

NTDB id	1323	RAOC RS07335 WP	004916218.1	.MLVKKVYGS A IHHGVS A QTTITTEVNVDQGV.GYHLVLGLPDNATIKESSHRISAAIKNVGYKLPGKKITINMAPADLRKEGSA	78
NTDB id	1271	LPP RS03220 WP	011213198.1	MSLAFTKTRSTIGTIVAQQPVSEVHLSNGLPSTFMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG	80
NTDB id	1248	GC085 RS03150 WP	011213198.1	MSLAFTKTRSTIGTIVAQQPVSEVHLSNGLPSTFMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG	80
NTDB id	135764	SEEN538 RS24110 WP	000050225.1	MSLAITHRRALGVNAAPPITITEVHTSINGLPCLTMVGLPETVKEARDVRSAIINSGYEFPFAKKITINLAPADLPKEGGGR	80
NTDB id	1153	A1552VC RS00115 WP	000521788.1	MGLAIITHSRASIGVQAAPPVTVEVHISNGMPGFTTLVGLPETTVKESRDRVRSAIINSRFEPFAKRITVNLAPADLPKEGGGR	80
NTDB id	1397	DSB67 RS15690 WP	005535577.1	MGLAIITHSRASVGVAQPSVSEVHLSNGMPGFTTLVGLPETTVKESKDRVRSAIVNSNFQFPFAKRITVNLAPADLPKEGGGR	80
NTDB id	1349	HI 1117 AAC22771.1		MSLAIVYSRASMGVQAAPLVITEVHLSNGKPGETTLVGLPEKTVKEAQDVRVSALMNAQFKYPAKRITVNLAPADLPKEGGGR	80
NTDB id	1387	A4U84 RS06900 WP	020457569.1	MSLAIIYSRASIGVEAPLVITEVHTSGSPGLTMLVGLPEKSVKEAQDVRVSALMNANFDYPARRITINLAPADLPKEGGGR	80
consensus				* * ! * * * * ! * ! * * * * ! ! * * * * ! * ! * * * * ! ! * * * * ! ! * * ! * * * ! * ! * * ! * ! * *	

NTDB id 1323	RAOC RS07335 WP 004916218.1	YDL	ST	AI	G	I	L	A	A	S	G	Q	I	A	P	E	T	E	R	V	L	I	M	G	E	L	S	D	G	G	L	Q	P	I	K	G	V	L	P	I	A	T	R	A	R	E	E	G	F	K	G	I	I	L	P	K	Q	N	T	R	E	A	A	I	V	N	D	L	E	V	Y	G	V	E	N	158					
NTDB id 1271	LPP RS03220 WP 011213198.1	F	D	L	P	I	A	L	G	I	L	A	A	S	E	Q	I	P	L	T	N	L	A	N	H	E	F	I	G	E	L	A	L	S	G	E	L	R	G	V	S	A	I	P	A	V	L	A	A	H	K	D	.	N	Q	H	L	I	I	A	N	A	N	A	A	E	A	S	L	T	G	H	Q	K	V	F	T	A	N	159	
NTDB id 1248	GC085 RS03150 WP 011213198.1	F	D	L	P	I	A	L	G	I	L	A	A	S	E	Q	I	P	L	T	N	L	A	N	H	E	F	I	G	E	L	A	L	S	G	E	L	R	G	V	S	A	I	P	A	V	L	A	A	H	K	D	.	N	Q	H	L	I	I	A	N	A	N	A	A	E	A	S	L	T	G	H	Q	K	V	F	T	A	N	159	
NTDB id 135764	SEEN538 RS24110 WP 000050225.1	Y	D	L	P	I	A	V	A	L	A	A	S	E	Q	T	E	S	N	E	A	E	V	L	G	E	L	A	T	C	A	L	R	G	V	P	C	A	I	S	S	A	T	E	A	I	R	A	.	R	N	I	T	I	V	A	T	E	N	A	E	V	G	L	I	S	G	E	C	F	I	A	D	H	159						
NTDB id 1153	A1552VC RS00115 WP 000521788.1	F	D	L	P	I	A	L	G	I	L	A	A	S	D	Q	I	A	R	N	K	L	E	S	V	E	F	I	G	E	L	A	L	S	G	E	T	R	G	V	K	G	V	L	P	A	A	L	A	N	Q	V	.	E	R	C	L	V	V	P	H	S	N	G	D	Q	A	A	L	V	G	V	E	R	H	K	S	A	Q	S	159
NTDB id 1397	DSB67 RS15690 WP 005535577.1	F	D	L	P	I	A	L	G	I	L	A	A	S	E	Q	I	A	T	D	K	L	K	N	Y	E	F	V	G	E	L	A	L	S	G	G	L	T	R	V	K	G	V	L	P	A	A	L	A	N	K	K	.	Q	R	H	L	V	V	P	H	A	N	G	D	Q	A	A	L	V	G	K	E	Q	H	K	S	A	Q	S	159
NTDB id 1349	HI 1117 AAC22771.1	F	D	L	P	I	A	L	G	I	L	A	A	S	D	Q	I	D	A	S	H	L	K	Q	F	E	F	V	A	E	L	A	L	T	G	Q	L	R	G	V	H	G	V	I	P	A	L	A	A	K	S	.	K	R	E	L	I	I	A	K	N	A	N	E	S	L	V	S	D	Q	N	T	Y	F	A	Q	T	159			
NTDB id 1387	A4U84 RS06900 WP 020457569.1	F	D	L	P	I	A	L	G	I	L	A	A	S	Q	I	D	S	D	K	L	K	R	I	E	L	L	G	E	L	S	L	T	G	H	L	R	G	V	H	G	A	I	P	A	V	L	A	A	S	K	A	.	K	R	E	I	T	V	P	Q	N	A	N	E	S															

