```
logo

NTDB id 1094315 ACMUKE RS00175 WP 001631036.1  MEEAIAYVRQSTLKQQSLATQKSLIMDTAKQYGWSNVAFYDDKKTGRHTKRSGYQKMVEIITSGKCKVLCCYRLNRLHRN   80
NTDB id 1 SACOL RS00225 WP 000806247.1         MKQAIGYLRQSTTKQQSLAAQKQTIEALAKKHNIQYITFYSDKQSGRTDKRNGYQQITELIQQGQCDVLCCYRLNRLHRN   80
NTDB id 10 SA RS00435 WP 000815646.1           MKQVIGYLRQSTMKQQSLAAQKQAIEAIAEKHHIQHINFYSDKQSGRKDNRSGYRQMTQLIQQGQCDILCCYRLNRLHRN   80
consensus                                      !***!*!*!!!!*!!!!!!*!!* !***!*** ** * !!*!!**!! **!*!!******!**!*!**!!!!!!!!!!!!

logo

NTDB id 1094315 ACMUKE RS00175 WP 001631036.1  LKNAIQFFEICKKHHITIISVNDGYFDLSKEFDCFRLNILMSLAEMESNNISEQTKNGIREKAKQGKLITTHAPFGYRYR  160
NTDB id 1 SACOL RS00225 WP 000806247.1         LKNALKLMKLCQKYHVHILSVHDGYFDMDKAFDRLKLNIFISLAELESDNIGEQVKNGIKEKAKQGKMITTHAPFGYHYH  160
NTDB id 10 SA RS00435 WP 000815646.1           LKNALKLIKLCQTYHVHILSVHDGYFDMDQAFDRFKLNIFISLAELESDNIGEQVRNGLQEKAKQGRLITTHAPFGYEYH  160
consensus                                      !!!!***!***!***!**!*!!*!!!!!****!!***!!!**!!!!*!!*!!*!!**!!*!!!!!!**!!!!!!!!!!  !*

logo

NTDB id 1094315 ACMUKE RS00175 WP 001631036.1  KGCFVVQEEEAYTVKSVYRWYLQGLGYKKISQHLDSNPNLIPRKPYQVRNILLNPNYCGRVINKYGTFNDIVPPIIDIDT  240
NTDB id 1 SACOL RS00225 WP 000806247.1         NGTFTIDTVKAPTVKAVFNYYLQGYGYKKIAQYLEADDKFINRKPYQVRNIILNPNYCGRVINQYGQYENMFPAIVSTTI  240
NTDB id 10 SA RS00435 WP 000815646.1           NGAFIINQNESPTVKAVFNYYIKGHGYKKIAQLLEEDNTYINRQPYQVRNIIINPNYCGRVNNQYGQFDNMFPSIVSTSI  240
consensus                                      *! !***  ***!!!*!***!**! !!!!!*! !* *  *!*!*!!!!!!!**!!!!!!!!!*!*!!******! !*****

logo

NTDB id 1094315 ACMUKE RS00175 WP 001631036.1  FEEAQERRIHKQLNRSNSRNKLKRRIKCPYCQSTLTNLTIKKENYSLRYYVCPKNMNDAYRTCPFKSINAPELESEVLDT  320
NTDB id 1 SACOL RS00225 WP 000806247.1         YEEAQVTRTQKPVKRKPSENQLKQKIKCPYCDSTLTNMTIRKKHHTLRYYVCPQNMNASRFVCEFKGINAQELETSVLAT  320
NTDB id 10 SA RS00435 WP 000815646.1           YEQAQRLRSQKQIKQTSSDNQLKQKIKCPCCNTTLTNMTVRKKNHTLRYYVCPKNMNASRFVCDFKGINAQTLEDKVLEV  320
consensus                                      *!*!!  !**!***** !*!*!!**!!!!*!**!!!!*!**!****!!!!!!!*!!!*****!*!!*!!!**!!* !!**

logo

NTDB id 1094315 ACMUKE RS00175 WP 001631036.1  CKKYFEEQSFHKRLNNTILKVLKQQQMKHKETHLTQEQLIEKLAQNRIDVKTFKRLSASCKSE.ENYSTYSTYQIDDKLK  399
NTDB id 1 SACOL RS00225 WP 000806247.1         CQDFFQNQQLYSKINHTIQQRLKRQRDIETKTTLNHEQLIEKLAQDKIDAETFREQTQSLRQQSKPISSISTYQIRKAFQ  400
NTDB id 10 SA RS00435 WP 000815646.1           CKDFYQNQRIYTKIKGAIDKRIKRQRNIEKHHTLTQEQLIEKLAQGIIDAETFREQTQSLRQQPQRTTSINGHQIQHTIQ  400
consensus                                      !******! ****** *! ***!*!* *** **!**!!!!!!!!! *!!**!!*****!****    ******!!   **

logo

NTDB id 1094315 ACMUKE RS00175 WP 001631036.1  YVIKNKITLQDIAPFIDCIKITQTKQLQGIYFKNSPLNIVEQSHLITPERNEVI   453
NTDB id 1 SACOL RS00225 WP 000806247.1         NIIQQRFTLNMLYPYIDEINISKNKSLAGIYFKNEPLNIVKQTMELSIV.....   449
NTDB id 10 SA RS00435 WP 000815646.1           NIIQKRFTLNILYPYIETIHITKDKNLIGIYFKNEPLNIVNQTMQSSIA.....   449
consensus                                      **!****!!****!*!* ! !** !*! !!!!!!*!!!!! !** ***
```

X non conserved

X similar

X ≥ 50% conserved