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NTDB id 1323 RAOC RS07335 WP 004916218.1	MSLAIVYSRASIGVAPLVTVVHLSNGPGETLVGLPETTVKESDRVRSALINSQEFPAKRITVNLAPADLPKEGGR	78
NTDB id 1271 LPP RS03220 WP 011213198.1	.MLVKKVYGSAIHGVSAQTTITIEVNVDDGV.GYHLVGLPDNAIKESSHRISAALKNVGYKLPKGGKITINMAPADLRKEGSA	80
NTDB id 1248 GC085 RS03150 WP 011213198.1	MSLAFTTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAINSQFEFPCKRITVNLGPANLPKGTGSG	80
NTDB id 1006005 ABKP17 RS21955 WP 045337103.1	MSLAFTTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAINSQFEFPCKRITVNLGPANLPKGTGSG	80
NTDB id 1397 DSB67 RS15690 WP 005535577.1	MSLSVVYTRAIGVKAPLISVEVHLSNGLPGLTLVGLPETTVKEARDRVRSAINSGYAFPAKKITINLAPADLPKEGGR	80
NTDB id 1153 A1552VC RS00115 WP 000521788.1	MGLAIIHSRASVGVQAPSVSVEVHISNGMPGFTLVGLPETTVKESKDRVRSAINVSNFQFPAKRITVNLAPADLPKEGGR	80
NTDB id 1349 HI 1117 AAC22771.1	MGLAIIHSRASIGVQAPPVTVVEVHISNGMPGFTLVGLPETTVKESRDRVRSAINSRFEFPKAKRITVNLAPADLPKEGGR	80
NTDB id 1387 A4U84 RS06900 WP 020457569.1	MSLAIVYSRASMGVQAPLVTTIEVHLSNGKPGFTLVGLPEKTVKEAQDRVRSALMNAQFKYPAKRITVNLAPADLPKEGGR	80
consensus	MSLAIIYSRASIGVEAPLVTTIEVHISGGSPGLTLVGLPEKSVKEAQDRVRSALMNAFDPARRITINLAPADLPKEGGR	80



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NTDB id 1323 RAOC RS07335 WP 004916218.1	YDLSTALGILAASGQIIAPEIERYLIMGELSLDGGQLPIKGVLPPIARAREEGFGKITLPKQNTREAAIVNDLEVYGVEN	158
NTDB id 1271 LPP RS03220 WP 011213198.1	FDLPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id 1248 GC085 RS03150 WP 011213198.1	FDLPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id 1006005 ABKP17 RS21955 WP 045337103.1	YDLPIAIALLAASEQLNTPGLSSCEFVGELALTGALRGVPGAISGALEAIRA.GRQTIIVANENASEVSLTAEKGCLVAGH	159
NTDB id 1153 A1552VC RS00115 WP 000521788.1	FDLPIALGILAASEQIATDKLKNYEFVGELALSGGLRTVKGVLPAALAAANKK.QRHLVVPHANGDQAALVGKEQHKSAQS	159
NTDB id 1349 HI 1117 AAC22771.1	FDLPIALGILAASDQIARNKLESYEFIGELALSGEIRGVKGVLPAALAAANQV.ERCLVVPHSNGDQAALVGVERHKSQAQS	159
NTDB id 1387 A4U84 RS06900 WP 020457569.1	FDLPIAIGILAASDQLDASHLKQFEFVAELALTGQLRGVHGVIPAILAAQKS.KRELIIAKQNANEASLVSDQNTYFAQT	159
consensus	FDLPIAIGILAASGQIDSDKLKRIELLGELSLTGHLRGVHGAIPAVLAASKA.KRETIIVPQQNANEVSLVSNTQTCAST	159



