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NTDB id 1323 RAOC RS07335 WP 004916218.1	MSLAIVYSRASIGVAPVTVVHLSNGPGETLVGLPETTVKESKDRVRSALNSQEFKPARRTIYNLAPADLPKEGGR	78
NTDB id 1271 LPP RS03220 WP 011213198.1	.MLVKKVYGSAIHGVSAQTTITIEVNVDQGV.GYHLVGLPDNAIKESSHRISAAIKNVGYKLPKKKITINMAPADLRKEGSA	80
NTDB id 1248 GC085 RS03150 WP 011213198.1	MSLAFTTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAINSQFEFPCRKITVNLGPANLPKGTGSG	80
NTDB id 1009990 BIKONL RS06550 WP 029615421.1	MSLAIVHSRAQVGQVAPAVSVETHLANGLPHLITLVGLPETTVKESKDRVRSAINVNSGLKYPQRRITQNLAPADLPKDGGR	80
NTDB id 1153 A1552VC RS00115 WP 000521788.1	MGLAIIHSRASIGVQAPPVTVEVHISNGMPGFTLVGLPETTVKESKDRVRSAINSRFEFPAKRITVNLAPADLPKEGGR	80
NTDB id 1397 DSB67 RS15690 WP 005535577.1	MGLAIIHSRASVGVQAPSVSVEVHISNGMPGFTLVGLPETTVKESKDRVRSAINVNSNFQFPAKRITVNLAPADLPKEGGR	80
NTDB id 1349 HI 1117 AAC22771.1	MSLAIVYSRASMGVQAPLVTITIEVHLSNGKPGFTLVGLPEKTVKEAQDRVRSALMNAQFKYPAKRITVNLAPADLPKEGGR	80
NTDB id 1387 A4U84 RS06900 WP 020457569.1	MSLAIIYSRASIGVEAPLVTITIEVHISGGSPGLITLVGLPEKSVKEAQDRVRSALMNAFDPARRITINLAPADLPKEGGR	80
consensus	***!*** *****! *! * **!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	FDLPIALGILAAASQIIPDAIKNYEFGELALSGLRGVGVPAALAAKRLIYPNVAEASLVGLQGVYAY	158
NTDB id 1271 LPP RS03220 WP 011213198.1	YDLSTIALGILAAASQIIAPETIERYLIMGELSLDGGGLQPIKGVLPPIARAREEGFGKTIILPKQNTREAAIVNDLEVYGVEN	159
NTDB id 1248 GC085 RS03150 WP 011213198.1	FDLPIALGILAAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKDN.QHLIIANANAAEASLTGHQKVFTANN	159
NTDB id 1009990 BIKONL RS06550 WP 029615421.1	FDLPIALGILAAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKDN.QHLIIANANAAEASLTGHQKVFTANN	159
NTDB id 1153 A1552VC RS00115 WP 000521788.1	YDLAIALGILAADGQVPIATLTDMECLGELALSGKLRPVQGVLPAAALAAREAG.RALVVPRENAEEASLAGGLVYAVGH	159
NTDB id 1397 DSB67 RS15690 WP 005535577.1	FDLPIALGILAAADQIARNKLESYEFIGELALSGEIRGVKGVLPAAALANQVE.RCLVVPHSNGDQAALVGVERHKSQAS	159
NTDB id 1349 HI 1117 AAC22771.1	FDLPIALGILAAASEQIATDKLKNYEFVGLALSGGLRTVKGVLPAALAAANKKQ.RHLVVPHANGDQAALVGKEQHKSAQS	159
NTDB id 1387 A4U84 RS06900 WP 020457569.1	FDLPIAIGILAAASDQLDASHLKQFEFVAELALTGQLRGVHGVIPAILAAQKSK.RELIIAKQNANEASLVSDQNTYFAQT	159
consensus	***!***!!!!!!*!!* * ****!*!!!! *!!!! *!!!!* *!! * * **** *! ***** * **	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	LLEVCDFEINQQLIYQCNKLENNYERDLSDIIGQQAHRALIAAGHNLLFLGPPGTGKTMLASRLSDLL	238
NTDB id 1271 LPP RS03220 WP 011213198.1	IKIVIDFFNENCPLEPTKVNTREEFHKRVNLPFPDFSEVKGQETAKRAMEVAAAGGHNIIILGPPGSGKTMMAKRIPSTIL	235
