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NTDB id 1323 RAOC RS07335 WP 004916218.1	MSLAIVYSRASIGVAPVTVVHLSNGPGETLVGLPETAVKESDRVRSALNSQFEFPARRITYNLAPADLPKEGGR	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 413795 IX01104 RS00885 WP 012443690.1	MSLAFTTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETA VKESKDRVRSALINSQFEFPCKRITVNLGPANLPKTTGSG	80
NTDB id 1153 A1552VC RS00115 WP 000521788.1	MSLAIVHSRARVGVHAPVVRVEVHLSGGLPSTQMVGLPEAAVRESRERVRAALLCAQFEFPARRITINLAPADLPKEGGR	80
NTDB id 1397 DSB67 RS15690 WP 005535577.1	MGLAIIHSRASIGVQAPPVTIVEVHISNGMPGFTLVGLPETTVKESRDRVRSALINSRFEFPAKRITVNLAPADLPKEGGR	80
NTDB id 1349 HI 1117 AAC22771.1	MGLAIIHSRASVGVQAPSVSVEVHISNGMPGFTLVGLPETTVKESKDRVRSALIVNSNFQFPKRITVNLAPADLPKEGGR	80
NTDB id 1387 A4U84 RS06900 WP 020457569.1	MSLAIVYSRASMGVQAPLVTTIEVHLSNGKPGFTLVGLPEKTVKEAQDRVRSALMNAQFKYPAKRITVNLAPADLPKEGGR	80
consensus	MSLAIIYSRASIGVEAPLVTTIEVHISGGSPGLTTLVGLPEKSVKEAQDRVRSALMNAFDYPARRITINLAPADLPKEGGR	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 413795 IX01104 RS00885 WP 012443690.1	FDLPIALGILAASGQIDRQALGDYEFELGELALTGELRGIDGVLPAAALAAQA.GRRLLIVPLANGAEAAIAEHVEAFTART	159
NTDB id 1153 A1552VC RS00115 WP 000521788.1	FDLPIALGILAASDQIARNKLESYEFIGELALSGEIRGVKGVLPAAALAAQV.ERCLVVPHSNGDQAALVGVERHKSAQS	159
NTDB id 1397 DSB67 RS15690 WP 005535577.1	FDLPIALGILAASEQIATDKLKNYEFVGLALSGGLRTVKGVLPAALAAANKK.QRHLVVPHANGDQAALVGKEQHKSAQS	159
NTDB id 1349 HI 1117 AAC22771.1	FDLPIALGILAASDQLDASHLKQFEFVAELALTGQLRGVHGVIPAILAAQKS.KRELIIAKQNANEASLVSDQNTYFAQT	159
NTDB id 1387 A4U84 RS06900 WP 020457569.1	FDLPIALGILAASGQIDSDKLKRIELLGELSLTGHLRGVHGAIPAVLAASKA.KRETIIVPQQNANEVSLVSNQTQYCAST	159
consensus	F DL P I A L G I L A A S G Q I I A P E T I E R Y L I M G E L S L D G G Q L P I K G V L P P I A I R A R E E G F G K T I I L P K Q N T R E A A I V N D L E V Y G V E N	159



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NTDB id 1323 RAOC RS07335 WP 004916218.1	LLEVCDFNCGQTSPLAQKPLRLNNYELRDLSDIIGQQHAKRALEIAAGGHNLLFLGPPGTGKTMLASRLSDP	238
NTDB id 1271 LPP RS03220 WP 011213198.1	LREVCDFNCGQTSPLAQKPKPDLL...LNNYELDWS DIKGGQHAKNAMVIAACGGHSILLSGAPGSGKTMMAKRFSTLL	235
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREVCDFNCGQTSPLAQKPKPDLL...LNNYELDWS DIKGGQHAKNAMVIAACGGHSILLSGAPGSGKTMMAKRFSTLL	235
NTDB id 413795 IX01104 RS00885 WP 012443690.1	LLEVCATLNGSQKAPAAELAVQAL...GARALPDMADVRGQPHARRALEIAAAGGHHLLLVGSPGCGKTLLASRLPGLL	235
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LLEVCADLCGQQTLSLFQSSPSV...QQVSQTRDLQDIIGQQQKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LLEVCDELNGQKLNLYQTPKKK...ELKAHGRDLQDIIGQQQKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id 1349 HI 1117 AAC22771.1	LLDVVQFLNGQKLPPLATEIVKESAVNFSGKNTLDLTDIIGQQHAKRALTIAAAGQHNLLFLGPPGTGKTMLASRLTGLL	239
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LLQVVNFLNNRDQLPIAQQLSQNIAEN.RPLVSRDLTDIIGQQHAKRALTIAAAGQHNLLFLGPPGTGKTMLASRLADLL	238
consensus	L L E V C D F N C G Q T S P L A Q K P L R L N N Y E L R D L S D I I G Q Q H A K R A L E I A A G G H N L L F L G P P G T G K T M L A S R L S D P	238



