```
logo
NTDB id 1015548 ABXJ25 RS04490 WP 002370512.1  MSEIKQLPTRDEVPTPLTWDLTKIFKDDAAFDVAYNQLTEELNQAESFKGTLGNGAEAFLAALEYVLDVYRKVETLYVYS   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1      .....MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYA   75
consensus                                      *****  * ! *** * !!!!! !!  !! **  !    *!  !  * !*!   !  !*! !  * * !**! *!!!

logo
NTDB id 1015548 ABXJ25 RS04490 WP 002370512.1  HLKNDQDTTNTAYQALYARASSLYAQVSEAVSWFDPEVLTLSDEQIWGYFEEQPKLAVYRHYIQNILDERPHVLSMEQEA  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1      SMKNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEE  155
consensus                                      **!!!!!!!   !!   !*!! !! !*!!!  *!*!! * ! !  *  * !  ! !**! !!   *!  **!!!! ! !

logo
NTDB id 1015548 ABXJ25 RS04490 WP 002370512.1  LLAGASEIFGASSNTFSILNNADLEFPTVQNAEGETIQLSHGVYGQLMESVDPSVREAAFKGLYKVYKQFRNTLASTLGA  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1      LLAAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQG  235
consensus                                      !!!*! *!! *** !! *! !!!* !! !  * !* * !*!! *  !!!! !* *! *!* **!  ! !! *! ! !! *

logo
NTDB id 1015548 ABXJ25 RS04490 WP 002370512.1  HVKTHNYKAKIRNYDSARAASLASNHIPESVHETLVAVVNKHLPLLHRYVKLRKKLLNVEELHMYDLYAPLLGEAPIRYS  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1      VVKVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSE.TETALT  314
consensus                                      *!! !!! !!*!*! !!!*! !! !*!!!!!***!*  !!!!!!!!!!!* !!!!*! **!!*!!!*! !!  * *   *

logo
NTDB id 1015548 ABXJ25 RS04490 WP 002370512.1  YEEAKEKAIEALKPLGEDYLSIVKEAFSSRWIDVIENQGKRSGAYSSGAYDTAPYILMNWHDSLDQLFTLVHEMGHSVHS  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1      YEESLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHS  394
consensus                                      !!!   !! ! ! * !!*!   !* !!* !!!!!**! !!!!!!!! !!!!! ***!*!!*!*!!*!!!!!!! !!!*!!

logo
NTDB id 1015548 ABXJ25 RS04490 WP 002370512.1  HYTRNNQPYVYGDYSIFLAEIASTTNENILTEYLLQTETDPKVRAYVLNHYLDGFKGTIFRQTQFAEFEHFIHTEDANGT  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1      TFTRQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQ  474
consensus                                      **!!* !!!!!!!!*!!!!!!!!!!!!!!!!! !!    !*! !  *!!!!!!!!!!!*!!!!!!!!!!! !!  !! !

logo
NTDB id 1015548 ABXJ25 RS04490 WP 002370512.1  PLTSEYLSEYYGELNAKYYGPEVVRDEEISYEWARIPHFYYNYYVYQYATGFSAASALSKHILAGEEGALEKYLNYLKAG  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1      ILTADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAG  554
consensus                                      *!! ***   !**!! !!! *      !! *!! !!!!!! !!!!!!!!!!!! !!! !  *!**! !   ! !! !!!!!
```

```
logo

NTDB id 1015548 ABXJ25 RS04490 WP 002370512.1  SSDFPIEVMKKAGVDMTQAAYIEDAMKVFEERLTELEALVEKL....  603
NTDB id 480 HSISS4 RS02090 WP 002890133.1      SSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS  601
consensus                                      !!!*!*!!*!!!!!!!!*  !** ! !!!!*!! !!!!!!!! ****
```

X non conserved

X similar

X $\geq$ 50% conserved