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NTDB id 1323 RAOC RS07335 WP 004916218.1	MSLAIVYSRASIGVAPVTVVHLSNGPGETLVGLPETAVKESQDRVRSALNSQFEFPARRITYNLAPADLPKEGGR	78
NTDB id 1271 LPP RS03220 WP 011213198.1	.MLVKKVYGSAIHGVSAQTTITIEVNVDDGV.GYHLVGLPDNAIKESSHRTISAALKNVGYKLPKGGKITINMAPADLRKEGSA	80
NTDB id 1248 GC085 RS03150 WP 011213198.1	MSLAFTTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETA VKESKDRVRSALINSQFEFPCKRITVNLGPANLPKTTGSG	80
NTDB id 1003177 ABHI22 RS19890 WP 033482589.1	MSLAFTTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETA VKESKDRVRSALINSQFEFPCKRITVNLGPANLPKTTGSG	80
NTDB id 1153 A1552VC RS00115 WP 000521788.1	MSLAIVHSRARVGVHAPVVRVEVHLSGGLPSTQIVGLPEAAVRESRERVRAALLCAQFEFPARRITINLAPADLPKEGGR	80
NTDB id 1397 DSB67 RS15690 WP 005535577.1	MGLAIIHSRASIGVQAPPVTIVEVHISNGMPGFTLVGLPETTVKESRDRVRSALINSRFEFPKAKRITVNLAPADLPKEGGR	80
NTDB id 1349 HI 1117 AAC22771.1	MGLAIIHSRASVGVQAPSVSVEVHISNGMPGFTLVGLPETTVKESKDRVRSALIVNSNFQFPKAKRITVNLAPADLPKEGGR	80
NTDB id 1387 A4U84 RS06900 WP 020457569.1	MSLAIVYSRASMGVQAPLVTTIEVHLSNGKPGFTLVGLPEKTVKEAQDRVRSALMNAQFKYPAKRITVNLAPADLPKEGGR	80
consensus	MSLAIIYSRASIGVEAPLVTTIEVHISGGSPGLTLVGLPEKSVKEAQDRVRSALMNANFDYPARRITINLAPADLPKEGGR	80



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NTDB id 1323 RAOC RS07335 WP 004916218.1	FDLPIALGILAASGQIIAPETIERYLIMGELSLDGGQLPIKGVLPPIAIRAREEGFGKTIILPKQNTREAAIVNDLEVYGVEN	158
NTDB id 1271 LPP RS03220 WP 011213198.1	FDLPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKD.NQHLLIIANANAAEASLTGHQKVFTANN	159
NTDB id 1248 GC085 RS03150 WP 011213198.1	FDLPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKD.NQHLLIIANANAAEASLTGHQKVFTANN	159
NTDB id 1003177 ABHI22 RS19890 WP 033482589.1	FDLPIALGILAASGQIDRQALADYEFELGELALTGELRGVDGVLPAAALAAQA.GRRLLIPLANGAEAAIAGHVEAFTART	159
NTDB id 1153 A1552VC RS00115 WP 000521788.1	FDLPIALGILAASDQIARNKLESYEFIGELALSGEIRGVKGVLPAALAAANQV.ERCLVVPHSNGDQAALVGVERHKSAQS	159
NTDB id 1397 DSB67 RS15690 WP 005535577.1	FDLPIALGILAASEQIATDKLKNYEFVGLALSGGLRRTVKGVLPAAALAAANKK.QRHLVVPHANGDQAALVGKEQHKSAQS	159
NTDB id 1349 HI 1117 AAC22771.1	FDLPIALGILAASDQLDASHLKQFEFVAELALTGQLRGVHGVIPAILAAQKS.KRELIIAKQNANEASLVSDQNTYFAQT	159
NTDB id 1387 A4U84 RS06900 WP 020457569.1	FDLPIALGILAASGQIDSDKLKRIELLGELSLTGHLRGVHGAIPAVLAASKA.KRETIIVPQQNANEVSLVSNQTTCYCAST	159
consensus	FDLPIALGILAASGQIDSDKLKRIELLGELSLTGHLRGVHGAIPAVLAASKA.KRETIIVPQQNANEVSLVSNQTTCYCAST	159



