

[illegible]

NTDB id	1323	RAOC RS07335 WP 004916218.1	YDLSTALGILAASGGTIIAPEIERVYLIMGELSLDGGGLQPIKGVLPPIATRAREEGFGKITLTPKQNTREAAIVNDLEVYGVEN	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	1040504	ACDI40 RS05735 WP 002883134.1	YDLPILAIIVASEQLNITTRNLNQYEFVGELALTGGLRGVPGAIPSAEAIIKA.GRRILVVSSDNAAEVLIGSGDCLVADH	159
NTDB id	1397	DSB67 RS15690 WP 005535577.1	FDPILPALGILAASEQIATDKLKNYEFVGELALSGGLRVTVKGVLPAAALAANKK.QRHLLVPHANGDQAALVGKEQHKSAQS	159
NTDB id	1153	A1552VC RS00115 WP 000521788.1	FDPILPALGILAASDQIARNKLSEYEFIGELALTSELRGVKGVLPAALAANKV.ERCLVPHNSCDQAALVGVERHKSAQS	159
NTDB id	1349	HI 1117 AAC22771.1	FDPILPAILGILAASDQLDASHLKQFEFVAELALTGGLRGVHGVIPIALAAQKS.KRELTIKQNANEASLVSDQNTYFAQT	159
NTDB id	1387	A4U84 RS06900 WP 020457569.1	FDPILPALGILAASQQIDSDKLKRIELLGELSITGHLRGVHGAIIPAVLAASKA.KREITIVPQQNANEASLVSNLTQTYCAST	159
consensus			*!!*!!**!*!!*!*	* * * * *

NTDB id	1323	RAOC RS07335 WP	004916218.1	IKEVIDFFNECPLEPTKVNTRREEFHKRVLNLPFPDFSEVKGGQETAKRAMEVAAGGHNHLLILGPPGSGKTMLAKRIPSL	238
NTDB id	1271	LPP RS03220 WP	011213198.1	IREVCDYLCCGTSLQLSPKKPDL...LLNNYELDWSIDIKGQQHAKNAMVIAACGGHSILLSCAPCSGKTMMAKRFSTLL	235
NTDB id	1248	GCO85 RS03150 WP	011213198.1	IREVCDYLCCGTSLQLSPKKPDL...LLNNYELDWSIDIKGQQHAKNAMVIAACGGHSILLSCAPCSGKTMMAKRFSTLL	235
NTDB id	1040504	ACDI40 RS05735 WP	002883134.1	LQEVCALFAGTISLSPPLAEA....PARDERYEDLLDVIGQQQCKRALEIVAAAGGNHNLILGPPGTGKTMLASRLPGLL	234
NTDB id	1397	DSB67 RS15690 WP	005535577.1	LLEVCAELCGQHQLNLYQTTPKKK...ELKAHGRDLLQDIIGQQQCKRALEIAAAGNHNLFLFGPPGTGKTMLASRLCDLL	235
NTDB id	1153	A1552VC RS00115 WP	000521788.1	LLEVCAELCGQHQLNLYQTTPKKK...ELKAHGRDLLQDIIGQQQCKRALEIAAAGNHNLFLFGPPGTGKTMLASRLCDLL	235
NTDB id	1349	HI 1117 AAC22771.1		LLDVVQFLNGQEKPLATEIVKESAVNFSGKNITLDITDIIGQQHAKRALTIAAAGQHNLFLFGPPGTGKTMLASRLTGLL	239
NTDB id	1387	A4U84 RS06900 WP	020457569.1	LLQVVNFIENNRDKPIAQQLSQNIAEN.RPLVSRDITDIIGQQHAKRALTIAAAGQHNLFLFGPPGTGKTMLASRLADLL	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 1040504 ACDI40 RS05735 WP 002883134.1	LREPIESGKIHSISRAKIDYPARFQLIAAMNPSPSGHYQKGKHNRL..ASPEQTLRYLGRLSGPFLLDRFDLSLEIPLPPPG	391
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LREPLESGEIIISRAQKTRFPAFQIVGALNPSPSGYEGNQAR..TNPQATILRYLGRLSGPLLDRFDMSLEIPALPKG	392
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LREPLESGEIVISRAQKTRFPAFQIVGALNPSPSGYEGSSQAR..ANPQSILRYLSRLSGPLLDRFDMSIEIPALPKG	392
NTDB id 1349 HI 1117 AAC22771.1	LRQPLESGEIIISRAANAKIQFPAFQLYAAMNPSPSGHYTGTHNR..TSPQQIMRYLNRLSGPFLLDRFDLSIEVPLLPQG	396
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LRQPLESGEIIISRAANAKVFPACFQLIAAMNPSPSGHYQGTHNR..TSPQQLMRYLNRLSGPFLLDRFDLSIEVPLLPQG	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 I 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 I T 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	E L I K P N T H L E K Q S L A I R E K V T K M H E I Q M A R Q D S L N A N L N S K T C E M V C E L G S E E Q L F L R E V M S K L K L S A R G Y H R L L K	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	E L I K P N T H L E K Q S L A I R E K V T K M H E I Q M A R Q D S L N A N L N S K T C E M V C E L G S E E Q L F L R E V M S K L K L S A R G Y H R L L K	470
NTDB id 1040504 ACDI40 RS05735 WP 002883134.1	I L S Q G . S Q G E S S A T V R Q R V L A A R E R Q M L R Q N K L N A H L E N R E M K N C C R L R R E D A V W L E Q T L T Q L G L S T R A W Q R L L K	466
NTDB id 1397 DSB67 RS15690 WP 005535577.1	T L S E G . G D R G E P T A I V K E R V N Q A R D C M L A R S G K V N A L L G S R E I E A F C P L Q K S D A E F L E N A L H R L G L S I R A Y H R I I K	467
NTDB id 1153 A1552VC RS00115 WP 000521788.1	T L A N G . G D R G E S T A A V R Q R V W V A R E R M L A R S G K V N A L L Q S R E I E Q Y C P L L K A D A E F L E S A L H R L G L S I R A Y H R I I K	467
NTDB id 1349 HI 1117 AAC22771.1	S L Q N T . G D R G E T S A Q V R E K V L K V R E I Q M E R A G K I N A Y L N S K E I E R D C K L N D K D A F F L E K A L N K L G L S V R A Y H R I L K	471
NTDB id 1387 A4U84 RS06900 WP 020457569.1	A L Q N N T D Q R G E T T E Q A R K R V L E A R H L Q F N R R G K I N A Q L T T K E I E Q D C K L T D R D A L F L E N A L T K L G L S V R A Y H R I L K	471
consensus	! **** * * ! * * * * * ! *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	VSRTIADLERETNIQSHHIAEAIQYRSILDRDFWKV.....	510
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1040504 ACDI40 RS05735 WP 002883134.1	VARTIADLAEVEETIERCHLQEALSYRAIDRMLNHLQKMMA	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	VSRTIADLQGEQIQIFPHLAEALGYRAMVRLLQKLSNM..	509
NTDB id 1387 A4U84 RS06900 WP 020457569.1	VSRTIADLAGEAQIQPPHLAEALGYRAMDRLLQRLQGES.	510
consensus	!***** ** !***! * !***** *	

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