```
logo
NTDB id 1077650 ACJED4 RS09835 WP 171465622.1  MQEHPDQMKLEDEPFLKGTVQAVIFHNESNLYSVLKVKVIETSENLEEKTASVTGYFPALHEEETYTFYGKVTSHPKFGE   80
NTDB id 355 BSU 27480 NP 390625.1              MQQHPDQLKLEEEPYLKGTVNTVIYHNDTNLYTVLKVKVTETSEAIEDKAVSVTGYFPALQEEETYTFYGKIVTHPKFGL   80
consensus                                      !! !!!!*!!!*!!*!!!!!* !!*!!**!!!*!!!!!! !!!! *!*!  !!!!!!!!!*!!!!!!!!!!* *!!!!!

logo
NTDB id 1077650 ACJED4 RS09835 WP 171465622.1  QFQATHFQKEVPTTKQGIIHYLSSDLFEGIGKKTAEEIVGKLGNQTLHQIMRDPSVLYDVPRLSKKKADKLAAALQEHQG  160
NTDB id 355 BSU 27480 NP 390625.1              QFQAEHFKKEIPTTKEGIIQYLSSDLFEGIGKKTAEEIVKKLGDSAINKILADASVLYDVPRLSKKKADTLAGALQRHQG  160
consensus                                      !!!! !! !!*!!!! !!!*!!!!!!!!!!!!!!!!!! !!!   ** !* !*!!!!!!!!!!!!!!! !!*!!! !!!

logo
NTDB id 1077650 ACJED4 RS09835 WP 171465622.1  LEQIMISLNQYGFGPQLSMKIYQAYESETLQKIEENPYQLVKDVEGIGFIKADELGARTGISGNDPERIRAALLYTVETA  240
NTDB id 355 BSU 27480 NP 390625.1              LEQIMISLNQFGFGPQLSMKIYQAYESETLEKIQENPYQLVKDVEGIGFGKADELGSRMGLSGNHPERVKAAILYTLETT  240
consensus                                      !!!!!!!!!!*!!!!!!!!!!!!!!!!!!!! !! !!!!!!!!!!!!!!!! !!!!!! ! !*!!!*!!!**!!*!!!*!!

logo
NTDB id 1077650 ACJED4 RS09835 WP 171465622.1  SLQDGHTYIQTKDLIVETRKLLNQTGN.DYKVTEMDVANQIIALGEGKDMIIEDERCYHPSLFYAEQSVAKRIQKIVAQT  319
NTDB id 355 BSU 27480 NP 390625.1              CLSEGHTYIETEQLIIDTQSLLNQSAREGQRITEMDAANAIIALGENKDIVIEDGRCYFPSLFYAEQNVAKRVKHIASQT  320
consensus                                      *! *!!!!! !  !!**!  !!!!** *  **!!!! !! !!!!!! !!**!!! !!!*!!!!!!!! !!!!* *!  !!

logo
NTDB id 1077650 ACJED4 RS09835 WP 171465622.1  EYADQFPESEFLLALGELEERLGVQYAPTQKEAIQKALMSPMLLLTGGPGTGKTTVIKGIVELYSDLHGVSLDPGDYKKD  399
NTDB id 355 BSU 27480 NP 390625.1              EYENQFPESEFLLALGELEERMDVQYAPSQKEAIQKALSSPMLLLTGGPGTGKTTVIRGIVELYGELHGVSLDPSAYKKD  400
consensus                                      !!  !!!!!!!!!!!!!!!!!* !!!!!*!!!!!!!!! !!!!!!!!!!!!!!!!!!*!!!!!! *!!!!!!!!  !!!!

logo
NTDB id 1077650 ACJED4 RS09835 WP 171465622.1  EAFPFVLAAPTGRAAKRMTESTGLPAVTIHRLLGWNGSEGFSHDEDQPIEGKLVIIDESSMLDIWLANHLFKAIPDHIQV  479
NTDB id 355 BSU 27480 NP 390625.1              EAFPIVLAAPTGRAAKRMSESTGLPAVTIHRLLGWNGAEGFTHTEDQPIEGKLLIIDEASMLDIWLANHLFKAIPDHIQI  480
consensus                                      !!!! !!!!!!!!!!!!!*!!!!!!!!!!!!!!!!!! !!!*! !!!!!!!!!*!!!! !!!!!!!!!!!!!!!!!!!!*

logo
NTDB id 1077650 ACJED4 RS09835 WP 171465622.1  IMVGDEHQLPSVGPGQVLRDLLASQAIPAVTLTDIYRQAEGSTIVELAHDMKNGVLPKDITARSKDRSFIQCSSDQMKEV  559
NTDB id 355 BSU 27480 NP 390625.1              IIVGDEDQLPSVGPGQVLRDLLASQVIPTVRLTDIYRQAEGSSIVELAHQMKNGLLPNNLTAPTKDRSFIRCGGSQIKEV  560
consensus                                      !*!!!!*!!!!!!!!!!!!!!!!!!! !! ! !!!!!!!!*!!*!!!!!! !!!!*!!  *!!**!!!!!! !   !*!!!
```

```
logo

NTDB id 1077650 ACJED4 RS09835 WP 171465622.1  IEKVVSNAAQKGYSAKDIQVLAPMYKGKAGINELNKMLQQILNPKKPKGREIPFGDVVYRTGDKVLQLVNQPENNIFNGD   639
NTDB id 355 BSU 27480 NP 390625.1              VEKVVANALKKGYTAKDIQVLAPMYRGKAGINELNVMLQDILNPPKEKRRELKFGDVVYRTGDKILQLVNQPENNVFNGD   640
consensus                                      *!!!! !!  !!!*!!!!!!!!!!!*!!!!!!!!! !!! !!!!*!*! !!**!!!!!!!!!!!*!!!!!!!!!!*!!!!

logo

NTDB id 1077650 ACJED4 RS09835 WP 171465622.1  IGEIVSIFYAKENTEKEDMAVISFDGNEITFTKKDFHQFTHAYCCSIHKSQGSEFPIVVLPVVRSYYRMLRRNLLYTAIT   719
NTDB id 355 BSU 27480 NP 390625.1              IGEITSIFYAKENTEKEDMAVVSFDGNEMTFTKKDFNQFTHAYCCSIHKSQGSEFPIVVLPVVKGYYRMLRRNLLYTAIT   720
consensus                                      !!!! !!!!!!!!!!!!!!!!*!!!!!!!*!!!!!!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!* !!!!!!!!!!!!!!!

logo

NTDB id 1077650 ACJED4 RS09835 WP 171465622.1  RSKKFLILCGEESALEWGVKNNEDSLRQTSLTMRLTETEEVMDAELAALQKELPFSVHDANIGMEGITPFDFMQE...   794
NTDB id 355 BSU 27480 NP 390625.1              RAKKFLILCGEEEALEWGVKNNDATVRQTSLKNRLSVQVEEMDAELEALQKELPFSVHDANIGMEGITPFDFMKEEQQ   798
consensus                                      ! !!!!!!!!!! !!!!!!!!!* **!!!!!  !!*   ! !!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!! !***
```

X non conserved

X similar

X $\geq$ 50% conserved