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NTDB id 1323 RAOC RS07335 WP 004916218.1	MSLAIVYSRASIGVAPPVTVVHLSNGPGETLVGLPETTVKESDRVRSALINSFEFPAKRITVNLAPADLPKEGGR	78
NTDB id 1271 LPP RS03220 WP 011213198.1	.MLVKKVYGSAIHGVSAQTITIEVNVDQGV.GYHLVGLPDNAIKESSHRISAALKNVGYKLPKKITINMAPADLRKEGSA	80
NTDB id 1248 GC085 RS03150 WP 011213198.1	MSLAFTTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAINSQFEFPCRKITVNLGPANLPKGTGSG	80
NTDB id 135785 SEEN550 RS23890 WP 000050225.1	MSLAFTTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAINSQFEFPCRKITVNLGPANLPKGTGSG	80
NTDB id 1153 A1552VC RS00115 WP 000521788.1	MSLAIVHTRAALGVNAPPITIEVHISNGLPGLTMVGLPETTVKEARDRVRSAINSGYEFPKAKKITINLAPADLPKEGGR	80
NTDB id 1397 DSB67 RS15690 WP 005535577.1	MGLAIIHSRASIGVQAPPVTVVHISNMGPGFTLVGLPETTVKESRDRVRSAINSRFEFPKAKRITVNLAPADLPKEGGR	80
NTDB id 1349 HI 1117 AAC22771.1	MGLAIIHSRASVGVQAPSVSVEVHISNMGPGFTLVGLPETTVKESKDRVRSAINVSNFQFPKAKRITVNLAPADLPKEGGR	80
NTDB id 1387 A4U84 RS06900 WP 020457569.1	MSLAIVYSRASMGVQAPLVTITIEVHLSNGKPGFTLVGLPEKTVKEAQDRVRSALMNAQFKYPAKAKRITVNLAPADLPKEGGR	80
consensus	MSLAIIYSRASIGVEAPLVTITIEVHISGGSPGLTLVGLPEKSVKEAQDRVRSALMNANFDYPARRITINLAPADLPKEGGR	80



logo

NTDB id 1323 RAOC RS07335 WP 004916218.1	FDLPIALGILAASQQLTIAPEIERYLIMGELSLDGGQLPIKGVLPPIAIRAREEGFGKGIILPKQNTREAAIVNDLEVYGVEN	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 135785 SEEN550 RS23890 WP 000050225.1	YDLPIAVALLAASEQLTESNLEAYELVGLALTGALRGVPGAISSEATEAIRA.GRNIIIVATENAAEVGLISKEGCFIADH	159
NTDB id 1397 DSB67 RS15690 WP 005535577.1	FDLPIALGILAASDQIARNKLESYEFIGELALSGEIRGVKGVLPAAALANQV.ERCLVVPHSNGDQAALVGVERHKSAAQS	159
NTDB id 1349 HI 1117 AAC22771.1	FDLPIALGILAASEQIATDKLKNYEFVGLALSGGLRITVKGVLPAALAAANKK.QRHLVVPHANGDQAALVGKEQHKSAQS	159
NTDB id 1387 A4U84 RS06900 WP 020457569.1	FDLPIAIGILAASDQLDASHLKQFEFVAELALTGQLRGVHGVPAILAAQKS.KRELIIAKQNANEASLVSDQNTYFAQT	159
consensus	FDLPIAIGILAASGQIDSDKLKRIFELGELSLTGHLRGVHGAIPAVLAASKA.KRETIIVPQQNANEVSLVSNQTQYCAST	159



logo

NTDB id 1323 RAOC RS07335 WP 004916218.1	LKEVIDFFNENCPLEPTKVNTREEFHKRVNLPFPDFSEVKGQETAKRAMEVAAAGGHNIIILGPPGSGKTMMAKRIPSTIL	238
NTDB id 1271 LPP RS03220 WP 011213198.1	LREVC DYLCQGTSLQSLPPKPDLL...LLNNYELDWS DIKGQQHAKNAMVIAACGGHSILLSGAPGSGKTMMAKRIFSTLL	235
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREVC DYLCQGTSLQSLPPKPDLL...LLNNYELDWS DIKGQQHAKNAMVIAACGGHSILLSGAPGSGKTMMAKRIFSTLL	235
NTDB id 135785 SEEN550 RS23890 WP 000050225.1	LQTVCAFLEGKHALERPLAQD...MASPTATADLRDVIGQEQQKRGLEITAAGGHNLLILGPPGTGKTMLASRLSGIL	234
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LLEV CADLCGQQTLSLFQSSPSV...QQVSQTRDLQDIIGQQQKQKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LLEVCAELCGQHQLNLYQTPKKK...ELKAHGRDLQDIIGQQQKQKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id 1349 HI 1117 AAC22771.1	LLDVVQFLNGQEKPLATEIVKESAVNFSGKNTLLDLDIIGQQHAKRALTIAAAGQHNLLFLGPPGTGKTMLASRLTGLL	239
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LLQVVNFLNNRDQLPIAQQLSQNIAEN.RPLVSRDLTDIIGQQHAKRALTIAAAGSQHNLLFLGPPGTGKTMLASRLADLL	238
consensus	LKEVIDFFNENCPLEPTKVNTREEFHKRVNLPFPDFSEVKGQETAKRAMEVAAAGGHNIIILGPPGSGKTMMAKRIPSTIL	238



