```
logo
NTDB id 1120881 EL115 RS02870 WP 126441262.1  MAKQRNEIEEKYTWDLTTIFPTDEAFEMELAQVSKELKEASHLAGHLLDSADSLLKTTDIQMDLMRRIEKLYSYAHMKND   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1     MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYASMKND   80
consensus                                     !  *! **!!!!!!!!!!!!*!!  *! !       *!! !!* !!!!!!!!  !!   !** ! !!!!*!!*! !!*!!!!

logo
NTDB id 1120881 EL115 RS02870 WP 126441262.1  QDTRVAKYQEYQAKGMATYSEFGQVFAFYEPEFMAITDEQYQAFLAEKPELQIYQHFFDKLLQKKPHILSQREEELLAGA  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1     QDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEELLAAA  160
consensus                                     !!! !* !!!!!!!*   !!     !!**!!!!!!* !     !    ! ! *! !*!**!!  !*!*!!!  !!!!!*!

logo
NTDB id 1120881 EL115 RS02870 WP 126441262.1  GEIFSAAGDTFGILDNADIVFPIVHDEEGNEVQLTHGNYISLVESKNRTVRKEAYEALYSVYEQYQHTYAKTLQTNVKVH  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1     GDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQGVVKVH  240
consensus                                     !*!! ** !!! *!!!!!!*!! !*!  !  ! !!!!!*!*!*!!! ! *!! !!!!*!  !!!*!!!!! !!!   !!!!

logo
NTDB id 1120881 EL115 RS02870 WP 126441262.1  NYNAKVRKFSSAREAALSANFIPESVYESLVSAVNKHLPLLHRYVQLRAKILGISDLKMYDVYTPLSEIDYKFTYEAALI  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1     NYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSETETALTYEESLK  320
consensus                                     !!*!!!!** !!!*!!! !!!!!!!!!*!!*  !!!!!!!!!!!* !! !*!!* *!!!!!!!!!!!! *   !!!  !

logo
NTDB id 1120881 EL115 RS02870 WP 126441262.1  KAEEVLAILGDDYLNRVKKAFSERWIDVCENQGKRSGAYSGGSYDTNAFMLLNWQDTLDNLFTLVHETGHSMHSSYTRET  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1     KAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHSTFTRQT  400
consensus                                     !!!!!!!! !**!   !* !!*!!!!!! *! !!!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!**!! !

logo
NTDB id 1120881 EL115 RS02870 WP 126441262.1  QPYVYGDYSIFLAEIASTTNENILTEKLLEEVDDDQTRFAILNHFLDGFRGTVFRQTQFAEFEHAIHKADQEGQVLTSEF  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1     QPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQILTADF  480
consensus                                     !!!!!!!!*!!!!!!!!!!!!!!!!!! !! !! !! !!!!!!!!*!!!!!*!!!!!!!!!!!!!!!!!! !!   !!*!! *!

logo
NTDB id 1120881 EL115 RS02870 WP 126441262.1  LNNLYADLNEKYYGLTKEDNPQIQYEWARIPHFYYDYYVFQYATGFSAASALADKIVNGTQEDKEKYLHYLRAGNSDYPL  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1     MNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGSSDYPL  560
consensus                                     *! !!!!!!!!!!! !  !!!* !!*!! !!!!!!  !!!*!!!!!! !!! !!*!!!*!! !!!! !!*!!*!! !!!!!
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logo                                                  NVIKKAGVDMEKEDYLNAAFTVFERRLDEFEALVEKLGLA.   600
NTDB id 1120881 EL115 RS02870 WP 126441262.1          NVIKKAGVDMEKEDYLNAAFTVFERRLDEFEALVEKLGLA.   600
NTDB id 480 HSISS4 RS02090 WP 002890133.1             EVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                              !!!!!!!!!   !!! !!! !!! !! ! !!!!!!  * *
```

X non conserved

X similar

X $\geq$ 50% conserved