```
logo
NTDB id 601 KW2 RS02615 WP 021036805.1      ..................................................MLCQNCNINEA........TIHLYTSVNGQK....KQI   26
NTDB id 63458 BTOYO RS19125 WP 000365396.1  MDLNQMTTKTQEAIMSAQSLAVSHHHQEVDTVHLLLALLEEQDGLAVRIFQKMNVDIEALKQDVENVIKKKPSVTGSGAEVGKL.   84
NTDB id 85 BSU 00860 NP 387967.1            MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLIGR.......GQEMSQTI   78
consensus                                   *     * * *  *  **  **   ** * * ******* * **** ** ! ***  * *  *** *! *  ** * * ** * *

logo
NTDB id 601 KW2 RS02615 WP 021036805.1      DLCQNCYQIMKSGGQ.............EALFCAGNASNCNSDEPFNPFNDIFSALQGQDFNGAASNQTPPTQTGGRGPRGPQNP   98
NTDB id 63458 BTOYO RS19125 WP 000365396.1  YITSNLQQLLVRAGKEAEKLQDDYISVEHVLLAFSEEKGDI.NHLFTRLHITKDNLLQSLMTVRG.........N..QRVTSQNP  157
NTDB id 85 BSU 00860 NP 387967.1            HYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQLLGSNET.....G..SSAAGTNS  156
consensus                                    ** *  ***  ** ** **   **  ***!**   *  **   *** * **   * ****** *** *     *     * *!*

logo
NTDB id 601 KW2 RS02615 WP 021036805.1      RAKQPKGMLEEFGINITESARRGEIDPVIGRDEEIKRVIEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPQKLQNKEV  183
NTDB id 63458 BTOYO RS19125 WP 000365396.1  EA..TYEALEKYGRDLVAEVRAGKIDPVIGRDSEIRRVIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVKKDVPEGLKDRII  240
NTDB id 85 BSU 00860 NP 387967.1            NA..NTPTLDSLARDLTAIAKEDSLDPVIGRSKEIQRVIEVLSRRTKNNPVLIGEPGVGKTAIAEGLAQQIINNEVPEILRDKRV  239
consensus                                    !       !* ******* ** * *!!!!!!* !!*!!!**!*!*!!!!!!!!!!!!!!!!!**!!!!!*!*  *!!* !*** *

logo
NTDB id 601 KW2 RS02615 WP 021036805.1      IRLDVVSLVQGTGIRGQFEERMQKLMDEIRK.RNDVIMFIDEIHEIVGAGSAGDGNMDAGNILKPALARGELQLVGATTLNEYR.  266
NTDB id 63458 BTOYO RS19125 WP 000365396.1  FALDMSALVAGAKFRGEFEERLQAVLNEIKKSEGRILLFIDELHTIVGAGKT.EGAMDAGNMLKPMLARGELHCIGATTLDEYRK  324
NTDB id 85 BSU 00860 NP 387967.1            MTLDMGTVVAGTKYRGEFEDRLKKVMDEIRQ.AGNIILFIDELHTLIGAGGA.EGAIDASNILKPSLARGELQCIGATTLDEYRK  322
consensus                                   * !!* **!*!***!!*!!*!******!!**  * ***!!!!*!***!!! * *!**!!*!*!!! !!!!!!***!!!!!*!!!*

logo
NTDB id 601 KW2 RS02615 WP 021036805.1      IIEKDAALERRMQPVKVDEPSVDETITILRGIQARYEDYHHVKYTDEAIEAAAHLSNRYIQDRFLPDKAIDLLDESGSKKNLTLK  351
NTDB id 63458 BTOYO RS19125 WP 000365396.1  YIEKDPALERRFQQVLAEEPTVEDTISILRGLKERFEIYHGVNIHDRAIVAASVLSDRYISDRFLPDKAIDLVDEACATIFTEID  409
NTDB id 85 BSU 00860 NP 387967.1            YIEKDAALERRFQPIQVDQPSVDESIQILQGLRDRYEAHHRVSITDDAIEAAVKLSDRYISDRFLPDKAIDLIDEAGSKVRLRSF  407
consensus                                   *!!!!*!!!!!*!** ***!*!***!*!!*!**!*! *! ! **!*!!*!!  !!*!!!*!!!!!!!!!!!!*!!*******  *

logo
NTDB id 601 KW2 RS02615 WP 021036805.1      FVDP..EDINRRIADAENKKNEATKAEDF...............................EKAAHFRDQISKLRELQKQE..  398
NTDB id 63458 BTOYO RS19125 WP 000365396.1  SMPTELDEVTRRIMQLEIEEAALGKEKDFGSQERLKTLQRELSDLKEVASSMRAKWEKEKEDIHKVRDLREHLERLRRELEEAEG  494