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NTDB id 1323 RAOC RS07335 WP 004916218.1	LLEVCDYLCQGTSLQSLPPKPDLL...LNNYELDWS DIKQQHAKNAMVIAACGGHSILLSGAPGSGKTMMAKRFSTLL	238
NTDB id 1271 LPP RS03220 WP 011213198.1	LLEVCDYLCQGTSLQSLPPKPDLL...LNNYELDWS DIKQQHAKNAMVIAACGGHSILLSGAPGSGKTMMAKRFSTLL	235
NTDB id 1248 GC085 RS03150 WP 011213198.1	LLEVCDYLCQGTSLQSLPPKPDLL...LNNYELDWS DIKQQHAKNAMVIAACGGHSILLSGAPGSGKTMMAKRFSTLL	235
NTDB id 1003177 ABHI22 RS19890 WP 033482589.1	LLDVCAATLNGSQKAPAAELAVQAL...GARALPDMADVRGQPHARRALEIAAAGGHHLLLVGSPGCGKTL LASRLPGLL	235
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LLEVCAELCGQHQLNLYQTPKKK...ELKAHGRDLQDIIGQQQKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LLEVCAELCGQHQLNLYQTPKKK...ELKAHGRDLQDIIGQQQKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id 1349 HI 1117 AAC22771.1	LLDVVQFLNGQEKPLATEIVKESAVNFSGKNTLDLTDIIGQQHAKRALTIAAAGQHNLLFLGPPGTGKTMLASRLTGLL	239
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LLQVVNFLNNRDQLPIAQQLSQNIAEN.RPLVSRDLTDIIGQQHAKRALTIAAASGQHNLLFLGPPGTGKTMLASRLADLL	238
consensus	LLEVCDYLCQGTSLQSLPPKPDLL...LNNYELDWS DIKQQHAKNAMVIAACGGHSILLSGAPGSGKTMMAKRFSTLL	238



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NTDB id 1323 RAOC RS07335 WP 004916218.1	PEMSDEAELETASISLYQKELNFHNWKRPFRAPHHTASVWALVGGGTIPKPGEISLAHNGVFLDELPEFERKVLLEY	318
NTDB id 1271 LPP RS03220 WP 011213198.1	PELSETQALECAAINSIRGKLP.DFREWRLLPFRAPHHTASPVVALVGGGNPPKPGEISLAHNGVFLDELPEFNRQVLET	314
NTDB id 1248 GC085 RS03150 WP 011213198.1	PELSETQALECAAINSIRGKLP.DFREWRLLPFRAPHHTASPVVALVGGGNPPKPGEISLAHNGVFLDELPEFNRQVLET	314
NTDB id 1003177 ABHI22 RS19890 WP 033482589.1	PEASEAEAELETAAITSISGRGL.DLARWRQRPYRAPHHTASAVALVGGGTIPRPGEISLSHNGVFLDELPEWQRQTLEV	314
NTDB id 1153 A1552VC RS00115 WP 000521788.1	PEMSDEEAMETASIASLTQKEI.NQHNWKLRPFRAPHHSSSMAALVGGGTIPRPGEISLAHNGLLFLDEMPEFERKVLDS	314
NTDB id 1397 DSB67 RS15690 WP 005535577.1	PEMSDEEAMETASVASLTQSEI.NEHNWKLRPFRAPHHSSSMAALVGGGSVPRPGEISLAHNGLLFLDEMPEFDRKVLDS	314
NTDB id 1349 HI 1117 AAC22771.1	PEMTDLEAIETASVTSLVQNEL.NFHNWKLRPFRAPHHSASMPALVGGGTIPKPGEISLATNGVFLDELPEFERKVLDA	318
NTDB id 1387 A4U84 RS06900 WP 020457569.1	PEMTDLEAIETASVTSLVQNEL.NFQNWKKRPFRSPHSSASMPALVGGGSIPKPGEISLAHNGVFLDELPEFERKVLDA	317
consensus	PEMSDEAELETASISLYQKELNFHNWKRPFRAPHHTASVWALVGGGTIPKPGEISLAHNGVFLDELPEFERKVLLEY	318



