```
logo

NTDB id 624 LCA RS00040 WP 011373726.1          MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNANGDREADFINCVIWRKSAENFANFTKKGSLVGVDGRLQTR   80
NTDB id 1124437 EQB61 RS00040 WP 002288368.1    MINNVVLVGRLTKDPDLRYTASGTAVATFTLAVNRNFTNQSGNREADFINCVIWRKSAETLANYARKGTLLGVTGRIQTR   80
NTDB id 113 BSU 40900 NP 391970.1               MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSGEREADFINCVTWRRQAENVANFLKKGSLAGVDGRLQTR   80
NTDB id 112 BSU 36310 NP 391512.2               MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNASGEIEADYVNCTLWRKTAENTALYCQKGSLVGVSGRIQTR   80
consensus                                       !*!*!*!!!!!!*!**!!!!**!*!!*****!!!! !*! *!**!!!**!!**!!**!!*!** *!!*!*!!*!!*!!!
```

```
logo

NTDB id 624 LCA RS00040 WP 011373726.1          NYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQ....SNGSQQSGFT.......SPQQTGNAPAANNT   149
NTDB id 1124437 EQB61 RS00040 WP 002288368.1    SYDNQQGQRVYVTEVVADNFQLLESRSASENRQQSGGFQ..........SSGQSAGGFGGNNNSNQTSQSSNGMPDFDRD   150
NTDB id 113 BSU 40900 NP 391970.1               NYENQQGQRVFVTEVQAESVQFLEPKNGGGS..GSGGYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQG....NSF...   151
NTDB id 112 BSU 36310 NP 391512.2               SYENEEGVNVYVTEVLADTVRFMDPKPREKA..AD.........................................   113
consensus                                        !*!**!**!*!!!!**** * ************* ****  **       * ***  ******* * * * *   * *
```

```
logo

NTDB id 624 LCA RS00040 WP 011373726.1          QADPFANNGQAIDISDDDLPF   170
NTDB id 1124437 EQB61 RS00040 WP 002288368.1    TSDPFG.SSSTIDISDDDLPF   170
NTDB id 113 BSU 40900 NP 391970.1               NDDPFANDGKPIDISDDDLPF   172
NTDB id 112 BSU 36310 NP 391512.2               ......................   113
consensus                                       * ***** *  **********
```

X non conserved

X similar

X $\geq$ 50% conserved