```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1       MAGVNKVIIVGNLGNDPDMRTMPNGDAVATLSVATSESWNDKMTGERREVTEWHRIVFFRRQAEVAGQYLRKGSKVYVEG   80
NTDB id 624 LCA RS00040 WP 011373726.1          ..MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNANG.D..READFINCVIWRKSAENFANFTKKGSLVGVDG   75
NTDB id 1107274 ACM5XX RS19665 WP 004392979.1  ..MLNRVVLVGRLTKDPELRYTPSGAAVATFTLAVNRTFTNQSG.E..READFINCVTWRRQAENVANFLKKGSLAGVDG   75
NTDB id 113 BSU 40900 NP 391970.1               ..MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSG.E..READFINCVTWRRQAENVANFLKKGSLAGVDG   75
NTDB id 112 BSU 36310 NP 391512.2               ..MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNASG.E..IEADYVNCTLWRKTAENTALYCQKGSLVGVSG   75
consensus                                         **!*!**!!*!**!***!*** !*!!*****!******* ** *  ********* *!**!!* *****!!!***!*!
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1       KLKTRKWQDQNGQDRYTTEIQGDVLQMLDSRSSGGDFGGNQGS.GWNQAPAQ.TNYNQGGYSDNYAQNNNFNGGNATRPQ   158
NTDB id 624 LCA RS00040 WP 011373726.1          RLQTRNYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQSNGSQ.......QSGFTSPQQTGNAPAANN   148
NTDB id 1107274 ACM5XX RS19665 WP 004392979.1  RLQTRNYENQQGQRVFVTEVQAESVQFLEPKNSGGSGSG.....GYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQGNS   150
NTDB id 113 BSU 40900 NP 391970.1               RLQTRNYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSG.....GYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQGNS   150
NTDB id 112 BSU 36310 NP 391512.2               RIQTRSYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.........................................   113
consensus                                       ***!!******!*****!!*************** *** * *     *** *** * **  **  ** *  ****     **
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1       PAQKPAAQAEPPMDNFDDDIPF   180
NTDB id 624 LCA RS00040 WP 011373726.1          TQADPFANNGQAIDISDDDLPF   170
NTDB id 1107274 ACM5XX RS19665 WP 004392979.1  FNDDPFANDGKPIDISDDDLPF   172
NTDB id 113 BSU 40900 NP 391970.1               FNDDPFANDGKPIDISDDDLPF   172
NTDB id 112 BSU 36310 NP 391512.2               ......................   113
consensus                                        * ***** * ***********
```

X non conserved
X similar
X $\geq$ 50% conserved