```
logo
NTDB id 310592 D0Y51 RS04035 WP 003640881.1  MVATKQLPTRSAVPEELTWDLTPIYADQAAYEADIAQVKAAIPTVTALKEIFTSSADTVLAGIQAVLALYRRLEKVAVYA   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1    .....MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYA   75
consensus                                    *****  * !****!  !!!!!*!*!  ! *! *      **  *!   *   !!  *!**    * ! !!!!!* !!!

logo
NTDB id 310592 D0Y51 RS04035 WP 003640881.1  SLKSDQDTGNSTNAALDDQASSLTAKVSAATAWFEPAILELTPGELDTYLDENVDLRDYRHLLDTIRLQKGHVLSESEEA  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1    SMKNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEE  155
consensus                                    !*! !!!!           !! !   *! ! !*!!!  * ! *  !  * *  * !  ! !  * *  *! !!!!   !

logo
NTDB id 310592 D0Y51 RS04035 WP 003640881.1  LLAGASDIFGASAKTFGVLNNADFQFPTVKDDDGNPVKLSQGIYGVLLESVHPAVRREAFEALYKVYGQFRRTLASTLAS  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LLAAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQG  235
consensus                                    !!!*! !!! **  !! !! !!!  !! ! !  ! *! !**! *  !*!! ** *!* !*!!*!  ! !! *! ! !!

logo
NTDB id 310592 D0Y51 RS04035 WP 003640881.1  QVKVHNFVAQAHHYPDARTAALAANQIPTAVYDSLVTSVDKHLDLLHRYVALRKQLLGVDQLHMYDMYTPLAPKPTTNYS  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1    VVKVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSETE.TALT  314
consensus                                     !!!!!* !  *!!* !!*!!!!!! !!  !!!!!* !! !!!*!!!!!* !!! *!!*! !*!!!*!!!! * **!  *

logo
NTDB id 310592 D0Y51 RS04035 WP 003640881.1  YQQAQATALQALKILGSDYLKHVKTAFASRWIDVVENQGKRSGAYSSGMYDTAPYMLLNWQDNIDNLYTLVHEMGHSMHS  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1    YEESLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHS  394
consensus                                    !       !   !  ! ! *!  !*!*  !!   !!!!!**! !!!!!!!! ! !!! **!!!!!!! *!!!*!!!!! !!!*!!

logo
NTDB id 310592 D0Y51 RS04035 WP 003640881.1  YFTTHHQPYQYGDYSIFVAEIASTTNENLLTNYFLATEQDPKMRAYVLNYYLDGFKGTVFRQTQFAEFEQWLHEQDQEGQ  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1    TFTRQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQ  474
consensus                                     !! **!!! !!!!*!!*!!!!!!!!!!*!!    !     !*!  !   *!!*!!!!!!!!!!!!!!!!!!!* *!! !   !!

logo
NTDB id 310592 D0Y51 RS04035 WP 003640881.1  ALTADRLSKHYLQLNQRYYGDAVVSDPQIADEWSRIPHFYYNYYVYQYATGFAAASTLADRISTQQTDAVADYLGYLKAG  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1    ILTADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAG  554
consensus                                     !!!! * !*!  !! *!!       * !  !! !!!!!! !!!!!!!!!!!!!!!! !!**! *   *    !! !!!!!
```

```
logo

NTDB id 310592 D0Y51 RS04035 WP 003640881.1   SSAFPIDVMHRAGVDMTKPDYLDAAFEVFEERLNEFEQLVTQD....   603
NTDB id 480 HSISS4 RS02090 WP 002890133.1     SSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                     !! *!**!***!!!!!! *!!!!!!! !!!*!! ! ! !!    ****
```

X non conserved

X similar

X $\geq$ 50% conserved