



022303233.1	.....MAS	.....GEERNIIILGKLGMGKSQSGNGILGLEGHFKT	35
022303234.1	.....MAS	.....GEERNIIILGKLGMGKSQSGNGILGLEGHFKT	35
022310523.1	.....MAY	.....NEERNIIILGKLGAGKSHSGNGILGIKDHFKS	35
022332185.1	ISCQEMAHAKPGNLTKADTSGAQTT...IFSEK	.....IEERRIILIGKLGAGKSHCGNGILG.KQFFES	69
022332187.1	.....MAHAKPGNLTKADTSGAQTT...IFSEK	.....IEERRIILIGKLGAGKSHCGNGILG.KQFFES	56
022332188.1	.....MAHAKPGNLTKADTSGAQTT...IFSEK	.....IEERRIILIGKLGAGKSHCGNGILG.KQFFES	56
022332605.1	.....MAHAKPGNLTKADTSGAQTT...IFSEK	.....IEERRIILIGKLGAGKSHCGNGILG.KQFFES	56
022332606.1	.....MAHAKPGNLTKADTSGAQTT...IFSEK	.....IEERRIILIGKLGAGKSHCGNGILG.KQFFES	56
022332607.1	.....MAHAKPGNLTKADTSGAQTT...IFSEK	.....IEERRIILIGKLGAGKSHCGNGILG.KQFFES	56
022332190.1	.....MNRAQTAVTQAEGATSAGEN	.....VEERRIILIGKLGAGKSHSGNGIMGKKDYFKS	52
022332191.1	.....MNRAQTAVTQAEGATSAGEN	.....VEERRIILIGKLGAGKSHSGNGIMGKKDYFKS	52
022332600.1	MSIQEVSHSQRSAMNRAQTAVTQAEGATSAGEN	.....VEERRIILIGKLGAGKSQSGNGILGEKDYFKS	65
022332601.1	MSIQEVSHSQRSAMNRAQTAVTQAEGATSAGEN	.....VEERRIILIGKLGAGKSQSGNGILGEKDYFKS	65
022332602.1	MSIQEVSHSQRSAMNRAQTAVTQAEGATSAGEN	.....VEERRIILIGKLGAGKSQSGNGILGEKDYFKS	65
022287294.1	.....MAASSELDF	.....NNEVRILLIGKTGTGKSTTGNTILG.RKAFAT	40
022287295.1	.....MAASSELDF	.....NNEVRILLIGKTGTGKSTTGNTILG.RKAFAT	40
022292452.1	VLITFPNVMSKMHCHDNKGRDKDGYCTKNSI	.....DSSNNERRILLIGKTGVGKSTTGNTILG.FDAFHT	78
022292453.1	VLITFPNVMSKMHCHDNKGRDKDGYCTKNSK	.....DSSNNERRILLIGKTGVGKSTTGNTILG.FDAFDS	78
022291927.1	VLIASPNVMSKRDYHDDN	.....DFNNNERRILLIGKTGVGKSTTGNTILG.FPAFKT	65
022295273.1	VLIVFPLISSPMDCCQDGNDEKEEGYCSTKSI	.....AINSNEIRILLIGKTGVGKSTTGNTILG.FRAFGT	82
022295274.1	VLIVFPLISSPMDCCQDGNDEKEEGYCSTKSI	.....AINSNEIRILLIGKTGVGKSTTGNTILG.FRAFGT	82
022295275.1	VLIVFPVISSPMDCCQDGNDEEEEGYCSTKSI	.....AINNDEVRIILLIGKTGVGKSTTGNTILG.FRAFD	82
022295276.1	VLIVFPVISSPMDCCQDGNDEEEEGYCSTKSI	.....AINNDEVRIILLIGKTGVGKSTTGNTILG.FRAFD	82
022295277.1	VLIVFPVISSPMDCCQDGNDEEEEGYCSTKSI	.....AINNDEVRIILLIGKTGVGKSTTGNTILG.FRAFD	82
022295278.1	VLIVFPVISSPMDCCQDGNDEEEEGYCSTKSI	.....AINNDEVRIILLIGKTGVGKSTTGNTILG.FRAFD	82
