logo

```
NTDB id 1119571 EL081 RS03595 WP 126404005.1  MVKQRNEIDEKYQWDLSTIFATDQAWEEEATALAAAIKDAAHFAGSLLSSPANLLETTEVYLDLSRRLEKVYVYAHMKND  80
NTDB id 480 HSISS4 RS02090 WP 002890133.1     MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYASMKND  80
consensus                                     !  *! ***!!! !!!*!!!!!!  !! !        *! ! **!!*!! !* !!!  !!*!* ! !!!!!*!!!!*!!!!
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logo

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NTDB id 1119571 EL081 RS03595 WP 126404005.1  QDTRVAKYQEFQSKAMSLYSFLGETFAFYEPEFMEITEEQYANFLKEVPALEAYAHYFDKLLKTKEHVLSQKEEELLAGA  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1     QDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEELLAAA  160
consensus                                     !!! !* !!!*! !!  !!! ! ! !!**!!!!! * *   ! !   !*!  ! !!!**!!  !*!!!!!  !!!!!*!
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logo

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NTDB id 1119571 EL081 RS03595 WP 126404005.1  GEIFAAAGETFEILDNADIVFPMVKDDQGQEVQLTHGNYISLVESKDRQVRKEAYQALYGVYEQYQHTYAKTLQTNVKVH  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1     GDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQGVVKVH  240
consensus                                     !*!! ** *!! *!!!!!!*!! ! ! !!  ! !!!!*!*!*!!!!! *!! !! !*!! !!!*!!!!! !!!  !!!!
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logo

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NTDB id 1119571 EL081 RS03595 WP 126404005.1  NYNAKVRKFSSAREAALSANFIPESVYDSLVEAVNKHLPLLQRYVKLRSKILGIEDLKMYDVYTPLSSTDYKFTYEEALA  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1     NYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSETETALTYEESLK  320
consensus                                     !!*!!!!** !!!*!!! !!!!!!!!!!!!!*! !!!!!!!!*!!* !! !*!!***!!!!!!!!!!! !*   !!!! !
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logo

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NTDB id 1119571 EL081 RS03595 WP 126404005.1  KSEQALAVLGDDYLSRVKRAFTERWIDVHVNQGKRSGAYSGGSYDTNAFMLLNWQDTLDNLFTLVHETGHSMHSSYTRET  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1     KAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHSTFTRQT  400
consensus                                     ! !   !!* !**!   !* !!!!!!!!!*! !!!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!*!!**!! !
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logo

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NTDB id 1119571 EL081 RS03595 WP 126404005.1  QPYVYGDYSIFLAEIASTTNENILTEQLLAEVEDDETRFAILNHFLDGFRGTVFRQTQFAEFEHAIHKADQEGQVLTSEF  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1     QPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQILTADF  480
consensus                                     !!!!!!!!*!!!!!!!!!!!!!!!!!!! !! !! !! !!!!!!!!*!!!!*!!!!!!!!!!!!!!!!!! !!   !!*!! *!
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logo

```
NTDB id 1119571 EL081 RS03595 WP 126404005.1  LNELYADLNEKYYGLSKEDNSEIQYEWARIPHFYYNYYVFQYSTGFAAASALAEKIVHGTQEDKDKYIEYLKAGNSDYPL  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1     MNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGSSDYPL  560
consensus                                     *! !!!!!!!!!! !  !!! !!!*!! !!!!!! !!!!*!! !!!!!!! !!!!!!!!! !!!* !* !!!!! !!!!!
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logo

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NTDB id 1119571 EL081 RS03595 WP 126404005.1   NVIRKAGVDMEKEDYLHAAFEVFERRLNEFEALVEKLGLA.   600
NTDB id 480 HSISS4 RS02090 WP 002890133.1      EVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                        !!*!!!!!!   !!!*!!! !!! !! ! !!!!!!  * *
```

X non conserved

X similar

X $\geq$ 50% conserved