logo



```
NTDB id 62544 QUD44 RS02445 WP 096368584.1  MAKKRDEIAENLTWDLSTVFENDAAWELELKSVSEKLETVNRYEGHLLESAQSLLEITEVELEISRAVEKVYVYASMKHDQDTQV  85
NTDB id 480 HSISS4 RS02090 WP 002890133.1   MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYASMKNDQDTTV  85
consensus                                   !    ! **  !  !!!!*!*!  !! !! !  !  !  ! !!!!*!! !!  !!* * * ! *!!*!!!!!!!*!!!! !
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logo



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NTDB id 62544 QUD44 RS02445 WP 096368584.1  SRYQEYEARATNLYAKFGEMFAFYEPEFLALTPERYESFRREEPKLEQYSHMFERLFAKKEHILSPKEEKLLASASEIFGAAAET  170
NTDB id 480 HSISS4 RS02090 WP 002890133.1   GLYQEYQAKASNLYSQLSEAFAYFEPEFMALDLKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEELLAAAGDIFNGPTDT  170
consensus                                     !!!!! !*!*!!!    ! !!**!!!!*!! * *   !*  !! !  ! ! !!!! ! !*!*!!*  ! !!! ! *!! ** *!
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logo



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NTDB id 62544 QUD44 RS02445 WP 096368584.1  FEIFDNADIELPMIKDEKGQEVQLTHGNYISLMESKDRHVRKAAYQALYSNYEQYQHTYAKTLQTNVKVHNFKAKTRGYDSARQA  255
NTDB id 480 HSISS4 RS02090 WP 002890133.1   FNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQGVVKVHNYQAKVRHYNSARHA  255
consensus                                   ! * !!!!!  ! *  !  !  ! !!!!!*!*!!!!!!!**!!*!! !*!  !!!*!!!!! !!!  !!!!!* !! !*!  !!!*!
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logo



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NTDB id 62544 QUD44 RS02445 WP 096368584.1  ALSSNFIPEEVYDRLLESVNKYLPLLHRYIKLREQILGLDDDLKMYDVYTPLSDLDYKFNYPEAVEKAEEVLQVFGPEYAAHVKK  340
NTDB id 480 HSISS4 RS02090 WP 002890133.1   ALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLD.ELKMYDVYTPLSETETALTYEESLKKAEEVLAIFGEEYSKGVHA  339
consensus                                   !!  !!!!! !!! !!!!!!!*!!!!!!!* !!  *!!!!**!!!!!!!!!!!* *   !*! * !!!!!! *!!*!!  *!*
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logo



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NTDB id 62544 QUD44 RS02445 WP 096368584.1  AFDERWIDVAENIGKRSGAYSGGCYDTNAFMLLNWQETLDDLFTLVHEMGHSMHSTFTRENQPYVYGDYPIFLAEIASTTNENIL  425
NTDB id 480 HSISS4 RS02090 WP 002890133.1   AFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHSTFTRQTQPYVYGDYPIFLAEIASTTNENIL  424
consensus                                   !! !!!!!!**! !!!!!!!!!!*!!!!!!!!!!!!*!!! !!!!!!! !!!*!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!
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logo



```
NTDB id 62544 QUD44 RS02445 WP 096368584.1  TESLLAETTDEKERFAILNHWLDGFRGTVFRQSQFAEFEHEIHKADQEGKVLTSEFMNQLYAGLNEKYYSLPALENPEIQYEWAR  510
NTDB id 480 HSISS4 RS02090 WP 002890133.1   TETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQILTADFMNKLYADLNEKYYNLKAEDNYEIQFEWER  509
consensus                                   !!*!! !  !*! !!!!!!!*!!!!*!!!!!!*!!!!!!! !! !!  ! *!! *!!! !!! !!!!!! !*! *!*!!!*!! !
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logo



```
NTDB id 62544 QUD44 RS02445 WP 096368584.1  IPHFYYNYYVFQYATGFAAATYLAEAIVNGGSEARERKYLTYLKAGSSDYPLAVIAQAGVDMEEITYLESAFAVFEKRLIELENLV  595
NTDB id 480 HSISS4 RS02090 WP 002890133.1   IPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGSSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALV  594
consensus                                   !!!!! !!!!*!!!!!!!!!!*!!!! !!*!  ! *! !!!!!!!!!!!!!!! !!  !!!!!    !!* !! !!! !!*!!! !!
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logo 

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NTDB id 62544 QUD44 RS02445 WP 096368584.1  EKGVHL.   601
NTDB id 480 HSISS4 RS02090 WP 002890133.1   EKGVHLS   601
consensus                                   !!!!!!*
```

X non conserved
X similar
X ≥ 50% conserved