```
logo

NTDB id 1148893 DG022 RS00080 WP 078073179.1  MQQLKQKRVGIYVRVSTEIQSTEGYSIDGQINQIREYCDFNNFGVVDVYADRGISGKSMNRPELQRLLKDANEGHIDSVM   80
NTDB id 11 SA RS00430 WP 001186602.1          MQQLKTKRVGIYVRVSTEMQSTEGYSIDGQINQIKEYCDFHHFEVKDIYADRGISGKSMNRPELQRILKDAKEGYIDCVM   80
consensus                                     !!!!! !!!!!!!!!!!!*!!!!!!!!!!!!!!!!*!!!!!**! ! !*!!!!!!!!!!!!!!!!!!!*!!!! !!*!!*!!

logo

NTDB id 1148893 DG022 RS00080 WP 078073179.1  VYKTNRLARNTSDLLKIVEDLHKQNVEFFSLSERMEVNTSSGKLMLQILASFSEFERNNIVENVFMGQTRRAQEGYYQGN  160
NTDB id 11 SA RS00430 WP 001186602.1          VYKTNRLARNTSDLLKIVEDLHKQNVEFFSLSERMEVNTSSGKLMLQILASFSEFERNNIVENVFMGQTRRAQEGYYQGN  160
consensus                                     !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

logo

NTDB id 1148893 DG022 RS00080 WP 078073179.1  LPLGYGKIPDNKHELMINQHEANIVKYIFESYAKGHGYRKIANALNHKGYVTKKNKPFSIGSITYILSNPFYIGKIQFAK  240
NTDB id 11 SA RS00430 WP 001186602.1          LPLGYDKIPNSKHELMINQHEANIVKYIFESYAKGHGYRKIANALNHKGYVTKKGKPFSISSITYILANPFYIGKIQFAK  240
consensus                                     !!!!! !!!  !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! !!!!! !!!!!! !!!!!!!!!!!!

logo

NTDB id 1148893 DG022 RS00080 WP 078073179.1  YKDWNEKRRKGLNDKPIISEGKHAPIISQELWDKVQVRKKQVSQKPQVHGKGTNLLTGIVHCPQCGAAMAASNTTNTLKD  320
NTDB id 11 SA RS00430 WP 001186602.1          YKDWSEKRRKGLNDKPVIAEGKHSPIINQDLWDKVQMRKKQVSQKPQVHGKGTNLLTGIIHCPQCGAPMAASNTTNTLKD  320
consensus                                     !!!! !!!!!!!!!!*! !!!! !!! !*!!!!!!*!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!*!!!!!!!!!!!!

logo

NTDB id 1148893 DG022 RS00080 WP 078073179.1  GTKKRIRYYSCSNFRNKGSKVCSANSVRADVIEKYVMDQIYEIVKSNQVIQKVVERVNQDNQVDVAALNHDIAYKQQQFD  400
NTDB id 11 SA RS00430 WP 001186602.1          GTKKRIRYYSCSNFRNKGSKVCSANSVRADVIEDYVMKQILEIVKSDKVIQRVVTHVNQENQVDGAALHHDIAYKQQQYD  400
consensus                                     !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! !!! !! !!!!!  !!!*!! *!!!*!!!! !!!*!!!!!!!!!*!

logo

NTDB id 1148893 DG022 RS00080 WP 078073179.1  EINTKLKNLIQTIEDNPDLTSALKPTIHQYETQLNDITNQMNQLKHQQNQEKPSYDTKQISNILRHIFQNIESMDKSQLK  480
NTDB id 11 SA RS00430 WP 001186602.1          EVQIKLNNLIKTIEDNPDLTSVIRPSIQKYEKQLNDITNQINQLKNQQNEDKPLFDAKEISKLLQHIFHDIKHIEKSRLK  480
consensus                                     !** !! !!! !!!!!!!!!! **!*!* !! !!!!!!!!*!!!!*!!! *!! *! ! !! *! !!!* ! ***!! !!

logo

NTDB id 1148893 DG022 RS00080 WP 078073179.1  ALYLTVIDRIDIRKDGNHKKQFYVTLKLNNEIIKQLFNNTPIDEVLLSTSSLFLPQTLYLQI  542
NTDB id 11 SA RS00430 WP 001186602.1          ALYLSVIDRIDIKKDGNHKKQFYVTLKLNNEIIKQLFNNKQLDEVHLSTSSLFLPQTLYLTI  542
consensus                                     !!!!*!!!!!!!*!!!!!!!!!!!!!!!!!!!!!!!!!!! **!!!*!!!!!!!!!!!!!!! !
```

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