--VEITPEESASSEKPTKEEPPKKVKPCIEEVTTLLEETK	1238
MT040334.1	ETKVQDHFDDVV-----ETK--VEITPEESASSEKPTKEEPPKKVKPCIEEVTTLLEETK	1238
MT040333.1	ETKVQDHFDDVV-----ETK--VEITPEESASSEKPTKEEPPKKVKPCIEEVTTLLEETK	1238
MN996532.2	EKQVEQKTAEI-----PKEEVKSSITESKLSVEQRQQV-DKKIKACVEEVTTLLEETK	1246
MN988713.1	EKQVEQKIAEI-----PKEEVKPFITESKPSVEQRKQD-DKKIKACVEEVTTLLEETK	1247
MT093571.1	EKQVEQKIAEI-----PKEEVKPFITESKPSVEQRKQD-DKKIKACVEEVTTLLEETK	1247
MN996529.1	EKQVEQKIAEI-----PKEEVKPFITESKPSVEQRKQD-DKKIKACVEEVTTLLEETK	1247
MT072688.1	EKQVEQKIAEI-----PKEEVKPFITESKPSVEQRKQD-DKKIKACVEEVTTLLEETK	1247
NC_045512.2	EKQVEQKIAEI-----PKEEVKPFITESKPSVEQRKQD-DKKIKACVEEVTTLLEETK	1247
MN994467.1	EKQVEQKIAEI-----PKEEVKPFITESKPSVEQRKQD-DKKIKACVEEVTTLLEETK	1247
MG772933.1	EKQVEQKVAEN-----PKEEVKPFITENKPSVEQRQAEEKKIKASIEEVTTLLEETK	1243
MG772934.1	GKQVEQKVAEN-----PKEEVKPFITENKPSVEQRQAEEKKIKASIEEVTTLLEETK	1221
NC_014470.1	ERPVVESSEICEEV-NQKPVVEFSE-TKELHEETNQLKSSEEPVKTRIEELNTTVDEAK	1214
GQ153542.1	--PKVESPNKEEPPKLEEPKA-----VQPVVEKPVVDVKPKIKACIDEVTTLLEETK	1221
DQ022305	--PKVESPNKEEPPKLEEPKA-----VQPVVEKPVVDVKPKIKACIDEVTTLLEETK	1217
KF569996.1	--PTVETPKEEQ-PKIEDSNVK-----EETPTQKPVVDVKPKIKACIEEVTTLLEETK	1223
KP886809.1	--PRVEAPKQEEPPKTERPKVE-----EKSVVQKPVVDVKPKIKACINEVTTLLEETK	1223
AY278488.2	--PRVEAPKQEEPPNTEDSKTE-----EKSVVQKPVVDVKPKIKACIDEVTTLLEETK	1223
AY485277.1	--PRVEAPKQEEPPNTEDSKTE-----EKSVVQKPVVDVKPKIKACIDEVTTLLEETK	1223
AP006560.1	--PRVEAPKQEEPPNTEDSKTE-----EKSVVQKPVVDVKPKIKACIDEVTTLLEETK	1223
AP006557.1	--PRVEAPKQEEPPNTEDSKTE-----EKSVVQKPVVDVKPKIKACIDEVTTLLEETK	1223
AY274119	--PRVEAPKQEEPPNTEDSKTE-----EKSVVQKPVVDVKPKIKACIDEVTTLLEETK	1223
AY572038.1	--PRVEAPKQEEPPNTEDSKTE-----EKSVVQKPVVDVKPKIKACIDEVTTLLEETK	1223
AY572034.1	--PRVEAPKQEEPPNTEDSKTE-----EKSVVQKPVVDVKPKIKACIDEVTTLLEETK	1223
FJ588686.1	--PRVEAPKQEEPPKTEHPKIE-----EKSVVQKPVVDVKPKIKACIDEVTTLLEETK	1223
KY417145.1	--PRVEAPKQEEPPKTEDPKIE-----EKSVVQKPVVDVKPKIKAFIDEVTTLLEETK	1223
KY417144.1	--PRVEAPKQEEPPKTEDPKIE-----EKSVVQKPVVDVKPKIKACIDEVTTLLEETK	1223
KY417147.1	--PRVEAPKQEEPPRTEDPKIE-----EKSVVQKPIDVKPKIKACIDEVTTLLEETK	1223
KY417148.1	--PRVEAPKQEEPPKTEDPKIE-----EKSVVQKPVVDVKPKIKACIDEVTTLLEETK	1223
KY417143.1	--PRVEAPKQEEPPKTEDPKIE-----EKSVVQKPVVDVKPKIKACIDEVTTLLEETK	1223
KT444582.1	--PRVEAPKQEEPPKTEDPKIE-----EKSVVQKPVVDVKPKIKACIDEVTTLLEETK	1223
KC881005.1	--PRVEAPKQEEPPRTEDPKIE-----EKSVVQKPIDVKPKIKACIDEVTTLLEETK	1223
KC881006.1	--PRVEAPKQEEPPRTEDPKIE-----EKSVVQKPIDVKPKIKACIDEVTTLLEETK	1223
KF367457.1	--PRVEAPKQEEPPRTEDPKIE-----EKSVVQKPIDVKPKIKACIDEVTTLLEETK	1223
KY417152.1	--PRVEAPKQEEPPRTEDPKIE-----EKSVVQKPIDVKPKIKACIDEVTTLLEETK	1223
KY417146.1	--PRVEAPKQEEPPKTEDPKIE-----EKSVVQKPVVDVKPKIKACIDEVTTLLEETK	1223
KY417151.1	--PRVEAPKQEEPPKTEDPEIE-----EKFVVQKPVVDVKPKIKACIDEVTTLLEETK	1223
KY417142.1	--PRVEAPKQEEPPKTEDPEIE-----EKFVVQKPVVDVKPKIKACIDEVTTLLEETK	1223
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MW532698.1	FLTENLLLYADINGNLYPDSTSLVENVDVTFLLKKDAPYIVGDIITSGNLTTVVIPTKKAG	1298
MT040336.1	FLTENLLLYADINGNLYPDSTSLVENVDVTFLLKKDAPYIVGDIITSGNLTTVVIPTKKAG	1298
MT040335.1	FLTENLLLYADINGNLYPDSTSLVENVDVTFLLKKDAPYIVGDIITSGNLTTVVIPTKKAG	1298
MT040334.1	FLTENLLLYADINGNLYPDSTSLVENVDVTFLLKKDAPYIVGDIITSGNLTTVVIPTKKAG	1298
MT040333.1	FLTENLLLYADINGNLYPDSTSLVENVDVTFLLKKDAPYIVGDIITSGNLTTVVIPTKKAG	1298
MN996532.2	FLTENLLLYIDINGNLHPDSATLVNDIDITFLLKKDAPYIVGDVVQEGVLTAVVIPTKKAG	1306
MN988713.1	FLTENLLLYIDINGNLHPDSATLVSDIDITFLLKKDAPYIVGDVVQEGVLTAVVIPTKKAG	1307
MT093571.1	FLTENLLLYIDINGNLHPDSATLVSDIDITFLLKKDAPYIVGDVVQEGVLTAVVIPTKKAG	1307
MN996529.1	FLTENLLLYIDINGNLHPDSATLVSDIDITFLLKKDAPYIVGDVVQEGVLTAVVIPTKKAG	1307
MT072688.1	FLTENLLLYIDINGNLHPDSATLVSDIDITFLLKKDAPYIVGDVVQEGVLTAVVIPTKKAG	1307
NC_045512.2	FLTENLLLYIDINGNLHPDSATLVSDIDITFLLKKDAPYIVGDVVQEGVLTAVVIPTKKAG	1307
MN994467.1	FLTENLLLYIDINGNLHPDSATLVSDIDITFLLKKDAPYIVGDVVQEGVLTAVVIPTKKAG	1307
MG772933.1	FLTENLLLYIDINGNLHPDSATLVKIDITTFLLKKDVPYIVGDVIKEGALTAVVIPTKKAG	1303
MG772934.1	FLTENLLLYIDINGNLHPDSATLVKIDITTFLLKKDVPYIVGDVIKEGALTAVVIPTKKAG	1281
NC_014470.1	FLTENLLLYADVNGNLSKVLII-GNDGASFKKGAPYIVGDIITSEGLTCVVIPTKKAG	1273
GQ153542.1	FLTNKLLLFADINGKLYQDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1281
DQ022305	FLTNKLLLFADINGKLYQDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1277
KF569996.1	FLTNKLLLFADINGKLYQDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
KP886809.1	FLTNKLLLFADINGKLYRDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
AY278488.2	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
AY485277.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
AP006560.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
AP006557.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
AY274119	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
AY572038.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
AY572034.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
FJ588686.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
KY417145.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
KY417144.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
KY417147.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
KY417148.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
KY417143.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
KT444582.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
KC881005.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
KC881006.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
KF367457.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
KY417152.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
KY417146.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
KY417151.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283
KY417142.1	FLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKAG	1283

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MW532698.1	GTTEMLAKALRKVPTDHYITTPGQGCVGYTIEEAKTALKKSKSAYYVLPSSIIPNKKEEI	1358
MT040336.1	GTTEMLAKALRKVPTDHYITTPGQGCVGYTIEEAKTALKKSKSAYYVLPSSIIPNKKEEI	1358
MT040335.1	GTTEMLAKALRKVPTDHYITTPGQGCVGYTIEEAKTALKKSKSAYYVLPSSIIPNKKEEI	1358
MT040334.1	GTTEMLAKALRKVPTDHYITTPGQGCVGYTIEEAKTALKKSKSAYYVLPSSIIPNKKEEI	1358
MT040333.1	GTTEMLAKALRKVPTDHYITTPGQGCVGYTIEEAKTALKKSKSAYYVLPSSIIPNKKEEI	1358
MN996532.2	GTTEMLAKALRKVPTDNYITTPGQGLNGYTVEEAKTVLKKCKSAFYILPSIISNEKQEI	1366
MN988713.1	GTTEMLAKALRKVPTDNYITTPGQGLNGYTVEEAKTVLKKCKSAFYILPSIISNEKQEI	1367
MT093571.1	GTTEMLAKALRKVPTDNYITTPGQGLNGYTVEEAKTVLKKCKSAFYILPSIISNEKQEI	1367
MN996529.1	GTTEMLAKALRKVPTDNYITTPGQGLNGYTVEEAKTVLKKCKSAFYILPSIISNEKQEI	1367
MT072688.1	GTTEMLAKALRKVPTDNYITTPGQGLNGYTVEEAKTVLKKCKSAFYILPSIISNEKQEI	1367
NC_045512.2	GTTEMLAKALRKVPTDNYITTPGQGLNGYTVEEAKTVLKKCKSAFYILPSIISNEKQEI	1367
MN994467.1	GTTEMLAKALRKVPTDNYITTPGQGLNGYTVEEAKTVLKKCKSAFYILPSIISNEKQEI	1367
MG772933.1	GTTEMLAKALRKVPTDNYITTPGQGLNGYTVEEAKTVLKKCKSAFYILPSIISNAKQEI	1363
MG772934.1	GTTEMLAKALRKVPTDNHITTPGQGLNGYTVEEAKTVLKKCKSVFYILPSIILPNEKQEI	1341
NC_014470.1	GTTHMLRALKKNVPSDYLITTPGQGVSGYTLDEAKAALKKSKSVFYILPSANVNAKEEV	1333
GQ153542.1	GTDMALARALKKVPVAEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSETPNEKEEV	1341
DQ022305	GTTEMLARALKKEVPVAEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSETPNEKEEV	1337
KF569996.1	GTTEMLARALKKVPIDEYITTPGQGCAGYTLEARTALKKCKSALYVLPSETPNAKEEI	1343
KP886809.1	GTTEMLSRALKKVPVGEYITTPGQGCAGYTLEEAKTILKKCKSEFYVLPSETPNAKEEV	1343
AY278488.2	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSEAPNAKEEI	1343
AY485277.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSEAPNAKEEI	1343
AP006560.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSEAPNAKEEI	1343
AP006557.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSEAPNAKEEI	1343
AY274119	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSEAPNAKEEI	1343
AY572038.1	GTTEMLSRALKKVPVAEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSEAPNAKEEI	1343
AY572034.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSEAPNAKEEI	1343
FJ588686.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSETPNAKEEI	1343
KY417145.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSALYVLPSETPNAKEEI	1343
KY417144.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSALYVLPSETPNAKEEI	1343
KY417147.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSETPNAKEEI	1343
KY417148.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSETPNAKEEI	1343
KY417143.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSETPNAKEEI	1343
KT444582.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSETPNAKEEI	1343
KC881005.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSETPNAKEEI	1343
KC881006.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSETPNAKEEI	1343
KF367457.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSETPNAKEEI	1343
KY417152.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSETPNAKEEI	1343
KY417146.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSETPNAKEEI	1343
KY417151.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSETPNAKEEI	1343
KY417142.1	GTTEMLSRALKKVPVDEYITTPGQGCAGYTLEEAKTALKKCKSAFYVLPSETPNAKEEI	1343

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MW532698.1	LGTVSWNLREMLTHAEETRKLMPICMDTKAIMSTVQRKYKGIKIQEGVVDYGVRFYFYTS	1418
MT040336.1	LGTVSWNLREMLTHAEETRKLMPICMDTKAIMSTVQRKYKGIKIQEGVVDYGVRFYFYTS	1418
MT040335.1	LGTVSWNLREMLTHAEETRKLMPICMDTKAIMSTVQRKYKGIKIQEGVVDYGVRFYFYTS	1418
MT040334.1	LGTVSWNLREMLTHAEETRKLMPICMDTKAIMSTVQRKYKGIKIQEGVVDYGVRFYFYTS	1418
MT040333.1	LGTVSWNLREMLTHAEETRKLMPICMDTKAIMSTVQRKYKGIKIQEGVVDYGVRFYFYTS	1418
MN996532.2	LGTVSWNLREMLAHAEETRKLMPVCMETKAIVSTIQRKYKGIKIQEGVVDYGARFYFYTS	1426
MN988713.1	LGTVSWNLREMLAHAEETRKLMPVPCVETKAIVSTIQRKYKGIKIQEGVVDYGARFYFYTS	1427
MT093571.1	LGTVSWNLREMLAHAEETRKLMPVPCVETKAIVSTIQRKYKGIKIQEGVVDYGARFYFYTS	1427
MN996529.1	LGTVSWNLREMLAHAEETRKLMPVPCVETKAIVSTIQRKYKGIKIQEGVVDYGARFYFYTS	1427
MT072688.1	LGTVSWNLREMLAHAEETRKLMPVPCVETKAIVSTIQRKYKGIKIQEGVVDYGARFYFYTS	1427
NC_045512.2	LGTVSWNLREMLAHAEETRKLMPVPCVETKAIVSTIQRKYKGIKIQEGVVDYGARFYFYTS	1427
MN994467.1	LGTVSWNLREMLAHAEETRKLMPVPCVETKAIVSTIQRKYKGIKIQEGVVDYGARFYFYTS	1427
MG772933.1	LGTVSWNLREMLAHAEETRKLMPVCMETKAIVSTIQRKYKGIKIQEGVVDYGARFYFYTS	1423
MG772934.1	LGTVSWNLREMLAHAEETRKLMPVCMETKAIVSTIQRKYKGIKIQEGVVDYGARFYFYTS	1401
NC_014470.1	LGTVAWNLREMLAHAEETRKLMPVCMVDRAIISTIQRKYKGIKIQEGLVDYKVRFFYFS	1393
GQ153542.1	LGTVSWNLREMLAHAEETRKLMPICLDVRAIMATIQRKYKGIKVQEGIVDYGVRFFFYTS	1401
DQ022305	LGTVSWNLREMLAHAEETRKLMPICLDVRAIMATIQRKYKGIKVQEGIVDYGVRFFFYTS	1397
KF569996.1	LGTVSWNLREMLAHAEETRKLMPVCMVDRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
KP886809.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
AY278488.2	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
AY485277.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
AP006560.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
AP006557.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
AY274119	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
AY572038.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
AY572034.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
FJ588686.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
KY417145.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
KY417144.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
KY417147.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKVQEGIVDYGVRFFFYTS	1403
KY417148.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
KY417143.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
KT444582.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
KC881005.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKVQEGIVDYGVRFFFYTS	1403
KC881006.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKVQEGIVDYGVRFFFYTS	1403
KF367457.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKVQEGIVDYGVRFFFYTS	1403
KY417152.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKVQEGIVDYGVRFFFYTS	1403
KY417146.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
KY417151.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403
KY417142.1	LGTVSWNLREMLAHAEETRKLMPICMDVRAIMATIQRKYKGIKIQEGIVDYGVRFFFYTS	1403

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MW532698.1	KTPVATLIATLNSLGETLVTMPLGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1478
MT040336.1	KTPVATLIATLNSLGETLVTMPLGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1478
MT040335.1	KTPVATLIATLNSLGETLVTMPLGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1478
MT040334.1	KTPVATLIATLNSLGETLVTMPLGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1478
MT040333.1	KTPVATLIATLNSLGETLVTMPLGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1478
MN996532.2	KTTVASLINTLNDLNETLVTMPLGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1486
MN988713.1	KTTVASLINTLNDLNETLVTMPLGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1487
MT093571.1	KTTVASLINTLNDLNETLVTMPLGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1487
MN996529.1	KTTVASLINTLNDLNETLVTMPLGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1487
MT072688.1	KTTVASLINTLNDLNETLVTMPLGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1487
NC_045512.2	KTTVASLINTLNDLNETLVTMPLGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1487
MN994467.1	KTTVASLINTLNDLNETLVTMPLGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1487
MG772933.1	KTTVASLINTLNNLNETLVTMPLGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1483
MG772934.1	KTTVASLINTLNNLNETLVTMPLGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1461
NC_014470.1	KTPVATLIATLNSLGETLVTMPLGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1453
GQ153542.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1461
DQ022305	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1457
KF569996.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
KP886809.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
AY278488.2	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
AY485277.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
AP006560.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
AP006557.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
AY274119	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
AY572038.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
AY572034.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
FJ588686.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
KY417145.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
KY417144.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
KY417147.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
KY417148.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
KY417143.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
KT444582.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
KC881005.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
KC881006.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
KF367457.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
KY417152.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
KY417146.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
KY417151.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463
KY417142.1	KEPVASIIITKLNSLNEPLVTMPIGYVTHGHLNLEEAARYMRSLKVPATVSVSSPDAVTAYN	1463

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MW532698.1	GYLTSSTTPEEHFIETISLAGSYKDWYSYSGQATELGIEFLKRGDKVYHTTSPITFHM	1538
MT040336.1	GYLTSSTTPEEHFIETISLAGSYKDWYSYSGQATELGIEFLKRGDKVYHTTSPITFHM	1538
MT040335.1	GYLTSSTTPEEHFIETISLAGSYKDWYSYSGQATELGIEFLKRGDKVYHTTSPITFHM	1538
MT040334.1	GYLTSSTTPEEHFIETISLAGSYKDWYSYSGQATELGIEFLKRGDKVYHTTSPITFHM	1538
MT040333.1	GYLTSSTTPEEHFIETISLAGSYKDWYSYSGQATELGIEFLKRGDKVYHTTSPITFHM	1538
MN996532.2	GYLTSSTTPEEHFIETISLAGSYKDWYSYSGQSTQLGIEFLKRGDKSVMYT-SNPITFHL	1545
MN988713.1	GYLTSSTTPEEHFIETISLAGSYKDWYSYSGQSTQLGIEFLKRGDKSVMYT-SNPITFHL	1546
MT093571.1	GYLTSSTTPEEHFIETISLAGSYKDWYSYSGQSTQLGIEFLKRGDKSVMYT-SNPITFHL	1546
MN996529.1	GYLTSSTTPEEHFIETISLAGSYKDWYSYSGQSTQLGIEFLKRGDKSVMYT-SNPITFHL	1546
MT072688.1	GYLTSSTTPEEHFIETISLAGSYKDWYSYSGQSTQLGIEFLKRGDKSVMYT-SNPITFHL	1546
NC_045512.2	GYLTSSTTPEEHFIETISLAGSYKDWYSYSGQSTQLGIEFLKRGDKSVMYT-SNPITFHL	1546
MN994467.1	GYLTSSTTPEEHFIETISLAGSYKDWYSYSGQSTQLGIEFLKRGDKSVMYT-SNPITFHL	1546
MG772933.1	GYLTSSTTPEEHFIETVSLAGSYKDWYSYSGQSTQLGIEFLKRGDKSVMYT-SNPITFHL	1542
MG772934.1	GYLTSSTTPEEHFIETVSLAGSYKDWYSYSGQSTELGIEFLKRGDKSVMYT-SNPITFYL	1520
NC_014470.1	GYVTASAKSAEEHFIVTVSLAGSYKDWYSYSGQRTTELGVFEFLKRGDKIVYHTVGNVIEFHM	1513
GI153542.1	GYLTSSTTPEEHFVETISLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTGSPVIEFHL	1521
DQ022305	GYLTSSTTPEEYFVETTSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTGSPVIEFHL	1517
KF569996.1	GYLTSSTTPEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
KP886809.1	GYLTSSTTPEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
AY278488.2	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
AY485277.1	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
AP006560.1	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
AP006557.1	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
AY274119	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
AY572038.1	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
AY572034.1	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
FJ588686.1	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGEKIVYHTTLESPIEFHL	1523
KY417145.1	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
KY417144.1	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
KY417147.1	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
KY417148.1	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
KY417143.1	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
KT444582.1	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTELEGPVEFHL	1523
KC881005.1	GYLTSSTTPEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
KC881006.1	GYLTSSTTSEEHFVETVSLAGSYRDWYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
KF367457.1	GYLTSSTTSEEHFVETVSLAGSYRDWYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
KY417152.1	GYLTSSTTSEEHFVETVSLAGSYRDWYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
KY417146.1	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
KY417151.1	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
KY417142.1	GYLTSSTTSEEHFVETVSLAGSYRDWSYSGQRTTELGVFEFLKRGDKIVYHTTLESPIEFHL	1523
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MW532698.1	DGEVINIDSLKTLALREVKTIKVFTTVDNINLHTQVVDMSTMYYGQQFGPTYLDGADVTK	1598
MT040336.1	DGEVINIDSLKTLALREVKTIKVFTTVDNINLHTQVVDMSTMYYGQQFGPTYLDGADVTK	1598
MT040335.1	DGEVINIDSLKTLALREVKTIKVFTTVDNINLHTQVVDMSTMYYGQQFGPTYLDGADVTK	1598
MT040334.1	DGEVINIDSLKTLALREVKTIKVFTTVDNINLHTQVVDMSTMYYGQQFGPTYLDGADVTK	1598
MT040333.1	DGEVINIDSLKTLALREVKTIKVFTTVDNINLHTQVVDMSTMYYGQQFGPTYLEGADVTK	1598
MN996532.2	DGEVITFDNLKILLSLKEVRTIKVFTTVDNINLHTQVVDMSTMYYGQQFGPTYLDGADVTK	1605
MN988713.1	DGEVITFDNLKILLSLREVRTIKVFTTVDNINLHTQVVDMSTMYYGQQFGPTYLDGADVTK	1606
MT093571.1	DGEVITFDNLKILLSLREVRTIKVFTTVDNINLHTQVVDMSTMYYGQQFGPTYLDGADVTK	1606
MN996529.1	DGEVITFDNLKILLSLREVRTIKVFTTVDNINLHTQVVDMSTMYYGQQFGPTYLDGADVTK	1606
MT072688.1	DGEVITFDNLKILLSLREVRTIKVFTTVDNINLHTQVVDMSTMYYGQQFGPTYLDGADVTK	1606
NC_045512.2	DGEVITFDNLKILLSLREVRTIKVFTTVDNINLHTQVVDMSTMYYGQQFGPTYLDGADVTK	1606
MN994467.1	DGEVITFDNLKILLSLREVRTIKVFTTVDNINLHTQVVDMSTMYYGQQFGPTYLDGADVTK	1606
MG772933.1	DGETITFDNLKILLSLREVRNIKVFTTVDNINLHTQVVDMSTMYYGQQFGPIYLDGADVTK	1602
MG772934.1	DGEVITFDNLKITLSLREVRSIKVFTTVDNINLHTQIVDMSTMYYGQQFGPTYLDGADVTK	1580
NC_014470.1	EGEVLPLEKLKTLALREVKTIKVFTTVDNINLHTQVIDMSTMYYGQQLGPTYMCGADLTk	1573
GQ153542.1	DGEVLPDLKLSLLSREVKTIKVFTTVDNTNLHTHIVIDMSTMYYGQQFGPTYLDGADVTK	1581
Q022305	DGEVLPDLKLSLLSREVKTIKVFTTVDNTNLHTHIVIDMSTMYYGQQFGPTYLDGADVTK	1577
KF569996.1	DGEVLPDLKLSLLSREVKTIKVFTTVDNTNLHTQIVDMSTMYYGQQFGPIYLDGADVTK	1583
KP886809.1	DGEVQLPDLKLSLLSLRAVKTIKVFTTVDNTNLHTQIVDMSTMYYGQQFGPTYLDGADVTK	1583
Ay278488.2	DGEVLSLDKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
Ay485277.1	DGEVLSLDKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
AP006560.1	DGEVLSLDKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
AP006557.1	DGEVLSLDKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
Ay274119	DGEVLSLDKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
Ay572038.1	DGEVLSLDKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
Ay572034.1	DGEVLSLDKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
FJ588686.1	DGEVLPDELKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
KY417145.1	DGEVLPIDKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
KY417144.1	DGEVLPDLKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
KY417147.1	DGEVLPDLKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
KY417148.1	DGEVLPDLKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
KY417143.1	DGEVLPDLKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
KT44582.1	DGEVLPDLKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
KC881005.1	DGEVLPDLKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
KC881006.1	DGEVLPDLKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
KF367457.1	DGEVLPDLKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
KY417152.1	DGEVLPDLKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
KY417146.1	DGEVLPDLKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
KY417151.1	DGEVLPDLKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
KY417142.1	DGEVLPDLKLSLLSREVKTIKVFTTVDNTNLHTQLVDMSTMYYGQQFGPTYLDGADVTK	1583
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MW532698.1	IKPHASHDSKTFYVLPNDDTLRSEAFEYHHTTDESFLGRYMSALNHTKKWKFPQVNGLTS	1658
MT040336.1	IKPHASHDSKTFYVLPNDDTLRSEAFEYHHTTDESFLGRYMSALNHTKKWKFPQVNGLTS	1658
MT040335.1	IKPHASHDSKTFYVLPNDDTLRSEAFEYHHTTDESFLGRYMSALNHTKKWKFPQVNGLTS	1658
MT040334.1	IKPHASHDSKTFYVLPNDDTLRSEAFEYHHTTDESFLGRYMSALNHTKKWKFPQVNGLTS	1658
MT040333.1	IKPHASHDSKTFYVLPNDDTLRSEAFEYHHTTDESFLGRYMSALNHTKKWKFPQVNGLTS	1658
MN996532.2	IKPHNSHEGKTFYVLPNDDTLRAEAFEYHHTTDP SFLGRYMSALNHTKKWKYPQVNGLTS	1665
MN988713.1	IKPHNSHEGKTFYVLPNDDTLRVEAFEYHHTTDP SFLGRYMSALNHTKKWKYPQVNGLTS	1666
MT093571.1	IKPHNSHEGKTFYVLPNDDTLRVEAFEYHHTTDP SFLGRYMSALNHTKKWKYPQVNGLTS	1666
MN996529.1	IKPHNSHEGKTFYVLPNDDTLRVEAFEYHHTTDP SFLGRYMSALNHTKKWKYPQVNGLTS	1666
MT072688.1	IKPHNSHEGKTFYVLPNDDTLRVEAFEYHHTTDP SFLGRYMSALNHTKKWKYPQVNGLTS	1666
NC_045512.2	IKPHNSHEGKTFYVLPNDDTLRVEAFEYHHTTDP SFLGRYMSALNHTKKWKYPQVNGLTS	1666
MN994467.1	IKPHNSHEGKTFYVLPNDDTLRVEAFEYHHTTDP SFLGRYMSALNHTKKWKYPQVNGLTS	1666
MG772933.1	IKPHNSHEGKTFYVLPNDDTLRAEAFEYHHTTDP SFLGRYMSALNHTKKWKYPQVNGLTS	1662
MG772934.1	IKPHNSHEGKTFYVLPNDDTLRVEAFEYHHTTDP SFLGRYMSALNHTKKWKYPQVNGLTS	1640
NC_014470.1	VKPHASHENKTFYVLP SDDTLRIEAFEYHHTVDESFFGRYMSALNHTKKWKYPQVGGGLTS	1633
GQ153542.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTIDESFLGRYMSALNHTKKWKFPQVGGGLTS	1641
DQ022305	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTIDESFLGRYMSALNHTKKWKFPQVGGGLTS	1637
KF569996.1	IKPHANHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
KP886809.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
AY278488.2	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
AY485277.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
AP006560.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
AP006557.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
AY274119	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
AY572038.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
AY572034.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
FJ588686.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
KY417145.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
KY417144.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
KY417147.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
KY417148.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
KY417143.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
KT444582.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
KC881005.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
KC881006.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
KF367457.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
KY417152.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
KY417146.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
KY417151.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643
KY417142.1	IKPHVNHEGKTFYVLP SDDTLRSEAFEYHHTLDESFLGRYMSALNHTKKWKFPQVGGGLTS	1643

