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NTDB id 1323 RA0C RS07335 WP 004916218.1     .MLVKVYGSAIHGVSAQTITIEVNVDQGV.GYHLVGLPDNAIKESSHRISAALKNVGYKLPGKKITINMAPADLRKEGSA   78
NTDB id 1271 LPP RS03220 WP 011213198.1      MSLAFTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG   80
NTDB id 1248 GCO85 RS03150 WP 011213198.1    MSLAFTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG   80
NTDB id 71147 N643 RS17150 WP 000058938.1    MSLSIVHTRAALGVNAPPITIEVHISNGLPGLTMVGLPETTVKEARDRVRSAIINSGYEFPAKKITINLAPADLPKEGGR   80
NTDB id 1446 BW25113 RS19560 WP 000058964.1  MSLSIVHTRAALGVNAPPITVEVHISKGLPGLTMVGLPETTVKEARDRVRSAIINSGYEYPAKKITINLAPADLPKEGGR   80
NTDB id 1153 A1552VC RS00115 WP 000521788.1  MGLAIIHSRASIGVQAPPVTVEVHISNGMPGFTLVGLPETTVKESRDRVRSAIINSRFEFPAKRITVNLAPADLPKEGGR   80
NTDB id 1397 DSB67 RS15690 WP 005535577.1    MGLAIIHSRASVGVQAPSVSVEVHISNGMPGFTLVGLPETTVKESKDRVRSAIVNSNFQFPAKRITVNLAPADLPKEGGR   80
NTDB id 1349 HI 1117 AAC22771.1              MSLAIVYSRASMGVQAPLVTIEVHLSNGKPGFTLVGLPEKTVKEAQDRVRSALMNAQFKYPAKRITVNLAPADLPKEGGR   80
NTDB id 1460 ASU2 RS09990 WP 015674260.1     MSLAIVYSRASIGVEAPLVTIEVHLSNGKPGLTIVGLPETTVKEAGDRVRSALMNANFMYPPQRITINLAPADLPKEGGR   80
NTDB id 1387 A4U84 RS06900 WP 020457569.1    MSLAIIYSRASIGVEAPLVTIEVHISGGSPGLTLVGLPEKSVKEAQDRVRSALMNANFDYPARRITINLAPADLPKEGGR   80
consensus                                    **!***  *****!**!*****!!*****!******!!!*****!!  **!***!**!*****!***!!*!**!!*!*!*!**
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NTDB id 1323 RA0C RS07335 WP 004916218.1     YDLSIALGILAASGQIIAPEIERYLIMGELSLDGGLQPIKGVLPIAIRAREEGFKGIILPKQNTREAAIVNDLEVYGVEN   158
NTDB id 1271 LPP RS03220 WP 011213198.1      FDLPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKDN.QHLIIANANAAEASLTGHQKVFTANN   159
NTDB id 1248 GCO85 RS03150 WP 011213198.1    FDLPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKDN.QHLIIANANAAEASLTGHQKVFTANN   159
NTDB id 71147 N643 RS17150 WP 000058938.1    YDLPIAIALLAASEQLTASHLEDYELVGELALTGALRGVPGAISSATEAIRAG.RNIIVATENAAEVGLIGKEGCFIADH   159
NTDB id 1446 BW25113 RS19560 WP 000058964.1  YDLPIAIALLAASEQLTANKLDEYELVGELALTGALRGVPGAISSATEAIKSG.RKIIVAKDNEDEVGLINGEGCLIADH   159
NTDB id 1153 A1552VC RS00115 WP 000521788.1  FDLPIALGILAASDQIARNKLESYEFIGELALSGETRGVKGVLPAALAANQVE.RCLVVPHSNGDQAALVGVERHKSAQS   159
