```
logo

NTDB id 1131 NGFG RS05740 WP 003695064.1      MSLNKVILIGRLGRDPEVRYMPNGEAVCNFSVATSETWNDRNGQRVERTEWHNITMYRKLAEIAGQYLKKGGLVYLEGRI    80
NTDB id 1103 NMB RS07590 WP 002212976.1       MSLNKVILIGRLGRDPEVRYMPNGEAVCNFSVATSETWNDRNGQRVERTEWHNITMYRKLAEIAGQYLKKGGLVYLEGRI    80
NTDB id 187616 BBF96 RS13350 WP 127017628.1  .MLNRVILIGRLTRDPELRYTTSGIAVATFALAVERPFTNQSGER..DVDFIDIVIWRKLAETCANHLGKGRLVAVEGRL    77
NTDB id 624 LCA RS00040 WP 011373726.1       .MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNANGDR..EADFINCVIWRKSAENFANFTKKGSLVGVDGRL    77
NTDB id 113 BSU 40900 NP 391970.1            .MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQSGER..EADFINCVTWRRQAENVANFLKKGSLAGVDGRL    77
NTDB id 112 BSU 36310 NP 391512.2            .MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNASGEI..EADYVNCTLWRKTAENTALYCQKGSLVGVSGRI    77
consensus                                     **!*!*!*!!!**!****!!*  ! !!* ****!* *** *  !**  * ****  **!* !!  *****!! !****!!*

logo

NTDB id 1131 NGFG RS05740 WP 003695064.1      QSRKYQGKDGIERTAYDIVANEMKMLGGRNENSGGAP..YDEGY.............GQSQEAYQRPAQQSRQPAPDAPS   145
NTDB id 1103 NMB RS07590 WP 002212976.1       QSRKYQGKDGIERTAYDIVANEMKMLGGRNENSGGAP..YEEGY.............GQSQEAYQRPAQQSRQPASDAPS   145
NTDB id 187616 BBF96 RS13350 WP 127017628.1  QTRSYDDSNGIRRKAVEVVADSVRFLDWPKNTSSSND.YDDQEFNGFDDD.........IDVPF................   131
NTDB id 624 LCA RS00040 WP 011373726.1       QTRNYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQSNGSQ.......QSGFTSPQQTGNAPAANN..   148
NTDB id 113 BSU 40900 NP 391970.1            QTRNYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSG.....GYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQGNS..   150
NTDB id 112 BSU 36310 NP 391512.2            QTRSYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.......................................   113
consensus                                    !*! !*   !*     ***** ** ** *     *        *                    *    *

logo

NTDB id 1131 NGFG RS05740 WP 003695064.1      HPQEAPAAPRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1103 NMB RS07590 WP 002212976.1       HPQEAPAAPRRQPVPAAAPVEDIDDDIPF   174
NTDB id 187616 BBF96 RS13350 WP 127017628.1  ............................   131
NTDB id 624 LCA RS00040 WP 011373726.1       .TQADPF......ANNGQAIDISDDDLPF   170
NTDB id 113 BSU 40900 NP 391970.1            .FNDDPF......ANDGKPIDISDDDLPF   172
NTDB id 112 BSU 36310 NP 391512.2            ............................   113
consensus                                      *  *           *  **  ******
```

X non conserved

X similar

X $\geq$ 50% conserved