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREVCDFYLCQGTSLQSLPPKPDLL...LLNNYELDWSDIKGQQAHRAMVIAACGGHSILLSGAPGSGKTMMAKRIFSTLL	235
NTDB id 1009990 BIKONL RS06550 WP 029615421.1	LREVCDFYLCQGTSLQSLPPKPDLL...LLNNYELDWSDIKGQQAHRAMVIAACGGHSILLSGAPGSGKTMMAKRIFSTLL	235
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LLEVAHNLGQVPLPPYAANGLI...LQQRYPYDLSEVQGGQLAAKRALLLAAAGAHNLLFTGPPGTGKTLLASRLPGLL	235
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LLEVCADLCGQQTLSLFQSSPSV...QQVSQTRDLQDIIGQQQKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id 1349 HI 1117 AAC22771.1	LLEVCACELCGQHQLNLYQTPKKK...ELKAHGRDLQDIIGQQQKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL	235
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LLDVVQFLNGQEKPLATEIVKESAVNFSGKNTLLDLDIIGQQQAHRALITIAAAGQHNLLFLGPPGTGKTMLASRLTGLL	239
consensus	***** * * ! !***** !* !*!* *!!!! *!!!! *!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	PEMSDEALEETASISLQKEPNEHNWKRPFRAPHHSASMVAVLVGGSPKPGEISLAHNGVFLDELPEFERKVLLEY	318
NTDB id 1271 LPP RS03220 WP 011213198.1	PPLTLKEALETTKIHSVAGKMGAEATSLMTIRPFRSPHHTISDVAVLVGGSSYPQPGEISLAHNGVFLFDEMPEFKRTVLEV	314
NTDB id 1248 GC085 RS03150 WP 011213198.1	PELSETQALECAAINSIRGKLPDF.REWRLLPFRAPHHTASPVAVLVGGNPPKPGEISLAHHGVFLFDELPEFNRQVLET	314
NTDB id 1009990 BIKONL RS06550 WP 029615421.1	PELSETQALECAAINSIRGKLPDF.REWRLLPFRAPHHTASPVAVLVGGNPPKPGEISLAHHGVFLFDELPEFNRQVLET	313
NTDB id 1153 A1552VC RS00115 WP 000521788.1	PPLDEHEALEVAAIQSVS.GKAPL.NSWPQRPFRRHPHHSASGPALVGGSSRPQPGEITLAHHGVFLFDELPEFERVLEV	314
NTDB id 1397 DSB67 RS15690 WP 005535577.1	PEMSDEEAMETASIASLTQKEINQ.HNWKLRPFRAPHHSSSMAALVGGGTIPRPGEISLAHNGLLFLDEMPEFERKVLDS	314
NTDB id 1349 HI 1117 AAC22771.1	PEMSDEEAMETASVASLTQSEINE.HNWKTRPFRAPHHSSSMAALVGGGSVPRPGEISLAHNGLLFLDEMPEFDRKVLDS	314
NTDB id 1387 A4U84 RS06900 WP 020457569.1	PEMTDLEAIETASVTSLVQNELNF.HNWKRPFRAPHHSASMPALVGGGTIPKPGEISLATNGVFLFDELPEFERKVLDA	318
consensus	PEMTDLEAIETASVTSLVQNELNF.QNWKRPFRAPHHSASMPALVGGGSIPKPGEISLAHNGVFLFDELPEFERKVLDA	317
consensus	!***** *!!!!* * !* *!!!!*!!!!*!!!! *!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	LREPLESGEIVISRAAKYRFPQFYAAMNPSPDGYGSSQNRISPPQRLRYLNRLSGPFLDRDMSIEYPALPQG	397
NTDB id 1271 LPP RS03220 WP 011213198.1	MRQPLEDRVETISRAKFTVNYPASFMLVASMNPSPSGFFPDDPN.NTSSSFEMQRYLNKLSGPLLDRIDITHIEVQKVVEFD	394
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 1009990 BIKONL RS06550 WP 029615421.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	392