NTDB id 1397 DSB67 RS15690 WP 005535577.1    FDLPIALGILAASEQIATDKLKNYEFVGELALSGGLRTVKGVLPAALAANKKQ.RHLVVPHANGDQAALVGKEQHKSAQS   159
NTDB id 1349 HI 1117 AAC22771.1              FDLPIAIGILAASDQLDASHLKQFEFVAELALTGQLRGVHGVIPAILAAQKSK.RELIIAKQNANEASLVSDQNTYFAQT   159
NTDB id 1460 ASU2 RS09990 WP 015674260.1     FDLPIAIGILAASGQMDSDRLKQFEFLGELALTGTLRGVHGVIPAVISAEKAK.RQMIIARPNVNEASLVSNAETYFASS   159
NTDB id 1387 A4U84 RS06900 WP 020457569.1    FDLPIAIGILAASGQIDSDKLKRIELLGELSLTGHLRGVHGAIPAVLAASKAK.REIIVPQQNANEVSLVSNTQTYCAST   159
consensus                                    *!!*!!***!!!!*!*   **  ******!!*!*!  ****  *********!  *   * ****  !* ******    * ***
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NTDB id 1323 RA0C RS07335 WP 004916218.1     IKEVIDFFNENCPLEPTKVNTREEFHKRVNLFPFDFSEVKGQETAKRAMEVAAAGGHNIILIGPPGSGKTMLAKRIPSIL   238
NTDB id 1271 LPP RS03220 WP 011213198.1      LREVCDYLCQGTSLQSLPPKPDL....LLNNYELDWSDIKGQQHAKNAMVIAACGGHSILLSGAPGSGKTMMAKRFSTLL   235
NTDB id 1248 GCO85 RS03150 WP 011213198.1    LREVCDYLCQGTSLQSLPPKPDL....LLNNYELDWSDIKGQQHAKNAMVIAACGGHSILLSGAPGSGKTMMAKRFSTLL   235
NTDB id 71147 N643 RS17150 WP 000058938.1    LQTVCAFLECKCPLDRPLAP.....DMASPMAIADLSDVIGQEQGKRGLEIAAAGEHNLLLIGPPGTGKTMLASRLSGIL   234
NTDB id 1446 BW25113 RS19560 WP 000058964.1  LQAVCAFLECKHALERPKPT.....DAVSRALQHDLSDVIGQEQGKRGLEITAAGGHNLLLIGPPGTGKTMLASRINGLL   234
NTDB id 1153 A1552VC RS00115 WP 000521788.1  LLEVCADLCGQQTLSLFQSSPSV....QQVSQTRDLQDIIGQQQGKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL   235
NTDB id 1397 DSB67 RS15690 WP 005535577.1    LLEVCAELCGQHQLNLYQTPKKK....ELKAHGRDLQDIIGQQQGKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL   235
NTDB id 1349 HI 1117 AAC22771.1              LLDVVQFLNGQEKLPLATEIVKESAVNFSGKNTLDLTDIIGQQHAKRALTIAAAGQHNLLFLGPPGTGKTMLASRLTGLL   239
NTDB id 1460 ASU2 RS09990 WP 015674260.1     LLQVVNFMNKRDSLPIAQQIPQKTQE.IQPLVKRDLTDIIGQQHAKRALMIAAAGQHNLLFLGPPGTGKTMLASRLADLL   238
NTDB id 1387 A4U84 RS06900 WP 020457569.1    LLQVVNFLNNRDQLPIAQQLSQNIAE.NRPLVSRDLTDIIGQQHAKRALIIAAASGQHNLLFLGPPGTGKTMLASRLADLL   238
consensus                                    ***!*  **  *    ! *                 !*****!!***!******!*!*!***  *!*!!*!!!!*!*!*   *!
