

NTDB id	1323	RAOC RS07335 WP	004916218.1	.MLVVKVYGS	AIHGVS	AQTTITIEVNVDQGV	.GYHLVLGLPDNATIKESSHRISAAAKNVGGYKLP	GKKKITINMAPADLRKEGSA	78
NTDB id	1271	LPP RS03220 WP	011213198.1	MSLAFTKTRSTIGTIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG	80				
NTDB id	1248	GC085 RS03150 WP	011213198.1	MSLAFTKTRSTIGTIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG	80				
NTDB id	1032936	ABW822 RS02555 WP	007780013.1	MSLSVIHTRAALGVKAPLVTEVHISTGLPCLITVLGLPETTVKEARDVRVSALINSGYEFPFAKKITINLAPADLPKEGGR	80				
NTDB id	1397	DSB67 RS15690 WP	005535577.1	MGLAIITHSRASVGVQAAPSVSVEVHLSNGMPGFTTLVGLPETTVKESKDRVRSAIVNSNFQFPFAKRITVNLAPADLPKEGGR	80				
NTDB id	1153	A1552VC RS00115 WP	000521788.1	MGLAIITHSRASIGVQAAPPVTVEVHLSNGMPGFTTLVGLPETTVKESRDRVRSAIINSRFEPFAKRITVNLAPADLPKEGGR	80				
NTDB id	1349	HI 1117 AAC22771.1		MSLAIVYSRASMGVQAPLVTIEVHLSNGKPFGFTTLVGLPEKTVKEAQDRVRSALMNAQFKYPAKRITVNLAPADLPKEGGR	80				
NTDB id	1387	A4U84 RS06900 WP	020457569.1	MSLAIIYSRASIGVQAPLVTIEVHLSNGSPGLITLVGLPEKS VKEAQDRVRSA LMNA NFDYPARRITINLAPADLPKEGGR	80				
consensus				* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	

NTDB id	1323	RAOC RS07335 WP 004916218.1	YDLSTAIGILAASGQIIAPEIERVYLIMGELSLDGGGLQPIKGVLPPIATRAREEGFGKIILPKQNRTREAAIVNDLEVVGVEN	158
NTDB id	1271	LPP RS03220 WP 011213198.1	FDPALPILGILAASEQIPLTNLANHEFIGELALSSELRGVSATIPAVLAAHK.DNQHLIIANANAEEASLTGHQKVFTANN	159
NTDB id	1248	GC085 RS03150 WP 011213198.1	FDPALPILGILAASEQIPLTNLANHEFIGELALSSELRGVSATIPAVLAAHK.DNQHLIIANANAEEASLTGHQKVFTANN	159
NTDB id	1032936	ABW822 RS02555 WP 007780013.1	YDLPPIAIALAASEEQISASHLGEYEFVVGELALTGALRGVPGAIPTAAIEALG.CKRKIIVAHNDNGPEVGLINHGECGLVAHH	159
NTDB id	1397	DSB67 RS15690 WP 005535577.1	FDPALPILGILAASEQIATDKLKNYEYFVGELALSGGLRITVKGVLPAAALAANK.KQRHLLVVPHANGDQAALVGKEQHKSAAQS	159
NTDB id	1153	A1552VC RS00115 WP 000521788.1	FDPALPILGILAASDQIARNKLESYEFIGELALTSELRGVKGVLPAALAANK.VERCLVVPHSNCDQAALVGVERHKSAAQS	159
NTDB id	1349	HI 1117 AAC22771.1	FDPPIAIGILAASDQLDASHLKFEEFVAELALTGQLRGVHGVIPIALAAQK.SKRELIIAKQNAANEASLVSDQNTYFAQT	159
NTDB id	1387	A4U84 RS06900 WP 020457569.1	FDPPIAIGILAASQQLDSDKLKRIFELLGELSITGHLRGVHGAIPIAVLAASK.AKREIIVPQQNAANEASLVSNVTQTYCAST	159
consensus			*!!*!!**!!!!!!*!* * !!***!!*! !*! !**** **!!* * !!*** !!***!!* !!**	