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MW532698.1	IKWADNNCYLATALLTQQIELKFNPALQDAYRRARAGDAANFCALILAYCNKTVGELG	1718
MT040336.1	IKWADNNCYLATALLTQQIELKFNPALQDAYRRARAGDAANFCALILAYCNKTVGELG	1718
MT040335.1	IKWADNNCYLATALLTQQIELKFNPALQDAYRRARAGDAANFCALILAYCNKTVGELG	1718
MT040334.1	IKWADNNCYLATALLTQQIELKFNPALQDAYRRARAGDAANFCALILAYCNKTVGELG	1718
MT040333.1	IKWADNNCYLATALLTQQIELKFNPALQDAYRRARAGDAANFCALILAYCNKTVGELG	1718
MN996532.2	IKWADNNCYLATALLTQQIELKFNPALQDAYRRARAGDAANFCALILAYCNKTVGELG	1725
MN988713.1	IKWADNNCYLATALLTQQIELKFNPALQDAYRRARAGDAANFCALILAYCNKTVGELG	1726
MT093571.1	IKWADNNCYLATALLTQQIELKFNPALQDAYRRARAGDAANFCALILAYCNKTVGELG	1726
MN996529.1	IKWADNNCYLATALLTQQIELKFNPALQDAYRRARAGDAANFCALILAYCNKTVGELG	1726
MT072688.1	IKWADNNCYLATALLTQQIELKFNPALQDAYRRARAGDAANFCALILAYCNKTVGELG	1726
NC_045512.2	IKWADNNCYLATALLTQQIELKFNPALQDAYRRARAGDAANFCALILAYCNKTVGELG	1726
MN994467.1	IKWADNNCYLATALLTQQIELKFNPALQDAYRRARAGDAANFCALILAYCNKTVGELG	1726
MG772933.1	IKWADNNCYLATALLTQQIELKFNPALQDAYRRARAGDAANFCALILAYCNKTVGELG	1722
MG772934.1	IKWADNNCYLATALLTQQIELKFNPALQDAYRRARAGDAANFCALILAYCNKTVGELG	1700
NC_014470.1	IKWADNNCYLSSVLLSLQQIDIKFNAPALQDAYRRARAGDAANFCALVLAISKTVGELG	1693
GQ153542.1	IKWADNNCYLSSVLLALQQVEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1701
DQ022305	IKWADNNCYLSSVLLALQQVEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1697
KF569996.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
KP886809.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
AY278488.2	IKWADNNCYLSSVLLALQQLEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
AY485277.1	IKWADNNCYLSSVLLALQQLEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
AP006560.1	IKWADNNCYLSSVLLALQQLEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
AP006557.1	IKWADNNCYLSSVLLALQQLEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
AY274119	IKWADNNCYLSSVLLALQQLEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
AY572038.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
AY572034.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
FJ588686.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
KY417145.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
KY417144.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
KY417147.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
KY417148.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
KY417143.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
KT444582.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
KC881005.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
KC881006.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
KF367457.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
KY417152.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
KY417146.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
KY417151.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703
KY417142.1	IKWADNNCYLSSVLLALQQIEVKFNAPALQEAYRRARAGDAANFCALILAYSNTVGE	1703

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MW532698.1	DVRETMSHLFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYMGTLSEQLKRGVTV	1778
MT040336.1	DVRETMSHLFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYMGTLSEQLKRGVTV	1778
MT040335.1	DVRETMSHLFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYMGTLSEQLKRGVTV	1778
MT040334.1	DVRETMSHLFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYMGTLSEQLKRGVTV	1778
MT040333.1	DVRETMSHLFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYMGTLSEQLKRGVTV	1778
MN996532.2	DVRETMNYLFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYMGTLSEQLKKGQIP	1785
MN988713.1	DVRETMNYLFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYMGTLSEQLKKGQIP	1786
MT093571.1	DVRETMNYLFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYMGTLSEQLKKGQIP	1786
MN996529.1	DVRETMNYLFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYMGTLSEQLKKGQIP	1786
MT072688.1	DVRETMNYLFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYMGTLSEQLKKGQIP	1786
NC_045512.2	DVRETMNYLFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYMGTLSEQLKKGQIP	1786
MN994467.1	DVRETMNYLFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYMGTLSEQLKKGQIP	1786
MG772933.1	DVRETMNYLFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYMGTLSEQLKKGQIP	1782
MG772934.1	DVRETMNYLFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYMGTLSEQLKKGQIP	1760
NC_014470.1	DVRETMNYLFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYMGTLSEQLKKGQIP	1753
GQ153542.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1761
DQ022305	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1757
KF569996.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
KP886809.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
AY278488.2	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
AY485277.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
AP006560.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
AP006557.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
AY274119	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
AY572038.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
AY572034.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
FJ588686.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
KY417145.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
KY417144.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
KY417147.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
KY417148.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
KY417143.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
KT444582.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
KC881005.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
KC881006.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
KF367457.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
KY417152.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
KY417146.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
KY417151.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763
KY417142.1	DVRETMTHLLQHANLES AKRVLNVVCKHCGQKTTTLTGVEAVMYMGTLSEQLKKGQIP	1763

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MW532698.1	CVCGRQATQYLVQQESSFVMSAPPAEYKLLKHGTFLCASEYTGNYQCGHYKHITSKETLY	1838
MT040336.1	CVCGRQATQYLVQQESSFVMSAPPAEYKLLKHGTFLCASEYTGNYQCGHYKHITSKETLY	1838
MT040335.1	CVCGRQATQYLVQQESSFVMSAPPAEYKLLKHGTFLCASEYTGNYQCGHYKHITSKETLY	1838
MT040334.1	CVCGRQATQYLVQQESSFVMSAPPAEYKLLKHGTFLCASEYTGNYQCGHYKHITSKETLY	1838
MT040333.1	CVCGRQATQYLVQQESSFVMSAPPAEYKLLKHGTFLCASEYTGNYQCGHYKHITSKETLY	1838
MN996532.2	CTCGKQATQYLVQQESSFVMSAPPAQYELKHGTFTCASEYTGNYQCGHYKHITSKETLY	1845
MN988713.1	CTCGKQATKYLQVQESSFVMSAPPAQYELKHGTFTCASEYTGNYQCGHYKHITSKETLY	1846
MT093571.1	CTCGKQATKYLQVQESSFVMSAPPAQYELKHGTFTCASEYTGNYQCGHYKHITSKETLY	1846
MN996529.1	CTCGKQATKYLQVQESSFVMSAPPAQYELKHGTFTCASEYTGNYQCGHYKHITSKETLY	1846
MT072688.1	CTCGKQATKYLQVQESSFVMSAPPAQYELKHGTFTCASEYTGNYQCGHYKHITSKETLY	1846
NC_045512.2	CTCGKQATKYLQVQESSFVMSAPPAQYELKHGTFTCASEYTGNYQCGHYKHITSKETLY	1846
MN994467.1	CTCGKQATKYLQVQESSFVMSAPPAQYELKHGTFTCASEYTGNYQCGHYKHITSKETLY	1846
MG772933.1	CMCGKQATQYLVQQESSFVMSAPPAQYELKHGTFTCASEYTGNYQCGHYKHITSKETLY	1842
MG772934.1	CMCGKQATQYLVQQESSFVMSAPPAQYELKHGTFTCASEYTGNYQCGHYKHITSKETLY	1820
NC_014470.1	CVCGRATQYLVQVQESSFVMSAPPAEYTLQGTGEFLCANEYTGNYQCGHYTHITNRETLY	1813
GQ153542.1	CVCGRNATQYLVQQESSFVMSAPPAEYKLQQGAFLCANEYTGNYQCGHYTHITAKETLY	1821
DQ022305	CVCGRNATQYLVQQESSFVMSAPPAEYKLQQGAFLCANEYTGNYQCGHYTHITAKETLY	1817
KF569996.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
KP886809.1	CVCGRDATQYLVQVQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
AY278488.2	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
AY485277.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
AP006560.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
AP006557.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
AY274119	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
AY572038.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
AY572034.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
FJ588686.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
KY417145.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
KY417144.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
KY417147.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
KY417148.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
KY417143.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
KT444582.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
KC881005.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
KC881006.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
KF367457.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
KY417152.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
KY417146.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
KY417151.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823
KY417142.1	CVCGRDATQYLVQQESSFVMSAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLY	1823

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NW532698.1	VIDGALLSKTSEYKGPVTDVIFYKENS YTTTIKPIVYKLDGVVCTEIDPKLDGYKKDNAY	1898
MT040336.1	VIDGALLSKTSEYKGPVTDVIFYKENS YTTTIKPIVYKLDGVVCTEIDPKLDGYKKDNAY	1898
MT040335.1	VIDGALLSKTSEYKGPVTDVIFYKENS YTTTIKPIVYKLDGVVCTEIDPKLDGYKKDNAY	1898
MT040334.1	VIDGALLSKTSEYKGPVTDVIFYKENS YTTTIKPIVYKLDGVVCTEIDPKLDGYKKDNAY	1898
MT040333.1	VIDGALLSKTSEYKGPVTDVIFYKENS YTTTIKPIVYKLDGVVCTEIDPKLDGYKKDNAY	1898
MN996532.2	CIDGALLTKSSEYKGPITDIFYKENS YITTIKPVYKLDGVVCTEIDPKLDNYYKKDNSY	1905
MN988713.1	CIDGALLTKSSEYKGPITDIFYKENS YTTTIKPVYKLDGVVCTEIDPKLDNYYKKDNSY	1906
MT093571.1	CIDGALLTKSSEYKGPITDIFYKENS YTTTIKPVYKLDGVVCTEIDPKLDNYYKKDNSY	1906
MN996529.1	CIDGALLTKSSEYKGPITDIFYKENS YTTTIKPVYKLDGVVCTEIDPKLDNYYKKDNSY	1906
MT072688.1	CIDGALLTKSSEYKGPITDIFYKENS YTTTIKPVYKLDGVVCTEIDPKLDNYYKKDNSY	1906
NC_045512.2	CIDGALLTKSSEYKGPITDIFYKENS YTTTIKPVYKLDGVVCTEIDPKLDNYYKKDNSY	1906
MN994467.1	CIDGALLTKSSEYKGPITDIFYKENS YTTTIKPVYKLDGVVCTEIDPKLDNYYKKDNSY	1906
MG772933.1	CIDGALLTKSSEYKGSITDIFYKENS YTTTIKPVYKLDGVVCTEIDPKLDGYKKDNAY	1902
MG772934.1	CIDGALLTKSSEYKGSITDIFYKENS YTTTIKPVYKLDGVVCTEIDPKLDGYKKDNAY	1880
NC_014470.1	KIDGALLTKITEYKGPVADVIFYKETS YSTDIKPVSYKLDGVTYTEINPDLNGYKKDNAY	1873
GQ153542.1	RVDGAHLTKMSEYKGPVTDVIFYKETS YTTAIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1881
DQ022305	RVDGAHLTKMSEYKGPVTDVIFYKETS YTTAIKPVSYKLDGVTYTEIEPKLDGYKKGNAY	1877
KF569996.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
KP886809.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
AY278488.2	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
AY485277.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
AP006560.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
AP006557.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
AY274119	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
AY572038.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
AY572034.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
FJ588686.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
KY417145.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
KY417144.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
KY417147.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
KY417148.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
KY417143.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
KT444582.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
KC881005.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
KC881006.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
KF367457.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
KY417152.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
KY417146.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
KY417151.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
KY417142.1	RIDGAHLTKMSEYKGPVTDVIFYKETS YTTTIKPVSYKLDGVTYTEIEPKLDGYKKDNAY	1883
	:*** *:**** :*:***** ** *:***: *****: ****:*.****.*.*	

MW532698.1	FTEQPIDLVPTQYPNSNFDNFKFVCDNTKFADDLNQMSGYKKPASRELKITFFPDNLNGD	1958
MT040336.1	FTEQPIDLVPTQYPNSNFDNFKFVCDNTKFADDLNQMSGYKKPASRELKITFFPDNLNGD	1958
MT040335.1	FTEQPIDLVPTQYPNSNFDNFKFVCDNTKFADDLNQMSGYKKPASRELKITFFPDNLNGD	1958
MT040334.1	FTEQPIDLVPTQYPNSNFDNFKFVCDNTKFADDLNQMSGYKKPASRELKITFFPDNLNGD	1958
MT040333.1	FTEQPIDLVPTQYPNSNFDNFKFVCDNTKFADDLNQMSGYKKPASRELKITFFPDNLNGD	1958
MN996532.2	FTEQPIDLVPNQYPYNASFDNFKFVCDNIKLADDLNQLTGYYKKPASREFKVTFPPDLNGD	1965
MN988713.1	FTEQPIDLVPNQYPYNASFDNFKFVCDNIKFADDLNQLTGYYKKPASRELKVTFPPDLNGD	1966
MT093571.1	FTEQPIDLVPNQYPYNASFDNFKFVCDNIKFADDLNQLTGYYKKPASRELKVTFPPDLNGD	1966
MN996529.1	FTEQPIDLVPNQYPYNASFDNFKFVCDNIKFADDLNQLTGYYKKPASRELKVTFPPDLNGD	1966
MT072688.1	FTEQPIDLVPNQYPYNASFDNFKFVCDNIKFADDLNQLTGYYKKPASRELKVTFPPDLNGD	1966
NC_045512.2	FTEQPIDLVPNQYPYNASFDNFKFVCDNIKFADDLNQLTGYYKKPASRELKVTFPPDLNGD	1966
MN994467.1	FTEQPIDLVPNQYPYNASFDNFKFVCDNIKFADDLNQLTGYYKKPASRELKVTFPPDLNGD	1966
MG772933.1	FTEQPIDLVPNQYPYNASFDNFKFVCDNTKFADDLNQLSGYKKPASRELKVTFPPDLNGD	1962
MG772934.1	FTEQPIDLVPNQYPYNASFDNFRFVCDNIKFADDLNQLSGYKKPALRELKVTFPPDLNGD	1940
NC_014470.1	FTEQPIDLVPTQPLPNASFDNFRFVCDNTKFADDLNQMTGFKKPPSRDLTITFFPDNLNGD	1933
GQ153542.1	YTEQPIDLVPTQPMPNASFDNFKLTCSNTKFADDLNQMTGFKKPPASRELTVTFPPDLNGD	1941
DQ022305	YTEQPIDLVPTQPMPNASFDNFKLTCSNTKFADDLNQMTGFKKPPASRELTVTFPPDLNGD	1937
KF569996.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
KP886809.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
AY278488.2	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
AY485277.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
AP006560.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
AP006557.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
AY274119	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
AY572038.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
AY572034.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
FJ588686.1	-----	1883
KY417145.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
KY417144.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
KY417147.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELYVTFFPDNLNGD	1943
KY417148.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
KY417143.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
KT444582.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
KC881005.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
KC881006.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELYVTFFPDNLNGD	1943
KF367457.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELYVTFFPDNLNGD	1943
KY417152.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
KY417146.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
KY417151.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943
KY417142.1	YTEQPIDLVPTQPLPNASFDNFKLTCSNTKFADDLNQMTGFTKPPASRELSVTFFPDNLNGD	1943

MW532698.1	VVAIDYKHYTPSFKKGAKLLHKPIVWHVNNNTINKATFKPNTWCLRCLWSTKPVETSNI	2018
MT040336.1	VVAIDYKHYTPSFKKGAKLLHKPIVWHVNNNTINKATFKPNTWCLRCLWSTKPVETSNI	2018
MT040335.1	VVAIDYKHYTPSFKKGAKLLHKPIVWHVNNNTINKATFKPNTWCLRCLWSTKPVETSNI	2018
MT040334.1	VVAIDYKHYTPSFKKGAKLLHKPIVWHVNNNTINKATFKPNTWCLRCLWSTKPVETSNI	2018
MT040333.1	VVAIDYKHYTPSFKKGAKLLHKPIVWHVNNNTINKATFKPNTWCLRCLWSTKPVETSNI	2018
MN996532.2	VVAIDYKHYTPSFKKGAKLLHKPIVWHVNNATNKATYKPNTWCIRCLWNTKPVETSNS	2025
MN988713.1	VVAIDYKHYTPSFKKGAKLLHKPIVWHVNNATNKATYKPNTWCIRCLWSTKPVETSNS	2026
MT093571.1	VVAIDYKHYTPSFKKGAKLLHKPIVWHVNNATNKATYKPNTWCIRCLWSTKPVETSNS	2026
MN996529.1	VVAIDYKHYTPSFKKGAKLLHKPIVWHVNNATNKATYKPNTWCIRCLWSTKPVETSNS	2026
MT072688.1	VVAIDYKHYTPSFKKGAKLLHKPIVWHVNNATNKATYKPNTWCIRCLWSTKPVETSNS	2026
NC_045512.2	VVAIDYKHYTPSFKKGAKLLHKPIVWHVNNATNKATYKPNTWCIRCLWSTKPVETSNS	2026
MN994467.1	VVAIDYKHYTPSFKKGAKLLHKPIVWHVNNATNKATYKPNTWCIRCLWSTKPVETSNS	2026
MG772933.1	VVAIDYKHYTPSFKKGAKLLHKPIVWHVNNATNKATYKPNTWCIRCLWSTKPVETSNS	2022
MG772934.1	VVAIDYKHYTPSFKKGAKLLHKPIVWHVNNATNKATYKPNTWCIRCLWSTKPVETSNS	2000
NC_014470.1	VVAIDYKHYTPSFKKGAKLVHKPILWHVNQTTTKSTFKPNMWCLRCLYSTKPVETSNS	1993
GQ153542.1	VVAIDYRHYSTSFKKGAKLLHKPILWHINQTTNKTYYKPNIWCLRCLWSTKPVDTNS	2001
DQ022305	VVAIDYRHYSTSFKKGAKLVHKPILWHINQTTNKTYYKPNIWCLRCLWSTKPVDTNS	1997
KF569996.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
KP886809.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
AY278488.2	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
AY485277.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
AP006560.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
AP006557.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
AY274119	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
AY572038.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
AY572034.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
FJ588686.1	-----	1883
KY417145.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
KY417144.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
KY417147.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
KY417148.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
KY417143.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
KT444582.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
KC881005.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
KC881006.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
KF367457.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
KY417152.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
KY417146.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
KY417151.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003
KY417142.1	VVAIDYRHYSASFKKGAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTNS	2003

MW532698.1	VLQSED	TQGMETLACEDTKLVTEEVVETPTIQKDIVECDVKTTEVVGDVILKPVQDGVKI	2078
MT040336.1	VLQSED	TQGMETLACEDTKLVTEEVVETPTIQKDIVECDVKTTEVVGDVILKPAQDGVKI	2078
MT040335.1	VLQSED	TQGMETLACEDTKLVTEEVVETPTIQKDIVECDVKTTEVVGDVILKPAQDGVKI	2078
MT040334.1	VLQSED	TQGMETLACEDTKLVTEEVVETPTIQKDIVECDVKTTEVVGDVILKPAQDGVKI	2078
MT040333.1	VLQSED	TQGMETLACEDTKLVTEEVVETPTIQKDIVECDVKTTEVVGDVILKPAQDGVKI	2078
MN996532.2	VLKSED	AQGMDNLACEDLKPVSEEVVENPTIQKDILECNVKTTEVVGDIILKPANDGLKI	2085
MN988713.1	VLKSED	AQGMDNLACEDLKPVSEEVVENPTIQKDILECNVKTTEVVGDIILKPANNSLKI	2086
MT093571.1	VLKSED	AQGMDNLACEDLKPVSEEVVENPTIQKDILECNVKTTEVVGDIILKPANNSLKI	2086
MN996529.1	VLKSED	AQGMDNLACEDLKPVSEEVVENPTIQKDILECNVKTTEVVGDIILKPANNSLKI	2086
MT072688.1	VLKSED	AQGMDNLACEDLKPVSEEVVENPTIQKDILECNVKTTEVVGDIILKPANNSLKI	2086
NC_045512.2	VLKSED	AQGMDNLACEDLKPVSEEVVENPTIQKDILECNVKTTEVVGDIILKPANNSLKI	2086
MN994467.1	VLKSED	AQGMDNLACEDLKPVSEEVVENPTIQKDILECNVKTTEVVGDIILKPANNSLKI	2086
MG772933.1	ALGLGDT	QGMMDNLACEVLKPVSEEVVENPTIQKDILECNVKTTEVVGDIILKPASDGLKI	2082
MG772934.1	ALKL	LGDTQGMMDNLACEVLKPVSEEVVENPTIQKDILECNVKTTEVVGDIILKPAIDGLKI	2060
NC_014470.1	VLSSDD	AQGMDNLACESQQTVAAEEVDNPTIQKDILECDVKTTEVVGNVILKPSADGIKV	2053
GQ153542.1	VLVVED	TQGMMDNLACESQTTTSEEVVENPTVQKEIIIECDVKTTEVVGNVILKPSEEGVKV	2061
DQ022305	VLVVED	TQGMMDNLACESQTTTSEEVVENPTVQKEIIIECDVKTTEVVGNVILKPSEEGVKV	2057
KF569996.1	VLAVED	TQGMMDNLACESQQPTSEEVVENPTVQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
KP886809.1	VLAVED	TQGMMDNLACESQQPSSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
AY278488.2	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
AY485277.1	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
AP006560.1	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
AP006557.1	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
AY274119	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
AY572038.1	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
AY572034.1	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
FJ588686.1	-----	-----	1883
KY417145.1	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
KY417144.1	VLAVED	TQGMMDNLACESQQPTSEAVVENPTIQKEVLECDVKTTEVVGNVILKPSDEGKIV	2063
KY417147.1	VLAVED	TRGMDNLACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
KY417148.1	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
KY417143.1	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
KT444582.1	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
KC881005.1	VLAVED	TQGMMDNLACESQQPTSEAVVENPTIQKEVLECDVKTTEVVGNVILKPSDEGKIV	2063
KC881006.1	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
KF367457.1	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
KY417152.1	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
KY417146.1	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVLECDVKTTEVVGNVILKPSDEGKIV	2063
KY417151.1	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGKIV	2063
KY417142.1	VLAVED	TQGMMDNLACESQQPTSEEVVENPTIQKEVLECDVKTTEVVGNVILKPSDEGKIV	2063

MW532698.1	TEEVGHEDLMAAYVDNTSLTIKKPNELSVMLGLKTLKIHGLAAVNSVPWDTIVTYAKPFL	2138
MT040336.1	TEEVGHEDLMAAYVDNTSLTIKKPNELSVMLGLKTLKTHGLAAVNSVPWDTIVTYAKPFL	2138
MT040335.1	TEEVGHEDLMAAYVDNTSLTIKKPNELSVMLGLKTLKTHGLAAVNSVPWDTIVTYAKPFL	2138
MT040334.1	TEEVGHEDLMAAYVDNTSLTIKKPNELSVMLGLKTLKTHGLAAVNSVPWDTIVTYAKPFL	2138
MT040333.1	TEEVGHEDLMAAYVDNTSLTIKKPNELSVMLGLKTLKTHGLAAVNSVPWDTIVTYAKPFL	2138
MN996532.2	TEEVGHTDLMAAYVDNSSLTIKKPNELSRVLGLKTLVTHGLAAVNSVPWDTIANYAKPFL	2145
MN988713.1	TEEVGHTDLMAAYVDNSSLTIKKPNELSRVLGLKTLATHGLAAVNSVPWDTIANYAKPFL	2146
MT093571.1	TEEVGHTDLMAAYVDNSSLTIKKPNELSRVLGLKTLATHGLAAVNSVPWDTIANYAKPFL	2146
MN996529.1	TEEVGHTDLMAAYVDNSSLTIKKPNELSRVLGLKTLATHGLAAVNSVPWDTIANYAKPFL	2146
MT072688.1	TEEVGHTDLMAAYVDNSSLTIKKPNELSRVLGLKTLATHGLAAVNSVPWDTIANYAKPFL	2146
NC_045512.2	TEEVGHTDLMAAYVDNSSLTIKKPNELSRVLGLKTLATHGLAAVNSVPWDTIANYAKPFL	2146
MN994467.1	TEEVGHTDLMAAYVDNSSLTIKKPNELSRVLGLKTLATHGLAAVNSVPWDTIANYAKPFL	2146
MG772933.1	TKEVGHTDLMAAYVDNSSLTIKKPNELSRVLGLKTLATHGLAAVNSVPWDTIANYVKKPFL	2142
MG772934.1	TEEVGHTDLMAAYVDNSSLTIKKPNELSRVLGLKTLATHGLAAVNSVPWDTIANYAKPFL	2120
NC_014470.1	TSELEHEDLMAAYVNETSITIKKPNELSIMLGLKTIATHGAAVNSVPWIKICAYVKPFL	2113
GQ153542.1	TQELGHEDLMAAYVEETSITIKKPNELSLALGLKTLATHGAAVNSVPWSKILAYVKPFL	2121
DQ022305	TQELGHEDLMAAYVEETSITIKKPNELSLALGLKTLATHGAAVNSVPWSKILAYVKPFL	2117
KF569996.1	TQELGHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAAVNSVPWSKILAYVKPFL	2123
KP886809.1	TQELGHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAAVNSVPWSKILAYVKPFL	2123
AY278488.2	TQELGHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
AY485277.1	TQELGHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
AP006560.1	TQELGHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
AP006557.1	TQELGHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
AY274119	TQELGHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
AY572038.1	TQELGHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
AY572034.1	TQELGHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
FJ588686.1	-----VENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	1930
KY417145.1	TQELGHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKIFAYVKPFL	2123
KY417144.1	TQELGHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
KY417147.1	TQELDHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
KY417148.1	TQELDHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
KY417143.1	TQELDHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
KT444582.1	TQELDHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
KC881005.1	TQELGHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
KC881006.1	TQELDHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
KF367457.1	TQELDHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
KY417152.1	TQELGHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
KY417146.1	TQELGHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
KY417151.1	TQELGHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123
KY417142.1	TQELGHEDLMAAYVENTSITIKKPNELSLALGLKTIATHGIAVNSVPWSKILAYVKPFL	2123

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MW532698.1	NKVTLSVAASGVARCLNRI	CVNMPYVYLTL	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2198	
MT040336.1	NKVTLSVAASGVARCLNRI	CVNMPYVYLTL	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2198	
MT040335.1	NKVTLSVAASGVARCLNRI	CVNMPYVYLTL	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2198	
MT040334.1	NKVTLSVAASGVARCLNRI	CVNMPYVYLTL	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2198	
MT040333.1	NKVTLSVAASGVARCLNRI	CVNMPYVYLTL	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2198	
MN996532.2	NKVVSTTTNIVTRCLNRVCTN	MPYFFTL	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2205	
MN988713.1	NKVVSTTTNIVTRCLNRVCTN	MPYFFTL	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2206	
MT093571.1	NKVVSTTTNIVTRCLNRVCTN	MPYFFTL	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2206	
MN996529.1	NKVVSTTTNIVTRCLNRVCTN	MPYFFTL	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2206	
MT072688.1	NKVVSTTTNIVTRCLNRVCTN	MPYFFTL	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2206	
NC_045512.2	NKVVSTTTNIVTRCLNRVCTN	MPYFFTL	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2206	
MN994467.1	NKVVSTTTNIVTRCLNRVCTN	MPYFFTL	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2206	
MG772933.1	NKVVSTTTNIVTRCLNRVCTN	MPYFFTL	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2202	
MG772934.1	NKVVSTTTNIVTRCLNRVCTN	MPYFFTL	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2180	
NC_014470.1	GYVAEQSNCKIKRCFRFV	FNDYMPFL	TL	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2173
Q0153542.1	GQTAVITSNCIKKCVQR	VFSNMPYV	IT	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2181
DQ022305	GQTAVITSNCIKKCVQR	VFSNMPYV	IT	LLQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2177
KF569996.1	GQAATTTSNCAKRLVQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
KP886809.1	GQAATTTSNCAKRLVQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
AY278488.2	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
AY485277.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
AP006560.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
AP006557.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
AY274119	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
AY572038.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
AY572034.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
FJ588686.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	1990	
KY417145.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
KY417144.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
KY417147.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
KY417148.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
KY417143.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
KT444582.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
KC881005.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
KC881006.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
KF367457.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
KY417152.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
KY417146.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
KY417151.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	
KY417142.1	GQAATTTSNCAKRLAQR	VFN	NMPYVFTLLFQLCFTFTRSTNSRIKASMPPTTIAKNTVKSV	2183	

