```
logo

NTDB id 346841 EXW34 RS21325 WP 002190744.1  MGNQHAMDLFEEEKKFIKAQVLHTIFHNEENLYSVVSMKVIETNETYDEKKVMINGHFPRMHEDEVFTLTGHFKDHPKYG   80
NTDB id 355 BSU 27480 NP 390625.1            .MQQHPDQLKLEEEPYLKGTVNTVIYHNDTNLYTVLKVKVTETSEAIEDKAVSVTGYFPALQEEETYTFYGKIVTHPKFG   79
consensus                                    * *!!*   !   !! ***!* ! * !*!!* !!!*!* *!! !! !   **! ! * !*!! **!*! *!   !*    !!!*!

logo

NTDB id 346841 EXW34 RS21325 WP 002190744.1  KQYLVETFKKELPQTKAGMVQYLASDLFKGIGKRTAEKIVDHLGEHAISKIMDDPDALSGVV..NKQKAQEIYETIIEHQ  158
NTDB id 355 BSU 27480 NP 390625.1            LQFQAEHFKKEIPTTKEGIIQYLSSDLFEGIGKKTAEEIVKKLGDSAINKILADASVLYDVPRLSKKKADTLAGALQRHQ  159
consensus                                     !*  !*!!!!*! !! !**!!! !!!! !!!!*!!! !! *!!**!! !!* !*  !  !*** ! !!  *   *  !!

logo

NTDB id 346841 EXW34 RS21325 WP 002190744.1  GLEKVMSFLNGYGFGTKLSIKIYQQYKEMTLEVIRNNPYKLIEEVDGIGFGRADDIGRAIGITGNHDDRVRAGCFYTLEN  238
NTDB id 355 BSU 27480 NP 390625.1            GLEQIMISLNQFGFGPQLSMKIYQAYESETLEKIQENPYQLVKDVEGIGFGKADELGSRMGLSGNHPERVKAAILYTLET  239
consensus                                    !!! *!  !! *!!!* !!*!!!! !   !!! !  !!! !* *!*!!!!!*!!**!  *!**!!!**!!*!** !!!!

logo

NTDB id 346841 EXW34 RS21325 WP 002190744.1  ISLQLGHVYMEKGQLVRETMSLLNNQE...GRVTEEDIVGCVEMMQSEGKVIIEEERVYLASLFYSEKGVVKSIRRLMNQ  315
NTDB id 355 BSU 27480 NP 390625.1            TCLSEGHTYIETEQLIIDTQSLLNQSAREGQRITEMDAANAIIALGENKDIVIEDGRCYFPSLFYAEQNVAKRVKHIASQ  319
consensus                                     *!  !! !*!  !!* *! !!!!*  *** !*!! !   **  *     **!!* !*! *!!!! !  ! ! ****  !

logo

NTDB id 346841 EXW34 RS21325 WP 002190744.1  E.ETPAFPEAEVLKTLGEIEEQLKVQYAPLQQEAVQTALHKPMMLLTGGPGTGKTTVIKGIVEMYASLHGVSLNPNEYSD  394
NTDB id 355 BSU 27480 NP 390625.1            TEYENQFPESEFLLALGELEERMDVQYAPSQKEAIQKALSSPMLLLTGGPGTGKTTVIRGIVELYGELHGVSLDPSAYKK  399
consensus                                     *  * !!! ! !  !!!*!! * !!!!! ! !!*! !!* !!*!!!!!!!!!!!!!!*!!!!*!* !!!!!! !  !

logo

NTDB id 346841 EXW34 RS21325 WP 002190744.1  DNPFPILLTAPTGRAAKRMSESTGLPACTIHRLLGWTPEGSFQRNETDPIQGKLLIIDEFSMVDIWLANQLFKSLPTNIQ  474
NTDB id 355 BSU 27480 NP 390625.1            DEAFPIVLAAPTGRAAKRMSESTGLPAVTIHRLLGWNGAEGFTHTEDQPIEGKLLIIDEASMLDIWLANHLFKAIPDHIQ  479
consensus                                    ! *!!!*! !!!!!!!!!!!!!!!!!!*!!!!!!!! *   ! * !  !! !!!!!!!! !!*!!!!!!*!!! *! *!!

logo

NTDB id 346841 EXW34 RS21325 WP 002190744.1  VIVVGDEDQLPSVGPGQVLKDLLNAGAIPTVKLTEIYRQAEGSSVIQLAHAIKDGTLPPDLAQNKKDRSFISCAGAQIVE  554
NTDB id 355 BSU 27480 NP 390625.1            IIIVGDEDQLPSVGPGQVLRDLLASQVIPTVRLTDIYRQAEGSSIVELAHQMKNGLLPNNLTAPTKDRSFIRCGGSQIKE  559
consensus                                    *!*!!!!!!!!!!!!!!!!*!!!    !!!!*!!*!!!!!!!!!** !!! *! ! !!* !  * !!!!!! !*! !! !
```

```
logo
NTDB id 346841 EXW34 RS21325 WP 002190744.1  VVKKVCENAKTKGFSARDVQVLAPMYRGPAGINVLNEALQEVFNPKKEKSKEIAYGDVVYRRGDKVLQLVNQPESQVFNG   634
NTDB id 355 BSU 27480 NP 390625.1            VVEKVVANALKKGYTAKDIQVLAPMYRGKAGINELNVMLQDILNPPKEKRRELKFGDVVYRTGDKILQLVNQPENNVFNG   639
consensus                                    !! !!* !!  !!**!*!*!!!!!!!!!*!!!! !!  !!** !!*!!! *!* *!!!!!! !!!*!!!!!!!! *!!!!

logo
NTDB id 346841 EXW34 RS21325 WP 002190744.1  DIGEIVSVFYAKENVEQQDMIIVSFDGIEVTYTKPDLNQITHAYCCSIHKSQGSEFPIVIMPIVKSYYRMLRRNLIYTGI   714
NTDB id 355 BSU 27480 NP 390625.1            DIGEITSIFYAKENTEKEDMAVVSFDGNEMTFTKKDFNQFTHAYCCSIHKSQGSEFPIVVLPVVKGYYRMLRRNLLYTAI   719
consensus                                    !!!!! !*!!!!!! !  !! *!!!!! !*!*!!*! !! !!!!!!!!!!!!!!!!!!!**!*!! !!!!!!!!!*!!*!

logo
NTDB id 346841 EXW34 RS21325 WP 002190744.1  TRSKKFLIICGEEAAFQSGVNRLDDAMRQTTLAGRLQESQGEVQ..........MVTVNGEEMDVENISPYDFM.....   778
NTDB id 355 BSU 27480 NP 390625.1            TRAKKFLILCGEEEALEWGVKNNDATVRQTSLKNRLSVQVEEMDAELEALQKELPFSVHDANIGMEGITPFDFMKEEQQ   798
consensus                                    !! !!!!!*!!!! !   !!   !  *!!!*!  !!     !* *********** *!*   * *!  !*!*!!!*****
```

X non conserved

X similar

X $\geq$ 50% conserved