```
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 305273 DWB91 RS11345 WP 037565084.1  ..MLNRVVLVGRLTKDPEYRTTPSGVGVATFTLAVNRTFTNNQG.E..READFINCVVFRKQAENVSNFLFKGSLAGVDG   75
NTDB id 113 BSU 40900 NP 391970.1            ..MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSG.E..READFINCVTWRRQAENVANFLKKGSLAGVDG   75
consensus                                      **!*!**!!*!**!***!***  !**!*****!*******  * *  *********!**!!!* *****!!!***!*!
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1    KLKTRKWQDQNGQDRYTTEIQGDVLQMLDSRSSGGDFGGNQGSGWNQAPAQTNYNQGGYSD.NYAQNNNFNGGNATRPQP   159
NTDB id 624 LCA RS00040 WP 011373726.1       RLQTRNYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQ...SNGSQQ..SGFTSPQQ.TGNAPAANNT   149
NTDB id 112 BSU 36310 NP 391512.2            RIQTRSYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.......................................   113
NTDB id 305273 DWB91 RS11345 WP 037565084.1  RLQSRSYENQEGRRVYVTEVVCDSVQFLEPKSQNQRHSNNQGNDFQSYGQ...SFGGQQQ....GQNSS.YQNNNNHSSN   147
NTDB id 113 BSU 40900 NP 391970.1            RLQTRNYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSGGYNEGNSGGGQ...YFGGGQNDNPFGGNQN.NQRRNQGNSF   151
consensus                                    ****!  *****!*****!!*************       *  *        *     ** *    **  ***
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1    AQKPAAQAEPPMDNFDDDIPF   180
NTDB id 624 LCA RS00040 WP 011373726.1       QADPFANNGQATDISDDDLPF   170
NTDB id 112 BSU 36310 NP 391512.2            ......................   113
NTDB id 305273 DWB91 RS11345 WP 037565084.1  NDNPFANANGPIDISDDDLPF   168
NTDB id 113 BSU 40900 NP 391970.1            NDDPFANDGKPIDISDDDLPF   172
consensus                                    *  ****   ***********
```

X non conserved

X similar

X $\geq$ 50% conserved