```
logo
NTDB id 964462 NSU02 RS05965 WP 339194733.1  MGNETAVKRLPKREEIPVEYTWRLEDIFASDDEWEKEFEEVKQLIPKIGEYRGKLGQSSDLLYEALSYQDSVMERLGKLY   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1    ........MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIY   72
consensus                                    ********  * ! ***  !!! !  !!!*! *!! !*!   ! **!   ! !*!  !   !  !     !*! !! !*!

logo
NTDB id 964462 NSU02 RS05965 WP 339194733.1  TYAHMRYDQDTTNSFYQGLNDRAANLYTQASSLSSYIVPEILSIEEEKLQQFLKENDQLKLYAHALDEINRQRPHVLDAE  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1    VYASMKNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQE  152
consensus                                     !!*!* !!!!!   !!  * *! !!!*! !    !  !! * *** !!  !    * ! !! !  * *  ***!!!  !

logo
NTDB id 964462 NSU02 RS05965 WP 339194733.1  QEAILAQAAEALSTASNTFGKLNNADLEFPAIKDENGEEVEITHGRYIQFLESENRRVRRDAFQALYATYGKFKNTFAST  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1    AEELLAAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQT  232
consensus                                     ! *!! !**    ** !!  ! !!!* !! * ! *!* !!*!!! *!  *!!  ! *!* !* !*!*!!  ! *!*! !

logo
NTDB id 964462 NSU02 RS05965 WP 339194733.1  LSGAVKKNNFYAKVRKYENARQAALSANNIPEEVYDNLVKTINEHLPLLHRYVDLRKKALKLDELHMYDLYTPLVQNVDM  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LQGVVKVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSET.ET  311
consensus                                    ! ! !! *!* !!!!*!  !!*!!! !! !!! !!! !* **! !!!!!!!!*!!!!! ! !!!!*!!!*!!!!   **

logo
NTDB id 964462 NSU02 RS05965 WP 339194733.1  KITYEEAKDIVLKGLAPLSEEYVGILQEGFENRWIDVKENKGKRSGAYSSGAYGTNPYILLNWQDNVNNLFTLVHELGHS  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1    ALTYEESLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHS  391
consensus                                     *!!!!         !!*  !!!   ** *!  !!!!!**!!!!!!!!!! !!! !!***!!!!!! * !!!!!!!! !!!

logo
NTDB id 964462 NSU02 RS05965 WP 339194733.1  VHSYYTRKTQPYPYGDYSIFVAEVASTCNENLLNEYLLNTIDDEKKRLYLLNHFLEGFRGTVFRQTMFAEFEHYIHLKAQ  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1    LHSTFTRQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADA  471
consensus                                    *!! *!! !!!!*!!!!*!!*!!*!!!*!!!*! ! !!   * !*! !  *!!!*!*!!*!!!!!!! !!!!!! !!

logo
NTDB id 964462 NSU02 RS05965 WP 339194733.1  NGEPLTPEFLTQTYYELNKKYFGDNIVVDEEIGLEWARIPHFYYNFYVYQYATGFSAASALSKQILSEGETAVERYINFL  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1    SGQILTADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYL  551
consensus                                     ! *!!**!*   ! *!! !!*        !!  !! !!!!!! !*!!!!!!!!! !!! !   !**  !   ! !* *!
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logo
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NTDB id 964462 NSU02 RS05965 WP 339194733.1   KAGSSDYPINVLKKAGVDMTSTKPIEDACKVFEEKLTEMEELLLK.....   605
NTDB id 480 HSISS4 RS02090 WP 002890133.1     KAGSSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                     !!!!!!!!* !*!!!!!!!! ! *** !*!!!!**! !*! !* !*****
```

X non conserved

X similar

X $\geq$ 50% conserved