```
NTDB id 1103 NMB RS07590 WP 002212976.1      ...MSLNKVILIGRLGRDPEVRYMPNGEAVCNFSVATSETWNDRN.GQRVERTEWHNITMYRKLAEIAGQYLKKGGLVYL   76
NTDB id 1131 NGFG RS05740 WP 003695064.1     ...MSLNKVILIGRLGRDPEVRYMPNGEAVCNFSVATSETWNDRN.GQRVERTEWHNITMYRKLAEIAGQYLKKGGLVYL   76
NTDB id 1390 A4U84 RS00055 WP 021115958.1    ..MAGVNKVIIVGNLGNDPDMRTMPNGDAVATLSVATSESWNDKMTGERREVTEWHRIVFFRRQAEVAGQYLRKGSKVYV   78
NTDB id 197991 BI364 RS12515 WP 070079034.1  .MARGVNKVILIGNLGGDPEVRYMPSGGAVTNVTLATTESWKDKNSGDRQERTEWHRVVFFNKLAEIAGEYLRKGSQVYV   79
NTDB id 1166 A1552VC RS00795 WP 000168289.1  MASRGVNKVILIGNLGQDPEVRYMPSGGAVANITIATSETWRDKATGEQKEKTEWHRVTLYGKLAEVAGEYLRKGSQVYI   80
consensus                                        **!!!!**!*!! !!**!*!!*!*!! ****!!*!*!*!***!** !*!!!!********!!*!!*!!*!!* !!*
```

```
NTDB id 1103 NMB RS07590 WP 002212976.1      EGRIQSRKYQGKDGIERTAYDIVANE....MKMLGGRNENSGGAPYEEGYGQSQEAYQRPAQQSRQPASDAPSHPQEAPA   152
NTDB id 1131 NGFG RS05740 WP 003695064.1     EGRIQSRKYQGKDGIERTAYDIVANE....MKMLGGRNENSGGAPYDEGYGQSQEAYQRPAQQSRQPAPDAPSHPQEAPA   152
NTDB id 1390 A4U84 RS00055 WP 021115958.1    EGKLKTRKWQDQNGQDRYTTEIQGD....VLQMLDSRSSGG.DFGGNQGSGWNQAPAQTNYNQGGYSDNYAQNNNFNGGN   153
NTDB id 197991 BI364 RS12515 WP 070079034.1  EGSLRTRKWQGQDGQDRYTTEVVASD....MQMLGGRAGGT......A..GFDAPAAQE.....RQP......AAAPAPA   136
NTDB id 1166 A1552VC RS00795 WP 000168289.1  EGQLQTRKWQDQSGQDRYSTEVVVQGYNGIMQMLGGRAQQG.GMPAQG..GMNVPAQQGSWGQPQQP......AKQHQP.   150
consensus                                    !!****!!*!***!**!*********    **!!**!  ** * *   * !  * * !   ** ***   *    * ***
```

```
NTDB id 1103 NMB RS07590 WP 002212976.1      A......PRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1131 NGFG RS05740 WP 003695064.1     A......PRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1390 A4U84 RS00055 WP 021115958.1    ATRPQPAQK.PAAQAEPPMDNFDDDIPF   180
NTDB id 197991 BI364 RS12515 WP 070079034.1  ASSRAPAQQQPPAHQEAP.IDFDDDIPF   163
NTDB id 1166 A1552VC RS00795 WP 000168289.1  MQQSAPQQYSQPQYNEPP.MDFDDDIPF   177
consensus                                    *    * ** **  ***!****!!!!!!
```

X non conserved

X similar

X ≥ 50% conserved