logo

```
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 1154616 N4J73 RS17525 WP 038874711.1 MSLAVIYSRAIIGVQAPSVTVEVHISNGLPGLTLVGLPETTVKEARDRVRSALINNGFTFPARRITVNLAPADLPKEGGR   80
NTDB id 1397 DSB67 RS15690 WP 005535577.1    MGLAIIHSRASVGVQAPSVSVEVHISNGMPGFTLVGLPETTVKESKDRVRSAIVNSNFQFPAKRITVNLAPADLPKEGGR   80
NTDB id 1153 A1552VC RS00115 WP 000521788.1  MGLAIIHSRASIGVQAPPVTVEVHISNGMPGFTLVGLPETTVKESRDRVRSAIINSRFEFPAKRITVNLAPADLPKEGGR   80
NTDB id 1349 HI 1117 AAC22771.1              MSLAIVYSRASMGVQAPLVTIEVHLSNGKPGFTLVGLPEKTVKEAQDRVRSALMNAQFKYPAKRITVNLAPADLPKEGGR   80
NTDB id 1387 A4U84 RS06900 WP 020457569.1    MSLAIIYSRASIGVEAPLVTIEVHISGGSPGLTLVGLPEKSVKEAQDRVRSALMNANFDYPARRITINLAPADLPKEGGR   80
consensus                                    **!*** *****!* !* ***!!****!******!!!*****!!***!***!**!  **  *!***!!*!**!!*!*!*!**
```

logo

```
NTDB id 1323 RA0C RS07335 WP 004916218.1     YDLSIALGILAASGQIIAPEIERYLIMGELSLDGGLQPIKGVLPIAIRAREEGFKGIILPKQNTREAAIVNDLEVYGVEN  158
NTDB id 1271 LPP RS03220 WP 011213198.1      FDLPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKD.NQHLIIANANAAEASLTGHQKVFTANN  159
NTDB id 1248 GCO85 RS03150 WP 011213198.1    FDLPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKD.NQHLIIANANAAEASLTGHQKVFTANN  159
NTDB id 1154616 N4J73 RS17525 WP 038874711.1 YDLPIALAILAASEQLPLAPLARYEFLGELALSGALRAVRGAIPAALAAADA.GRQLILSADNAAEVGLIAQSRSHTARH  159
NTDB id 1397 DSB67 RS15690 WP 005535577.1    FDLPIALGILAASEQIATDKLKNYEFVGELALSGGLRTVKGVLPAALAANKK.QRHLVVPHANGDQAALVGKEQHKSAQS  159
NTDB id 1153 A1552VC RS00115 WP 000521788.1  FDLPIALGILAASDQIARNKLESYEFIGELALSGEIRGVKGVLPAALAANQV.ERCLVVPHSNGDQAALVGVERHKSAQS  159
NTDB id 1349 HI 1117 AAC22771.1              FDLPIAIGILAASDQLDASHLKQFEFVAELALTGQLRGVHGVIPAILAAQKS.KRELIIAKQNANEASLVSDQNTYFAQT  159
NTDB id 1387 A4U84 RS06900 WP 020457569.1    FDLPIAIGILAASGQIDSDKLKRIELLGELSLTGHLRGVHGAIPAVLAASKA.KREIIVPQQNANEVSLVSNTQTYCAST  159
consensus                                    *!!*!!**!!!!!*!*     *   ****!!*!*! **** ***!* **! *   * ***   !* ** ***    ****
```

logo

```
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 1154616 N4J73 RS17525 WP 038874711.1 LLEVCAFLLGQGELPVAATPPAA....DTACDSADLRDIIGQEQAKRALEIAAAGGHNLLLIGPPGTGKTMLASRLTGLL  235
NTDB id 1397 DSB67 RS15690 WP 005535577.1    LLEVCAELCGQHQLNLYQTPKKK....ELKAHGRDLQDIIGQQQGKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL  235
NTDB id 1153 A1552VC RS00115 WP 000521788.1  LLEVCADLCGQQTLSLFQSSPSV....QQVSQTRDLQDIIGQQQGKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL  235
NTDB id 1349 HI 1117 AAC22771.1              LLDVVQFLNGQEKLPLATEIVKESAVNFSGKNTLDLTDIIGQQHAKRALTIAAAGQHNLLFLGPPGTGKTMLASRLTGLL  239
NTDB id 1387 A4U84 RS06900 WP 020457569.1    LLQVVNFLNNRDQLPIAQQLSQNIAEN.RPLVSRDLTDIIGQQHAKRALIIAASGQHNLLFLGPPGTGKTMLASRLADLL  238
consensus                                    ***!* **  *  ! *                    !*****!!* *!*!* *!!*! !*** *!*!!*!!!!*!*!*  *!
```

