```
logo
NTDB id 365141 BV455 RS04800 WP 017436308.1  MEAKQTKKSLPSRSEIPVEETWRLEDIFPTDEAWEQEFQEVKKMIPKLAEYQGRLGESADVLYEALQYQDEVSMRLGKLY   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1    ........MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIY   72
consensus                                    ********  * !****   !! !  !!*!!  !! !*     **!   ! !*! *!! !  !      *  !! !*!

logo
NTDB id 365141 BV455 RS04800 WP 017436308.1  TYAHMRYDQDTTNAFYQGLNDRATSLYSEASSAMAFIVPEILSIDEAKLRSFLEEKQELKLYEHALDEINRQRPHVLSAE  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1    VYASMKNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQE  152
consensus                                     !!*!* !!!!! * !!  * *!* !!!  ! ! !*  !! * *!* !!  ! !  * ! !!*!  * *  ***!!!! !

logo
NTDB id 365141 BV455 RS04800 WP 017436308.1  EEALLAQAAEVMQSSSSTFSMLNNADLTFPTIIDENGEEVEVTHGRFIRFLESTDRRVRRDAFKAVYDTYEKYKNTFAST  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1    AEELLAAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQT  232
consensus                                     ! !!! !*** * ** !! *! !!!* !! * ! *!* !!*!!! !!  *!! !! *!* !* !*! !!! * *!*! !

logo
NTDB id 365141 BV455 RS04800 WP 017436308.1  LSGAVKKDNFFARVRRYKSAREAALSSNNIPESVYDNLIETVHEHLPLLHRYIRLRKKVLGLDELHMYDLYTPLVQDVKM  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LQGVVKVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSET.ET  311
consensus                                    ! ! !! *!* !*!!*! !!!*!!!  ! !!!!!!! !*!*!* !!!!!!!!* !!!!!!!!!!!!*!!!*!!!!   *

logo
NTDB id 365141 BV455 RS04800 WP 017436308.1  EVTYEEAKEYMLKGLAPLGEEYISIVKEGLENRWVDVRENKGKRSGAYSSGAYGTHPYILLNWQDNVNNLFTLVHEFGHS  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1    ALTYEESLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHS  391
consensus                                     *!!!!         !!* !!!!   !* *   !!*!!**!!!!!!!!!! !!! !****!!!!!! * !!!!!!!! !!!

logo
NTDB id 365141 BV455 RS04800 WP 017436308.1  VHSYYTRKTQPYPYGDYSIFVAEVASTCNEALLSDYLLKTIDDEKKRLYLLNHYLEGFRGTVFRQTMFAEFEHMIHMKAQ  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LHSTFTRQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADA  471
consensus                                    *!! *!! !!!!*!!!!*!!*!!*!!!*!!  *!** !!! * !*! !  *!!!!!*!!*!!!!!!! !!!!!! !!

logo
NTDB id 365141 BV455 RS04800 WP 017436308.1  EGEALTADSLTSLYYELNKKYFGDDIVVDQEIGLEWARIPHFYYNYYVYQYATGFSAATALSKQILEEGEPAVKRYIEFL  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1    SGQILTADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYL  551
consensus                                     !  !!!! *  !! *!! !!*        !!  !! !!!!!! !!!!!!!!!!! !!* !   !**  !*    !* *!
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logo

NTDB id 365141 BV455 RS04800 WP 017436308.1   KAGSSDYPIEVLKKAGVDMTSTEPIRQACQVFAEKLEEMEKLLS......   604
NTDB id 480 HSISS4 RS02090 WP 002890133.1     KAGSSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                     !!!!!!!!*!!*!!!!!!!! !***  !* !! **! !*! !* ******
```

X non conserved

X similar

X $\geq$ 50% conserved