

NTDB id	1323 RAOC RS07335 WP 004916218.1	.MLVKKYVGSAIHGVSAQTITTEVNVDQGV.GYHLVLGLPDNALIKESSHRISAAIKNVGYKLPGKKKITINMAPADLRKEGSA	78
NTDB id	1271 LPP RS03220 WP 011213198.1	MSLAFTKTRSTIGTIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDVRVSAIINSQFEFPCRKITVNLGPANLPKTGGSG	80
NTDB id	1248 GC085 RS03150 WP 011213198.1	MSLAFTKTRSTIGTIVAQPVSVEVHLSNGLPSEFTMVGLAETAVKESKDVRVSAIINSQFEFPCRKITVNLGPANLPKTGGSG	80
NTDB id	1004982 ABI159 RS23980 WP 000058964.1	MSLSTVHTRAALGVNAAPPITVEVHISEKGLPCGLTMVGLPETVKEARDRVRSAINSGYEYPAKKITINLAPADLPKEGGR	80
NTDB id	1153 A1552VC RS00115 WP 000521788.1	MGLAIHSRASIGVQAAPPVTVEVHISNGMPGFTLVGLPETTVKESRDVRVSAIINSRFEPFAKRITVNLAPADLPKEGGR	80
NTDB id	1397 DSB67 RS15690 WP 005535577.1	MGLAIHSRASVGVQAPSVEVHLSNGMPGFTLVGLPETTVKESKDVRVSAIVNSNFQFPARKRITVNLAPADLPKEGGR	80
NTDB id	1349 HI 1117 AAC22771.1	MSLAIVYSRASMGVQAAPLVTIEVHLSNGKPGETTLVGLPEKTVKEAQDVRVRSALMNAQFKYPARKRITVNLAPADLPKEGGR	80
NTDB id	1387 A4U84 RS06900 WP 020457569.1	MSLAIIVSRASIGVEAPLVTIEVHISGGSPLGLTMLVGLPEKSVKAEAQDVRVRSALMNADFDPARRITINLAPADLPKEGGR	80
consensus		* * ! * * * * * * * ! * ! * * * * ! ! * * * * ! * ! * * * * ! ! * * * * ! ! * * ! * * * * ! * * ! * *	

NTDB id	1323	RAOC RS07335 WP	004916218.1	YDLSTAIGILAASGQIIAPEIERVYLIMGELSDDGGGLQPIKGVLPATIRAREEGFGKITIIPKQNTRAAALIVNDLEVYGVEN	158
NTDB id	1271	LPP RS03220 WP	011213198.1	FDPILPAILGILAASEQIPLTNLANHEFIGELALSSELGRGVSATIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1248	GCO85 RS03150 WP	011213198.1	FDPILPAILGILAASEQIPLTNLANHEFIGELALSSELGRGVSATIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1004982	ABI159 RS23980 WP	000058964.1	YDLPITATLAASEQTANKLEDVEFLVGELALTGALRGVPCTISSATEAIKS.GRKTIIVAKDNEDEVGLINGECGLIADH	159
NTDB id	1153	A1552VC RS00115 WP	000521788.1	FDPILPAILGILAASDIARNKLESYEFIGELALSSEIRGVKGVLPAALAANQV.ERCLVVPHSNGDQAALVGVERHKSAAQS	159
NTDB id	1397	DSB67 RS15690 WP	005535577.1	FDPILPAILGILAASEQIATDKLKNYEFVGEALSGGLRTVKGVLPALAANKK.QRHLVYPHANGDQAALVGKEQHKSAAQS	159
NTDB id	1349	HI 1117 AAC22771.1		FDPLIAIGILAASGDIDASHLKQFEFVAELATGQLRGVHGVIAPALAAQKS.KRELIIAKQNAANEASLVSDQNTYFAQT	159
NTDB id	1387	A4U84 RS06900 WP	020457569.1	FDPLIAIGILAASGQIDSDKLKRIETLLGELSLTGHLRGVHGAIPAVLAAASKA.KRETIIVPQQNANEASLVSNVTQTYCAST	159
consensus				*!!*!!**!!!!!* * * !!***! ! **! * *	

