```
logo
NTDB id 1131 NGFG RS05740 WP 003695064.1        ...MSLNKVILIGRLGRDPEVRYMPNGEAVCNFSVATSETWNDR.NGQRVERTEWHNITMYRKLAEIAGQYLKKGGLVYL   76
NTDB id 1103 NMB RS07590 WP 002212976.1         ...MSLNKVILIGRLGRDPEVRYMPNGEAVCNFSVATSETWNDR.NGQRVERTEWHNITMYRKLAEIAGQYLKKGGLVYL   76
NTDB id 1022784 ABU640 RS12300 WP 339444157.1  MASRGVNKVILIGNLGQDPEVRYMPSGGAVANITIATSETWRDKATGEQKEKTEWHRVTLYGKLAEVAGEYLRKGSQVYI   80
NTDB id 1166 A1552VC RS00795 WP 000168289.1    MASRGVNKVILIGNLGQDPEVRYMPSGGAVANITIATSETWRDKATGEQKEKTEWHRVTLYGKLAEVAGEYLRKGSQVYI   80
NTDB id 1390 A4U84 RS00055 WP 021115958.1      ..MAGVNKVIIVGNLGNDPDMRTMPNGDAVATLSVATSESWNDKMTGERREVTEWHRIVFFRRQAEVAGQYLRKGSKVYV   78
consensus                                          **!!!!**!*!!*!!**!*!!*!*!!*****!!!!*!*!* *!***!*!!!!*********!!*!!*!!*!!* !!*
```

```
logo
NTDB id 1131 NGFG RS05740 WP 003695064.1        EGRIQSRKYQGKDGIERTAYDIVA....NEMKMLGGRNENSGGAPYDEGYGQSQEAYQRPAQQSRQPAPDAP.....SHP   147
NTDB id 1103 NMB RS07590 WP 002212976.1         EGRIQSRKYQGKDGIERTAYDIVA....NEMKMLGGRNENSGGAPYEEGYGQSQEAYQRPAQQSRQPASDAP.....SHP   147
NTDB id 1022784 ABU640 RS12300 WP 339444157.1  EGQLQTRKWQDQSGQDRYSTEVVVQGYNGIMQMLGGRAQQ.GGMPAQGGM..NVSA.....QQGSWGQPQQPAKQHQ..P   150
NTDB id 1166 A1552VC RS00795 WP 000168289.1    EGQLQTRKWQDQSGQDRYSTEVVVQGYNGIMQMLGGRAQQ.GGMPAQGGM..NVPA.....QQGSWGQPQQPAKQHQ..P   150
NTDB id 1390 A4U84 RS00055 WP 021115958.1      EGKLKTRKWQDQNGQDRYTTEIQG....DVLQMLDSRSSG.GDFGGNQGSGWNQAPAQTNYNQGGYSDNYAQNNNFNGGN   153
consensus                                      !!****!!*!** !**!******      ***!!**!  * !* *** ! * ** * *   *!* *  * **  * *  *
```

```
logo
NTDB id 1131 NGFG RS05740 WP 003695064.1        QEAPAAPRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1103 NMB RS07590 WP 002212976.1         QEAPAAPRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1022784 ABU640 RS12300 WP 339444157.1  MQQSAPQQYSQPQYNEPPMDFDDDIPF   177
NTDB id 1166 A1552VC RS00795 WP 000168289.1    MQQSAPQQYSQPQYNEPPMDFDDDIPF   177
NTDB id 1390 A4U84 RS00055 WP 021115958.1      ATRPQPAQKPAAQAEPPMDNFDDDIPF   180
consensus                                         *** **   **  !****!!!!!!
```

X non conserved
X similar
X ≥ 50% conserved