logo

NTDB id 1323 RAOC RS07335 WP 004916218.1	PPSLTLKEALETTKIHSVAGKMGAETSLMTIRPFRSPHHTISDVAVLVGGGSYPQPGEISLAHNGVFLDDEMPEFKRTVLEV	318
NTDB id 1271 LPP RS03220 WP 011213198.1	PELSETQALECAAINSIRGKLPDF.REWRLLPFRAPHHTASPVAVLVGGGNPPKPGEISLAHHGVFLDELPEFNRQVLET	314
NTDB id 1248 GC085 RS03150 WP 011213198.1	PELSETQALECAAINSIRGKLPDF.REWRLLPFRAPHHTASPVAVLVGGGNPPKPGEISLAHHGVFLDELPEFNRQVLET	314
NTDB id 135785 SEEN550 RS23890 WP 000050225.1	PPLSNEEALESAAILSLVNADTVQ.KRWQQRPFRRSPHHSASLTAMVGGGATPAPGEISLAHNGTFLDELPEFERRTLDA	313
NTDB id 1153 A1552VC RS00115 WP 000521788.1	PEMSDEEAMETASIASLTQQEINQ.HNWKL RPFRAPHHSSSMAALVGGGTIPRPGEISLAHNGLLFLDEMPEFERKVLDS	314
NTDB id 1397 DSB67 RS15690 WP 005535577.1	PEMSDEEAMETASVASLTQSEINE.HNWKTRPFRAPHHSSSMAALVGGGSVPRPGEISLAHNGLLFLDEMPEFDRKVLDS	314
NTDB id 1349 HI 1117 AAC22771.1	PEMTDLEAIETASVTSLVQNELNF.HNWKQRPFRAPHHSASMPALVGGGTIPKPGEISLATNGVFLDELPEFERKVLDA	318
NTDB id 1387 A4U84 RS06900 WP 020457569.1	PEMTDLEAIETASVTSLVQNELNF.QNWKKRPFRSPHHSASMPALVGGGSIPKPGEISLAHNGVFLDELPEFERKVLDA	317
consensus	PEMSDEEAMETASIASLTQQEINQ.HNWKL RPFRAPHHSSSMAALVGGGTIPRPGEISLAHNGVFLDDEMPEFKRTVLEV	318



logo

NTDB id 1323 RAOC RS07335 WP 004916218.1	LREPLESGEIIISRAAKIIFPAFQLYAAMNPSPTCGYGQONRITPQRIIRYLNRLSGPIIDREFDMSIEVPALPQG	397
NTDB id 1271 LPP RS03220 WP 011213198.1	MRQPLEDRVETISRAKFTVNYPASFMLVASMNPSPSGFFPDDPNNT.SSSFEMQRYLNLKLSGPLLDRIDITHIEVQKVVEFD	394
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNISQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 135785 SEEN550 RS23890 WP 000050225.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNISQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	391
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LREPLESGEIVISRAQKTRFPAFQFQLVGALNPSPGTGYEGSSQA..RANPQSILRYLSRLSGPLLDRFDMSTIEIPALPKG	392
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LREPLESGEIIISRAQKTRFPAFQFQLVGALNPSPGTGYEGNQA..RTNPQAAILRYLGRLSGPLLDRFDMSTIEIPALPKG	392
NTDB id 1349 HI 1117 AAC22771.1	LRQPLESGEIIISRAQKTRFPAFQFQLVGALNPSPGTGYEGNQA..RTNPQAAILRYLGRLSGPLLDRFDMSTIEIPALPKG	396
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LRQPLESGEIIISRAQKTRFPAFQFQLVGALNPSPGTGYEGNQA..RTNPQAAILRYLGRLSGPLLDRFDMSTIEIPALPKG	395
consensus	*!***** *!* ** *!*!*****!!*! * ** * ** *!!!! *!!!!*!!!!*!!!!***** ** *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	QLSD..KRKGESSEIRQRVLKAREIQQERYQDLAISYNAQMGPKEIEHFCELDVSLLLIKNAMEKLNLSARAYDRILK	475
NTDB id 1271 LPP RS03220 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKIKLSARGYHRLIK	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKIKLSARGYHRLIK	470
NTDB id 135785 SEEN550 RS23890 WP 000050225.1	ILSQH.ASKGESSATVKKRVIAAHERQYRRQKK...LNARLEGREIQKYCVLHHDARWLEDTLVHLGLSTRAWQRLIK	466
NTDB id 1153 A1552VC RS00115 WP 000521788.1	TLANG.GDRGESTAAVRQVRVVARERMLARSGK...VNALLQSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIIK	467
NTDB id 1397 DSB67 RS15690 WP 005535577.1	TLSEG.GDRGEPTAIVKERVNQARDCMLARSGK...VNALLQSREIEAFCLPLQKSDAEFLENALHRLGLSIRAYHRIIK	467
NTDB id 1349 HI 1117 AAC22771.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAGK...INAYLNSKEIERDCKLNDKDAFFLEKALNKLGLSVRAYHRILK	471
NTDB id 1387 A4U84 RS06900 WP 020457569.1	ALQNNTDQRGETTEQARKRVLEARHLQFNRRGK...INAQLITKEIEQDCKLITDRDALFLENALTKLGLSVRAYHRILK	471
consensus	! ***** * *! ***** ! * *! ! * ***** ! ! ** *** * *! ! ! ! ! ! ! ! ! ! ! !	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	VSRTIADLERETNIQSHHIAEAIQYRSIDRDFWKV.....	510
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQALSQKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQALSQKQNLHLPK.....	503
NTDB id 135785 SEEN550 RS23890 WP 000050225.1	VARTIADIELADQISRQHLQEAVSYRAIDRLLIHLLQKLLA	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	VSRTIADLQGEQQIFQPHLAEALGYRAMVRLKQLSNM..	509
NTDB id 1387 A4U84 RS06900 WP 020457569.1	VSRTIADLAGEAQIQPHLAEALGYRAMDRLLQRLQGES.	510
consensus	! ! ! ! ! ! ! * * * ! * ! * ! * ! * ! * ! * ! *	

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