```
logo
NTDB id 166286 AUC65 RS04110 WP 010372513.1  MAKELPLRDALPESMTWNLQTIFASDEAWEDAFEELADRLESADFFVQSATTSGTDLYNALQYGLGVMRDLEKLYVYASM   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1    ...MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYASM   77
consensus                                    ***  * ! *!*!  !! ! !!!!*!  !!  *!     !  !  *  *  !*  !  !    * *!! !!!*!!!!!!

logo
NTDB id 166286 AUC65 RS04110 WP 010372513.1  KSDQDTANAYYQGLSNRAEALAARVSAAIAFFDPAVLSLSEAELTAFFEAEPKLGAYKHYFESILTQQGHVLTPDQEALL  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1    KNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEELL  157
consensus                                    ! !!!!  * !!    *!  !   *! ! !*!*!  * ! *  !  ! ! !! !! ! !!!! *! *  !!!*** ! !!

logo
NTDB id 166286 AUC65 RS04110 WP 010372513.1  AAAGDVFGASERTFGVLDNADIKFEAVANEDGELETLSNGVYSRLLESTDPEVRRNAFQTFYKSYVSLENTFASLIASHV  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1    AAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQGVV  237
consensus                                    !!!!!*! **  !! !!!!!!! !* !   !**  !**! *  !*!! !***!* !*   ! *!    *!*!  *  *!

logo
NTDB id 166286 AUC65 RS04110 WP 010372513.1  KGHNFMAAVHNYDNAREAALAGNHVPEVVYDTLVAEVNEALPLLHRYVALRKQLLGLDELHSYDLYTPILGEPDFTIDYE  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1    KVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSE.TETALTYE  316
consensus                                    ! !!* ! !**!  !!*!!!!*!**!! !!!*!*  !! *!!!!!!!* !!! *!!!!!!* !!*!!!*  ***  * !!

logo
NTDB id 166286 AUC65 RS04110 WP 010372513.1  SAQAEALKALAPLGEDYLEVVNTAFDNRWIDVIENKGKRSGAYSGGSYDTNPFILLNWVDNLNNLSTLVHEMGHSVHSYL  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1    ESLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHSTF  396
consensus                                          !   !!* !!*!   !* !!  !!!!!**!!!!!!!!!!!! !!!!*!*!!!! ! ! !! !!!!! !!!*!!

logo
NTDB id 166286 AUC65 RS04110 WP 010372513.1  TRQNQPYHYGDYPIFLAEIASTTNENLLTDYLLKTVTDKKLRAYILNQYLDGVKGTVFRQTQFAEFEQWMHVTDAQGVPL  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1    TRQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQIL  476
consensus                                    !!!  !!!*!!!!!!!!!!!!!!!!!!*!!* !!! ! ! ! !  !!!*!!!! !!!!!!!!!!!!!!* *!   !! ! *!

logo
NTDB id 166286 AUC65 RS04110 WP 010372513.1  TADVLDEAYGELNRRYYGPALTFDDEIAHEWERIPHFYYNFYVFQYSTGFAAATAMADKILTEGAPAVAAYKEYLKAGSS  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1    TADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGSS  556
consensus                                    !!! *   !**!! *!! *      !! *!!!!!!!!! !*!!*!! !!!!!!* *!*!!**   *   !!  !!!!!!!
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logo
                                                  DYPLEVMKKAGVDMTNTDYLRDTFKVFEQRLNEFEALVEKLVHL
                                                  AFPIDVMKKAGLDMTKPDYLDAAFKVFEDRLNEFEALVAEGAAES

NTDB id 166286 AUC65 RS04110 WP 010372513.1  AFPIDVMKKAGLDMTKPDYLRDTFKVFEQRLNEFEALVAELAAE.   604
NTDB id 480 HSISS4 RS02090 WP 002890133.1    DYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                     *!**!*!!!!*!!! *!!!    !!!!! !! ! !!!!     * *
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X non conserved

X similar

X $\geq$ 50% conserved