022295279.1	VLIVFPVISSPMDCCQDGNDEEEEGYCSTKSI	.....AINNDEVRIILLIGKTGVGKSTTGNTILG.FRAFD	82
022295280.1	VLIVFPLISSPMDCCQDGNDEKEEGYCSTKSI	.....AINNDEVRIILLIGKTGVGKSTTGNTILG.FRAFD	82
022295286.1	VLIVFPLISSPMDCCQYGNDEEKEEYCNSTNPI	.....AINNDEVRIILLIGKTGVGKSTTGNTILG.FHAFD	75
022295287.1	VLIVFPLISSPMDCCQYGNDEEKEEYCNSTNPI	.....AINNDEVRIILLIGKTGVGKSTTGNTILG.FHAFD	75
022295281.1	LLFAFALHNVTSQLCHSEKDKNEDGYCTKN	.....VNNNEVRILLIGKTGVGKSTTGNTILG.FRAFD	72
022295282.1	LVFAFALHNVTSQLCHSEKDKNEDGYCTKN	.....VDNNEVRILLIGKTGVGKSTTGNTILG.FRAFD	72
022294703.1	LFIAFPNTASKRVCYNVKD	.....MDHNERHLLIIGKTGTGKSSAGNAILG.FPAFNT	62
022294704.1	LFIAFPNTASKRVCYNVKD	.....MDHNERHLLIIGKTGTGKSSAGNAILG.FPAFNT	62
022294705.1	LFIAFPNTASKRVCYNVKD	.....MDHNERHLLIIGKTGTGKSSAGNAILG.FPAFNT	62
022294708.1	LFIAFPNTASKRVCYNVKD	.....MDHNERHLLIIGKTGTGKSSAGNAILG.FPAFNT	62
022295072.1	LOW QUALITY PROTEIN: ISD	.....SDSNEIRILLIGKTEAGKSCGTGNTLLD.FKAFAS	36
022287296.1	.....MAASSELDY	.....DNKVQIVLIGKTQVGKSTIGNITILG.FHAFD	40
022301435.1	TYLNHHLNLTSCVVCGFALSSNDTLLDDQINSNSRDPFKEESNFSLDHQASG	.....DDDFMKDEVIRIVLVGKTGFGKSATGNSILG.KAAFTS	100
022301436.1	TYLNHHLNLTSCVVCGFALSSNDTLLDDQINSNSRDPFKEESNFSLDHQASG	.....DDDFMKDEVIRIVLVGKTGFGKSATGNSILG.KAAFTS	102
022302475.1	TYLNKPDNTSCNICGFARSSNDEVSDDKLETETTIVWKKD	.....YYREPSPEPNDDCLKNELRIILV	106
022302477.1	.....DDCLKNELRIILV	.....GKTGSGKSATGNSILG.KAAFTS	57
022299725.1	TYLNDPIVTSCNLCGHDKTKETNKAGGMSSTGTG	.....GTDGTGSKDDEVIRIILVGRGTGAGKSATGNTILG.KKVFS	134
022304158.1	.....KELKKISPEKSSYSTASQF	.....YDEEIRIVLLGKTGCGKSATGNSIFG.KRRFIS	149
022304950.1	.....YEIYKR	.....KLTLRIIVLLGKTGSGKSATGNSIIG.SAQFKS	95
022299405.1	DFEKISTTQRKEACPSSHFEKTENRFSFDKYT	.....YKEEIRLVLLGKTGSGKSATGNTILG.KYNFES	175
022299409.1	DFEKISTTQRKEACPSSHFEKTENRFSFDKYT	.....YKEEIRLVLLGKTGSGKSATGNTILG.KYNFES	173
022299416.1	DFEKISTTQRKEACPSSHFEKTENRFSFDKYT	.....YKEEIRLVLLGKTGSGKSATGNTILG.KYNFES	162
022299418.1	DFEKISTTQRKEACPSSHFEKTENRFSFDKYT	.....YKEEIRLVLLGKTGSGKSATGNTILG.KYNFES	161
022299408.1	DFEKISTTQRKEACPSSHFEKTENRFSFDKYT	.....YKEEIRLVLLGKTGSGKSATGNTILG.KYNFES	173
022299407.1	DFEKISTTQRKEACPSSHFEKTENRFSFDKYT	.....YKEEIRLVLLGKTGSGKSATGNTILG.KYNFES	174
