```
logo
NTDB id 1166411 AB3230 RS09770 WP 011101688.1  MVATKQLPTRSAVPEELTWDLTPIYADQAAYEADIAQVKAAIPTVTALKETFTSSADTVLAGIQAVLALYRRLEKVAVYA   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1      .....MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYA   75
consensus                                      *****  * !****!  !!!!!*!*!  ! *! *      **  *!   *   !!  *!**    * ! !!!!!* !!!

logo
NTDB id 1166411 AB3230 RS09770 WP 011101688.1  SLKSDQDTGNSTNAALDDQASSLTAKVSAATAWFEPAILELTPGELDTYLDENVDLRDYRHLLDTIRLQKGHVLSESEEA  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1      SMKNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEE  155
consensus                                      !*! !!!!            !! !   *! ! !*!!!  * ! *  !  * *  * !  ! !  * *  *! !!!!   !

logo
NTDB id 1166411 AB3230 RS09770 WP 011101688.1  LLAGASDIFGASAKTFGVLNNADFQFPTVKDDDGNPVKLSQGIYGVLLESVHPAVRREAFEALYKVYGQFRRTLASTLAS  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1      LLAAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQG  235
consensus                                      !!!*! !!! **  !! !! !!!  !! ! !  ! *! !**! *  !*!! ** *!* !*!!*!  ! !! *! ! !!

logo
NTDB id 1166411 AB3230 RS09770 WP 011101688.1  QVKVHNFVAQAHHYPDARTAALAANQIPTAVYDSLVTSVDKHLDLLHRYVALRKQLLGVDQLHMYDMYTPLAPKPTTNYS  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1      VVKVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSETE.TALT  314
consensus                                       !!!!!* !   *!!* !!*!!!!!! !!   !!!!!* !! !!!*!!!!!* !!! *!!*! !*!!!*!!!! * **!   *

logo
NTDB id 1166411 AB3230 RS09770 WP 011101688.1  YQQAQATALQALKILGPDYLKHVKTAFASRWIDVVENQGKRSGAYSSGMYDTAPYMLLNWQDNIDNLYTLVHEMGHSMHS  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1      YEESLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHS  394
consensus                                      !       !   ! ! !**! !*!* !!  !!!!!**! !!!!!!!! ! !!! **!!!!!!! *!!!*!!!!! !!!*!!

logo
NTDB id 1166411 AB3230 RS09770 WP 011101688.1  YFTTHHQPYQYGDYSIFVAEIASTTNENLLTNYFLATEQDPKMRAYVLNYYLDGFKGTVFRQTQFAEFEQWLHEQDQEGQ  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1      TFTRQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQ  474
consensus                                       !! **!!! !!!!*!!*!!!!!!!!!!*!!   !    !*! !  *!!*!!!!!!!!!!!!!!!!!!!* *!! !  !!

logo
NTDB id 1166411 AB3230 RS09770 WP 011101688.1  ALTADRLSKHYLQLNQRYYGDAVVSDPQIADEWSRIPHFYYNYYVYQYATGFAAASTLADRISTQQTDAVADYLGYLKAG  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1      ILTADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAG  554
consensus                                       !!!! * !*!  !! *!!       * !  !! !!!!!! !!!!!!!!!!!!!!!! !!**! *   *    !! !!!!!
```

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logo
                                                  SSDYPLEVMKRAGVDMTNTDYLDAAFKVFEERLNEFEQLVTQG
                                                  SSAFPIDVMHRAGVDMTKPDYLDAAFEVFEERLNEFEALVEKDVHLS

NTDB id 1166411 AB3230 RS09770 WP 011101688.1    SSAFPIDVMHRAGVDMTKPDYLDAAFEVFEERLNEFEQLVTQD....   603
NTDB id 480 HSISS4 RS02090 WP 002890133.1        SSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                        !! *!**!***!!!!!! *!!!!!!! !!!*!! ! ! !!    ****
```

X non conserved

X similar

X $\geq$ 50% conserved