logo

```
NTDB id 31367 SEZ RS03320 WP 012515302.1   MTDNRSHLEEKYTWDLSTIFATDAAWETEADSLSAATEAARQQAGHLLDSSSSLLDITELQLELARRVEKLYVYASMKNDQDTTV  85
NTDB id 480 HSISS4 RS02090 WP 002890133.1  MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYASMKNDQDTTV  85
consensus                                  !*!!!*!!!!!!!!!!*!!!!!!! !!!! *!    *  !  !!!!!!!  !!  !!! *  ! !!*!!*!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 31367 SEZ RS03320 WP 012515302.1   AKYQEYQAKASGIYAKFSEAFSFYEPEFMALSQETYQAFLAEKPELAVYDHFFDKLFKAREHVLSQAEEELLAGAQEIFNGAEET  170
NTDB id 480 HSISS4 RS02090 WP 002890133.1  GLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEELLAAAGDIFNGPTDT  170
consensus                                  * !!!!!!!!! *!   !!!! **!!!!!!!        !   ! !**!!!*!**!   **!!!!!  !!!!!*! *!!!!* *!
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logo

```
NTDB id 31367 SEZ RS03320 WP 012515302.1   FSILDNADIAFPIVTNDKGEEVELTHGNFISLMESKDRKVRRAAYEAMYSTYEQFQHTYAKTLQTNVKVQNYKARVHKYASARQA  255
NTDB id 480 HSISS4 RS02090 WP 002890133.1  FNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQGVVKVHNYQAKVRHYNSARHA  255
consensus                                  ! *!!!!!! !! !*   !* !!!!!!!!!*!!!!!!! *!**!!!!!! !!!!!!!!!! !!!  !!!*!! !*!**! !!!*!
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logo

```
NTDB id 31367 SEZ RS03320 WP 012515302.1   AMSANFIPEAVYDTLLETVNKHLPLLHRYLKLRQEVLGLDDLKMYDVYTPLSETDLAIGYDEALEKAEKVLAVFGQDYSERVHRA  340
NTDB id 480 HSISS4 RS02090 WP 002890133.1  ALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSETETALTYEESLKKAEEVLAIFGEEYSKGVHAA  340
consensus                                  !* !!!!!! !!!*!!!*!!!!!!!!!!!!!! !!  !!!!!*!!!!!!!!!!!!!!!* !*  !*!  ! !!!  !!!*!! *!!   !! !
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logo

```
NTDB id 31367 SEZ RS03320 WP 012515302.1   FTERWIDVHVNKGKRSGAYSGGSYDTNAFMLLNWQDTLDNLYTLVHETGHSLHSTFTRETQPYVYGDYSIFLAEIASTTNENIMT  425
NTDB id 480 HSISS4 RS02090 WP 002890133.1  FTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHSTFTRQTQPYVYGDYPIFLAEIASTTNENILT  425
consensus                                  !!!!!!!!!*!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!*!!!!!!!!!!!!!!!! !!!!!!!!!*!!!!!!!!!!!!!*!
```

logo

```
NTDB id 31367 SEZ RS03320 WP 012515302.1   EALLHEVQDDKERFAILNHYLDGFRGTVFRQTQFAEFEHAIHQADQNGEVLTSEYLNKLYADLNEKYYGLKKEDNHFIQYEWARI  510
NTDB id 480 HSISS4 RS02090 WP 002890133.1  ETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQILTADFMNKLYADLNEKYYNLKAEDNYEIQFEWERI  510
consensus                                  !  !!*!!  !!! !!!!!!!!!!!!!*!!!!!!!!!!!!!!!!!!  !!   ! *!!  ***!!!!!!!!!!!!  !!  !!!*  !!*!!  !!
```

logo

```
NTDB id 31367 SEZ RS03320 WP 012515302.1   PHFYYNYYVYQYATGFAAASYLADKIVHGTQEDIDHYLTYLKSGNSDYPLEVIAKAGVDMAKGDYLEAAFKVFEERLTELEDLVA  595
NTDB id 480 HSISS4 RS02090 WP 002890133.1  PHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGSSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVE  595
consensus                                  !!!!  !!!!!!!!!!!!!!!!!!!*!!!!!! !!  **!!!!!! !  !!!!!!!! !!!!!!    !!!*!!!!!!!*!! !!!  !!
```

logo

```
NTDB id 31367 SEZ RS03320 WP 012515302.1   RGAHL.   600
NTDB id 480 HSISS4 RS02090 WP 002890133.1  KGVHLS   601
consensus                                  *!  !!*
```

X non conserved

X similar

X $\geq$ 50% conserved