NTDB id	1323	RAOC RS07335 WP	004916218.1	IKEVIDFFNENCPLEPTKVNTREEFHKRVNLFPFDFSEVKGGQETAKRAMEVAAGGHNHLLIGPPGSGKTMLAKRIPSL	238
NTDB id	1271	LPP RS03220 WP	011213198.1	IREVCDYLCCGTSLQLSPKPDL...LLNNYELDWSDIKGQQHAKNAMVIAACGGHSILLSCAPCSGKTMMAKRFSTLL	235
NTDB id	1248	GC085 RS03150 WP	011213198.1	IREVCDYLCCGTSLQLSPKPDL...LLNNYELDWSDIKGQQHAKNAMVIAACGGHSILLSCAPCSGKTMMAKRFSTLL	235
NTDB id	1032936	ABW8W22 RS02555 WP	007780013.1	LQEVCALLEGKTOLECAEPSDFE....FKEPAGDLSEVIGQPCKRALETAAAGHNHLFLGPPGTGKTMLATRLNGLL	234
NTDB id	1397	DSB67 RS15690 WP	005535577.1	LLEVCAELCGQHQLNLYQTTPKKK...ELKAHGRDLQDIIGQQQGKRALETAAAGHNHLFLGPPGTGKTMLASRLCDLL	235
NTDB id	1153	A1552VC RS00115 WP	000521788.1	LLEVCAELCGQHQLNLYQTTPKKK...ELKAHGRDLQDIIGQQQGKRALETAAAGHNHLFLGPPGTGKTMLASRLCDLL	235
NTDB id	1349	HI 1117 AAC22771.1		LLDVVQFLNGQEKPLATEIVKESAVNFSGKNLTLDTIIGQQGHAKRALTIAAAGQHNLFLGPPGTGKTMLASRLTGLL	239
NTDB id	1387	A4U84 RS06900 WP	020457569.1	LLQVVNFIENNRDQLPIAQQLSQNIAEN.RPLVSRDLTDIIGQQGHAKRALTIAAAGQHNLFLGPPGTGKTMLASRLADLL	238
consensus				* * ! * * * *	! **** * ! * * ! * ! * * ! * ! * ! * ! * ! * ! * ! * ! * ! * ! *

NTDB id	1323	RAOC RS07335 WP 004916218.1	PPLTLKEAEETTKTHSVAGKMGAETSMTIRPFRSPHHTISDVVALVGGGSYPQGEISLAHNGLVFLDLMPEFKRTIVLEV	318
NTDB id	1271	LPP RS03220 WP 011213198.1	PELSETQAIECAAINSTRGKLPDF.REWRILPPFRAPHHTASPVVALVGGGNPPKPGEISLAHHGVLFDELPEFNRQVLETF	314
NTDB id	1248	GC085 RS03150 WP 011213198.1	PELSEITQAIECAAINSTRGKLPDF.REWRILPPFRAPHHTASPVVALVGGGNPPKPGEISLAHHGVLFDELPEFNRQVLETF	314
NTDB id	1032936	ABW8W22 RS02555 WP 007780013.1	PPPSDQEAEESAAITLSLVNPSVLH.HQWRQLRPFRAPPHSSASLNAMVGGAIPAPGEISLAHNGLVFLDELPEFERRVLDA	313
NTDB id	1397	DSB67 RS15690 WP 005535577.1	PEMSDEEAMETASVASLTQSEINE.HNWKTTRPFRAPHHSSSMAALVGGGSVP RPGEISLAHNGLLFLDLMPEFDKRVLDSS	314
NTDB id	1153	A1552VC RS00115 WP 000521788.1	PEMSDEEAMETASIASLTQEQINQ.HNWKL RPFRAPHHSSSMAALVGGGTIP RPGEISLAHNGLLFLDLMPEFERKVLDS	314
NTDB id	1349	HI 1117 AAC22771.1	PEMTDL EATETASVTSLVNELNF.HNWKKRPFPRAPHHSASMPALVGGGTIP KPGEISLATNGVLFDELPEFERKVLDA	318
NTDB id	1387	A4U84 RS06900 WP 020457569.1	PEMEDDEAETASVTSLVNELNF.QNVKKRPFPRSPHHSASMVVALVGGGSIPKPGEISLAHNGLVFLDELPEFERKVLDA	317
consensus			! * * * * * ! * ! * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	LREPLESGEIIISRAAKVFPAFQLYAAMNPSPTCGYGQNR	397
