```
logo
NTDB id 601 KW2 RS02615 WP 021036805.1      ..............MLCQNCN.....INEATIHLY.....................................TSVNGQKK....QI   26
NTDB id 37904 BACI RS06080 WP 000365371.1   MDLNQMTTKTQEAIMSAQSLAVSHHHQEVDTVHLLFTLLEEQDGLAVRIFQKMNVDIEALKQGAENLIKKKPSVTGSGAEAGKL.   84
NTDB id 85 BSU 00860 NP 387967.1            MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVES.......LIGRGQEMSQTI   78
consensus                                   *     * * *  ****!  **   *****!*!**  ** * **** *  * * *  * *    *       ** ! * *    *

logo
NTDB id 601 KW2 RS02615 WP 021036805.1      DLCQNCYQIMKSGG.............QEALFGAGNASNGNSDEPFNPFNDIFSALQGQDFNGAASNQTPPTQTGGRGPRGPQNP   98
NTDB id 37904 BACI RS06080 WP 000365371.1   YITGALQQLLVRAGKEAEKLQDDYISIEHVLLAFTEEKGDI.NQLFTRFHITKDNLLQSLMTVRG.........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 37904 BACI RS06080 WP 000365371.1   EA..TYEALEKYGRDLVAEVRAGKIDPVIGRDSEIRRVIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVKKDVPEGLKDRTI  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 37904 BACI RS06080 WP 000365371.1   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 37904 BACI RS06080 WP 000365371.1   YIEKDPALERRFQQVLAEEPTVEDTISILRGLKERFEIYHGVNIHDRAIVAASVLSDRYISDRFLPDKAIDLVDEACATIRTEID  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 37904 BACI RS06080 WP 000365371.1   SMPTELDEVTRRIMQLEIEEAALGKEKDFGSQERLKTLQRELSDLKEVASGMRAKWEKEKEDIHKVRDLREHLERLRRELEEAEG  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 37904 BACI RS06080 WP 000365371.1   NYDLNRAAELRHGKIPAIEKELKEAEEMGANNKQENRLLREEVSEEEIADIVSRWTGIPVAKLVEGEREKLLRLEQILSERVIGQ   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 37904 BACI RS06080 WP 000365371.1   EEAVSLVSDAVLRARAGIKDPNRPIGSFIFLGPTGVGKTELAKTLAQSLFDSEEQMIRIDMSEYMEKHAVSRLIGAPPGYVGYEE   664
NTDB id 85 BSU 00860 NP 387967.1            DEAVVAVAKAVRRARAGLKDPKRPIGSFIFLGPTGVGKTELARALAESIFGDEESMIRIDMSEYMEKHSTSRLVGSPPGYVGYDE   598
consensus                                   *!!!  ***!**!*!*!***!*!!!!!!*!*!!!!!!!!!!!* !! **!***!*!!!*!!!!!!!!!****!*!*!!!!!!!*!

logo
NTDB id 601 KW2 RS02615 WP 021036805.1      AGQLTERVRRNPYSLIILDEIEKAHPDVMHMFLQILEDGRLTDAQGRTVSFKDSLIIMTSNAGTGKVEASV..GFGAAR.....E   612
NTDB id 37904 BACI RS06080 WP 000365371.1   GGQLTEAVRRKPYSVILLDEIEKAHPEVFNILLQMLDDGRITDSQGRTVDFKNTVIIMTSNIGSAHLLDGL......EEDGSIKE   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 37904 BACI RS06080 WP 000365371.1   ESRELVMGQLRGHFRPEFLNRVDEIILFKPLTTNEIKGIVDKIVKELQGRLADRHITVQLTDAAKEFVVEAGFDPMYGARPLKRY   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 37904 BACI RS06080 WP 000365371.1   VQRQVETKLARELIAGTITDNSHVVVDVENNELVVHVK...............   866
NTDB id 85 BSU 00860 NP 387967.1            IQKHVEDRLSEELLRGNIHKGQHIVLDVEDGEFVVKTTAKTN...........   810
consensus                                   *!***!********* * *     **!*!***  **!*
```

X non conserved

X similar

X ≥ 50% conserved