```
logo
NTDB id 1139991 DQN61 RS06035 WP 011017940.1  MTDNRSHLEEKYTWDLSTIFATDKDWEAEVSDLATEVEASKGFAGHLLDSSANLLKVTKTYLELARHVEKVYVYAHMKND   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1     MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYASMKND   80
consensus                                     !*!!!*!!!!!!!!!!*!!!!!! !!! !       **    **!!!!!!!  !!!   !  !*  !  !**!!*!!!!*!!!!

logo
NTDB id 1139991 DQN61 RS06035 WP 011017940.1  QDTTVAKYQEYQAKASGLYAKFSEVFSFYDPEVMMLHQEDYQAFLTETPELKVYNHFFDKLFQAREHVLSQAEEELLAGA  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1     QDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEELLAAA  160
consensus                                     !!!!!* !!!!!!!!!! !!   !! ! ***!! ! !*      !    ! ! *! !*!**!   **!!!!!  !!!!!*!

logo
NTDB id 1139991 DQN61 RS06035 WP 011017940.1  QEIFNGAEETFSILDNADIVFPIVRNDKGENIELTHGNFISLMESKDRSVRQAAYEAMYSTYEQFQHTYAKTLQTNVKVQ  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1     GDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQGVVKVH  240
consensus                                      *!!!!* *!! *!!!!!!*!! !    !* *!!!!!!!!*!!!!!!! *! *!!!!!! !!!!!!!!!! !!!   !!!*

logo
NTDB id 1139991 DQN61 RS06035 WP 011017940.1  NYKARVHKYDSARQAAMAANFIPEAVYDTLLETVNKHLPLLHRYLKLRQEVLGLDDLKMYDVYTPLSETDLAIGYDEALE  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1     NYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSETETALTYEESLK  320
consensus                                     !! !*!**! !!!*!!*!!!!!!! !!!*!!!*!!!!!!!!!!!! !!  !!!!!*!!!!!!!!!!!!!* !* !*! !

logo
NTDB id 1139991 DQN61 RS06035 WP 011017940.1  KAEKVLAVFGKDYADRVHRAFTERWIDVHVNKGKRSGAYSGGSYDTNAFMLLNWQDTLDNLYTLVHETGHSLHSTFTRET  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1     KAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHSTFTRQT  400
consensus                                     !!! !!!*!! *!   !! !!!!!!!!!!*!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!!*!!!!!!!!!!!!!!!!  !

logo
NTDB id 1139991 DQN61 RS06035 WP 011017940.1  QPYVYGDYSIFLAEIASTTNENIMTEALLNEVQDEKERFAILNHYLDDFRGTVFRQTQFAEFEHAIHQADQKGEVLTSEY  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1     QPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQILTADF  480
consensus                                     !!!!!!!!*!!!!!!!!!!!!!!!*!! !! !!  !*! !!!!!!!!!! !*!!!!!!!!!!!!!!!!!! !!   ! *!! **

logo
NTDB id 1139991 DQN61 RS06035 WP 011017940.1  LNQLYADLNEKYYGLSKKDNHFIQYEWARIPHFYYNYYVYQYATGFAAASYLADKIVHGTQDDIDHYLAYLKSGNSDYPL  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1     MNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGSSDYPL  560
consensus                                     *! !!!!!!!!!!! !   !!* !!*!! !!!!!! !!!!!!!!!!!!!!!!!!!*!!!!!! *! **!! !!! ! !!!!!
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logo
                                                 EVIAKAGVDMTNTDYLEAAFKVFEERLYTELEVLVSKGYHLS
NTDB id 1139991 DQN61 RS06035 WP 011017940.1    EVIAKAGVDMAKGDYLEAAFKVFDERLTELEVLVSKGIHKS   601
NTDB id 480 HSISS4 RS02090 WP 002890133.1       EVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                       !!! !!!!!!   !!!*!!!!!!**!! !!! !! !!*! !
```

X non conserved

X similar

X $\geq$ 50% conserved