022299410.1	DFEKISTTQRKEACPSSHFEKTENRFSFDKYT	.....YKEEIRLVLLGKTGSGKSATGNTILG.KYNFES	172
022299411.1	DFEKISTTQRKEACPSSHFEKTENRFSFDKYT	.....YKEEIRLVLLGKTGSGKSATGNTILG.KYNFES	164
022299412.1	DFEKISTTQRKEACPSSHFEKTENRFSFDKYT	.....YKEEIRLVLLGKTGSGKSATGNTILG.KYNFES	164
022299413.1	DFEKISTTQRKEACPSSHFEKTENRFSFDKYT	.....YKEEIRLVLLGKTGSGKSATGNTILG.KYNFES	164
022299414.1	DFEKISTTQRKEACPSSHFEKTENRFSFDKYT	.....YKEEIRLVLLGKTGSGKSATGNTILG.KYNFES	164
022299415.1	DFEKISTTQRKEACPSSHFEKTENRFSFDKYT	.....YKEEIRLVLLGKTGSGKSATGNTILG.KYNFES	163
022291053.1	NNEIIDGRMEISSPKDVMGREKQEMWDFSEVCP	.....AEREVRLVLLGKTGSGKSA <del>SGN</del> SILG.LQAFKS	138
022297635.1	.....SSKRRPREEIQN	.....MEEIRLVLLGKTGSGKSATGNTILG.IKKFKS	47
022335699.1	.....SSKSVSLEKSK	.....KEEIRLVLLGKTGSGKSATGNTILG.FTKFSS	46
022310198.1	SSHFVPGREAKSQSMESEKTSADDSCSMPDSRS	.....IPQEVRIIVLIGKTGCGKSTTGNSILK.TINFET	144
022296314.1	MIP	.....IDREIRIVLIGKTGSGKSATGNTILG.IKRENS	35



022303233.1	KKGWSSSTKVCEYGYAKRNGCTYRVFDTPGINSFEE	MKE.IDVDAAEIRCLFCTSPGFHTIVLVVSADERVT	KDD	109
022303234.1	KKGWSSSTKVCEYGYAKRNGCTYRVFDTPGINSFEE	MKE.IDVDAAEIRCLFCTSPGFHTIVLVVSADERVT	KDD	109
022310523.1	RKGWSSSTTKTKYGCADRNRRKYRVFDTPGINSIND	MNETIDVDTEIRCLFCTSPGFHAIIVLMSADERVT	TPDD	110
022332185.1	RRCWSSVTRQCKYGSATRNKFLYRIYDTPGVNSPEE	LATSVDVETDIRRCLYCTSPGFHAIIVLVLSAAERIT	TKED	144
022332187.1	RRCWSSVTRQCKYGSATRNKFLYRIYDTPGVNSPEE	LATSVDVETDIRRCLYCTSPGFHAIIVLVLSAAERIT	TKED	131
022332188.1	RRCWSSVTRQCKYGSATRNKFLYRIYDTPGVNSPEE	LATSVDVETDIRRCLYCTSPGFHAIIVLVLSAAERIT	TKED	131
022332605.1	RRCWSSVTRQCKYGSATRNKFLYRIYDTPGINSPEE	LATIVDVETDIRRCLYCTSPGFHAIIVLVLSAAERIT	TKED	131
022332606.1	RRCWSSVTRQCKYGSATRNKFLYRIYDTPGINSPEE	LATIVDVETDIRRCLYCTSPGFHAIIVLVLSAAERIT	TKED	131
022332607.1	RRCWSSVTRQCKYGSATRNKFLYRIYDTPGINSPEE	LATIVDVETDIRRCLYCTSPGFHAIIVLVLSAAERIT	TKED	131
022332190.1	KQCWSSVTRQCEYGVSIIRNGYKYRVFDTPGVNSPKR	LEKEVDVDTEIRRCLFCTSPGFHALVLVLSAAERLSQ	ED	127
022332191.1	KQCWSSVTRQCEYGVSIIRNGYKYRVFDTPGVNSPKR	LEKEVDVDTEIRRCLFCTSPGFHALVLVLSAAERLSQ	ED	127
022332600.1	KQCWSSVTRQCEYGVSIIRNGYKYRVFDTPGVNSPKR	LEKEVDVDTEIRRCLFCTSPGFHALVLVLSAAERLSQ	ED	140