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NTDB id 1323 RAOC RS07335 WP 004916218.1	IKIVIDFFNENCPLEPTKVNTREEFHKRVLNLPFPDFSEVKGQETAKRAMEVAAAGGHNIIILGPPGSGKTMIAKRIPSTIL	238
NTDB id 1271 LPP RS03220 WP 011213198.1	LREVC DYLCQGTSLQSLPPKPDLL...LLNNYELDWS DIKGQQHAKNAMVIAACGGHSILLSGAPGSGKTMMAKRFSTLL	235
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREVC DYLCQGTSLQSLPPKPDLL...LLNNYELDWS DIKGQQHAKNAMVIAACGGHSILLSGAPGSGKTMMAKRFSTLL	235
NTDB id 1006005 ABKP17 RS21955 WP 045337103.1	LQEVCAWLEGRHELAEPQENDEV...APDSPEDLSDIMGQEQGKRALEITAAGGHNLLILGPPGTGKTMLASRLSGLL	234
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LLEVCAELCGQHQLNLNYQTPKKK...ELKAHGRDLQDIIGQQQKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LLEVCAELCGQHQLNLNYQTPKKK...ELKAHGRDLQDIIGQQQKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id 1349 HI 1117 AAC22771.1	LLDVVQFLNGQEKPLATEIVKESAVNFSGKNTLDLTDIIGQQHAKRALTIAAAGQHNLLFLGPPGTGKTMLASRLTGLL	239
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LLQVVNFLNNRDQLPIAQQLSQNIAEN.RPLVSRDLTDIIGQQHAKRALTIAAAGQHNLLFLGPPGTGKTMLASRLADLL	238
consensus	LLQVVNFLNNRDQLPIAQQLSQNIAEN.RPLVSRDLTDIIGQQHAKRALTIAAAGQHNLLFLGPPGTGKTMLASRLADLL	238



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NTDB id 1323 RAOC RS07335 WP 004916218.1	PPLETLKEALETTKIHSVAGKMGAEATSLMTIRPFRSPHHTISDVAVLVGGGSYPQPGEISLAHNGVFLDPEFKRTVLEV	318
NTDB id 1271 LPP RS03220 WP 011213198.1	PELSETQALECAAINSIRGKLPDF.REWRLLPFRAPHHTASPVAVLVGGGNPPKPGEISLAHHGVFLDELPEFNRQVLET	314
NTDB id 1248 GC085 RS03150 WP 011213198.1	PELSETQALECAAINSIRGKLPDF.REWRLLPFRAPHHTASPVAVLVGGGNPPKPGEISLAHHGVFLDELPEFNRQVLET	314
NTDB id 1006005 ABKP17 RS21955 WP 045337103.1	PPLNNHEALESAAIFSLVSSSTSLH.KQWRRRPFRSPHHSASLTAMVGGGSTIPGPGEISLAHNGTFLDELPEFERVLD	313
NTDB id 1397 DSB67 RS15690 WP 005535577.1	PEMSDEEAMETASVASLTQSEINE.HNWKTRPFRAPHHSSSMAALVGGGSVPRPGEISLAHNGLLFLDEMPEFDRKVLDS	314
NTDB id 1153 A1552VC RS00115 WP 000521788.1	PEMSDEEAMETASIASLTQEQINQ.HNWKLRPFRAPHHSSSMAALVGGGTIPRPGEISLAHNGLLFLDEMPEFERKVLDS	314
NTDB id 1349 HI 1117 AAC22771.1	PEMTDLEAIETASVTSLVQNELNF.HNWKQRPFRAPHHSASMPALVGGGTIPKPGEISLATNGVFLDELPEFERKVLDA	318
NTDB id 1387 A4U84 RS06900 WP 020457569.1	PEMTDLEAIETASVTSLVQNELNF.HNWKQRPFRAPHHSASMPALVGGGSIPKPGEISLAHNGVFLDELPEFERKVLDA	317
consensus	PEMTDLEAIETASVTSLVQNELNF.HNWKQRPFRAPHHSASMPALVGGGSIPKPGEISLAHNGVFLDELPEFERKVLDA	317



