logo

```
NTDB id 166312 AVT04 RS02720 WP 011225560.1  MFKIFKRLTAKELSMIVLAVIFVCLNVYLNLKIPDYMSDIITLLSTKGTKASDIFAWNTDAPGMRMLLMSFAGFMASVVV  80
NTDB id 369 SMU RS04255 WP 002263293.1        MFKIFKRLNAKEWGMVLLSTAFICLAVWMDLKTPEYMSNITTLLQTKGTTASDIM.....DPGSKMLMFSFGSFFMAVLV  75
consensus                                    !!!!!!!! !!!  !**!   !*!! !** !! !*!!! ! !!! !!!! !!!! ***** !! *!!* !!* !   !*!
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logo

```
NTDB id 166312 AVT04 RS02720 WP 011225560.1  SFLAARTASSFTTRLRDDIFHQVLDFSDAEIKKFSIPSLLTRTTNDITQLQMALTMGLQVITQGPIMAIWAITKIADKNG  160
NTDB id 369 SMU RS04255 WP 002263293.1        GFLASRTAASFTTRLRSDIFNRVMDYSEAEIKKFSIPSLLTRTTNDLTQLQIMIVMGMQVVTRGPIMAVWALTKIWGKSD  155
consensus                                     !!! !!! !!!!!!! !!!* !*!*!*!!!!!!!!!!!!!!!!!!*!!!!* * !!*!!*! !!!!!*!!*!!!  !
```

logo

```
NTDB id 166312 AVT04 RS02720 WP 011225560.1  NWLLALLVAVAVIAILMLFLLIMVMPKQRLIQTLTDKLNSVTRESLTGIRVVRAYNAESYQEDKFEKANTDLTQNNLFIG  240
NTDB id 369 SMU RS04255 WP 002263293.1        EWTGAVGVAVLIVFIMLSVLMFVAFPRQRQVQSLTDALNSTTRESLTGVRVVRAYNAEDYQDTKFKRENKNLTKLNLLVY  235
consensus                                     !  !* !!! ** !**  !* *  !*!! *!*!!! !!! !!!!!!!*!!!!!!!!! !!* !! * !  !!  !! *
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logo

```
NTDB id 166312 AVT04 RS02720 WP 011225560.1  RSFALLTPVMTAVSSGLTLAIYWIGAHLIEDVKIPTDP.TKIAGAMEDKVHLFSDMVVYSSYAMQVVMGFMMMMVVFFLL  319
NTDB id 369 SMU RS04255 WP 002263293.1        RLMSLMNPVMTVVSSGLTLAIYWIGAYLLNDIKIPMTSVTAAKGAIADRISVFSDMVVFSSYAMQVVVGFMMMVAIFIIL  315
consensus                                    !   !* !!!! !!!!!!!!!!!!!!*!* !*!!!  **!   !!* !****!!!!!!*!!!!!!!!*!!!!!* *! *!
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logo

```
NTDB id 166312 AVT04 RS02720 WP 011225560.1  PRAVVAAGRINEVLDTQSSVSYPEYSSEKPKEVGTVEFEDVSFRYSETSEPVLEHVSFKAKKGDTVALIGSTGSGKSTLV  399
NTDB id 369 SMU RS04255 WP 002263293.1        PRALVSAKRINEVLALNSSVHFKEYSKADNARKGEVEFHDVSFRYSKNSRAVIEHVSFSAKAGETVAFIGSTGSGKSTLV  395
consensus                                    !!!*! ! !!!!!!  *!!!***!!!   *   ! !!!*!!!!!!!  ! *!*!!!!! !! !*!!! !!!!!!!!!!!!
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logo

```
NTDB id 166312 AVT04 RS02720 WP 011225560.1  NLIPRFYDATQGTIKVDGVDVRYYDHETLHNIVGYIPQKAVLFSGDITSNMTMGTSNNSPLDDAKIWEALELAQGKDFVE  479
NTDB id 369 SMU RS04255 WP 002263293.1        NLIPRFYDATEGWIKIDGIKVQDYSHDDLNNKVGYIPQRAVLFSGTIRSNIAFGQSDQAPLDDAKIWEALELAQAKNFVE  475
consensus                                    !!!!!!!!!! ! !!*!!* !  ! !* !*! !!!!!!*!!!!!! ! !!*  ! ! * !!!!!!!!!!!!!!!*! !!!
```

logo

```
NTDB id 166312 AVT04 RS02720 WP 011225560.1  NKEGQLKAEVAQAGSNFSGGQKQRLAIARALARKPEILIFDDSFSALDYKTDRKLRQELAEKTQDMTKLIVAQRISTIMD  559
NTDB id 369 SMU RS04255 WP 002263293.1        EKEKGLDTEVAQGGTNFSGGQKQRLAIARALARKPEILIFDDSFSALDYKTDRILRNDLAKKTKEMTKLIVAQRISTIMD  555
consensus                                     !!  !  !!!!*!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! !!**!! !! *!!!!!!!!!!!!!!!
```

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logo
                                                  ADQHILVLDKGKVVGQGTHEELLANNEVYYQEIAYSQLSKEELEDGK
NTDB id 166312 AVT04 RS02720 WP 011225560.1       ADQILVLDKGKVVGQGTHEELLANNEVYQEIAYSQLSKEELEDGK   604
NTDB id 369 SMU RS04255 WP 002263293.1            ADHILVLDQGKVVGQGTHKELLANNDIYQEIAYSQLSKEELENGK   600
consensus                                         !!*!!!!! !!!!!!!!! !!!!!!**!!!!!!!!!!!!!!!! !!
```

X non conserved

X similar

X $\geq$ 50% conserved