022332601.1	KQCWSSVTRQCEYGVSIIRNGYKYRVFDTPGVNSPKR	LEKEVDVDTEIRRCLFCTSPGFHALVLVLSAAERLSQ	ED	140
022332602.1	KQCWSSVTRQCEYGVSIIRNGYKYRVFDTPGVNSPKR	LEKEVDVDTEIRRCLFCTSPGFHALVLVLSAAERLSQ	ED	140
022287294.1	MLSATPVTSKTEYQMERRFGKKLVVVDTPGLCDP	SQSDTKIITEISKWYTLMSPGIHAILLVVK.AGRFT	DED	112
022287295.1	MLSATPVTSKTEYQMERRFGKKLVVVDTPGLCDP	SQSDTKIITEISKWYTLMSPGIHAILLVVK.AGRFT	DED	112
022292452.1	KT SATSVTTQTQFSETERFGRRLLVVDTPGLFDT	TKTKEELKLEISRWYALVSPGIHAILLVVQ.VGRFT	EEEE	150
022292453.1	KT SATSVTTQTQFSETERFGRRLLVVDTPGLFDT	TKTKEELKLEISRWYALVSPGIHAILLVVQ.VGRFT	EEEE	150
022291927.1	DT SATSVTTQTQYNEADRFCKRLIVVDTPGILDT	NMTKNEIEMEISRWYSLVSPGIHAILLVVR.VGRFT	EED	137
022295273.1	KVSASSVT TQTQYNETERFGKRLVVDTPGLFDT	NRTEQDILVEMSKWYSLVSPGIHAILLVVQ.VGRFT	EEEE	154
022295274.1	KVSASSVT TQTQYNETERFGKRLVVDTPGLFDT	NRTEQDILVEMSKWYSLVSPGIHAILLVVQ.VGRFT	EEEE	154
022295275.1	KVSASSVT TQTQYNETDRFGKRLVVDTPGLFDT	NRTEQEILVEMSKWYSLVSPGIHAILLVVQ.VGRFT	EEEE	154
022295276.1	KVSASSVT TQTQYNETDRFGKRLVVDTPGLFDT	NRTEQEILVEMSKWYSLVSPGIHAILLVVQ.VGRFT	EEEE	154
022295277.1	KVSASSVT TQTQYNETDRFGKRLVVDTPGLFDT	NRTEQEILVEMSKWYSLVSPGIHAILLVVQ.VGRFT	EEEE	154
022295278.1	KVSASSVT TQTQYNETDRFGKRLVVDTPGLFDT	NRTEQEILVEMSKWYSLVSPGIHAILLVVQ.VGRFT	EEEE	154
022295279.1	KVSASSVT TQTQYNETDRFGKRLVVDTPGLFDT	NRTEQEILVEMSKWYSLVSPGIHAILLVVQ.VGRFT	EEEE	154
022295280.1	KVSASSVT TQTQYNETDRFGKRLVVDTPGLFDT	NRTEQEILVEMSKWYSLVSPGIHAILLVVQ.VGRFT	EEEE	154
022295286.1	KVSASSVT TKTQYNETERFGKRLVVDTPGLFDT	NRTEQEILVEISKWYSLVSPGVHAILLVVQ.VGRFT	EEEE	147
022295287.1	KVSASSVT TKTQYNETERFGKRLVVDTPGLFDT	NRTEQEILVEISKWYSLVSPGVHAILLVVQ.VGRFT	EEEE	147
022295281.1	KVSASSVT TKTQCNETERFGKRLVVDTPGLFDT	IRTEQETLVEMSKWYSLVSPGIHAILLVVQ.VGRFT	EEEE	144
022295282.1	KVSASSVT AQTQYNETDRFGKRLVVDTPGLFDT	IRTEQETLVEISKWYSLVSPGIHAILLVVQ.VGRFT	EEEE	144
022294703.1	DL SAQSVTKFSQISKTERFGKKLVVVDTPGYS DG	NMTDTEILEEISRWHLFA SPGVHAIIFMVE.IGRFT	TKED	134
022294704.1	DL SAQSVTKFSQISKTERFGKKLVVVDTPGYS DG	NMTDTEILEEISRWHLFA SPGVHAIIFMVE.IGRFT	TKED	134
022294705.1	DL SAQSVTKFSQISKTERFGKKLVVVDTPGYS DG	NMTDTEILEEISRWHLFA SPGVHAIIFMVE.IGRFT	TKED	134
022294708.1	DL SAQSVTKFSQISKTERFGKKLVVVDTPGYS DG	NMTDTEILEEISRWHLFA SPGVHAIIFMVE.IGRFT	TKED	134
