```
logo
NTDB id 624 LCA RS00040 WP 011373726.1        ....MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNAN.GDR..EADFINCVIWRKSAENFANFTKKGSLVGV   73
NTDB id 112 BSU 36310 NP 391512.2             ....MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNAS.GEI..EADYVNCTLWRKTAENTALYCQKGSLVGV   73
NTDB id 181694 A7X73 RS12635 WP 106421151.1  ....MINRVVLVGRLTKDPEYRTTPSGVSVATFTLAVNRTFTNAQ.GER..EADFINCVVFRKQAENVSNYLFKGSLAGV   73
NTDB id 113 BSU 40900 NP 391970.1             ....MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQS.GER..EADFINCVTWRRQAENVANFLKKGSLAGV   73
NTDB id 1390 A4U84 RS00055 WP 021115958.1     ..MAGVNKVIIVGNLGNDPDMRTMPNGDAVATLSVATSESWNDKMTGERREVTEWHRIVFFRRQAEVAGQYLRKGSKVYV   78
NTDB id 1166 A1552VC RS00795 WP 000168289.1  MASRGVNKVILIGNLGQDPEVRYMPSGGAVANITIATSETWRDKATGEQKEKTEWHRVTLYGKLAEVAGEYLRKGSQVYI   80
consensus                                        **!*!***!*!**!***!*** !**!** **!***** *    !**  ********** !!* *****!!!****

logo
NTDB id 624 LCA RS00040 WP 011373726.1        DGRLQTRNYENQQGQRVYVTEVVV....DNFSLLESRTTTEQR.QGDG.ASQNFNS..NQSNGSQQ..SGFTSPQQ.TGN   142
NTDB id 112 BSU 36310 NP 391512.2             SGRIQTRSYENEEGVNVYVTEVLA....DTVRFMDPKPREKAAD.......................................   113
NTDB id 181694 A7X73 RS12635 WP 106421151.1  DGRLQSRSYENQEGRRIFVTEVVC....DSVQFLEPKSQNQRHGQQSG.GNNQFQI.YGQNYGGQQQGQNTSSYQN.NNS   146
NTDB id 113 BSU 40900 NP 391970.1             DGRLQTRNYENQQGQRVFVTEVQA....ESVQFLEPKNGGGS...GSG.GYNEGNSGGGQYFGGGQNDNPFGGNQN.NQR   144
NTDB id 1390 A4U84 RS00055 WP 021115958.1     EGKLKTRKWQDQNGQDRYTTEIQG....DVLQMLDSRSSGGDFGGNQGSGWNQAPAQ..TNYNQGGYSDNYAQNNNFNGG   152
NTDB id 1166 A1552VC RS00795 WP 000168289.1  EGQLQTRKWQDQSGQDRYSTEVVVQGYNGIMQMLGGRAQQGGMPAQGGM...NVPAQ......QGSWGQPQQPAKQHQ..   149
consensus                                    *!****! **** !* ***!!**     * ** ** *           * * **                     ** *

logo
NTDB id 624 LCA RS00040 WP 011373726.1        APAANNTQADPFANNGQAIDISDDDLPF   170
NTDB id 112 BSU 36310 NP 391512.2             ............................   113
NTDB id 181694 A7X73 RS12635 WP 106421151.1  S..NAGQSDNPFANTNGPIDISDDDLPF   172
NTDB id 113 BSU 40900 NP 391970.1             RNQGNSFNDDPFANDGKPIDISDDDLPF   172
NTDB id 1390 A4U84 RS00055 WP 021115958.1     NATRPQPAQKPAAQAEPPMDNFDDDIPF   180
NTDB id 1166 A1552VC RS00795 WP 000168289.1  PMQQSAPQQYSQPQYNEPPMDFDDDIPF   177
consensus                                              * **   ***  ******
```

X non conserved

X similar

X $\geq$ 50% conserved