```
logo

NTDB id 1127262 FGL00 RS09710 WP 065361139.1  MNDNRKKLVELKNVSLTFNKGKKNEVKAIDNVSFDIYEGEVFGLVGESGSGKTTVGRAILKLYDINEGEIIFNGETVS.H   79
NTDB id 479 HSISS4 RS06980 WP 021143812.1     ...MPEKLVEVKDVEISFGEGSKKF.VAVHNANFFINKGETFSLVGESGSGKTTIGRAIIGLNDTSNGEIIFDGKKINGH   76
NTDB id 296 STER RS06910 WP 011681415.1       ...MPEKLVEVKNVEISFGEGRKKF.VAVHNANFFINKGETFSLVGESGSGKTTIGRAIIGLNDTSNGEIIFDGKKINGY   76
NTDB id 328 STU RS16110 WP 002951426.1        ...MPEKLVEVKDVEISFGEGRKKF.VAVHNANFFINKGETFSLVGESGSGKTTIGRAIIGLNDTSNGEIIFDGKKINGY   76
consensus                                        ***!!!!*! !***!**!*!** *!**!**!*!**!!*!*!!!!!!!!!!!*!!!!**!*!***!!!!!*!******

logo

NTDB id 1127262 FGL00 RS09710 WP 065361139.1  LKGKDLRTFRKDAQMIFQDPQASLNGRMKIRDIVAEGLDIHGLTASKAEREERVQELLDLVGLNKDHLTRYPHEFSGGQR   159
NTDB id 479 HSISS4 RS06980 WP 021143812.1     LSHSEKNDLIRRIQMIFQDPAASLNERATVDYILSEGLHNFHLYKDEEDRKAKIKKIIKEVGLLEEHLTRYPHEFSGGQR   156
NTDB id 296 STER RS06910 WP 011681415.1       LSHSEKNDLIRRIQMIFQDPAASLNERATVDYILSEGLYNFHLYKDEEERKAKIKEIIKEVGLLEEHLTRYPHEFSGGQR   156
NTDB id 328 STU RS16110 WP 002951426.1        LSHSEKNDLIRRIQMIFQDPAASLNERATVDYILSEGLYNFHLYKDEEERKAKIKEIIKEVGLLEEHLTRYPHEFSGGQR   156
consensus                                     !************!!!!!!!*!!!!*!*****!**!!!****!******!**********!!!***!!!!!!!!!!!!!!

logo

NTDB id 1127262 FGL00 RS09710 WP 065361139.1  QRIGIARALAVKPKFIIADEPISALDVSIQAQVVNLMQKLQHKRGLTYLFIAHDLSMVKYISDRIGVMHWGKMLEIGTSD   239
NTDB id 479 HSISS4 RS06980 WP 021143812.1     QRIGIARSLVMQPDLVIADEPISALDVSVRAQVLNLLKKFQKELGLTYLFIAHDLSVVRFISDRIAVIYKGTIVEVAETE   236
NTDB id 296 STER RS06910 WP 011681415.1       QRIGIARSLVMQPDLVIADEPISALDVSVRAQVLNLLKKFQKELGLTYLFIAHDLSVVRFISDRIAVIYKGTIVEVAETE   236
NTDB id 328 STU RS16110 WP 002951426.1        QRIGIARSLVMQPDLVIADEPISALDVSVRAQVLNLLKKFQKELGLTYLFIAHDLSVVRFISDRIAVIYKGTIVEVAETE   236
consensus                                     !!!!!!!*!***!***!!!!!!!!!!!!!**!!!*!!**!*!***!!!!!!!!!!!!!*!**!!!!!*!***!***!*****

logo

NTDB id 1127262 FGL00 RS09710 WP 065361139.1  DVYNHPIHPYTKSLLSAIPEPDPAKERQRVADVYDPSQEL.DGQERQMHEITPGHFVLATQEEADQYRREYH.   310
NTDB id 479 HSISS4 RS06980 WP 021143812.1     ELYNNPIHPYTKSLLSAVPIPDPILERKKVLKVYDPNQHDYSVDKPEMVEVRPGHFVWGNKAEIETYRKEQSK   309
NTDB id 296 STER RS06910 WP 011681415.1       ELYNNPIHPYTKSLLSAVPIPDPILERKKVLKVYDPNQHDYSVDKPEMVEVRPGHFVWGNKTEIETYRKEQSK   309
NTDB id 328 STU RS16110 WP 002951426.1        ELYNNPIHPYTKSLLSAVPIPDPILERKKVLKVYDPNQHDYSVDKPEMVEVRPGHFVWGNKTEIETYRKEQSK   309
consensus                                     **!!*!!!!!!!!!!!!!*!*!!!**!!**!**!!!!*!*********!*!**!!!!!*****!***!!*!***
```

X non conserved

X similar

X $\geq$ 50% conserved