022295072.1	LOW QUALITY PROTEIN:GISAKSVTERTQFNEAKRFCKKLVVVDTPGXG YLDT	NRSEKEILTEIFRWYSLVSPGIHAILLVVE.IGRFT	EDD	108
022287296.1	KL SAASVT SKTECKENDRFCKQLVVDTPGFFHT	ELTEEELRNEYCKWSEHISPGIQAIVLVIQ.AERFT	EED	112
022301435.1	DVSNSSITKHCKMGTASRFQDQLLVVDTPGLFDT	VILSPLGMSNDEITTEILKCVGISAPGPHAILLIIG.IGRFT	KEE	178
022301436.1	DVSNSSITKHCKMGTASRFQDQLLVVDTPGLFDT	GMSNDEITTEILKCVGISAPGPHAILLIIG.IGRFT	KEE	174
022302475.1	EVSNCSITKHCKRG TASRFCHDLLVVDTPGLFDT	GMSNDDITTEILKCVGISAPGPHAILLVIG.IGRFT	KEE	178
022302477.1	EVSNCSITKHCKRG TASRFCHDLLVVDTPGLFDT	GMSNDDITTEILKCVGISAPGPHAILLVIG.IGRFT	KEE	129
022299725.1	EVSNSSITKNCKRGSSDRFGHRVLVVDTPGLFDT	GMTNDAITTEILKCVGLSAPGPHAILLVIG.IGRFT	QEE	206
022304158.1	HSSASSVT RTCCFKTEFRFNKKIIVDTPGFFDTK	QSNKIIQDEISKCITLSPGPFAFILVLSISNRFTEEE		222
022304950.1	SASGHPLTSTCSFQSADRFCKEIVVVDTPGLFDTK	KTTKKVLNEISKCIGLSPGPFAFILVLSVGSDFTEEE		168
022299405.1	TFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFD TT	QSNEDIQEEIKKCVLLTSPGPFAFILILRLDARFTDEE		248
022299409.1	TFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFD TT	QSNEDIQEEIKKCVLLTSPGPFAFILILRLDARFTDEE		246
022299416.1	TFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFD TT	QSNEDIQEEIKKCVLLTSPGPFAFILILRLDARFTDEE		235
022299418.1	TFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFD TT	QSNEDIQEEIKKCVLLTSPGPFAFILILRLDARFTDEE		234
022299408.1	TFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFD TT	QSNEDIQEEIKKCVLLTSPGPFAFILILRLDARFTDEE		246
022299407.1	TFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFD TT	QSNEDIQEEIKKCVLLTSPGPFAFILILRLDARFTDEE		247
022299410.1	TFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFD TT	QSNEDIQEEIKKCVLLTSPGPFAFILILRLDARFTDEE		245
022299411.1	TFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFD TT	QSNEDIQEEIKKCVLLTSPGPFAFILILRLDARFTDEE		237
022299412.1	TFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFD TT	QSNEDIQEEIKKCVLLTSPGPFAFILILRLDARFTDEE		237
022299413.1	TFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFD TT	QSNEDIQEEIKKCVLLTSPGPFAFILILRLDARFTDEE		237
