

[illegible]

NTDB id	1323	RAOC RS07335 WP 004916218.1	YDLSTALGILAASGGTIIAPEIERVYLIMGELSDDGGLQPIKGVLPATIRAREEGFGKITLTKPQNTRERAAIVNDLELVGVEN	158
NTDB id	1271	LPP RS03220 WP 011213198.1	FDPILPALGILAASEQIPLTNLANHEFIGELALSSELRGVSATIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1248	GC085 RS03150 WP 011213198.1	FDPILPALGILAASEQIPLTNLANHEFIGELALSSELRGVSATIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1010678	ABRP06 RS23760 WP 271387339.1	YDLPPIATADLAASEQTANKLDEVELVGELALTGALRGVPCATISSATEAIKS.GRKTIIVAKDNEDEVGLINGECGLIADH	159
NTDB id	1153	A1552VC RS00115 WP 000521788.1	FDPILPALGILAASDQIARNKLESVEFIGELALSSEITRGVKGVLPALAANQV.ERCLVVPHSNGDQAALVGVERHKSAQS	159
NTDB id	1397	DSB67 RS15690 WP 005535577.1	FDPILPALGILAASEQIATDKLKNYEFVGELALSGGLRTIKGVLPALAANKK.QRHLVVPHANGDQAALVGKEQHKSAS	159
NTDB id	1349	HI 1117 AAC22771.1	FDPPIATGILAASDQLDASHLKQFEFVAELATGQLRGVHGVIAPALAAQKS.KRELIIAKQNANEASLVSDQNTYFAQT	159
NTDB id	1387	A4U84 RS06900 WP 020457569.1	FDPPIATGILAASQIDSDSKLKRIELLGELSLTGHLRGVHGAIIPAVLAASKA.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	GC085 RS03150 WP	011213198.1	IREVCDYLCCGTSLQLSPKKPDL...LLNNYELDWSDIKGQQHAKNAMVIAACGGHSILLSCAPGSGKTMAKRFSTLL	235
NTDB id	1010678	ABRP06 RS23760 WP	271387339.1	LQAVCAFLLEGKHALERPKPTDA...VSRALQHDLSDVIGQEQRGLLEITAAAGHNHLLIGPPGTGKTMLASRINGLL	234
NTDB id	1153	A1552VC RS00115 WP	000521788.1	LLEVCAIDLCCGQQTSLFQSSPSV...QQVSQTRDLQDIIGQQQGKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id	1397	DSB67 RS15690 WP	005535577.1	LLEVCAELCGQHQLNLYQTPKKK...ELKAHGRDLQDIIGQQQGKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id	1349	HI 1117 AAC22771.1		LLDVVQFLNGQEKLPLATEIVKESAVNFSGKNLTLTDIIGQQHAKRALTIAAQGHNLLFLGPPGTGKTMLASRLTG	239
NTDB id	1387	A4U84 RS06900 WP	020457569.1	LLQVVNFLNNRDQLPIAQQLSQNIAEN.RPLVSRDLTDIIGQQHAKRALTIAASGQHNLFLGPPGTGKTMLASRLADLL	238
consensus				* * ! * * * * ! * * ! * * * * * * ! * ! * * * * ! * ! * * * * ! * ! * ! * ! * ! * ! * ! *	

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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 1010678 ABRP06 RS23760 WP 271387339.1	LREPIESGQIHLSRTRAKITYPARFQLVAAMNPSPSGHYQGIIHN..RCTPEQTLRYLNRLSGPFLDRFDLSLEIPLPPPG	391
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LREPLESGEIVISRAQKTRFPAFQLVGALNPSPSGHYEGSSQA..RANPQSILRYLSRLSGPLLDRFDMSTIEIPALPKG	392
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LREPLESGEIIISRAQKTRFPAFQIVGALNPSPSGHYEGNQA..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...LNANLNSKTCCEMVCELGSEEQLFLREVMSKLLKSARGYHRLLK	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKLLKSARGYHRLLK	470
NTDB id 1010678 ABRP06 RS23760 WP 271387339.1	ILSKT.VVPGESSATVQQRVMAARERQFQRQNK...LNAWLDSPETIRQFCKLESEDAMWLEGLTIHLGLSTRAWQRLK	466
NTDB id 1153 A1552VC RS00115 WP 000521788.1	TLANG.GDRGESTAAVRQVRVVARERMLARSGK...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...INAQLTTKEIEQDCKLTDRDAFLFLENALTKLGLSVRAYHRILK	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 1010678 ABRP06 RS23760 WP 271387339.1	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	!***** ** !**** * !***** *	

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