MW532698.1	GKFCLEASFNLYKSPNFSKLITIIIVWFLLLSVCLGSLIYSSAALGVLMNSNLGMPSYCTSY	2258
MT040336.1	GKFCLEASFNLYKSPNFSKLITIIIVWFLLLSVCLGSLIYSSAALGVLMNSNLGMPSYCTSY	2258
MT040335.1	GKFCLEASFNLYKSPNFSKLITIIIVWFLLLSVCLGSLIYSSAALGVLMNSNLGMPSYCTSY	2258
MT040334.1	GKFCLEASFNLYKSPNFSKLITIIIVWFLLLSVCLGSLIYSSAALGVLMNSNLGMPSYCTSY	2258
MT040333.1	GKFCLEASFNLYKSPNFSKLITIIIVWFLLLSVCLGSLIYSSAALGVLMNSNLGMPSYCTSY	2258
MN996532.2	GKFCLEASFNLYKSPNFFKLINIIIWFLLLSVCLGSLIYSTAALGVLMNSNLGMPSYCTGY	2265
MN988713.1	GKFCLEASFNLYKSPNFSKLINIIIWFLLLSVCLGSLIYSTAALGVLMNSNLGMPSYCTGY	2266
MT093571.1	GKFCLEASFNLYKSPNFSKLINIIIWFLLLSVCLGSLIYSTAALGVLMNSNLGMPSYCTGY	2266
MN996529.1	GKFCLEASFNLYKSPNFSKLINIIIWFLLLSVCLGSLIYSTAALSVMNSNLGMPSYCTGY	2266
MT072688.1	GKFCLEASFNLYKSPNFSKLINIIIWFLLLSVCLGSLIYSTAALGVLMNSNLGMPSYCTGY	2266
NC_045512.2	GKFCLEASFNLYKSPNFSKLINIIIWFLLLSVCLGSLIYSTAALGVLMNSNLGMPSYCTGY	2266
MN994467.1	GKFCLEASFNLYKSPNFSKLINIIIWFLLLSVCLGSLIYSTAALGVLMNSNLGMPSYCTGY	2266
MG772933.1	GKFCIEASFNYLKSPNFSKLINIVIWFLLLSVCLGSLIYSTAALGVLMNSNLGMPSYCTVY	2262
MG772934.1	GKFCIEASFNYLKSPNFSKLINIVIWFLLLSVCLGSLIYSTAALGVLMNSNLGMPSYCTVY	2240
NC_014470.1	VRFCLDALTMYVKSPKFSGLTIVVMWLLLLSVCLGCLVYAVSAGFailsSGFGMSYCDGV	2233
GQ153542.1	QQ153542CINIVKSPKFSKLFTIWMWLLLLSTCLGSlyTVTAALGVCLSSLGVPsyCDGV	2241
DQ022305	AKLCLDVCINIVKSPKFSKLFTIWMWLLLLSICLGSlyTVTAVLGVCLSSLGVPsyCDGV	2237
KF569996.1	AKLCLEAGINIVKSPKFSKLFTIAMWLLLLSICLGSlyVTAAFGVLLSNfGAPsyCNGV	2243
KP886809.1	VKLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGFliyVIAAFGVLLSNfGAPsyCNGV	2243
AY278488.2	AKLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlicvTAAFGVLLSNfGAPsyCNGV	2243
AY485277.1	AKLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlicvTAAFGVLLSNfGAPsyCNGV	2243
AP006560.1	AKLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlicvTAAFGVLLSNfGAPsyCNGV	2243
AP006557.1	AKLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlicvTAAFGVLLSNfGAPsyCNGV	2243
AY274119	AKLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlicvTAAFGVLLSNfGAPsyCNGV	2243
AY572038.1	AKLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlicvTAAFGVLLSNfGAPsyCNGV	2243
AY572034.1	AKLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlicvTAAFGVLLSNfGAPsyCNGV	2243
FJ588686.1	ARLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlyvTAAALGVLLSNfGAPsyCSGV	2050
KY417145.1	ARLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlyvTAAALGVLLSNfGAPsyCSGV	2243
KY417144.1	ARLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlyvTAAALGVLLSNVGAPsyCSGV	2243
KY417147.1	ARLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlyvTAAALGVLLSNfGAPsyCSGV	2243
KY417148.1	ARLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlyvTAAALGVLLSNfGAPsyCSGV	2243
KY417143.1	ARLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlyvTAAALGVLLSNfGAPsyCSGV	2243
KT444582.1	ARLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlyvTAAALGVLLSNfGAPsyCSGV	2243
KC881005.1	ARLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlyvTAAALGVLLSNVGAPsyCSGV	2243
KC881006.1	ARLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlyvTAAALGVLLSNfGAPsyCSGV	2243
KF367457.1	ARLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlyvTAAALGVLLSNfGAPsyCSGV	2243
KY417152.1	ARLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlyvTAAALGVLLSNfGAPsyCSGV	2243
KY417146.1	ARLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlyvTAAALGVLLSNfGAPsyCSGV	2243
KY417151.1	ARLCLDAGINIVKSPKFSKLFTIAMWLLLLSICLGSlyvTAAALGVLLSNfGAPsyCSGV	2243
KY417142.1	ARLCLDAVINIVKSPKFSKLFTIAMWLLLLSICLGSlyvTAAALGVLLSNfGAPsyCSGV	2243
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MW532698.1	RDGYLNSTNVTTTAYCTGSI PCSVCLSGMDSL DAYPALETIQVTISSFKWDLTAFGI IAE	2318
MT040336.1	RDGYLNSTNVTTTAYCTGSI PCSVCLSGMDSL DAYPALETIQVTISSFKWDLTAFGI IAE	2318
MT040335.1	RDGYLNSTNVTTTAYCTGSI PCSVCLSGMDSL DAYPALETIQVTISSFKWDLTAFGI IAE	2318
MT040334.1	RDGYLNSTNVTTTAYCTGSI PCSVCLSGMDSL DAYPALETIQVTISSFKWDLTAFGI IAE	2318
MT040333.1	RDGYLNSTNVTTTAYCTGSI PCSVCLSGMDSL DAYPALETIQVTISSFKWDLTAFGI IAE	2318
MN996532.2	REGYLNSTNVTTAIYCTGSI PCSVCLSGLDSDL TYPSLETIQITISSFKWDLTAFGL VAE	2325
MN988713.1	REGYLNSTNVTTIATYCTGSI PCSVCLSGLDSDL TYPSLETIQITISSFKWDLTAFGL VAE	2326
MT093571.1	REGYLNSTNVTTIATYCTGSI PCSVCLSGLDSDL TYPSLETIQITISSFKWDLTAFGL VAE	2326
MN996529.1	REGYLNSTNVTTIATYCTGSI PCSVCLSGLDSDL TYPSLETIQITISSFKWDLTAFGL VAE	2326
MT072688.1	REGYLNSTNVTTIATYCTGSI PCSVCLSGLDSDL TYPSLETIQITISSFKWDLTAFGL VAE	2326
NC_045512.2	REGYLNSTNVTTIATYCTGSI PCSVCLSGLDSDL TYPSLETIQITISSFKWDLTAFGL VAE	2326
MN994467.1	REGYLNSTNVTTIATYCTGSI PCSVCLSGLDSDL TYPSLETIQITISSFKWDLTAFGL VAE	2326
MG772933.1	REGYLNSTNVTTATYCTGSI PCSVCLSGLDSDL TYPSLETIQITISSFKWDLTAFGL VAE	2322
MG772934.1	REGYLNSTNVTTIATYCTGSI PCSVCLSGLDSDL TYPSLETIQITISSFKWDLTAFGL VAE	2300
NC_014470.1	RAGYVNSSNVTTIPDYCAGSL PCGVCCLSGLDSDL DAYPALETIQVTISSYKLDLT FVGMMAE	2293
GQ153542.1	RELYINSSNVTTMDFCQGSFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT FFLGLAAE	2301
DQ022305	RELYINSSNVTTMDFCQGYFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT FFLGLAAE	2297
KF569996.1	RELYLNSSNVTTMDFCEGSFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT FFLGLAAE	2303
KP886809.1	RELYLNSSNVTTMDFCEGSFPCSICLSGLDSLDSYPALETIQVTISSYKLDLT I LGLAAE	2303
AY278488.2	RELYLNSSNVTTMDFCEGSFPCSICLSGLDSLDSYPALETIQVTISSYKLDLT I LGLAAE	2303
AY485277.1	RELYLNSSNVTTMDFCEGSFPCSICLSGLDSLDSYPALETIQVTISSYKLDLT I LGLAAE	2303
AP006560.1	RELYLNSSNVTTMDFCEGSFPCSICLSGLDSLDSYPALETIQVTISSYKLDLT I LGLAAE	2303
AP006557.1	RELYLNSSNVTTMDFCEGSFPCSICLSGLDSLDSYPALETIQVTISSYKLDLT I LGLAAE	2303
AY274119	RELYLNSSNVTTMDFCEGSFPCSICLSGLDSLDSYPALETIQVTISSYKLDLT I LGLAAE	2303
AY572038.1	RELYLNSSNVTTMDFCEGSFPCSICLSGLDSLDSYPALETIQVTISSYKLDLT I LGLAAE	2303
AY572034.1	RELYLNSSNVTTMDFCEGSFPCSICLSGLDSLDSYPALETIQVTISSYKLDLT I LGLAAE	2303
FJ588686.1	RELYLNSSNVTTMDFCEGSFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT I LGLAAE	2110
KY417145.1	RESYLNSSNVTTMDFCEGSFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT I LGLAAE	2303
KY417144.1	RESYLNSSNVTTMDFCEGSFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT I LGLAAE	2303
KY417147.1	RESYLNSSNVTTMDFCEGSFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT I LGLAAE	2303
KY417148.1	RESYLNSSNVTTMDFCEGSFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT I LGLAAE	2303
KY417143.1	RESYLNSSNVTTMDFCEGSFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT I LGLAAE	2303
KT444582.1	RESYLNSSNVTTMDFCEGSFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT I LGLAAE	2303
KC881005.1	RESYLNSSNVTTMDFCEGSFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT I LGLAAE	2303
KC881006.1	RESYLNSSNVTTMDFCEGSFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT I LGLAAE	2303
KF367457.1	RESYLNSSNVTTMDFCEGSFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT I LGLAAE	2303
KY417152.1	RESYLNSSNVTTMDFCEGSFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT I LGLAAE	2303
KY417146.1	RESYLNSSNVTTMDFCEGSFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT I LGLAAE	2303
KY417151.1	RESYLNSSNVTTMDFCEGSFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT I LGLAAE	2303
KY417142.1	RESYLNSSNVTTMDFCEGSFPCSVCCLSGLDSDL SYPALETIQVTISSYKLDLT I LGLAAE	2303
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MW532698.1	WCLAYILFTRFFYVLGLAAIMQLFFGYFAVHFISNSWLMWLIINLVQMAPISAMVRMYIF	2378
MT040336.1	WCLAYILFTRFFYVLGLAAIMQLFFGYFAVHFISNSWLMWLIINLVQMAPISAMVRMYIF	2378
MT040335.1	WCLAYILFTRFFYVLGLAAIMQLFFGYFAVHFISNSWLMWLIINLVQMAPISAMVRMYIF	2378
MT040334.1	WCLAYILFTRFFYVLGLAAIMQLFFGYFAVHFISNSWLMWLIINLVQMAPISAMVRMYIF	2378
MT040333.1	WCLAYILFTRFFYVLGLAAIMQLFFGYFAVHFISNSWLMWLIINLVQMAPISAMVRMYIF	2378
MN996532.2	WFLAYILFTRFFYVLGLAAIMQLFFSYFAVHFISNSWLMWLIINLVQMAPISAMVRMYIF	2385
MN988713.1	WFLAYILFTRFFYVLGLAAIMQLFFSYFAVHFISNSWLMWLIINLVQMAPISAMVRMYIF	2386
MT093571.1	WFLAYILFTRFFYVLGLAAIMQLFFSYFAVHFISNSWLMWLIINLVQMAPISAMVRMYIF	2386
MN996529.1	WFLAYILFTRFFYVLGLAAIMQLFFSYFAVHFISNSWLMWLIINLVQMAPISAMVRMYIF	2386
MT072688.1	WFLAYILFTRFFYVLGLAAIMQLFFSYFAVHFISNSWLMWLIINLVQMAPISAMVRMYIF	2386
NC_045512.2	WFLAYILFTRFFYVLGLAAIMQLFFSYFAVHFISNSWLMWLIINLVQMAPISAMVRMYIF	2386
MN994467.1	WFLAYILFTRFFYVLGLAAIMQLFFSYFAVHFISNSWLMWLIINLVQMAPISAMVRMYIF	2386
MG772933.1	WFLAYILFTRFFYVLGLAAIMQLFFSYFAVHFISNSWLMWLIINLVQMAPISAMVRMYIF	2382
MG772934.1	WFLAYILFTRFFYVLGLAAIMQLFFSYFAVHFISNSWLMWLIINLVQMAPISAMVRMYIF	2360
NC_014470.1	WFLAYILFTRFFYVLGLAALMQLFFGLFATHFVNNSWLMWLIINLVQMAPISAMVRMYIF	2353
GQ153542.1	WLLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2361
DQ022305	WLLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2357
KF569996.1	WFLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
KP886809.1	WFLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
AY278488.2	WVLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
AY485277.1	WVLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
AP006560.1	WVLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
AP006557.1	WVLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
AY274119	WVLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
AY572038.1	WVLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
AY572034.1	WVLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
FJ588686.1	WVLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2170
KY417145.1	WFLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
KY417144.1	WFLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
KY417147.1	WFLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
KY417148.1	WFLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
KY417143.1	WFLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
KT444582.1	WFLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
KC881005.1	WVLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
KC881006.1	WFLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
KF367457.1	WFLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
KY417152.1	WFLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
KY417146.1	WFLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
KY417151.1	WFLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363
KY417142.1	WFLAYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIF	2363

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MW532698.1	LHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2498
MT040336.1	LHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2498
MT040335.1	LHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2498
MT040334.1	LHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2498
MT040333.1	LHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2498
MN996532.2	LHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYIVDSVTVKNGSIHLYFD	2505
MN988713.1	LHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYIVDSVTVKNGSIHLYFD	2506
MT093571.1	LHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYIVDSVTVKNGSIHLYFD	2506
MN996529.1	LHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYIVDSVTVKNGSIHLYFD	2506
MT072688.1	LHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYIVDSVTVKNGSIHLYFD	2506
NC_045512.2	LHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYIVDSVTVKNGSIHLYFD	2506
MN994467.1	LHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYIVDSVTVKNGSIHLYFD	2506
MG772933.1	LHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYIVDSVTVKNGSIHLYFD	2502
MG772934.1	LHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYIVDSVTVKNGSIHLYFD	2480
NC_014470.1	LHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYIVDSVTVKNGSIHLYFD	2473
GQ153542.1	AHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2481
DQ022305	AHNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2477
KF569996.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
KP886809.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
AY278488.2	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
AY485277.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
AP006560.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
AP006557.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
AY274119	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
AY572038.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
AY572034.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
FJ588686.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2290
KY417145.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
KY417144.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
KY417147.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
KY417148.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
KY417143.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
KT444582.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
KC881005.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
KC881006.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
KF367457.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
KY417152.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
KY417146.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
KY417151.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483
KY417142.1	THNWNCVNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSSYVVDSSAVKNGSLHLYFD	2483

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MW532698.1	KAGQKTYERHSLSHFVNLDNLRANNTKGSIPINVIVFDGKSKCDESSARAASVYYSQLMC	2558
MT040336.1	KAGQKTYERHSLSHFVNLDNLRANNTKGSIPINVIVFDGKSKCDESSARAASVYYSQLMC	2558
MT040335.1	KAGQKTYERHSLSHFVNLDNLRANNTKGSIPINVIVFDGKSKCDESSARAASVYYSQLMC	2558
MT040334.1	KAGQKTYERHSLSHFVNLDNLRANNTKGSIPINVIVFDGKSKCDESSARAASVYYSQLMC	2558
MT040333.1	KAGQKTYERHSLSHFVNLDNLRANNTKGSIPINVIVFDGKSKCDESSARAASVYYSQLMC	2558
MN996532.2	KAGQKTYERHSLSHFVNLDNLRASNTKGSPLINVIVFDGKSKCEESSAKSASVYYSQLMC	2565
MN988713.1	KAGQKTYERHSLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCEESSAKSASVYYSQLMC	2566
MT093571.1	KAGQKTYERHSLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCEESSAKSASVYYSQLMC	2566
MN996529.1	KAGQKTYERHSLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCEESSAKSASVYYSQLMC	2566
MT072688.1	KAGQKTYERHSLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCEESSAKSASVYYSQLMC	2566
NC_045512.2	KAGQKTYERHSLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCEESSAKSASVYYSQLMC	2566
MN994467.1	KAGQKTYERHSLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCEESSAKSASVYYSQLMC	2566
MG772933.1	KAGQKTYERHSLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCEESSAKSASVYYSQLMC	2562
MG772934.1	KAGQKTYERHSLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCEESSAKSASVYYSQLMC	2540
NC_014470.1	KAGKLTyerHSLSYFVNLDNLRANNVKGTLPINVIVFDGKSKCEEAAKSASVYYSQLMC	2533
GQ153542.1	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCEESAAPSASVYYSQLMC	2541
DQ022305	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCEESAAPSASVYYSQLMC	2537
KF569996.1	KAGQKTYERHPLSQFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
KP886809.1	KAGQKTYERHPLSHFVNLDNLRGNNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
AY278488.2	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
AY485277.1	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
AP006560.1	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
AP006557.1	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
AY274119	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
AY572038.1	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
AY572034.1	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
FJ588686.1	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2350
KY417145.1	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
KY417144.1	KAGQKTYERHPLSHFVNLDNLRNNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
KY417147.1	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
KY417148.1	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
KY417143.1	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
KT444582.1	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
KC881005.1	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
KC881006.1	KAGQKTYERHPLSHFINLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
KF367457.1	KAGQKTYERHPLSHFINLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
KY417152.1	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
KY417146.1	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
KY417151.1	KAGQKTYERHPLSHFVNLDYLRANNTKGSPLINVIVFDGKSKWDESAAPSASVYYSQLMC	2543
KY417142.1	KAGQKTYERHPLSHFVNLDNLRANNTKGSPLINVIVFDGKSKCDESAAPSASVYYSQLMC	2543
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MW532698.1	QPILLDDQALVSDVGDSEAEVAVKMFDAYVNTFSSTFNVPMDKLKTLIATAETELAKNVSL	2618
MT040336.1	QPILLDDQALVSDVGDSEAEVAVKMFDAYVNTFSSTFNVPMDKLKTLIATAETELAKNVSL	2618
MT040335.1	QPILLDDQALVSDVGDSEAEVAVKMFDAYVNTFSSTFNVPMDKLKTLIATAETELAKNVSL	2618
MT040334.1	QPILLDDQALVSDVGDSEAEVAVKMFDAYVNTFSSTFNVPMDKLKTLIATAETELAKNVSL	2618
MT040333.1	QPILLDDQALVSDVGDSEAEVAVKMFDAYVNTFSSTFNVPMDKLKTLIATAETELAKNVSL	2618
MN996532.2	QPILLDDQALVSDVGDSTEVAVKMFDAYVNTFSSTFNVPMDEKLKTLVATAEAEELAKNVSL	2625
MN988713.1	QPILLDDQALVSDVGDSEAEVAVKMFDAYVNTFSSTFNVPMDEKLKTLVATAEAEELAKNVSL	2626
MT093571.1	QPILLDDQALVSDVGDSEAEVAVKMFDAYVNTFSSTFNVPMDEKLKTLVATAEAEELAKNVSL	2626
MN996529.1	QPILLDDQALVSDVGDSEAEVAVKMFDAYVNTFSSTFNVPMDEKLKTLVATAEAEELAKNVSL	2626
MT072688.1	QPILLDDQALVSDVGDSEAEVAVKMFDAYVNTFSSTFNVPMDEKLKTLVATAEAEELAKNVSL	2626
NC_045512.2	QPILLDDQALVSDVGDSEAEVAVKMFDAYVNTFSSTFNVPMDEKLKTLVATAEAEELAKNVSL	2626
MN994467.1	QPILLDDQALVSDVGDSEAEVAVKMFDAYVNTFSSTFNVPMDEKLKTLVATAEAEELAKNVSL	2626
MG772933.1	QPILLDDQALVSDVGDSEAEVAVKMFDAYVNTFSSTFNVPMDEKLKALVATAEAEELAKNVSL	2622
MG772934.1	QPILLDDQALVSDVGDSEAEVAVKMFDAYVNTFSSTFNVPMDEKLKALVATAEAEELAKNVSL	2600
NC_014470.1	QPILLDDQALVSDVGDSTEVAVKMFDAYVNTFSSTFNVPMDEKLKTLVATAEAEELAKGVSL	2593
GQ153542.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2601
DQ022305	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2597
KF569996.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
KP886809.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
AY278488.2	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
AY485277.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
AP006560.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
AP006557.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
AY274119	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
AY572038.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
AY572034.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
FJ588686.1	QPILLDDQSLVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2410
KY417145.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
KY417144.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
KY417147.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
KY417148.1	QPILLDDQTLVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
KY417143.1	QPILLDDQTLVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
KT444582.1	QPILLDDQTLVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
KC881005.1	QPILLDDQVLVSDVGGSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
KC881006.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
KF367457.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
KY417152.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
KY417146.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
KY417151.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603
KY417142.1	QPILLDDQALVSDVGDSTEVSVMKMFDAYVDTFSATFSVPMDEKLKALVATAHSELAKGVAL	2603

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MW532698.1	DNVLSTFISAARQGFVDSVDVTKDVVECLKISHQSDIEVTGDSNNYMLTYNKVENMTPR	2678
MT040336.1	DNVLSTFISAARQGFVDSVDVTKDVVECLKISHQSDIEVTGDSNNYMLTYNKVENMTPR	2678
MT040335.1	DNVLSTFISAARQGFVDSVDVTKDVVECLKISHQSDIEVTGDSNNYMLTYNKVENMTPR	2678
MT040334.1	DNVLSTFISAARQGFVDSVDVTKDVVECLKISHQSDIEVTGDSNNYMLTYNKVENMTPR	2678
MT040333.1	DNVLSTFISAARQGFVDSVDVTKDVVECLKISHQSDIEVTGDSNNYMLTYNKVENMTPR	2678
MN996532.2	DNVLSTFISAARQGFVDSVDVTKDVVECLKISHQSDIEVTGDSNNYMLTYNKVENMTPR	2685
MN988713.1	DNVLSTFISAARQGFVDSVDVTKDVVECLKISHQSDIEVTGDSNNYMLTYNKVENMTPR	2686
MT093571.1	DNVLSTFISAARQGFVDSVDVTKDVVECLKISHQSDIEVTGDSNNYMLTYNKVENMTPR	2686
MN996529.1	DNVLSTFISAARQGFVDSVDVTKDVVECLKISHQSDIEVTGDSNNYMLTYNKVENMTPR	2686
MT072688.1	DNVLSTFISAARQGFVDSVDVTKDVVECLKISHQSDIEVTGDSNNYMLTYNKVENMTPR	2686
NC_045512.2	DNVLSTFISAARQGFVDSVDVTKDVVECLKISHQSDIEVTGDSNNYMLTYNKVENMTPR	2686
MN994467.1	DNVLSTFISAARQGFVDSVDVTKDVVECLKISHQSDIEVTGDSNNYMLTYNKVENMTPR	2686
MG772933.1	DNVLSTFISAARQGFVDSVDVTKDVVECLKISHQSDIEVTGDSNNYMLTYNKVENMTPR	2682
MG772934.1	DNVLSTFISAARQGFVDSVDVTKDVVECLKISHQSDIEVTGDSNNYMLTYNKVENMTPR	2660
NC_014470.1	DSVLSTFISAARQGFVDSVDVTKDVMECLKSHHSDEITSDSCNNFMLTYNKVENMTPR	2653
GQ153542.1	DGVLSTFMSTARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2661
DQ022305	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2657
KF569996.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
KP886809.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
AY278488.2	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
AY485277.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
AP006560.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
AP006557.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
AY274119	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
AY572038.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
AY572034.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
FJ588686.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2470
KY417145.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
KY417144.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
KY417147.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
KY417148.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
KY417143.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
KT444582.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
KC881005.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
KC881006.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
KF367457.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
KY417152.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
KY417146.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
KY417151.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663
KY417142.1	DGVLSTFVSAARQGVVDTDVDTKDVEIECLKSHHSDEVTGDSNNFMLTYNKVENMTPR	2663

