```
logo
NTDB id 252100 CG478 RS09710 WP 011983996.1  MSEQNAGKVLPDRSEIEEKNTWRLEDIFQTDEAWEKEFQAIKELLPKLNEFKGKLGDSAESLLAALQYEDEISMRLGKLY   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1    ........MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIY   72
consensus                                    ********* * !***!!! !! !  !! !!  !! !*      !*!   * !*! !!!  !!*!      *  !! !*!

logo
NTDB id 252100 CG478 RS09710 WP 011983996.1  TYAHMRYDQDTTNSTYQALNDRAMNLYSQVSSSTAYIVPEILKISQELLQSFLQENKELRVYEHALEEITRQRPHVLSEA  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1    VYASMKNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQE  152
consensus                                     !!*!* !!!!!   !!  * *! !!!!!*!   !!  !! * *    !  !    * ! *!*!  ! *  ***!!!!

logo
NTDB id 252100 CG478 RS09710 WP 011983996.1  EESLLAEAAEVMSSSSNTFGMLNNADLKFPSIKDENGEEVEVTHGRYIQFLESDDRRVRHDAFHAVYETYGKFKNTFAST  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1    AEELLAAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQT  232
consensus                                     ! !!! !***   ** !! *! !!!* !! * ! *!* !!*!!! *!  *!! !! *!* !**!*! !!  ! *!*! !

logo
NTDB id 252100 CG478 RS09710 WP 011983996.1  LSGAVKRNNFNARVRKYDSARQAALSNNHIPETVYDQLIETVHNHLHLLHRYIDIRKRALKLDELHMYDLYTPLVPEVKM  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LQGVVKVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSET.ET  311
consensus                                    ! ! !! *!**!*!!*! !!!*!!!  !*!!!*!!! !*!*!* !! !!!!!*!*!!* ! !!!!*!!!*!!!! * *

logo
NTDB id 252100 CG478 RS09710 WP 011983996.1  NVKYEEAQEILLKSLHVLGDEYVDILKEAYENRWVDVYENKGKRSGAYSSGAYGTNPYILMNWHDNVNNLFTLAHEFGHS  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1    ALTYEESLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHS  391
consensus                                     * !!!         !** !*!!   ** !*  !!*!!**!!!!!!!!!! !!! !!***!*!!*! * !!!!! !! !!!

logo
NTDB id 252100 CG478 RS09710 WP 011983996.1  VHSYYTRKTQPHVYGDYSIFVAEVASTCNEALLNDYLLKTTEDKKERLYLLNHYLEGFRGTVFRQTMFAEFEHIIHQKVQ  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LHSTFTRQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADA  471
consensus                                    *!! *!! !!!*!!!!!*!!*!!*!!!*!! *! * !!!   ! ! !  *!!!!!*!!*!!!!!!! !!!!!! !!

logo
NTDB id 252100 CG478 RS09710 WP 011983996.1  EGHAVTPDMLTEIYYDLNKTYFGDAVVIDKEIGLEWSRIPHFYYNYYVYQYATGFSAATALSKQILEEGKPAVERYINEF  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1    SGQILTADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAY.LTY  550
consensus                                     !* *!*! *  *! !!!  !*        !!  !! !!!!!! !!!!!!!!!!! !!* !   !**   *  ! !*  *
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logo
NTDB id 252100 CG478 RS09710 WP 011983996.1  LKAGSSDYPIEVLKKAGVDMTSPEPVKEALQVFEEKLNELEALLFEKK...   608
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LKAGSSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                    !!!!!!!!!*!!*!!!!!!!!! ****  !  !!!**! !!!!!*    ***
```

X non conserved

X similar

X $\geq$ 50% conserved