```
logo
                                                  ..MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNA.NGDR..EADFINCVIWRKSAENFANFTKKGSLVGVDG   75
NTDB id 624 LCA RS00040 WP 011373726.1
NTDB id 112 BSU 36310 NP 391512.2                 ..MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNA.SGEI..EADYVNCTLWRKTAENTALYCQKGSLVGVSG   75
NTDB id 1109297 ACOCJE RS13405 WP 017466775.1     ..MLNRTILVGRLTRDPELRTTQSGVNVASFTLAVNRTFTNA.QGER..EADFINIIVFKKQAENVNKYLSKGSLAGVDG   75
NTDB id 113 BSU 40900 NP 391970.1                 ..MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQ.SGER..EADFINCVTWRRQAENVANFLKKGSLAGVDG   75
NTDB id 1103 NMB RS07590 WP 002212976.1           .MSLNKVILIGRLGRDPEVRYMPNGEAVCNFSVATSETWNDR.NGQRVERTEWHNITMYRKLAEIAGQYLKKGGLVYLEG   78
NTDB id 1131 NGFG RS05740 WP 003695064.1          .MSLNKVILIGRLGRDPEVRYMPNGEAVCNFSVATSETWNDR.NGQRVERTEWHNITMYRKLAEIAGQYLKKGGLVYLEG   78
NTDB id 1390 A4U84 RS00055 WP 021115958.1         MAGVNKVIIVGNLGNDPDMRTMPNGDAVATLSVATSESWNDKMTGERREVTEWHRIVFFRRQAEVAGQYLRKGSKVYVEG   80
consensus                                           **!*****!*!**!***!****! *!*****!***** *  *!**  *********** !!* *****!!******!
```

```
logo
                                                  RLQTRNYENQQGQRVYVTEVVADNFSLLESRTTTEQRQGDGASQNFNS........NQ..SNGSQQSGFTSP..QQTGNA   143
NTDB id 624 LCA RS00040 WP 011373726.1
NTDB id 112 BSU 36310 NP 391512.2                 RIQTRSYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.........................................   113
NTDB id 1109297 ACOCJE RS13405 WP 017466775.1     RLQTRNYENKEGQRVYVTEVVADSIQFLEPKNTNDNQQDLYQQQAQQ.............SRGQSQY.............   129
NTDB id 113 BSU 40900 NP 391970.1                 RLQTRNYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSGGYNECNSGG........GQYFGGGQNDNPFGGN..QNNQRR   145
NTDB id 1103 NMB RS07590 WP 002212976.1           RIQSRKYQGKDGIERTAYDIVANEMKMLGGRNENSG.GAPYEEGYGQS.......QEAYQRPAQQSRQPASDAPSHPQEA   150
NTDB id 1131 NGFG RS05740 WP 003695064.1          RIQSRKYQGKDGIERTAYDIVANEMKMLGGRNENSG.GAPYDEGYGQS.......QEAYQRPAQQSRQPAPDAPSHPQEA   150
NTDB id 1390 A4U84 RS00055 WP 021115958.1         KLKTRKWQDQNGQDRYTTEIQGDVLQMLDSRSSGGDFGGNQGSGWNQAPAQTNYNQGGYSDNYAQNNNFNGGNA....TR   156
consensus                                         ****! *** *!* ********* * *** **       * *  *  *            *   ***
```

```
logo
                                                  PAANNTQADPFANNGQAIDISDDDLPF   170
NTDB id 624 LCA RS00040 WP 011373726.1
NTDB id 112 BSU 36310 NP 391512.2                 ............................   113
NTDB id 1109297 ACOCJE RS13405 WP 017466775.1     PYNKPVKDNPFANANDPIEIDDDDLPF   156
NTDB id 113 BSU 40900 NP 391970.1                 NQGNSFNDDPFANDGKPIDISDDDLPF   172
NTDB id 1103 NMB RS07590 WP 002212976.1           PA...APRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1131 NGFG RS05740 WP 003695064.1          PA...APRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1390 A4U84 RS00055 WP 021115958.1         PQ...PAQKPAAQAEPPMDNFDDDIPF   180
consensus                                         *         * **** ***   ******
```

X non conserved

X similar

X $\geq$ 50% conserved