```
logo

NTDB id 176247 SporoP33 RS07440 WP 081243129.1  ......MKKRYLIPTVILLSLLSLFVGASRITPADLLDWRSEETEIFLISRVPRLVAILLAGAGMSIAGLIMQQLSRNKF   74
NTDB id 1235 CJJ81176 RS06500 WP 002869322.1    MFFKHILSLKVLIALLLFFGMISLFIGVISINVKDILNLNSTQLEIITLTRIPRLIAILLTGMSLSICGLIMQQLTQNKF   80
consensus                                       *******  * !!* **   **!!!*!   ! * !*!   !   !!  **!*!!!*!!!! !  *!!*!!!!!!!* !!!

logo

NTDB id 176247 SporoP33 RS07440 WP 081243129.1  VSPTTAGTLDATKLGILVSMLIFTNATLLEKMAVSFTFALISTFLFMQILDRIKFKDAIFIPLVGLMFGNILSSISTFFA  154
NTDB id 1235 CJJ81176 RS06500 WP 002869322.1    VSPTTAGTMDCAKFGILISLIFFAGASFFTQAIIASVFALLGSFIFIQILRKIKLKDVIFVPLIGLMFGGIISAITTFFA  160
consensus                                       !!!!!!!!*!* ! !!!*!** !  !*      *   !!!* *!*!*!!! *!! !! !!*!!*!!!!! !*! !*!!!!

logo

NTDB id 176247 SporoP33 RS07440 WP 081243129.1  YKANVIQNMSAWLQGDFSMIMKGRYELLYISIPVLIITYLYANRFTVAGMGEDFSKNLGLAYKRIVNTGLILVALITTTV  234
NTDB id 1235 CJJ81176 RS06500 WP 002869322.1    YALNYIQNIQGWLQGSMANVMQGNYELLYISLPLFILAYFLAHKITIVGMGEDIALNLGISYNGILFLGLMIVSIITSLV  240
consensus                                       !  ! !!!* *!!!!    *! ! !!!!!!!*!* !* !  !** !* !!!!!   !!!* !  !*  !!**! *!!* !

logo

NTDB id 176247 SporoP33 RS07440 WP 081243129.1  VLTVGLIPFLGLIIPNIVSIFKGDHLQKTLPHTALLGAIFLLICDILGRVIIFPYEISISLMVGVIGSGIFLYLLFRRKA  314
NTDB id 1235 CJJ81176 RS06500 WP 002869322.1    IVSVGIIPFLGLIIPNLVALYLGDNLRKNLIYIALCGALFLLVCDIISRLVIFPFEMPLSITTGVLGSLIFIFLLLKRKA  320
consensus                                       ***!!*!!!!!!!!!!!*! ** !!*! ! !** !!*!!*!!!*!!!* !**!!!*!***!*  !!*!! !!**!! *!!!

logo

NTDB id 176247 SporoP33 RS07440 WP 081243129.1  YA   316
NTDB id 1235 CJJ81176 RS06500 WP 002869322.1    YA   322
consensus                                       !!
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X non conserved

X similar

X $\geq$ 50% conserved