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NTDB id 1323 RAOC RS07335 WP 004916218.1	MSLAIVYSRASIGVAPPVTVVHLSNGPGETLVGLPETTVKESDRVRSALINSQEEPAKRITVNLAPADLPKEGGR	78
NTDB id 1271 LPP RS03220 WP 011213198.1	.MLVKKVYGSAIHGVSAQTTITIEVNVDDGV.GYHLVGLPDNAIKESSHRISAALKNVGYKLPKKITINMAPADLRKEGSA	80
NTDB id 1248 GC085 RS03150 WP 011213198.1	MSLAFTTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAINSQFEFPCRKITVNLGPANLPKGTGSG	80
NTDB id 1065600 ACHP5K RS23010 WP 000058964.1	MSLAFTTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAINSQFEFPCRKITVNLGPANLPKGTGSG	80
NTDB id 1153 A1552VC RS00115 WP 000521788.1	MSLSIVHTRIALGLVNAPPITVEVHISKGLPGLTMVGLPETTVKEARDRVRSAINSGYEYPAKKITINLAPADLPKEGGR	80
NTDB id 1397 DSB67 RS15690 WP 005535577.1	MGLAIIHSRASIGVQAPPVTVEVHISNGMPGFTLVGLPETTVKESRDRVRSAINSRFEFPAKRITVNLAPADLPKEGGR	80
NTDB id 1349 HI 1117 AAC22771.1	MGLAIIHSRASVGVQAPSVSVEVHISNGMPGFTLVGLPETTVKESKDRVRSAINVSNFQFPAKRITVNLAPADLPKEGGR	80
NTDB id 1387 A4U84 RS06900 WP 020457569.1	MSLAIVYSRASMGVQAPLVTIEVHLSNGKPGFTLVGLPEKTVKEAQDRVRSALMNAQFKYPAKRITVNLAPADLPKEGGR	80
consensus	MSLAIIYSRASIGVEAPLVTIEVHISGGSPLTLVGLPEKSVKEAQDRVRSALMNANFDYPARRITINLAPADLPKEGGR	80



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NTDB id 1323 RAOC RS07335 WP 004916218.1	FDLPIALGILAASQQLTANKLKNYEFYGEALGSLRGVKGVLPAALAAKRLIYLPKQNADEASLVGQVYAN	158
NTDB id 1271 LPP RS03220 WP 011213198.1	YDLSTIALGILAASGQIIAPEIERYLIMGELSLDGGQLPIKGVLPPIARAREEGFGKTIILPKQNTREAAIVNDLEVYGVEN	159
NTDB id 1248 GC085 RS03150 WP 011213198.1	FDLPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id 1065600 ACHP5K RS23010 WP 000058964.1	FDLPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id 1153 A1552VC RS00115 WP 000521788.1	YDLPIAIALLAASEQLTANKLDEYELVGEALATGALRGVPGAIISSATEAIKS.GRKLIVAKDNEDEVGLINGEGCLIADH	159
NTDB id 1397 DSB67 RS15690 WP 005535577.1	FDLPIALGILAASDQIARNKLESYEFIGELALSGEIRGVKGVLPAALAAANQV.ERCLVPHSNGDQAALVGVERHKSQAS	159
NTDB id 1349 HI 1117 AAC22771.1	FDLPIALGILAASEQIATDKLKNYEFVGEALALSGGLRTVKGVLPAALAAANKK.QRHLVVPHANGDQAALVGKEQHKSAQS	159
NTDB id 1387 A4U84 RS06900 WP 020457569.1	FDLPIAIGILAASDQLDASHLKQFEFVAELALTGQLRGVHGVIPAILAAQKS.KRELIIAKQNANEASLVSDQNTYFAQT	159
consensus	FDLPIAIGILAASGQIDSDKLKRIFELGELSLTGHLRGVHGAIPAVLAASKA.KRETIIVPQQNANEVSLVSNQTQTYCAST	159



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NTDB id 1323 RAOC RS07335 WP 004916218.1	LLEVCDELGGQTSGLLQQLPKKLLNNYELDLSDIIGQQHAKRALEIAAGGHNLLFLGPPGTGKTMLASRLCDLL	238
NTDB id 1271 LPP RS03220 WP 011213198.1	LREVCDELQCGTSLQSLPPKPDLLNNYELDLSDIIGQQHAKRALEIAAGGHNLLFLGPPGTGKTMLAKRIPSTIL	235
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREVCDELQCGTSLQSLPPKPDLLNNYELDLSDIIGQQHAKRALEIAAGGHNLLFLGPPGTGKTMLAKRIPSTIL	235
NTDB id 1065600 ACHP5K RS23010 WP 000058964.1	LQAVCAFLGKHALERPKPPTDA...VSRALQHDLSDVIGQEQGKRGLEITAAGGHNLLFLGPPGTGKTMLASRLINGLL	234
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LLEVCADLCGQQTLSLFQSSPSV...QQVSQTRDLQDIIGQQQKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LLEVCDELQCGHQLNLYQTPKKK...ELKAHGRDLQDIIGQQQKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id 1349 HI 1117 AAC22771.1	LLDVVQFLNGQEKPLATEIVKESAVNFSGKNTLLDLDIIGQQHAKRALTIAAAGQHNLLFLGPPGTGKTMLASRLTGLL	239
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LLQVVNFLNNRDQLPIAQQLSQNIAEN.RPLVSRDLTDIIGQQHAKRALTIAAAGQHNLLFLGPPGTGKTMLASRLADLL	238
consensus	LLEVCDELGGQTSGLLQQLPKKLLNNYELDLSDIIGQQHAKRALEIAAGGHNLLFLGPPGTGKTMLASRLCDLL	238



