```
logo
NTDB id 210531 BUE77 RS07665 WP 006587781.1  MVLPTRNEVPKELTWDLTRVFPNDQAWQKEFKSVSNEIDKLSSLSTIITKSGSDLYSALTQIFSIDRRLEKVYVYATMSR   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1    .MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYASMKN   79
consensus                                    ** * ! ***   !!!!! *!* !  !  !* !  *** ! !    **  !*  !  !     !* !!!!!*!!!!*!

logo
NTDB id 210531 BUE77 RS07665 WP 006587781.1  DVDTSNNHYLGFAAMAEDLANKYSSVISFVNPAILSLSDQNLKKFELQEPKLAHYKHYLDQITNKRQHTLDAQAEQIIAA  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1    DQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEELLAA  159
consensus                                    ! !!*  *!  * ! !  !   !   *  !  * ! !  !  !  !!! !**! !! * *   * ! !   !! **!!

logo
NTDB id 210531 BUE77 RS07665 WP 006587781.1  SGAALNSSSNTYNVLTNSDMEFGYTTDNDGEMVQLSEGLYSQLIQSPQRSVRQNAFETLYASYGQFQNTLASTLSGNVKA  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1    AGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQGVVKV  239
consensus                                     !   ! ** !*!!! ! !* !** *!  !**! !**! *  !* !* ! *!  !*! *!**! !!!*! ! !! ! !!

logo
NTDB id 210531 BUE77 RS07665 WP 006587781.1  QNYAALMHGYANAKEASLSQNNIPVSVYDNLVNGVHKHLDLLHRYMKLRKKVLGLQNLEMYDLYVPITGTPSLRYSYKEA  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1    HNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSETET.ALTYEES  318
consensus                                    *!! ! ***!  !**! !  ! !! !!!! !*  !*!!!*!!!!!* !!!!!!!!  ! !!!*! !** !***  *! !

logo
NTDB id 210531 BUE77 RS07665 WP 006587781.1  KDQAREALSILGKEYLDQVDYIFNNRVIDVVESKSKVTGAYSGGSYDTDPYELLNWTNDFDALYTLVHETGHSVHSAFTR  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHSTFTR  398
consensus                                       ! ! ! ! ! !!   !*  !  ! !!!** ! ! *!!!!!! !!! ** !!!!    ! !*!!!!!!!!!*!! !!!

logo
NTDB id 210531 BUE77 RS07665 WP 006587781.1  KNQPYVYGEYPIFLAEIASTTNENILTEYLLSKTTDPKIRAFILNYNLEAFRTTLYRQTQFAEFEQFIHEADQNGEPLTA  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1    QTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQILTA  478
consensus                                     !!!!!!*!!!!!!!!!!!!!!!!!!!! !!    !*! !  !!!* !**!* !**!!!!!!!!!* !!!!!   ! *!!!

logo
NTDB id 210531 BUE77 RS07665 WP 006587781.1  ERLNTFYGELNQKYYGIVE.PGSDIDKEWARIPHFYYNFYVYQYSTGFAAAVALAKNIVHGTDKQKTDYLNFLKAGSSEY  559
NTDB id 480 HSISS4 RS02090 WP 002890133.1    DFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGSSDY  558
consensus                                    * *!  !**!! !!! *  **  *!  !! !!!!!! !*!!!!! !!!!!!  !!  !!!!!*  !  !! *!!!!!*!
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logo
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NTDB id 210531 BUE77 RS07665 WP 006587781.1   PIDIMKKAGVDMTTSAYLDSAFSVFEQRLNELEKLL.......   595
NTDB id 480 HSISS4 RS02090 WP 002890133.1     PLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                     !****!!!!!!!! * !!! !! !!! !! !!! !********
```

X non conserved

X similar

X $\geq$ 50% conserved