```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1     MAGVNKVIIVGNLGNDPDMRTMPNGDAVATLSVATSESWNDKMTGERREVTEWHRIVFFRRQAEVAGQYLRKGSKVYVEG    80
NTDB id 624 LCA RS00040 WP 011373726.1        ..MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNANG...DREADFINCVIWRKSAENFANFTKKGSLVGVDG    75
NTDB id 112 BSU 36310 NP 391512.2             ..MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNASG...EIEADYVNCTLWRKTAENTALYCQKGSLVGVSG    75
NTDB id 369250 FJM75 RS13280 WP 165999004.1   ..MLNRVVLVGRLTKDPELRYTPSGVAVANFTLAVNRPFTNQQG...DREADFINIVVWRRQAENAANFLKKGSLAGVDG    75
NTDB id 113 BSU 40900 NP 391970.1             ..MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSG...EREADFINCVTWRRQAENVANFLKKGSLAGVDG    75
consensus                                       **!*!**!!*!**!***!***  !*!!*****!*******  *   **********!*!**!!* *****!!!***!*!
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1     KLKTRKWQDQNGQDRYTTEIQGDVLQMLDSRSSGGDFGGNQG.........SGWNQAPAQTNYNQGGYSDNYAQNNNFNG   151
NTDB id 624 LCA RS00040 WP 011373726.1        RLQTRNYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQSNGSQQS.........GFTS.PQQTGNA..   143
NTDB id 112 BSU 36310 NP 391512.2             RIQTRSYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.......................................   113
NTDB id 369250 FJM75 RS13280 WP 165999004.1   RVQTRSYDNSQGQRVFVTEVMAESVQFLEPKGSNQGGSGSGN...YG..........GGNQNRETGGYGNQNQNRDNN..   140
NTDB id 113 BSU 40900 NP 391970.1             RLQTRNYENQQGQRVFVTEVQAESVQFLEPKNGG..GSGSGG...YNEGNSGGGQYFGGGQNDNPF..GG.NQNNQRR..   145
consensus                                     ***!! *****!*****!!************ *   * * **   *      * *   *  *    **    **  *
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1     GNATRPQPAQKPAAQAEPPMDNFDDDIPF   180
NTDB id 624 LCA RS00040 WP 011373726.1        ..PAANNTQADPFANNGQAIDISDDDLPF   170
NTDB id 112 BSU 36310 NP 391512.2             ..............................   113
NTDB id 369250 FJM75 RS13280 WP 165999004.1   ..RDHSNFGDDPFASDGKPIDISDDDLPF   167
NTDB id 113 BSU 40900 NP 391970.1             ..NQGNSFNDDPFANDGKPIDISDDDLPF   172
consensus                                           *   ***** * ***********
```

X non conserved

X similar

X $\geq$ 50% conserved