```
logo
NTDB id 107899 AACH35 RS08115 WP 001283300.1  ....MSDPTLFDYSMIKGTVEAILFQNSDNFYTVLKVDTIETNEDFD.TMPTVVGFLPNIVEGDVYTFKGQVVDHPRYGK   75
NTDB id 355 BSU 27480 NP 390625.1             MQQHPDQLKLEEEPYLKGTVNTVIYHNDTNLYTVLKVKVTETSEAIEDKAVSVTGYFPALQEEETYTFYGKIVTHPKFGL   80
consensus                                     *****  * ! * * *!!!!  ****!  ! !!!!!!  !! !  **  **! !* ! * ! * !!! ! *! !!**!

logo
NTDB id 107899 AACH35 RS08115 WP 001283300.1  QLKAETFEKEMPQTKEAIISYLSSDLFKGVGKKTAQNIVNALGDNAINDILDDHSVLEKVSGLSKKKQKQIAEQISANQE  155
NTDB id 355 BSU 27480 NP 390625.1             QFQAEHFKKEIPTTKEGIIQYLSSDLFEGIGKKTAEEIVKKLGDSAINKILADASVLYDVPRLSKKKADTLAGALQRHQG  160
consensus                                     !  !!*! !!*! !!!*!! !!!!!!! !*!!!!!  !!  !!! !!! !! !*!!!  !* !!!!!   *!  *  *!

logo
NTDB id 107899 AACH35 RS08115 WP 001283300.1  SEKIMIRLHDLGFGPKLSMAIYQFYLGDTLTILDQNPYQLIYDIKGIGFNKADQLARNIGIAYNDNERLKAALLYTLEEE  235
NTDB id 355 BSU 27480 NP 390625.1             LEQIMISLNQFGFGPQLSMKIYQAYESETLEKIQENPYQLVKDVEGIGFGKADELGSRMGLSGNHPERVKAAILYTLETT  240
consensus                                      ! !!! !*  !!!! !!! !!! !  *!!  *  !!!!!* !* !!!! !!! !*  *!*  !**!!*!!!*!!!!!

logo
NTDB id 107899 AACH35 RS08115 WP 001283300.1  CIKQGHTYLPINVVIDLTVDVLNYQDEEVI..EPEKLDEMLQYLNEEKRLIIDNEQVAIPSLYYSEIKSVQNLFRIKTHT  313
NTDB id 355 BSU 27480 NP 390625.1             CLSEGHTYIETEQLIIDTQSLLNQSAREGQRITEMDAANAIIALGENKDIVIEDGRCYFPSLFYAEQNVAKRVKHIASQT  320
consensus                                     !*  !!!!**   *!  !  *!!    !  ** *     *  ! ! ! **!*   *  !!!*! !      * *! **!

logo
NTDB id 107899 AACH35 RS08115 WP 001283300.1  NKLTEIEQSDLQMHIGEIEDANQVNYAASQKEALQTAINSKVMLLTGGPGTGKTTVIKGIVELYAEIHGLSLDYDDYVN.  392
NTDB id 355 BSU 27480 NP 390625.1             EYENQFPESEFLLALGELEERMDVQYAPSQKEAIQKALSSPMLLLTGGPGTGKTTVIRGIVELYGELHGVSLDPSAYKKD  400
consensus                                           * !*  ***!!*!*   !*!!*!!!!!*! !* !***!!!!!!!!!!!!!!*!!!!!*!*!!*!!!*  !  *

logo
NTDB id 107899 AACH35 RS08115 WP 001283300.1  DDYPVVLAAPTGRASKRLQESTGLEAMTIHRLIGWNQDTKPEDILENEINARLIIIDEMSMVDTWLFHQFLSAVPLDAQL  472
NTDB id 355 BSU 27480 NP 390625.1             EAFPIVLAAPTGRAAKRMSESTGLPAVTIHRLLGWNGAEGFTHTEDQPIEGKLLIIDEASMLDIWLANHLFKAIPDHIQI  480
consensus                                     * *!*!!!!!!!!! !!* !!!!!*!*!!!!!*!!!    * *  ***! **!*!!!! !!*! !! **   !*! * !*

logo
NTDB id 107899 AACH35 RS08115 WP 001283300.1  IFVGDEDQLPSVGPGQVFKDLIESKAIPRVNLTEVYRQQDGSSIIELAHRMKLGQKI.DITQRFHDRSFINCQANQIPTV  551
NTDB id 355 BSU 27480 NP 390625.1             IIVGDEDQLPSVGPGQVLRDLLASQVIPTVRLTDIYRQAEGSSIVELAHQMKNGLLPNNLTAPTKDRSFIRCGGSQIKEV  560
consensus                                     ! !!!!!!!!!!!!!!!! *!!* !  !! ! !!**!!! *!!!!*!!!! !! !  ** *! * *!!!!! ! * !!* !
```

```
logo
NTDB id 107899 AACH35 RS08115 WP 001283300.1  VEKVVTSAVNKGYTMADIQVLAPMYKGNAGIKRLNQVLQDILNPKKKKDTREIEFGDVVFRKGDKVLQLVNRPNDNIFNGD   631
NTDB id 355 BSU 27480 NP 390625.1             VEKVVANALKKGYTAKDIQVLAPMYRGKAGINELNVMLQDILNPPKEKRRELKFGDVVYRTGDKILQLVNQPENNVFNGD   640
consensus                                     !!!!!  !* !!!!  !!!!!!!!!!*! !!!  !! *!!!!!!!*!   !!* !!!!!*! !!!*!!!!! !  !*!!!!

logo
NTDB id 107899 AACH35 RS08115 WP 001283300.1  IGVIVGIFWAKENALNKDVLVVDFEGNEITFTKQDMMELTHAYCTSIHKSQGSEFPIVIMPIVKQYFRMLQRPILYTGLT   711
NTDB id 355 BSU 27480 NP 390625.1             IGEITSIFYAKENTEKEDMAVVSFDGNEMTFTKKDFNQFTHAYCCSIHKSQGSEFPIVVLPVVKGYYRMLRRNLLYTAIT   720
consensus                                     !! !  !!*!!!!    !* !! !*!!!*!!!! !    !!!!!*!!!!!!!!!!!!!**!*!! !*!!! !**!!!**!

logo
NTDB id 107899 AACH35 RS08115 WP 001283300.1  RAKTSLVLLGDPEAFDIGLKTNGQARLTQLCTLLKNYFNSEDEEMLENTATNDTGASQTTIDDQVEAPMPSNDSEEVTSD   791
NTDB id 355 BSU 27480 NP 390625.1             RAKKFLILCGEEEALEWGVKNNDATVRQ...TSLKNRLSVQVEEMDA................ELE..............   767
consensus                                     !!!  !*!*!**!! * !*! !      ***! !!!      !!!  *************** *!**************

logo
NTDB id 107899 AACH35 RS08115 WP 001283300.1  STKTDTNVLTEATMFKIDPMINMGEITPYDFIER...   825
NTDB id 355 BSU 27480 NP 390625.1             ......ALQKELPFSVHDANIGMEGITPFDFMKEEQQ   798
consensus                                     ****** *  ! *   *!* ! !  !!!*!!*  ***
```

X non conserved

X similar

X $\geq$ 50% conserved