```
logo
NTDB id 1103 NMB RS07590 WP 002212976.1      MSLNKVILIGRLGRDPEVRYMPNGEAVCNFSVATSETWNDRNGQRVERTEWHNITMYRKLAEIAGQYLKKGGLVYLEGRI   80
NTDB id 1131 NGFG RS05740 WP 003695064.1     MSLNKVILIGRLGRDPEVRYMPNGEAVCNFSVATSETWNDRNGQRVERTEWHNITMYRKLAEIAGQYLKKGGLVYLEGRI   80
NTDB id 624 LCA RS00040 WP 011373726.1       .MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNANGDR..EADFINCVIWRKSAENFANFTKKGSLVGVDGRL   77
NTDB id 112 BSU 36310 NP 391512.2            .MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNASGEI..EADYVNCTLWRKTAENTALYCQKGSLVGVSGRI   77
NTDB id 969446 MHH25 RS30640 WP 017691432.1 .MLNRVILIGRLTRDPELRYTPAGVAVTQFTLAVDRPFTSQGGEK..EADFIPVVTWRQLAETCANYLRKGRLAAVEGRI   77
NTDB id 113 BSU 40900 NP 391970.1            .MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSGER..EADFINCVTWRRQAENVANFLKKGSLAGVDGRL   77
consensus                                     **!*!*!*!!!**!***!!** ! !!  ***!* ***    !**  ******  **!* !!  *****!! !****!!*
```

```
logo
NTDB id 1103 NMB RS07590 WP 002212976.1      QSRKYQGKDGIERTAYDIVANEMKMLGGRNENSG....GAPYEE......GYGQSQEAYQRPAQQSRQPASDAPSHPQEA   150
NTDB id 1131 NGFG RS05740 WP 003695064.1     QSRKYQGKDGIERTAYDIVANEMKMLGGRNENSG....GAPYDE......GYGQSQEAYQRPAQQSRQPAPDAPSHPQEA   150
NTDB id 624 LCA RS00040 WP 011373726.1       QTRNYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQSN..GSQQSGFTSPQQTGNAPAANN...TQAD   152
NTDB id 112 BSU 36310 NP 391512.2            QTRSYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.......................................   113
NTDB id 969446 MHH25 RS30640 WP 017691432.1 QVRNYENNEGKRVYVTEVIADNVRFLESANRDNSGGGGGQPMR...........EEPSYGGGGRANNNNNSRS...NNQD   143
NTDB id 113 BSU 40900 NP 391970.1            QTRNYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSGGYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQGNS...FNDD   154
consensus                                    !*! !** *!  ******** ** ** **        *             *     *    *             *
```

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logo
NTDB id 1103 NMB RS07590 WP 002212976.1      PAAPRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1131 NGFG RS05740 WP 003695064.1     PAAPRRQPVPAAAPVEDIDDDIPF   174
NTDB id 624 LCA RS00040 WP 011373726.1       PF......ANNGQAIDISDDDLPF   170
NTDB id 112 BSU 36310 NP 391512.2            ........................   113
NTDB id 969446 MHH25 RS30640 WP 017691432.1 PF......SDDGKPIDISDDDLPF   161
NTDB id 113 BSU 40900 NP 391970.1            PF......ANDGKPIDISDDDLPF   172
consensus                                    *          * ***  ******
```

X non conserved

X similar

X $\geq$ 50% conserved