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NTDB id 1323 RAOC RS07335 WP 004916218.1	PEMSDEALEETASISLVQKEENFHNWKRPFRAPHHSASMAALVGGGSIKPKGEISLAHNGVFLDELPEFERKVLDA	318
NTDB id 1271 LPP RS03220 WP 011213198.1	PELSETQALECAAINSIRGKLPDF.REWRLLPFRAPHHTASPVALVGGGNPPKPEISLAHHGVFLDELPEFNRQVLET	314
NTDB id 1248 GC085 RS03150 WP 011213198.1	PELSETQALECAAINSIRGKLPDF.REWRLLPFRAPHHTASPVALVGGGNPPKPEISLAHHGVFLDELPEFNRQVLET	314
NTDB id 1065600 ACHP5K RS23010 WP 000058964.1	PDLSENEALESAAISLVNAESVQ.KQWRQRPFRSPHHSASLTAMVGGGATPGPGEISLAHNGVFLDELPEFERRTLDA	313
NTDB id 1153 A1552VC RS00115 WP 000521788.1	PEMSDEEAMETASIASLTQQEINQ.HNWKLRPFRAPHHSSMAALVGGGTIPRPGGEISLAHNGLLFLDEMPEFERKVLDS	314
NTDB id 1397 DSB67 RS15690 WP 005535577.1	PEMSDEEAMETASVASLTQSEINE.HNWKTRPFRAPHHSSMAALVGGGSVPRPGGEISLAHNGLLFLDEMPEFDRKVLDS	314
NTDB id 1349 HI 1117 AAC22771.1	PEMTDLEAIETASVTSLVQNELNF.HNWKRPFRAPHHSASMPALVGGGTIPKPEISLATNGVFLDELPEFERKVLDA	318
NTDB id 1387 A4U84 RS06900 WP 020457569.1	PEMTDLEAIETASVTSLVQNELNF.HNWKKRPFRSPHHSASMPALVGGGSIPKPEISLAHNGVFLDELPEFERKVLDA	317
consensus	PEMSDEALEETASISLVQKEENFHNWKRPFRAPHHSASMAALVGGGSIKPKGEISLAHNGVFLDELPEFERKVLDA	318



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NTDB id 1323 RAOC RS07335 WP 004916218.1	LREPLESGEIIISRAAKIIFPAFQLYAAMNPSPSGFFPDDPNNT.SSSFEMQRYLNKLSGPLLDRIDITHIEVQKVVEFD	397
NTDB id 1271 LPP RS03220 WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 1065600 ACHP5K RS23010 WP 000058964.1	LREPIESGQIHLSRTRAKITYPARFQLVAAMNPSPSGHYQGNNH..RCTPEQTLRYLNRLSGPFLDRFDLSLEIPLPPPG	391
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LREPLESGEIVISRAQKTRFPAFQLVGALNPSPSGYYEGSSQA..RANPQSILRYLSRLSGPLLDRFDMSTIEIPALPKG	392
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LREPLESGEIIISRAQKTRFPAFQIVGALNPSPSGYYEGNQA..RTNPQAAILRYLGRLSGPLLDRFDMSTIEIPALPKG	392
NTDB id 1349 HI 1117 AAC22771.1	LRQPLESGEIIISRANAKIQFPAFQLVAAAMNPSPSGHYTGTHN..RTSPQQIMRYLNRLSGPFLDRFDLSIEVPLLPQG	396
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LRQPLESGEIIISRANAKVFFPAFQLIAAMNPSPSGHYQGTHN..RTSPQQLMRYLNRLSGPFLDRFDLSIEVPLLPQG	395
consensus	*!***** *!* ** *!!!!*****!!*! * ** * ** *!!!! *!!!!*!!!!*!!!!***** ** *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	QLSD..KRKGESSEIRQRVLKAREIQQERYQDLAISYNAQMGPKEIEHFCELDEVSLLLIKNAMEKLNLSARAYDRILK	475
NTDB id 1271 LPP RS03220 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKIKLSARGYHRLK	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKIKLSARGYHRLK	470
NTDB id 1065600 ACHP5K RS23010 WP 000058964.1	ILSKT.VVPGESSATVQRVMAARERQFQRQNK...LNAWLDSPETIRQFCKLESEDAMWLEGLTIHLGLSTRAWQRLK	466
NTDB id 1153 A1552VC RS00115 WP 000521788.1	TLANG.GDRGESTAAVRQRVWVARERMLARSGK...VNALLQSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIK	467
NTDB id 1397 DSB67 RS15690 WP 005535577.1	TLSEG.GDRGEPTAIVKERVNQARDCMLARSGK...VNALLQSREIEAFCLPQKSDAEFLENALHRLGLSIRAYHRIK	467
NTDB id 1349 HI 1117 AAC22771.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAGK...INAYLNSKEIERDCKLNDKDAFFLEKALNKLGLSVRAYHRILK	471
NTDB id 1387 A4U84 RS06900 WP 020457569.1	ALQNNTDQRGETTEQARKRVLEARHLQFNRRGK...INAQLTKEIEQDCKLTDRDAFLFLENALTKLGLSVRAYHRILK	471
consensus	! ***** * *! ***** ! * *!! * ***** !! ***** * *!*****!*****!*****	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	VSRTIADLERETNIQSHHIAEAIQYRSIDRDFWKV.....	510
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1065600 ACHP5K RS23010 WP 000058964.1	VARTIADIDQSDIITRQHLQEAVSYRAIDRLLIHLLQKLLT	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