```
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 1036513 ACA087 RS26325 WP 009045846.1 .MARGVNKVILVGTCGQDPEVRYLPNGNAVTNLSLATSEQWTDKQTGQKVEKTEWHRVSMFGKVAEIAGEYLRKGSQVYI   79
NTDB id 1166 A1552VC RS00795 WP 000168289.1   MASRGVNKVILIGNLGQDPEVRYMPSGGAVANITIATSETWRDKATGEQKEKTEWHRVTLYGKLAEVAGEYLRKGSQVYI   80
consensus                                         **!!!!**! *!*!!**!**!*!*!! ****!!!!*!*!* *!***!*!!!!********!!*!!*!!*!!* !!*
```

```
logo
NTDB id 1103 NMB RS07590 WP 002212976.1        EGRIQSRKYQGKDGIERTAYDIVA....NEMKMLGGRNENSGGAPYEEGYGQSQEAYQRPAQQSR......QPASD...A   143
NTDB id 1131 NGFG RS05740 WP 003695064.1       EGRIQSRKYQGKDGIERTAYDIVA....NEMKMLGGRNENSGGAPYDEGYGQSQEAYQRPAQQSR......QPAPD...A   143
NTDB id 1390 A4U84 RS00055 WP 021115958.1      EGKLKTRKWQDQNGQDRYTTEIQG....DVLQMLDSRSSGGDFGGN.QGSGWN....QAPAQTNYNQGGYSDNYAQNNNF   149
NTDB id 1036513 ACA087 RS26325 WP 009045846.1 EGKLQTREWEKD.GIKRYTTEIIV.DMQGTMQLLGGRPQGDQGQGM....GN.....SAPRPQQ....SRPQP..SQ...   139
NTDB id 1166 A1552VC RS00795 WP 000168289.1   EGQLQTRKWQDQSGQDRYSTEVVVQGYNGIMQMLGGRAQQGGMPAQ....GGM....NVPAQQG....SWGQP..QQPAK   146
consensus                                     !!****!***   !**!*******      ***!**!  * ****   * !*     * !***        **   *
```

```
logo
NTDB id 1103 NMB RS07590 WP 002212976.1        PSHPQEAPAAPRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1131 NGFG RS05740 WP 003695064.1       PSHPQEAPAAPRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1390 A4U84 RS00055 WP 021115958.1      NGGNATRPQPAQKPAAQAEPPMDNFDDDIPF   180
NTDB id 1036513 ACA087 RS26325 WP 009045846.1  APQRESRPAPQQSSPQPAQNFDDSFDDDIPF   170
NTDB id 1166 A1552VC RS00795 WP 000168289.1    QHQPMQQSAPQQYSQPQYNEPPMDFDDDIPF   177
consensus                                         *   *** ** * **  *****!!!!!!
```

X non conserved

X similar

X $\geq$ 50% conserved