

NTDB id	1323	RAOC RS07335 WP	004916218.1	.MLVVKYVGSAIHGVSAQTITTEVNVDQGV.GYHLVLGLPDNALIKESSHRISAAKKNVGYKLPGKKKITINMAPADLRKEGSA	78
NTDB id	1271	LPP RS03220 WP	011213198.1	MSLAFTKRSTIGTIVAQPVSEVEHLSNGLPSTFMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG	80
NTDB id	1248	GCO85 RS03150 WP	011213198.1	MSLAFTKTIRSTIGTIVAQPVSVEVHLSNGLPSTFMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG	80
NTDB id	1051985	ACE1E5 RS26055 WP	001691079.1	MSLSIVHTIRALAGVNAAPPITVEVHSKGLPCLTMVGLPETVKEARDVRSAIINSGEYEPAKKITINLAPADLPKEGGGR	80
NTDB id	1153	A1552VC RS00115 WP	000521788.1	MGLAIHHSRASIGVQAAPPVTVEVHLSNGMPGFLLTVGLPETTVKESRDRVRSAIINSRFEPFAKRITVNLAPADLPKEGGGR	80
NTDB id	1397	DSB67 RS15690 WP	005535577.1	MGLAIHHSRASVGVQAPSVEVEHLSNGMPGFLLTVGLPETTVKESKDRVRSAIINSNFQFPAKRITVNLAPADLPKEGGGR	80
NTDB id	1349	HI 1117 AAC22771.1		MSLAIVYSRASMGVQAAPLVITEVHLSNGKPGETTLVGLPEKTVKEAQDVRVSALMNAQFKYPAKRITVNLAPADLPKEGGGR	80
NTDB id	1387	A4U84 RS06900 WP	020457569.1	MSLAIVYSRASIGVEAAPLVITEVHLSGGSPGLTTLVGLPEKS VKEAQDVRVSALMNADFDPARRITINLAPADLPKEGGGR	80
consensus				* * ! * * * * * * * ! * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! *	

NTDB id	1323	RAOC RS07335 WP 004916218.1	YDLSTALGILAASGGTIIAPEIERVYLIMGELSDDGGLQPIKGVLPATIRAREEGFGKITLTKPQNRTREAAIVNDLELVYGVEN	158
NTDB id	1271	LPP RS03220 WP 011213198.1	FDPILPALGILAASEQIPLTNLANHEFIGELALSSELGRGVSATIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1248	GC085 RS03150 WP 011213198.1	FDPILPALGILAASEQIPLTNLANHEFIGELALSSELGRGVSATIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1051985	ACE1E5 RS26055 WP 001691079.1	YDLPPIATADLAASEQTANKLEDVEFLVGELALTGALRGVPCATISSATEAIKS.GRKTIIVAKDNEDEVGLINGECGLVADH	159
NTDB id	1153	A1552VC RS00115 WP 000521788.1	FDPILPALGILAASDQIARNKLESVEFIGELALSSEITRGVKGVLPAAALANQV.ERCLVVPHSNGDQAALVGVERHKSAQS	159
NTDB id	1397	DSB67 RS15690 WP 005535577.1	FDPILPALGILAASEQIATDKLKNYEFVGEALSGGLRITKGVLPAAALANQV.QRHLLVYPHANGDQAALVGKEQHKSAAQS	159
NTDB id	1349	HI 1117 AAC22771.1	FDPPIATIGILAASGDIDASHLKQFEFVAELATGQLRGVHGVIAPALAAQKS.KRELIIAKQNANEASLVSDQNTYFAQT	159
NTDB id	1387	A4U84 RS06900 WP 020457569.1	FDPPIATIGILAASGQIDSDKLKRIFELLGELSLTGHLRGVHGAIIPAVLAASKA.KRETIIVPQQNANEASLVSNVTQTYCAST	159
consensus			*!!*!!**!!!!!* * * !!***!!*! * !**** **!! * * **** *! * !!** *	

