```
logo
NTDB id 389848 F3I00 RS09135 WP 020807071.1  MALPTRNEVSDDLKWDLSRVFKNNQEWEQEYKQVAQEIKNLSKFKGTLAKSGKDLYEGITAILAVNRRLEKVYVYATMSS   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1    .MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYASMKN   79
consensus                                    *  * ! ** *   !!!* *!    *!! !!    !**!  ! * !*!  !*! ! *   * * !!!!!*!!!!*!

logo
NTDB id 389848 F3I00 RS09135 WP 020807071.1  DVDTSNNHYLGFVAKAQSLANQMSAAIAFVDPEILSIPEETLAKFMQDEPRLENYRHRLEQITQKRPHTLPANEEKIIAD  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1    DQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEELLAA  159
consensus                                    ! !!*  *!  * !!!  !  !*! ! !* *!! * ***  !! !   !! !  ! !  ! *   **! !*   ! **!

logo
NTDB id 389848 F3I00 RS09135 WP 020807071.1  AGDAMGTSANTFNVLTNSDMEYGYVQDEDGEMVQLSDGLYSLLIQSQDRNVRKNAFDVMYASYGQFENSLASTLSGEVKA  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1    AGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQGVVKV  239
consensus                                    !!!    *  !!!!! ! !* ***! !  !**! !**! *  !* ! !! *!! !** !!**! !! ** ! !! ! !!

logo
NTDB id 389848 F3I00 RS09135 WP 020807071.1  HNFNARVHKYNSAREAALSENSVPTAVYDTLIKEVNSHLDLLHRYVALRKKILGLKDLQMYDMYVPLTGKPVLSYNFEEA  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1    HNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSETET.ALTYEES  318
consensus                                    !!**!*!**!!!!!*!!!  ! *!  !!!*!*  !! !!*!!!!!* !!!!*!!! *! !!!*! !!*  * *   *!!

logo
NTDB id 389848 F3I00 RS09135 WP 020807071.1  KEEARKALAPLGEDYLKHVDYIFNNRVIDVVENQNKVTGAYSGGAYDTDPYELLNWEDNLDSLYTLVHETGHSVHSWYTR  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHSTFTR  398
consensus                                       !   !!* !!*! !*!*  !  ! !!!**!  ! *!!!!!!!!!! ** !!!! ! !! !*!!!!!!!!!*!! *!!

logo
NTDB id 389848 F3I00 RS09135 WP 020807071.1  NTQPYVYGDYPIFVAEIASTTNENILTEYFLDKITDPKTRAFVLNHYLDSFKGTLFRQTQFAEFEQFIHETDANGQPLTA  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1    QTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQILTA  478
consensus                                    *!!!!!!!!!!!!*!!!!!!!!!!!!!!!  !  * !*!!!  *!!!!!! !!!!*!!!!!!!!!!* !!!  !!  !!*!!!

logo
NTDB id 389848 F3I00 RS09135 WP 020807071.1  DVLDEFYGNLNQRYYGDSVEPGGEIAMEWSRIPHFYYNFYVYQYATGFAAATALANKVVHGTEQERDAYINFLKSGSSDY  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1    DFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGSSDY  558
consensus                                    ! *   !* !! *!!    !*  !!  !! !!!!!! !*!!!!!!!!!!!!!* !! !*!!!!! ***!!* *!! !!!!!
```

```
logo
                                                  PTEYMKRAGVDMTRTDYLRDAFKVFEKRLVELEKLVEKLVHLS
                                                  PLEIIKKAGVDMTNADYLDAAFDTFEDRLNEFELATVDEGNAEK

NTDB id 389848 F3I00 RS09135 WP 020807071.1      PTEIMKRAGVDMTRADYLRDAFDTFEKRLNEFEKIVDELNAEK   603
NTDB id 480 HSISS4 RS02090 WP 002890133.1        PLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                        ! !**!*!!!!!!  !!!  !!  !! !! ! ! *!*   *
```

X non conserved

X similar

X $\geq$ 50% conserved