NTDB id	1323	RAOC RS07335 WP	004916218.1	IKEVIDFFNENCPL	EPTKVNTREEFHKRVNLFPFDFSEVKGGQETAKRAMEVAAGGHNHLLIGPPGSGKTMLAKRIPSL	238
NTDB id	1271	LPP RS03220 WP	011213198.1	IREVCDYL	CQGTSLSQLPPPKPDL... LLNNYELDWSIDIKGQQHAKNAMVIAACGGHSILLSCAPGSGKTMMAKRFSTLL	235
NTDB id	1248	GC085 RS03150 WP	011213198.1	IREVCDYL	CQGTSLSQLPPPKPDL... LLNNYELDWSIDIKGQQHAKNAMVIAACGGHSILLSCAPGSGKTMMAKRFSTLL	235
NTDB id	135764	SEEN538 RS24110 WP	000050225.1	LQTVCAFL	EGKHALLERPLAQD... MASPTATADLRDVIGQEQRGLLEITAAAGGHNLLLIGPPGTGKTMLASRLSGL	234
NTDB id	1153	A1552VC RS00115 WP	000521788.1	LEEVCADL	CGQQTSLFQSSPSV... QQVSQTRDLQDIIGQQQCKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id	1397	DSB67 RS15690 WP	005535577.1	LEEVCADF	CGQHQLNLYQTPKKK... ELKAHGRLQDIIGQQQCKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id	1349	HI 1117 AAC22771.1		LLDVVFQFL	NGQEKLPLATEIVKESAVNFSGKNLTLTDIIGQQHAKRALTIAAAGQHNNLLFLGPPGTGKTMLASRLTGL	239
NTDB id	1387	A4U84 RS06900 WP	020457569.1	LLQVVNFL	NNRDQLPIAQQLSQNIAEN.RPLVSRDLTDIIGQQHAKRALTIAASGQHNNLLFLGPPGTGKTMLASRLDLL	238
consensus				* * ? * *	! * * * * ! * * * * * * * ! * * * * * * * ! * * * * * * * ! * * * * * * *	

[illegible]

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NTDB id 1323 RAOC RS07335 WP 004916218.1	LREPLESGEIIISRAAKIIFPAFQLYAAMNPSPTCGYGQONRITPQRIIRYLNRLSGPIIDREFDMSIEVPALPQG	397
NTDB id 1271 LPP RS03220 WP 011213198.1	MRQPLEDRVETISRAKFTVNYPASFMLVASMNPSPSGFFPDDPNNT.SSSFEMQRYLNKLSGPLLDRIDITHIEVQKVVEFD	394
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNISQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 135764 SEEN538 RS24110 WP 000050225.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNISQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	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	QLSD..KRKGESSEIRQRVLKAREIQQERYQDLAISYNAQMGPKEIEHFCELDVSLLLIKNAMEKLNLSARAYDRILK	475
NTDB id 1271 LPP RS03220 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKIKLSARGYHRLK	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKIKLSARGYHRLK	470
NTDB id 135764 SEEN538 RS24110 WP 000050225.1	ILSQH.ASKGESSATVKKRVIAAHERQYRRQKK...LNARLEGREIQKYCVLHHDARWLEDTLVHLGLSTRWQRLK	466
NTDB id 1153 A1552VC RS00115 WP 000521788.1	TLANG.GDRGESTAAVRQRVWVARERMLARSGK...VNALLQSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIK	467
NTDB id 1397 DSB67 RS15690 WP 005535577.1	TLSEG.GDRGEPTAIVKERVNQARDCMLARSGK...VNALLQSREIEAFCLPLQKSDAEFLENALHRLGLSIRAYHRIK	467
NTDB id 1349 HI 1117 AAC22771.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAGK...INAYLNSKEIERDCKLNDKDAFFLEKALNKLGLSVRAYHRILK	471
NTDB id 1387 A4U84 RS06900 WP 020457569.1	ALQNTDQRGETTEQARKRVLEARHLQFNRRGK...INAQLTKEIEQDCKLTDRDALFLENALTKLGLSVRAYHRILK	471
consensus	! ***** * *! ***** ! * *!! * ***** !! ** *** * *!*****!!*	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	VSRTIADLERETNIQSHHIAEAIQYRSIDRDFWKV.....	510
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQALSQKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQALSQKQNLHLPK.....	503
NTDB id 135764 SEEN538 RS24110 WP 000050225.1	VARTIADIELADQISRQHLQEAVSYRAIDRLLIHQLKLLA	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	!***** ** !**** * !***** *	

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