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MW532698.1	DLGACIDCSARHINAQVAKSHNISLIWNIKDFMSLSEQLRKQIRSAAKKNNLPFKLTCAT	2738
MT040336.1	DLGACIDCSARHINAQVAKSHNISLIWNIKDFMSLSEQLRKQIRSAAKKNNLPFKLTCAT	2738
MT040335.1	DLGACIDCSARHINAQVAKSHNISLIWNIKDFMSLSEQLRKQIRSAAKKNNLPFKLTCAT	2738
MT040334.1	DLGACIDCSARHINAQVAKSHNISLIWNIKDFMSLSEQLRKQIRSAAKKNNLPFKLTCAT	2738
MT040333.1	DLGACIDCSARHINAQVAKSHNISLIWNIKDFMSLSEQLRKQIRSAAKKNNLPFKLTCAT	2738
MN996532.2	DLGACIDCSARHINAQVAKSHNIALIWNVKDFMSLSEQLRKQIRSAAKKNNLPFKLTCAT	2745
MN988713.1	DLGACIDCSARHINAQVAKSHNIALIWNVKDFMSLSEQLRKQIRSAAKKNNLPFKLTCAT	2746
MT093571.1	DLGACIDCSARHINAQVAKSHNIALIWNVKDFMSLSEQLRKQIRSAAKKNNLPFKLTCAT	2746
MN996529.1	DLGACIDCSARHINAQVAKSHNIALIWNVKDFMSLSEQLRKQIRSAAKKNNLPFKLTCAT	2746
MT072688.1	DLGACIDCSARHINAQVAKSHNIALIWNVKDFMSLSEQLRKQIRSAAKKNNLPFKLTCAT	2746
NC_045512.2	DLGACIDCSARHINAQVAKSHNIALIWNVKDFMSLSEQLRKQIRSAAKKNNLPFKLTCAT	2746
MN994467.1	DLGACIDCSARHINAQVAKSHNIALIWNVKDFMSLSEQLRKQIRSAAKKNNLPFKLTCAT	2746
MG772933.1	DLGACIDCSARHINAQVAKSHNIALIWNVKDFMSLSEQLRKQIRSAAKKNNLPFR LTCAT	2742
MG772934.1	DLGACIDCSARHINAHVAKSHNIALIWNVKDFMSLSEQLRKQIRSAAKKNNLPFR LTCAT	2720
NC_014470.1	DLGACIDCSARHINAQVAKSHNVSLVWNVKDYMSLSEQLRKQIRSAAKKNNLPFKLTCAT	2713
GQ153542.1	DLGACIDCNARHINAQVAKSHNVSLVWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2721
DQ022305	DLGACIDCNARHINAQVAKSHNVSLVWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2717
KF569996.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
KP886809.1	DLGACIDCNARHINAPVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
AY278488.2	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
AY485277.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
AP006560.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
AP006557.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
AY274119	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
AY572038.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
AY572034.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
FJ588686.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2530
KY417145.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
KY417144.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
KY417147.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
KY417148.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
KY417143.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
KT444582.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
KC881005.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
KC881006.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
KF367457.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
KY417152.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
KY417146.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
KY417151.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
KY417142.1	DLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKKNNIPFR LTCAT	2723
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MW532698.1	TRQVVNVVTTKIALKGGKFVT-NWFKYLLKATLVCVVIACVFYFITPVHVLTKHGDFADE	2797
MT040336.1	TRQVVNVVTTKIALKGGKFVT-NWFKYLLKATLVCVVIACVFYFITPVHVLTKHGDFADE	2797
MT040335.1	TRQVVNVVTTKIALKGGKFVT-NWFKYLLKATLVCVVIACVFYFITPVHVLTKHGDFADE	2797
MT040334.1	TRQVVNVVTTKIALKGGKFVT-NWFKYLLKATLVCVVIACVFYFITPVHVLTKHGDFADE	2797
MT040333.1	TRQVVNVVTTKIALKGGKFVT-NWFKYLLKATLVCVVIACVFYFITPVHVLTKHGDFADE	2797
MN996532.2	TRQVVNVVTTKIALKGGKIVN-NWLKQLIKVTLVFLFVAAIFYLITPVHVMKHTDFSSE	2804
MN988713.1	TRQVVNVVTTKIALKGGKIVN-NWLKQLIKVTLVFLFVAAIFYLITPVHVMKHTDFSSE	2805
MT093571.1	TRQVVNVVTTKIALKGGKIVN-NWLKQLIKVTLVFLFVAAIFYLITPVHVMKHTDFSSE	2805
MN996529.1	TRQVVNVVTTKIALKGGKIVN-NWLKQLIKVTLVFLFVAAIFYLITPVHVMKHTDFSSE	2805
MT072688.1	TRQVVNVVTTKIALKGGKIVN-NWLKQLIKVTLVFLFVAAIFYLITPVHVMKHTDFSSE	2805
NC_045512.2	TRQVVNVVTTKIALKGGKIVN-NWLKQLIKVTLVFLFVAAIFYLITPVHVMKHTDFSSE	2805
MN994467.1	TRQVVNVVTTKIALKGGKIVN-NWLKQLIKVTLVFLFVAAIFYLITPVHVMKHTDFSSE	2805
MG772933.1	TRQVVNVVTTKIALKGGKIVN-NWLKQLIKVTLVFLFITVIFYLITPVHVMFKHNDDFSSE	2801
MG772934.1	TRQVVNVVTTKIALRGGKIVN-NWLKQLIKVTLVFLFITVIFYLITPAHVMFKHNDDFSSE	2779
NC_014470.1	TRQVVNVVTTKISLKGKFVSNNWFRFLKMTLMVLVAFIFYFITPHTLMGHDVFSSE	2773
GQ153542.1	TRQVVNVITTKISLKGKGVVS-TWFKLLKVTLLCVLAALFCYVIMPVHSLSVHDGYTNE	2780
DQ022305	TRQVVNVITTKISLKGKGVVS-TWFKLLKVTLLCVLAALFCYVIMPVHSLSVHDGYTNE	2776
KF569996.1	TRQVVNVITTKISLKGKGVIS-TWFKMLKATLVCVLAALVCYIVMPVHTLSVYDGYTNE	2782
KP886809.1	TRQVVNVITTKISLKGKIVS-TWFKMLKATLLCVLAALVCYIVMPVHTLSIHDGYTNE	2782
AY278488.2	TRQVVNVITTKISLKGKIVS-TCFKMLKATLLCVLAALVCYIVMPLHTLSIHDGYTNE	2782
AY485277.1	TRQVVNVITTKISLKGKIVS-TCFKMLKATLLCVLAALVCYIVMPVHTLSIHDGYTNE	2782
AP006560.1	TRQVVNVITTKISLKGKIVS-TCFKMLKATLLCVLAALVCYIVMPVHTLSIHDGYTNE	2782
AP006557.1	TRQVVNVITTKISLKGKIVS-TCFKMLKATLLCVLAALVCYIVMPVHTLSIHDGYTNE	2782
AY274119	TRQVVNVITTKISLKGKIVS-TCFKMLKATLLCVLAALVCYIVMPVHTLSIHDGYTNE	2782
AY572038.1	TRQVVNVITTKISLKGKIVS-TWFKMLKATLLCVLAALVCYIVMPVHTLSIHDGYTNE	2782
AY572034.1	TRQVVNVITTKISLKGKIVS-TWFKMLKATLLCVLAALVCYIVMPVHTLSIHDGYTNE	2782
FJ588686.1	TRQVVNVITTKISLKGKIVS-TWFKMLKATLLCVLAALVCYIVMPVHTLSAHDGYTNE	2589
KY417145.1	TRQVVNVITTKISLKGKIVS-TWFKMLKATLLCVFAALVCYIVMPVHTLSAHDGYTNE	2782
KY417144.1	TRQVVNVITTKISLKGKIVS-TWFKMLKATLLCVIAALVCYIVMPVHTLSAHDGYTNE	2782
KY417147.1	TRQVVNVITTKISLKGKIVS-TWFKMLKATLLCVFAALVCYIVMPVHTLSAHDGYTNE	2782
KY417148.1	TRQVVNVITTKISLKGKIVS-TWFKMLKATLLCVFAALVCYIVMPVHTLSAHDGYTNE	2782
KY417143.1	TRQVVNVITTKISLKGKIVS-TWFKMLKATLLCVFAALVCYIVMPVHTLSAHDGYTNE	2782
KT444582.1	TRQVVNVITTKISLKGKIVS-TWFKLMFKATLLCVFAALVCYIVMPVHTLSAHDGYTNE	2782
KC881005.1	TRQVVNVITTKISLKGKIVS-TWFKMLKATLLCVFAALVCYIVMPVHTLSAHDGYTNE	2782
KC881006.1	TRQVVNVITTKISLKGKIVS-TWFKMLKATLLCVIATLVCYIVMPVHTLSAHDGYTNE	2782
KF367457.1	TRQVVNVITTKISLKGKIVS-TWFKMLKATLLCVIATLVCYIVMPVHTLSVHDGYTNE	2782
KY417152.1	TRQVVNVITTKISLKGKIVS-TWFKMLKATLLCVFAALVCYIVMPVHTLSAHDGYTNE	2782
KY417146.1	TRQVVNVITTKISLKGKIVS-TWFKMLKATLLCVFAALVCYIVMPVHTLSAHDGYTNE	2782
KY417151.1	TRQVVNVITTKISLKGKIVS-TWFKMLKATLLCVIAALVCYIVMPVHTLSAHDGYTNE	2782
KY417142.1	TRQVVNVITTKISLKGKIVS-TWFKMLKATLLCVFAALVCYIVMPVHTLSAHDGYTNE	2782

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MW532698.1	IIGYKAIEDGVTRDISSNDNCFANKHVGFDSWFSQRGGSYTNDKTCPIVAAVITRDVGfV	2857
MT040336.1	IIGYKAIEDGVTRDISSNDNCFANKHVGFDSWFSQRGGSYTNDKTCPIVAAVITRDVGfV	2857
MT040335.1	IIGYKAIEDGVTRDISSNDNCFANKHVGFDSWFSQRGGSYTNDKTCPIVAAVITRDVGfV	2857
MT040334.1	IIGYKAIEDGVTRDISSNDNCFANKHVGFDSWFSQRGGSYTNDKTCPIVAAVITRDVGfV	2857
MT040333.1	IIGYKAIEDGVTRDISSNDNCFANKHVGFDSWFSQRGGSYTNDKTCPIVAAVITRDVGfV	2857
MN996532.2	IIGYKAIDGGVTRDIASDTDCFANKHADFDTWFSQRGGSYTNDKACPLIAAVITREVGFV	2864
MN988713.1	IIGYKAIDGGVTRDIASDTDCFANKHADFDTWFSQRGGSYTNDKACPLIAAVITREVGFV	2865
MT093571.1	IIGYKAIDGGVTRDIASDTDCFANKHADFDTWFSQRGGSYTNDKACPLIAAVITREVGFV	2865
MN996529.1	IIGYKAIDGGVTRDIASDTDCFANKHADFDTWFSQRGGSYTNDKACPLIAAVITREVGFV	2865
MT072688.1	IIGYKAIDGGVTRDIASDTDCFANKHADFDTWFSQRGGSYTNDKACPLIAAVITREVGFV	2865
NC_045512.2	IIGYKAIDGGVTRDIASDTDCFANKHADFDTWFSQRGGSYTNDKACPLIAAVITREVGFV	2865
MN994467.1	IIGYKAIDGGVTRDIASDTDCFANKHADFDTWFSQRGGSYTNDKACPLIAAVITREVGFV	2865
MG772933.1	IIGYKAIDGGVTRDIASDTDCFANKHADFDWFSQRGGSYTNDKACPLVAAVITREVGFV	2861
MG772934.1	IIGYKAIDGGVTRDIASDTDCFANKHADFDWFSQRGGSYTNDKACPLIAAVITREVGFV	2839
NC_014470.1	IIGYKAIHNGVTRDVLTTDDCFANKHGTGFDHWSQRGGSYRNDKTCPIVAAVITREVGFV	2833
GQ153542.1	IIGYKAIQDGVTRDIVSTDDCFANKHAGFDSWFSQRGGSYRNNKNCPPVAAIITREIGFI	2840
DQ022305	IIGYKAIQDGVTRDIVSTDDCFANKHAGFDSWFSQRGGSYRNDKNCPPVAAIITREIGFI	2836
KF569996.1	IIGYKAIQDGVTRDILSTDDCFANKHAGFDTWFSQRGGSYRNDKSCPVVAAIITREIGFI	2842
KP886809.1	IIGYKAIQDGVTRDIVSTDDCFANKHAGFDWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
AY278488.2	IIGYKAIQDGVTRDIIISTDDCFANKHAGFDWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
AY485277.1	IIGYKAIQDGVTRDIIISTDDCFANKHAGFDWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
AP006560.1	IIGYKAIQDGVTRDIIISTDDCFANKHAGFDWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
AP006557.1	IIGYKAIQDGVTRDIIISTDDCFANKHAGFDWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
AY274119	IIGYKAIQDGVTRDIIISTDDCFANKHAGFDWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
AY572038.1	IIGYKAIQDGVTRDIIISTDDCFANKHAGFDWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
AY572034.1	IIGYKAIQDGVTRDIIISTDDCFANKHAGFDWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
FJ588686.1	VIGYKAIQDGVTRDIVSTDDCFANKHAGFDSWFSQRGGSYKNDKSCPVVAAIITREIGFI	2649
KY417145.1	IIGYKAIQDGVTRDIVSTDDCFANKHAGFDSWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
KY417144.1	IIGYKAIQDGVTRDIVSTDDCFANKHAGFDSWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
KY417147.1	IIGYKAIQDGVTRDIVSTDDCFANKHAGFDSWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
KY417148.1	IIGYKAIQDGVTRDIVSTDDCFANKHAGFDSWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
KY417143.1	IIGYKAIQDGVTRDIVSTDDCFANKHAGFDSWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
KT444582.1	IIGYKAIQDGVTRDIVSTDDCFANKHAGFDSWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
KC881005.1	IIGYKAIQDGVTRDIIISTDDCFANKHAGFDSWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
KC881006.1	IIGYKAIQDGVTRDIIISTDDCFANKHAGFDSWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
KF367457.1	IIGYKAIQDGVTRDIVSTDDCFANKHAGFDSWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
KY417152.1	IIGYKAIQDGVTRDIVSTDDCFANKHAGFDSWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
KY417146.1	IIGYKAIQDGVTRDIVSTDDCFANKHAGFDSWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
KY417151.1	IIGYKAIQDGVTRDIVSTDDCFANKHAGFDSWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842
KY417142.1	IIGYKAIQDGVTRDIVSTDDCFANKHAGFDSWFSQRGGSYKNDKSCPVVAAIITREIGFI	2842

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MW532698.1	VPGLPGTIFRTLSGDFLHFLPRVFSAVGNICYTPSKLIEYTD FATSACVLAAECTIFKDA	2917
MT040336.1	VPGLPGTIFRTLSGDFLHFLPTVISAVGNICYTPSKLIEYTD FATSACVLAAECTIFKDA	2917
MT040335.1	VPGLPGTIFRTLSGDFLHFLPRVFSAVGNICYTPSKLIEYTD FATSACVLAAECTIFKDA	2917
MT040334.1	VPGLPGTIFRTLSGDFLHFLPRVFSAVGNICYTPSKLIEYTD FATSACVLAAECTIFKDA	2917
MT040333.1	VPGLPGTIFRTLSGDFLHFLPRVFSAVGNICYTPSKLIEYTD FATSACVLAAECTIFKDA	2917
MN996532.2	VPGLPGTILRTTNGDFLHFLPRVFSAVGNICYTPSKLIEYTD FATSACVLAAECTIFKDA	2924
MN988713.1	VPGLPGTILRTTNGDFLHFLPRVFSAVGNICYTPSKLIEYTD FATSACVLAAECTIFKDA	2925
MT093571.1	VPGLPGTILRTTNGDFLHFLPRVFSAVGNICYTPSKLIEYTD FATSACVLAAECTIFKDA	2925
MN996529.1	VPGLPGTILRTTNGDFLHFLPRVFSAVGNICYTPSKLIEYTD FATSACVLAAECTIFKDA	2925
MT072688.1	VPGLPGTILRTTNGDFLHFLPRVFSAVGNICYTPSKLIEYTD FATSACVLAAECTIFKDA	2925
NC_045512.2	VPGLPGTILRTTNGDFLHFLPRVFSAVGNICYTPSKLIEYTD FATSACVLAAECTIFKDA	2925
MN994467.1	VPGLPGTILRTTNGDFLHFLPRVFSAVGNICYTPSKLIEYTD FATSACVLAAECTIFKDA	2925
MG772933.1	VPGLPGTILRTINGDFLHFLPRVFSAVGNICYTPSKLIEYTD FATSACVLAAECTIFKDA	2921
MG772934.1	VPGLPGTILRTINGDFLHFLPRVFSAVGNICYTPSKLIEYTD FATSACVLAAECTIFKDS	2899
NC_014470.1	VPGLPGTVRRASNGDFLHFLPRVFSAVGNICYTPAKLIEYTD FATSACVLAAECTIFKDA	2893
GQ153542.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FSTSACVLAAECTIFKDA	2900
DQ022305	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2896
KF569996.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
KP886809.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
AY278488.2	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
AY485277.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
AP006560.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
AP006557.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
AY274119	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
AY572038.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
AY572034.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
FJ588686.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2709
KY417145.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
KY417144.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
KY417147.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
KY417148.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
KY417143.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
KT444582.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
KC881005.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
KC881006.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
KF367457.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
KY417152.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
KY417146.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
KY417151.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902
KY417142.1	VPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSD FATSACVLAAECTIFKDA	2902

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MW532698.1	AGKPVPPYCYDTNVLEGSVPYESLRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDSEYCR	2977
MT040336.1	AGKPVPPYCYDTNVLEGSVPYESLRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDSEYCR	2977
MT040335.1	AGKPVPPYCYDTNVLEGSVPYESLRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDSEYCR	2977
MT040334.1	AGKPVPPYCYDTNVLEGSVPYESLRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDSEYCR	2977
MT040333.1	AGKPVPPYCYDTNVLEGSVPYESLRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDSEYCR	2977
MN996532.2	SGKPVPPYCYDTNVLEGSVAYESLRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDSEYCR	2984
MN988713.1	SGKPVPPYCYDTNVLEGSVAYESLRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDSEYCR	2985
MT093571.1	SGKPVPPYCYDTNVLEGSVAYESLRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDSEYCR	2985
MN996529.1	SGKPVPPYCYDTNVLEGSVAYESLRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDSEYCR	2985
MT072688.1	SGKPVPPYCYDTNVLEGSVAYESLRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDSEYCR	2985
NC_045512.2	SGKPVPPYCYDTNVLEGSVAYESLRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDSEYCR	2985
MN994467.1	SGKPVPPYCYDTNVLEGSVAYESLRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDSEYCR	2985
MG772933.1	SGKPVPPYCYDTNVLEGSVAYESLRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDSEYCR	2981
MG772934.1	SGKPVPPYCYDTNVLEGSVAYESLRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDSEYCR	2959
NC_014470.1	QGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDSEYCR	2953
GQ153542.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2960
DQ022305	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2956
KF569996.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
KP886809.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
AY278488.2	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
AY485277.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
AP006560.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
AP006557.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
AY274119	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
AY572038.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
AY572034.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
FJ588686.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2769
KY417145.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
KY417144.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
KY417147.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
KY417148.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
KY417143.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
KT444582.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
KC881005.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
KC881006.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
KF367457.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
KY417152.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
KY417146.1	KGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
KY417151.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962
KY417142.1	MGKPVPPYCYDTNLLSGISYSELRPDTRYVLMDSIIQFPNTYLEGSVRVVTTFDAEYCR	2962

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MW532698.1	HGTCEKSEAGICVSTSGRWVLNNDYYRSLPGVFCGVDSVNLLTNMFTPLIQPIGALDISA	3037
MT040336.1	HGTCEKSEAGICVSTSGRWVLNNDYYRSLPGVFCGVDSVNLLTNMFTPLIQPIGALDISA	3037
MT040335.1	HGTCEKSEAGICVSTSGRWVLNNDYYRSLPGVFCGVDSVNLLTNMFTPLIQPIGALDISA	3037
MT040334.1	HGTCEKSEAGICVSTSGRWVLNNDYYRSLPGVFCGVDSVNLLTNMFTPLIQPIGALDISA	3037
MT040333.1	HGTCEKSEAGICVSTSGRWVLNNDYYRSLPGVFCGVDSVNLLTNMFTPLIQPIGALDISA	3037
MN996532.2	HGTCERSEAGVCVSTSGRWVLNNDYYRSLPGVFCGVDAVNLLTNMFTPLIQPIGALDISA	3044
MN988713.1	HGTCERSEAGVCVSTSGRWVLNNDYYRSLPGVFCGVDAVNLLTNMFTPLIQPIGALDISA	3045
MT093571.1	HGTCERSEAGVCVSTSGRWVLNNDYYRSLPGVFCGVDAVNLLTNMFTPLIQPIGALDISA	3045
MN996529.1	HGTCERSEAGVCVSTSGRWVLNNDYYRSLPGVFCGVDAVNLLTNMFTPLIQPIGALDISA	3045
MT072688.1	HGTCERSEAGVCVSTSGRWVLNNDYYRSLPGVFCGVDAVNLLTNMFTPLIQPIGALDISA	3045
NC_045512.2	HGTCERSEAGVCVSTSGRWVLNNDYYRSLPGVFCGVDAVNLLTNMFTPLIQPIGALDISA	3045
MN994467.1	HGTCERSEAGVCVSTSGRWVLNNDYYRSLPGVFCGVDAVNLLTNMFTPLIQPIGALDISA	3045
MG772933.1	HGTCERSEAGICVSTSGRWVLNNDYYRSLPGVFCGVDAVNLLTNMFTPLIQPIGALDISA	3041
MG772934.1	HGTCERSEAGICVSTSGRWVLNNDYYRSLPGVFCGVDAVNLLTNMFTPLIQPIGALDISA	3019
NC_014470.1	HGTCERSEAGVCLSTSGRWVLNNDYYRSLPGVFCGADASDLLFNIFTPLVRPVGTLDISA	3013
GQ153542.1	HGTCERSEAGVCLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3020
DQ022305	HGTCERSEVGVCLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3016
KF569996.1	HGTCERSEAGICLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
KP886809.1	HGTCERSEVVICLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
AY278488.2	HGTCERSEVVICLSTSGRWVLNNEHYRALSGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
AY485277.1	HGTCERSEVVICLSTSGRWVLNNEHYRALSGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
AP006560.1	HGTCERSEVVICLSTSGRWVLNNEHYRALSGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
AP006557.1	HGTCERSEVVICLSTSGRWVLNNEHYRALSGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
AY274119	HGTCERSEVVICLSTSGRWVLNNEHYRALSGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
AY572038.1	HGTCERSEAGICLSTSGRWVLNNEHYRALSGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
AY572034.1	HGTCERSEAGICLSTSGRWVLNNEHYRALSGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
FJ588686.1	HGTCERSEAGICLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	2829
KY417145.1	HGTCERSEAGICLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
KY417144.1	HGTCERSEAGICLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
KY417147.1	HGTCERSEAGICLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
KY417148.1	HGTCERSEAGICLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
KY417143.1	HGTCERSEAGICLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
KT444582.1	HGTCERSEAGICLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
KC881005.1	HGTCERSEAGICLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
KC881006.1	HGTCERSEAGICLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
KF367457.1	HGTCERSEAGICLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
KY417152.1	HGTCERSEAGICLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
KY417146.1	HGTCERSEAGICLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
KY417151.1	HGTCERSEAGICLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022
KY417142.1	HGTCERSEAGICLSTSGRWVLNNEHYRALPGVFCGV DAMNLIANIFTPLVQPVGALDVSA	3022

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MW532698.1	SIVAGGLVAIFVTCLAYYFMRFRRAFGEYSHVVAFNLLFLMSFTVLCLTPVYSFLPGVY	3097
MT040336.1	SIVAGGLVAIFVTCLAYYFMRFRRAFGEYSHVVAFNLLFLMSFTVLCLTPVYSFLPGVY	3097
MT040335.1	SIVAGGLVAIFVTCLAYYFMRFRRAFGEYSHVVAFNLLFLMSFTVLCLTPVYSFLPGVY	3097
MT040334.1	SIVAGGLVAIFVTCLAYYFMRFRRAFGEYSHVVAFNLLFLMSFTVLCLTPVYSFLPGVY	3097
MT040333.1	SIVAGGLVAIFVTCLAYYFMRFRRAFGEYSHVVAFNLLFLMSFTVLCLTPVYSFLPGVY	3097
MN996532.2	SIVAGGIVAIVTCLAYYFMRFRRAFGEYSHVVAFNLLFLMSFTVLCLTPVYSFLPGVY	3104
MN988713.1	SIVAGGIVAIVTCLAYYFMRFRRAFGEYSHVVAFNLLFLMSFTVLCLTPVYSFLPGVY	3105
MT093571.1	SIVAGGIVAIVTCLAYYFMRFRRAFGEYSHVVAFNLLFLMSFTVLCLTPVYSFLPGVY	3105
MN996529.1	SIVAGGIVAIVTCLAYYFMRFRRAFGEYSHVVAFNLLFLMSFTVLCLTPVYSFLPGVY	3105
MT072688.1	SIVAGGIVAIVTCLAYYFMRFRRAFGEYSHVVAFNLLFLMSFTVLCLTPVYSFLPGVY	3105
NC_045512.2	SIVAGGIVAIVTCLAYYFMRFRRAFGEYSHVVAFNLLFLMSFTVLCLTPVYSFLPGVY	3105
MN994467.1	SIVAGGIVAIVTCLAYYFMRFRRAFGEYSHVVAFNLLFLMSFTVLCLTPVYSFLPGVY	3105
MG772933.1	SIVAGGVVAIIIVTCLAYYFMRFRRAFGEYSHVVAFNLLFFMSFTVLCLTPVYSFLPGVY	3101
MG772934.1	SIVAGGVVAIIIVTCLAYYFMRFRRAFGEYSHVVAFNLLFFMSFTVLCLTPVYSFLPGVY	3079
NC_014470.1	SVVAGGIIAILVTCVAYYFMKFRRAFGEYNHVVAANALLFLLSFTILCLTPAYTFLPGIY	3073
GQ153542.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3080
DQ022305	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3076
KF569996.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3082
KP886809.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3082
AY278488.2	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLVPAYSFLPGVY	3082
AY485277.1	SVVAGGIIAILVTCAAYYFMKFRRVFGEYNHVVAANALLFLMSFTILCLVPAYSFLPGVY	3082
AP006560.1	SVVAGGIIAILVTCAAYYFMKFRRVFGEYNHVVAANALLFLMSFTILCLVPAYSFLPGVY	3082
AP006557.1	SVVAGGIIAILVTCAAYYFMKFRRVFGEYNHVVAANALLFLMSFTILCLVPAYSFLPGVY	3082
AY274119	SVVAGGIIAILVTCAAYYFMKFRRVFGEYNHVVAANALLFLMSFTILCLVPAYSFLPGVY	3082
AY572038.1	SAVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3082
AY572034.1	SAVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3082
FJ588686.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFFMSFTILCLAPAYSFLPGVY	2889
KY417145.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3082
KY417144.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLVLMSTILCLAPAYSFLPGVY	3082
KY417147.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3082
KY417148.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3082
KY417143.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3082
KT444582.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3082
KC881005.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3082
KC881006.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3082
KF367457.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3082
KY417152.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3082
KY417146.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLTPAYSFLPGVY	3082
KY417151.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3082
KY417142.1	SVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVY	3082

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MW532698.1	SVFYLYLTFYLTNDVSLAHVQWMVMFTPLVPFWITIVYVICISTKHICYWFFSNYLRRRV	3157
MT040336.1	SVFYLYLTFYLTNDVSLAHVQWMVMFTPLVPFWITIVYVICISTKHICYWFFSNYLRRRV	3157
MT040335.1	SVFYLYLTFYLTNDVSLAHVQWMVMFTPLVPFWITIVYVICISTKHICYWFFSNYLRRRV	3157
MT040334.1	SVFYLYLTFYLTNDVSLAHVQWMVMFTPLVPFWITIVYVICISTKHICYWFFSNYLRRRV	3157
MT040333.1	SVFYLYLTFYLTNDVSLAHVQWMVMFTPLVPFWITIVYVICISTKHICYWFFSNYLRRRV	3157
MN996532.2	SVIYLYLTFYLTNDVSLAHIQWMVMFTPLVPFWITIVYVICISTKHIFYWFFSNYLKRRV	3164
MN988713.1	SVIYLYLTFYLTNDVSLAHIQWMVMFTPLVPFWITIAIYIICISTKHIFYWFFSNYLKRRV	3165
MT093571.1	SVIYLYLTFYLTNDVSLAHIQWMVMFTPLVPFWITIAIYIICISTKHIFYWFFSNYLKRRV	3165
MN996529.1	SVIYLYLTFYLTNDVSLAHIQWMVMFTPLVPFWITIAIYIICISTKHIFYWFFSNYLKRRV	3165
MT072688.1	SVIYLYLTFYLTNDVSLAHIQWMVMFTPLVPFWITIAIYIICISTKHIFYWFFSNYLKRRV	3165
NC_045512.2	SVIYLYLTFYLTNDVSLAHIQWMVMFTPLVPFWITIAIYIICISTKHIFYWFFSNYLKRRV	3165
MN994467.1	SVIYLYLTFYLTNDVSLAHIQWMVMFTPLVPFWITIAIYIICISTKHIFYWFFSNYLKRRV	3165
MG772933.1	SVIYLYLTFYLTNDVSLAHIQWMVMFTPLVPFWMTIVYVICISTKHIFYWFFSNYLKRRV	3161
MG772934.1	SVIYLYLTFYLTNDVSLAHIQWMVMFTPLVPFWMTIVYVICISTKHIFYWFFSNYLKRRV	3139
NC_014470.1	SLLYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITVYVVCISLKHCHWFFSNYLKRRV	3133
GQ153542.1	SIFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHFWFFSNYLKRRV	3140
DQ022305	SIFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHFWFFSNYLKRRV	3136
KF569996.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
KP886809.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYAFCSLKHCHWFFSNYLKRRV	3142
AY278488.2	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
AY485277.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
AP006560.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
AP006557.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
AY274119	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
AY572038.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
AY572034.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
FJ588686.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	2949
KY417145.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
KY417144.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
KY417147.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
KY417148.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
KY417143.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITVYVFCISLKHCHWFFSNYLKRRV	3142
KT444582.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITVYVFCISLKHCHWFFSNYLKRRV	3142
KC881005.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
KC881006.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
KF367457.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
KY417152.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITVYVFCISLKHCHWFFSNYLKRRV	3142
KY417146.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
KY417151.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142
KY417142.1	SVFYLYLTFYFTNDVSLAHLQWFMFSPIVPFWITAIYVFCISLKHCHWFFSNYLKRRV	3142

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MW532698.1	VFNGTSFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGAMDTS	3217
MT040336.1	VFNGTSFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGAMDTS	3217
MT040335.1	VFNGTSFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGAMDTS	3217
MT040334.1	VFNGTSFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGAMDTS	3217
MT040333.1	VFNGTSFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGAMDTS	3217
MN996532.2	VFNGVSFSTFEEAALCTFLLNKEMYLKLRSDVLLPLTQYNRYLALYNKYKYFSGAMDTS	3224
MN988713.1	VFNGVSFSTFEEAALCTFLLNKEMYLKLRSDVLLPLTQYNRYLALYNKYKYFSGAMDTS	3225
MT093571.1	VFNGVSFSTFEEAALCTFLLNKEMYLKLRSDVLLPLTQYNRYLALYNKYKYFSGAMDTS	3225
MN996529.1	VFNGVSFSTFEEAALCTFLLNKEMYLKLRSDVLLPLTQYNRYLALYNKYKYFSGAMDTS	3225
MT072688.1	VFNGVSFSTFEEAALCTFLLNKEMYLKLRSDVLLPLTQYNRYLALYNKYKYFSGAMDTS	3225
NC_045512.2	VFNGVSFSTFEEAALCTFLLNKEMYLKLRSDVLLPLTQYNRYLALYNKYKYFSGAMDTS	3225
MN994467.1	VFNGVSFSTFEEAALCTFLLNKEMYLKLRSDVLLPLTQYNRYLALYNKYKYFSGAMDTS	3225
MG772933.1	VFNGVSFSTFEEAALCTFLLNKEMYLKLRSDVLLPLTQYNRYLALYNKYKYFSGAMDTS	3221
MG772934.1	VFNGVSFSTFEEAALCTFLLNKEMYLKLRSDVLLPLTQYNRYLALYNKYKYFSGAMDTS	3199
NC_014470.1	VFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3193
GQ153542.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3200
DQ022305	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3196
KF569996.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
KP886809.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
AY278488.2	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGVLDTS	3202
AY485277.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
AP006560.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
AP006557.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
AY274119	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
AY572038.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
AY572034.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
FJ588686.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3009
KY417145.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
KY417144.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
KY417147.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
KY417148.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
KY417143.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
KT444582.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
KC881005.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
KC881006.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
KF367457.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
KY417152.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
KY417146.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
KY417151.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202
KY417142.1	MFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLLPLTQYNRYLALYNKYKYFSGALDTS	3202

