

NTDB id	1323 RAOC RS07335 WP	004916218.1	.MLVKKYVGSAIHGVSAQTITLIEVNVDQGV.GYHLVLGLPDNALIKESSHRISAAIKNVGYKLPCKKITINMAPADLRKEGSA	78
NTDB id	1271 LPP RS03220 WP	011213198.1	MSLAFTKRSTIGTIVAPQVSVEVHLSNGLPSFTMVGLAETAVKESKDVRVSAIINSQFEFPCRKITVNLGPANLPKTGS	80
NTDB id	1248 GC085 RS03150 WP	011213198.1	MSLAFTKTRSTIGTIVAPQVSVEVHLSNGLPSFTMVGLAETAVKESKDVRVSAIINSQFEFPCRKITVNLGPANLPKTGS	80
NTDB id	1106537 ACN4IO RS25510 WP	019078449.1	MSLISTVHTRAALGVNAPAITEVHTSNGLPCLTMVGLPETVKEARDRVRSAINSGYEFPFAKKITINLAPADLPKEGG	80
NTDB id	1153 A1552VC RS00115 WP	000521788.1	MGLAIITHSRASIGVQAAPPVTVEVHISNGMPGFLLVGLPETTVKESRDVRVSAIINSRFEFPAKRITVNLAPADLPKEGG	80
NTDB id	1397 DSB67 RS15690 WP	005535577.1	MGLAIITHSRASVGVQAAPSVEVHISNGMPGFLLVGLPETTVKESKDVRVSAIVNSIFQFPAKRITVNLAPADLPKEGG	80
NTDB id	1349 HI 1117 AAC22771.1		MSLAIVYSRASMGVQAAPLVTEVHLSNGKPGFLLVGLPEKTVKEAQDVRVRSALMNAQFKYPAKRITVNLAPADLPKEGG	80
NTDB id	1387 A4U84 RS06900 WP	020457569.1	MSLAIVYSRASIGVEAPLVTEVHISGSPGLTLVLGLPEKS VKEAQQDVRVRSALMNANFDYPARRITINLAPADLPKEGG	80
consensus			* * ! * * * * * * * * ! * ! * * * * ! ! * * * * ! * ! * * * * ! ! * ! * * * ! * ! * * * ! * ! * * *	

NTDB id 1323	RAOC RS07335 WP 004916218.1	YDLSTALGILAASGQIIAPEIERVYLIMGELSLDGGLQPIKGVLPPIATRAREEGFGKGIILPKQNTREAAIVNDLEVYGVEN	158
NTDB id 1271	LPP RS03220 WP 011213198.1	FDLPIALGILAASEQIPLTNLANHEFIGELALSSELRGVSAIIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVF	159
NTDB id 1248	GC085 RS03150 WP 011213198.1	FDLPIALGILAASEQIPLTNLANHEFIGELALSSELRGVSAIIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVF	159
NTDB id 1106537	ACN4I0 RS25510 WP 019078449.1	YDLPIAAVALAASEQITPHNLDITYELVUGELALTCALRGVPCATISSATEAIRA.QRRITIVAKENAEVGLTHGEGCL	159
NTDB id 1153	A1552VC RS00115 WP 000521788.1	FDLPIALGILAASDQIARNKLESYEFIGELALSSEIRGVKGVLPAAALANQV.ERCLVVPHSNGDQAALVGVERHKS	159
NTDB id 1397	DSB67 RS15690 WP 005535577.1	FDLPIALGILAASEQIATDKLKNYEFVUGELALSGGLRTIVKGVLPAAALANQV.QRHLVVPHSNGDQAALVGKEQ	159
NTDB id 1349	HI 1117 AAC22771.1	FDLPIATGILAASDQIDASHLKQFEFVAELALTGQLRGVHGVIPALAAQKS.KRELIIAKQNANAEVLS	159
NTDB id 1387	A4U84 RS06900 WP 020457569.1	FDLPIAIGILAASQIDSDSKLKRIEELGELSLTGHLRGVHGAIPAVLAAASKA.KREITIVPQQNANAEVLS	159
consensus		*!!*!!**!!!!*!* * *!!**!!*!!*!!**!!**!!*!!**!!**!!*!!**!!**!!*!!**!!**!!*!!**!!	

NTDB id	1323	RAOC RS07335 WP 004916218.1	IKEVIDFFNENCPLEPTKVNTREEFHKRVNLFPFDFSEVKGGQETAKRAMEVAAGGHNHLLIGPPGSGKTMIAKRIPSL	238
NTDB id	1271	LPP RS03220 WP 011213198.1	IREVCDYLCCGTSLQLSPKKPDL...LLNNYELDWSDIKGQQHAKNAMVIAACGGHSILLSCAPGSGKTMAKRFSTLL	235
NTDB id	1248	GC085 RS03150 WP 011213198.1	IREVCDYLCCGTSLQLSPKKPDL...LLNNYELDWSDIKGQQHAKNAMVIAACGGHSILLSCAPGSGKTMMARFSTLL	235
NTDB id	1106537	ACN4I0 RS25510 WP 019078449.1	LQTVCAFLLEGKHDLDRPSSAD...FTPNALADLSDVIGQEQRGLEITAAAGHNHLILGPPGTGKTMLASRLRGLL	234
NTDB id	1153	A1552VC RS00115 WP 000521788.1	LLEVCAIDLCCGQQTSLFQSSPSV...QQVSQTRDLQDIIGQQQGKRALEIAAAGNHNLFLGPPGTGKTMLASRLCDLL	235
NTDB id	1397	DSB67 RS15690 WP 005535577.1	LLEVCAELCGQHGLNLYQTPKKK...ELKAHGRDLQDIIGQQQGKRALEIAAAGNHNLFLGPPGTGKTMLASRLCDLL	235
NTDB id	1349	HI 1117 AAC22771.1	LLDVVQFLNGQEKLPLATEIVKESAVNFSGKNLTLTDIIIGQQHAKRALTIAAQGHNLFLGPPGTGKTMLASRLTGL	239
NTDB id	1387	A4U84 RS06900 WP 020457569.1	LLGVVNFLNNRDQLPIAQQLSQNIAEN.RPLVSRDLTDIIIGQQHAKRALTIAASGQHNLFLGPPGTGKTMLASRLALL	238
consensus			* * ! * * * * ! * * ! * * * * * * ! * ! * * * * ! * * * * ! * * * * ! * * * * ! *	

