```
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 112 BSU 36310 NP 391512.2              ..MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNASG.E..IEADYVNCTLWRKTAENTALYCQKGSLVGVSG   75
NTDB id 1076798 ACJA3J RS21390 WP 115822995.1  ..MLNRVVLAGRLTKDPDLRYTPNGVAVANFTIAVNRPFSNNSG.D..RDADFINCVVWRRAAENLANFMSKGSLVGVDG   75
NTDB id 113 BSU 40900 NP 391970.1              ..MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSG.E..READFINCVTWRRQAENVANFLKKGSLAGVDG   75
consensus                                        **!*!***!*!**!***!****!*!!*****!*******  **  *  **********!*! !!* *****!!!***!*!
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1      KLKTRKWQDQNGQDRYTTEIQGDVLQMLDSRSSGGDFGGNQGSGWNQAPAQTNYNQGGYSDNYAQNNNFNGGNATRPQPA   160
NTDB id 624 LCA RS00040 WP 011373726.1         RLQTRNYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQ...NFNSNQSNG..SQQSGFTSPQQTGNAPAANNTQ   150
NTDB id 112 BSU 36310 NP 391512.2              RIQTRSYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.......................................   113
NTDB id 1076798 ACJA3J RS21390 WP 115822995.1  RLQSRSFDNQEGKRVFVTEVVADSVQFLESKGASQG...GGN.......RGGSGFQPNQNQQPSGNNF...GSNNNNQRN   142
NTDB id 113 BSU 40900 NP 391970.1              RLQTRNYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSGGYNEG...NSGGGQYFGGGQNDNPFGGNQNNQRRNQGNSFN   152
consensus                                      ****!  *****!*****!!*************        *              *      * *    **         ** *
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1      QKPAAQAEPPMDNFDDDIPF   180
NTDB id 624 LCA RS00040 WP 011373726.1         ADPFANNGQAIDISDDDLPF   170
NTDB id 112 BSU 36310 NP 391512.2              ......................   113
NTDB id 1076798 ACJA3J RS21390 WP 115822995.1  DDPFADNGEPIDISDDDLPF   162
NTDB id 113 BSU 40900 NP 391970.1              DDPFANDGKPIDISDDDLPF   172
consensus                                       ***** * ***********
```

X non conserved

X similar

X $\geq$ 50% conserved