```
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 239581 CGZ63 RS28180 WP 000981966.1   ..MMNRVILVGRLTKDPDLRYTPNGVAVATFTLAVNRAFANQQG.E..READFINCVIWRKQAENVANYLKKGSLAGVDG   75
NTDB id 113 BSU 40900 NP 391970.1             ..MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSG.E..READFINCVTWRRQAENVANFLKKGSLAGVDG   75
consensus                                       **!*!**!!*!**!***!****!*!!*****!*****  *   *  *   **********!**!!*  *****!!!***!*!
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1     KLKTRKWQDQNGQDRYTTEIQGDVLQMLDSRSSGGDFGGNQGSGWNQAPAQTNYNQGGYSDNYAQNNNFNGGNA......   154
NTDB id 624 LCA RS00040 WP 011373726.1        RLQTRNYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDG..........ASQNFNSNQSNGSQQSGFTSPQQTGN.AP   144
NTDB id 112 BSU 36310 NP 391512.2             RIQTRSYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.....................................   113
NTDB id 239581 CGZ63 RS28180 WP 000981966.1   RLQTRNYEGQDGKRVYVTEVLAESVQFLEPRNGGGEQRGSF....NQQPSGAGF...GNQG....SNPFGQSSNSGNQGN   144
NTDB id 113 BSU 40900 NP 391970.1             RLQTRNYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSGGY....NEGNSGGGQYFGGGQN....DNPFGGNQNN.QRRN   146
consensus                                     ***!!*****!*****!!*************  **    *       *      *      * *       * *    **  *
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1     TRPQPAQKPAAQAEPPMDNFDDDIPF   180
NTDB id 624 LCA RS00040 WP 011373726.1        AANNTQADPFANNGQAIDISDDDLPF   170
NTDB id 112 BSU 36310 NP 391512.2             ..........................   113
NTDB id 239581 CGZ63 RS28180 WP 000981966.1   SGFTKNDDPFSNVGQPIDISDDDLPF   170
NTDB id 113 BSU 40900 NP 391970.1             QGNSFNDDPFANDGKPIDISDDDLPF   172
consensus                                      *    * ***** * **********
```

X non conserved

X similar

X $\geq$ 50% conserved