```
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 1390 A4U84 RS00055 WP 021115958.1   ..MAGVNKVIIVGNLGNDPDMRTMPNGDAVATLSVATSESWNDKMTGERREVTEWHRIVFFRRQAEVAGQYLRKGSKVYV   78
NTDB id 149354 ACP86 RS13225 WP 008174919.1 .MARGVNKVILIGNLGQDPDTRYTPNGNAVVNLNLATDESYKDRQTGQLVPKTEWHRVVMFGKIAEVAGQYLRKGSKVYI   79
NTDB id 1166 A1552VC RS00795 WP 000168289.1 MASRGVNKVILIGNLGQDPEVRYMPSGGAVANITIATSETWRDKATGEQKEKTEWHRVTLYGKLAEVAGEYLRKGSQVYI   80
consensus                                    **!!!!**!*!!*!!**!**!*!*!! ****!!*!***!* *!*****!!!!********!!*!!*!!*!!* !!*
```

```
logo
NTDB id 1131 NGFG RS05740 WP 003695064.1     EGRIQSRKYQGKDGIERTAYDIVA....NEMKMLGGRNENSGGAPYDEGYGQS.........QEAYQRPAQQSRQPAPDA   143
NTDB id 1103 NMB RS07590 WP 002212976.1     EGRIQSRKYQGKDGIERTAYDIVA....NEMKMLGGRNENSGGAPYEEGYGQS.........QEAYQRPAQQSRQPASDA   143
NTDB id 1390 A4U84 RS00055 WP 021115958.1   EGKLKTRKWQDQNGQDRYTTEIQG....DVLQMLDSRSSGG.DFGGNQGSGWNQAPAQTNYNQGGYSDNYAQNNNFNGGN   153
NTDB id 149354 ACP86 RS13225 WP 008174919.1 EGKLQTRKWQNKEGQDVYTTEVVV.DINGQMQMLDSRGGEG.GMSQGAPAGR...P....QQSG.YNAPAGQQNNPPP..   147
NTDB id 1166 A1552VC RS00795 WP 000168289.1 EGQLQTRKWQDQSGQDRYSTEVVVQGYNGIMQMLGGRAQQG.GMPAQGGMNV...P....AQQGSWGQPQQPAKQHQP..   150
consensus                                   !!*****!!*! **!**********      **!!**!  ** * *   * *    *      ****** **** *** *
```

```
logo
NTDB id 1131 NGFG RS05740 WP 003695064.1     PSHPQEAPAAPRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1103 NMB RS07590 WP 002212976.1     PSHPQEAPAAPRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1390 A4U84 RS00055 WP 021115958.1   ATRPQ....PAQKPAAQAEPPMDNFDDDIPF   180
NTDB id 149354 ACP86 RS13225 WP 008174919.1 QSGGY....SNQPSQGSMPEPVDDFDDDIPF   174
NTDB id 1166 A1552VC RS00795 WP 000168289.1 MQQSA....PQQYSQPQYNEPPMDFDDDIPF   177
consensus                                    * **       **    *  !****!!!!!!
```

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