NTDB id	1323	RAOC RS07335 WP	004916218.1	PPLTLKEALETTHSVAGKMGAETSLMTIRPFRSPHHTISDV	ALVGGGSYPQGEISLAHNGLFLDEMPFEKRTVLVE	318
NTDB id	1271	LPP RS03220 WP	011213198.1	PELSETQAIECAAINSTRGKLPDF.REWRLPPFRAPHHTASPV	ALVGGGNPKPGEISLAHNGVLFLDELPEFNRRQVLE	314
NTDB id	1248	GC085 RS03150 WP	011213198.1	PELSETQAIECAAINSTRGKLPDF.REWRLPPFRAPHHTASPV	ALVGGGNPKPGEISLAHNGVLFLDELPEFNRRQVLE	314
NTDB id	1106537	ACN4I0 RS25510 WP	019078449.1	PPPSNDEAEESAAITLSLIHSDTIQ.KWKQRPFSPHHSASLV	MVGGSIPAPGEISLAHNGLFLDELPEFERRTLDA	313
NTDB id	1153	A1552VC RS00115 WP	000521788.1	PEMSDEEAMETASIASLTQQEINQ.HNWKLRPFRAPHHSSMA	ALVGGGTIPRPGGEISLAHNGLFLDEMPFEKERKVLD	314
NTDB id	1397	DSB67 RS15690 WP	005535577.1	PEMSDEEAMETASVASLTQSSEINE.HNWKTRPFRAPHHSSMA	ALVGGGSVP RPGEISLAHNGLFLDEMPFEDRKVLD	314
NTDB id	1349	HI 1117 AAC22771.1		PEMTDLEAETASVTSLSVQNELNF.HNWKQRPFRAPHHSAMP	ALVGGGTIPKPGEISLATNGVLFLDELPEFERKVLD	318
NTDB id	1387	A4U84 RS06900 WP	020457569.1	PEMEDDEAETASVTSLSVQNELNF.QNWKKRPFSPHHSASLV	VGVGGGSIPKPGEISLAHNGLFLDELPEFERKVLD	317
consensus				!*** * !*!* * !*	* **** * !*!* !!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	LREPLESGEIIISRAAKIIFPAFQLYAAMNPSPTCGYGSONRTTPQRIIRYLNRLSGPIIDREFDMSIEIPALPQG	397
NTDB id 1271 LPP RS03220 WP 011213198.1	MRQPLEDRVETISRAKFTVNYPASFMLVASMNPSPSGFFPDDPNNT.SSSFEMQRYLNKLSGPLLDRIDITHIEVQKVVEFD	394
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 1106537 ACN4IO RS25510 WP 019078449.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	391
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LREPLESGEIVISRAQKTRFPAFQFQVGAALNPSPGTGYEGSSQA..RANPQSILRYLSRLSGPLLDRFDMSTIEIPALPKG	392
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LREPLESGEIIISRAQKTRFPAFQFQVGAALNPSPGTGYEGNQA..RTNPQAAILRYLGRLSGPLLDRFDMSTIEIPALPKG	392
NTDB id 1349 HI 1117 AAC22771.1	LRQPLESGEIIISRAQKTRFPAFQFQVGAALNPSPGTGYEGNQA..RTNPQAAILRYLGRLSGPLLDRFDMSTIEIPALPKG	396
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LRQPLESGEIIISRAQKTRFPAFQFQVGAALNPSPGTGYEGNQA..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	ELIKPNTHLEKQSLAIREKVTVMHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKIKLSARGYHRLIK	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTVMHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKIKLSARGYHRLIK	470
NTDB id 1106537 ACN4IO RS25510 WP 019078449.1	ILSQN.AMKGENSATVKKQVMAARERQYQRQNK...LNAHLDSQDIHKYCLLRSDAQWLEETLAHLGLSTRAWLRLLIK	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	VSRTIADMNSSKKVLLNHLQQAISYKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQAISYKQNLHLPK.....	503
NTDB id 1106537 ACN4IO RS25510 WP 019078449.1	VARTIADIEQCDHISRQHLQEAVGYRAIDRLLIHLLQKLLT	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	VSRTIADLAGEAQIQPPHLAEALGYRAMDRLLQRLQGES.	510
consensus	! * ! ! ! ! ! * * * * ! * * * * * * * * * * *	

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