022299414.1	TFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFD TT	QSNEDIQEEIKKCVLLTSPGPFAFILILRLDARFTDEE		237
022299415.1	TFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFD TT	QSNEDIQEEIKKCVLLTSPGPFAFILILRLDARFTDEE		236
022291053.1	NLSGISTTRTCSQKFANRFNRKIIVVDTPGIFD TE	ETNEKIQQEIHKCIGITSPGPFAFILMVISIANRFTEEE		211
022297635.1	ELSGKSETKMC SQWSAIRFNKKVLVIDTPGVFD TD	QTNEFTQEEISKCIGIS SPGPFAFILVINIANRFTEED		120
022335699.1	KL SAISSETSVCSLSIVCRFNKKIIIVDTPGICD TK	KKTNDDVIQLEISKICMTSPGPFAFILVISITSRFTDED		121
022310198.1	SVLAGSCTQIC TLREGVIFDKKVVLI DTPGIFD TK	ESNDEIQQEILRCIQLS SPGPFAFILVLSNIATRFTEEE		217
022296314.1	RLSGSSITRICSONSAVBEKRKIVIVDTPGIED TK	QTNEEFQNEIKCIGITSPGPFAFILVLSAARETDEE		108



022303233.1	VKMVEKLDDFLG.HKGFGYMLAVT...KMEDDGYEMLDDMIK.....KNKAINDLDTKCQSRRVILGNKADGTPEKCIQRFD	183
022303234.1	VKMVEKLDDFLG.HKGFGYMLAVT...KMEDDGYEMLDDMIK.....KNKAINDLDTKCQSRRVILGNKADGTPEKCIQRFD	183
022310523.1	VKMVEITLDYVLG.KKGFGYMLAVT...KLDDDGYKLLDKMIK.....DAEAIKKLDIKCQSRRVILGDNKREIPEICIKRFD	184
022332185.1	MAMLKKLDGLLG.ESAYKYMLMIT...KLEDD.ETVLHEMMT.....EAPQIVELNVKCRSRRVIFGNATKIPDACVQKFD	217
022332187.1	MAMLKKLDGLLG.ESAYKYMLMIT...KLEDD.ETVLHEMMT.....EAPQIVELNVKCRSRRVIFGNATKIPDACVQKFD	204
022332188.1	MAMLKKLDGLLG.ESAYKYMLMIT...KLEDD.ETVLHEMMT.....EAPQIVELNVKCRSRRVIFGNATKIPDACVQKFD	204
022332605.1	MAMLKKLDGLLG.ESAYKYMLMIT...KLEDD.ETVLHEMMT.....EAPQIVELNVKCRSRRVIFGNATKIPDACVQKFD	204
022332606.1	MAMLKKLDGLLG.ESAYKYMLMIT...KLEDD.ETVLHEMMT.....EAPQIVELNVKCRSRRVIFGNATKIPDACVQKFD	204
022332607.1	MAMLKKLDGLLG.ESAYKYMLMIT...KLEDD.ETVLHEMMT.....EAPQIVELNVKCRSRRVIFGNATKIPDACVQKFD	204
022332190.1	IDMLDKLNKLLG.EKAYKYMLVVT...KLEND.ERILTDMIA.....SAPEVSALNVKCEERRVIFGDDKKNIPNECLEKFD	200
022332191.1	IDMLDKLNKLLG.EKAYKYMLVVT...KLEND.ERILTDMIA.....SAPEVSALNVKCEERRVIFGDDKKNIPNECLEKFD	200
022332600.1	IEMLDKLDKLLG.EKAYKYMLVVT...KLEND.ESILTDMIA.....SSPEVSALNVKCEERRVIFGDDKKNIPNECLEKFD	213
022332601.1	IEMLDKLDKLLG.EKAYKYMLVVT...KLEND.ESILTDMIA.....SSPEVSALNVKCEERRVIFGDDKKNIPNECLEKFD	213
022332602.1	IEMLDKLDKLLG.EKAYKYMLVVT...KLEND.ESILTDMIA.....SSPEVSALNVKCEERRVIFGDDKKNIPNECLEKFD	213