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NTDB id 1323 RA0C RS07335 WP 004916218.1     PPLTLKEALETTKIHSVAGKMGAETSLMTIRPFRSPHHTISDVALVGGGSYPQPGEISLAHNGVLFLDEMPEFKRTVLEV   318
NTDB id 1271 LPP RS03220 WP 011213198.1      PELSETQALECAAINSIRGKLPDF.REWRLPPFRAPHHTASPVALVGGGNPPKPGEISLAHHGVLFLDELPEFNRQVLET   314
NTDB id 1248 GCO85 RS03150 WP 011213198.1    PELSETQALECAAINSIRGKLPDF.REWRLPPFRAPHHTASPVALVGGGNPPKPGEISLAHHGVLFLDELPEFNRQVLET   314
NTDB id 71147 N643 RS17150 WP 000058938.1    PPLSNEEALESAAILSLVNCNTLQ.KQWQQRPFRSPHHSASLTAMVGGGAIPAPGEISLAHNGILFLDELPEFERRTLDA   313
NTDB id 1446 BW25113 RS19560 WP 000058964.1  PDLSNEEALESAAILSLVNAESVQ.KQWRQRPFRSPHHSASLTAMVGGGAIPGPGEISLAHNGVLFLDELPEFERRTLDA   313
NTDB id 1153 A1552VC RS00115 WP 000521788.1  PEMSDEEAMETASIASLTQQEINQ.HNWKLRPFRAPHHSSSMAALVGGGTIPRPGEISLAHNGLLFLDEMPEFERKVLDS   314
NTDB id 1397 DSB67 RS15690 WP 005535577.1    PEMSDEEAMETASVASLTQSEINE.HNWKTRPFRAPHHSSSMAALVGGGSVPRPGEISLAHNGLLFLDEMPEFDRKVLDS   314
NTDB id 1349 HI 1117 AAC22771.1              PEMTDLEAIETASVTSLVQNELNF.HNWKQRPFRAPHHSASMPALVGGGTIPKPGEISLATNGVLFLDELPEFERKVLDA   318
NTDB id 1460 ASU2 RS09990 WP 015674260.1     PAMSDDEAIETASVTSLVQNELNF.HNWKERPFRAPHHSASMVALVGGGSIPKPGEISLAHNGVLFLDELPEFERKVLDA   317
NTDB id 1387 A4U84 RS06900 WP 020457569.1    PEMEDDEAIETASVTSLVQNELNF.QNWKKRPFRSPHHSASMVALVGGGSIPKPGEISLAHNGVLFLDELPEFERKVLDA   317
consensus                                    !******!*!**** !*** **** *** *!!!*!!!**!**!*!!!!!*!*!!!!!!!!**!*!!!!!*!!!*!**!**
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NTDB id 1323 RA0C RS07335 WP 004916218.1     MRQPLEDREVTISRAKFTVNYPASFMLVASMNPSPSGFFPDDPNNT.SSSFEMQRYLNKLSGPLLDRIDIHIEVQKVEFD   397
NTDB id 1271 LPP RS03220 WP 011213198.1      LREPLESGHICISRAAAQIEFPAKFQLIAAMNPCPCGQWGNSQANCMCTPDRISRYLAKLSAPLLDRIDMQVTIHALSQE   394
NTDB id 1248 GCO85 RS03150 WP 011213198.1    LREPLESGHICISRAAAQIEFPAKFQLIAAMNPCPCGQWGNSQANCMCTPDRISRYLAKLSAPLLDRIDMQVTIHALSQE   394
NTDB id 71147 N643 RS17150 WP 000058938.1    LREPIESGQIHLSRTRAKITYPARFQLIAAMNPSPTGHYQGNHN..RCSPEQTLRYLNKLSGPFLDRFDLSLEIPLPPPG   391
NTDB id 1446 BW25113 RS19560 WP 000058964.1  LREPIESGQIHLSRTRAKITYPARFQLVAAMNPSPTGHYQGNHN..RCTPEQTLRYLNRLSGPFLDRFDLSLEIPLPPPG   391
NTDB id 1153 A1552VC RS00115 WP 000521788.1  LREPLESGEIVISRAQGKTRFPARFQLVGALNPSPTGYYEGSQA..RANPQSILRYLSRLSGPLLDRFDMSIEIPALPKG   392
NTDB id 1397 DSB67 RS15690 WP 005535577.1    LREPLESGEIIISRAQGKTRFPARFQIVGALNPSPTGYYEGNQA..RTNPQAILRYLGRLSGPLLDRFDMSLEIPALPKG   392
NTDB id 1349 HI 1117 AAC22771.1              LRQPLESGEIIISRANAKIQFPARFQLVAAMNPSPTGHYTGTHN..RTSPQQIMRYLNRLSGPFLDRFDLSIEVPLLPQG   396
NTDB id 1460 ASU2 RS09990 WP 015674260.1     LRQPLEAGEIIISRANAKVQFPASFQLIAAMNPSPTGHYQGTHN..RTSPQQVMRYLNRLSGPFLDRFDLSIEVPLLPKG   395
