```
logo
NTDB id 304073 UCCLB521 RS06950 WP 024855562.1  MKQIPKRSEVPTALTWDLTTIFPDEAAFKTAIAAIKAQITVVAGLKGQLAQSGVALYRVTTAVFDLNRQLERVYVYASLN   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1       ..MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYASMK   78
consensus                                       **  * !****   !!!!!!!!* *! * !        *    *  !*!  !*  !   !     ! ! !!**!!!!!*

logo
NTDB id 304073 UCCLB521 RS06950 WP 024855562.1  NDQDTGNAAAQALMGQAESLVATVGAATAWFEPEVLALSADQLQTLIDNDPRLADYQHVFDVLGQQRAHTLSVAEEKLLA  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1       NDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEELLA  158
consensus                                       !!!!!  *  !   * !  !   *  ! !*!!!! *!!    !    ***! !* ! ! !* !  ** ! !!   ! !!!

logo
NTDB id 304073 UCCLB521 RS06950 WP 024855562.1  GASDIFGASAKTYSVLSDADLKFPVVQDEAGNDVRLSEGLYGVLLQSTTPRVRQQAFEALYSVYQQFRHTFAATLASEVK  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1       AAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQGVVK  238
consensus                                       *! !!! **  !* !!  !!* !! ! !  !  ! !**! *  !* !  * *!  !*!!*!  ! !! !!*! !!   !!

logo
NTDB id 304073 UCCLB521 RS06950 WP 024855562.1  THNFSAETRHYASARAAAMSRNNVPAVVYDTLVETVNEHLDSLHRYVNLRKEILALPQLHMYDLYTPITGEPSLKYTYQE  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1       VHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSETE.TALTYEE  317
consensus                                        !!* !  !!! !!!*!!*  ! *!  !!!*!*!*!! !!* !!!!* !!! *!*!* !*!!!*!!!**  **   !! !

logo
NTDB id 304073 UCCLB521 RS06950 WP 024855562.1  AQEMALKALAVLGPDYTANVQKMFDGRAIDVVENQGKRTGAYSGGMYDTKPYILLNWQDSLESLFTLVHEMGHSMHSHYT  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1       SLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHSTFT  397
consensus                                           !   !!* !**!*  !*  !  ! !!!**! !!!*!!!!!! !!! ***!!!!!!*!* !!!!!!! !!!*!!**!

logo
NTDB id 304073 UCCLB521 RS06950 WP 024855562.1  RTNQPYQYGDYSIFVAEIASTTNENLLTDYLLKTQTDPKVRAYVLNHYLDGFKGTVYRQTQFAEFEDYIHQQDAAGETLT  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1       RQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQILT  477
consensus                                       !  !!! !!!!*!!*!!!!!!!!!!*!!* !!!   !*! !  *!!!!!!!!!!!!*!!!!!!!!!* !!  !! ! !!

logo
NTDB id 304073 UCCLB521 RS06950 WP 024855562.1  ADFMSDFYGKLNQRYYGDGVISDPQIADEWTRIPHFYYDYYVYQYATGFAAATTLSQRILSGDEAKRDAYLAYLKAGSSA  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1       ADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGSSD  557
consensus                                       !!!!   !* !! *!!       * !  !! !!!!!!  !!!!!!!!!!!!!* !  *!**! !  **!!! !!!!!!!
```

```
logo

NTDB id 304073 UCCLB521 RS06950 WP 024855562.1  LPLDVMKQAGVDMTQPGYLQTAFATFDERLAEFTQLAHELK...   601
NTDB id 480 HSISS4 RS02090 WP 002890133.1       YPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                        !!*!*! !!!!!!** !!  !!  !**!! !   ! *   ***
```

X non conserved

X similar

X $\geq$ 50% conserved