```
logo
NTDB id 356031 E4Z98 RS01010 WP 135254368.1  MSEPKRLPKREELDEALTWDLTKIFATDEDFEASYTAFEKKIPEVKQYQGTLKEGAGQFLAAIEATLELTRELETMYVYT   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1    .....MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYA   75
consensus                                    *****  * ! *!*!  !!!!! !!!!! !*!  !      **    ! !*! * ! * !*! !  * ! ! !! *!!!

logo
NTDB id 356031 E4Z98 RS01010 WP 135254368.1  SMKNDQDTANTKYQGMSGKMSGLVAKASEAISWFEPEMLQLTDEEIWAYVEEEPKLEVYRQMIKSTLAERAHVLSEKEEA  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1    SMKNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEE  155
consensus                                    !!!!!!!!    !!   *! ! !    !!!  *!!!! * ! !  *  * ! !! ! *! *     !! * !!!!   !

logo
NTDB id 356031 E4Z98 RS01010 WP 135254368.1  LLAGAGEIFGTAGDTFAILNNADLKFPIIEGEEGEAIQLSHGVYGQLMESVKPEVREAAFKGLYSVYEQFQHTFATTLSS  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LLAAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQG  235
consensus                                    !!!*!!*!!   * !!! *! !!!* !! *    !* * !*!! *  !!!!  ***! *!* **!  !!!!!!!*! !!

logo
NTDB id 356031 E4Z98 RS01010 WP 135254368.1  NVKVHNYKAKARNYPSARAAALAGNHIPESVYDTLIEVVHKHLPLLHRYVALRKKMMGVDELHMYDMYTPILGDAPIRYT  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1    VVKVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSE.TETALT  314
consensus                                     !!!!!! !! !*!*!!!*!!!!*!*!!!!!!!*!*! !*!!!!!!!!!* !!!!**!*!!!*!!!*!!!*  * *   !

logo
NTDB id 356031 E4Z98 RS01010 WP 135254368.1  YEESVEKSKEALKPLGEEYGKVVEEAYTNRWVDVVENQGKRSGAYSSGAYDTAPYILMNWHDSLDQLYTLVHEMGHSVHS  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1    YEESLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHS  394
consensus                                    !!!!* !   ! ! * !!!!  ! !* !*! !!*!!**! !!!!!!!! !!!!! ***!*!!*!*!!*!*!!!!! !!!*!!

logo
NTDB id 356031 E4Z98 RS01010 WP 135254368.1  YFTRSNQPYVYGDYSIFLAEIASTTNENILTEHLLATETDPKVRAFILNRYLDGFKGTVFRQTQFAEFEHFIHVEDAKGT  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1    TFTRQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQ  474
consensus                                     !!!  !!!!!!!!!*!!!!!!!!!!!!!!!!!*!!    !*! !  !!!*!!!!!!!!!!!!!!!!!!!!! !!   !! !

logo
NTDB id 356031 E4Z98 RS01010 WP 135254368.1  PLTSEFLSDYYANLNANYYGPAVEKDAEIALEWSRIPHFYYNYYVYQYSTGFAAASALAAKIVVGEEGALDNYLTYLKAG  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1    ILTADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAG  554
consensus                                    *!! *!*   !! !!  !! *  !   !!  !! !!!!!! !!!!!!! !!!!!!! !! !!!*! !   * !!!!!!!!
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logo
NTDB id 356031 E4Z98 RS01010 WP 135254368.1  RSDYPIDIMKKAGVDMTQANYLEDAMKVFETRLNEFEALIDQL....   603
NTDB id 480 HSISS4 RS02090 WP 002890133.1    SSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                     !!!!****!!!!!!!!*  !!* ! !!!! !! ! !!!**  ****
```

X non conserved

X similar

X $\geq$ 50% conserved