```
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 1033158 JNUCC21 RS21265 WP 004392979.1  ..MLNRVVLVGRLTKDPELRYTPSGAAVATFTLAVNRTFTNQSG.E..READFINCVTWRRQAENVANFLKKGSLAGVDG   75
NTDB id 113 BSU 40900 NP 391970.1                ..MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSG.E..READFINCVTWRRQAENVANFLKKGSLAGVDG   75
NTDB id 112 BSU 36310 NP 391512.2                ..MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNASG.E..IEADYVNCTLWRKTAENTALYCQKGSLVGVSG   75
consensus                                          **!*!**!!*!**!***!***  !*!!*****!*******  **  *   *********  *!**!!*  *****!!!***!*!

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1390 A4U84 RS00055 WP 021115958.1        KLKTRKWQDQNGQDRYTTEIQGDVLQMLDSRSSGGDFGGNQGS.GWNQAPAQ.TNYNQGGYSDNYAQNNNFNGGNATRPQ  158
NTDB id 624 LCA RS00040 WP 011373726.1           RLQTRNYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQSNGSQ.......QSGFTSPQQTGNAPAANN  148
NTDB id 1033158 JNUCC21 RS21265 WP 004392979.1  RLQTRNYENQQGQRVFVTEVQAESVQFLEPKNSGGSGSG.....GYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQGNS  150
NTDB id 113 BSU 40900 NP 391970.1                RLQTRNYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSG.....GYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQGNS  150
NTDB id 112 BSU 36310 NP 391512.2                RIQTRSYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.......................................  113
consensus                                        ***!!******!*****!!************ *** * *     *** *** * **  **  ** *  ****     **

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1390 A4U84 RS00055 WP 021115958.1        PAQKPAAQAEPPMDNFDDDIPF   180
NTDB id 624 LCA RS00040 WP 011373726.1           TQADPFANNGQAIDISDDDLPF   170
NTDB id 1033158 JNUCC21 RS21265 WP 004392979.1  FNDDPFANDGKPIDISDDDLPF   172
NTDB id 113 BSU 40900 NP 391970.1                FNDDPFANDGKPIDISDDDLPF   172
NTDB id 112 BSU 36310 NP 391512.2                ......................   113
consensus                                         * ***** * ***********
```

X non conserved

X similar

X $\geq$ 50% conserved