```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1  MAGVNKVIIVGNLGNDPDMRTMPNGDAVATLSVATSESWNDKMTGERREVTEWHRIVFFRRQAEVAGQYLRKGSKVYVEGKLKTR   85
NTDB id 624 LCA RS00040 WP 011373726.1     ..MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNANG.D..READFINCVIWRKSAENFANFTKKGSLVGVDGRLQTR   80
NTDB id 112 BSU 36310 NP 391512.2          ..MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNASG.E..IEADYVNCTLWRKTAENTALYCQKGSLVGVSGRIQTR   80
NTDB id 27443 LSE RS00165 WP 003744970.1   ..MMNRVVLVGRLTKDPELRYTPAGVAVATFTLAVNRTFTNQQG.E..READFINCVVWRKPAENVANFLKKGSMAGVDGRVQTR   80
NTDB id 113 BSU 40900 NP 391970.1          ..MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSG.E..READFINCVTWRRQAENVANFLKKGSLAGVDGRLQTR   80
consensus                                   **!*!**!!*!**!***!***  !*!!*****!*******  * *  *********!*!* !!* *****!!!***!*!***!!
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1  KWQDQNGQDRYTTEIQGDVLQMLDSRSSGGDFGGNQGSGWNQAPAQTNYNQGGY..SDNYAQNNNFNGG.....NATRPQPAQKP   163
NTDB id 624 LCA RS00040 WP 011373726.1     NYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGA........SQNFNSNQSN....GSQQSGFTSPQGTGNAPAANNTQADP   153
NTDB id 112 BSU 36310 NP 391512.2          SYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.......................................................   113
NTDB id 27443 LSE RS00165 WP 003744970.1   NYEGNDGKRVYVTEIVAESVQFLEPRNSNSGGGNNYQGGNTTN..NSNYNNGGNNFGQAPTNNGGFAQDQQQSQNQNHQSTNNDP   163
NTDB id 113 BSU 40900 NP 391970.1          NYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSGGYNEGNSGG..GQYFGGG........QNDNPFGGNQNNQRRNQGNSFNDDP   155
consensus                                  ******!*****!!************ *    * *    *         *** *          **  *   **       *  * **
```

```
logo
NTDB id 1390 A4U84 RS00055 WP 021115958.1  AAQAEPPMDNFDDDIPF   180
NTDB id 624 LCA RS00040 WP 011373726.1     FANNGQAIDISDDDLPF   170
NTDB id 112 BSU 36310 NP 391512.2          .................   113
NTDB id 27443 LSE RS00165 WP 003744970.1   FASDGKPIDISDDDLPF   180
NTDB id 113 BSU 40900 NP 391970.1          FANDGKPIDISDDDLPF   172
consensus                                  *** *  ***********
```

X non conserved

X similar

X $\geq$ 50% conserved