NTDB id	1323	RAOC RS07335 WP	004916218.1	IKEVIDFFNENCPL	EPTKVNTREEFHKRVNLFPFDFSEVKGGQETAKRAMEVAAGGHNHLLIGPPGSGKTMLAKRIPSL	238
NTDB id	1271	LPP RS03220 WP	011213198.1	IREVCDYLCCGTSL	QLSPLPKPDL... LLNNYELDWSDIKGQQHAKNAMVIAACGGHSILLSCAPGSGKTMMKRKFSTLL	235
NTDB id	1248	GC085 RS03150 WP	011213198.1	IREVCDYLCCGTSL	QLSPLPKPDL... LLNNYELDWSDIKGQQHAKNAMVIAACGGHSILLSCAPGSGKTMMKRKFSTLL	235
NTDB id	1051985	ACE1E5 RS26055 WP	001691079.1	LQAVCAFLCGKHALLERPKPTDA...	VSRALQHDLSDVVQGEGCKRGLEITAAAGGNHLLLIGPPGTGKTMLASRLINGL	234
NTDB id	1153	A1552VC RS00115 WP	000521788.1	LEEVCADILCGQQTLSLFQSSPSV...	QQVSQTRDLQDIIIGQQQCKRALETIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id	1397	DSB67 RS15690 WP	005535577.1	LEEVCAEFLCGQHGLNLYQTPKKK...	ELKAHGRLQDIIIGQQQCKRALETIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id	1349	HI 1117 AAC22771.1		LLDVVFQFLNGQEKLPLATEIVKESAVNFSGKNTL	DLDIIDIIGQQHAKRALETIAAQGHNLLFLGPPGTGKTMLASRLTGL	239
NTDB id	1387	A4U84 RS06900 WP	020457569.1	LLGVVNFLNNRDQLPIAQQLSQNIAEN.RPLVSR	DLDIIDIIGQQHAKRALETIAASGQNHLFLGPPGTGKTMLASRLADLL	238
consensus				* * ? * *	! **** * ! * ? ** * ** * ! * ! *** * ? ! ! ! * ! * ! * ! *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	LREPLESGEIIISRAAKIIFPAFQLYAAMNPSPTC	397
NTDB id 1271 LPP RS03220 WP 011213198.1	MRQPLEDRVITISRAKFTVNYPASFMLVASMNPSPSGFFPDDPNNT.SSSFEMQRYLNKLSGPLLDRIDITHIEVQKVVEFD	394
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 1051985 ACE1E5 RS26055 WP 001691079.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	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	LRQPLESGEIIISRAQKTRFPAFQIVGALNPSPSGYYEGNQA..RTNPQAAILRYLGRLSGPLLDRFDMSTIEIPALPKG	396
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LRQPLESGEIIISRAQKTRFPAFQIVGALNPSPSGYYEGNQA..RTNPQAAILRYLGRLSGPLLDRFDMSTIEIPALPKG	395
consensus	*!***** *!* ** *!*!*****!!*! * ** * ** *!!!! *!!!!*!!!!*!!!!***** ** *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	Q L S D . . K R K G E S S E I T R Q R V L K A R E I Q Q E R Y Q D L A I S Y N A Q M G P K E I E H F C E L D E V S L L L I K N A M E K L N L S A R A Y D R I L K	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 1051985 ACE1E5 RS26055 WP 001691079.1	ILSKT.VVPGESSTTVKQRVMAARERQFKRQNK...LNAWLDSPKIRKFCLESEDAQWLEETLIHLGLSTRAWQRLIK	466
NTDB id 1153 A1552VC RS00115 WP 000521788.1	TLANG.GDRGESTAAVRQRVWVARERMLARSGK...VNALLQSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIIK	467
NTDB id 1397 DSB67 RS15690 WP 005535577.1	TLSEG.GDRGEPTAIVKERVNQARDCMLARSGK...VNALLQSREIEAFCLPQKSDAEFLENALHRLGLSIRAYHRIIK	467
NTDB id 1349 HI 1117 AAC22771.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAGK...INAYLNSKEIERDCCKLNDKDAFFLEKALNKLGLSVRAYHRILK	471
NTDB id 1387 A4U84 RS06900 WP 020457569.1	ALQNNTDQRGETTEQARKRVLEARHLQFNRRGK...INAQLTKEIEQDCCKLTDRDALFLENALTKLGLSVRAYHRILK	471
consensus	! **** * * * ! * * * * * ! * * * ! * * * * * ! ! * * * * * ! ! * * * * * * * ! * ! * ! * ! * ! * ! * ! * !	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	VSRTIADLERETNIQSHHIAEAIQYRSIDRDFWKV.....	510
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQAISYKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQAISYKQNLHLPK.....	503
NTDB id 1051985 ACE1E5 RS26055 WP 001691079.1	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	VSRTIADLQGEQIFQPHLAEALGYRAMVRLKQLSNM..	509
NTDB id 1387 A4U84 RS06900 WP 020457569.1	VSRTIADLAGEAQIQPHLAEALGYRAMDRLLQRLQGES.	510
consensus	! * ! ! ! ! ! * * * ! * * ! * * * * * *	

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