```
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 207087 BK815 RS08540 WP 046836916.1 ..MINRVVLVGRLTKDPEYRTTPSGVSVATFTLAVNRTFTNAQG.E..READFINCVVFRKQADNVNNYLSKGSLAGVDG    75
NTDB id 113 BSU 40900 NP 391970.1            ..MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSG.E..READFINCVTWRRQAENVANFLKKGSLAGVDG    75
consensus                                      **!*!**!!*!**!***!***  !**!*****!********  *  *  *********!*!**!**  *****!!!***!*!
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1    KLKTRKWQDQNGQDRYTTEIQGDVLQMLDSRSSGGDFGGNQ.....GSGWNQAPAQTNYNQGGYSDNYAQNNNFNGGNAT   155
NTDB id 624 LCA RS00040 WP 011373726.1       RLQTRNYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQSNGSQQSGFTS..PQQ....TGNAPA....   145
NTDB id 112 BSU 36310 NP 391512.2            RIQTRSYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.......................................   113
NTDB id 207087 BK815 RS08540 WP 046836916.1 RIQSRSYENQEGRRIFVTEVVCDSVQFLEPKNQNQRHAQEGNNNSQDYGQSFGGQQSGQNTSSYQNN...NNNSSN....   148
NTDB id 113 BSU 40900 NP 391970.1            RLQTRNYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSGGYNEGNSGGGQYFGGGQNDNPFGGNQN....NQRRNQ....   147
consensus                                    ****!  *****!*****!!*************       *          **  *  **       **    ***
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1    RPQPAQKPAAQAEPPMDNFDDDIPF   180
NTDB id 624 LCA RS00040 WP 011373726.1       ANNTQADPFANNGQAIDISDDDLPF   170
NTDB id 112 BSU 36310 NP 391512.2            ........................    113
NTDB id 207087 BK815 RS08540 WP 046836916.1  NNAQSNNPFANANGPIDISDDDLPF   173
NTDB id 113 BSU 40900 NP 391970.1            GNSFNDDPFANDGKPIDISDDDLPF   172
consensus                                     *     ****   ***********
```

X non conserved

X similar

X $\geq$ 50% conserved