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MW532698.1	YREAACCHLAKALNDFSNSGSDVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3277
MT040336.1	YREAACCHLAKALNDFSNSGSDVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3277
MT040335.1	YREAACCHLAKALNDFSNSGSDVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3277
MT040334.1	YREAACCHLAKALNDFSNSGSDVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3277
MT040333.1	YREAACCHLAKALNDFSNSGSDVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3277
MN996532.2	YREAACCHLAKALNDFSNSGSDVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3284
MN988713.1	YREAACCHLAKALNDFSNSGSDVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3285
MT093571.1	YREAACCHLAKALNDFSNSGSDVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3285
MN996529.1	YREAACCHLAKALNDFSNSGSDVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3285
MT072688.1	YREAACCHLAKALNDFSNSGSDVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3285
NC_045512.2	YREAACCHLAKALNDFSNSGSDVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3285
MN994467.1	YREAACCHLAKALNDFSNSGSDVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3285
MG772933.1	YREAACCHLAKALNDFSNSGSDVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3281
MG772934.1	YREAACCHLAKALNDFSNSGSDVLYQPPQTSITSAILQSGFRKMAFPSGKVEGCMVQVTC	3259
NC_014470.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3253
GQ153542.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3260
DQ022305	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3256
KF569996.1	YREAACCHLAKALNDFSNSGSDVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
KP886809.1	YREAACCHLAKALNDFSNSGSDVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
AY278488.2	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
AY485277.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
AP006560.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
AP006557.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
AY274119	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
AY572038.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
AY572034.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
FJ588686.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3069
KY417145.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
KY417144.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
KY417147.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
KY417148.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
KY417143.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
KT444582.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
KC881005.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
KC881006.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
KF367457.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
KY417152.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
KY417146.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
KY417151.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
KY417142.1	YREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTC	3262
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MT040336.1	GTTTLNGLWLDDVVYCPRHVICTAEDMLNPNYEDLLIRKSNHNFLVQAGNVHLRVIGHSM	3337
MT040335.1	GTTTLNGLWLDDVVYCPRHVICTAEDMLNPNYEDLLIRKSNHNFLVQAGNVHLRVIGHSM	3337
MT040334.1	GTTTLNGLWLDDVVYCPRHVICTAEDMLNPNYEDLLIRKSNHNFLVQAGNVHLRVIGHSM	3337
MT040333.1	GTTTLNGLWLDDVVYCPRHVICTAEDMLNPNYEDLLIRKSNHNFLVQAGNVHLRVIGHSM	3337
MN996532.2	GTTTLNGLWLDDVVYCPRHVICTSEDMLNPNYEDLLIRKSNHNFLVQAGNVQLRVIGHSM	3344
MN988713.1	GTTTLNGLWLDDVVYCPRHVICTSEDMLNPNYEDLLIRKSNHNFLVQAGNVQLRVIGHSM	3345
MT093571.1	GTTTLNGLWLDDVVYCPRHVICTSEDMLNPNYEDLLIRKSNHNFLVQAGNVQLRVIGHSM	3345
MN996529.1	GTTTLNGLWLDDVVYCPRHVICTSEDMLNPNYEDLLIRKSNHNFLVQAGNVQLRVIGHSM	3345
MT072688.1	GTTTLNGLWLDDVVYCPRHVICTSEDMLNPNYEDLLIRKSNHNFLVQAGNVQLRVIGHSM	3345
NC_045512.2	GTTTLNGLWLDDVVYCPRHVICTSEDMLNPNYEDLLIRKSNHNFLVQAGNVQLRVIGHSM	3345
MN994467.1	GTTTLNGLWLDDVVYCPRHVICTSEDMLNPNYEDLLIRKSNHNFLVQAGNVQLRVIGHSM	3345
MG772933.1	GTTTLNGLWLDDVVYCPRHVICTSEDMLNPNYEDLLIRKSNHNFLVQAGNVQLRVVGHSM	3341
MG772934.1	GTTTLNGLWLDDVVYCPRHVICTSEDMLNPNYEDLLIRKSNHNFLVQAGNVQLRVVGHSM	3319
NC_014470.1	GTTTLNGLWLDDVVYCPRHVICTLEDMLNPNYEDLLIRKSNHNFLVQAGNVQLRVIGHMT	3313
GQ153542.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3320
DQ022305	GTTTLNGLWLDDTVYCPRHVVCTAEDMLNPNYDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3316
KF569996.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
KP886809.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
AY278488.2	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
AY485277.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKANHSFLVQAGNVQLRVIGHSM	3322
AP006560.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
AP006557.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
AY274119	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
AY572038.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
AY572034.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
FJ588686.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3129
KY417145.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
KY417144.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
KY417147.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
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KY417143.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
KT444582.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
KC881005.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
KC881006.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
KF367457.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
KY417152.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
KY417146.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
KY417151.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322
KY417142.1	GTTTLNGLWLDDTVYCPRHVICTAEDMLNPNYEDLLIRKSNHNSFLVQAGNVQLRVIGHSM	3322

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MW532698.1	QNCVLKLVDAANPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNFTIKGSFLN	3397
MT040336.1	QNCVLKLVDAANPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNFTIKGSFLN	3397
MT040335.1	QNCVLKLVDAANPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNFTIKGSFLN	3397
MT040334.1	QNCVLKLVDAANPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNFTIKGSFLN	3397
MT040333.1	QNCVLKLVDAANPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNFTIKGSFLN	3397
MN996532.2	QNCVLKLVDTANTKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNFTIKGSFLN	3404
MN988713.1	QNCVLKLVDTANPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNFTIKGSFLN	3405
MT093571.1	QNCVLKLVDTANPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNFTIKGSFLN	3405
MN996529.1	QNCVLKLVDTANPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNFTIKGSFLN	3405
MT072688.1	QNCVLKLVDTANPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNFTIKGSFLN	3405
NC_045512.2	QNCVLKLVDTANPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNFTIKGSFLN	3405
MN994467.1	QNCVLKLVDTANPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNFTIKGSFLN	3405
MG772933.1	QNCVLKLVDTANPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNFTIKGSFLN	3401
MG772934.1	QNCVLKLVDTANPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNFTIKGSFLN	3379
NC_014470.1	QNCVLKLVDTANPKTPKYKFVRIQPGQTFSVLACYNGAPSGVYQCAMRSNHTIKGSFLN	3373
GQ153542.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNYTIKGSFLN	3380
DQ022305	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3376
KF569996.1	QNCLLRLKVDTSNPKTPKYKFVHIQPGQTFSVLACYNGSPSGVYQCAMRPNYTIKGSFLN	3382
KP886809.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
AY278488.2	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
AY485277.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
AP006560.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
AP006557.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
AY274119	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
AY572038.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
AY572034.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
FJ588686.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRSNHTIKGSFLN	3189
KY417145.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
KY417144.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
KY417147.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
KY417148.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
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KT444582.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
KC881005.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
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KF367457.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
KY417152.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
KY417146.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
KY417151.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382
KY417142.1	QNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLN	3382

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MW532698.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEGTFFYGPFFVDRQTAQAAGD'TVITI	3457
MT040336.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEGTFFYGPFFVDRQTAQAAGD'TVITI	3457
MT040335.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEGTFFYGPFFVDRQTAQAAGD'TVITI	3457
MT040334.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEGTFFYGPFFVDRQTAQAAGD'TVITI	3457
MT040333.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEGTFFYGPFFVDRQTAQAAGD'TVITI	3457
MN996532.2	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEGTFFYGPFFVDRQTAQAAGD'TTITV	3464
MN988713.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEGNFYGPFFVDRQTAQAAGD'TTITV	3465
MT093571.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEGNFYGPFFVDRQTAQAAGD'TTITV	3465
MN996529.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEGNFYGPFFVDRQTAQAAGD'TTITV	3465
MT072688.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEGNFYGPFFVDRQTAQAAGD'TTITV	3465
NC_045512.2	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEGNFYGPFFVDRQTAQAAGD'TTITV	3465
MN994467.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEGNFYGPFFVDRQTAQAAGD'TTITV	3465
MG772933.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEGTFFYGPFFVDRQTAQAAGD'TTITV	3461
MG772934.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEGTFFYGPFFVDRQTAQAAGD'TTITV	3439
NC_014470.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEGNFYGPFFVDRQTAQAAGD'TTITL	3433
GQ153542.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3440
DQ022305	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3436
KF569996.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
KP886809.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
AY278488.2	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
AY485277.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
AP006560.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
AP006557.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
AY274119	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
AY572038.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
AY572034.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
FJ588686.1	GSCGSVGFNVDDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3249
KY417145.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
KY417144.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
KY417147.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
KY417148.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
KY417143.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
KT444582.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
KC881005.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TAITL	3442
KC881006.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
KF367457.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFIDRQTAQAAGD'TTITL	3442
KY417152.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
KY417146.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
KY417151.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
KY417142.1	GSCGSVGFNIDYDCVSFCYMHMMELPTGVHAGTDLEKFGYGPFFVDRQTAQAAGD'TTITL	3442
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MW532698.1	NVLAWLYAAVINGDRWFLNRYTTTTLNDFNLVAMKFNYEPLTQDHVDILGPLSAQTGI AVL	3517
MT040336.1	NVLAWLYAAVINGDRWFLNRYTTTTLNDFNLVAMKFNYEPLTQDHVDILGPLSAQTGI AVL	3517
MT040335.1	NVLAWLYAAVINGDRWFLNRYTTTTLNDFNLVAMKFNYEPLTQDHVDILGPLSAQTGI AVL	3517
MT040334.1	NVLAWLYAAVINGDRWFLNRYTTTTLNDFNLVAMKFNYEPLTQDHVDILGPLSAQTGI AVL	3517
MT040333.1	NVLAWLYAAVINGDRWFLNRYTTTTLNDFNLVAMKFNYEPLTQDHVDILGPLSAQTGI AVL	3517
MN996532.2	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3524
MN988713.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3525
MT093571.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3525
MN996529.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3525
MT072688.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3525
NC_045512.2	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3525
MN994467.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3525
MG772933.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTDQHLDILGPLSAQTGI AVL	3521
MG772934.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHL DILGPLSAQTGI AVL	3499
NC_014470.1	NVLAWLYAAVINGERWFLNRFTTTTLNDFNLVAMKYNIEPLTQQVDILGPLSAQTGVAVM	3493
GQ153542.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3500
DQ022305	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTDQHVDILGPLSAQTGI AVL	3496
KF569996.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
KP886809.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
AY278488.2	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
AY485277.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
AP006560.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
AP006557.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
AY274119	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
AY572038.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
AY572034.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
FJ588686.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3309
KY417145.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
KY417144.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
KY417147.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
KY417148.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
KY417143.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
KT444582.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
KC881005.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
KC881006.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
KF367457.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
KY417152.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
KY417146.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
KY417151.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
KY417142.1	NVLAWLYAAVINGDRWFLNRFTTTTLNDFNLVAMKYNIEPLTQDHVDILGPLSAQTGI AVL	3502
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MW532698.1	DMCASLKELLQNGVNGRTILGSAILEDEFTPFDDVVQRCSGVTFQSAIKRTRVKGTHHWLLL	3577
MT040336.1	DMCASLKELLQNGMNGRTILGSAILEDEFTPFDDVVQRCSGVTFQSAIKRTRVKGTHHWLLL	3577
MT040335.1	DMCASLKELLQNGMNGRTILGSAILEDEFTPFDDVVQRCSGVTFQSAIKRTRVKGTHHWLLL	3577
MT040334.1	DMCASLKELLQNGMNGRTILGSAILEDEFTPFDDVVQRCSGVTFQSAIKRTRVKGTHHWLLL	3577
MT040333.1	DMCASLKELLQNGMNGRTILGSAILEDEFTPFDDVVQRCSGVTFQSAIKRTRVKGTHHWLLL	3577
MN996532.2	DMCASLKELLQNGMNGRTILGSALLEDEFTPFDDVVQRCSGVTFQSAVKRTIKGTHHWLLL	3584
MN988713.1	DMCASLKELLQNGMNGRTILGSALLEDEFTPFDDVVQRCSGVTFQSAVKRTIKGTHHWLLL	3585
MT093571.1	DMCASLKELLQNGMNGRTILGSALLEDEFTPFDDVVQRCSGVTFQSAVKRTIKGTHHWLLL	3585
MN996529.1	DMCASLKELLQNGMNGRTILGSALLEDEFTPFDDVVQRCSGVTFQSAVKRTIKGTHHWLLL	3585
MT072688.1	DMCASLKELLQNGMNGRTILGSALLEDEFTPFDDVVQRCSGVTFQSAVKRTIKGTHHWLLL	3585
NC_045512.2	DMCASLKELLQNGMNGRTILGSALLEDEFTPFDDVVQRCSGVTFQSAVKRTIKGTHHWLLL	3585
MN994467.1	DMCASLKELLQNGMNGRTILGSALLEDEFTPFDDVVQRCSGVTFQSAVKRTIKGTHHWLLL	3585
MG772933.1	DMCASLKELLQNGMNGRTILGSALLEDEFTPFDDVVQRCSGVTFQSAVKRTIKGTHHWLLL	3581
MG772934.1	DMCASLKELLQNGMNGRTILGSALLEDEFTPFDDVVQRCSGVTFQSAVKRTIKGTHHWLLL	3559
NC_014470.1	DMCAALKELLQNLNGRTLIGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWLLL	3553
GQ153542.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3560
DQ022305	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3556
KF569996.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
KP886809.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
AY278488.2	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
AY485277.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
AP006560.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
AP006557.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
AY274119	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
AY572038.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
AY572034.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
FJ588686.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3369
KY417145.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
KY417144.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
KY417147.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWLLL	3562
KY417148.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWLLL	3562
KY417143.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWLLL	3562
KT444582.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWLLL	3562
KC881005.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
KC881006.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
KF367457.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
KY417152.1	DMCAVLKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
KY417146.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
KY417151.1	DMCAALKELLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
KY417142.1	DMCAALKDLLQNGMNGRTILGSTILEDEFTPFDDVVQRCSGVTFQGKFKKIVKGTHHWMLL	3562
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MW532698.1	TILTSLLVLVQSTQWSLFFFVYENAFLPFALGIIAMSAFAMMFVKHKHAFCLCLFLLPSLA	3637
MT040336.1	TILTSLLVLVQSTQWSLFFFVYENAFLPFALGIIAMSAFAMMFVKHKHAFCLCLFLLPSLA	3637
MT040335.1	TILTSLLVLVQSTQWSLFFFVYENAFLPFALGIIAMSAFAMMFVKHKHAFCLCLFLLPSLA	3637
MT040334.1	TILTSLLVLVQSTQWSLFFFVYENAFLPFALGIIAMSAFAMMFVKHKHAFCLCLFLLPSLA	3637
MT040333.1	TILTSLLVLVQSTQWSLFFFVYENAFLPFALGIIAMSAFAMMFVKHKHAFCLCLFLLPSLA	3637
MN996532.2	TILTSLLVLVQSTQWSLFFFVYENAFLPFAMGIIAMSAFAMMFVKHKHAFCLCLFLLPSLA	3644
MN988713.1	TILTSLLVLVQSTQWSLFFFVYENAFLPFAMGIIAMSAFAMMFVKHKHAFCLCLFLLPSLA	3645
MT093571.1	TILTSLLVLVQSTQWSLFFFVYENAFLPFAMGIIAMSAFAMMFVKHKHAFCLCLFLLPSLA	3645
MN996529.1	TILTSLLVLVQSTQWSLFFFVYENAFLPFAMGIIAMSAFAMMFVKHKHAFCLCLFLLPSLA	3645
MT072688.1	TILTSLLVLVQSTQWSLFFFVYENAFLPFAMGIIAMSAFAMMFVKHKHAFCLCLFLLPSLA	3645
NC_045512.2	TILTSLLVLVQSTQWSLFFFVYENAFLPFAMGIIAMSAFAMMFVKHKHAFCLCLFLLPSLA	3645
MN994467.1	TILTSLLVLVQSTQWSLFFFVYENAFLPFAMGIIAMSAFAMMFVKHKHAFCLCLFLLPSLA	3645
MG772933.1	TVLTSLLVLVQSTQWSLFFFVYENAFMPFAMGIIAMSAFAMMFVKHKHAFCLCLFLLPSLA	3641
MG772934.1	TVLTSLLVLVQSTQWSLFFFVYENAFMPFAMGIIAMSAFAMMFVKHKHAFCLCLFLLPSLA	3619
NC_014470.1	TILTSLLILVQSTQWSLFFFVYENAFLPFTMGVVCFAACAMVLVKHKHAFCLCLFLLPSLI	3613
GQ153542.1	TFLTSLILVQSTQWSLFFFVYENAFLPFALGIMAVAACAMLLVKHKHAFCLCLFLLPSLA	3620
DQ022305	TFLTSLILVQSTQWSLFFFVYENAFLPFALGIMAVAACAMLLVKHKHAFCLCLFLLPSLA	3616
KF569996.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTFGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
KP886809.1	TFLMSLLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
AY278488.2	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
AY485277.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
AP006560.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
AP006557.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
AY274119	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
AY572038.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
AY572034.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
FJ588686.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3429
KY417145.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
KY417144.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
KY417147.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
KY417148.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
KY417143.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
KT444582.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
KC881005.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
KC881006.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
KF367457.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
KY417152.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
KY417146.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
KY417151.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
KY417142.1	TFLTSLILVQSTQWSLFFFVYENAFLPFTLGIMAIAACAMLLVKHKHAFCLCLFLLPSLA	3622
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MW532698.1	TVAYFNMVMPASWVMRIMTWLDMVDTSLSGYKLKDCIMYASAIILLILMTARTVYDDGA	3697
MT040336.1	TVAYFNMVMPASWVMRIMTWLDMVDTSLSGYKLKDCIMYASAIILLILMTARTVYDDGA	3697
MT040335.1	TVAYFNMVMPASWVMRIMTWLDMVDTSLSGYKLKDCIMYASAIILLILMTARTVYDDGA	3697
MT040334.1	TVAYFNMVMPASWVMRIMTWLDMVDTSLSGYKLKDCIMYASAIILLILMTARTVYDDGA	3697
MT040333.1	TVAYFNMVMPASWVMRIMTWLDMVDTSLSGYKLKDCIMYASAIILLILMTARTVYDDGA	3697
MN996532.2	TVAYFNMVMPASWVMRIMTWLDMVDTSLSGFKLKDCVMYASAVVLLILMTARTVYDDGA	3704
MN988713.1	TVAYFNMVMPASWVMRIMTWLDMVDTSLSGFKLKDCVMYASAVVLLILMTARTVYDDGA	3705
MT093571.1	TVAYFNMVMPASWVMRIMTWLDMVDTSLSGFKLKDCVMYASAVVLLILMTARTVYDDGA	3705
MN996529.1	TVAYFNMVMPASWVMRIMTWLDMVDTSLSGFKLKDCVMYASAVVLLILMTARTVYDDGA	3705
MT072688.1	TVAYFNMVMPASWVMRIMTWLDMVDTSLSGFKLKDCVMYASAVVLLILMTARTVYDDGA	3705
NC_045512.2	TVAYFNMVMPASWVMRIMTWLDMVDTSLSGFKLKDCVMYASAVVLLILMTARTVYDDGA	3705
MN994467.1	TVAYFNMVMPASWVMRIMTWLDMVDTSLSGFKLKDCVMYASAVVLLILMTARTVYDDGA	3705
MG772933.1	TVAYFNMVMPASWVMRIMTWL DIVDTSLSGFKLKDCVMYASAVVLLILMTARTVYDDGA	3701
MG772934.1	TVAYFNMVMPASWVMRIMTWL DIVDTSLSGFKLKDCVMYASAVVLLILMTARTVYDDSA	3679
NC_014470.1	TVAYFNMVMPASWVMRIMTWL DIVDTSLSGYRLKDCVMYALAAFLILMTARTVYDDAA	3673
GQ153542.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3680
DQ022305	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3676
KF569996.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
KP886809.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
AY278488.2	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
AY485277.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
AP006560.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
AP006557.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
AY274119	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
AY572038.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
AY572034.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
FJ588686.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3489
KY417145.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
KY417144.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
KY417147.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
KY417148.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
KY417143.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
KT444582.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
KC881005.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
KC881006.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
KF367457.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
KY417152.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
KY417146.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
KY417151.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682
KY417142.1	TVAYFNMVMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAA	3682

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MW532698.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALIISVTSNYSGVVTTVMFLARGIVFMCVEY	3757
MT040336.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALIISVTSNYSGVVTTVMFLARGIVFMCVEY	3757
MT040335.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALIISVTSNYSGVVTTVMFLARGIVFMCVEY	3757
MT040334.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALIISVTSNYSGVVTTVMFLARGIVFMCVEY	3757
MT040333.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALIISVTSNYSGVVTTVMFLARGIVFMCVEY	3757
MN996532.2	RRVWTLMNVLTLVYKVYYGNALDQAISMWALIISVTSNYSGVVTTVMFLARGIVFMCVEY	3764
MN988713.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALIISVTSNYSGVVTTVMFLARGIVFMCVEY	3765
MT093571.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALIISVTSNYSGVVTTVMFLARGIVFMCVEY	3765
MN996529.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALIISVTSNYSGVVTTVMFLARGIVFMCVEY	3765
MT072688.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALIISVTSNYSGVVTTVMFLARGIVFMCVEY	3765
NC_045512.2	RRVWTLMNVLTLVYKVYYGNALDQAISMWALIISVTSNYSGVVTTVMFLARGIVFMCVEY	3765
MN994467.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALIISVTSNYSGVVTTVMFLARGIVFMCVEY	3765
MG772933.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALIISVTSNYSGVVTTVMFLARGIVFMCVEY	3761
MG772934.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALIISVTSNYSGVVTTVMFLARGIVFMCVEY	3739
NC_014470.1	RRVWTLMNVLTLVYKVYYGNALDQALAMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3733
GQ153542.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3740
DQ022305	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3736
KF569996.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
KP886809.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
AY278488.2	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
AY485277.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
AP006560.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
AP006557.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
AY274119	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
AY572038.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
AY572034.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
FJ588686.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3549
KY417145.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
KY417144.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
KY417147.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
KY417148.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
KY417143.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
KT444582.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
KC881005.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
KC881006.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
KF367457.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
KY417152.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
KY417146.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
KY417151.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
KY417142.1	RRVWTLMNVLTLVYKVYYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIIVFVCVEY	3742
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MW532698.1	CPILFITGNTLQCIMLVYCFGLGYFCTCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3817
MT040336.1	CPILFITGNTLQCIMLVYCFGLGYFCTCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3817
MT040335.1	CPILFITGNTLQCIMLVYCFGLGYFCTCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3817
MT040334.1	CPILFITGNTLQCIMLVYCFGLGYFCTCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3817
MT040333.1	CPILFITGNTLQCIMLVYCFGLGYFCTCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3817
MN996532.2	CPIFFITGNTLQCIMLVYCFGLGYFCTCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3824
MN988713.1	CPIFFITGNTLQCIMLVYCFGLGYFCTCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3825
MT093571.1	CPIFFITGNTLQCIMLVYCFGLGYFCTCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3825
MN996529.1	CPIFFITGNTLQCIMLVYCFGLGYFCTCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3825
MT072688.1	CPIFFITGNTLQCIMLVYCFGLGYFCTCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3825
NC_045512.2	CPIFFITGNTLQCIMLVYCFGLGYFCTCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3825
MN994467.1	CPIFFITGNTLQCIMLVYCFGLGYFCTCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3825
MG772933.1	CPIFFITGNTLQCIMLVYCFGLGYFCTCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3821
MG772934.1	CPIFFITGNTLQCIMLVYCFGLGYFCTCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3799
NC_014470.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYFVSTQEFYRMNS	3793
GQ153542.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3800
DQ022305	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3796
KF569996.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
KP886809.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
AY278488.2	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
AY485277.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
AP006560.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
AP006557.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
AY274119	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
AY572038.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
AY572034.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
FJ588686.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3609
KY417145.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
KY417144.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
KY417147.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
KY417148.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
KY417143.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
KT444582.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
KC881005.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
KC881006.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
KF367457.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
KY417152.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
KY417146.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
KY417151.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
KY417142.1	YPLLFIITGNTLQCIMLVYCFGLGYCCCCYFGLFCLLNRYFRLTLGVYDYLSTQEFYRMNS	3802
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MW532698.1	QGLLPPKNSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3877
MT040336.1	QGLLPPKNSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3877
MT040335.1	QGLLPPKNSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3877
MT040334.1	QGLLPPKNSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3877
MT040333.1	QGLLPPKNSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3877
MN996532.2	QGLLPPKNSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3884
MN988713.1	QGLLPPKNSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3885
MT093571.1	QGLLPPKNSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3885
MN996529.1	QGLLPPKNSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3885
MT072688.1	QGLLPPKNSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3885
NC_045512.2	QGLLPPKNSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3885
MN994467.1	QGLLPPKNSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3885
MG772933.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3881
MG772934.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3859
NC_014470.1	QGLLPPKTSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3853
GQ153542.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3860
DQ022305	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3856
KF569996.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
KP886809.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
AY278488.2	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
AY485277.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
AP006560.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
AP006557.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
AY274119	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
AY572038.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
AY572034.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
FJ588686.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3669
KY417145.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
KY417144.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
KY417147.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
KY417148.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
KY417143.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
KT444582.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
KC881005.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
KC881006.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
KF367457.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
KY417152.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
KY417146.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
KY417151.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
KY417142.1	QGLLPPKSSIDAFKLNKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQIRVESSS	3862
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MW532698.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3937
MT040336.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3937
MT040335.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3937
MT040334.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3937
MT040333.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3937
MN996532.2	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3944
MN988713.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3945
MT093571.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3945
MN996529.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3945
MT072688.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3945
NC_045512.2	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3945
MN994467.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3945
MG772933.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3941
MG772934.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3919
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GQ153542.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3920
DQ022305	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3916
KF569996.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3922
KP886809.1	KLWAQCVQLHNDILLAKDTTAAFEKMSVLLSVLLSMQGAVDISKLCEEMLDNRATLQAIA	3922
AY278488.2	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINRLCEEMLDNRATLQAIA	3922
AY485277.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINRLCEEMLDNRATLQAIA	3922
AP006560.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINRLCEEMLDNRATLQAIA	3922
AP006557.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINRLCEEMLDNRATLQAIA	3922
AY274119	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINRLCEEMLDNRATLQAIA	3922
AY572038.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINRLCEEMLDNRATLQAIA	3922
AY572034.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINRLCEEMLDNRATLQAIA	3922
FJ588686.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3729
KY417145.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAIDINKLCEEMLDNRATLQAIA	3922
KY417144.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3922
KY417147.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDISKLCEEMLDNRATLQAIA	3922
KY417148.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDISKLCEEMLDNRATLQAIA	3922
KY417143.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3922
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KC881005.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3922
KC881006.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3922
KF367457.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3922
KY417152.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3922
KY417146.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3922
KY417151.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3922
KY417142.1	KLWAQCVQLHNDILLAKDTTEAFEKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQAIA	3922
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MW532698.1	SEFSSSLPSYAAFATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3997
MT040336.1	SEFSSSLPSYAAFATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3997
MT040335.1	SEFSSSLPSYAAFATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3997
MT040334.1	SEFSSSLPSYAAFATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3997
MT040333.1	SEFSSSLPSYAAFATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3997
MN996532.2	SEFSSSLPSYAAFATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	4004
MN988713.1	SEFSSSLPSYAAFATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	4005
MT093571.1	SEFSSSLPSYAAFATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	4005
MN996529.1	SEFSSSLPSYAAFATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	4005
MT072688.1	SEFSSSLPSYAAFATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	4005
NC_045512.2	SEFSSSLPSYAAFATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	4005
MN994467.1	SEFSSSLPSYAAFATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	4005
MG772933.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	4001
MG772934.1	SKFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3979
NC_014470.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3973
GQ153542.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3980
DQ022305	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3976
KF569996.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
KP886809.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
AY278488.2	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
AY485277.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
AP006560.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
AP006557.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
AY274119	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
AY572038.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
AY572034.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
FJ588686.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3789
KY417145.1	SEFSSSLPSYATYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
KY417144.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
KY417147.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
KY417148.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
KY417143.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
KT444582.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
KC881005.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
KC881006.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
KF367457.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
KY417152.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
KY417146.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
KY417151.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
KY417142.1	SEFSSSLPSYAAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAM	3982
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CoVAX_ORF1ab#12

