logo



```
NTDB id 624 LCA RS00040 WP 011373726.1          ....MINRVVLVGRLTRDVDLRYTSSGAAVGTFSMAVNRQFTNA.NGDR..EADFINCVIWRKSAENFANFTKKGSLVGV   73
NTDB id 971290 WOC58 RS00675 WP 000934765.1     ....MLNRTILVGRLTRDPELRTTQSGVNVASFTLAVNRTFTNA.QGER..EADFINIIVFKKQAENVNKYLSKGSLAGV   73
NTDB id 113 BSU 40900 NP 391970.1               ....MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRTFTNQ.SGER..EADFINCVTWRRQAENVANFLKKGSLAGV   73
NTDB id 112 BSU 36310 NP 391512.2               ....MFNQVMLVGRLTKDPDLRYTSAGAAVAHVTLAVNRSFKNA.SGEI..EADYVNCTLWRKTAENTALYCQKGSLVGV   73
NTDB id 1103 NMB RS07590 WP 002212976.1         ...MSLNKVILIGRLGRDPEVRYMPNGEAVCNFSVATSETWNDR.NGQRVERTEWHNITMYRKLAEIAGQYLKKGGLVYL   76
NTDB id 1131 NGFG RS05740 WP 003695064.1        ...MSLNKVILIGRLGRDPEVRYMPNGEAVCNFSVATSETWNDR.NGQRVERTEWHNITMYRKLAEIAGQYLKKGGLVYL   76
NTDB id 1390 A4U84 RS00055 WP 021115958.1       ..MAGVNKVIIVGNLGNDPDMRTMPNGDAVATLSVATSESWNDKMTGERREVTEWHRIVFFRRQAEVAGQYLRKGSKVYV   78
NTDB id 1166 A1552VC RS00795 WP 000168289.1     MASRGVNKVILIGNLGQDPEVRYMPSGGAVANITIATSETWRDKATGEQKEKTEWHRVTLYGKLAEVAGEYLRKGSQVYI   80
consensus                                          *!*****!*! *!***!* * ! *!* ***!    **     !**     ** ** **** !!  *****!!*** *
```

logo



```
NTDB id 624 LCA RS00040 WP 011373726.1          DGRLQTRNYENQQGQRVYVTEVVV....DNFSLLESRTTTEQRQGDGASQNFNSNQS.....NGSQQSGFTSPQQTGNAP   144
NTDB id 971290 WOC58 RS00675 WP 000934765.1     DGRLQTRNYENKEGQRVYVTEVVA....DSIQFLEPKNTDDNQQDLYQQQAQQT.....................RGQSQYS   130
NTDB id 113 BSU 40900 NP 391970.1               DGRLQTRNYENQQGQRVFVTEVQA....ESVQFLEPKNGGGSGSGGYNEGNSGGGQYFG...GGQNDNPFGGNQNNQRRN   146
NTDB id 112 BSU 36310 NP 391512.2               SGRIQTRSYENEEGVNVYVTEVLA....DTVRFMDPKPREKAAD.................................   113
NTDB id 1103 NMB RS07590 WP 002212976.1         EGRIQSRKYQGKDGIERTAYDIVA....NEMKMLGGRNENSGGA....PYEEGYGQSQE.........AYQRPAQQSRQP   139
NTDB id 1131 NGFG RS05740 WP 003695064.1        EGRIQSRKYQGKDGIERTAYDIVA....NEMKMLGGRNENSGGA....PYDEGYGQSQE.........AYQRPAQQSRQP   139
NTDB id 1390 A4U84 RS00055 WP 021115958.1       EGKLKTRKWQDQNGQDRYTTEIQG....DVLQMLDSRSSGG.DF....GGNQGSGWNQAPAQTNYNQGGYSDNYAQNN..   147
NTDB id 1166 A1552VC RS00795 WP 000168289.1     EGQLQTRKWQDQSGQDRYSTEVVVQGYNGIMQMLGGRAQQG.GM....PAQGGM...NVPAQ....QGSWGQPQQPAK..   146
consensus                                       *!*****!  *     !*   *  *****     * *  ***  *      *          *                  *     **
```

logo



```
NTDB id 624 LCA RS00040 WP 011373726.1          A.........ANNTQADPFANNGQAIDISDDDLPF   170
NTDB id 971290 WOC58 RS00675 WP 000934765.1     N.........NKPVKDNPFANANCPIEIDDNDLPF   156
NTDB id 113 BSU 40900 NP 391970.1               Q.........GNSFNDDPFANDGKPIDISDDDLPF   172
NTDB id 112 BSU 36310 NP 391512.2               ..................................   113
NTDB id 1103 NMB RS07590 WP 002212976.1         ASDAPSHPQEAPAAPRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1131 NGFG RS05740 WP 003695064.1        APDAPSHPQEAPAAPRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1390 A4U84 RS00055 WP 021115958.1       ..NFNGGNATRPQPAQKPAAQAEPPMDNFDDDIPF   180
NTDB id 1166 A1552VC RS00795 WP 000168289.1     ..QHQ..PMQQSAPQQYSQPQYNEPPMDFDDDIPF   177
consensus                                                  *   ***  *******
```

X non conserved

X similar

X ≥ 50% conserved