```
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1076220 ACJEHH RS04945 WP 011215002.1  ..........................................................................................  0
NTDB id 1272 LPP RS04360 WP 010946546.1        ..........................................................................................  0
NTDB id 1249 GC085 RS04230 WP 010946546.1      ..........................................................................................  0
NTDB id 20 SA RS08005 WP 001802022.1           MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFENKDTALKQSTSENNSLSKLEDVQVKDGDNSK  80
NTDB id 36 MW RS08230 WP 001793467.1           MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK  80
consensus
```

```
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1076220 ACJEHH RS04945 WP 011215002.1  ......................MKARLI......................AILLSIIVIPFSSQAENEPQKTPAKQVLV.  35
NTDB id 1272 LPP RS04360 WP 010946546.1        ......................MKARLI......................AILLSFIVIPFSSQAENEPQKTPAKQVLV.  35
NTDB id 1249 GC085 RS04230 WP 010946546.1      ......................MKARLI......................AILLSFIVIPFSSQAENEPQKTPAKQVLV.  35
NTDB id 20 SA RS08005 WP 001802022.1           NKGPVYVDVKGAVKHPNVYKMTSKDRVVDLLDKAQLLDDADVSRINLSEKLTDQKMIFIPHKGQKNVEPQIEVNSVHVKN  160
NTDB id 36 MW RS08230 WP 001793467.1           NKGPVYVDVKGAVKHPNVYKMTSKDRVVDLLDKAQLLEDADVSQINLSEKLTDQKMIFIPHKGQKNVEPQIGVNSVHVKN  160
consensus                                                            *!*!**                      ******!*!!***!***!!!*********
```

```
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1076220 ACJEHH RS04945 WP 011215002.1  ....KGKINLNTADVHSLTGSFKGIGKKRAEAIIAYRENHQGFKSLEELAEVKGIGQRFVDKNREKLKEIFVIN  105
NTDB id 1272 LPP RS04360 WP 010946546.1        ....KGKINLNTADVYSLTGSFKGIGKKRAEAIIAYRENHQGFKSLEELAEVKGIGQRFVDKNREKLKEIFVIN  105
NTDB id 1249 GC085 RS04230 WP 010946546.1      ....KGKINLNTADVYSLTGSFKGIGKKRAEAIIAYRENHQGFKSLEELAEVKGIGQRFVDKNREKLKEIFVIN  105
NTDB id 20 SA RS08005 WP 001802022.1           GNTNNTKVNLNTASVSEL.MSVPGVGQAKANAIVEYRNQQGAFQEIDDLKKVKGFGSKTFDKLK....SYFTI.  228
NTDB id 36 MW RS08230 WP 001793467.1           GNTNNTKVNLNTASVSEL.MSVPGVGQAKANAIVEYRNQQGAFQEIDDLKKVKGFGSKTFDKLK....SYFTI.  228
consensus                                          **!*!!!!!*! *!**!**!*!***!*!!**!!*****!*****!**!!!*!****!!********!*!*
```

X non conserved

X similar

X $\geq$ 50% conserved