

NTDB id	1323 RAOC RS07335 WP 004916218.1	.MLVVKVYGS A IHGVSAQTITTEVNVDQGV.GYHLVLGLPDNATIKESSHRISAAAKNVGYKLPGKKKITINMAPADLRKEGSA	78
NTDB id	1271 LPP RS03220 WP 011213198.1	MSLAFTKTRSTIGTIVAQPVSVEVHLSNGLPSEFTMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG	80
NTDB id	1248 GC085 RS03150 WP 011213198.1	MSLAFTKTTRSTIGTIVAQPVSVEVHLSNGLPSEFTMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG	80
NTDB id	1012565 ABU968 RS23040 WP 000058957.1	MSLSIVHTRAALGVNAAPPITVEVHISEKGLPCLTMVGLPETVKEARDVRSAIINSGYEYPKKKITINLAPADLPKEGGGR	80
NTDB id	1153 A1552VC RS00115 WP 000521788.1	MGLAIITHSRASIGVQAAPPVTVEVHISNGMPGFLLTVGLPETTVKESRDRVRSAIINSRFEFPAKRITVNLAPADLPKEGGGR	80
NTDB id	1397 DSB67 RS15690 WP 005535577.1	MGLAIITHSRASVGVAQSVPVEVHLSNGMPGFLLTVGLPETTVKESKDRVRSAIVNSNFQFPARKITVNLAPADLPKEGGGR	80
NTDB id	1349 HI 1117 AAC22771.1	MSLAIVYSRASMGVQAAPLVITEVHLSNGKPGETTLVGLPEKTVKEAQDVRVSALMNAAFQFKYPAKRITVNLAPADLPKEGGGR	80
NTDB id	1387 A4U84 RS06900 WP 020457569.1	MSLAIIYSRASIGVEAPLVTIEVHISGGSPGLTMLVGLPEKS VKEAQDVRVSALMNAFDYPARRITINLAPADLPKEGGGR	80
consensus		* * ! * * * * * * * ! * ! * * * * ! * ! * * * * * ! ! * * * * * ! ! * * ! * * * * ! * ! * ! * * ! * ! * ! *	

NTDB id	1323	RAOC RS07335 WP 004916218.1	YDLSTALGILAASGGTIIAPEIERVYLIMGELSLDGGGLQPIKGVLPATIRAREEGFGKITLTKPQNRTREAAIVNDLELVYGVEN	158
NTDB id	1271	LPP RS03220 WP 011213198.1	FDPILPALGILAASEQIPLTNLANHEFIGELALSSELGRGVSATIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1248	GCO85 RS03150 WP 011213198.1	FDPILPALGILAASEQIPLTNLANHEFIGELALSSELGRGVSATIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1012565	ABU968 RS23040 WP 000058957.1	YDLPPIATADLAASEQTANKLDEVEFLVGELALTGALRGVPCATISSATEAIKS.GRKTIIVAKDNEDEVGLINGECGLIADH	159
NTDB id	1153	A1552VC RS00115 WP 000521788.1	FDPILPALGILAASDQIARNKLESYEFIGELALSGETRGRVKGVLPAAALANQV.ERCLVVPHSNGDQAALVGVERHKSAQS	159
NTDB id	1397	DSB67 RS15690 WP 005535577.1	FDPILPALGILAASEQIATDKLKNYEFVGEALSGGLRTVKGVLPAALAAKK.QRHLLVYPHANGDQAALVGKEQHKSAAQS	159
NTDB id	1349	HI 1117 AAC22771.1	FDPPIATGILAASGDIDASHLKQFEFVAELATGQLRGVHGVPAPALAAQKS.KRELITIAKNANEASLVSDQNTYFAQT	159
NTDB id	1387	A4U84 RS06900 WP 020457569.1	FDPPIATGILAASGQIDSDKLKRIFELLGELSITGHLRGVHGAIPAVLAASKA.KRETIIVPQQNANEASLVSNVTQTYCAST	159
consensus			*!!*!!**!!!!!* * * !!**!!*! * !!*** **!! * * *** !* ** *	

NTDB id	1323	RAOC RS07335 WP	004916218.1	IKEVIDFFNENCPLEPTKVNTREEEFHKRVNLFPFDFSEVKGGQETAKRAMEVAAGGHNHLLIGPPGSGKTMIAKRIPSL	238
