```
NTDB id 1166374 AB3Y88 RS02825 WP 261909401.1  MEKKKIALLARTEIPAELTWDLTKIFATDAAFETEVHLITTMAGAMKQYRQTMQKDADALVSVLETLLNLKRRIEKVYVY  80
NTDB id 480 HSISS4 RS02090 WP 002890133.1      ......MSDNRTHLEEKYTWDLTTIFATDADWETEYFSTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVY  74
consensus                                      ******    !!***   !!!!! !!!!!! *!!! *          !  **  !  !*   !  * ! !!*!!*!!!
```

```
NTDB id 1166374 AB3Y88 RS02825 WP 261909401.1  ASLKNDEDTNNKRYQGYFARIQKLTATVYASFAWFEPEVLALPAEKLAHYYESDARLNAYRHFLDQIRLQKKHFLSEKEE  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1      ASMKNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAE  154
consensus                                      !!*!!! !!    !! ! !*   !   *   !!*!!!! *!!*  !!!** ! ** !  ! !* * *  *! ! !!    !
```

```
NTDB id 1166374 AB3Y88 RS02825 WP 261909401.1  GLLAAASDIFAAPENIFGILNNADLKFPTVHNDQGQTVELSHGLFGKLLESTHRAVRKEAFNALYQTYEQFQNTFATALT  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1      ELLAAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQ  234
consensus                                       !!!!! !!! *!   ! *! !!!* !! !*   !!   !!!*!! !  !*!! *! *!! !* !*! !!!!!!*!*!   !
```

```
NTDB id 1166374 AB3Y88 RS02825 WP 261909401.1  AHVRTHNFEAQIRNYATAKRAALAPDNLPTAVYDLLIARVNQFLPLLQRYVKLRKQVLKLDEVHMYDLYAPITAVPEKKY  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1      GVVKVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSETE.TAL  313
consensus                                      **!* !!* ! *!*! *!**!!!!*  *!  !!! !*  !! *!!!!*!!* !!! !! !!!**!!!*!  !**  **
```

```
NTDB id 1166374 AB3Y88 RS02825 WP 261909401.1  SFSTAKKITLEVLAIFGTEYLEIVKRAFSERWIDVCENRGKRDGAYSSGTYDTPPYILLNWQNNLESLYTLVHEMGHSVH  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1      TYEESLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLH  393
consensus                                      **    !   !!!!!!! !!   !* !!*!!!!!! *!*!!! !!!! ! !!!**** !!!!!  !* !*!!!!! !!!*!
```

```
NTDB id 1166374 AB3Y88 RS02825 WP 261909401.1  SYLSNHRQAYQNSDYSIFVAEIASTTNENLLTQYLLENTTDTGFKAYILNHYLDSFKGTVYRQTQFAEFEDWLHIQDAAQ  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1      STFTRQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASG  473
consensus                                      !  * * !*!   !!*!!*!!!!!!!!!!!*!!  !!     !  *  !!!!!!! !!!!!*!!!!!!!!!* *!  !!
```

```
NTDB id 1166374 AB3Y88 RS02825 WP 261909401.1  KPLTAKELNEKYLALNQHYYGPSMQKDALIALEWTRIPHFYYNYYVYQYATGFAAASALAAKIRD...EGPKDYLRFLST  557
NTDB id 480 HSISS4 RS02090 WP 002890133.1      QILTADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKA  553
consensus                                       *!!!  *!  !  !! *!! *       !  !! !!!!!! !!!!!!!!!!!!!!!! !! !! ****! *  !! *!
```

logo

```
NTDB id 1166374 AB3Y88 RS02825 WP 261909401.1  GNSQYPLEAVKRAGVDMTTVEYLDAAFAIFQRRLAELEGLLRKKS...  602
NTDB id 480 HSISS4 RS02090 WP 002890133.1      GSSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS  601
consensus                                      ! ! !!!! *!*!!!!!!  *!!!!!!! *!  !! !!!*!* !  ***
```

X non conserved

X similar

X $\geq$ 50% conserved