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NTDB id 1323 RAOC RS07335 WP 004916218.1	LREPLESGEIIISRAAKIIFPAFQLYAAMNPSPTCGYGQONRITPQQLRYLRLSGPFLDRFDMSIEIPALPQG	397
NTDB id 1271 LPP RS03220 WP 011213198.1	MRQPLEDRVITISRAKFTVNYPASFMLVASMNPSPSGFFPDDPNNT.SSSFEMQRYLNKLSGPLLDRIDITHIEVQKVVEFD	394
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 1006005 ABKP17 RS21955 WP 045337103.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	391
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LREPESGEIHLSTRAKISYPAQFQLVAAMNPSPTGHHYQGNHN..RCTPEQTLRYLSKLSGPFLLDRFDLSLEIPLPPPG	392
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LREPLESGEIIISRAQKTRFPAQFQIVGALNPSPTGYYEGNQA..RTNPQATILRYLGRLSGPPLDRFDMSLEIPALPKG	392
NTDB id 1349 HI 1117 AAC22771.1	LREPLESGEIVISRAQKTRFPAQFQIVGALNPSPTGYYEGSSQA..RANPQSILRYLSRLSGPPLDRFDMSIEIPALPKG	396
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LRQPLESGEIIISRANAKIQFPAQFQLVAAMNPSPTGHHYTGTHN..RTSPQQIMRYLNRLSGPFLDRFDLSIEVPLLPQG	395
consensus	*!***** *!* ** *!*!*!!!!!!!!!!!! * ** * ** *!!!! *!!!!*!!!!*!!!!***** ** *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	LQNTGDRGESSAAYRERVKAREIQARQCKVALLSKEIECQLDALEFENALKGLSARAYHRLK	475
NTDB id 1271 LPP RS03220 WP 011213198.1	QLSD..KRKGESSEIRQVRLKAREIQQERYQDLAISYNAQMGPKEIEHFCELDVSLLLTKNAMEKLNLSARAYDRILK	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIQREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKLLKSARGYHRLK	470
NTDB id 1006005 ABKP17 RS21955 WP 045337103.1	ELIKPNTHLEKQSLAIQREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKLLKSARGYHRLK	466
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LLRQT.GIKGESSATVRERVIAAQAQYVVRQNR...LNARLDNSGIRQFCSLNAEDAGWLEETLTFGLSTRAWQRLK	467
NTDB id 1153 A1552VC RS00115 WP 000521788.1	TLSEG.GDRGEPTAIVKERVNQARDCLARSGL...VNALLGSREIEAFQPLQKSDAEFLENALHRLGLSIRAYHRIK	467
NTDB id 1349 HI 1117 AAC22771.1	TLANG.GDRGESTAAVRQVWVARERMLARSGK...VNALLGSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIK	471
NTDB id 1387 A4U84 RS06900 WP 020457569.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAGK...INAYLNSKEIERDCKLNDKDAFFLEKALNKLGLSVRAYHRILK	471
consensus	ALQNTDQRGETTEQARKRVLEARHLQFNRRGK...INAQLTKEIEQDCKLTDRDALFLENALTKLGLSVRAYHRILK	
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NTDB id 1323 RAOC RS07335 WP 004916218.1	VSRTIADLERETNIQSHHIAEATQYRSILDRDFWKV.....	510
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQAISYKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQAISYKQNLHLPK.....	503
NTDB id 1006005 ABKP17 RS21955 WP 045337103.1	VARTVADVEGCPGTEIRRHLEALSRYATDRLLLHLQKMLA	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	VSRTIADLQGEQIFQPHLAEALGYRAMVRLKQLSNM..	509
NTDB id 1387 A4U84 RS06900 WP 020457569.1	VSRTIADLAGEAQIQPHLAEALGYRAMDRLLQRLQGES.	510
consensus	!*****! * ** !****! * !***** *	

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