logo

```
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 1154616 N4J73 RS17525 WP 038874711.1 PPLTEHEALESLAVASLQHHIPAA.LPWRQRPFRAPHHSASMAALVGGGSLPRPGEISMAHNGVLFLDELPEFERKVLDA  314
NTDB id 1397 DSB67 RS15690 WP 005535577.1    PEMSDEEAMETASVASLTQSEINE.HNWKTRPFRAPHHSSSMAALVGGGSVPRPGEISLAHNGLLFLDEMPEFDRKVLDS  314
NTDB id 1153 A1552VC RS00115 WP 000521788.1  PEMSDEEAMETASIASLTQQEINQ.HNWKLRPFRAPHHSSSMAALVGGGTIPRPGEISLAHNGLLFLDEMPEFERKVLDS  314
NTDB id 1349 HI 1117 AAC22771.1              PEMTDLEAIETASVTSLVQNELNF.HNWKQRPFRAPHHSASMPALVGGGTIPKPGEISLATNGVLFLDELPEFERKVLDA  318
NTDB id 1387 A4U84 RS06900 WP 020457569.1    PEMEDDEAIETASVTSLVQNELNF.QNWKKRPFRSPHHSASMVALVGGGSIPKPGEISLAHNGVLFLDELPEFERKVLDA  317
consensus                                    !**** *!*!** *  !*          **  *!!!*!!!**!*  !!!!!!**!*!!!!!*!**!*!!!!!*!!!*!*!!*
```

logo

```
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 1154616 N4J73 RS17525 WP 038874711.1  LREPLESGEIVISRANAKVCFPARVQLIAAMNPSPTGHYQGLHNR..TSPQQVLRYLARLSGPFLDRFDLSIEVPLLPPG  392
NTDB id 1397 DSB67 RS15690 WP 005535577.1     LREPLESGEIISRAQGKTRFPARFQIVGALNPSPTGYYEGNQAR..TNPQAILRYLGRLSGPLLDRFDMSLEIPALPKG  392
NTDB id 1153 A1552VC RS00115 WP 000521788.1   LREPLESGEIVISRAQGKTRFPARFQLVGALNPSPTGYYEGSQAR..ANPQSILRYLSRLSGPLLDRFDMSIEIPALPKG  392
NTDB id 1349 HI 1117 AAC22771.1               LRQPLESGEIISRANAKIQFPARFQLVAAMNPSPTGHYTGTHNR..TSPQQIMRYLNRLSGPFLDRFDLSIEVPLLPQG  396
NTDB id 1387 A4U84 RS06900 WP 020457569.1     LRQPLESGEIISRANAKVQFPACFQLIAAMNPSPTGHYQGTHNR..TSPQQLMRYLNRLSGPFLDRFDLSIEVPLLPQG  395
consensus                                     *!*!!!*****!!!!**** *!!*********!!*!*! * **  *  **** **!!! *!!*!*!!!*!****** ** *
```

logo

```
NTDB id 1323 RA0C RS07335 WP 004916218.1      QLSD..KRKGESSEIIRQRVLKAREIQQERYQDLAISYNAQMGPKEIEHFCELDEVSLLLIKNAMEKLNLSARAYDRILK  475
NTDB id 1271 LPP RS03220 WP 011213198.1       ELIKPNTHLEKQSLAIREKVTKMHEIQMARQD....SLNANLNSKTCEMVCELGSEEQLFLREVMSKLKLSARGYHRLLK  470
NTDB id 1248 GCO85 RS03150 WP 011213198.1     ELIKPNTHLEKQSLAIREKVTKMHEIQMARQD....SLNANLNSKTCEMVCELGSEEQLFLREVMSKLKLSARGYHRLLK  470
NTDB id 1154616 N4J73 RS17525 WP 038874711.1  TLSQR.KTQGESSELVRKRVQQARARQLERAG....KVNALLSNREVERDCVLQTADAEFLETTLNALGLSVRAWQRILK  467
NTDB id 1397 DSB67 RS15690 WP 005535577.1     TLSEG.GDRGEPTAIVKERVNQARDCMLARSG....KVNALLGSREIEAFCPLQKSDAEFLENALHRLGLSIRAYHRIIK  467
NTDB id 1153 A1552VC RS00115 WP 000521788.1   TLANG.GDRGESTAAVRQRVWVARERMLARSG....KVNALLQSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIIK  467
NTDB id 1349 HI 1117 AAC22771.1               SLQNT.GDRGETSAQVREKVLKVREIQMERAG....KINAYLNSKEIERDCKLNDKDAFFLEKALNKLGLSVRAYHRILK  471
NTDB id 1387 A4U84 RS06900 WP 020457569.1     ALQNNTDQRGETTEQARKRVLEARHLQFNRRG....KINAQLTTKEIEQDCKLTDRDALFLENALTKLGLSVRAYHRILK  471
consensus                                      !       *****  **  *!  ****** ! *    **!! * ****!  ! !   **  *** **  *!*!!*!***!**!
```

logo

```
NTDB id 1323 RA0C RS07335 WP 004916218.1      VSRTIADLERETNIQSHHIAEAIQYRSLDRDFWKV.....  510
NTDB id 1271 LPP RS03220 WP 011213198.1       VSRTIADMNSSKKVLLNHLQQALSYKQNLHLPK.......  503
NTDB id 1248 GCO85 RS03150 WP 011213198.1     VSRTIADMNSSKKVLLNHLQQALSYKQNLHLPK.......  503
NTDB id 1154616 N4J73 RS17525 WP 038874711.1  VARTLADLAGDVELNRRHLSEALGYRSMDRLLLQLHRSLE  507
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               VSRTIADLQGEQQIFQPHLAEALGYRAMVRLLQKLSNM..  509
NTDB id 1387 A4U84 RS06900 WP 020457569.1     VSRTIADLAGEAQIQQPHLAEALGYRAMDRLLQRLQGES.  510
consensus                                     !*!!*!!* ** **    !***!**!* *****  *
```

X non conserved

X similar

X ≥ 50% conserved