```
NTDB id 624 LCA RS00040 WP 011373726.1        ....MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNAN.GD..READFINCVIWRKSAENFANFTKKGSLVGV   73
NTDB id 112 BSU 36310 NP 391512.2             ....MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNAS.GE..IEADYVNCTLWRKTAENTALYCQKGSLVGV   73
NTDB id 415532 GVI46 RS26385 WP 013059914.1   ....MMNRVILVGRLTKDPELRYTPSGAAVATFTLAVNRTFTNQQ.GE..READFINCVVWRRQAENAANFLKKGSLAGV   73
NTDB id 113 BSU 40900 NP 391970.1             ....MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQS.GE..READFINCVTWRRQAENVANFLKKGSLAGV   73
NTDB id 1390 A4U84 RS00055 WP 021115958.1     ..MAGVNKVIIVGNLGNDPDMRTMPNGDAVATLSVATSESWNDKMTGERREVTEWHRIVFFRRQAEVAGQYLRKGSKVYV   78
NTDB id 1166 A1552VC RS00795 WP 000168289.1   MASRGVNKVILIGNLGQDPEVRYMPSGGAVANITIATSETWRDKATGEQKEKTEWHRVTLYGKLAEVAGEYLRKGSQVYI   80
consensus                                           **!*!***!*!**!***!*** !*!!** **!***** *   !*   ********** !!* *****!!!****
```

```
NTDB id 624 LCA RS00040 WP 011373726.1        DGRLQTRNYENQQGQRVYVTEVV....DNFSLLESRTTTEQRQGDGASQ...NFNSNQSNG..SQQSGFTSPQQTG.NA   143
NTDB id 112 BSU 36310 NP 391512.2             SGRIQTRSYENEEGVNVYVTEVLA....DTVRFMDPKPREKAAD.....................................   113
NTDB id 415532 GVI46 RS26385 WP 013059914.1   DGRLQSRSYEGQDGRRVYVTEVVA....ESVQFLEPKSGGGDTQRSNFAN.........TGGSGQGSPFGDNQNRNSGN   139
NTDB id 113 BSU 40900 NP 391970.1             DGRLQTRNYENQQGQRVFVTEVQA....ESVQFLEPKNGGGSGSGGYNEG...NSGGGQYFGGGQNDNPFGGNQNNQRRN   146
NTDB id 1390 A4U84 RS00055 WP 021115958.1     EGKLKTRKWQDQNGQDRYTTEIQG....DVLQMLDSRSSGGDFGGNQGSGWNQAPAQTNY.....NQGGYSDNYAQNNNF   149
NTDB id 1166 A1552VC RS00795 WP 000168289.1   EGQLQTRKWQDQSGQDRYSTEVVQGGYNGIMQMLGGRAQQGGMPAQGGM...NVPAQ.........QGSWGQPQQPAKQH   148
consensus                                     *!****! ** * !* ***!!***    * ** ** *   *   *                      *   *   **
```

```
NTDB id 624 LCA RS00040 WP 011373726.1        PAA....NNTQADPFANNGQAIDISDDDLPF   170
NTDB id 112 BSU 36310 NP 391512.2             ................................   113
NTDB id 415532 GVI46 RS26385 WP 013059914.1   QGY....TRVDDDPFANNGETIDISDDDLPF   166
NTDB id 113 BSU 40900 NP 391970.1             QGN.....SFNDDPFANDGKPIDISDDDLPF   172
NTDB id 1390 A4U84 RS00055 WP 021115958.1     NGGNATRPQPAQKPAAQAEPPMDNFDDDIPF   180
NTDB id 1166 A1552VC RS00795 WP 000168289.1   Q..PMQQSAPQQYSQPQYNEPPMDFDDDIPF   177
consensus                                     **           * **    **  ******
```

X non conserved
X similar
X ≥ 50% conserved