MW532698.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4057
MT040336.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4057
MT040335.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4057
MT040334.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4057
MT040333.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4057
MN996532.2	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4064
MN988713.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4065
MT093571.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4065
MN996529.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4065
MT072688.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4065
NC_045512.2	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDNDALNNIINNARDGCVPLNIIPLT	4065
MN994467.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4065
MG772933.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4061
MG772934.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4039
NC_014470.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4033
GQ153542.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4040
DQ022305	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4036
KF569996.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
KP886809.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
AY278488.2	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
AY485277.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
AP006560.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
AP006557.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
AY274119	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
AY572038.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
AY572034.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
FJ588686.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	3849
KY417145.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
KY417144.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
KY417147.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
KY417148.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
KY417143.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
KT444582.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
KC881005.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
KC881006.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
KF367457.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
KY417152.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
KY417146.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
KY417151.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042
KY417142.1	DQAMTQMYKQARSEDKRAKVTSAMQTMFLTMLRKLDND	4042

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CoVAX_ORF1ab#12

MW532698.1	TAAKLMVVVPDYNTYKNTCEGSTFTTYASALWEIQQVVDADSKIVQLSEITMDNSPNIAWP	4117
MT040336.1	TAAKLMVVVPDYNTYKNTCEGSTFTTYASALWEIQQVVDADSKIVQLSEITMDNSPNIAWP	4117
MT040335.1	TAAKLMVVVPDYNTYKNTCEGSTFTTYASALWEIQQVVDADSKIVQLSEITMDNSPNIAWP	4117
MT040334.1	TAAKLMVVVPDYNTYKNTCEGSTFTTYASALWEIQQVVDADSKIVQLSEITMDNSPNIAWP	4117
MT040333.1	TAAKLMVVVPDYNTYKNTCEGSTFTTYASALWEIQQVVDADSKIVQLSEITMDNSPNIAWP	4117
MN996532.2	TAAKLMVVIPDYNTYKNTCDGTTFTTYASALWEIQQVVDADSKIVQLSEISMDNSPNLAWP	4124
MN988713.1	TAAKLMVVIPDYNTYKNTCDGTTFTTYASALWEIQQVVDADSKIVQLSEISMDNSPNLAWP	4125
MT093571.1	TAAKLMVVIPDYNTYKNTCDGTTFTTYASALWEIQQVVDADSKIVQLSEISMDNSPNLAWP	4125
MN996529.1	TAAKLMVVIPDYNTYKNTCDGTTFTTYASALWEIQQVVDADSKIVQLSEISMDNSPNLAWP	4125
MT072688.1	TAAKLMVVIPDYNTYKNTCDGTTFTTYASALWEIQQVVDADSKIVQLSEISMDNSPNLAWP	4125
NC_045512.2	TAAKLMVVIPDYNTYKNTCDGTTFTTYASALWEIQQVVDADSKIVQLSEISMDNSPNLAWP	4125
MN994467.1	TAAKLMVVIPDYNTYKNTCDGTTFTTYASALWEIQQVVDADSKIVQLSEISMDNSPNLAWP	4125
MG772933.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4121
MG772934.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4099
NC_014470.1	TAAKLMVVVPDYNTYKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4093
GQ153542.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4100
DQ022305	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4096
KF569996.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
KP886809.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
AY278488.2	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
AY485277.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
AP006560.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
AP006557.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
AY274119	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
AY572038.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
AY572034.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
FJ588686.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	3909
KY417145.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
KY417144.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
KY417147.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
KY417148.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
KY417143.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
KT444582.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
KC881005.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
KC881006.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
KF367457.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
KY417152.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
KY417146.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
KY417151.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
KY417142.1	TAAKLMVVVPDYGTYNKNTCDGNTFTTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWP	4102
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MW532698.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	NEDNALAY	YNTSKGGRFV	LALL	4177
MT040336.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	NEDNALAY	YNTSKGGRFV	LALL	4177
MT040335.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	NEDNALAY	YNTSKGGRFV	LALL	4177
MT040334.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	NEDNALAY	YNTSKGGRFV	LALL	4177
MT040333.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	NEDNALAY	YNTSKGGRFV	LALL	4177
MN996532.2	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNTTKGGRFV	LALL	4184
MN988713.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNTTKGGRFV	LALL	4185
MT093571.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNTTKGGRFV	LALL	4185
MN996529.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNTTKGGRFV	LALL	4185
MT072688.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNTTKGGRFV	LALL	4185
NC_045512.2	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNTTKGGRFV	LALL	4185
MN994467.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNTTKGGRFV	LALL	4185
MG772933.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNTSKGGRFV	LALL	4181
MG772934.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNTSKGGRFV	LALL	4159
NC_014470.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNTSKGGRFV	LALL	4153
GQ153542.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNAKGGRFV	LALL	4160
DQ022305	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNAKGGRFV	LALL	4156
KF569996.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRF	LALL	4162
KP886809.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
AY278488.2	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
AY485277.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
AP006560.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
AP006557.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
AY274119	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
AY572038.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
AY572034.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
FJ588686.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	3969
KY417145.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
KY417144.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
KY417147.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
KY417148.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
KY417143.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
KT44582.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
KC881005.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
KC881006.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
KF367457.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
KY417152.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
KY417146.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
KY417151.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
KY417142.1	LIVTALTRANS	SAVKLQNNELSPVALRQMS	CAAGTTQTAC	DDNALAY	YNNSKGGRFV	LALL	4162
	*****	*****	*****	*****	*****	*****	

MW532698.1	SDLQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4237
MT040336.1	SDLQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4237
MT040335.1	SDLQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4237
MT040334.1	SDLQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4237
MT040333.1	SDLQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4237
MN996532.2	SDLQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4244
MN988713.1	SDLQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4245
MT093571.1	SDLQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4245
MN996529.1	SDLQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4245
MT072688.1	SDLQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4245
NC_045512.2	SDLQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4245
MN994467.1	SDLQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4245
MG772933.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4241
MG772934.1	SDHQDLKWSRFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4219
NC_014470.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4213
GQ153542.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4220
DQ022305	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4216
KF569996.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
KP886809.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
AY278488.2	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
AY485277.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
AP006560.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
AP006557.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
AY274119	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
AY572038.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
AY572034.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
FJ588686.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4029
KY417145.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
KY417144.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
KY417147.1	SDQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
KY417148.1	SDQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
KY417143.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
KT444582.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
KC881005.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
KC881006.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
KF367457.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
KY417152.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
KY417146.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
KY417151.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
KY417142.1	SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKVYLYFIKGLNNLNRGMVLGS	4222
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MW532698.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDASKAYRDYLASGGQPITNCVKMLCTHTGTG	4297
MT040336.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDASKAYRDYLASGGQPITNCVKMLCTHTGTG	4297
MT040335.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDASKAYRDYLASGGQPITNCVKMLCTHTGTG	4297
MT040334.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDASKAYRDYLASGGQPITNCVKMLCTHTGTG	4297
MT040333.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDASKAYRDYLASGGQPITNCVKMLCTHTGTG	4297
MN996532.2	LAATVRLQAGNATEVPANSTVLSFCAFAVDAKAYKDYLASGGQPITNCVKMLCTHTGTG	4304
MN988713.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDAKAYKDYLASGGQPITNCVKMLCTHTGTG	4305
MT093571.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDAKAYKDYLASGGQPITNCVKMLCTHTGTG	4305
MN996529.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDAKAYKDYLASGGQPITNCVKMLCTHTGTG	4305
MT072688.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDAKAYKDYLASGGQPITNCVKMLCTHTGTG	4305
NC_045512.2	LAATVRLQAGNATEVPANSTVLSFCAFAVDAKAYKDYLASGGQPITNCVKMLCTHTGTG	4305
MN994467.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDAKAYKDYLASGGQPITNCVKMLCTHTGTG	4305
MG772933.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4301
MG772934.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4279
NC_014470.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4273
GQ153542.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4280
DQ022305	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4276
KF569996.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
KP886809.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
AY278488.2	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
AY485277.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
AP006560.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
AP006557.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
AY274119	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
AY572038.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
AY572034.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
FJ588686.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4089
KY417145.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
KY417144.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
KY417147.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
KY417148.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
KY417143.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
KT444582.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
KC881005.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
KC881006.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
KF367457.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
KY417152.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
KY417146.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
KY417151.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
KY417142.1	LAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTG	4282
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MW532698.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGYCELKGKVVQIPTTCANDPVGFTL	4357
MT040336.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGYCELKGKVVQIPTTCANDPVGFTL	4357
MT040335.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGYCELKGKVVQIPTTCANDPVGFTL	4357
MT040334.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGYCELKGKVVQIPTTCANDPVGFTL	4357
MT040333.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGYCELKGKVVQIPTTCANDPVGFTL	4357
MN996532.2	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4364
MN988713.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4365
MT093571.1	QAITVTPEANMDQESLGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4365
MN996529.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4365
MT072688.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4365
NC_045512.2	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4365
MN994467.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4365
MG772933.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCVNDPVGFTL	4361
MG772934.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4339
NC_014470.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCNDPVGFTL	4333
GQ153542.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4340
DQ022305	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4336
KF569996.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
KP886809.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPATCANDPVGFTF	4342
AY278488.2	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
AY485277.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
AP006560.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
AP006557.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
AY274119	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
AY572038.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
AY572034.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
FJ588686.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4149
KY417145.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
KY417144.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
KY417147.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
KY417148.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
KY417143.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
KT444582.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
KC881005.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
KC881006.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
KF367457.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
KY417152.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
KY417146.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
KY417151.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
KY417142.1	QAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKVVQIPTTCANDPVGFTL	4342
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MW532698.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEDGNLIDSYFIVKRHTFSNYQHEEAIYNLLKDC	4477
MT040336.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEDGNLIDSYFIVKRHTFSNYQHEEAIYNLLKDC	4477
MT040335.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEDGNLIDSYFIVKRHTFSNYQHEEAIYNLLKDC	4477
MT040334.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEDGNLIDSYFIVKRHTFSNYQHEEAIYNLLKDC	4477
MT040333.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEDGNLIDSYFIVKRHTFSNYQHEEAIYNLLKDC	4477
MN996532.2	AFDIYNDKVAGFAKFLKTNCCRFQEKDEEDNLDIDSYFVVKRHTFSNYQHEETIYNLLKDC	4484
MN988713.1	AFDIYNDKVAGFAKFLKTNCCRFQEKDEEDNLDIDSYFVVKRHTFSNYQHEETIYNLLKDC	4485
MT093571.1	AFDIYNDKVAGFAKFLKTNCCRFQEKDEEDNLDIDSYFVVKRHTFSNYQHEETIYNLLKDC	4485
MN996529.1	AFDIYNDKVAGFAKFLKTNCCRFQEKDEEDNLDIDSYFVVKRHTFSNYQHEETIYNLLKDC	4485
MT072688.1	AFDIYNDKVAGFAKFLKTNCCRFQEKDEEDNLDIDSYFVVKRHTFSNYQHEETIYNLLKDC	4485
NC_045512.2	AFDIYNDKVAGFAKFLKTNCCRFQEKDEEDNLDIDSYFVVKRHTFSNYQHEETIYNLLKDC	4485
MN994467.1	AFDIYNDKVAGFAKFLKTNCCRFQEKDEEDNLDIDSYFVVKRHTFSNYQHEETIYNLLKDC	4485
MG772933.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKGC	4481
MG772934.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEENIYNLVKEC	4459
NC_014470.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETMYNLVKEC	4453
GQ153542.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLIKEC	4460
DQ022305	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLIKEC	4456
KF569996.1	-----AVMSNYQHEETIYNLVKEC	4399
KP886809.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKDC	4462
AY278488.2	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKDC	4462
AY485277.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKDC	4462
AP006560.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKDC	4462
AP006557.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKDC	4462
AY274119	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKDC	4462
AY572038.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKDC	4462
AY572034.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKDC	4462
FJ588686.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKDC	4269
KY417145.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKDC	4462
KY417144.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKNC	4462
KY417147.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKDC	4462
KY417148.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKDC	4462
KY417143.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEEAIYNLVKDC	4462
KT444582.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEEAIYNLVKDC	4462
KC881005.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKNC	4462
KC881006.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKNC	4462
KF367457.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKNC	4462
KY417152.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKNC	4462
KY417146.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKDC	4462
KY417151.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKNC	4462
KY417142.1	AFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLDIDSYFVVKRHTMSNYQHEETIYNLVKNC	4462

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MW532698.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCCT	4537
MT040336.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCCT	4537
MT040335.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCCT	4537
MT040334.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCCT	4537
MT040333.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCCT	4537
MN996532.2	PAVAKHDDFFKFRIDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLREILVTYNCCD	4544
MN988713.1	PAVAKHDDFFKFRIDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4545
MT093571.1	PAVAKHDDFFKFRIDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4545
MN996529.1	PAVAKHDDFFKFRIDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4545
MT072688.1	PAVAKHDDFFKFRIDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4545
NC_045512.2	PAVAKHDDFFKFRIDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4545
MN994467.1	PAVAKHDDFFKFRIDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4545
MG772933.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYKCCD	4541
MG772934.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4519
NC_014470.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4513
GQ153542.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4520
DQ022305	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4516
KF569996.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4459
KP886809.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
AY278488.2	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
AY485277.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
AP006560.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
AP006557.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
AY274119	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
AY572038.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
AY572034.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
FJ588686.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4329
KY417145.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
KY417144.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
KY417147.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
KY417148.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
KY417143.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
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KC881005.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
KC881006.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
KF367457.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
KY417152.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
KY417146.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
KY417151.1	PSVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
KY417142.1	PAVAVHDDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCD	4522
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MW532698.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4597
MT040336.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4597
MT040335.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4597
MT040334.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4597
MT040333.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4597
MN996532.2	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4604
MN988713.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4605
MT093571.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4605
MN996529.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4605
MT072688.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4605
NC_045512.2	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4605
MN994467.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4605
MG772933.1	DNYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4601
MG772934.1	GDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4579
NC_014470.1	DAYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4573
GQ153542.1	DNYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4580
DQ022305	DNYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4576
KF569996.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4519
KP886809.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
AY278488.2	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
AY485277.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
AP006560.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
AP006557.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
AY274119	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
AY572038.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
AY572034.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
FJ588686.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4389
KY417145.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
KY417144.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
KY417147.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
KY417148.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
KY417143.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
KT444582.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
KC881005.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
KC881006.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
KF367457.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
KY417152.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
KY417146.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
KY417151.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
KY417142.1	DDYFNKKDWYDFVENPDILRVYANLGERVRQALLKTVQFCDAMRD	AGIVGVLTLDNQDLN	4582
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MW532698.1	GNWYDFGDFIQTTPGSGVPIVDSYSSLLMPILTLTRALAAESHLADLT	KPYVKWDL	4657
MT040336.1	GNWYDFGDFIQTTPGSGVPIVDSYSSLLMPILTLTRALAAESHLADLT	KPYVKWDL	4657
MT040335.1	GNWYDFGDFIQTTPGSGVPIVDSYSSLLMPILTLTRALAAESHLADLT	KPYVKWDL	4657
MT040334.1	GNWYDFGDFIQTTPGSGVPIVDSYSSLLMPILTLTRALAAESHLADLT	KPYVKWDL	4657
MT040333.1	GNWYDFGDFIQTTPGSGVPIVDSYSSLLMPILTLTRALAAESHLADLT	KPYVKWDL	4657
MN996532.2	GNWYDFGDFIQTTPGSGVPIVDSYSSLLMPILTLTRALAAESHLADLT	KPYVKWDL	4664
MN988713.1	GNWYDFGDFIQTTPGSGVPIVDSYSSLLMPILTLTRALAAESHLADLT	KPYVKWDL	4665
MT093571.1	GNWYDFGDFIQTTPGSGVPIVDSYSSLLMPILTLTRALAAESHLADLT	KPYVKWDL	4665
MN996529.1	GNWYDFGDFIQTTPGSGVPIVDSYSSLLMPILTLTRALAAESHLADLT	KPYVKWDL	4665
MT072688.1	GNWYDFGDFIQTTPGSGVPIVDSYSSLLMPILTLTRALAAESHLADLT	KPYVKWDL	4665
NC_045512.2	GNWYDFGDFIQTTPGSGVPIVDSYSSLLMPILTLTRALAAESHLADLT	KPYVKWDL	4665
MN994467.1	GNWYDFGDFIQTTPGSGVPIVDSYSSLLMPILTLTRALAAESHLADLT	KPYVKWDL	4665
MG772933.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4661
MG772934.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4639
NC_014470.1	GNWYDFGDFVQVAPGAGIPIVDSYSSLLMPILTLTKALAAESHMDCDT	TKPLIKWDL	4633
GQ153542.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTKALAAESHMDADL	AKPLVKWDL	4640
DQ022305	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTKALAAESHMDADL	AKPLVKWDL	4636
KF569996.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4579
KP886809.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTMTRALAAESHMDADL	AKPLIKWDL	4642
AY278488.2	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
AY485277.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
AP006560.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
AP006557.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
AY274119	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
AY572038.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
AY572034.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
FJ588686.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4449
KY417145.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
KY417144.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
KY417147.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
KY417148.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
KY417143.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
KT444582.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
KC881005.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
KC881006.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
KF367457.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
KY417152.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
KY417146.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
KY417151.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
KY417142.1	GNWYDFGDFVQVAPGCGVPIVDSYSSLLMPILTLTRALAAESHMDADL	AKPLIKWDL	4642
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MW532698.1	DFTEERLNLFNRYFKYWDQTYHPNCVNCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4717
MT040336.1	DFTEERLNLFNRYFKYWDQTYHPNCVNCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4717
MT040335.1	DFTEERLNLFNRYFKYWDQTYHPNCVNCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4717
MT040334.1	DFTEERLNLFNRYFKYWDQTYHPNCVNCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4717
MT040333.1	DFTEERLNLFNRYFKYWDQTYHPNCVNCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4717
MN996532.2	DFTEERLKLFDYFKYWDQTYHPNCVNCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4724
MN988713.1	DFTEERLKLFDYFKYWDQTYHPNCVNCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4725
MT093571.1	DFTEERLKLFDYFKYWDQTYHPNCVNCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4725
MN996529.1	DFTEERLKLFDYFKYWDQTYHPNCVNCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4725
MT072688.1	DFTEERLKLFDYFKYWDQTYHPNCVNCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4725
NC_045512.2	DFTEERLKLFDYFKYWDQTYHPNCVNCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4725
MN994467.1	DFTEERLKLFDYFKYWDQTYHPNCVNCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4725
MG772933.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4721
MG772934.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4699
NC_014470.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4693
GQ153542.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4700
DQ022305	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4696
KF569996.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4639
KP886809.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
AY278488.2	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
AY485277.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
AP006560.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
AP006557.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
AY274119	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
AY572038.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
AY572034.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
FJ588686.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4509
KY417145.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
KY417144.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
KY417147.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
KY417148.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
KY417143.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
KT444582.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
KC881005.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
KC881006.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
KF367457.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
KY417152.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
KY417146.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
KY417151.1	DFTEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
KY417142.1	DFMEERLCLFDYFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKI	4702
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MW532698.1	FVDGVPFVSTGYHFRELGVVHNQDVNIHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4777
MT040336.1	FVDGVPFVSTGYHFRELGVVHNQDVNIHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4777
MT040335.1	FVDGVPFVSTGYHFRELGVVHNQDVNIHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4777
MT040334.1	FVDGVPFVSTGYHFRELGVVHNQDVNIHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4777
MT040333.1	FVDGVPFVSTGYHFRELGVVHNQDVNIHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4777
MN996532.2	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4784
MN988713.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4785
MT093571.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4785
MN996529.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4785
MT072688.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4785
NC_045512.2	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4785
MN994467.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4785
MG772933.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4781
MG772934.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4759
NC_014470.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4753
GQ153542.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4760
DQ022305	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4756
KF569996.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4699
KP886809.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
AY278488.2	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
AY485277.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
AP006560.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
AP006557.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
AY274119	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
AY572038.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
AY572034.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
FJ588686.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4569
KY417145.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
KY417144.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
KY417147.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
KY417148.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
KY417143.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
KT444582.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
KC881005.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
KC881006.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
KF367457.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
KY417152.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
KY417146.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
KY417151.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
KY417142.1	FVDGVPFVSTGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRT	4762
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MW532698.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4837
MT040336.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4837
MT040335.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4837
MT040334.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4837
MT040333.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4837
MN996532.2	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4844
MN988713.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4845
MT093571.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4845
MN996529.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4845
MT072688.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4845
NC_045512.2	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4845
MN994467.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4845
MG772933.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4841
MG772934.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4819
NC_014470.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4813
GQ153542.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4820
DQ022305	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4816
KF569996.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4759
KP886809.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
AY278488.2	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
AY485277.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
AP006560.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
AP006557.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
AY274119	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
AY572038.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
AY572034.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
FJ588686.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4629
KY417145.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
KY417144.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
KY417147.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
KY417148.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
KY417143.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
KT444582.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
KC881005.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
KC881006.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
KF367457.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
KY417152.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
KY417146.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
KY417151.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
KY417142.1	TCFSVAALTNNVA	FQTVKPGNFNKFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDY	4822
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MT040336.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4897
MT040335.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4897
MT040334.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4897
MT040333.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4897
MN996532.2	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4904
MN988713.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4905
MT093571.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4905
MN996529.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4905
MT072688.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4905
NC_045512.2	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4905
MN994467.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4905
MG772933.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4901
MG772934.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4879
NC_014470.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4873
GQ153542.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4880
DQ022305	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4876
KF569996.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4819
KP886809.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
AY278488.2	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
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AP006560.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
AP006557.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
AY274119	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
AY572038.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
AY572034.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
FJ588686.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4689
KY417145.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
KY417144.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
KY417147.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
KY417148.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
KY417143.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
KT444582.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
KC881005.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
KC881006.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
KF367457.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
KY417152.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
KY417146.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
KY417151.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
KY417142.1	DYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQ	VIVNNLDKSAGFPFNKKGKAR	4882
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MT040336.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4957
MT040335.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4957
MT040334.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4957
MT040333.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4957
MN996532.2	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4964
MN988713.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4965
MT093571.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4965
MN996529.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4965
MT072688.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4965
NC_045512.2	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4965
MN994467.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4965
MG772933.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4961
MG772934.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4939
NC_014470.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4933
GQ153542.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4940
DQ022305	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4936
KF569996.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4879
KP886809.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942
AY278488.2	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942
AY485277.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942
AP006560.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942
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AY274119	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942
AY572038.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942
AY572034.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942
FJ588686.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4749
KY417145.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942
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KY417143.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942
KT444582.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942
KC881005.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942
KC881006.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942
KF367457.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942
KY417152.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942
KY417146.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942
KY417151.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942
KY417142.1	LYYDSMSYEDQDALFAYTKRNVIPITITQMNLLKYAISAKNRARTVAGVSI	4942

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MT040334.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5017
MT040333.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5017
MN996532.2	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5024
MN988713.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5025
MT093571.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5025
MN996529.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5025
MT072688.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5025
NC_045512.2	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5025
MN994467.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5025
MG772933.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5021
MG772934.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	4999
NC_014470.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	4993
GQ153542.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5000
DQ022305	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	4996
KF569996.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	4939
KP886809.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
AY278488.2	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
AY485277.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
AP006560.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
AP006557.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
AY274119	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
AY572038.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
AY572034.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
FJ588686.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	4809
KY417145.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
KY417144.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
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KY417143.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
KT444582.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
KC881005.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
KC881006.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
KF367457.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
KY417152.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
KY417146.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
KY417151.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002
KY417142.1	KLLKSIAATRGATVVIGTSKIFYGGW	NNMLKTVYSDVEN	PHLMGWDYPKCDRAMPNMLRIM	5002

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MT040336.1	FNICQAVTANVNALLSTDGNKIGDKYIRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5137
MT040335.1	FNICQAVTANVNALLSTDGNKIGDKYIRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5137
MT040334.1	FNICQAVTANVNALLSTDGNKIGDKYIRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5137
MT040333.1	FNICQAVTANVNALLSTDGNKIGDKYIRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5137
MN996532.2	FNICQAVTANVNALLSTDGNKIADKHVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5144
MN988713.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5145
MT093571.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5145
MN996529.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5145
MT072688.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5145
NC_045512.2	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5145
MN994467.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5145
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MG772934.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5119
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DQ022305	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5116
KF569996.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5059
KP886809.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
AY278488.2	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
AY485277.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
AP006560.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
AP006557.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
AY274119	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
AY572038.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
AY572034.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
FJ588686.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	4929
KY417145.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
KY417144.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
KY417147.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
KY417148.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
KY417143.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
KT444582.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
KC881005.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
KC881006.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
KF367457.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
KY417152.1	FNICQAVTANVNALLSTDGNKIADKYVCNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
KY417146.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
KY417151.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
KY417142.1	FNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVTDFVNEFYAYLRKHF	5122
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CoVAX_ORF1ab#14

CoVAX_ORF1ab#1

MW532698.1	SMMILSDDAVVCFNS	TYASQGLVASIKNFKSV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5197
MT040336.1	SMMILSDDAVVCFNS	TYASQGLVASIKNFKSV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5197
MT040335.1	SMMILSDDAVVCFNS	TYASQGLVASIKNFKSV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5197
MT040334.1	SMMILSDDAVVCFNS	TYASQGLVASIKNFKSV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5197
MT040333.1	SMMILSDDAVVCFNS	TYASQGLVASIKNFKSV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5197
MN996532.2	SMMILSDDAVVCFNS	TYASQGLVASIKNFKSV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5204
MN988713.1	SMMILSDDAVVCFNS	TYASQGLVASIKNFKSV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5205
MT093571.1	SMMILSDDAVVCFNS	TYASQGLVASIKNFKSV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5205
MN996529.1	SMMILSDDAVVCFNS	TYASQGLVASIKNFKSV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5205
MT072688.1	SMMILSDDAVVCFNS	TYASQGLVASIKNFKSV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5205
NC_045512.2	SMMILSDDAVVCFNS	TYASQGLVASIKNFKSV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5205
MN994467.1	SMMILSDDAVVCFNS	TYASQGLVASIKNFKSV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5205
MG772933.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5201
MG772934.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5179
NC_014470.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5173
GQ153542.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5180
DQ022305	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5176
KF569996.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5119
KP886809.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
AY278488.2	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
AY485277.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
AP006560.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
AP006557.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
AY274119	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
AY572038.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
AY572034.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
FJ588686.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	4989
KY417145.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
KY417144.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
KY417147.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
KY417148.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
KY417143.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
KT444582.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
KC881005.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
KC881006.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
KF367457.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
KY417152.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
KY417146.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
KY417151.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182
KY417142.1	SMMILSDDAVVCYNS	NYAAQGLVASIKNFKAV	LYYQNNVMSEAKCWTETDLTKGPHEFC	5182

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CoVAX_ORF1ab#1

CoVAX_ORF1ab#9

MW532698.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5257
MT040336.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5257
MT040335.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5257
MT040334.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5257
MT040333.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5257
MN996532.2	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5264
MN988713.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5265
MT093571.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5265
MN996529.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5265
MT072688.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5265
NC_045512.2	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5265
MN994467.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5265
MG772933.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5261
MG772934.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5239
NC_014470.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5233
GQ153542.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5240
DQ022305	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5236
KF569996.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5179
KP886809.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5242
AY278488.2	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5242
AY485277.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5242
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AY572038.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5242
AY572034.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5242
FJ588686.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5049
KY417145.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5242
KY417144.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5242
KY417147.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5242
KY417148.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5242
KY417143.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5242
KT444582.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5242
KC881005.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5242
KC881006.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5242
KF367457.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5242
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KY417151.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5242
KY417142.1	SQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHP	5242

