```
logo
NTDB id 304043 UCCLBBS449 RS05290 WP 042522162.1  MKQIPKRSEVPTALTWDLTTIFPDEAAFKTAIAAIKAQTTVVAGLKGQLAQSGAALYRVTTAVFDLNRQLERVYVYASLN   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1         ..MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYASMK   78
consensus                                         **  * !****   !!!!!!!!* *! * !            *  !*!  !*  !  !     ! ! !!**!!!!!*

logo
NTDB id 304043 UCCLBBS449 RS05290 WP 042522162.1  NDQDTGNAAAQALMGQAESLVATVGAATAWFEPEVLALSADQLQTLIDNDPRLADYQHVFDVLGQQRAHTLSVAEEKLLA  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1         NDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEELLA  158
consensus                                         !!!!!  *  !   * !  !   *  ! !*!!!! *!!    !    ***! !* ! ! !* !  ** ! !!   ! !!!

logo
NTDB id 304043 UCCLBBS449 RS05290 WP 042522162.1  GASDIFGASAKTYSVLSDADLKFPVVQDEAGNDVRLSEGLYGVLLQSTTPRVRQQAFEALYSVYQQFRHTFAATLASEVK  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1         AAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQGVVK  238
consensus                                         *! !!! **  !* !!  !!* !! ! !  !  ! !**! *  !* !  * *!  !*!!*!  ! !! !!*! !!   !!

logo
NTDB id 304043 UCCLBBS449 RS05290 WP 042522162.1  THNFSAETRHYASARAAAMSRNNVPAVVYDTLVETVNDHLDSLHRYVNLRKEILALPQLHMYDLYTPITGEPSLKYTYQE  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1         VHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSETE.TALTYEE  317
consensus                                          !!* !  !!! !!!*!!*  ! *!  !!!*!*!*!! !!* !!!!* !!! *!*!* !*!!!*!!!**  **   !! !

logo
NTDB id 304043 UCCLBBS449 RS05290 WP 042522162.1  AQEMALKALAVLGPDYTANVQKMFDGRAIDVVENQGKRTGAYSGGMYDTKPYILLNWQDSLESLFTLVHEMGHSMHSHYT  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1         SLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHSTFT  397
consensus                                            !   !!* !**!*  !*  !  ! !!!**! !!!*!!!!!! !!! ***!!!!!!*!* !!!!!!! !!!*!!**!

logo
NTDB id 304043 UCCLBBS449 RS05290 WP 042522162.1  RTNQPYQYGDYSIFVAEIASTTNENLLTDYLLKTQTDPKVRAYVLNHYLDGFKGTVYRQTQFAEFEDYIHQQDAAGETLT  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1         RQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQILT  477
consensus                                         !  !!! !!!!*!!*!!!!!!!!!!*!!* !!!   !*! !  *!!!!!!!!!!!!*!!!!!!!!!* !!  !! !  !!

logo
NTDB id 304043 UCCLBBS449 RS05290 WP 042522162.1  ADFMSDFYGKLNQRYYGDGVISDPQIADEWTRIPHFYYDYYVYQYATGFAAATTLSQRILSGDEAKRDAYLAYLKAGSSA  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1         ADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGSSD  557
consensus                                         !!!!   !* !! *!!       * !  !! !!!!!!  !!!!!!!!!!!!!!* !  *!**! !  **!!! !!!!!!!
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logo
                                                  YPLEVMKQAGVDMTQTGYLQTAFKVFEERLYELTQLVHKLV
                                                  LPLDVIKKAGVDMTNPDYLDAAFATFDDRLAEFEALAEEGNHLS
NTDB id 304043 UCCLBBS449 RS05290 WP 042522162.1  LPLDVMKQAGVDMTQPGYLQTAFATFDERLAEFTQLAHELN...   601
NTDB id 480 HSISS4 RS02090 WP 002890133.1         YPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                          !!*!*! !!!!!!** !!  !!  !**!! !   ! *   ***
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X non conserved

X similar

X ≥ 50% conserved