```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1  MAGVNKVIIVGNLGNDPDMRTMPNGDAVATLSVATSESWNDKMTGERREVTEWHRIVFFRRQAEVAGQYLRKGSKVYVEGKLKTR   85
NTDB id 624 LCA RS00040 WP 011373726.1     ..MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNANG.D..READFINCVIWRKSAENFANFTKKGSLVGVDGRLQTR   80
NTDB id 112 BSU 36310 NP 391512.2          ..MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNASG.E..IEADYVNCTLWRKTAENTALYCQKGSLVGVSGRIQTR   80
NTDB id 111522 A16 RS27895 WP 000981967.1  ..MMNRVILVGRLTKDPDLRYTPNGVAVATFTLAVNRAFANQQG.E..READFINCVIWRKQAENVANYLKKGSLAGVDGRLQTR   80
NTDB id 113 BSU 40900 NP 391970.1          ..MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSG.E..READFINCVTWRRQAENVANFLKKGSLAGVDGRLQTR   80
consensus                                   **!*!**!!*!**!***!****!*!!*****!*****  *   *  *  *********!*!**!!* *****!!!***!*!***!!
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1  KWQDQNGQDRYTTEIQGDVLQMLDSRSSGGDFGGNQGSGWNQAPAQTNYNQGGYSDNYAQNNNFNGGNATR.....PQPAQKPAA   165
NTDB id 624 LCA RS00040 WP 011373726.1     NYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGD..........GASQNFNSNQSNGSQQSGFTSPQQTGNAPAANNTQADPFA   155
NTDB id 112 BSU 36310 NP 391512.2          SYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.......................................................   113
NTDB id 111522 A16 RS27895 WP 000981967.1  NYEGQDGKRVYVTEVLAESVQFLEPRNGGGEQRGS....FNQQPSGAGF...GNQSSNPFGQSSNSGNQGNQGNSGFTKNDDPFS   158
NTDB id 113 BSU 40900 NP 391970.1          NYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSGG....YNEGNSGGGQYFGGGQNDNPFGGNQNN....QRRNQGNSFNDDPFA   157
consensus                                  ******!*****!!************  **    *     **    **     * *         *  *       *   * ****
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1  QAEPPMDNFDDDIPF   180
NTDB id 624 LCA RS00040 WP 011373726.1     NNGQAIDISDDDLPF   170
NTDB id 112 BSU 36310 NP 391512.2          ...............   113
NTDB id 111522 A16 RS27895 WP 000981967.1  NVGQPIDISDDDLPF   173
NTDB id 113 BSU 40900 NP 391970.1          NDGKPIDISDDDLPF   172
consensus                                  * *  ***********
```

X non conserved

X similar

X $\geq$ 50% conserved