```
logo
NTDB id 149101 AB984 RS01785 WP 003775546.1  MSDKYELPLRSEVDIKDTWDLTPMFKDDDAWNTEFDAIQNDLSEVAAYRGTLTKSAESLLAGLKFRDELSYRIEFLYVYA   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1    .....MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYA   75
consensus                                    *****  * !**** ! !!!!!**!  !  ! !!**   *!!    !! !*!  !!  !!**      !  !*! *!!!!

logo
NTDB id 149101 AB984 RS01785 WP 003775546.1  HLSFDVDTTNPKYQAMNARVQSLLAQFGSSFSFYEAEILSADEAVIREYLESNEALSLYNHEFDRLFKSRPHILSEKEER  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1    SMKNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEE  155
consensus                                    **  ! !!! * !!  *!*   !  !    ! **!*! *  !*  * !* !  **! !! ! !*!!   **!*!!   !

logo
NTDB id 149101 AB984 RS01785 WP 003775546.1  ILASLGEIFGVSSQTFGMLNNADIQFPTIKDESGNDVQLSHGRYSLLMESADRRVREDAFKAMQTTYGNLKNTLASTLSG  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LLAAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQG  235
consensus                                    *!!  !*!!  ** !! *! !!!! !! * !  !  ! !*!! *  !!!! !! *!  !* !!  !! *  *! ! !! !

logo
NTDB id 149101 AB984 RS01785 WP 003775546.1  NVKVHNFNATIRNYASARQAALAANNIDEEVYDSLLEGIHNNINLLHDYVALREEALGIDDIQMYDIYVPMVDEVDLKFT  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1    VVKVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSE.TETALT  314
consensus                                     !!!!!**! *!*! !!!*!!!!!! !*! !!!!!!! ** ***!!! !* !!   !!*!** !!!*! !* ** *   !

logo
NTDB id 149101 AB984 RS01785 WP 003775546.1  YEEAQEVILDALSVLGEEYCAVLKRAFDERWIDVVENKGKRSGAYSSGTYGSAPYILLNWQENIDNVFTLAHELGHSVHS  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1    YEESLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHS  394
consensus                                    !!!       * ! * !!!!*  ** !! !!!!!!**!!!!!!!!!! ! ! * ***!!!!!* *!!*!!! !! !!!*!!

logo
NTDB id 149101 AB984 RS01785 WP 003775546.1  YFTRKYQPYIYGDYSIFVAEVASTTNENLLLNYLLDQYEDPKVRAYLLNHYLDTVKGTVFRQTQFAEFEHLIHKSDQEGV  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1    TFTRQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQ  474
consensus                                     !!!  !!!*!!!!*!!*!!*!!!!!!!*!   !!    !*! !  *!!!!!!  !!!!!!!!!!!!!!! !!  !  !

logo
NTDB id 149101 AB984 RS01785 WP 003775546.1  ALTADYLIESYYKLNQFYYGES.ISTEEIGYEWARIPHFYYNYYVYQYATGFSAATLFSETIYNGG..DATPYLDFLKSG  557
NTDB id 480 HSISS4 RS02090 WP 002890133.1    ILTADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAG  554
consensus                                     !!!!**   !  !!  !!   *    !! *!! !!!!!! !!!!!!!!!!!! !!*   ! ! *! **!  *!! *!! !
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logo
                                                  SSDYPINVLRKAGVDMTESTAVDTTLEKFGERMAELRTLLVK.....   599
NTDB id 149101 AB984 RS01785 WP 003775546.1       SSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
NTDB id 480 HSISS4 RS02090 WP 002890133.1
consensus                                         !!!!!* !**!!!!!!! *  *!      ! *!* !!   !* !*****
```

X non conserved

X similar

X $\geq$ 50% conserved