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CoVAX_ORF1ab#13

MW532698.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5317
MT040336.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5317
MT040335.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5317
MT040334.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5317
MT040333.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5317
MN996532.2	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5324
MN988713.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5325
MT093571.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5325
MN996529.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5325
MT072688.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5325
NC_045512.2	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5325
MN994467.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5325
MG772933.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5321
MG772934.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5299
NC_014470.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5293
GQ153542.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5300
DQ022305	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5296
KF569996.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5239
KP886809.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
AY278488.2	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
AY485277.1	NQEYAAVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
AP006560.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
AP006557.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
AY274119	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
AY572038.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
AY572034.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
FJ588686.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5109
KY417145.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
KY417144.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
KY417147.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
KY417148.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
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KC881005.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
KC881006.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
KF367457.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
KY417152.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
KY417146.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
KY417151.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
KY417142.1	NQEYADVFLHLYLQYIRKLHDELTHGMLDMYSVMLTNDSTSRWEPFYEAMYPHTVLQA	5302
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MW532698.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNATGCDVTDVT	5377
MT040336.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNATGCDVTDVT	5377
MT040335.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNATGCDVTDVT	5377
MT040334.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNATGCDVTDVT	5377
MT040333.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNATGCDVTDVT	5377
MN996532.2	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5384
MN988713.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5385
MT093571.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5385
MN996529.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5385
MT072688.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5385
NC_045512.2	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5385
MN994467.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5385
MG772933.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5381
MG772934.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5359
NC_014470.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5353
GQ153542.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5360
DQ022305	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5356
KF569996.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5299
KP886809.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
AY278488.2	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
AY485277.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
AP006560.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
AP006557.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
AY274119	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
AY572038.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
AY572034.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
FJ588686.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5169
KY417145.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
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KY417147.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
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KY417143.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
KT444582.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
KC881005.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
KC881006.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
KF367457.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
KY417152.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
KY417146.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
KY417151.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
KY417142.1	VGACVLCNSQTSLRGACIRRPFLCCKCCYDHVISTSHKLVL SVNPYVCNAPGCDVTDVT	5362
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MW532698.1	QLYLGGMSSYYCKAHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5437
MT040336.1	QLYLGGMSSYYCKAHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5437
MT040335.1	QLYLGGMSSYYCKAHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5437
MT040334.1	QLYLGGMSSYYCKAHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5437
MT040333.1	QLYLGGMSSYYCKAHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5437
MN996532.2	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5444
MN988713.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5445
MT093571.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5445
MN996529.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5445
MT072688.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5445
NC_045512.2	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5445
MN994467.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5445
MG772933.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5441
MG772934.1	QLYLGGMSSYYCKLHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5419
NC_014470.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5413
GQ153542.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5420
DQ022305	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5416
KF569996.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5359
KP886809.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
AY278488.2	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
AY485277.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
AP006560.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
AP006557.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
AY274119	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
AY572038.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
AY572034.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
FJ588686.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5229
KY417145.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
KY417144.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
KY417147.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
KY417148.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
KY417143.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
KT444582.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
KC881005.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
KC881006.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
KF367457.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
KY417152.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
KY417146.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
KY417151.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
KY417142.1	QLYLGGMSSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYI	5422
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MW532698.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELYLSWEVGKE	RPLNRRNYV	5497
MT040336.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELYLSWEVGKE	RPLNRRNYV	5497
MT040335.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELYLSWEVGKE	RPLNRRNYV	5497
MT040334.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELYLSWEVGKE	RPTLNRRNV	5497
MT040333.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELYLSWEVGKE	RPLNRRNYV	5497
MN996532.2	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5504
MN988713.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5505
MT093571.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5505
MN996529.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5505
MT072688.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5505
NC_045512.2	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5505
MN994467.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5505
MG772933.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5501
MG772934.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELYLSWEVGKE	RPLNRRNYV	5479
NC_014470.1	LANTCTERLKLFAAETLKANE	TFKLSYGIATVREVLS	DRELHLSWEIGKE	RPLNRRNYV	5473
GQ153542.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELYLSWEVGKE	RPLNRRNYV	5480
DQ022305	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELYLSWEVGKE	RPLNRRNYV	5476
KF569996.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5419
KP886809.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
AY278488.2	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
AY485277.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
AP006560.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
AP006557.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
AY274119	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
AY572038.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
AY572034.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
FJ588686.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5289
KY417145.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
KY417144.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	KPLNRRNYV	5482
KY417147.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
KY417148.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
KY417143.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
KT444582.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
KC881005.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
KC881006.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
KF367457.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
KY417152.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
KY417146.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
KY417151.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
KY417142.1	LANTCTERLKLFAAETLKATEE	TFKLSYGIATVREVLS	DRELHLSWEVGKE	RPLNRRNYV	5482
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MT040335.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5677
MT040334.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5677
MT040333.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5677
MN996532.2	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5684
MN988713.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5685
MT093571.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5685
MN996529.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5685
MT072688.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5685
NC_045512.2	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5685
MN994467.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5685
MG772933.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5681
MG772934.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5659
NC_014470.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5653
GQ153542.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5660
DQ022305	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5656
KF569996.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5599
KP886809.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662
AY278488.2	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662
AY485277.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662
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AP006557.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662
AY274119	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662
AY572038.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662
AY572034.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662
FJ588686.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5469
KY417145.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662
KY417144.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662
KY417147.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662
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KY417143.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662
KT444582.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662
KC881005.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662
KC881006.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662
KF367457.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662
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KY417151.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662
KY417142.1	ARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVN	5662

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CoVAX_ORF1ab#3

[illegible]

MW532698.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLRAHKDKSQCFKMFYKGVIT	5797
MT040336.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLRAHKDKSQCFKMFYKGVIT	5797
MT040335.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLRAHKDKSQCFKMFYKGVIT	5797
MT040334.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLRAHKDKSQCFKMFYKGVIT	5797
MT040333.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLRAHKDKSQCFKMFYKGVIT	5797
MN996532.2	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKDKSAQCFKMFYKGVIT	5804
MN988713.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKDKSAQCFKMFYKGVIT	5805
MT093571.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKDKSAQCFKMFYKGVIT	5805
MN996529.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKDKSAQCFKMFYKGVIT	5805
MT072688.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKDKSAQCFKMFYKGVIT	5805
NC_045512.2	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKDKSAQCFKMFYKGVIT	5805
MN994467.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKDKSAQCFKMFYKGVIT	5805
MG772933.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5801
MG772934.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5779
NC_014470.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLRAHKGKSSQCFKMFYKGVIT	5773
GQ153542.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMYKGVIT	5780
DQ022305	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMYKGVIT	5776
KF569996.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLRAHKEKSAQCFKMFYKGVIT	5719
KP886809.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5782
AY278488.2	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5782
AY485277.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKDKSAQCFKMFYKGVIT	5782
AP006560.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKDKSAQCFKMFYKGVIT	5782
AP006557.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKDKSAQCFKMFYKGVIT	5782
AY274119	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKDKSAQCFKMFYKGVIT	5782
AY572038.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5782
AY572034.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5782
FJ588686.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLRAHKEKSAQCFKMFYKGVIT	5589
KY417145.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKDKSAQCFKMFYKGVIT	5782
KY417144.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5782
KY417147.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKDKSAQCFKMFYKGVIT	5782
KY417148.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5782
KY417143.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5782
KT444582.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5782
KC881005.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5782
KC881006.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5782
KF367457.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5782
KY417152.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5782
KY417146.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5782
KY417151.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5782
KY417142.1	FNSVCRMLMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVIT	5782
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MT040335.1	HDVSSAINRPQIGVVREFLTRNPTWRKAVFISPYNSQNAVAAKILGLPTQTVDSSQGSEY	5857
MT040334.1	HDVSSAINRPQIGVVREFLTRNPTWRKAVFISPYNSQNAVAAKILGLPTQTVDSSQGSEY	5857
MT040333.1	HDVSSAINRPQIGVVREFLTRNPTWRKAVFISPYNSQNAVAAKILGLPTQTVDSSQGSEY	5857
MN996532.2	HDVSSAINRPQIGVVREFLTRNPTWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5864
MN988713.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5865
MT093571.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5865
MN996529.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5865
MT072688.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5865
NC_045512.2	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5865
MN994467.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5865
MG772933.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5861
MG772934.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNTVASKILGLPTQTVDSSQGSEY	5839
NC_014470.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5833
GQ153542.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5840
DQ022305	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5836
KF569996.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVAAKILGLPTQTVDSSQGSEY	5779
KP886809.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
AY278488.2	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
AY485277.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
AP006560.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
AP006557.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
AY274119	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
AY572038.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
AY572034.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
FJ588686.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5649
KY417145.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
KY417144.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
KY417147.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
KY417148.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
KY417143.1	HDVSSAINRPQIGVVREFLTRNPVWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
KT444582.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
KC881005.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
KC881006.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
KF367457.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
KY417152.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
KY417146.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
KY417151.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
KY417142.1	HDVSSAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEY	5842
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MW532698.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5917
MT040336.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5917
MT040335.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5917
MT040334.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5917
MT040333.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5917
MN996532.2	DYVIFTQTTETAHSCNVNRFNVAITRAKVGILCIMS	DRDLYDKLQFTSLEIPRRNVATLQ	5924
MN988713.1	DYVIFTQTTETAHSCNVNRFNVAITRAKVGILCIMS	DRDLYDKLQFTSLEIPRRNVATLQ	5925
MT093571.1	DYVIFTQTTETAHSCNVNRFNVAITRAKVGILCIMS	DRDLYDKLQFTSLEIPRRNVATLQ	5925
MN996529.1	DYVIFTQTTETAHSCNVNRFNVAITRAKVGILCIMS	DRDLYDKLQFTSLEIPRRNVATLQ	5925
MT072688.1	DYVIFTQTTETAHSCNVNRFNVAITRAKVGILCIMS	DRDLYDKLQFTSLEIPRRNVATLQ	5925
NC_045512.2	DYVIFTQTTETAHSCNVNRFNVAITRAKVGILCIMS	DRDLYDKLQFTSLEIPRRNVATLQ	5925
MN994467.1	DYVIFTQTTETAHSCNVNRFNVAITRAKVGILCIMS	DRDLYDKLQFTSLEIPRRNVATLQ	5925
MG772933.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFMSLEVPRRNVATLQ	5921
MG772934.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5899
NC_014470.1	DYVIFTQTTETAHSCNVNRFNVAITRAKVGILCIMS	DRDLYDKLQFTSLEVPRRSVAVLQ	5893
GQ153542.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEIPRRNVATLQ	5900
DQ022305	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5896
KF569996.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5839
KP886809.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5902
AY278488.2	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEIPRRNVATLQ	5902
AY485277.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEIPRRNVATLQ	5902
AP006560.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEIPRRNVATLQ	5902
AP006557.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEIPRRNVATLQ	5902
AY274119	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEIPRRNVATLQ	5902
AY572038.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEIPRRNVATLQ	5902
AY572034.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEIPRRNVATLQ	5902
FJ588686.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5709
KY417145.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5902
KY417144.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5902
KY417147.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5902
KY417148.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5902
KY417143.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5902
KT444582.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5902
KC881005.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5902
KC881006.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5902
KF367457.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5902
KY417152.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5902
KY417146.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5902
KY417151.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5902
KY417142.1	DYVIFTQTTETAHSCNVNRFNVAITRAKIGILCIMS	DRDLYDKLQFTSLEVPRRNVATLQ	5902
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MW532698.1	AENVNTGLFKDCSKVITGLHPTQAPTYLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5977
MT040336.1	AENVNTGLFKDCSKVITGLHPTQAPTYLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5977
MT040335.1	AENVNTGLFKDCSKVITGLHPTQAPTYLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5977
MT040334.1	AENVNTGLFKDCSKVITGLHPTQAPTYLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5977
MT040333.1	AENVNTGLFKDCSKVITGLHPTQAPTYLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5977
MN996532.2	AENVNTGLFKDCSKVITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5984
MN988713.1	AENVNTGLFKDCSKVITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5985
MT093571.1	AENVNTGLFKDCSKVITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5985
MN996529.1	AENVNTGLFKDCSKVITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5985
MT072688.1	AENVNTGLFKDCSKVITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5985
NC_045512.2	AENVNTGLFKDCSKVITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5985
MN994467.1	AENVNTGLFKDCSKVITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5985
MG772933.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5981
MG772934.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5959
NC_014470.1	AENVNTGLFKDCSKIITGLHPTQAPTYLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5953
GQ153542.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5960
DQ022305	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5956
KF569996.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5899
KP886809.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
AY278488.2	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDIKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
AY485277.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDIKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
AP006560.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDIKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
AP006557.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDIKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
AY274119	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDIKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
AY572038.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDIKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
AY572034.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDIKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
FJ588686.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5769
KY417145.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
KY417144.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
KY417147.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
KY417148.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
KY417143.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
KT444582.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
KC881005.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
KC881006.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
KF367457.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
KY417152.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
KY417146.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
KY417151.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
KY417142.1	AENVNTGLFKDCSKIITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPKDMTYRRLISMMGF	5962
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MW532698.1	KMNYQVNGYPNMFITREEAIKHVRAWVGFDVEGCHATREAVGTNLPLQLGFSTGVNLVAV	6037
MT040336.1	KMNYQVNGYPNMFITREEAIKHVRAWVGFDVEGCHATREAVGTNLPLQLGFSTGVNLVAV	6037
MT040335.1	KMNYQVNGYPNMFITREEAIKHVRAWVGFDVEGCHATREAVGTNLPLQLGFSTGVNLVAV	6037
MT040334.1	KMNYQVNGYPNMFITREEAIKHVRAWVGFDVEGCHATREAVGTNLPLQLGFSTGVNLVAV	6037
MT040333.1	KMNYQVNGYPNMFITREEAIKHVRAWVGFDVEGCHATREAVGTNLPLQLGFSTGVNLVAV	6037
MN996532.2	KMNYQVNGYPNMFITREEAVRHVRAWIGFDVEGCHATREAVGTNLPLQLGFSTGVNLVAV	6044
MN988713.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATREAVGTNLPLQLGFSTGVNLVAV	6045
MT093571.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATREAVGTNLPLQLGFSTGVNLVAV	6045
MN996529.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATREAVGTNLPLQLGFSTGVNLVAV	6045
MT072688.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATREAVGTNLPLQLGFSTGVNLVAV	6045
NC_045512.2	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATREAVGTNLPLQLGFSTGVNLVAV	6045
MN994467.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATREAVGTNLPLQLGFSTGVNLVAV	6045
MG772933.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6041
MG772934.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVTV	6019
NC_014470.1	KMNYQVNGYPNMFITREEAIKHVRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6013
GQ153542.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6020
DQ022305	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6016
KF569996.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	5959
KP886809.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
AY278488.2	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
AY485277.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
AP006560.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
AP006557.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
AY274119	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
AY572038.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
AY572034.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
FJ588686.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	5829
KY417145.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
KY417144.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
KY417147.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
KY417148.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
KY417143.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
KT444582.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
KC881005.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
KC881006.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
KF367457.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
KY417152.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
KY417146.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
KY417151.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
KY417142.1	KMNYQVNGYPNMFITREEAIRHVRRAWIGFDVEGCHATRDVGTNLPLQLGFSTGVNLVAV	6022
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MW532698.1	PTGYVDTPNATEFSRVS	AKPPPGDQFKHLIPLMYKGLPWNIVRIKIVQMLSDTLKNLS	DR	6097	
MT040336.1	PTGYVDTSNATEFSRVS	AKPPPGDQFKHLIPLMYKGLPWNIVRIKIVQMLSDTLKNLS	DR	6097	
MT040335.1	PTGYVDTSNATEFSRVS	AKPPPGDQFKHLIPLMYKGLPWNIVRIKIVQMLSDTLKNLS	DR	6097	
MT040334.1	PTGYVDTSNATEFSRVS	AKPPPGDQFKHLIPLMYKGLPWNIVRIKIVQMLSDTLKNLS	DR	6097	
MT040333.1	PTGYVDTSNATEFSRVS	AKPPPGDQFKHLIPLMYKGLPWNIVRIKIVQMLSDTLKNLS	DR	6097	
MN996532.2	PTGYVDTPNNTDFSRVS	AKPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKNLS	DR	6104
MN988713.1	PTGYVDTPNNTDFSRVS	AKPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKNLS	DR	6105
MT093571.1	PTGYVDTPNNTDFSRVS	AKPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKNLS	DR	6105
MN996529.1	PTGYVDTPNNTDFSRVS	AKPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKNLS	DR	6105
MT072688.1	PTGYVDTPNNTDFSRVS	AKPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKNLS	DR	6105
NC_045512.2	PTGYVDTPNNTDFSRVS	AKPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKNLS	DR	6105
MN994467.1	PTGYVDTPNNTDFSRVS	AKPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKNLS	DR	6105
MG772933.1	PTGYVDTTEHSTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6101
MG772934.1	PTGYVDTTENSTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6079
NC_014470.1	PTGYVDTSAATEFSRVNA	KPPPGDQFKHLIPLMYKGLPWNIVRV	IKIVQMLSDTLKGLS	DR	6073
GQ153542.1	PTGYVDTTENSTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLRGLS	DR	6080
DQ022305	PTGYVDTTENSTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6076
KF569996.1	PTGYVDTTENNTEVTRVNA	KPPPGDQFKHLIPLMYKGLPWNIVR	IKIVQMLSDTLKGLS	DR	6019
KP886809.1	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
AY278488.2	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
AY485277.1	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
AP006560.1	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
AP006557.1	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
AY274119	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
AY572038.1	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
AY572034.1	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
FJ588686.1	PTGYVDTTENNTECTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	5889
KY417145.1	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
KY417144.1	PTGYVDTTENNTEFTRVNA	RPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
KY417147.1	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
KY417148.1	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
KY417143.1	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
KT444582.1	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNIVR	IKIVQMLNDTLKGLS	DR	6082
KC881005.1	PTGYVDTTENNTEFTRVNA	RPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
KC881006.1	PTGYVDTTENNTEFTRVNA	RPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
KF367457.1	PTGYVDTTENNTEFTRVNA	RPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
KY417152.1	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
KY417146.1	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
KY417151.1	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
KY417142.1	PTGYVDTTENNTEFTRVNA	KPPPGDQFKHLIPLMYKGLPWNVVR	IKIVQMLSDTLKGLS	DR	6082
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MW532698.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFCTASDTYACWHHSVGFDYVYNPF	6157
MT040336.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFCTASDTYACWHHSVGFDYVYNPF	6157
MT040335.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFCTASDTYACWHHSVGFDYVYNPF	6157
MT040334.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFCTASDTYACWHHSVGFDYVYNPF	6157
MT040333.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFCTASDTYACWHHSVGFDYVYNPF	6157
MN996532.2	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTASDTYACWHHSIGFDYVYNPF	6164
MN988713.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDRRATCFSTASDTYACWHHSIGFDYVYNPF	6165
MT093571.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDRRATCFSTASDTYACWHHSIGFDYVYNPF	6165
MN996529.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDRRATCFSTASDTYACWHHSIGFDYVYNPF	6165
MT072688.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDRRATCFSTASDTYACWHHSIGFDYVYNPF	6165
NC_045512.2	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDRRATCFSTASDTYACWHHSIGFDYVYNPF	6165
MN994467.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDRRATCFSTASDTYACWHHSIGFDYVYNPF	6165
MG772933.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6161
MG772934.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6139
NC_014470.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWHHSGFDYVYNPF	6133
GQ153542.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6140
DQ022305	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6136
KF569996.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6079
KP886809.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
AY278488.2	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
AY485277.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
AP006560.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
AP006557.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
AY274119	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
AY572038.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
AY572034.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
FJ588686.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDRRATCFSTSSDTYACWNHSGFDYVYNPF	5949
KY417145.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
KY417144.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
KY417147.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
KY417148.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
KY417143.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
KT444582.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
KC881005.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
KC881006.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
KF367457.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
KY417152.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
KY417146.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
KY417151.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142
KY417142.1	VVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSGFDYVYNPF	6142

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MW532698.1	MIDVQQWGFTGNLQSNHDQYCVHGNAHVASCDAIMTRCLAVHECFVKRVDWTIEYPIIG	6217
MT040336.1	MIDVQQWGFTGNLQSNHDQYCVHGNAHVASCDAIMTRCLAVHECFVKRVDWTIEYPIIG	6217
MT040335.1	MIDVQQWGFTGNLQSNHDQYCVHGNAHVASCDAIMTRCLAVHECFVKRVDWTIEYPIIG	6217
MT040334.1	MIDVQQWGFTGNLQSNHDQYCVHGNAHVASCDAIMTRCLAVHECFVKRVDWTIEYPIIG	6217
MT040333.1	MIDVQQWGFTGNLQSNHDQYCVHGNAHVASCDAIMTRCLAVHECFVKRVDWTIEYPIIG	6217
MN996532.2	MIDVQQWGFTGNLQSNHDLYCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWTIEYPIIG	6224
MN988713.1	MIDVQQWGFTGNLQSNHDLYCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWTIEYPIIG	6225
MT093571.1	MIDVQQWGFTGNLQSNHDLYCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWTIEYPIIG	6225
MN996529.1	MIDVQQWGFTGNLQSNHDLYCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWTIEYPIIG	6225
MT072688.1	MIDVQQWGFTGNLQSNHDLYCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWTIEYPIIG	6225
NC_045512.2	MIDVQQWGFTGNLQSNHDLYCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWTIEYPIIG	6225
MN994467.1	MIDVQQWGFTGNLQSNHDLYCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWTIEYPIIG	6225
MG772933.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6221
MG772934.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6199
NC_014470.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6193
GQ153542.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSIEYPIIG	6200
DQ022305	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6196
KF569996.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6139
KP886809.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
AY278488.2	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
AY485277.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
AP006560.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
AP006557.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
AY274119	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
AY572038.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
AY572034.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
FJ588686.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6009
KY417145.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
KY417144.1	TIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
KY417147.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
KY417148.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
KY417143.1	MIDVQQWGFTGNLQSNHDQYCVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
KT444582.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
KC881005.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
KC881006.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
KF367457.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
KY417152.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
KY417146.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
KY417151.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
KY417142.1	MIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIG	6202
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MW532698.1	DELKINAACRKVQHMVVKAALLADKFPVLHDI GNPKAIKCV PQADTDWKFYDAQPCSDKA	6277
MT040336.1	DELKINAACRKVQHMVVKAALLADKFPVLHDI GNPKAIKCV PQADTDWKFYDAQPCSDKA	6277
MT040335.1	DELKINAACRKVQHMVVKAALLADKFPVLHDI GNPKAIKCV PQADTDWKFYDAQPCSDKA	6277
MT040334.1	DELKINAACRKVQHMVVKAALLADKFPVLHDI GNPKAIKCV PQADTDWKFYDAQPCSDKA	6277
MT040333.1	DELKINAACRKVQHMVVKAALLADKFPVLHDI GNPKAIKCV PQADTDWKFYDAQPCSDKA	6277
MN996532.2	DELKINAACRKVQHMVVKAALLADKFPVLHDI GNPKAIKCV PQADV EWKFYDAQPCSDKA	6284
MN988713.1	DELKINAACRKVQHMVVKAALLADKFPVLHDI GNPKAIKCV PQADV EWKFYDAQPCSDKA	6285
MT093571.1	DELKINAACRKVQHMVVKAALLADKFPVLHDI GNPKAIKCV PQADV EWKFYDAQPCSDKA	6285
MN996529.1	DELKINAACRKVQHMVVKAALLADKFPVLHDI GNPKAIKCV PQADV EWKFYDAQPCSDKA	6285
MT072688.1	DELKINAACRKVQHMVVKAALLADKFPVLHDI GNPKAIKCV PQADV EWKFYDAQPCSDKA	6285
NC_045512.2	DELKINAACRKVQHMVVKAALLADKFPVLHDI GNPKAIKCV PQADV EWKFYDAQPCSDKA	6285
MN994467.1	DELKINAACRKVQHMVVKAALLADKFPVLHDI GNPKAIKCV PQADV EWKFYDAQPCSDKA	6285
MG772933.1	DELKINAACRKVQHMVKS ALLADKFPVLHDI GNPKAIRC VPQAEVD WKFYDAQPCSDKA	6281
MG772934.1	DELKINAACRKVQHMVKS ALLADKFPVLHDI GNPKAIRC VPQAEVD WKFYDAQPCSDKA	6259
NC_014470.1	DELRINVACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQADV EWKFYDVQPCSDKA	6253
GQ153542.1	DELKINAACRKVQHMMVKS ALLADKFPVLHDI GNPKAIRC VPQAEVD WKFYDAQPCIDKA	6260
DQ022305	DELKINAACRKVQHMVKS ALLADKFTVLHDI GNPKAIRC VPQAEVD WKFYDAQPCSDKA	6256
KF569996.1	DELKINAACRKVQHMVKS ALLADKFS VLHDI GNPKAIKCV PQAEVD WKFYDAQPCSDKA	6199
KP886809.1	DELKINSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
AY278488.2	DELRVNSACRKVQHMMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
AY485277.1	DELRVNSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
AP006560.1	DELRVNSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
AP006557.1	DELRVNSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
AY274119	DELRVNSACRKVQHMMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
AY572038.1	DELRVNSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
AY572034.1	DELRVNSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
FJ588686.1	DELKINSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6069
KY417145.1	DELKINSACRKVQHMVKS ALLADKFPVLYDIGNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
KY417144.1	DELKINSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
KY417147.1	DELKINSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
KY417148.1	DELKINSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
KY417143.1	DELKINSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
KT44582.1	EELKINSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
KC881005.1	DELKINSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
KC881006.1	DELKINSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
KF367457.1	DELKINSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
KY417152.1	DELKINSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
KY417146.1	DELKINSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
KY417151.1	DELKINSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
KY417142.1	DELKINSACRKVQHMVKS ALLADKFPVLHDI GNPKAIKCV PQAEVEWKFYDAQPCSDKA	6262
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MW532698.1	YKIEELFYSYATHSDKFKDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6337
MT040336.1	YKIEELFYSYATHSDKFKDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6337
MT040335.1	YKIEELFYSYATHSDKFKDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6337
MT040334.1	YKIEELFYSYATHSDKFKDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6337
MT040333.1	YKIEELFYSYATHSDKFKDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6337
MN996532.2	YKIEELFYSYATHSDKFKDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6344
MN988713.1	YKIEELFYSYATHSDKFKDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6345
MT093571.1	YKIEELFYSYATHSDKFKDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6345
MN996529.1	YKIEELFYSYATHSDKFKDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6345
MT072688.1	YKIEELFYSYATHSDKFKDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6345
NC_045512.2	YKIEELFYSYATHSDKFKDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6345
MN994467.1	YKIEELFYSYATHSDKFKDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6345
MG772933.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6341
MG772934.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6319
NC_014470.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6313
GQ153542.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6320
DQ022305	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6316
KF569996.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6259
KP886809.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
AY278488.2	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
AY485277.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
AP006560.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
AP006557.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
AY274119	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
AY572038.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
AY572034.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
FJ588686.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6129
KY417145.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
KY417144.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
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KY417148.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
KY417143.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
KT444582.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAFVCKFDTRVLSNLSNLPGLDGGSLY	6322
KC881005.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
KC881006.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
KF367457.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
KY417152.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
KY417146.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
KY417151.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
KY417142.1	YKIEELFYSYATHHDKFTDGVCLFWNCNVDYRYPANAIVCRFDTRVLSNLSNLPGLDGGSLY	6322
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MW532698.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6397
MT040336.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6397
MT040335.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6397
MT040334.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6397
MT040333.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6397
MN996532.2	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6404
MN988713.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6405
MT093571.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6405
MN996529.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6405
MT072688.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6405
NC_045512.2	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6405
MN994467.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6405
MG772933.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6401
MG772934.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6379
NC_014470.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6373
GQ153542.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6380
DQ022305	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6376
KF569996.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6319
KP886809.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
AY278488.2	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
AY485277.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
AP006560.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
AP006557.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
AY274119	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
AY572038.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
AY572034.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
FJ588686.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6189
KY417145.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
KY417144.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
KY417147.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
KY417148.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
KY417143.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
KT444582.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
KC881005.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
KC881006.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
KF367457.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
KY417152.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
KY417146.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
KY417151.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
KY417142.1	VNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPCESHGKQVVS	6382
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MW532698.1	GAVCRHHANEYRLYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAFNVINKG	6457
MT040336.1	GAVCRHHANEYRLYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAFNVINKG	6457
MT040335.1	GAVCRHHANEYRLYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAFNVINKG	6457
MT040334.1	GAVCRHHANEYRLYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAFNVINKG	6457
MT040333.1	GAVCRHHANEYRLYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAFNVINKG	6457
MN996532.2	GAVCRHHANEYRLYLDAYNMMISAGFSLWVYKQFDTYNLWNTFTRLQSLNVAFNVVNG	6464
MN988713.1	GAVCRHHANEYRLYLDAYNMMISAGFSLWVYKQFDTYNLWNTFTRLQSLNVAFNVVNG	6465
MT093571.1	GAVCRHHANEYRLYLDAYNMMISAGFSLWVYKQFDTYNLWNTFTRLQSLNVAFNVVNG	6465
MN996529.1	GAVCRHHANEYRLYLDAYNMMISAGFSLWVYKQFDTYNLWNTFTRLQSLNVAFNVVNG	6465
MT072688.1	GAVCRHHANEYRLYLDAYNMMISAGFSLWVYKQFDTYNLWNTFTRLQSLNVAFNVVNG	6465
NC_045512.2	GAVCRHHANEYRLYLDAYNMMISAGFSLWVYKQFDTYNLWNTFTRLQSLNVAFNVVNG	6465
MN994467.1	GAVCRHHANEYRLYLDAYNMMISAGFSLWVYKQFDTYNLWNTFTRLQSLNVAFNVVNG	6465
MG772933.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTKLQSLNVAYNVINKG	6461
MG772934.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTKLQSLNVAYNVINKG	6439
NC_014470.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6433
GQ153542.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTKLQSLNVAYNVVNG	6440
DQ022305	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTKLQSLNVAYNVVNG	6436
KF569996.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6379
KP886809.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
AY278488.2	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
AY485277.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
AP006560.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
AP006557.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
AY274119	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
AY572038.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
AY572034.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
FJ588686.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6249
KY417145.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
KY417144.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
KY417147.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
KY417148.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
KY417143.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
KT444582.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
KC881005.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
KC881006.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
KF367457.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
KY417152.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
KY417146.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
KY417151.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
KY417142.1	GAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLNVAYNVVNG	6442
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MW532698.1	HFDGQQGETPVSIVNNTVYTKVDGVDVELFENKTILPVNVAFELWAKRNIKPVEVKILN	6517
MT040336.1	HFDGQQGETPVSIVNNTVYTKVDGVDVELFENKTTLPVNVAFELWAKRNIKPVEVKILN	6517
MT040335.1	HFDGQQGETPVSIVNNTVYTKVDGVDVELFENKTTLPVNVAFELWAKRNIKPVEVKILN	6517
MT040334.1	HFDGQQGETPVSIVNNTVYTKVDGVDVELFENKTTLPVNVAFELWAKRNIKPVEVKILN	6517
MT040333.1	HFDGQQGETPVSIVNNTVYTKVDGVDVELFENKTTLPVNVAFELWAKRNIKPVEVKILN	6517
MN996532.2	HFDGQQGEVPVSIINNNTVYTKVDGVDVELFENKTTLPVNVAFELWAKRNIKPVEVKILN	6524
MN988713.1	HFDGQQGEVPVSIINNNTVYTKVDGVDVELFENKTTLPVNVAFELWAKRNIKPVEVKILN	6525
MT093571.1	HFDGQQGEVPVSIINNNTVYTKVDGVDVELFENKTTLPVNVAFELWAKRNIKPVEVKILN	6525
MN996529.1	HFDGQQGEVPVSIINNNTVYTKVDGVDVELFENKTTLPVNVAFELWAKRNIKPVEVKILN	6525
MT072688.1	HFDGQQGEVPVSIINNNTVYTKVDGVDVELFENKTTLPVNVAFELWAKRNIKPVEVKILN	6525
NC_045512.2	HFDGQQGEVPVSIINNNTVYTKVDGVDVELFENKTTLPVNVAFELWAKRNIKPVEVKILN	6525
MN994467.1	HFDGQQGEVPVSIINNNTVYTKVDGVDVELFENKTTLPVNVAFELWAKRNIKPVEVKILN	6525
MG772933.1	HFDGQNGEAPVSIINNAVYTKLDGVDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6521
MG772934.1	HFDGQSGEAPVSIINNAVYTKVDGIDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6499
NC_014470.1	HFDGQQGEKPVSIINNNTVYTKVDGVDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6493
GQ153542.1	HFDGQSGEAPVSIINNAVYTKVDGIDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6500
DQ022305	HFDGQSGEAPVSIINNAVYTKVDGIDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6496
KF569996.1	HFDGQTGEAPVSIINNAVYTKVDGVDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6439
KP886809.1	HFDGQAGEAPVSIINNAVYTKVDGVDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
AY278488.2	HFDGHAGEAPVSIINNAVYTKVDGIDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
AY485277.1	HFDGHAGEAPVSIINNAVYTKVDGIDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
AP006560.1	HFDGHAGEAPVSIINNAVYTKVDGIDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
AP006557.1	HFDGHAGEAPVSIINNAVYTKVDGIDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
AY274119	HFDGHAGEAPVSIINNAVYTKVDGIDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
AY572038.1	HFDGHAGEAPVSIINNAVYTKVDGIDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
AY572034.1	HFDGHAGEAPVSIINNAVYTKVDGIDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
FJ588686.1	HFDGQAGEAPVSVINNAVYTKVDGIDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6309
KY417145.1	HFDGQAGEAPVSIINNAVYTKVDGVDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
KY417144.1	YFDGQAGEAPVSIINNAVYTKVDGVDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
KY417147.1	HFDGQAGEAPVSIINNAVYTKVDGVDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
KY417148.1	HFDGQAGEAPVSIINNAVYTKVDGVDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
KY417143.1	HFDGQAGEAPVSIINNAVYTKVDGVDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
KT444582.1	HFDGQAGEAPVSIINNAVYTKVDGIDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
KC881005.1	HFDGQAGEAPVSIINNAVYTKVDGVDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
KC881006.1	HFDGQAGEAPVSIINNAVYTKVDGVDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
KF367457.1	HFDGQAGEAPVSIINNAVYTKVDGVDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
KY417152.1	HFDGQAGEAPVSIINNAVYTKVDGVDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
KY417146.1	HFDGQAGEAPVSIINNAVYTKVDGIDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
KY417151.1	HFDGQAGEAPVSIINNAVYTKVDGVDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502
KY417142.1	HFDGQAGEAPVSIINNAVYTKVDGVDVEIFENKTTLPVNVAFELWAKRNIKPVEIKILN	6502

