```
logo
NTDB id 172408 AYM92 RS06035 WP 011054652.1  MTDNRSHLEEKYTWDLSTIFATDKDWEAEVSDLATEIDAAKDFSGHLLDSSANLLTITDTYLELARRVEKVYVYAHMKND   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1    MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYASMKND   80
consensus                                    !*!!!*!!!!!!!!!!*!!!!!! !!! !      **   !  * !!!!!!  !!!  !* !* ! !!*!!*!!!!*!!!!

logo
NTDB id 172408 AYM92 RS06035 WP 011054652.1  QDTTVAKYQEYQAKASGLYAKFSEVFSFYDPEVMALSQEDYQAFLAETPDLKRYHHFFDKLFQTRDHVLSQAEEELLAGA  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1    QDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEELLAAA  160
consensus                                    !!!!!* !!!!!!!!!! !!   !! ! ***!! !!!      !    ! !  !*!*!**!   *!!!!!!  !!!!!*!

logo
NTDB id 172408 AYM92 RS06035 WP 011054652.1  QEIFNGAEETFSILDNADIVFPVVKNDKGEDVELTHGNFISLMESKDRSIRQAAYEAMYSTYEQFQHTYAKTLQTNVKVQ  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1    GDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQGVVKVH  240
consensus                                     *!!!!* *!! *!!!!!!*!! !    !* !!!!!!!!!*!!!!!!! !! *!!!!!! !!!!!!!!!! !!!  !!!*

logo
NTDB id 172408 AYM92 RS06035 WP 011054652.1  NYKARVHKYDSARQAAMAANFIPEAVYDTLLETVNKHLPLLHRYLKLRQKEVLGLDDLKMYDVYTPLSETDLAIGYDEALE  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1    NYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSETETALTYEESLK  320
consensus                                    !! !*!**! !!!*!!*!!!!!!! !!!*!!!*!!!!!!!!!!!!! !!  !!!!!*!!!!!!!!!!!!!* !* !*! !

logo
NTDB id 172408 AYM92 RS06035 WP 011054652.1  KAEKVLAVFGKDYADRVHRAFTERWIDVHVNKGKRSGAYSGGSYDTNAFMLLNWQDTLDNLYTLVHETGHSLHSTFTRET  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1    KAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHSTFTRQT  400
consensus                                    !!! !!!*!! *!   !! !!!!!!!!!!*!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!*!!!!!!!!!!!!!!! !

logo
NTDB id 172408 AYM92 RS06035 WP 011054652.1  QPYVYGDYSIFLAEIASTTNENIMTEALLNEVQDEKERFAILNHYLDGFRGTVFRQTQFAEFEHAIHQADQKGEVLTSEY  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1    QPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQILTADF  480
consensus                                    !!!!!!!!*!!!!!!!!!!!!!!!*!! !! !! !*! !!!!!!!!!!!!*!!!!!!!!!!!!!!!! !!   ! *!! **

logo
NTDB id 172408 AYM92 RS06035 WP 011054652.1  LNQLYADLNEKYYGLSKKDNHFIQYEWARIPHFYYNYYVYQYATGFAAASYLADKIVHGTQDDIDHYLAYLKSGNSDYPL  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1    MNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGSSDYPL  560
consensus                                    *! !!!!!!!!!! !   !!* !!*!! !!!!!! !!!!!!!!!!!!!!!!!!!!*!!!!!! *! **!! !!! ! !!!!!
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logo
                                                  EVIAKAGVDMAKGDYLEAAFKVFDERLTELEVLVSKGIHKS
NTDB id 172408 AYM92 RS06035 WP 011054652.1  EVIAKAGVDMAKGDYLEAAFKVFDERLTELEVLVSKGIHKS   601
NTDB id 480 HSISS4 RS02090 WP 002890133.1    EVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                    !!! !!!!!!   !!!*!!!!!!**!! !!! !! !!*! !
```

X non conserved

X similar

X $\geq$ 50% conserved