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LREPLESGEIVISRAQKTRFPAKFQLVGALNPSPDGYGSSQ..ARANPQSILRYLSRLSGPLLDRFDMSTIEIPALPKG	392
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LREPLESGEIIISRAQKTRFPAKFQIVGALNPSPDGYGEGNQ..ARTNPQAAILRYLGRLSGPLLDRFDMSTIEIPALPKG	392
NTDB id 1349 HI 1117 AAC22771.1	LRQPLESGEIIISRAQKTRFPAKFQIVGALNPSPDGHYTGTH..NRTSPQQIMRYLNRLSGPFLDRFDLSIEVPLLPQG	396
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LRQPLESGEIIISRAQKTRFPAKFQIVGALNPSPDGHYQGTH..NRTSPQQIMRYLNRLSGPFLDRFDLSIEVPLLPQG	395
consensus	*!!!!!!!!!!!!!! **** *!!!!!!*****!!!!!! * * * ** *!!!!*****!!!!!! !* **** *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	LSPKCDRGESAAVREVRKAREQARQGKVALLSKEIECYLDALEFLEALKLLSARAYHRLK	475
NTDB id 1271 LPP RS03220 WP 011213198.1	QLSD..KRKGESSEIRQRVLKAREIQQERYQDLAISYNAQMGPKEIEHFCELDVSLLLIKNAMEKLNLSARAYDRILK	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQD...SLNANLNSKTCCEMVCELGSEEQFLFLREVMSKLLKSARGYHRLK	470
NTDB id 1009990 BIKONL RS06550 WP 029615421.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQD...SLNANLNSKTCCEMVCELGSEEQFLFLREVMSKLLKSARGYHRLK	466
NTDB id 1153 A1552VC RS00115 WP 000521788.1	..TLNNQPCGETSADVAVRVAEARELQHRQ...CANAFDLDLEGLRHHCGLVAADQVWLEGACERLTLSLRAAHRLK	467
NTDB id 1397 DSB67 RS15690 WP 005535577.1	TLANG.GDRGESTAAVRQVRVVARERMLARSG...KVNALLQSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIK	467
NTDB id 1349 HI 1117 AAC22771.1	TLSEG.GDRGEPTAIVKERVNQARDCMLARSG...KVNALLQSREIEAFCPQLKSDAEFLENALHRLGLSIRAYHRIK	471
NTDB id 1387 A4U84 RS06900 WP 020457569.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAG...KINAYLNSKEIERDCKLNDKDAFFLEKALNKLGLSVRAYHRILK	471
consensus	ALQNNTDQRGETTEQARKRVLEARHLQFNRRG...KINAQLTTKEIEQDCKLTDRDALFLENALTKLGLSVRAYHRILK	
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NTDB id 1323 RAOC RS07335 WP 004916218.1	VSRTIADLERETNIQSHHIAEAIQYRSIDRDFWKV.....	510
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADLNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADLNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1009990 BIKONL RS06550 WP 029615421.1	VARTIADLEGCEITIGRAHLAEALQYRPGSS.....	496
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	VSRTIADLQGEQIFQPHLAEALGYRAMVRLKQLSNM..	509
NTDB id 1387 A4U84 RS06900 WP 020457569.1	VSRTIADLAGEAQIQPHLAEALGYRAMDRLLQRLQGES.	510
consensus	!***** * * !****! * !* * * *	

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