```
logo
NTDB id 37610 HMPREF0837 RS07225 WP 000244158.1  MVLQRNERNEINEKDTWDLSTIYPTDQAWEEALKDLTEQLETVAQYEGHLLDSADNLLEITEFSLEMERQMEKLYVYAHM   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1        ...MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYASM   77
consensus                                        ***     ! ** !! !!!!*!!**!!  !!          !     ! !!!!!!! !!!  !!  * * ! *!!*!!!!*!

logo
NTDB id 37610 HMPREF0837 RS07225 WP 000244158.1  KNDQDTREAKYQEYYAKAMTLYSQLDQAFSFYDPEFMEISEKQYADFLEAQPKLQVYQHYFDKLLQGKDHVLSQREEELL  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1        KNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEELL  157
consensus                                        !!!!!!  * !!!! !!!  !!!!!  !! ***!!!! * *!  !*! !  ! ! *! !!!**!!  !!!!!!!  !!!!

logo
NTDB id 37610 HMPREF0837 RS07225 WP 000244158.1  AGAGEIFGSASETFAILDNADIVFPYVLDDDGKEVQLSHGTYTRLMESKKREVRRGAYQALYATYEQFQHTYAKTLQTNV  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1        AAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQGVV  237
consensus                                        !*!!*!!  ***!! *!!!!!!*!!*! !  !  ! !*!! *  !!!!! !**!*!!! !*!*!!!!!!!!!! !!!  !

logo
NTDB id 37610 HMPREF0837 RS07225 WP 000244158.1  KVQNYRAKVRNYNSARHAALAANFYPESVYDNLVAAVRKHLPLLHRYLELRSKILGISDLKMYDVYTPLSSVEYNFTYQE  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1        KVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSETETALTYEE  317
consensus                                        !!*!! !!!!*! !!!!!!!!!!!*!!!!!! !*  ! !!!!!!!!!!*!! !*!!* *!!!!!!!!!!!  !   !! !

logo
NTDB id 37610 HMPREF0837 RS07225 WP 000244158.1  ALKKAEDALAVLGEDYLSRVKRAFSERWIDVYENQGKRSGAYSGGSYDTNAFMLLNWQDNLDNLFTLVHETGHSMHSSYT  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1        SLKKAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHSTFT  397
consensus                                         !!!!!* !!* !!*!    !* !!*!!!!!!**! !!!!!!!!!! !!!!!!!!!!!!! !!!!!!!!!!!!!!*!!**!

logo
NTDB id 37610 HMPREF0837 RS07225 WP 000244158.1  RETQPYVYGDYSIFLAEIASTTNENILTEKLLEEVEDDATRFAILNNFLDGFRGTVFRQTQFAEFEHAIHQADQNGEVLT  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1        RQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQILT  477
consensus                                        !  !!!!!!!!!!*!!!!!!!!!!!!!!!!!! !! !! !! !!!!!!!**!!!!*!!!!!!!!!!!!!!!!!! !!   ! *!!

logo
NTDB id 37610 HMPREF0837 RS07225 WP 000244158.1  SDFLNKLYADLNQEYYGLSKEDNPEIQYEWARIPHFYYNYYVYQYSTGFAAASALAEKIVHGSQEDRDRYIDYLKAGKSD  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1        ADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGSSD  557
consensus                                         !!*!!!!!!!!  !! !  !!!*!!!*!! !!!!!! !!!!!!! !!!!!!! !!!!!!!!* !!** !* !!!!! !!
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logo                                                  YPLNVMRKAGVDMEKEDYLNDAFAVFERRLNEFEALVEKLGLA.   603
NTDB id 37610 HMPREF0837 RS07225 WP 000244158.1       YPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
NTDB id 480 HSISS4 RS02090 WP 002890133.1             !!! !**!!!!!!   !!!  !! !!! !! ! !!!!!!  * *
consensus
```

X non conserved
X similar
X $\geq$ 50% conserved