NTDB id 1271 LPP RS03220 WP 011213198.1	MRQPLEDRVETISRAKFTVNYPASFMLVASMNPSPSGFFPDDPNNT.SSSFEMQRYLNLKLSGPLLDRIDITHIEVQKVVEFD	394
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 1032936 AB8W22 RS02555 WP 007780013.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	391
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LREPESGQIHLSRTRAKLTYPARFQLIAAMNPSPTGHYKGNHNR..CSPEQTLRYLGRLSGPFLLDRFDISLEIPLPPPG	392
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LREPLESGEIIISRAQKTRFPARFQIVGALNPSPTGYYEGNQAR..TNPQATLRYLGRLSGPLLDRFDMSLEIPALPKG	392
NTDB id 1349 HI 1117 AAC22771.1	LREPLESGEIVISRAQKTRFPARFQIVGALNPSPTGYYEGSSQAR..ANPQSILRYLSRLSGPLLDRFDMSIEIPALPKG	396
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LRQPLESGEIIISRANAKIQFPAFQLYAAMNPSPTGHYTGTHNR..TSPQQIMRYLNLRLSGPFLLDRFDLSIEVPLLPQG	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...LNANLNSKTCCEMVCELGSEEQLFLREVMSKCLKLSARGYHRLK	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKCLKLSARGYHRLK	470
NTDB id 1032936 AB8W22 RS02555 WP 007780013.1	MLSQV.GQSGESSAQVRKRVMESRECQFARQCK...LNAMLDNGEIRQFCVLSPEDAQWLEAALIKLGLSVRAWQRLLK	466
NTDB id 1397 DSB67 RS15690 WP 005535577.1	TLSEG.GDRGEPTAIVKERVNQARDCLARSGK...VNALLGSREIEAFCPQLKSDAEFLENALHRLGLSIRAYHRIK	467
NTDB id 1153 A1552VC RS00115 WP 000521788.1	TLANG.GDRGESTAAVRQRVWVARERMLARSGK...VNALLQSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIK	467
NTDB id 1349 HI 1117 AAC22771.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAGK...INAYLNSKEIERDCKLNDKDAFFLEKALNKLGLSVRAYHRILK	471
NTDB id 1387 A4U84 RS06900 WP 020457569.1	ALQNNTDQRGETTEQARKRVLEARHQLQFNRRGK...INAQLTKEIEQDCKLTDRDALFLENALTKLGLSVRAYHRILK	471
consensus	! **** * * *! *****! ** *!! * ***** !! ** *** * *! *! *! *! *! *! *! *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	VSRTIADLERETNIQSHHIAEAIQYRSLDRDFWKV.....	510
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1032936 AB8W22 RS02555 WP 007780013.1	VARTIADCEQSQRIGRKHLQEALSYRAIDRMIAHLQNMMA	506
NTDB id 1397 DSB67 RS15690 WP 005535577.1	VARTIADLEGSPQIERTHLAEALGYRAMDRLLKQLTAQAV	507
NTDB id 1153 A1552VC RS00115 WP 000521788.1	VARTIADLQGEAQIARPHLAEALGYRAMDRLLKQLSAQNV	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