```
logo

NTDB id 135989 RM31 RS07995 WP 001283311.1  ....MSDPTLFDYSMIKGTVEAILFQNSDNFYTVLKVDTIETNEDFD.TMPTVVGFLPNIVEGDVYTFKGQVVDHPRYGKQLKAE   80
NTDB id 355 BSU 27480 NP 390625.1           MQQHPDQLKLEEEPYLKGTVNTVIYHNDTNLYTVLKVKVTETSEAIEDKAVSVTGYFPALQEEETYTFYGKIVTHPKFGLQFQAE   85
consensus                                   *****  * ! * * *!!!!  ****!  ! !!!!!!   !! !  **  **! !* ! * ! * !!! ! *! !!**! !  !!

logo

NTDB id 135989 RM31 RS07995 WP 001283311.1  TFEKKEMPQTKEAIISYLSSDLFKGVGKKTAQNIVNTLGDNAINDILDDHSVLEKVSGLSKKKQKQIAEQISANQESEKIMIRLHD  165
NTDB id 355 BSU 27480 NP 390625.1           HFKKEIPTTKEGIIQYLSSDLFEGIGKKTAEEIVKKLGDSAINKILADASVLYDVPRLSKKKADTLAGALQRHQGLEQIMISLNQ  170
consensus                                   *! !!*! !!!*!! !!!!!!! !*!!!!!  !!  !!! !!! !! !*!!!  !* !!!!!   *!  *  *!  ! !!! !*

logo

NTDB id 135989 RM31 RS07995 WP 001283311.1  LGFGPKLSMAIYQFYLGDTLTILDRNPYQLIYDIKGIGFNKADQLARNIGIAYNDNERLKAALLYTLEEECIKQGHTYLPINVVI  250
NTDB id 355 BSU 27480 NP 390625.1           FGFGPQLSMKIYQAYESETLEKIQENPYQLVKDVEGIGFGKADELGSRMGLSGNHPERVKAAILYTLETTCLSEGHTYIETEQLI  255
consensus                                    !!!! !!! !!! !  *!!  *  !!!!!* !* !!!! !!! !*  *!*  !**!!*!!!*!!!!!  !*  !!!!**   *!

logo

NTDB id 135989 RM31 RS07995 WP 001283311.1  DLTVDVLNYQDEEVI..EPEKLDEMLQYLNEEKRLIIDNEQVAIPSLYYSEIKSVQNLFRIKTHTNKLTEIEQSDLQMHIGEIED  333
NTDB id 355 BSU 27480 NP 390625.1           IDTQSLLNQSAREGQRITEMDAANAIIALGENKDIVIEDGRCYFPSLFYAEQNVAKRVKHIASQTEYENQFPESEFLLALGELEE  340
consensus                                     !  *!!    !  ** *      *  ! ! ! **!*   *  !!!*! !      * *! **!      * !*  ***!!*!*

logo

NTDB id 135989 RM31 RS07995 WP 001283311.1  ANQVNYAASQKEALQTAINSKVMLLTGGPGTGKTTVIKGIVELYAEIHGLSLDYDDYVN.DDYPVVLAAPTGRASKRLQESTGLE  417
NTDB id 355 BSU 27480 NP 390625.1           RMDVQYAPSQKEAIQKALSSPMLLLTGGPGTGKTTVIRGIVELYGELHGVSLDPSAYKKDEAFPIVLAAPTGRAAKRMSESTGLP  425
consensus                                     !*!!*!!!!!*! !* !***!!!!!!!!!!!!!!*!!!!!!*!*!!*!!!*   !  ** *!*!!!!!!!!! !!* !!!!!*

logo

NTDB id 135989 RM31 RS07995 WP 001283311.1  AMTIHRLIGWNQDTKPEDILENEINARLIIIDEMSMVDTWLFHQFLSAVPLDAQLIFVGDEDQLPSVGPGQVFKDLIESKAIPRV  502
NTDB id 355 BSU 27480 NP 390625.1           AVTIHRLLGWNGAEGFTHTEDQPIEGKLLIIDEASMLDIWLANHLFKAIPDHIQIIIVGDEDQLPSVGPGQVLRDLLASQVIPTV  510
consensus                                   !*!!!!!*!!!    * *  ***! **!*!!!! !!*! !! **   !*! * !*! !!!!!!!!!!!!!!! *!!* !  !! !

logo

NTDB id 135989 RM31 RS07995 WP 001283311.1  NLTEVYRQQDGSSIIELAHRMKLGQKI.DITQRFHDRSFINCQANQIPTVVEKVVTSAVNKGYTMADIQVLAPMYKGNAGIKRLN  586
NTDB id 355 BSU 27480 NP 390625.1           RLTDIYRQAEGSSIVELAHQMKNGLLPNNLTAPTKDRSFIRCGGSQIKEVVEKVVANALKKGYTAKDIQVLAPMYRGKAGINELN  595
consensus                                    !!**!!! *!!!!*!!!! !! !  ** *! * *!!!!! ! * !!* !!!!!!  !* !!!!  !!!!!!!!!*! !!!  !!
```

```
logo
NTDB id 135989 RM31 RS07995 WP 001283311.1  QVLQDILNPKKKDTREIEFGDVVFRKGDKVLQLVNRPNDNIFNGDIGVIVGIFWAKENALNKDVLVVDFEGNEITFTKQDMMELT   671
NTDB id 355 BSU 27480 NP 390625.1           VMLQDILNPPKEKRRELKFGDVVYRTGDKILQLVNQPENNVFNGDIGEITSIFYAKENTEKEDMAVVSFDGNEMTFTKKDFNQFT   680
consensus                                    *!!!!!!!*!    !!* !!!!!*! !!!*!!!!! !  !*!!!!!! !  !!*!!!!    !* !! !*!!!*!!!! !    !

logo
NTDB id 135989 RM31 RS07995 WP 001283311.1  HAYCTSIHKSQGSEFPIVIMPIVKQYFRMLQRPILYTGLTRAKTSLVLLGDPEAFDIGLKTNGQARLTQLCTLLKNYFNSEDEEM   756
NTDB id 355 BSU 27480 NP 390625.1           HAYCCSIHKSQGSEFPIVVLPVVKGYYRMLRRNLLYTAITRAKKFLILCGEEEALEWGVKNNDATVRQ...TSLKNRLSVQVEEM   762
consensus                                   !!!!*!!!!!!!!!!!!!**!*!! !*!!! !**!!!**!!!!  !*!*!**!! * !*! !      ***! !!!      !!!

logo
NTDB id 135989 RM31 RS07995 WP 001283311.1  LENTATNDTGASQTTIDDQVEAPMSSNDSEEVMSDSTKTDTNVLTEATMFKIDPMINMGEITPYDFIER...   825
NTDB id 355 BSU 27480 NP 390625.1           DA................ELE....................ALQKELPFSVHDANIGMEGITPFDFMKEEQQ   798
consensus                                    *************** *!******************* *  ! *   *!* ! !  !!!*!!*  ***
```

X non conserved

X similar

X ≥ 50% conserved