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NTDB id 1323 RAOC RS07335 WP 004916218.1	PEMSDEALETASISLYCKELNFHNWKRPFRAPHHTASVWALVGGGTIPKPGEISLAHNGVFLDELPEFERKVLLEY	318
NTDB id 1271 LPP RS03220 WP 011213198.1	PELSETQALECAAINSIRGKLP.DFREWRLLPFRAPHHTASPVALVGGGNPPKPGEISLAHNGVFLDELPEFNRQVLET	314
NTDB id 1248 GC085 RS03150 WP 011213198.1	PELSETQALECAAINSIRGKLP.DFREWRLLPFRAPHHTASPVALVGGGNPPKPGEISLAHNGVFLDELPEFNRQVLET	314
NTDB id 413795 IX01104 RS00885 WP 012443690.1	PEASEAEALETAATISISGRGL.DLARWRQRPYRAPHHTASAVALVGGGTIPRPGEISLAHNGVFLDELPEWQRQTLEV	314
NTDB id 1153 A1552VC RS00115 WP 000521788.1	PEMSDEEAMETASIASLTQKEI.NQHNWKLRPFRAPHHSSSMAALVGGGTIPRPGEISLAHNGLLFLDEMPEFERKVLDS	314
NTDB id 1397 DSB67 RS15690 WP 005535577.1	PEMSDEEAMETASVASLTQSEI.NEHNWKTTPFRAPHHSSSMAALVGGGSVPRPGEISLAHNGLLFLDEMPEFDRKVLDS	314
NTDB id 1349 HI 1117 AAC22771.1	PEMTDLEAIETASVTSLVQNEL.NFHNWKLRPFRAPHHSSASMPALVGGGTIPKPGEISLATNGVFLDELPEFERKVLDA	318
NTDB id 1387 A4U84 RS06900 WP 020457569.1	PEMTDLEAIETASVTSLVQNEL.NFQNWKLRPFRSPHSSASMPALVGGGSIPKPGEISLAHNGVFLDELPEFERKVLDA	317
consensus	P E M S D E A L E T A S I S L Y C K E L N F H N W K R P F R A P H H T A S V W A L V G G G T I P K P G E I S L A H N G V F L D E L P E F E R K V L L E Y	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 413795 IX01104 RS00885 WP 012443690.1	LREPLESGEIIISRAAAQIEFPKFLIAAMNPPCGQWGN	394
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LREPLESGEIIISRAAAQIEFPKFLIAAMNPPCGQWGN	392
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LREPLESGEIIISRAAAQIEFPKFLIAAMNPPCGQWGN	392
NTDB id 1349 HI 1117 AAC22771.1	LREPLESGEIIISRAAAQIEFPKFLIAAMNPPCGQWGN	396
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LREPLESGEIIISRAAAQIEFPKFLIAAMNPPCGQWGN	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	ELIKPNTHLEKQSLAIREKVTMKEIQMARQD...SLNANLNSKTC	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKEIQMARQD...SLNANLNSKTC	470
NTDB id 413795 IX01104 RS00885 WP 012443690.1	ALRS..GNLGEDSASVRCRVVAARQRLARGA...LPNAQLDQPD	468
NTDB id 1153 A1552VC RS00115 WP 000521788.1	TLANG.GDRGESTAAVRQVRVVARERMLARSG...KVNALLQSR	467
NTDB id 1397 DSB67 RS15690 WP 005535577.1	TLSEG.GDRGEPTAIVKERVNQARDCMLARSG...KVNALLQSR	467
NTDB id 1349 HI 1117 AAC22771.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAG...KINAYLNSKE	471
NTDB id 1387 A4U84 RS06900 WP 020457569.1	ALQNNTDQRGETTEQARKRVLEARHLQFNRRG...KINAQLTKE	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 413795 IX01104 RS00885 WP 012443690.1	VARTIADLQDSADIATRHLTEATIGYRKLDRAISAASAA..	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	VSRTIADLQGEQIFQPHLAEALGYRAMVRLKQLSNM..	509
NTDB id 1387 A4U84 RS06900 WP 020457569.1	VSRTIADLAGEAQIQPHLAEALGYRAMDRLLQRLQGES.	510
consensus	!*****!*!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!	

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