022287294.1	QHTVDLFMKVFG.DDLKKYLVVVFADKEQLECNMTVTSYIRTMN.....KSSNLYKLIEEINRRYVAVGVR....DENEKEIL	186
022287295.1	QHTVDLFMKVFG.DDLKKYLVVVFADKEQLECNMTVTSYIRTMN.....KSSNLYKLIEEINRRYVAVGVR....DENEKEIL	186
022292452.1	QKTVDFFMAVFG.EELQKYLVVFTDKDKLEKSNSVEQYVQYTP.....KSTKFRKLDITNN.RYIAMGYQG..NVQDRDDEVK	226
022292453.1	QKTVEFFMAVFG.EELKKYLVVFTGDKLEKNLTVQYVQYTP.....KSTIFRKLVDITNN.GYIAMGYQG..NFKDRDDEVK	226
022291927.1	QKTVDYFMVTFGE.EEVKNYLVVFTDKLEKLVKK..TVEEYVQYTP.....KSSNLRKLVDANN.RYAMGYTG..NVKDRDDEVK	211
022295273.1	QKTVDFFMKVFG.EDLKDYLIVVFTHKDRLEDENITVDEFVQTMND.....KSSNLRRLIDASKGRYTAIGYKG..KMEERTMEVK	231
022295274.1	QKTVDFFMKVFG.EDLKDYLIVVFTHKDRLEDENITVDEFVQTMND.....KSSNLRRLIDASKGRYTAIGYKG..KMEERTMEVK	231
022295275.1	QKTVDFLMKVFG.EDLKDYLIVVFTNKDRLEDENITVDDFVQTMN.....KSSNLRRLIDASKGRYTAIGYKG..KIEERTMEVK	231
022295276.1	QKTVDFLMKVFG.EDLKDYLIVVFTNKDRLEDENITVDDFVQTMN.....KSSNLRRLIDASKGRYTAIGYKG..KIEERTMEVK	231
022295277.1	QKTVDFLMKVFG.EDLKDYLIVVFTNKDRLEDENITVDDFVQTMN.....KSSNLRRLIDASKGRYTAIGYKG..KIEERTMEVK	231
022295278.1	QKTVDFLMKVFG.EDLKDYLIVVFTNKDRLEDENITVDDFVQTMN.....KSSNLRRLIDASKGRYTAIGYKG..KIEERTMEVK	231
022295279.1	QKTVDFLMKVFG.EDLKDYLIVVFTNKDRLEDENITVDDFVQTMN.....KSSNLRRLIDASKGRYTAIGYKG..KIEERTMEVK	231
022295280.1	QKTVDFLMKVFG.EDLKDYLIVVFTNKDRLEDENITVDDFVQTMN.....KSSNLRRLIDASKGRYTAIGYKG..KIEERTMEVK	231
022295286.1	QKTVDFFMNVFG.EDLKDYLIVVFTHKDRSEDENKTVDEFVQTMND.....KSSNLRRLIDASKGRYTAIGYKG..KMEERTMEVK	224
022295287.1	QKTVDFFMNVFG.EDLKDYLIVVFTHKDRSEDENKTVDEFVQTMND.....KSSNLRRLIDASKGRYTAIGYKG..KMEERTMEVK	224
022295281.1	QKTVDFFMKVFG.EDLKDYLIVVFTHKDRLEDENITVDDFVQTMND.....KSSNLRRLIDASKGRYTAIGYKG..SMEKRTWEVK	221
022295282.1	QKTVDFFMKVFG.EDLKDYLIVVFTHKDRLEDENITVDDFVQTMND.....ESSNLRRLIDASKGRYTAIGYKG..KIEERTMEVK	221
022294703.1	EKNMDFMKVFG.EQLKNHLIVVFSHKNKLETKNKTVDYVKTLD.....ASTNLRNLIDLCKNRYTAIGDGW..EGEDRTLEVN	211
022294704.1	EKNMDFMKVFG.EQLKNHLIVVFSHKNKLETKNKTVDYVKTLD.....ASTNLRNLIDLCKNRYTAIGDGW..EGEDRTLEVN	211
022294705.1	EKNMDFMKVFG.EQLKNHLIVVFSHKNKLETKNKTVDYVKTLD.....ASTNLRNLIDLCKNRYTAIGDGW..EGEDRTLEVN	211
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 non conserved  
  $\geq 50\%$  conserved