```
logo
NTDB id 66949 GM3709 RS12440 WP 066119785.1  MTQTPISSSTQKQEKLRTALVSPDYFNPFGNKLIQSGFINKEQLKNALVEVRKTKKPLVKVLEQLTQRALSPELVRQYKQ   80
NTDB id 1410 SGL RS13950 WP 010873519.1      .......MTSSSSSKKSRAVALRNYFSPFGNKLVAGGHVDAEQLRQALVQVKKTGRSLPEELKAVTGRELSPELLRQYKK   73
consensus                                    ******* **    !  !*  * !! !!!!!!*  !**  !!!**!!! !*!! **!*  !  *! ! !!!!!*!!!!

logo

NTDB id 66949 GM3709 RS12440 WP 066119785.1  HHLFELKILYGVDCVDPESEDIASEHMTELIESLVPIQVCRRHKLLPLQRIDGEPPMLVIAMVNPDDLQALDDVKQLLRS  160
NTDB id 1410 SGL RS13950 WP 010873519.1      NQLFELKVLYGVDSVDPEVAPIATQQMAELIGRFFPLDTCRRFKFLPLAQQEGDPPSVLVAMVDPDNLAAQDELNRILRV  153
consensus                                    **!!!!!*!!!!!*!!!!  *!!* *! !!!    !*  !!!*! !!!   *!*!! ***!!! !! ! ! !**  *!!

logo

NTDB id 66949 GM3709 RS12440 WP 066119785.1  KGLGLQRIVITEEDYDKLLQKYYEEEKERQKIQEAQKQKKELDRLGDVSDIVGDLGDHALDDADQEGGDDLASSSEANQA  240
NTDB id 1410 SGL RS13950 WP 010873519.1      KGFELRRLVVTQDDFNQLLEQYYAIREEWEAAQEKRDQERALDKLNDLTDIVGSIDMNLGE..DKEDVDNALDSNDANQA  231
consensus                                    !!  ! !*!*! *!*  !!  !!    !    !!   ! * !!*! !**!!!! *  *  ***! ! !    ! *!!!!

logo

NTDB id 66949 GM3709 RS12440 WP 066119785.1  PIIELVNKILIKAIQEGASDIHVEPQEENFRVRLRKDGVLRQYF.TLPKHIIPAVTARFKIMGELDISERRLPQDGKIRR  319
NTDB id 1410 SGL RS13950 WP 010873519.1      PVINLVNKILAKALQEGTSDIHVEPQEETLRIRFRKDGVLNQAFDPLPRKITPAVVARFKIMADMDIAERRSPQDGKIRR  311
consensus                                    !*! !!!!!! !!*!!! !!!!!!!!!!  !*! !!!!!! ! !**!!**! !!! !!!!!!***!! !!! !!!!!!!!

logo

NTDB id 66949 GM3709 RS12440 WP 066119785.1  KFQGRTVDFRMNTLPSRYGEKVCLRILDNSATQLGLDFLISDQETLTKVRDIASRPFGLILVTGPTGSGKSTSLYSVLAE  399
NTDB id 1410 SGL RS13950 WP 010873519.1      IYQGRKVDFRVNTLPSRYGEKVCLRILDNSATQLGLDFLITNPETLQTVRELAARPYGLMLVTGPTGSGKSTTLYSVLAE  391
consensus                                     *!!! !!!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!* *!!!  !!**! !!*!!*!!!!!!!!!!!!*!!!!!!!

logo

NTDB id 66949 GM3709 RS12440 WP 066119785.1  RNDPGVNISTAEDPIEYALPGITQVQVIREKGMNFASILRAFMRQDPDIILVGETRDAETAKTAIEAALTGHLVLTTLHT  479
NTDB id 1410 SGL RS13950 WP 010873519.1      RNSPEVNINTAEDPIEYALPGITQVQVIREKGMDFSNILRAFMRQDPDVILVGETRDKETAKTAIEAALTGHLVLTTLHT  471
consensus                                    !! ! !!! !!!!!!!!!!!!!!!!!!!!!!! !  !!!!!!!!!!!*!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!

logo

NTDB id 66949 GM3709 RS12440 WP 066119785.1  NDAAGAIARLDEMGVEPFMISGALLGVLAQRLMRRVCTQCREPYNPTREELARFGLSASNEESVTFYRAKALNGEALQTA  559
NTDB id 1410 SGL RS13950 WP 010873519.1      NDAAGAIARLDEMGVEPFMVSGSLLGVLAQRLMRKVCTECRIAYHPSKEELSRFGLSASGDEVVTFYKANSLSPDEIHLA  551
consensus                                    !!!!!!!!!!!!!!!!!!!!*!! !!!!!!!!!!!*!!!! !! *!*!**!!! !!!!!!! *! !!!!*!   ! ** ** !
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logo
NTDB id 66949 GM3709 RS12440 WP 066119785.1  TNNGTVCIKCGGSGYKGRVGVYEFMVMSERLEKLINQGATTDMIKEAAVEEGMTTILAYSLNLVREGHTTLEEVERVTFT   639
NTDB id 1410 SGL RS13950 WP 010873519.1      RQKGNLCQKCSGSGYKGRVGVYEVMRNSERIAELINQGATTDRIKDCAVEEGMITLLAYSLNLVQEGYTTLEEVERVTFT   631
consensus                                     * ! *! !! !!!!!!!!!!!! !  !!!*  !!!!!!!!! !!**!!!!!! !*!!!!!!!! !!*!!!!!!!!!!!!
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logo
NTDB id 66949 GM3709 RS12440 WP 066119785.1  DSGLESELKAKRKTSLVCSNCNAELEQQWLDCPYCMTPRFSEHH   683
NTDB id 1410 SGL RS13950 WP 010873519.1      DTGLESEMRAKRKSALTCRTCAAELQQEWLDCPYCMTSRFS...   672
consensus                                    !*!!!!!**!!!!* ! !  ! !!! ! !!!!!!!!!*!!!***
```

X non conserved

X similar

X $\geq$ 50% conserved