NTDB id	1271	LPP RS03220 WP	011213198.1	IREVCDYLCCGTSLQLSPKKPDL...LLNNYELDWSDIKGQQHAKNAMVIAACGGHSILLSCAPGSGKTMAKRFSTLL	235
NTDB id	1248	GCO85 RS03150 WP	011213198.1	IREVCDYLCCGTSLQLSPKKPDL...LLNNYELDWSDIKGQQHAKNAMVIAACGGHSILLSCAPGSGKTMAKRFSTLL	235
NTDB id	1012565	ABU968 RS23040 WP	000058957.1	LQAVCAFLLEGKHALHEHPKPNTA...VSRLQHDLSDVVGGEQCKRGLEITAAAGGHNLLLIGPPGTGKTMLASRINGLL	234
NTDB id	1153	A1552VC RS00115 WP	000521788.1	LLEVCAIDLCCGQQTSLFQSSPSV...QQVSQTRDLQDIIIGQQQCKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id	1397	DSB67 RS15690 WP	005535577.1	LLEVCAELCGQHQLNLYQTPKKK...ELKAHGRDLQDIIIGQQQCKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id	1349	HI 1117 AAC22771.1		LLDVVQFLNGQEKLPLATEIVKESAVNFSGKNLTLDTIDIIIGQQHAKRALTIAAQGHNLLFLGPPGTGKTMLASRLTG	239
NTDB id	1387	A4U84 RS06900 WP	020457569.1	LLGVVNFLNNRDQLPIAQQLSQNIAEN.RPLVSRDLTDIIGQQHAKRALTIAASGQHNLFLGPPGTGKTMLASRLADLL	238
consensus				* * * * *	!
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NTDB id	1323	RAOC RS07335 WP 004916218.1	PPLTLKEAEETTKTHSVAGKMGAETSLMTIRPFRSPHHTISDVVALVGGGSYPQGEISLAHNGLVFLDLMPEFKRTIVLEV	318
NTDB id	1271	LPP RS03220 WP 011213198.1	PELSETGATECAAINSTRIGKLPDF.REWRILPPFRAPHHTASPVVALVGGGNPKPGEISLAHNGVLFLDELPEFNRQVLETF	314
NTDB id	1248	GC085 RS03150 WP 011213198.1	PELSETGATECAAINSTRIGKLPDF.REWRILPPFRAPHHTASPVVALVGGGNPKPGEISLAHNGVLFLDELPEFNRQVLETF	314
NTDB id	1012565	ABU968 RS23040 WP 000058957.1	PDLISNEEAESAAILSLVNAESVQ.KQRWRPFRSPHHSASTAMVGGGATPGPGEISLAHNGLVFLDELPEFERRTLDA	313
NTDB id	1153	A1552VC RS00115 WP 000521788.1	PEMSDEEAMETASIASLTQQEINQ.HNWKLRPFRAPHHSSMAALVGGGTIPRGPGEISLAHNGLFLDLMPEFEKRVLDLS	314
NTDB id	1397	DSB67 RS15690 WP 005535577.1	PEMSDEEAMETASVASLTQSEINE.HNWKTRPFRAPHHSSMAALVGGGSVPRGPGEISLAHNGLFLDLMPEFDKRVLDLS	314
NTDB id	1349	HI 1117 AAC22771.1	PEMTDLEAETASVTSLVQNELNF.HNWKQRPFRAPHHSSMPALVGGGTIPKGPGEISLATNGVLFLDELPEFERKRVLDA	318
NTDB id	1387	A4U84 RS06900 WP 020457569.1	PEMEDDEAETASVTSLVQNELNF.QNVKKRPFRSPHHSASMVVALVGGGSIPKGPGEISLAHNGLVFLDELPEFERKRVLDA	317
consensus			!**** *!*!* ** !* * * **** *!*****!!*!!!!!!*!!*!!*!	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	LREPLESGEIIISRAAKIIFPAFQLYAAMNPSPTCGYGSONRITPQRIIRYLNRLSGPIIDREFDMSIEIPALPQG	397
NTDB id 1271 LPP RS03220 WP 011213198.1	MRQPLEDRVETISRAKFTVNYPASFMLVASMNPSPSGFFPDDPNNT.SSSFEMQRYLNKLSGPLLDRIDITHIEVQKVVEFD	394
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNISQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 1012565 ABU968 RS23040 WP 000058957.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNISQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	391
