```
logo

NTDB id 1020998 AB0A83 RS04090 WP 150046974.1  MKQSLQLRIGQSLTMTPQLQQAIKLLQMSTLDLQQEIQQALESNMMLEIEEDDLPTLEYRDKKADNNDQMTSEGSQTDMP   80
NTDB id 1425 RS RS02020 WP 011000369.1         MKQSLQLRLSQHLALTPQLQQSIRLLQLSTIELQQEVEQALTENPLLERENEWLDTSARIGADGSVN..ALQSSSATPLP   78
consensus                                      !!!!!!!!* !*! *!!!!!! !*!!!*!!**!!!!* !!!  !**!! ! * !*!       *  !**     ! !**!

logo

NTDB id 1020998 AB0A83 RS04090 WP 150046974.1  DELPVDVS....WDDVYESTLPTGED.....GSDS...................SEFETFRGKTQTLQDHLLWQLDLTHLS   133
NTDB id 1425 RS RS02020 WP 011000369.1         TESPPAANGADHADTAEASYENGSDFDSDYGTERSDWSLDDFARKPQSDEDDRAPMQLREAEPTQREFLMEQLAPLKLS   158
consensus                                       ! !**  ***** !  ! * * ! !*****!** ******************  *   !   *!  **!* !! * *!!

logo

NTDB id 1020998 AB0A83 RS04090 WP 150046974.1  ERDYAIATAIIDAINDDGYITGELHDIYQGLLEQLDDLEMDEVQAVLHMIQNFDPVGVGALNLADCLCLQLRQLPDDTPY   213
NTDB id 1425 RS RS02020 WP 011000369.1         PRDKGLVIFLIESLDDEGYLTGSLDEILADLPAEL.EVELDELQAALRMLQSFDPAGIGARSAAECLTLQLQRL..DSPA   235
consensus                                      *!! **   *!* * !*!!*!! !**!   !*  !***!*!!*!! !*!*! !!! !*!!   !*!!*!!!  !**!*!

logo

NTDB id 1020998 AB0A83 RS04090 WP 150046974.1  KEDALEFAGRHLELLTSCDQARLIKRVGFSEEQLKGVLALIRSLDPKPGARLQEADVEYVVPDVFVAKVKDQWQVALNPD   293
NTDB id 1425 RS RS02020 WP 011000369.1         KPLALTIVNQHLELLAARDYTRLKKALSVDDGELKAAHELIRSLAPFPGHAFGRAEADFVVPDVVVRKTAAGWMAQLNPD   315
consensus                                      !* !!     !!!!!  *!  !! ! *   *  !!* * !!!!! ! !!*    !* **!!!!! ! !    !   !!!!

logo

NTDB id 1020998 AB0A83 RS04090 WP 150046974.1  IAPKLRINPFYSGMIKRADNSQDNVSMKNHLQEARWFIKSLHSRNDTLLRVAKSIVEKQGEFFEHGPIAMKAMVLRDIAE   373
NTDB id 1425 RS RS02020 WP 011000369.1         VMPRLRINDMYAQILRSSRGESGAANLQQKLQEARWLIKNIQQRFDTILRVSQAIVERQKSFFTHGEIAMRPLVLREIAD   395
consensus                                      * !*!!!!* !  ***           * **!!!!!! !! ** ! !!*!!!   !!!*!  !! !!*!!!***!!!*!!*

logo

NTDB id 1020998 AB0A83 RS04090 WP 150046974.1  ELDLHESTISRVTTQKYMHTPQGVIEFKYFFSSHVSTDSGGECSATAIRALIKELVGNENPAKPLSDSKISDLLNEKGIN   453
NTDB id 1425 RS RS02020 WP 011000369.1         TLGLHESTISRVTTNKYMATPMGTFELKYFFGSHVSTETGGAASSTAIRALIKQLVGAEDPKNPLSDSRIAELLGEQGFV   475
consensus                                       ! !!!!!!!!!!!*!!!*!! !  ! !!!! !!!!!**!! *! !!!!!!!! !!! ! !  !!!!!*! *!! ! !

logo

NTDB id 1020998 AB0A83 RS04090 WP 150046974.1  VARRTIAKYREAMSIPSTSQRKRLI   478
NTDB id 1425 RS RS02020 WP 011000369.1         VARRTVAKYREALKIPAVNLRKSL.   499
consensus                                      !!!!!*!!!!!!* !!    !! !*
```

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