```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1       MAGVNKVIIVGNLGNDPDMRTMPNGDAVATLSVATSESWNDKMTGERREVTEWHRIVFFRRQAEVAGQYLRKGSKVYVEG   80
NTDB id 113 BSU 40900 NP 391970.1               ..MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQS.GE..READFINCVTWRRQAENVANFLKKGSLAGVDG   75
NTDB id 112 BSU 36310 NP 391512.2               ..MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNAS.GE..IEADYVNCTLWRKTAENTALYCQKGSLVGVSG   75
NTDB id 1011037 LLUC023 RS12010 WP 011677241.1  ..MINNVVLVGRITRDPELRYTPQNQAVATFSLAVNRQFKNAN.GE..READFINCVIWRQQAENLANWAKKGALIGVTG   75
NTDB id 624 LCA RS00040 WP 011373726.1          ..MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNAN.GD..READFINCVIWRKSAENFANFTKKGSLVGVDG   75
consensus                                         **!*!**!!****!***!******!!*****!***** **  !*  **********!**!!* *** *!!****!*!
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1       KLKTRKWQDQNGQDRYTTEIQGDVLQMLDSRSSGGDFGGNQGSGWNQAPAQT..NYNQGGYSDNYAQNNNFNGGNATRPQ   158
NTDB id 113 BSU 40900 NP 391970.1               RLQTRNYENQQGQRVFVTEVQAESVQFLEPKNGGGSGS.....GGYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQGNS   150
NTDB id 112 BSU 36310 NP 391512.2               RIQTRSYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.......................................   113
NTDB id 1011037 LLUC023 RS12010 WP 011677241.1  RIQTRNYENQQGQRVYVTEVVADSFQMLESRSARDGMGGGASAGSYSAPS....QSTN.....NTPRPQTNNNSATPNFG   146
NTDB id 624 LCA RS00040 WP 011373726.1          RLQTRNYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQSNGSQQSG.....FTSPQQTGNAPAA..NN   148
consensus                                       ***!!******!*****!!*************       *    * **        *         *    *  *
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1       PAQKPAAQAEPPMDNFDDDIPF   180
NTDB id 113 BSU 40900 NP 391970.1               FNDDPFANDGKPIDISDDDLPF   172
NTDB id 112 BSU 36310 NP 391512.2               ......................   113
NTDB id 1011037 LLUC023 RS12010 WP 011677241.1  RDADPFG..SSPMEISDDDLPF   166
NTDB id 624 LCA RS00040 WP 011373726.1          TQADPFANNGQAIDISDDDLPF   170
consensus                                          *****   ***********
```

X non conserved

X similar

X $\geq$ 50% conserved