```
logo
NTDB id 251499 C0033 RS13500 WP 072540705.1  MVATKQLPTRSAVPEELTWDLTPIYADQAAYEADIAQVKAAISTVTALKEIFTSSADTVLAGIQAVLALYRRLEKVAVYA   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1    .....MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYA   75
consensus                                    *****  * !****!  !!!!!*!*!  ! *! *      *   *!   *   !!  *!**    * ! !!!!!* !!!

logo
NTDB id 251499 C0033 RS13500 WP 072540705.1  SLKSDQDTGNSTNAALDDQASSLTAKVSAATAWFEPAILELTPGELDTYLDENVDLRDYRHLLDTIRLQKGHVLSESEEA  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1    SMKNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEE  155
consensus                                    !*! !!!!           !! !   *! ! !*!!!  * ! *  !  * *  * !  ! !  * *  *! !!!!   !

logo
NTDB id 251499 C0033 RS13500 WP 072540705.1  LLAGASDIFGASAKTFGVLNNADFQFPTVKDDDGNPVKLSQGIYGVLLESVHPAVRREAFEALYKVYGQFRRTLASTLAS  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LLAAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQG  235
consensus                                    !!!*! !!! **  !! !! !!!  !! ! !  ! *! !**! *  !*!! ** *!* !*!!*!  ! !! *! ! !!

logo
NTDB id 251499 C0033 RS13500 WP 072540705.1  QVKVHNFVAQAHHYPDARTAALAANQIPTAVYDSLVTSVDKHLDLLHRYVALRKQLLGVDQLHMYDMYTPLAPKPTTNYS  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1    VVKVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSETE.TALT  314
consensus                                     !!!!!* !  *!!* !!*!!!!!! !!  !!!!!* !! !!!*!!!!!* !!! *!!*! !*!!!*!!!! * **!  *

logo
NTDB id 251499 C0033 RS13500 WP 072540705.1  YQQAQATALQALKILGPDYLKHVKTAFASRWIDVVENQGKRSGAYSSGMYDTAPYMLLNWQDNIDNLYTLVHEMGHSMHS  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1    YEESLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHS  394
consensus                                    !       !   ! ! !**! !*!* !!  !!!!!**! !!!!!!!! ! !!! **!!!!!!! *!!!*!!!!! !!!*!!

logo
NTDB id 251499 C0033 RS13500 WP 072540705.1  YFTTHHQPYQYGDYSIFVAEIASTTNENLLTNYFLATEQDPKMRAYVLNYYLDGFKGTVFRQTQFAEFEQWLHEQDQEGQ  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1    TFTRQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQ  474
consensus                                     !! **!!! !!!!*!!*!!!!!!!!!!*!!   !    !*! !  *!!*!!!!!!!!!!!!!!!!!!!* *!! !   !!

logo
NTDB id 251499 C0033 RS13500 WP 072540705.1  ALTADRLSKHYLQLNQRYYGDAVVSDPQIADEWSRIPHFYYNYYVYQYATGFAAASTLADRISTQQTDAVADYLGYLKAG  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1    ILTADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAG  554
consensus                                     !!!! * !*!  !! *!!       * !  !! !!!!!! !!!!!!!!!!!!!!!! !!**! *   *    !! !!!!!
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logo

NTDB id 251499 COO33 RS13500 WP 072540705.1   SSAFPIDVMHRAGVDMTKPDYLDAAFEVFEERLNEFEQLVTQD....   603
NTDB id 480 HSISS4 RS02090 WP 002890133.1     SSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                     !! *!**!***!!!!!! *!!!!!!! !!!*!! ! ! !!    ****
```

X non conserved

X similar

X $\geq$ 50% conserved