```
logo
NTDB id 296129 DNQ11 RS06470 WP 000003398.1  MSEQNTAKTLPDRNEIEESSTWRLEDIFQTDTEWEKEFQAIKELLPKLTEFKGKLGDSANNLLEALQYEDEISMRLGKLY   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1    ........MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIY   72
consensus                                    ********  * ! **!!  !! !  !! !! *!! !*     !*! * * !*! !!! !!! !      *  !! !*!

logo
NTDB id 296129 DNQ11 RS06470 WP 000003398.1  TYAHMRYDQDTTNSVYQALNDRATNLYSQVSSSTAYIVPEILSISEDTLQTFLKENRDLSVYEHALEEITRQRPHVLSEA  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1    VYASMKNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQE  152
consensus                                     !!*!* !!!!!  *!!  * *!*!!!!!*!   !!  !! * * *  !  !    * ! *!*!  ! *  ***!!!!

logo
NTDB id 296129 DNQ11 RS06470 WP 000003398.1  EEALLAEASEVMSTSSNTFGMLNNADLKFPSIKGEDGEEVEITHGRYIQFLESDDRRVREDAFKAVYETYGKYKNTFAST  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1    AEELLAAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQT  232
consensus                                     ! !!! ! **   ** !! *! !!!* !! *    !* !!*!!! *!  *!! !! *!  !* !*! !!  * *!*! !

logo
NTDB id 296129 DNQ11 RS06470 WP 000003398.1  LSGAVKRNNFNARVRKYDSARQAALSNNNIPEAVYDQLIESVNDNLHLLHRYIDIRKRALGLDELHMYDLYTPLVPEVKM  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LQGVVKVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSET.ET  311
consensus                                    ! ! !! *!**!*!!*! !!!*!!!  ! !!! !!! !*!!!! *! !!!!!*!*!!* !!!!!!*!!!*!!!! * *

logo
NTDB id 296129 DNQ11 RS06470 WP 000003398.1  NVKYEEAQDMLLKSLHVLGDEYVDILKEAYENRWVDVYENKGKRSGAYSSGAYGTNPYILMNWHDNVNNLFTLAHEFGHS  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1    ALTYEESLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHS  391
consensus                                     * !!!         !** !*!!   ** !*  !!*!!**!!!!!!!!!! !!! !!***!*!!*! * !!!!! !! !!!

logo
NTDB id 296129 DNQ11 RS06470 WP 000003398.1  VHSYYTRKTQPHVYGDYSIFVAEVASTCNEALLNDYLLKTTEDKKERLYLLNHYLEGFRGTVFRQTMFAEFEHIIHKKVQ  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LHSTFTRQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADA  471
consensus                                    *!! *!! !!!*!!!!!*!!*!!*!!!*!! *! * !!!   ! ! !  *!!!!!*!!*!!!!!!! !!!!!! !!

logo
NTDB id 296129 DNQ11 RS06470 WP 000003398.1  EGHAVTPDMLTEIYYDLNKKYFGDALVIDEEIGLEWSRIPHFYYNYYVYQYATGFSAATALSKQILEEGQPAVERYINEF  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1    SGQILTADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAY.LTY  550
consensus                                     !* *!*! *  *! !!! !!*        !!  !! !!!!!! !!!!!!!!!!! !!* !   !**   *  ! !*  *
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logo
NTDB id 296129 DNQ11 RS06470 WP 000003398.1  LKAGSSDYPIEVLKKAGVDMASPEPVKEALQVFEEKLNELEALLFEEK...   608
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LKAGSSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                    !!!!!!!!!*!!*!!!!!!!  ****  !  !!!**! !!!!!*    ***
```

X non conserved

X similar

X $\geq$ 50% conserved