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LREPLESGEIVISRAQKTRFPAFQLVGALNPSPGTGYEGSSQA..RANPQSILRYLSRLSGPLLDRFDMSTIEIPALPKG	392
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LREPLESGEIIISRAQKTRFPAFQIVGALNPSPGTGYEGNQA..RTNPQAAILRYLGRLSGPLLDRFDMSTIEIPALPKG	392
NTDB id 1349 HI 1117 AAC22771.1	LRQPLESGEIIISRAANAKIQFPAFQLVAAAMNPSPGTGHYTGTNH..RTSPQQIMRYLNRLSGPFLLDRFDSLIEVPLLPQG	396
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LRQPLESGEIIISRAANAKVFFPAFQLIAAMNPSPGTGHYQGTNH..RTSPQQIMRYLNRLSGPFLLDRFDSLIEVPLLPQG	395
consensus	*!***** *!!* *** *!!!!*****!!*!!* * ** * ** *!!!! *!!!!*!!!!*!!!!***** ** *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	QNSKNGEISAAVYRERVKARELSARQKNALESKEIECKLSEDALEENALKGLSARAYHRLIK	475
NTDB id 1271 LPP RS03220 WP 011213198.1	QLSD..KRKGESSEIRQRVLKAREIQQERYQDLAISYNAQMGPKEIEHFCELDVSLLLIKNAMEKLNLSARAYDRILK	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKIKLSARGYHRLIK	470
NTDB id 1012565 ABU968 RS23040 WP 000058957.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKIKLSARGYHRLIK	466
NTDB id 1153 A1552VC RS00115 WP 000521788.1	ILSKT.VVPGENSTTVKQRVMAARERQFKRQNK...LNAWLDNPEIRQFCKLESEDAQWLEETLIHLGLSTRAWQRLIK	467
NTDB id 1397 DSB67 RS15690 WP 005535577.1	TLANG.GDRGESTAAVRQRVWVARERMLARSGK...VNALLQSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIK	467
NTDB id 1349 HI 1117 AAC22771.1	TLSEG.GDRGEPTAIVKERVNQARDCMLARSGK...VNALLQSREIEAFCPQLQKSDAEFLENALHRLGLSIRAYHRIK	471
NTDB id 1387 A4U84 RS06900 WP 020457569.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAGK...INAYLNSKEIERDCKLNDKDAFFLEKALNKLGLSVRAYHRILK	471
consensus	ALQNNTDQRGETTEQARKRVLEARHLQFNRRGK...INAQLITKEIEQDCKLITDRDALFLENALTKLGLSVRAYHRILK	
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NTDB id 1323 RAOC RS07335 WP 004916218.1	VSRTIADLERETNIQSHHIAEAIQYRSIDRDFWKV.....	510
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADLNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADLNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1012565 ABU968 RS23040 WP 000058957.1	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	VSRTIADLQGEQKIFQPHLAEALGYRAMVRLKQLSNM..	509
NTDB id 1387 A4U84 RS06900 WP 020457569.1	VSRTIADLAGEAQIQPHLAEALGYRAMDRLLQRLQGES.	510
consensus	!*****! ** !****! * !***** *	

- ☒ non conserved
- ☒ similar
- ☒ ≥ 50% conserved