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NTDB id 1323	RA0C	RS07335	WP 004916218.1	.MLVKKYVGSATIHGVSAQTITIEVNVDDGV.GYHLVGLPDNAIKESSHRTSAAIKNVGYKLPGKKITINMAPADLR	73
NTDB id 1271	LPP	RS03220	WP 011213198.1	MSLAFTKTRSTIGTVAQPVSVVEVHISNGIPSFMTVGLAETAIVKESKDRVRSAINSQFEFFPCRKITVNLGPANLP	75
NTDB id 1248	GC085	RS03150	WP 011213198.1	MSLAFTKTRSTIGTVAQPVSVVEVHISNGIPSFMTVGLAETAIVKESKDRVRSAINSQFEFFPCRKITVNLGPANLP	75
NTDB id 227666	XcfCFBP6992P	RS19735	WP 089111487.1	MSLALVHSRARVGVHAPEVRVEVHISGCLPSTQIVGLPEAAVRESREVRRAALICAQFEFPARRITINLAPADLP	75
NTDB id 1153	A1552VC	RS00115	WP 000521788.1	MGLATIHHSRASIGVQAPPVITVEVHISNCGMPGFTLVGLPETTVKESKDRVRSAINSRFEFFPAKRITVNLAPADLP	75
NTDB id 1397	DSB67	RS15690	WP 005535577.1	MGLATIHHSRASVGVQAPSVSVVEVHISNCGMPGFTLVGLPETTVKESKDRVRSAINSRFEFFPAKRITVNLAPADLP	75
NTDB id 1349	HI 1117	AAC22771.1		MSLATIVYSRASMGVQAPLVITIEVHISNCKPGFTLVGLPEKTVKEAQDRVRSALMNAQFKVPKRITVNLAPADLP	75
NTDB id 1387	A4U84	RS06900	WP 020457569.1	MSLATIVYSRASIGVEAPLVITIEVHISGCGSPGLTLVGLPEKSVKEAQDRVRSALMNAQFDYPARRITINLAPADLP	75
consensus				**!**** *****!* *!* ****!!**!!*!*****!!** *!*!****!***!* *!* *****!***!!*!*!!*!*!	

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NTDB id 1323	RA0C	RS07335	WP 004916218.1	KEGGRFDLPIALGILAASGQIIAPEIRYRLINGELSLDGGIQLPIKGVPIAIRAREEGFGITIPKQNTREAAITV	148
NTDB id 1271	LPP	RS03220	WP 011213198.1	KTGSGFDLPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKD.NQHLLIIANANAAEASLT	149
NTDB id 1248	GC085	RS03150	WP 011213198.1	KTGSGFDLPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKD.NQHLLIIANANAAEASLT	149
NTDB id 227666	XcfCFBP6992P	RS19735	WP 089111487.1	KEGGRFDLPIALGILAASGQIDRQALADYEFELGELALTGELRGVDGVLPAAALAAQA.GERLIVPLANGAEAAIA	149
NTDB id 1153	A1552VC	RS00115	WP 000521788.1	KEGGRFDLPIALGILAASDQIARNKLESYEFIGELALSGEIRGVKGVLIPAAALAAQV.ERCLVVPHSNGDQAALV	149
NTDB id 1397	DSB67	RS15690	WP 005535577.1	KEGGRFDLPIALGILAASEQIATDKLKNYEFVIGELALSGGLRTVKGVLPAAALAAQV.ERCLVVPHSNGDQAALV	149
NTDB id 1349	HI 1117	AAC22771.1		KEGGRFDLPIALGILAASDQIDASHLKQFEFVAELALTGQLRGVHGVIPAILAAQKS.KRELIIAKQNAEASLV	149
NTDB id 1387	A4U84	RS06900	WP 020457569.1	KEGGRFDLPIALGILAASGQIDSDKIKRIEELGELSLCHLRGVHGAIPAVLAAASKA.KRETIIVPQQNAEVS LV	149
consensus				!*!***!!*!!*!!!!!!*!* * *****!!*!*! ***** ***!* **!* * *****! * ** ** *	

