```
logo
NTDB id 401273 GFU50 RS11150 WP 154694520.1  MSETKQLPARESIPVEKTWDLTKIYADDAAFDIEFQEIQAQVKEASRYQGTLADGPQAFLAALEFVLDLSRRLEKLYVYS   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1    .....MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYA   75
consensus                                    *****  * ! ***   !!!!! !*! !! ** !*     *! !! ! !*! ! *   !*! !  * ! !!!!!*!!!

logo
NTDB id 401273 GFU50 RS11150 WP 154694520.1  HLKNDQDTANTTYQGLYAKASSLVAQVSEAVAWFDPELLTMSDETIWGYFDQEPKLAVYRHMIEKTINERPHVLPAEQEA  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1    SMKNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEE  155
consensus                                    **!!!!!!    !!   !!!! !  !*!!! !*!*!! * * !  *  * *!!! !**! !  !* *  **!!!* ! !

logo
NTDB id 401273 GFU50 RS11150 WP 154694520.1  LLAGAGEIFGAPGNIFSVLNNADLLDFPVVEDENGEKVQLSHGVYGELMESTDRSVREAAFKGLYGVYEQFRNTFAQTLST  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LLAAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQG  235
consensus                                    !!!*!!*!! *!   ! !! !!!* !! ! ! *!* ! !*!! *  !!!! !! *! *!* **!! !!!! *!*!!!!

logo
NTDB id 401273 GFU50 RS11150 WP 154694520.1  NIKAHNFKAKARKFDSARQAALSANHIPESVYDTLVDVVNQHLPLLHRYMALRKRLLAVDTLHMYDVYTPILGEAPIRYT  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1    VVKVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLS.ETETALT  314
consensus                                     *! !!* !! !** !!!*!!! !!*!!!!!!!*!** !! !!!!!!!!* !!!**!**! !*!!!!!!!* *! *   !

logo
NTDB id 401273 GFU50 RS11150 WP 154694520.1  YEEAVEKAKEALKPLGEEYLAVVEEAFSNRWIDVVENKGKRSGAYSSGAYDTLPYILMNWNDRLDQLFTLVHEMGHSVHS  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1    YEESLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHS  394
consensus                                    !!! * !! ! ! * !!!!   !* !!* !!!!!**!!!!!!!!!! !!!!! ***!*!!*! !!*!!!!!!! !!!*!!

logo
NTDB id 401273 GFU50 RS11150 WP 154694520.1  YFTRNNQPYAYGDYSIFLAEIASTTNENILTEYMLQTETDPRVKAYVLNHFLDGFKGTIFRQTQFAEFEHFMHVEDAKGT  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1    TFTRQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQ  474
consensus                                     !!!* !!!  !!!!*!!!!!!!!!!!!!!!!! *!    !** *  *!!!*!!!!!!!*!!!!!!!!!!! *!   !! !

logo
NTDB id 401273 GFU50 RS11150 WP 154694520.1  PLTSEFLSENYAELNAKYYGPSVEKDPEIRLEWSRIPHFYYNYYVYQYSTGFSAASALAKKILAGEPDALTNYLNYLKAG  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1    ILTADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAG  554
consensus                                    *!! *!*   !!*!! !!! *  !  *!!  !! !!!!!! !!!!!!! !!! !!! !! !!**! **    !! !!!!!
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logo
                                                  RSDYPIEVMKKAGVDMTKADYIEDAMKVFEQRLNELEELVKEIEA..   605
NTDB id 401273 GFU50 RS11150 WP 154694520.1
NTDB id 480 HSISS4 RS02090 WP 002890133.1         SSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                          !!!!*!!*!!!!!!!!  !!** ! !!!! !! !!! !!    ***
```

X non conserved

X similar

X $\geq$ 50% conserved