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log _o			MSIKLLDEFLKKHKTTRYQLSKLTGISQNTLNDYNKKELNKYSVSFRLALSMCAGISTFDVFTLAELEKSYDDLAGE																				
Acr00150	type	II-A	.....	MSIKLLDEFLKKHKTTRYQLSKLTGISQNTLNDYNKKELNKYSVSFRLALSMCAGISTFDVFTLAELEKSYDDLAGE	78																	
Acr00151	type	II-A	.....	MSIKLLDEFLKKHKTTRYQLSKLTGISQNTLNDYNKKELNKYSVSFMRALSMCAGISTFDVFTLAELEKSYDDLAGE	78																	
Acr00134	type	II-A	.....	MSIKLLDEFLKKHKTTRYQLSKLTGISQNTLNDYNKKELNKYSVSFRLALSMCAGISTFDVFTLAELEKSYDDLAGE	78																	
Acr00143	type	II-A	.....	MSIKLLDEFLKKHKTTRYQLSKLTGISQNTLNDYNKKELNKYSVSFRLALSMCAGISTFDVFTLAELEKSYDDLAGE	78																	
Acr00135	type	II-A	.....	MSIKLLDEFLKKHKTTRYQLSKLTGISQNTLNDYNKKELNKYSVSFRLALSMCAGISTFDVFTLAELEKSYDDLAGE	78																	
Acr00155	type	II-A	.....	MSIKLLDEFLKKHKTTRYQLSKLTGISQNTLNDYNKKELNKYSVSFRLALSMCAGISTFDVFTLAELEKSYDDLAGE	78																	
Acr00145	type	II-A	.....	MSIKLLDEFLKKHKTTRYQLSKLTGISQNTLNDYNKKELNKYSVSFRLALSMCAGISTFDVFTLAELEKSYDDLAGE	78																	
Acr00133	type	II-A	.....	MSIKLLDEFLKKHKTTRYQLSKLTGISQNTLNDYNKKELNKYSVSFRLALSMCAGISTFDVFTLAELEKSYDDLAGE	78																	
Acr00129	type	II-A	.....	MSIKLLDEFLKKHKTTRYQLSKLTGISQNTLNDYNKKELNKYSVSFRLALSMCTGISTFDVFTLAELEKSYDDLAGE	78																	
Acr00156	type	II-A	.....	MSIKLLDEFLKKHKTTRYQLSKLTGISQNTLNDYNKKELNKYSVSFRLALSMCAGISTFDVFTLAELEKSYDDLAGE	78																	
Acr00138	type	II-A	.....	MSIKLLDEFLKKHKTTRYQLSKLTGISQNTLNDYNKKELNKYSVSFRLALSMCTGISTFDVFTLAELEKSHDDLAGE	78																	
Acr00149	type	II-A	.....	MSIKLLDEFLKKHKTTRYQLSKLTGISQNTLNDYNKKELNKYSVSFRLALSMCAGISTFDVFTLAELEKSYDDLAGE	78																	
Acr00144	type	II-A	.....	.....TRYQLSKLTGISQNTLNDYNKKELNKYSVSFRLALSMCAGISTFDVFTLAELEKSYDDLAGE	63																
Acr00148	type	II-A	.....	MSIKLLDEFLKKHKTTRYQLSKLTGISQNTLNDYNKKELNKYSVSFRLALSMCTGISTFDVFTLAELEKSYDDLAGE	78																	
Acr00136	type	II-A	.....	MSIKLLDEFLKKHKTTRYQLSKLTGISQNTLNDYNKKELNKYSVSFRLALSMCAGISTFDVFTLAELEKSYDDLAGE	78																	
Acr00154	type	II-A	.....	.....LNDYNKKELNKYSVSFRLALSMCAGISTFDVFTLAELEKSYDDLAGE	48																
Acr00220	type	II-C	.....	.....MNVYPVPDSFAGNY..GVGYALAAIAGGQVLSKYIAEHVDEK.TQ	43																
Acr00222	type	II-C	.....	.....MNVFPIPDSLAEAYH.GAGWALGAVLGGQLVALRYVAD.....L	38																
Acr00224	type	II-C	MTDSQGREALSVIHIN.....	VPRAMKARWVKASQSQREQKLTDWIIEKLESRTMNVYPIPETLAAKYH.GAGHALAAVTGGQIVDLVYIED.....	85																		
Acr00223	type	II-C	.....	.....MTLTDWIIVDRVRHNTMNVFKVPQSLADKYH.GAGYALAAATVAGQLVDIVYLAD.....ML	54																
Acr00225	type	II-C	MIERSAKRARPIRRIPRQGRRLHPPACARCAQGMVGARWPQPGVTLTDWIVDRVRHNTMNVFKVPQSLADKYH.GAGYALAAATVAGQLVDIVYLAD.....	ML	98																		
Acr00227	type	II-C	.....	.....MNVYPVPDALQHYYK.CRGIALCATRNGELVALVYVRD.....	37																
Acr00230	type	II-C	.....	.....MANKTYKIGKN..AGYD.CCGLCLAAISENEAIKVYLRD.....	37																
