```
logo
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 48234 PPUBIRD1 RS02625 WP 003255446.1 .MARGVNKVILVGTCGQDPEVRYLPNGNAVTNLSLATSEQWTDKQSGQKVERTEWHRVSLFGKVAEIAGEYLRKGSQCYI   79
NTDB id 1166 A1552VC RS00795 WP 000168289.1   MASRGVNKVILIGNLGQDPEVRYMPSGGAVANITIATSETWRDKATGEQKEKTEWHRVTLYGKLAEVAGEYLRKGSQVYI   80
consensus                                         **!!!!**! *!*!!**!**!*!*!! ****!!!!*!*!* *!***!*!!!!********!!*!!*!!*!!* *!*
```

```
logo
NTDB id 1103 NMB RS07590 WP 002212976.1        EGRIQSRKYQGKDGIERTAYDIVA....NEMKMLGGRNEN..SGGAPYEEGYGQSQE..AYQRPAQ...QSRQPASDAPS   145
NTDB id 1131 NGFG RS05740 WP 003695064.1       EGRIQSRKYQGKDGIERTAYDIVA....NEMKMLGGRNEN..SGGAPYDEGYGQSQE..AYQRPAQ...QSRQPAPDAPS   145
NTDB id 1390 A4U84 RS00055 WP 021115958.1      EGKLKTRKWQDQNGQDRYTTEIQG....DVLQMLDSRSSGGDFGGNQGSGWNQAPAQT.NYNQGGYSDNYAQNNNF....   149
NTDB id 48234 PPUBIRD1 RS02625 WP 003255446.1 EGKLQTREWEKD.GIKRYTTEIIV.DINGTMQLLGGRPQGQQQGGDPYN......QGGGNYGG.GQQQQYNQAPPRQQAQ   150
NTDB id 1166 A1552VC RS00795 WP 000168289.1   EGQLQTRKWQDQSGQDRYSTEVVVQGYNGIMQMLGGRAQQ...GGMPAQGGMNVPAQQGSWGQ.PQQPAKQHQPM.....   151
consensus                                     !!****!***   !**!*******      ***!**!  *   !! **  *    *    **  **      **
```

```
logo
NTDB id 1103 NMB RS07590 WP 002212976.1        HPQEAPA..APRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1131 NGFG RS05740 WP 003695064.1       HPQEAPA..APRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1390 A4U84 RS00055 WP 021115958.1      NGGNATRPQPAQKPAAQAEPPMDNFDDDIPF   180
NTDB id 48234 PPUBIRD1 RS02625 WP 003255446.1 RPQQAPQRPAPQQPAPQPAADFDSFDDDIPF   181
NTDB id 1166 A1552VC RS00795 WP 000168289.1   .QQSAP....QQYSQPQYNEPPMDFDDDIPF   177
consensus                                      ** !*   ****   *************!!!!!!
```

X non conserved

X similar

X $\geq$ 50% conserved