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MW532698.1	NLGVDIAANTVIWDYKREAPAHVSTIGVCTMTDIAKKSTETACSPILTILFDGRVEGQVDL	6577
MT040336.1	NLGVDIAANTVIWDYKREAPAHVSTIGVCTMTDIAKKSTETACSPILTILFDGRVEGQVDL	6577
MT040335.1	NLGVDIAANTVIWDYKREAPAHVSTIGVCTMTDIAKKSTETACSPILTILFDGRVEGQVDL	6577
MT040334.1	NLGVDIAANTVIWDYKREAPAHVSTIGVCTMTDIAKKSTETACSPILTILFDGRVEGQVDL	6577
MT040333.1	NLGVDIAANTVIWDYKREAPAHVSTIGVCTMTDIAKKSTETACSPILTILFDGRVEGQVDL	6577
MN996532.2	NLGVDIAANTVIWDYKRDAPAHISTIGVCSMTDIAKKPTENICAPLTVFFDGRVNGQVDL	6584
MN988713.1	NLGVDIAANTVIWDYKRDAPAHISTIGVCSMTDIAKKPTETICAPLTVFFDGRVDGQVDL	6585
MT093571.1	NLGVDIAANTVIWDYKRDAPAHISTIGVCSMTDIAKKPTETICAPLTVFFDGRVDGQVDL	6585
MN996529.1	NLGVDIAANTVIWDYKRDAPAHISTIGVCSMTDIAKKPTETICAPLTVFFDGRVDGQVDL	6585
MT072688.1	NLGVDIAANTVIWDYKRDAPAHISTIGVCSMTDIAKKPTETICAPLTVFFDGRVDGQVDL	6585
NC_045512.2	NLGVDIAANTVIWDYKRDAPAHISTIGVCSMTDIAKKPTETICAPLTVFFDGRVDGQVDL	6585
MN994467.1	NLGVDIAANTVIWDYKRDAPAHISTIGVCSMTDIAKKPTETICAPLTVFFDGRVDGQVDL	6585
MG772933.1	NLGVDIAANTVIWDYKREAPAHVSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6581
MG772934.1	NLGVDIAANTVIWDHKREAPAHVSTIGVCTMTDIAEKPTENACSSLTFLFDGRVEGQANL	6559
NC_014470.1	NLGVDIAANTVIWDYKRESPAYISTIGVCTMTDIAKKPTENACSSLTFLFDGRVDGQVDS	6553
GQ153542.1	NLGVDIAANTVIWDYKKEAPAYVSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6560
DQ022305	NLGVDIAANNVIWDYKREAPAHVSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDF	6556
KF569996.1	NLGVDIAANTVIWDYKREAPAHVSTIGVCTMTDIAKKPTESACSSLTFLFDGRAEGQVDL	6499
KP886809.1	NLGVDIAANTVIWDYKREAPAHMSTIGVSTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
AY278488.2	NLGVDIAANTVIWDYKREAPAHVSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
AY485277.1	NLGVDIAANTVIWDYKREAPAHVSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
AP006560.1	NLGVDIAANTVIWDYKREAPAHVSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
AP006557.1	NLGVDIAANTVIWDYKREAPAHVSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
AY274119	NLGVDIAANTVIWDYKREAPAHVSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
AY572038.1	NLGVDIAANTVIWDYKREAPAHVSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
AY572034.1	NLGVDIAANTVIWDYKREAPAHVSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
FJ588686.1	NLGVDIAANTVIWDYNREAPAHVSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6369
KY417145.1	NLGVDIAANTVVWDYKREAPAHMSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
KY417144.1	NLGVDIAANTVVWDYKREAPAHMSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
KY417147.1	NLGVDIAANTVVWDYKREAPAHMSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
KY417148.1	NLGVDIAANTVVWDYKREAPAHMSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
KY417143.1	NLGVDIAANTVVWDYKREAPAHMSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
KT444582.1	NLGVDIAANTVIWDYKREAPAHMSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
KC881005.1	NLGVDIAANTVVWDYKREAPAHMSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
KC881006.1	NLGVDIAANTVVWDYKREAPAHMSTIGVCTMTDIAKKPTESACSSLTFLFDGRVVGQADL	6562
KF367457.1	NLGVDIAANTVVWDYKREAPAHMSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
KY417152.1	NLGVDIAANTVVWDYKREAPAHMSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
KY417146.1	NLGVDIAANTVIWDYKREAPAHMSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
KY417151.1	NLGVDIAANTVVWDYKREAPAHMSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562
KY417142.1	NLGVDIAANTVVWDYKREAPAHMSTIGVCTMTDIAKKPTESACSSLTFLFDGRVEGQVDL	6562

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MW532698.1	FRNARNGVLITEGNVKGGLQPSVGPKQASLNGVTLIGEAVKTQFNYYKKVDGTVVQQLPETY	6637
MT040336.1	FRNARNGVLITEGNVKGGLQPSVGPKQASLNGVTLIGEAVKTQFNYYKKVDGTVVQQLPETY	6637
MT040335.1	FRNARNGVLITEGNVKGGLQPSVGPKQASLNGVTLIGEAVKTQFNYYKKVDGTVVQQLPETY	6637
MT040334.1	FRNARNGVLITEGNVKGGLQPSVGPKQASLNGVTLIGEAVKTQFNYYKKVDGTVVQQLPETY	6637
MT040333.1	FRNARNGVLITEGNVKGGLQPSVGPKQASLNGVTLIGEAVKTQFNYYKKVDGTVVQQLPETY	6637
MN996532.2	FRNARNGVLITEGSKVKGGLQPSVGPKQASLNGVTLIGEALKTQFNYYKKVNGVVQQLPETY	6644
MN988713.1	FRNARNGVLITEGSKVKGGLQPSVGPKQASLNGVTLIGEAVKTQFNYYKKVDGTVVQQLPETY	6645
MT093571.1	FRNARNGVLITEGSKVKGGLQPSVGPKQASLNGVTLIGEAVKTQFNYYKKVDGTVVQQLPETY	6645
MN996529.1	FRNARNGVLITEGSKVKGGLQPSVGPKQASLNGVTLIGEAVKTQFNYYKKVDGTVVQQLPETY	6645
MT072688.1	FRNARNGVLITEGSKVKGGLQPSVGPKQASLNGVTLIGEAVKTQFNYYKKVDGTVVQQLPETY	6645
NC_045512.2	FRNARNGVLITEGSKVKGGLQPSVGPKQASLNGVTLIGEAVKTQFNYYKKVDGTVVQQLPETY	6645
MN994467.1	FRNARNGVLITEGSKVKGGLQPSVGPKQASLNGVTLIGEAVKTQFNYYKKVDGTVVQQLPETY	6645
MG772933.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6641
MG772934.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6619
NC_014470.1	FRNARNGVLITEGSKVGLNPSKGPPQASLNGVTLIGESVKTQFNYYKKVDGTVVQQLPETY	6613
GQ153542.1	FRNARNGVLITEGSKVGLTPSKGPIQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6620
DQ022305	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6616
KF569996.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6659
KP886809.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
AY278488.2	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
AY485277.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
AP006560.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
AP006557.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
AY274119	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
AY572038.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
AY572034.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
FJ588686.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPEAY	6429
KY417145.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
KY417144.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
KY417147.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
KY417148.1	FRNARNGVLITEGSKVGLIPSKGPVQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
KY417143.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
KT444582.1	FRNARNGVLITEGSKVGLIPSKGPVQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
KC881005.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
KC881006.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
KF367457.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
KY417152.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
KY417146.1	FRNARNGVLITEGSKVGLIPSKGPVQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
KY417151.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
KY417142.1	FRNARNGVLITEGSKVGLTPSKGPAQASVNGVTLIGESVKTQFNYYKKVDGIIQQLPETY	6622
	*****.**** ** ** ***:*****:*****:***:*.*****:*	

MW532698.1	FTQSRNLQEFKPRSQMEIDFLELAMDEFIERYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6697
MT040336.1	FTQSRNLQEFKPRSQMEIDFLELAMDEFIERYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6697
MT040335.1	FTQSRNLQEFKPRSQMEIDFLELAMDEFIERYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6697
MT040334.1	FTQSRNLQEFKPRSQMEIDFLELAMDEFIERYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6697
MT040333.1	FTQSRNLQEFKPRSQMEIDFLELAMDEFIERYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6697
MN996532.2	FTQSRNLKEFKPRSQMEIDFLELAMDEFIERYKLEGYAFEHIVYGDFSHRQLGGLHLLIG	6704
MN988713.1	FTQSRNLQEFKPRSQMEIDFLELAMDEFIERYKLEGYAFEHIVYGDFSHSQLGGLHLLIG	6705
MT093571.1	FTQSRNLQEFKPRSQMEIDFLELAMDEFIERYKLEGYAFEHIVYGDFSHSQLGGLHLLIG	6705
MN996529.1	FTQSRNLQEFKPRSQMEIDFLELAMDEFIERYKLEGYAFEHIVYGDFSHSQLGGLHLLIG	6705
MT072688.1	FTQSRNLQEFKPRSQMEIDFLELAMDEFIERYKLEGYAFEHIVYGDFSHSQLGGLHLLIG	6705
NC_045512.2	FTQSRNLQEFKPRSQMEIDFLELAMDEFIERYKLEGYAFEHIVYGDFSHSQLGGLHLLIG	6705
MN994467.1	FTQSRNLQEFKPRSQMEIDFLELAMDEFIERYKLEGYAFEHIVYGDFSHSQLGGLHLLIG	6705
MG772933.1	FTQSRDLEDKPRSQMETDFLELAMDEFIERYKLDGYAFEHIVYGDFSHGQLGGLHLLIG	6701
MG772934.1	FTQSRDLEDKPRSQMETDFLELAMDEFIERYKLDGYAFEHIVYGDFSHGQLGGLHLLIG	6679
NC_014470.1	FTQSRSLDDFKPRSQMEVDFLQLAMDEFIERYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6673
GQ153542.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6680
DQ022305	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6676
KF569996.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6619
KP886809.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
AY278488.2	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
AY485277.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
AP006560.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
AP006557.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
AY274119	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
AY572038.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
AY572034.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
FJ588686.1	FTQSRDLENFKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6489
KY417145.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
KY417144.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
KY417147.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
KY417148.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
KY417143.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
KT444582.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
KC881005.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
KC881006.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
KF367457.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
KY417152.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
KY417146.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
KY417151.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682
KY417142.1	FTQSRDLEDKPRSQMETDFLELAMDEFIORYKLEGYAFEHIVYGDFSHGQLGGLHLLIG	6682

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MW532698.1	LAKRSKDSPLELEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6757
MT040336.1	LAKRSKDSPLELEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6757
MT040335.1	LAKRSKDSPLELEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6757
MT040334.1	LAKRSKDSPLELEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6757
MT040333.1	LAKRSKDSPLELEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6757
MN996532.2	LAKRSKDSPLELEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6764
MN988713.1	LAKRFKESPFLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6765
MT093571.1	LAKRFKESPFLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6765
MN996529.1	LAKRFKESPFLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6765
MT072688.1	LAKRFKESPFLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6765
NC_045512.2	LAKRFKESPFLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6765
MN994467.1	LAKRFKESPFLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6765
MG772933.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6761
MG772934.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6739
NC_014470.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6733
GQ153542.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKAQDLSV	6740
DQ022305	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6736
KF569996.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6679
KP886809.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
AY278488.2	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
AY485277.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
AP006560.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
AP006557.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
AY274119	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
AY572038.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
AY572034.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
FJ588686.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6549
KY417145.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
KY417144.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
KY417147.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
KY417148.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
KY417143.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
KT444582.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
KC881005.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
KC881006.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
KF367457.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
KY417152.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
KY417146.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
KY417151.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
KY417142.1	LAKRSQDSSLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLDDFVEI IKSQDLSV	6742
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MW532698.1	VSKVVKVTIDYAEIAFMLWCKDGHVETFYPKLQSSQAWQPGVAMPNLYKMQRMLLDKCDL	6817
MT040336.1	VSKVVKVTIDYAEIAFMLWCKDGHVETFYPKLQSSQAWQPGVAMPNLYKMQRMLLDKCDL	6817
MT040335.1	VSKVVKVTIDYAEIAFMLWCKDGHVETFYPKLQSSQAWQPGVAMPNLYKMQRMLLDKCDL	6817
MT040334.1	VSKVVKVTIDYAEIAFMLWCKDGHVETFYPKLQSSQAWQPGVAMPNLYKMQRMLLDKCDL	6817
MT040333.1	VSKVVKVTIDYAEIAFMLWCKDGHVETFYPKLQSSQAWQPGVAMPNLYKMQRMLLDKCDL	6817
MN996532.2	VSKVVKVTIDYTEISFMLWCKDGHVETFYPKLQSSQAWQPGVAMPNLYKMQRMLLEKCDL	6824
MN988713.1	VSKVVKVTIDYTEISFMLWCKDGHVETFYPKLQSSQAWQPGVAMPNLYKMQRMLLEKCDL	6825
MT093571.1	VSKVVKVTIDYTEISFMLWCKDGHVETFYPKLQSSQAWQPGVAMPNLYKMQRMLLEKCDL	6825
MN996529.1	VSKVVKVTIDYTEISFMLWCKDGHVETFYPKLQSSQAWQPGVAMPNLYKMQRMLLEKCDL	6825
MT072688.1	VSKVVKVTIDYTEISFMLWCKDGHVETFYPKLQSSQAWQPGVAMPNLYKMQRMLLEKCDL	6825
NC_045512.2	VSKVVKVTIDYTEISFMLWCKDGHVETFYPKLQSSQAWQPGVAMPNLYKMQRMLLEKCDL	6825
MN994467.1	VSKVVKVTIDYTEISFMLWCKDGHVETFYPKLQSSQAWQPGVAMPNLYKMQRMLLEKCDL	6825
MG772933.1	VSKVVKVTIDYTEISFMLWCKDGHVETFYPKLQSSQAWQPGVAMPNLYKMQRMLLEKCDL	6821
MG772934.1	VSKVVKVTIDYTEISFMLWCKDGHVETFYPKLQSSQAWQPGVAMPNLYKMQRMLLEKCDL	6799
NC_014470.1	VSKVVKVTIDYAEISFMLWCKDGHVETFYPKLQANQTWQPGVAMPNLYKMQRMLLDKCDL	6793
GQ153542.1	ISKVVKVTIDYAEISFMLWCKNGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6800
DQ022305	VSKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6796
KF569996.1	VSKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6739
KP886809.1	ISKVVKVTIDYVEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
AY278488.2	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
AY485277.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
AP006560.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
AP006557.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
AY274119	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
AY572038.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
AY572034.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
FJ588686.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6609
KY417145.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
KY417144.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
KY417147.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
KY417148.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
KY417143.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
KT444582.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
KC881005.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
KC881006.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
KF367457.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
KY417152.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
KY417146.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
KY417151.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802
KY417142.1	ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKCDL	6802

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MW532698.1	QNYGEAATLPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6877
MT040336.1	QNYGEAATLPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6877
MT040335.1	QNYGEAATLPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6877
MT040334.1	QNYGEAATLPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6877
MT040333.1	QNYGEAATLPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6877
MN996532.2	QNYGDSATLPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6884
MN988713.1	QNYGDSATLPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6885
MT093571.1	QNYGDSATLPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6885
MN996529.1	QNYGDSATLPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6885
MT072688.1	QNYGDSATLPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6885
NC_045512.2	QNYGDSATLPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6885
MN994467.1	QNYGDSATLPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6885
MG772933.1	QNYGDSATLPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6881
MG772934.1	QNYGDSATLPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6859
NC_014470.1	HNYPGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6853
GQ153542.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6860
DQ022305	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6856
KF569996.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6799
KP886809.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
AY278488.2	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
AY485277.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
AP006560.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
AP006557.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
AY274119	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
AY572038.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
AY572034.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
FJ588686.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6669
KY417145.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
KY417144.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
KY417147.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
KY417148.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
KY417143.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
KT444582.1	RNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
KC881005.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
KC881006.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
KF367457.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
KY417152.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
KY417146.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVMHFGAGSDKGVAPGTAVLRQ	6862
KY417151.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862
KY417142.1	QNYGENAVIPKGIMMNVAKYTQLCQYLNTLTTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQ	6862

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MW532698.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTRENDSKE	6937
MT040336.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTRENDSKE	6937
MT040335.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTRENDSKE	6937
MT040334.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTRENDSKE	6937
MT040333.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTRENDSKE	6937
MN996532.2	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKNVTKENDSKE	6944
MN988713.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKNVTKENDSKE	6945
MT093571.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKNVTKENDSKE	6945
MN996529.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKNVTKENDSKE	6945
MT072688.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKNVTKENDSKE	6945
NC_045512.2	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKNVTKENDSKE	6945
MN994467.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKNVTKENDSKE	6945
MG772933.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKNVTKENDSKE	6941
MG772934.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKNVTKENDSKE	6919
NC_014470.1	WLPTGTLVDSDLNDFVSDADSTLIGDCSTVYHTANKWDLIISDMYDPKTKHILKENDSKE	6913
GQ153542.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6920
DQ022305	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVLKDNDSKE	6916
KF569996.1	WLPIGTLLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6859
KP886809.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
AY278488.2	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
AY485277.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
AP006560.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
AP006557.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
AY274119	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
AY572038.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
AY572034.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
FJ588686.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6729
KY417145.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVARENSKE	6922
KY417144.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
KY417147.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
KY417148.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
KY417143.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
KT444582.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTRENDSKE	6922
KC881005.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
KC881006.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
KF367457.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
KY417152.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
KY417146.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTRENDSKE	6922
KY417151.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
KY417142.1	WLPTGTLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPKTKHVTKENDSKE	6922
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MW532698.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6997
MT040336.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6997
MT040335.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6997
MT040334.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6997
MT040333.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6997
MN996532.2	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	7004
MN988713.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	7005
MT093571.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	7005
MN996529.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	7005
MT072688.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	7005
NC_045512.2	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	7005
MN994467.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	7005
MG772933.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	7001
MG772934.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6979
NC_014470.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6973
GQ153542.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6980
DQ022305	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6976
KF569996.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6919
KP886809.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
AY278488.2	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
AY485277.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
AP006560.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
AP006557.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
AY274119	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
AY572038.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
AY572034.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
FJ588686.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6789
KY417145.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
KY417144.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
KY417147.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
KY417148.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
KY417143.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
KT444582.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
KC881005.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
KC881006.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
KF367457.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
KY417152.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
KY417146.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
KY417151.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982
KY417142.1	GFFTYICGFIQQKLALGGSVAIKITEHSWNADLYKLMGHFAWWTAFVTVNPNASSEAFLI	6982

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MW532698.1	GCNYLGKPREQIDGYVMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKEGQI	7057
MT040336.1	GCNYLGKPREQIDGYVMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKEGQI	7057
MT040335.1	GCNYLGKPREQIDGYVMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKEGQI	7057
MT040334.1	GCNYLGKPREQIDGYVMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKEGQI	7057
MT040333.1	GCNYLGKPREQIDGYVMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKEGQI	7057
MN996532.2	GCNYLGKPREQIDGYVMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKEGQI	7064
MN988713.1	GCNYLGKPREQIDGYVMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKEGQI	7065
MT093571.1	GCNYLGKPREQIDGYVMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKEGQI	7065
MN996529.1	GCNYLGKPREQIDGYVMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKEGQI	7065
MT072688.1	GCNYLGKPREQIDGYVMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKEGQI	7065
NC_045512.2	GCNYLGKPREQIDGYVMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKEGQI	7065
MN994467.1	GCNYLGKPREQIDGYVMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKEGQI	7065
MG772933.1	GCNYLGKPREQIDGYVMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKDGQI	7061
MG772934.1	GCNYLGKPREQIDGYVMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKDGQI	7039
NC_014470.1	GVNYLGKQKESIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKDNQI	7033
GQ153542.1	GVNYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7040
DQ022305	GVNYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7036
KF569996.1	GVNYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	6979
KP886809.1	GVNYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
AY28488.2	GANYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
AY485277.1	GANYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
AP006560.1	GANYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
AP006557.1	GANYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
AY274119	GANYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
AY572038.1	GANYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
AY572034.1	GANYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
FJ588686.1	GANYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	6849
KY417145.1	GVNYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
KY417144.1	GVNYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
KY417147.1	GANYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
KY417148.1	GANYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
KY417143.1	GANYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
KT445482.1	GANYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
KC881005.1	GVNYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
KC881006.1	GVNYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
KF367457.1	GVNYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
KY417152.1	GVNYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
KY417146.1	GANYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
KY417151.1	GVNYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042
KY417142.1	GANYLGKPKQEQIDGYTMHANYIFWRNTNPIQLSSYSFLDMSKFPLKLRGTAVMSLKENQI	7042

MW532698.1	NDMILSLLSKGRLLIIRENNKVVISSDVLVNN	7088
MT040336.1	NDMILSLLSKGRLLIIRENNKVVSSDVLVNN	7088
MT040335.1	NDMILSLLSKGRLLIIRENNKVVSSDVLVNN	7088
MT040334.1	NDMILSLLSKGRLLIIRENNKVVSSDVLVNN	7088
MT040333.1	NDMILSLLSKGRLLIIRENNKVVSSDVLVNN	7088
MN996532.2	NDMILSLLSKGRLLIIRENNRVVSSDVLVNN	7095
MN988713.1	NDMILSLLSKGRLLIIRENNRVVSSDVLVNN	7096
MT093571.1	NDMILSLLSKGRLLIIRENNRVVSSDVLVNN	7096
MN996529.1	NDMILSLLSKGRLLIIRENNRVVSSDVLVNN	7096
MT072688.1	NDMILSLLSKGRLLIIRENNRVVSSDVLVNN	7096
NC_045512.2	NDMILSLLSKGRLLIIRENNRVVSSDVLVNN	7096
MN994467.1	NDMILSLLSKGRLLIIRENNRVVSSDVLVNN	7096
MG772933.1	NDMILSLLSKGRLLIIRENNRVVSSDVLVNN	7092
MG772934.1	NDMILSLLSKGRLLIIRENNRVVSSDVLVNN	7070
NC_014470.1	NDMICSLLEKGRLLIIRENNKVFSSDVLVNN	7064
GQ153542.1	NDMIYSLLEKGRLLIIRENNRVVSSDILVNN	7071
DQ022305	NDMIYSLLEKGRLLIIRENNRVVSSDILVNN	7067
KF569996.1	NEMIYSLLEKGRLLIIRENNRVVSSDILVNN	7010
KP886809.1	NDMIYSLLEKGRLLIIRENNRVVSSDVLVNN	7073
AY278488.2	NDMIYSLLEKGRLLIIRENNRVVSSDILVNN	7073
AY485277.1	NDMIYSLLEKGRLLIIRENNRVVSSDILVNN	7073
AP006560.1	NDMIYSLLEKGRLLIIRENNRVVSSDILVNN	7073
AP006557.1	NDMIYSLLEKGRLLIIRENNRVVSSDILVNN	7073
AY274119	NDMIYSLLEKGRLLIIRENNRVVSSDILVNN	7073
AY572038.1	NDMIYSLLEKGRLLIIRENNRVVSSDILVNN	7073
AY572034.1	NDMIYSLLEKGRLLIIRENNRVVSSDILVNN	7073
FJ588686.1	NDMIYSLLEKGRLLIIRENNRVVSSDVLVNN	6880
KY417145.1	NEMIYSLLENGRLLIIRENNRVVSSDVLVNN	7073
KY417144.1	NDMIYSLLEKGRLLIIRESNKVVSSDILVNI	7073
KY417147.1	NDMIYSLLEKGRLLIIRENNRVVSSDVLVNN	7073
KY417148.1	NDMIYSLLEKGRLLIIRENNRVVSSDVLVNN	7073
KY417143.1	NDMIYSLLEKGRLLIIRENNRVVSSDVLVNN	7073
KT444582.1	NDMIYSLLEKGRLLIIRENNRVVSSDILVNN	7073
KC881005.1	NDMIYSLLEKGRLLIIRESNKVVSSDILVNI	7073
KC881006.1	NDMIYSLLEKGRLLIIRESNKVVSSDILVNN	7073
KF367457.1	NDMIYSLLEKGRLLIIRESNKVVSSDILVNN	7073
KY417152.1	NDMIYSLLEKGRLLIIRESNKVVSSDILVNN	7073
KY417146.1	NDMIYSLLEKGRLLIIRENNRVVSSDILVNN	7073
KY417151.1	NDMIYSLLEKGRLLIIRESNKVVSSDILVNN	7073
KY417142.1	NDMIYSLLEKGRLLIIRENNRVVSSDVLVNN	7073
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