Acr00221	type	II-C	.....	.....MNKTYKIGKN..AGYD.CCGLCLAAISENEAIKVYLRD.....	36																
Acr00271	type	II-C	.....	.....MDEIEDLSLTPMPRFIWGFAVIAGKGGEVMHDEFE.YLTHTRSPRFTCRVVELEDMPAESFEEDAID	65																
Acr00263	type	II-C	.....	.....MDEIEDLSLTPMPRFIWGFAVVAGKGGEVMHDEFE.YLTHTRSPRFTCRVVELEDVVPADNGEDDID	65																
Acr00284	type	II-C	.....	.....MDEIEDLSLTPMPRFIWGFAVAAGRSGEVLHDEFE.YLTHTRSPRFTCRVVELEDVPTDNDEGGID	65																
Acr00261	type	II-C	.....	.....MDEIDDLSLTPMPRFIWGFAIFTPKGGEVMHDEFE.YLTHTRAPRFTCRVVELEDMPVDSEETGID	65																
Acr00260	type	II-C	.....	.....MDEIDDLSLTPMPRFIWGFAIFTPKGGEVMHDEFE.YLTHTRAPRFTCRVVELEDMPVDSEESGID	65																
Acr00259	type	II-C	.....	.....MDEIDDLSLTPMPRFIWGFAIFTPKGGEVMHDEFE.YLTHTRAPRFTCRVVELEDMPVDSEESGID	65																
Acr00277	type	II-C	.....	.....MDEIDDLSLTPMPRFIWGFAIATGKGGEVMHDEFE.YLTHTRSPRFTCRVVELEDMPPTESDDSDID	65																
Acr00273	type	II-C	.....	.....MDEIDDLSLTPMPRFIWGFAIATGKGGEVMHDEFE.YLTHTRSPRFTCRVVELEDMPPTESDESGID	65																
Acr00264	type	II-C	.....	.....MDDMDEIDDLSLTPMPRFIWGFAITASKGGEVSHDEFE.YLTHTNPRFSCRVVELEDVVPADSEESGID	68																
Acr00268	type	II-C	.....	.....MDEIDDLSLTPMPRFIWGFAVVANKGGEIMHDEFE.YLTHTRSPRFTCRVVELEDMPADSEESGID	65																
Acr00229	type	II-C	.....	.....MASVTTFPPDNLARERI.ETGWALAAISGNQIAAVREFRRLSP...QV	45																
Acr00226	type	II-C	.....	.....MNFLVCPKLGINYFKLQNTPAAEYYRGCCKAWIAIANGIPQAQKYMDDFAYDPDLE	56																
Acr00219	type	II-CMKEVFKLKPTEL.VTYK.CCGWALACIKDGEIIDLTYVRDLG....I	40																		
consensus				*** ** *		*		*** *		*** ** *		*** ** *		*** ** *		*** ** *							

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			KHLDDKYKLSFPAQ . EFELYCLIKEFESANIEVLPFTFNR FENETHVDIEKDVRKALENAITVLKEKKNELI																		149
Acr00150	type	II-A	KHLDDKYKLSFPAQ . EFELYCLIKEFESANIEVLPFTFNR FENETHVDIEKDVRKALENAITVLKEKKNELI																		149
Acr00151	type	II-A	KHLDDKYKLSFPAQ . EFELYCLIKEFESANIEVLPFTFNR FENETHVDIEKDVRKALENAITVLKEKKNELI																		149
Acr00134	type	II-A	KHLDDKYKLSFPAQ . EFELYCLIKEFESASIEVLPFTFNR FENETHVDIEKDVRKALENAITVLKEKKNELI																		149
Acr00143	type	II-A	KHLDDKYKLSFPAQ . EFELYCLIKEFECANIEVLPFTFNR FENETHVDIEKDIRKALENAITVLKEKKNELI																		149
Acr00135	type	II-A	KHLDDKYKLSFPAQ . EFELYCLIKEFECANIEVLPFTFNR FENETHVDIEKDVRKALENAITVLKEKKNELI																		149
Acr00155	type	II-A	KHLDDKYKLSFPAQ . EFELYCLIKEFECANIEVLPFTFNR FENETHVDIEKDVRKALENAITVLKEKKNELI																		149
Acr00145	type	II-A	KHLDDKYKLSFPAQ . EFELYCLIKEFESANIEVLPFTFNR FENEHVN																		125
Acr00133	type	II-A	KHLDDKYKLSFPAQ . EFELYCLIKEFESANIEVLPFTFNR FENETHVDIEKDVRKALENAITVLKEKKNELI																		149
Acr00129	type	II-A	KHLDDKYKLSFPAQ . EFELYCLIKEFECANIEVLPFTFNR FENETHVDIEKDVRKALENAITVLKEKKNELI																		149
Acr00156	type	II-A	KYLLDKHKLSFPAQ . EFELYCLIKEFESANIEVLPFTFNR FENETHVDIEKDVRKALENAITVLKEKKNELI																		149