NTDB id 85 BSU 00860 NP 387967.1            TTPPNLKELEQKLDEVRKEKDAAVQSQEF...............................EKAASLRDTEQRLREQVEDTKK  458
consensus                                   **** **** *** *** ** ** *  *!                                   *!** *!* * *!!* ***
```

```
logo
NTDB id 601 KW2 RS02615 WP 021036805.1      ..................................VTDEDMPVITEKDIEQIVEQKTQIPVGDLKEKEQTQLINLADDLKAHVIGQ   449
NTDB id 63458 BTOYO RS19125 WP 000365396.1  NYDLNKAAELRHGKIPAIEKELKEAEEMSAHNKQENRLLREEVSEEEIADIVSRWTGIPVAKLVEGEREKLLRLEQILSERVIGQ   579
NTDB id 85 BSU 00860 NP 387967.1            SWK..............................EKQGQENSEVTVDDIAMVVSSWTGVPVSKIAQTETDKLLNMENILHSRVIGQ   513
consensus                                    *                                 *  *  ******!* *!* *!**!!*** * ! **!******!  *!!!!

logo
NTDB id 601 KW2 RS02615 WP 021036805.1      DEAVDKISKAIRRSRVGLGKPNRPIGSFLFVGPTGVGKTELAKQLAKELFGSSESMIRFDMSEYMEKHSVAKLIGAPPGYVGYEE   534
NTDB id 63458 BTOYO RS19125 WP 000365396.1  EEAVSLVSDAVLRARAGIKDPNRPIGSFIFLGPTGVGKTELAKTLAQSLFDSEEQMIRIDMSEYMEKHAVSRLIGAPPGYVGYEE   664
NTDB id 85 BSU 00860 NP 387967.1            DEAVVAVAKAVRRARAGLKDPKRPIGSFIFLGPTGVGKTELARALAESIFGDEESMIRIDMSEYMEKHSTSRLVGSPPGYVGYDE   598
consensus                                   *!!!  ***!**!*!*!***!*!!!!!!*!*!!!!!!!!!!* !! **!***!*!!!*!!!!!!!!!****!*!*!!!!!!!*!

logo
NTDB id 601 KW2 RS02615 WP 021036805.1      AGQLTERVRRNPYSLILLDEIEKAHPDVMHMFLQILEDGRLTDAQGRTVSFKDSLIIMTSNAGTGKVEASV..GFGAA.....RE   612
NTDB id 63458 BTOYO RS19125 WP 000365396.1  GGQLTEAVRRKPYSVILLDEIEKAHPEVFNILLQMLDDGRITDSQGRTVDFKNTVIIMTSNIGSAHLLDGLEA......DGSIKE   743
NTDB id 85 BSU 00860 NP 387967.1            GGQLTEKVRRKPYSVVLLDEIEKAHPDVFNILLQVLEDGRLTDSKGRTVDFRNTILIMTSNVGASELKRNKYVGFNVQDETQNHK   683
consensus                                   *!!!!!*!!!*!!!**!!!!!!!!!!!*!****!!*!*!!!*!!**!!!!*!****!!!!!*!** *   *  **    *   **

logo
NTDB id 601 KW2 RS02615 WP 021036805.1      GRTKSVLGQLGDFFSPEFMNRFDGIIEFSALSKENLLKIVDLMLDEVNEQIGRNDIHLSVTQAAKEKLVDLGYNPAMGARPLRRT   697
NTDB id 63458 BTOYO RS19125 WP 000365396.1  ESRELVMGQLRGHFRPEFLNRVDEIILFKPLTTNEIKGIVDKIVKELQGRLADRHITVELTDSAKEFVVEAGFDPMYGARPLKRY   828
NTDB id 85 BSU 00860 NP 387967.1            DMKDKVMGELKRAFRPEFINRIDEIIVFHSLEKKHLTEIVSLMSDQLTKRLKEQDLSIELTDAAKAKVAEEGVDLEYGARPLRRA   768
consensus                                   * ** !*!*!*  !*!!!*!!*!*!!*!  !**  *  !!******** **********!**!!***** !*** *!!!!!*!

logo
NTDB id 601 KW2 RS02615 WP 021036805.1      IQENIEDSIADFYIEHPE..YKQLVADLIDDKIVISNQTQETAETTDEEVPAE   748
NTDB id 63458 BTOYO RS19125 WP 000365396.1  VQRQVETKLARELIAGTITDNSHVVVDVENNELVVHVK...............   866
NTDB id 85 BSU 00860 NP 387967.1            IQKHVEDRLSEELLRGNIHKGQHIVLDVEDGEFVVKTTAKTN...........   810
consensus                                   *!***!******** * *    **!*!*** **!*
```

X non conserved

X similar

X ≥ 50% conserved