```
logo

NTDB id 1103 NMB RS07590 WP 002212976.1        MSLNKVILIGRLGRDPEVRYMPNGEAVCNFSVATSETWNDRNGQRVERTEWHNITMYRKLAEIAGQYLKKGGLVYLEGRI   80
NTDB id 1131 NGFG RS05740 WP 003695064.1       MSLNKVILIGRLGRDPEVRYMPNGEAVCNFSVATSETWNDRNGQRVERTEWHNITMYRKLAEIAGQYLKKGGLVYLEGRI   80
NTDB id 1044685 AB8O74 RS08230 WP 373443333.1 .MINSVALNGRLTRDVDLRYTMSGIAVGQFTLAVDRRFKSKSGNR..ETDFISCQIWRKSAENLANYAHKGSLIGIEGRI   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 1103 NMB RS07590 WP 002212976.1        QSRKYQGKDGIERTAYDIVANEMKMLGGRNENS................GGAPYEEGYGQSQEAYQRPAQQSRQPASDAP   144
NTDB id 1131 NGFG RS05740 WP 003695064.1       QSRKYQGKDGIERTAYDIVANEMKMLGGRNENS................GGAPYDEGYGQSQEAYQRPAQQSRQPAPDAP   144
NTDB id 1044685 AB8O74 RS08230 WP 373443333.1 QTRTYDNKQGQKIYVTEVIAENFSLLEPKPAQQTDDARVSSN.....................................R..   120
NTDB id 624 LCA RS00040 WP 011373726.1        QTRNYENQQGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQSNGSQ........QSGFTSPQQTGNAPAAN..   147
NTDB id 113 BSU 40900 NP 391970.1             QTRNYENQQGQRVFVTEVQAESVQFLEPKNGGGSGSG.....GYNEGNSGGGQYF.GGGQNDNPFGGNQNNQRRNQGN..   149
NTDB id 112 BSU 36310 NP 391512.2             QTRSYENEEGVNVYVTEVLADTVRFMDPKPREKAAD.........................................   113
consensus                                     !*! !**  !  ******** * *** *                     *              *    *

logo

NTDB id 1103 NMB RS07590 WP 002212976.1        SHPQEAPAAPRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1131 NGFG RS05740 WP 003695064.1       SHPQEAPAAPRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1044685 AB8O74 RS08230 WP 373443333.1 .DTQGTK......NQPSGKPIDVNDDDLPF   143
NTDB id 624 LCA RS00040 WP 011373726.1        .NTQADP......FANNGQAIDISDDDLPF   170
NTDB id 113 BSU 40900 NP 391970.1             .SFNDDP......FANDGKPIDISDDDLPF   172
NTDB id 112 BSU 36310 NP 391512.2             ..............................   113
consensus                                        *  *           * ***  ******
```

X non conserved
X similar
X $\geq$ 50% conserved