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NTDB id 1323 RAOC RS07335 WP 004916218.1	LREPLESGEIIISRAAAQIEFPKFLIAAMNPPCGQWGN	397
NTDB id 1271 LPP RS03220 WP 011213198.1	LREPLESGHICISRAAAQIEFPKFLIAAMNPPCGQWGN	394
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREPLESGHICISRAAAQIEFPKFLIAAMNPPCGQWGN	394
NTDB id 1003177 ABHI22 RS19890 WP 033482589.1	LREPLESGVVTIARAARSVDFPARFQLVAAMNPPCGWAGDGS	394
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LREPLESGEIVISRAQCKTRFPAFQFQVGAALNPSTGYEGS	392
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LREPLESGEIIISRAQCKTRFPAFQFQVGAALNPSTGYEGN	392
NTDB id 1349 HI 1117 AAC22771.1	LRQPLESGEIIISRAQCKTRFPAFQFQVGAALNPSTGYHTGT	396
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LRQPLESGEIIISRAQCKTRFPAFQFQVGAALNPSTGYHQT	395
consensus	*!*****!*** * * *!!!!*****!!!!!! * * * * * *!!!!*****!!!!!! * * * * *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	QLSLSD..KRKGESSEITRQVRLKAREIQERYQDLAISYNAQMGPKEIEHF	475
NTDB id 1271 LPP RS03220 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQD...SLNANLNSKTC	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQD...SLNANLNSKTC	470
NTDB id 1003177 ABHI22 RS19890 WP 033482589.1	ALRS..GNLGEDSASVRARVVAARQRLARGA...LPNAQLDQADT	468
NTDB id 1153 A1552VC RS00115 WP 000521788.1	TLANG.GDRGESTAAVRQVRVVARERMLARSG...KVNALLQSREIEQY	467
NTDB id 1397 DSB67 RS15690 WP 005535577.1	TLSEG.GDRGEPTAIVKERVNQARDCMLARSG...KVNALLQSREIEAF	467
NTDB id 1349 HI 1117 AAC22771.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAG...KINAYLNSKEIERD	471
NTDB id 1387 A4U84 RS06900 WP 020457569.1	ALQNNTDQRGETTEQARKRVLEARHLQFNRRG...KINAQLTKEIEQD	471
consensus	! *** * * * *!!!!*****!!!!!! * * * * * *!!!!*****!!!!!! * * * * *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	VSRTIADLERETNIQSHHIAEAIQYRSLDRDFWKV.....	510
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1003177 ABHI22 RS19890 WP 033482589.1	VARTIADLDDSDIATRHLTEATIGYRKLDRAALGAASAA..	506
NTDB id 1153 A1552VC RS00115 WP 000521788.1	VARTIADLQGEAQIARPHLAEALGYRAMDRLLKQLSAQNV	507
NTDB id 1397 DSB67 RS15690 WP 005535577.1	VARTIADLEGSPQIERTHLAEALGYRAMDRLLKQLTAQAV	507
NTDB id 1349 HI 1117 AAC22771.1	VSRTIADLQGEQIFQPHLAEALGYRAMVRLLKQLSNM..	509
NTDB id 1387 A4U84 RS06900 WP 020457569.1	VSRTIADLAGEAQIQPHLAEALGYRAMDRLLQRLQGES.	510
consensus	!*****! * * *!!!!*****!!!!!! * * * * *	

- X non conserved
- X similar
- X ≥ 50% conserved