NTDB id	1323	RAOC RS07335 WP	004916218.1	IKEVIDFFNENCPL	EPTKVNTREEFHKRVNLFPF	DFSEVKGGQETAKRAME	VAAAGGHNILILI	GPPGSGKTMIAKRIPSII	238	
NTDB id	1271	LPP RS03220 WP	011213198.1	IREVCDYL	CQGTSLSLPPPKPDL...	LLNNYELDWS	DIKGQQHAKNAMV	IACCGHSILLSCAPGS	GKTMMAKRFSTLL	235
NTDB id	1248	GC085 RS03150 WP	011213198.1	IREVCDYL	CQGTSLSLPPPKPDL...	LLNNYELDWS	DIKGQQHAKNAMV	IACCGHSILLSCAPGS	GKTMMAKRFSTLL	235
NTDB id	1004982	ABI159 RS23980 WP	000058964.1	LQAVCAFL	EKGHALERPKPTDA...	VSRALQHDLSD	VIGQEQRGLLEIT	AAGGHNLIIL	GPPGTGKTMASRLINGLL	234
NTDB id	1153	A1552VC RS00115 WP	000521788.1	LEEVCADL	CGQQTSLFQSSPSV...	QQVSQTRDL	QDIIGQQQCKRALE	IAAAGNHNLLFL	GPPGTGKTMASRLCDLL	235
NTDB id	1397	DSB67 RS15690 WP	005535577.1	LEEVCDEL	CGQHQLNLYQTPKKK...	ELKAHGRL	QDIIGQQQCKRALE	IAAAGNHNLLFL	GPPGTGKTMASRLCDLL	235
NTDB id	1349	HI 1117 AAC22771.1		LDVVQFL	NGQEKPLATEIVKESAVNFSGKNTL	DLDIIGQQHAKRAL	TIAAQGHNLLFL	GPPGTGKTMASRLTGL	239	
NTDB id	1387	A4U84 RS06900 WP	020457569.1	LLQVVFNL	NNRDQLPIAQQLSQNIAEN.RPLVSR	DLDIIGQQHAKRAL	TIAASGHNLLFL	GPPGTGKTMASRLADLL	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 1004982 ABI159 RS23980 WP 000058964.1	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	LRQPLESGEIIISRAQKTRFPAFQLVGALNPSPSGHYTGTHN..RTSPQQIMRYLNRLSGPFLDRFDSLIEVPLLPQG	396
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LRQPLESGEIIISRAQKTRFPAFQLVGALNPSPSGHYTGTHN..RTSPQQIMRYLNRLSGPFLDRFDSLIEVPLLPQG	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...LNANLNSKTCEMVCELGSEEQLFLREVMSKIKLSARGYHRLK	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCEMVCELGSEEQLFLREVMSKIKLSARGYHRLK	470
NTDB id 1004982 ABI159 RS23980 WP 000058964.1	ILSKT.VVPGESSATVQQRVMAARERQFQRQNK...LNAWLDSPETIRQFCKLESEDAMWLEGLTIHLGLSTRAWQRLK	466
NTDB id 1153 A1552VC RS00115 WP 000521788.1	TLANG.GDRGESTAAVRQVRVVARERMLARSGK...VNALLQSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIK	467
NTDB id 1397 DSB67 RS15690 WP 005535577.1	TLSEG.GDRGEPTAIVKERVNQARDCMLARSGK...VNALLQSREIEAFCPQLKSDAEFLENALHRLGLSIRAYHRIK	467
NTDB id 1349 HI 1117 AAC22771.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAGK...INAYLNSKEIERDCKLNDKDAFFLEKALNKLGLSVRAYHRILK	471
NTDB id 1387 A4U84 RS06900 WP 020457569.1	ALQNNTDQRGETTEQARKRVLEARHLQFNRRGK...INAQLITKEIEQDCKLITDRDAFLFLENALTKLGLSVRAYHRILK	471
consensus	! ***** * *! ***** ! * *! ! * ***** ! ! ***** * *!*****!!*!*****!!*!	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	VSRTIADLERETNIQSHHIAEAIQYRSIDRDFWKV.....	510
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADLNSSKKVLLNHLQQAISYKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADLNSSKKVLLNHLQQAISYKQNLHLPK.....	503
NTDB id 1004982 ABI159 RS23980 WP 000058964.1	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	VSRTIADLQGEQIIFQPHLAEALGYRAMVRLKQLSNM..	509
NTDB id 1387 A4U84 RS06900 WP 020457569.1	VSRTIADLAGEAQIQPHLAEALGYRAMDRLLQRLQGES.	510
consensus	!*****! ** !****! * !***** * *	

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