logo

```
NTDB id 93136 amyaer RS06305 WP 066029671.1  ..MTFSAKKTRAVALRNYFSPFGNKLVQSGYIGAEEMQQALVETRKSGRSLVEILQKLTGRPLPPDLQRQYKKNQLFELK   78
NTDB id 1410 SGL RS13950 WP 010873519.1      MTSSSSSKKSRAVALRNYFSPFGNKLVAGGHVDAEQLRQALVQVKKTGRSLPEELKAVTGRELSPELLRQYKKNQLFELK   80
consensus                                    ** * ! !!*!!!!!!!!!!!!!!!!!!  !** !! * !!!!  *!*!!!!*! !  *!!!*!*!*! !!!!!!!!!!!!!
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logo

```
NTDB id 93136 amyaer RS06305 WP 066029671.1  ILYGVESLDPELSDVDGLEIARLIDSLIPIDLCRRYRLIPLRRIEGEPASILIAMVDPDNLEATDDINRILRPRELGLQR  158
NTDB id 1410 SGL RS13950 WP 010873519.1      VLYGVDSVDPEVAPIATQQMAELIGRFFPLDTCRRFKFLPLAQQEGDPPSVLVAMVDPDNLAAQDELNRILRVKGFELRR  160
consensus                                    *!!!!*!*!!!* **    *! !!    !*! !!!** *!!   !!*!*!*!*!!!!!!!! ! !**!!!!!**   ! !
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logo

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NTDB id 93136 amyaer RS06305 WP 066029671.1  LVITGEDYERLLEKFHWAQPELEKEKARLEKEKELEKLSDLTDIVASIEVVSGADDE.VADDLGEGDANQAPVINLVNKI  237
NTDB id 1410 SGL RS13950 WP 010873519.1      LVVTQDDFNQLLEQYYAIREEWEAAQEKRDQERALDKLNDLTDIVGSIDMNLGEDKEDVDNALDSNDANQAPVINLVNKI  240
consensus                                    !!*! *!*  !!! **  *! !   * * !* !*!! !!!!!!*!!**  ! ! !*!  !  !!!!!!!!!!!!!!
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logo

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NTDB id 93136 amyaer RS06305 WP 066029671.1  LAKALQEGTSDIHIEPQEEFLKIRFRKDGVLHQAFDPLPKRITPAVTARFKIMADLDIAERRLPQDGKIRRIYQGRKVDF  317
NTDB id 1410 SGL RS13950 WP 010873519.1      LAKALQEGTSDIHVEPQEETLRIRFRKDGVLNQAFDPLPRKITPAVVARFKIMADMDIAERRSPQDGKIRRIYQGRKVDF  320
consensus                                    !!!!!!!!!!!!!*!!!!! !*!!!!!!!!!*!!!!!!!**!!!!! !!!!!!!!*!!!!!! !!!!!!!!!!!!!!!!
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logo

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NTDB id 93136 amyaer RS06305 WP 066029671.1  RVNTLPSRYGEKVCLRILDNSSTQLGLDKLITDQKTLQIVRDLASRPFGLLLVTGPTGSGKSTTLYSVLAERNHPGVNIS  397
NTDB id 1410 SGL RS13950 WP 010873519.1      RVNTLPSRYGEKVCLRILDNSATQLGLDFLITNPETLQTVRELAARPYGLMLVTGPTGSGKSTTLYSVLAERNSPEVNIN  400
consensus                                    !!!!!!!!!!!!!!!!!!!!! !!!!!! !!! * !!! !!*!! !!*!!*!!!!!!!!!!!!!!!!!!!!*! !!!
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logo

```
NTDB id 93136 amyaer RS06305 WP 066029671.1  TAEDPIEYSLPGITQVQVIREKGMDFASILRAFMRQDPDVILVGETRDKETAKTAIEAALTGHLVLTTLHTNDAAGAIAR  477
NTDB id 1410 SGL RS13950 WP 010873519.1      TAEDPIEYALPGITQVQVIREKGMDFSNILRAFMRQDPDVILVGETRDKETAKTAIEAALTGHLVLTTLHTNDAAGAIAR  480
consensus                                    !!!!!!!! !!!!!!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 93136 amyaer RS06305 WP 066029671.1  LDEMGVETFMISGSLLGVLAQRLMRRVCTECRVAYHPTQEELARFGLSAANEQEVTFYKANTLTIEEIQQARREGNLCVK  557
NTDB id 1410 SGL RS13950 WP 010873519.1      LDEMGVEPFMVSGSLLGVLAQRLMRKVCTECRIAYHPSKEELSRFGLSASGDEVVTFYKANSLSPDEIHLARQKGNLCQK  560
consensus                                    !!!!!!!*!!*!!!!!!!!!!!!!!!*!!!!!*!!!!* !!! !!!!!!  *  !!!!!!!*!***!!* !!  !!!! !
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logo

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NTDB id 93136 amyaer RS06305 WP 066029671.1  CNGSGYKGRIGVYEVMQNSERLQQLINQGATTDRIKEAAVDEGMVTLLAYSLNLVREGYTTLEEVERVTFSDSGLEAELK  637
NTDB id 1410 SGL RS13950 WP 010873519.1      CSGSGYKGRVGVYEVMRNSERIAELINQGATTDRIKDCAVEEGMITLLAYSLNLVQEGYTTLEEVERVTFTDTGLESEMR  640
consensus                                    ! !!!!!!!*!!!!!! !!!!*  !!!!!!!!!!!!!**!!*!!!*!!!!!!!!!! !!!!!!!!!!!!!!!*!*!!! !**
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logo

```
NTDB id 93136 amyaer RS06305 WP 066029671.1  AKRKSGLICSGCRAELKPEWLDCPYCMRPRFSG   670
NTDB id 1410 SGL RS13950 WP 010873519.1      AKRKSALTCRTCAAELQQEWLDCPYCMTSRFS.   672
consensus                                    !!!!!*!  !   ! !!! *!!!!!!!!! *!!!*
```

X non conserved

X similar

X ≥ 50% conserved