logo



```
NTDB id 25348 SBAL223 RS12870 WP 012587864.1  MG..ITKSTPWTPLSDGPDWSFELLQDYLKEIERVAALYKLSTYPNQIEVITAEQMMDAYAGIGMPIGYTHWSFGKRFIE  78
NTDB id 1450 BW25113 RS06185 WP 000190854.1   MATIDSMNKDTTRLSDGPDWTFDLLDVYLAEIDRVAKLYRLDTYPHQIEVITSEQMMDAYSSVGMPINYPHWSFGKKFIE  80
consensus                                     !*** *   * !*!!!!!!!*!*!!  !! !!*!!! !!*! !!!*!!!!!! !!!!!!  *!!!! !*!!!!!!*!!!
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logo



```
NTDB id 25348 SBAL223 RS12870 WP 012587864.1  TEQGYKRGQMGLAYEIVINSNPCIAYLMEENTITMQALVIAHACFGHNSFFKNNYLFKTWTDASSIIDYLVFAKNYISDC  158
NTDB id 1450 BW25113 RS06185 WP 000190854.1   TERLYKHGQQGLAYEIVINSNPCIAYLMEENTITMQALVMAHACYGHNSFFKNNYLFRSWTDASSIVDYLIFARKYITEC  160
consensus                                     !!  !!*!! !!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!*!!!!!!!!!!!!!**!!!!!!!*!!!*!!* !!**!
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logo



```
NTDB id 25348 SBAL223 RS12870 WP 012587864.1  EQKHGVAQVESVIDSCHALMNYGVDRYKRPSEISFREEQARQKDREAYLQSQVNDLWRTIPTQQHEQSQSKKRRFPAEPQ  238
NTDB id 1450 BW25113 RS06185 WP 000190854.1   EERYGVDEVERLLDSCHALMNYGVDRYKRPQKISLQEEKARQKSREEYLQSQVNMLWRTLPKREEEKTVAEARRYPSEPQ  240
consensus                                     ! **!!  !! **!!!!!!!!!!!!!!!!!  !!  !! !!!! !! !!!!!!! !!!!*!   *! *    !!*! !!!
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logo



```
NTDB id 25348 SBAL223 RS12870 WP 012587864.1  ENILYFIEKNAPLLEPWQREIIRIVRKMAQYFYPQKQTQVMNEGWATFWHYTILNHLYDDGVVTDRFMIEFLQSHTGVVA  318
NTDB id 1450 BW25113 RS06185 WP 000190854.1   ENLLYFMEKNAPLLESWQREILRIVRKVSQYFYPQKQTQVMNEGWATFWHYTILNHLYDEGKVTERFMLEFLHSHTNVVF  320
consensus                                     !!*!!!*!!!!!!!!*!!!!!*!!!!!* !!!!!!!!!!!!!!!!!!!!!!!!!!!!!*! !!*!!!*!!!*!!! !!
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logo



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NTDB id 25348 SBAL223 RS12870 WP 012587864.1  QPDYNSRYYSGINPYALGFAMFTDIRRICENPTDEDKAWFPDIAGSNWIETLHFAMQNFKDESFISQYLSPKVIRQFKLF  398
NTDB id 1450 BW25113 RS06185 WP 000190854.1   QPPYNSPWYSGINPYALGFAMFQDIKRICQSPTEEDKYWFPDIAGSDWLETLHFAMRDFKDESFISQFLSPKVMRQFRFF  400
consensus                                     !!*!!!**!!!!!!!!!!!!!!  !!*!!!  !!*!!! !!!!!!!! !*!!!!!!!  !!!!!!!!!*!!!!!*! !* !
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logo



```
NTDB id 25348 SBAL223 RS12870 WP 012587864.1  GIHDNEKRNYLSVSAIHDEQGYQDIRQLLSQQYNLSNIEPNIQVHNVEINGDRSLTLRYVPNNDIPLASSHKEVLKHLHR  478
NTDB id 1450 BW25113 RS06185 WP 000190854.1   TVLDDDRHNYLEISAIHNEEGYREIRNRLSSQYNLSNLEPNIQIWNVDLRGDRSLTLRYIPHNRAPLDRGRKEVLKHVHR  480
consensus                                      **!  ***!!! *!!!!  ! !!  *!!* !! !!!!!!*!!!!!**!!** !!!!!!!!!!*!*!   !!    *!!!!!!*!!
```

logo



```
NTDB id 25348 SBAL223 RS12870 WP 012587864.1  LWGFTVTLEQKNEDASVTVLASCPEAAKPE  508
NTDB id 1450 BW25113 RS06185 WP 000190854.1   LWGFDVMLEQQNEDGSIELLERCPPRMGNL  510
consensus                                     !!!! ! !!! !!!*!* *!  !!*   *
```

X non conserved
X similar
X ≥ 50% conserved