```
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 142964 WR51 RS27485 WP 002094213.1 ..MMNRVILVGRLTKDPDLRYTPNGVAVATFTLAVNRAFANQQG.E..READFINCVIWRKQAENVANYLKKGSLAGVDGRLQTR   80
NTDB id 113 BSU 40900 NP 391970.1           ..MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSG.E..READFINCVTWRRQAENVANFLKKGSLAGVDGRLQTR   80
NTDB id 112 BSU 36310 NP 391512.2           ..MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNASG.E..IEADYVNCTLWRKTAENTALYCQKGSLVGVSGRIQTR   80
consensus                                    **!*!**!!*!**!***!****!*!!*****!*****  *   *  *   **********!**!!* *****!!!***!*!***!!
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1   KWQDQNGQDRYTTEIQGDVLQMLDSRSSGGDFGGNQGSGWNQAPAQTNYNQGGYSDNYAQNNNFNGGNA.........TRPQPAQ   161
NTDB id 624 LCA RS00040 WP 011373726.1      NYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGD..........GASQNFNSNQSNGSQQSGFTSPQQT....GNAPAANNTQA   151
NTDB id 142964 WR51 RS27485 WP 002094213.1 NYDGQDGKRVYVTEVLAESVQFLEPRNGGGEQRGS....FNQQPSGAGF...GNQGS....NPFGQSSNSGNQGNQGNSGFTKND   154
NTDB id 113 BSU 40900 NP 391970.1           NYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSGG....YNEGNSGGGQYFGGGQND....NPFGGNQNN....QRRNQGNSFND   153
NTDB id 112 BSU 36310 NP 391512.2           SYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.......................................................   113
consensus                                   *****!*****!!*************  **    *     **    **     * *      * *   **          *   *
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1   KPAAQAEPPMDNFDDDIPF   180
NTDB id 624 LCA RS00040 WP 011373726.1      DPFANNGQAIDISDDDLPF   170
NTDB id 142964 WR51 RS27485 WP 002094213.1 DPFSNVGQPIDISDDDLPF   173
NTDB id 113 BSU 40900 NP 391970.1           DPFANDGKPIDISDDDLPF   172
NTDB id 112 BSU 36310 NP 391512.2           ...................   113
consensus                                   ***** * ***********
```

X non conserved
X similar
X $\geq$ 50% conserved