```
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 1119383 EL075 RS11560 WP 002466536.1   ..MLNRVVLVGRLTKDPEYRTTPSGVSVATFTLAVNRTFTNAQG.E..READFINCVVFRRQAENVNNYLSKGSLAGVDG   75
NTDB id 113 BSU 40900 NP 391970.1              ..MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSG.E..READFINCVTWRRQAENVANFLKKGSLAGVDG   75
consensus                                        **!*!**!!*!**!***!***  !**!*****!********  *  *  *********  **!**!!*  *****!!!***!*!
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1      KLKTRKWQDQNGQDRYTTEIQGDVLQMLDSRSSGGDFGGNQGSGWNQAPAQ.TNYNQGGYSDNYAQNNNFNGGNATRPQP   159
NTDB id 624 LCA RS00040 WP 011373726.1         RLQTRNYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDG...ASQNFN.SNQSNGSQQSG..FTSPQQTGNAPAANNT   149
NTDB id 112 BSU 36310 NP 391512.2              RIQTRSYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.......................................   113
NTDB id 1119383 EL075 RS11560 WP 002466536.1   RIQSRSYENQEGRRIFVTEVVCDSVQFLEPKNSQNGGGQRS...QNNEFQDYGQGFGGQQSGQNTS..YNNNSSKPNSNQ   150
NTDB id 113 BSU 40900 NP 391970.1              RLQTRNYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSGG....YNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQGNSF   151
consensus                                      ****!  *****!*****!!************  *    * *       **       *  **  **  *     ***       *
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1      AQKPAAQAEPPMDNFDDDIPF   180
NTDB id 624 LCA RS00040 WP 011373726.1         QADPFANNGQAIDISDDDLPF   170
NTDB id 112 BSU 36310 NP 391512.2              ......................   113
NTDB id 1119383 EL075 RS11560 WP 002466536.1   SDNPFANANGPIDISDDDLPF   171
NTDB id 113 BSU 40900 NP 391970.1              NDDPFANDGKPIDISDDDLPF   172
consensus                                         ****    ***********
```

X non conserved

X similar

X $\geq$ 50% conserved