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NTDB id 1323	RA0C	RS07335	WP 004916218.1	NDLEVYGVENIKVIDEFNENCPIEPTKVNTRREEFHKRVNLPFPDFSEVKGQETAKRAMEVAAAGCHNITILIGPP	223
NTDB id 1271	LPP	RS03220	WP 011213198.1	GHQKVFTANNLREVC DYLCQGTS LQSLPPKPDLL...LNNYELDWS DIKGQQHAKNAMVIAACGGHSILLSGAP	220
NTDB id 1248	GC085	RS03150	WP 011213198.1	GHQKVFTANNLREVC DYLCQGTS LQSLPPKPDLL...LNNYELDWS DIKGQQHAKNAMVIAACGGHSILLSGAP	220
NTDB id 227666	XcfCFBP6992P	RS19735	WP 089111487.1	CHVEAFTARTLLDVCATLNGSQKAPAAELAVQAL...GARALPDMADVRGQPHARRALEIAAAGGHILLV GSP	220
NTDB id 1153	A1552VC	RS00115	WP 000521788.1	GVERHKS AQSLLEVCA D LCGQQTSLSFQSSPSV...QQVSQTRD LQDIIGQQQCKRALEIAAAGNHNLLFLGPP	220
NTDB id 1397	DSB67	RS15690	WP 005535577.1	GKEQHKS AQSLLEVCAELCGQHQLNLYQTPKKK...ELKAHGRD LQDIIGQQQCKRALEIAAAGNHNLLFLGPP	220
NTDB id 1349	HI 1117	AAC22771.1		SDQNTYFAQTL LDV VQELNGQEK LPLATEIVKESA VNFSGKNTLD LDIIGQQHAKRAL TIAAAGQHNL FLGPP	224
NTDB id 1387	A4U84	RS06900	WP 020457569.1	SNTQTYCASTLLQVVN F LNNRDQLPIAQQLSQNIAEN.RPLVSRD LDIIGQQHAKRAL TIAASGQHNL FLGPP	223
consensus				* ***** **!* * *	!!*** *!* **!!*!*! **!!*!*! **!!*!*! **!!*!*! **!!*!*! **!!*!*! **!!*!*!

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NTDB id 1323	RA0C	RS07335	WP 004916218.1	CSGKTM LAKRIPSLPPLTLKEAETTKIHSVAGKMGAETSLMTIRPFRSPHHTISDVALVGGGSYPQPGEISLA	298
NTDB id 1271	LPP	RS03220	WP 011213198.1	CSGKTMMAKRFSTLLPELSETQALECAAINSIRGKLP.DFREWLPPFRAPHHTASPVALVGGGNPPKPGEISLA	294
NTDB id 1248	GC085	RS03150	WP 011213198.1	CSGKTMMAKRFSTLLPELSETQALECAAINSIRGKLP.DFREWLPPFRAPHHTASPVALVGGGNPPKPGEISLA	294
NTDB id 227666	XcfCFBP6992P	RS19735	WP 089111487.1	CGGKTLASRLPGLLPEASEAEAEETAATSSISGRGL.DLARWRQRPYRAPHHTASAVALVGGGTHPRPGEISLS	294
NTDB id 1153	A1552VC	RS00115	WP 000521788.1	CTGKTM LASRLCDLLPEMSDEEAMETASIASITQQEI.NQHNWKL RPFRAPHHSSSMAALVGGGTIPRPGEISLA	294
NTDB id 1397	DSB67	RS15690	WP 005535577.1	CTGKTM LASRLCDLLPEMSDEEAMETASVASITQSEI.NEHNWKRTPFRAPHHSSSMAALVGGGSVPRPGEISLA	294
NTDB id 1349	HI 1117	AAC22771.1		CTGKTM LASRLTGLLPEMTDLEAETASVTSLVQNEL.NFHNWKRTPFRAPHHSASMPALVGGGTIPRPGEISLA	298
NTDB id 1387	A4U84	RS06900	WP 020457569.1	CTGKTM LASRLADLLPEMTDEAETASVTSLVQNEL.NFQNWKRTPFRPHSSASMPALVGGGSIPKPGEISLA	297
consensus				!*!!!!**!*!* *!!** **!*!* *!* * * *!!** *!* **!!*!*! **!!*!*! **!!*!*! **!!*!*!	

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NTDB id 1349 HI 1117 AAC22771.1
NTDB id 1387 A4U84 RS06900 WP 020457569.1
consensus



 non conserved
 similar
 ≥ 50% conserved