```
logo
NTDB id 1004004 AAEY33 RS06445 WP 347941628.1  MAQETKANTLPSRSEIAPEDTWRLEDIFATEEDWEAAFKAVKEDLKKAEGHKGTLGESAEKLFAALQLQDEVFEKLGKVY   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1      ........MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIY   72
consensus                                      ********  * !*** *  !! !  !!!!* !!!  *    !!!!! ** !*! *!!  ! *!  !   *  *! !*!

logo
NTDB id 1004004 AAEY33 RS06445 WP 347941628.1  SYSHMRNDQDTTNPFYQGMEDRAKALYAQAAAAFSFMVPELLSIDENKVEGFLEEKEDLKLYKHSLEEINLQRPHILSAE  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1      VYASMKNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQE  152
consensus                                       ! *!*!!!!!! * !!    *!  !! !   !! *  !! * *!* !*  ! !  * ! !! !  ! *  ***!*!! !

logo
NTDB id 1004004 AAEY33 RS06445 WP 347941628.1  QEELLAQASEVLDASGNTFGMLNNADLKFPTIKDEEGNEVEITHGRYISFLESEDRRVREEAFKGVYRKYGEFRNTFAST  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1      AEELLAAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQT  232
consensus                                       !!!!! ! **  **  !! *! !!!* !! * !  !  !!*!!! *!* *!! !! *!  !* **!  !  ! *!*! !

logo
NTDB id 1004004 AAEY33 RS06445 WP 347941628.1  LSGEVKNHNFNATVRKYESARQAALSNNNIPETVYDNLVKTVNDNLPLLHRYLDLRKKVLQLDELHMYDLFTPLVKEVKM  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1      LQGVVKVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSET.ET  311
consensus                                      ! ! !! !!**! !!*! !!!*!!!  ! !!!*!!! !* *!! *!!!!!!!!!!!!!!! !!!!*!!!**!!!   *

logo
NTDB id 1004004 AAEY33 RS06445 WP 347941628.1  EVTYDDAKDYVLKGLAPLGEDYLNVLKEGFENRWVDVHENKGKRSGAYSSGTYGTNPYILMNWQNNVNNLFTLVHEFGHS  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1      ALTYEESLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHS  391
consensus                                       *!!**        !!* !!*!   ** *!  !!*!!!*!!!!!!!!!! ! ! !!***!*!!!  * !!!!!!!! !!!

logo
NTDB id 1004004 AAEY33 RS06445 WP 347941628.1  VHSYYTRKYQPYPYGNYSIFVAEVASTCNENLLNDYLLNSIEDEKKRIYLLNHYLEGFRGTLFRQTMFAEFEHTIHLKAQ  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1      LHSTFTRQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADA  471
consensus                                      *!! *!!   !!!*!! !*!!*!!*!!!*!!!*! * !!  * !*! !  *!!!!!*!!*!!*!!!! !!!!!! !!

logo
NTDB id 1004004 AAEY33 RS06445 WP 347941628.1  NGEALTADMLTKEYYELNKKYFGENVTIDEEIGLEWARIPHFYYNYYVYQYATGISAATALSKQILEEGEPAVKRYLEFL  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1      SGQILTADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYL  551
consensus                                       !  !!!! * ! ! *!! !!*        !!  !! !!!!!! !!!!!!!!!!  !!* !   !**  !*    !! *!
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logo
NTDB id 1004004 AAEY33 RS06445 WP 347941628.1  KSGSSDYPIEVLKKAGVDMTKAEPVQEAMNVFEEKLNELEELLNK.....  605
NTDB id 480 HSISS4 RS02090 WP 002890133.1      KAGSSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS  601
consensus                                      ! !!!!!!*!!*!!!!!!!!  ***  !  !!!**! !!! !* !*****
```

X non conserved

X similar

X $\geq$ 50% conserved