Acr00138	type	II-A	KHLDDKHKLSFPAQ . EFELYCLIKEFESANIEVLPFTFNR FENETHVDIEKDVRKALENAITVLKEKKNELI																		149
Acr00149	type	II-A	KHLDDKYKLSFPAQ . EFELYCLIKEFESANIEVLPFTFNR FENEHVNKKDVKCALENAITVLKEKKNELI																		149
Acr00144	type	II-A	KHLDDKYKLSFPAQ . EFELYCLIKEFESANIEVLPFTFNR FENEHVNKKDVKCALENAITVLKEKKNELI																		134
Acr00148	type	II-A	KHLNKKYKLSFPAQ . EFELYCLIKEFESANIEVLPFTFNR FENEHVNIEKDVKCALENAITVLKEKKNELI																		149
Acr00136	type	II-A	KYLLDKHKLSFPTQ . EFELYCLIKEFESANIEVLPFTFNR FENETHADIEKDVKKALNNAIAVLEEKKKEELL																		149
Acr00154	type	II-A	KHLDDKYKLSFPAQ . EFELYCLIKEFESANIEVLPFTFNR FENETHVDIEKDVRKALNNAIAVLKEKKKEELL																		119
Acr00220	type	II-C	DELAEGGAP ARNAAFKWIGSQSAGPVVRELQ . ALGRVCAGMCSGWEFVEL																		92
Acr00222	type	II-C	GVSVPEPGAA GVQAVRAWIESPGAAPVVRELQ . ALGRVTIGMCSGWQFVEQ																		87
Acr00224	type	II-C	.ALLDYDAD APGALAAAIIDQRLAPTVRRLQ . ALGVSAGMCGAWEFVEL																		133
Acr00223	type	II-C	PDFGGQDGP TRADAQTAIDEPVLAPTVRHLQ . ALGSVHMGMLSGWAFVEL																		103
Acr00225	type	II-C	PDFGGQDGP TRADAQTAIDEPVLAPTVRHLQ . ALGSVHMGMLSGWAFVEL																		147
Acr00227	type	II-C	.LIPDFAD TVEAAPSIGDNARVAQVARALEKDFGFVRVGI VSSWEFCEL																		85
Acr00230	type	II-C	.ICPDYDGGD KAEDWLRWGTDSRVKAAALEME . QYAYTSVGMASCWEFVEL																		86
Acr00221	type	II-C	.ICPDYDGGD KAEDWLRWGTDSRVKAAALEME . QYAYTSVGMASCWEFVEL																		85
Acr00271	type	II-C	GRIVHDDPSRMFY . . ITDAGMALVNFQLFDKMPDKQKLKICDEAIANWMLRREFLDE . . . EEDD																		126
Acr00263	type	II-C	GRIVHHDEPRRLFY . . ITDAGMALVNFFFDKLPEKAKLKVCDIAIANWMLRREFLDE . . . EED																		126
Acr00284	type	II-C	GRIVHPDDPRRMFY . . ITDAGMALVNFAMFDKMPERQKLKQICDAIANWMLRREFLEEGEDDEE																		130
Acr00261	type	II-C	GRIVHYDEPGRLFY . . ISDAGIALVNFELFDKVPEKQKLKICDEAIENWMLRRDFLDS . . . EEGEED																		128
Acr00260	type	II-C	GRIVHYDEPGRLFY . . ISDAGIALVNFELFDKVPEKQKLKICDEAIENWMLRRDFLDS . . . EEGEED																		128
Acr00259	type	II-C	GRIVHYDEPGRLFY . . ISDAGIALVNFELFDKVPEKQKLKICDEAIENWMLRRDFLDS . . . EEGEEG																		128
Acr00277	type	II-C	GRIVHYDDPARLFY . . ITDAGMALVNFELFDKLPDRQKLKVCDIAIRNWMIRRDFLDS . . . EDD																		127
Acr00273	type	II-C	GRIVHYDDPARLFY . . ITDAGMALVNFELFDKLPDRQKLKVCDIAIRNWMIRRDFLDS . . . EDD																		127
Acr00264	type	II-C	GRIVHYDEPDRLFY . . ITDAGMALVNFQMFDKLPEKSRLKVCDIAIKNWMLRREFLDD . . . EEDEG																		130
Acr00268	type	II-C	GRVVHYDEPDRLFY . . ITDAGMALVNFQLFDKLPDKAKLKVCDIAIANWMLRREFLDD . . . EEDEG																		127
Acr00229	type	II-C	AQHPIGAEQ AAQVIRRWLTLPASSVVDDELQ . QLGRITVGMCHEGQFLEC																		95
Acr00226	type	II-C	ASQREQFGVYRQKCRDYLSSKGR . . ESGHCSCWEFTTNAYYCEAESLLAAIESEREYMEELNT																		117
Acr00219	type	II-C	EEYDENFDG LEPEIIYYDVVASQACKEVAYRYE . EMGEFTFG																		91
consensus			** * * * * *																		

- ☐ non conserved
- ☒ similar
- ☒ ≥ 50% conserved