```
NTDB id 479 HSISS4 RS06980 WP 021143812.1  MPEKLVEVKDVEISFGEGSKKFVAVHNANFFINKGETFSLVGESGSGKTTIGRAIIGLNDTSNGEIIFDGKKINGHLSHSEKNDL  85
NTDB id 328 STU RS16110 WP 002951426.1     MPEKLVEVKDVEISFGEGRKKFVAVHNANFFINKGETFSLVGESGSGKTTIGRAIIGLNDTSNGEIIFDGKKINGYLSHSEKNDL  85
NTDB id 296 STER RS06910 WP 011681415.1    MPEKLVEVKNVEISFGEGRKKFVAVHNANFFINKGETFSLVGESGSGKTTIGRAIIGLNDTSNGEIIFDGKKINGYLSHSEKNDL  85
consensus                                  !!!!!!!!!*!!!!!!!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!!!
```

```
NTDB id 479 HSISS4 RS06980 WP 021143812.1  IRRIQMIFQDPAASLNERATVDYILSEGLHNFHLYKDEEDRKAKIKKIIKEVGLLEEHLTRYPHEFSGGQRQRIGIARSLVMQPD  170
NTDB id 328 STU RS16110 WP 002951426.1     IRRIQMIFQDPAASLNERATVDYILSEGLYNFHLYKDEEERKAKIKEIIKEVGLLEEHLTRYPHEFSGGQRQRIGIARSLVMQPD  170
NTDB id 296 STER RS06910 WP 011681415.1    IRRIQMIFQDPAASLNERATVDYILSEGLYNFHLYKDEEERKAKIKEIIKEVGLLEEHLTRYPHEFSGGQRQRIGIARSLVMQPD  170
consensus                                  !!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!!*!!!!!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

```
NTDB id 479 HSISS4 RS06980 WP 021143812.1  LVIADEPISALDVSVRAQVLNLLKKFQKELGLTYLFIAHDLSVVRFISDRIAVIYKGTIVEVAETEELYNNPIHPYTKSLLSAVP  255
NTDB id 328 STU RS16110 WP 002951426.1     LVIADEPISALDVSVRAQVLNLLKKFQKELGLTYLFIAHDLSVVRFISDRIAVIYKGTIVEVAETEELYNNPIHPYTKSLLSAVP  255
NTDB id 296 STER RS06910 WP 011681415.1    LVIADEPISALDVSVRAQVLNLLKKFQKELGLTYLFIAHDLSVVRFISDRIAVIYKGTIVEVAETEELYNNPIHPYTKSLLSAVP  255
consensus                                  !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

```
NTDB id 479 HSISS4 RS06980 WP 021143812.1  IPDPILERKKVLKVYDPNQHDYSVDKPEMVEVRPGHFVWGNKAEIETYRKEQSK  309
NTDB id 328 STU RS16110 WP 002951426.1     IPDPILERKKVLKVYDPNQHDYSVDKPEMVEVRPGHFVWGNKTEIETYRKEQSK  309
NTDB id 296 STER RS06910 WP 011681415.1    IPDPILERKKVLKVYDPNQHDYSVDKPEMVEVRPGHFVWGNKTEIETYRKEQSK  309
consensus                                  !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!!!!!!
```

X non conserved
X similar
X ≥ 50% conserved