```
logo
NTDB id 1165957 AB3225 RS03395 WP 076787487.1  MSTQQLPTRDAVPEKLTWDLTTIFKNDAAFEVAFKKVKTQLPTLKT.LDRPFESADQLVATIEQILATFRQLETIYVYAS   79
NTDB id 480 HSISS4 RS02090 WP 002890133.1      ....MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYAS   76
consensus                                      ****  * ! ***!! !!!!!!!!  !! *!  *      !*    *  ** *!! *!**  !  *   ! !! !!!!!!

logo

NTDB id 1165957 AB3225 RS03395 WP 076787487.1  MKNDQDTANATYQGYQAQVDSLAAEVSAAAAFLEPAILAIPAGQLADWLTKTPNLAVYSHFIQTITDSRDHVLSGQEEAL  159
NTDB id 480 HSISS4 RS02090 WP 002890133.1      MKNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEEL  156
consensus                                      !!!!!!!  * !! !!!    !   *! ! !* !!  *!**   !!**    ! **! !*   *   *!!!!!   ! !

logo

NTDB id 1165957 AB3225 RS03395 WP 076787487.1  LAAAGDIFSAASQTFSVLDNSDLQFPEVTDENGQTLQLSDGVYSQLLQSTNRSVRQAAFEALYKTYGQFKNTFATTLATE  239
NTDB id 480 HSISS4 RS02090 WP 002890133.1      LAAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQGV  236
consensus                                      !!!!!!!! *** !! !!!! !* !! !*! *!  * !**! *  !* !  ! *! *!*!!*! !! !! *!*! !!

logo

NTDB id 1165957 AB3225 RS03395 WP 076787487.1  IKGHNYLAQVHHYDSARQAALAPKAIPEAVYTTLVDQVNQHLPLLHRYTELRKKQLNLSELHMFDLYTPLLGKPALTYTY  319
NTDB id 480 HSISS4 RS02090 WP 002890133.1      VKVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSET.ETALTY  315
consensus                                      *! !!! ! !*!! !!!*!!!!*  !!! !! *!** !! !!!!!!!! *!!!! ! ! !!*!*!*!!!!    *    !!

logo

NTDB id 1165957 AB3225 RS03395 WP 076787487.1  EQAQATAKEALSILGPDYAKQVTHIVDDRLIDVCENQGKRSGAYSGGAYDTNPFILLNWQDDLNNLYTLVHETGHSVHSA  399
NTDB id 480 HSISS4 RS02090 WP 002890133.1      EESLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHST  395
consensus                                      !      ! ! ! ! !**! ! !**   *! !!! *! !!!!!!!!!!!!!!!*!*!!!!!! ! !!*!!!!!!!!!*!!

logo

NTDB id 1165957 AB3225 RS03395 WP 076787487.1  FTRQTQDYVYGDYPIFVAEIASTTNENLLTEYLLQTQSDPKVQAYLLNYYLDGFKGTVFRQTQFAEFEHAMHAAAANGQP  479
NTDB id 480 HSISS4 RS02090 WP 002890133.1      FTRQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQI  475
consensus                                      !!!!!!*!!!!!!!!!!*!!!!!!!!!!*!!!  !!     !*!    *!!*!!!!!!!!!!!!!!!!!!!!!!*! ! !!*

logo

NTDB id 1165957 AB3225 RS03395 WP 076787487.1  LTAEFMSQQYADINSRYYGPAVVNDPQIALEWTRIPHFYMNYYVYQYATGFAAATTLANGISTKQPGALDHYLDYLKAGS  559
NTDB id 480 HSISS4 RS02090 WP 002890133.1      LTADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGS  555
consensus                                      !!!*!!   !!!*! *!! *     *  !  !! !!!!!!!!!!!!!!!!!!!!!* !!  ! *  *   **!! !!!!!!
```

```
logo

NTDB id 1165957 AB3225 RS03395 WP 076787487.1  SAYPIEIMQQAGVDMTSADYLERAFAVFEERLDQLEALLANLN...   602
NTDB id 480 HSISS4 RS02090 WP 002890133.1      SDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                      ! !!*!**  !!!!!!  !!!* !! !!!*!!  !!!!*    ***
```

X non conserved

X similar

X $\geq$ 50% conserved