NTDB id 1387 A4U84 RS06900 WP 020457569.1    LRQPLESGEIIISRANAKVQFPACFQLIAAMNPSPTGHYQGTHN..RTSPQQLMRYLNRLSGPFLDRFDLSIEVPLLPQG   395
consensus                                    *!*!*!******!!*****  *!!*!******!!*!*!** ****  *********!!!**!!*!  !!!*!**********  *
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NTDB id 1323 RA0C RS07335 WP 004916218.1     QLSD..KRKGESSEIIRQRVLKAREIQQERYQDLAISYNAQMGPKEIEHFCELDEVSLLLIKNAMEKLNLSARAYDRILK   475
NTDB id 1271 LPP RS03220 WP 011213198.1      ELIKPNTHLEKQSLAIREKVTKMHEIQMARQDS....LNANLNSKTCEMVCELGSEEQLFLREVMSKLKLSARGYHRLLK   470
NTDB id 1248 GCO85 RS03150 WP 011213198.1    ELIKPNTHLEKQSLAIREKVTKMHEIQMARQDS....LNANLNSKTCEMVCELGSEEQLFLREVMSKLKLSARGYHRLLK   470
NTDB id 71147 N643 RS17150 WP 000058938.1    ILSQ.HAIKGENSATVKTRVIAARERQYQRQNK....LNARLESGEIHKYCTLHHDDARWLEDTLIHLGLSIRAWQRLLK   466
NTDB id 1446 BW25113 RS19560 WP 000058964.1  ILSK.TVVPGESSATVKQRVMAARERQFKRQNK....LNAWLDSPEIRQFCKLESEDAMWLEGTLIHLGLSIRAWQRLLK   466
NTDB id 1153 A1552VC RS00115 WP 000521788.1  TLAN.GGDRGESTAAVRQRVWVARERMLARSGK....VNALLQSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIIK   467
NTDB id 1397 DSB67 RS15690 WP 005535577.1    TLSE.GGDRGEPTAIVKERVNQARDCMLARSGK....VNALLGSREIEAFCPLQKSDAEFLENALHRLGLSIRAYHRIIK   467
NTDB id 1349 HI 1117 AAC22771.1              SLQN.TGDRGETSAQVREKVLKVREIQMERAGK....INAYLNSKEIERDCKLNDKDAFFLEKALNKLGLSVRAYHRILK   471
NTDB id 1460 ASU2 RS09990 WP 015674260.1     ALQS.SDNRGETTEQVRKRVFLARELQMARAGK....INAKLTTKEIERDCRLAEKDALFLENALTKLGLSVRAYHRILK   470
NTDB id 1387 A4U84 RS06900 WP 020457569.1    ALQNNTDQRGETTEQARKRVLEARHLQFNRRGK....INAQLTTKEIEQDCKLTDRDALFLENALTKLGLSVRAYHRILK   471
consensus                                     !      ****** ** *!* *******! **     *!! * ***** *! !    ****** ** *!*!!*!***!**!
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NTDB id 1323 RA0C RS07335 WP 004916218.1     VSRTIADLERETNIQSHHIAEAIQYRSLDRDFWKV.....   510
NTDB id 1271 LPP RS03220 WP 011213198.1      VSRTIADMNSSKKVLLNHLQQALSYKQNLHLPK.......   503
NTDB id 1248 GC085 RS03150 WP 011213198.1    VSRTIADMNSSKKVLLNHLQQALSYKQNLHLPK.......   503
NTDB id 71147 N643 RS17150 WP 000058938.1    VARTIADIEQADEITRQHLQEAVSYRAIDRLLIHLQKLLA   506
NTDB id 1446 BW25113 RS19560 WP 000058964.1  VARTIADIDQSDIITRQHLQEAVSYRAIDRLLIHLQKLLT   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              VSRTIADLQGEQQIFQPHLAEALGYRAMVRLLQKLSNM..   509
NTDB id 1460 ASU2 RS09990 WP 015674260.1     VSRTIADLANEPNIQQIHLAEALGYRAMDRLLQRLQGEN.   509
NTDB id 1387 A4U84 RS06900 WP 020457569.1    VSRTIADLAGEAQIQQPHLAEALGYRAMDRLLQRLQGES.   510
consensus                                    !*!!!!!*  * **   !***!**!*******  *
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X non conserved
X similar
X $\geq$ 50% conserved