```
logo

NTDB id 23731 BLI RS14225 WP 003183932.1  MQRHNPDQIEMEEASFVKGTVTAVIYHNETNLYTVLKVKVEETSESFEDKTVSVTGYFPLLIHEDDIYTFYGKTASHPKFGLQFQA   85
NTDB id 355 BSU 27480 NP 390625.1         .MQQHPDQLKLEEEPYLKGTVNTVIYHNDTNLYTVLKVKVTETSEAIEDKAVSVTGYFPALQEEETYTFYGKIVTHPKFGLQFQA   84
consensus                                 *  **!!!* *!! ***!!!!  !!!!!*!!!!!!!!!!! !!!!  !!! !!!!!!!! **!** !!!!!!  *!!!!!!!!!!

logo

NTDB id 23731 BLI RS14225 WP 003183932.1  DHFKKEVPTTKEGVIQYLASDLFEGIGKKTAEEIVNKLGEGAINKILSDGAVLYDVPKLSKKKADKLAAALQQHQGLEQIMISLS   170
NTDB id 355 BSU 27480 NP 390625.1         EHFKKEIPTTKEGIIQYLSSDLFEGIGKKTAEEIVKKLGDSAINKILADASVLYDVPRLSKKKADTLAGALQRHQGLEQIMISLN   169
consensus                                 *!!!!!*!!!!!!*!!!! !!!!!!!!!!!!!!!! !!!* !!!!!! !* !!!!!!*!!!!!!! !!*!!! !!!!!!!!!!!

logo

NTDB id 23731 BLI RS14225 WP 003183932.1  EFGFGPQLSMKIYQAYEAETLDKIRENPYQLVKDVEGIGFIKADELGGRMGISGKHEERIKAAILYTVEATCLQEGHTYIETRQL   255
NTDB id 355 BSU 27480 NP 390625.1         QFGFGPQLSMKIYQAYESETLEKIQENPYQLVKDVEGIGFGKADELGSRMGLSGNHPERVKAAILYTLETTCLSEGHTYIETEQL   254
consensus                                  !!!!!!!!!!!!!!!! !!!*!! !!!!!!!!!!!!!!! !!!!!! !!!*!! !*!!*!!!!!!!*! !!! !!!!!!!! !!

logo

NTDB id 23731 BLI RS14225 WP 003183932.1  IIETQKLLNQSAGD.EKVTEMDVADAIISLGEQKELFIEDERCYYPSLYYAEQSFAKRVQKIAGQTEYDDQFPESEFLLALGELE   339
NTDB id 355 BSU 27480 NP 390625.1         IIDTQSLLNQSAREGQRITEMDAANAIIALGENKDIVIEDGRCYFPSLFYAEQNVAKRVKHIASQTEYENQFPESEFLLALGELE   339
consensus                                 !!*!! !!!!!! ** **!!!! ! !!! !!!*!** !!! !!!*!!!*!!!!  !!!! *!! !!!!* !!!!!!!!!!!!!!!

logo

NTDB id 23731 BLI RS14225 WP 003183932.1  ERMKVQYAPSQKEAIQKALMSPMLLLTGGPGTGKTTVIRGIVELYSELHGLSLNPADYKKDETFPFVLAAPTGRAAKRMSESTGL   424
NTDB id 355 BSU 27480 NP 390625.1         ERMDVQYAPSQKEAIQKALSSPMLLLTGGPGTGKTTVIRGIVELYGELHGVSLDPSAYKKDEAFPIVLAAPTGRAAKRMSESTGL   424
consensus                                 !!! !!!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!! !!!!*!! ! !!!!! !! !!!!!!!!!!!!!!!!!!!!!

logo

NTDB id 23731 BLI RS14225 WP 003183932.1  PAVTIHRLLGWNGAEGFTHDEDNPIEGRLLIIDETSMLDIWLANQLFKAIPDRIQVIMVGDEDQLPSVGPGQVLRDLLASNVIPS   509
NTDB id 355 BSU 27480 NP 390625.1         PAVTIHRLLGWNGAEGFTHTEDQPIEGKLLIIDEASMLDIWLANHLFKAIPDHIQIIIVGDEDQLPSVGPGQVLRDLLASQVIPT   509
consensus                                 !!!!!!!!!!!!!!!!!!! !!*!!!!*!!!!!! !!!!!!!!!*!!!!!!!*!!*!*!!!!!!!!!!!!!!!!!!!!!!*!!!*

logo

NTDB id 23731 BLI RS14225 WP 003183932.1  VRLTDIYRQAEGSSIVELAHEMKQGKLPENLAAPTKDRSFIRCRQQQIKEVVEKVVKNALQKGYSARDIQVLAPMYRGAAGINEL   594
NTDB id 355 BSU 27480 NP 390625.1         VRLTDIYRQAEGSSIVELAHQMKNGLLPNNLTAPTKDRSFIRCGGSQIKEVVEKVVANALKKGYTAKDIQVLAPMYRGKAGINEL   594
consensus                                 !!!!!!!!!!!!!!!!!!!! !!*! !! !! !!!!!!!!!!!   !!!!!!!!!! !!!  !!!*!*!!!!!!!!!!! !!!!!!
```

```
logo
NTDB id 23731 BLI RS14225 WP 003183932.1  NALLQGILNPPKPKGREMKYGDVVYRTGDKVLQLVNQPEHNVFNGDMGEIVSIFYAKENTEKEDMAVVSFDGNEITFAKKDFNQF   679
NTDB id 355 BSU 27480 NP 390625.1         NVMLQDILNPPKEKRRELKFGDVVYRTGDKILQLVNQPENNVFNGDIGEITSIFYAKENTEKEDMAVVSFDGNEMTFTKKDFNQF   679
consensus                                 !  *!! !!!!!!*! !!*!*!!!!!!!!!!*!!!!!!!!*!!!!!!*!!! !!!!!!!!!!!!!!!!!!!!!!!!*!! !!!!!!!

logo
NTDB id 23731 BLI RS14225 WP 003183932.1  THAYCCSIHKSQGSEFPIVILPVVKSYYRMLRRNLLYTAITRSKKFLILCGEEEALEWGVKNKESSERQTSLKRRLQQAAHEEDE   764
NTDB id 355 BSU 27480 NP 390625.1         THAYCCSIHKSQGSEFPIVVLPVVKGYYRMLRRNLLYTAITRAKKFLILCGEEEALEWGVKNNDATVRQTSLKNRLSVQVEEMDA   764
consensus                                 !!!!!!!!!!!!!!!!!!!!*!!!!!! !!!!!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!!! * * !!!!!! !!    *! !

logo
NTDB id 23731 BLI RS14225 WP 003183932.1  ELMALQKELPFSVYDANIGMEGITPFDFMEKEAE   798
NTDB id 355 BSU 27480 NP 390625.1         ELEALQKELPFSVHDANIGMEGITPFDFMKEEQQ   798
consensus                                 !! !!!!!!!!!!*!!!!!!!!!!!!!!!!  !
```

X non conserved
X similar
X $\geq$ 50% conserved