```
logo

NTDB id 624 LCA RS00040 WP 011373726.1          MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNANGDREADFINCVIWRKSAENFANFTKKGSLVGVDGRLQTR   80
NTDB id 1113081 OIG04 RS00190 WP 002299768.1   MINNVVLVGRLTKDPDLRYTASGTAVATFTLAVNRNFTNQSGNREADFINCVIWRKSAETLANYARKGTLVGVTGRIQTR   80
NTDB id 113 BSU 40900 NP 391970.1              MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSGEREADFINCVTWRRQAENVANFLKKGSLAGVDGRLQTR   80
NTDB id 112 BSU 36310 NP 391512.2              MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNASGEIEADYVNCTLWRKTAENTALYCQKGSLVGVSGRIQTR   80
consensus                                      !*!*!*!!!!!!*!**!!!!**!*!!*****!!!! !*! *!**!!!**!!**!!**!!*!** *!!*!*!!*!!*!!!
```

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logo

NTDB id 624 LCA RS00040 WP 011373726.1          NYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQ....SNGSQQSGFT.......SPQQTGNAPAANNT   149
NTDB id 1113081 OIG04 RS00190 WP 002299768.1   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 1113081 OIG04 RS00190 WP 002299768.1   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