```
logo

NTDB id 10 SA RS00435 WP 000815646.1          MKQVIGYLRQSTMKQQSLAAQKQAIEAIAEKHHIQHINFYSDKQSGRKDNRSGYRQMTQLIQQGQCDILCCYRLNRLHRN   80
NTDB id 150206 SAHC1335 RS00425 WP 000816499.1 MKRAIGYLRQSTTKQQSLPAQKQAIELLAPKHNIQNIQYISDKQSGRTDNRTGYQQVTERIQQRQCDVLCCYRLNRLHRN   80
NTDB id 1 SACOL RS00225 WP 000806247.1        MKQAIGYLRQSTTKQQSLAAQKQTIEALAKKHNIQYITFYSDKQSGRTDKRNGYQQITELIQQGQCDVLCCYRLNRLHRN   80
consensus                                     !!**!!!!!!!!*!!!!!*!!!!*!!**! !!*!! !***!!!!!!!*!*!*!!*!*!**!!!*!!!!*!!!!!!!!!!!!

logo

NTDB id 10 SA RS00435 WP 000815646.1          LKNALKLIKLCQTYHVHILSVHDGYFDMDQAFDRFKLNIFISLAELESDNIGEQVRNGLQEKAKQGRLITTHAPFGYEYH  160
NTDB id 150206 SAHC1335 RS00425 WP 000816499.1 LKNALKLMKLCQKYHVHILSVHDGYFDMDKAFDRLKLNIFMSLAELESDNIGEQVKNGLREKAKQGKLITTHAPFGYHYQ  160
NTDB id 1 SACOL RS00225 WP 000806247.1        LKNALKLMKLCQKYHVHILSVHDGYFDMDKAFDRLKLNIFISLAELESDNIGEQVKNGIKEKAKQGKMITTHAPFGYHYH  160
consensus                                     !!!!!!!*!!!!*!!!!!!!!!!!!!!!!!*!!!!*!!!!!*!!!!!!!!!!!!!!!*!!**!!!!!!**!!!!!!!!!*!*

logo

NTDB id 10 SA RS00435 WP 000815646.1          NGAFIINQNESPTVKAVFNYYIKGHGYKKIAQYLEEDNTYINRQPYQVRNIIINPNYCGRVNNQYGQFDNMFPSIVSTSI  240
NTDB id 150206 SAHC1335 RS00425 WP 000816499.1 NGTFIINNDESPTVKAVFNYYLQGYGYKKIAQYLEDDNKLITRKPYQVRNIIMNPNYCGRVINQYGQYNNMVPPIVSATK  240
NTDB id 1 SACOL RS00225 WP 000806247.1        NGTFTIDTVKAPTVKAVFNYYLQGYGYKKIAQYLEADDKFINRKPYQVRNIILNPNYCGRVINQYGQYENMFPAIVSTTI  240
consensus                                     !!*!*!** **!!!!!!!!!!**!*!!!!!!!*!!*!***!*!*!!!!!!!!!*!!!!!!!!*!!!!!**!!*! !!!***

logo

NTDB id 10 SA RS00435 WP 000815646.1          YEQAQRLRSQKQIKQTSSDNQLKQKIKCPCCNTTLTNMTVRKKNHTLRYYVCPKNMNASRFVCDFKGINAQTLEDKVLEV  320
NTDB id 150206 SAHC1335 RS00425 WP 000816499.1 YEHAQAIRNKKQLHCIPSENQLKQKIKCPCCDSTLTNMTIRKK.HTLRYYICPKNMNESRFVCSFKGINAQKLEVQVLAT  319
NTDB id 1 SACOL RS00225 WP 000806247.1        YEEAQVTRTQKPVKRKPSENQLKQKIKCPYCDSTLTNMTIRKKHHTLRYYVCPQNMNASRFVCEFKGINAQELETSVLAT  320
consensus                                     !! !! *!**!***  *!*!!!!!!!!!!*!**!!!!!!*!!! !!!!!!*!!*!!!*!!!!!*!!!!!!! !!  !!**

logo

NTDB id 10 SA RS00435 WP 000815646.1          CKDFYQNQRIYTKIKGAIDKRIKRQRNIEKHHTLTQEQLIEKLAQGIIDAETFREQTQSLRQQPQRTTSINGHQIQHTIQ  400
NTDB id 150206 SAHC1335 RS00425 WP 000816499.1 CQNFFQNQQLYSKINNAIHQRLKKQRVIEAKSTLTQEQLIDKLAKGMIDAESFRKQTHLMNQKHKTISSISDNQLQTSLQ  399
NTDB id 1 SACOL RS00225 WP 000806247.1        CQDFFQNQQLYSKINHTIQQRLKRQRDIETKTTLNHEQLIEKLAQDKIDAETFREQTQSLRQQSKPISSISTYQIRKAFQ  400
consensus                                     !**!*!!!**!*!!* *! *!*!*!! !! **!!**!!!!*!!!**!!!!*!!*!!****!* * **!!*  !** **!

logo

NTDB id 10 SA RS00435 WP 000815646.1          NIIQKRFTLNILYPYIETIHITKDKNLIGIYFKNEPLNIVNQTMQSSIA   449
NTDB id 150206 SAHC1335 RS00425 WP 000816499.1 KVIQKSFTLNMLHPYIDEIRITKNKALVGIYFKNEPLNIVNQTSQSSIA   448
NTDB id 1 SACOL RS00225 WP 000806247.1        NIIQQRFTLNMLYPYIDEINISKNKSLAGIYFKNEPLNIVKQTMELSIV   449
consensus                                     **!!**!!!!*!*!!!**! !*!*! !*!!!!!!!!!!!!*!!***!!*
```

X non conserved

X similar

X $\geq$50% conserved