logo

```
NTDB id 52851 LMOATCC19117 RS11230 WP 003724606.1  MSKTNALPLREEVPENLTWDLTTIYPNDEAWEQAFTDLQKITEESEQFKGRLSESSQTLYEALQFRDNAYDLISN  75
NTDB id 480 HSISS4 RS02090 WP 002890133.1          .....MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEK  70
consensus                                          *****  * ! ***!  !!!!!!!** !  !!  *           * !*! *!   ! !           *
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logo

```
NTDB id 52851 LMOATCC19117 RS11230 WP 003724606.1  LYVYAHLKMDQDTANAKYQGLHSRAGSLVTKLMSALSYYDPEILAMDESVLKQFLNENKDLQLYAHLLEELNLSR  150
NTDB id 480 HSISS4 RS02090 WP 002890133.1          IYVYASMKNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANK  145
consensus                                          *!!!!**! !!!!  * !!  * *!  ! * !  !  !**!! *!*!*  !  !    * ! !! !  ! !   *
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logo

```
NTDB id 52851 LMOATCC19117 RS11230 WP 003724606.1  PYILSEKEEALLANAGEVLGSSSNTFNTLNNADMKFPTIKDENGEDIEITHGRFGKLLESNDPRVRREAFLGVYS  225
NTDB id 480 HSISS4 RS02090 WP 002890133.1          DHVLSQEAEELLAAAGDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYG  220
consensus                                          ***!!   ! !!! !!**   ** !!! ! !!!* !! * ! *!* *!*!!! !  !*!! !* *!* !* **!
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logo

```
NTDB id 52851 LMOATCC19117 RS11230 WP 003724606.1  VYEGLKNTLASTLNGQVKKSNFYASTRGYTSAREAALSGNHIPETVYDSLLKSVNANADLLHRYVKLRKELLGLE  300
NTDB id 480 HSISS4 RS02090 WP 002890133.1          TYEQFQHTYAQTLQGVVKVHNYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLD  295
consensus                                            !!   *! ! !!*! !! *!* !  !*! !!!*!!! *!*!!!*!!!!!! !!! * *!!!!!* !!! *!!!*
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logo

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NTDB id 52851 LMOATCC19117 RS11230 WP 003724606.1  ELHMYDLYTPLSDDVNLEFTYEEAKELVLEALKPLGDEYQAILKEAFDSRWIDVMENKGKRSGAYSSGSYSTSPY  375
NTDB id 480 HSISS4 RS02090 WP 002890133.1          ELKMYDVYTPLSETE.TALTYEESLKKAEEVLATFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAF  369
consensus                                          !!*!!!*!!!!!*  *   !!!!      ! ! * !*!!  ** !!  !!!!!**!!!!!!!!!!! ! ! ! **
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logo

```
NTDB id 52851 LMOATCC19117 RS11230 WP 003724606.1  ILLNWQDNINNVYTLAHELGHSVHSYYTRKNQPFVYGDYSIFLAEVASTTNENLLTDYLLKKYDDPKVRAYLLNH  450
NTDB id 480 HSISS4 RS02090 WP 002890133.1          MLLNWQDTLDNLFTLVHETGHSLHSTFTRQTQPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNH  444
consensus                                          *!!!!!! * !**!! !! !!!*!! *!!  !!*!!!!!*!!!!!*!!!!!!!*!!* !!!   !*! !  *!!!
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logo

```
NTDB id 52851 LMOATCC19117 RS11230 WP 003724606.1  YLDGFKGTVFRQTQFAEFEHAIHQADQEGVALTADYLTETYFDINKKYYGEAMVYDAEIGYEWSRIPHFYMNYYV  525
NTDB id 480 HSISS4 RS02090 WP 002890133.1          YLDGFKGTVFRQTQFAEFEHAIHEADASGQILTADFMNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYV  519
consensus                                          !!!!!!!!!!!!!!!!!!!!!!!!! !!   !  !!!!**   ! !*! !!!         !! *!! !!!!!!!!!!!
```

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logo
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```
NTDB id 52851 LMOATCC19117 RS11230 WP 003724606.1  FQYATGFSAASALSAKILTEGQEAVTAYIDFLKAGSSDYPIDVLKKAGVDMATPNPVDDALKVFEQRLDELEKLV  600
NTDB id 480 HSISS4 RS02090 WP 002890133.1          YQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGSSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALV  594
consensus                                          *!!!!!!! !!! !  !!**   !   !!* *!!!!!!!!!**!*!!!!!!!  * **! ! !!!! !! !!! !!
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logo
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```
NTDB id 52851 LMOATCC19117 RS11230 WP 003724606.1  K.....   601
NTDB id 480 HSISS4 RS02090 WP 002890133.1          EKGVHLS  601
consensus                                           ******
```

X non conserved
X similar
X ≥ 50% conserved