```
logo
                                          MASRGVNKVILYGNLGQDPEVRYMPNGGAVANISVATSESWRDKNTGERKEYTEWHRIVLYRKLAEVAGQYLRKGSQVYI
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 1471 ASU2 RS04565 WP 014991634.1 ..MAGINKVIIVGNLGNDPEMRTMPNGEAVANISVATSESWTDKNTGERREVTEWHRIVFYRRQAEVAGQYLRKGSQVYV   78
NTDB id 70367 SFYV RS23300 WP 000168305.1 MASRGVNKVILVGNLGQDPEVRYMPNGGAVANITLATSESWRDKATGEMKEQTEWHRVVLFGKLAEVASEYLRKGSQVYI   80
NTDB id 1447 BW25113 RS21080 WP 000168305.1 MASRGVNKVILVGNLGQDPEVRYMPNGGAVANITLATSESWRDKATGEMKEQTEWHRVVLFGKLAEVASEYLRKGSQVYI   80
NTDB id 1166 A1552VC RS00795 WP 000168289.1 MASRGVNKVILIGNLGQDPEVRYMPSGGAVANITIATSETWRDKATGEQKEKTEWHRVTLYGKLAEVAGEYLRKGSQVYI   80
consensus                                     **!!!!**!*!!*!!**!*!!*!*!!*****!!!!*! !* *!***! !!!!********!!*!**!!*!!**!!*
```

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logo
                                          EGRIQTRKWQDQSGQDRYTTEIWWNVGGYVQMLGGRNQGGGGPAYGNNGGPAPQGGYGPQQPYQPQSNQPSG
NTDB id 1103 NMB RS07590 WP 002212976.1   EGRIQSRKYQGKDGIERTAYDI....VANEMKMLGGRNENSGGAPY...........EEGYGQSQEAYQRPAQQSRQPAS   141
NTDB id 1131 NGFG RS05740 WP 003695064.1  EGRIQSRKYQGKDGIERTAYDI....VANEMKMLGGRNENSGGAPY...........DEGYGQSQEAYQRPAQQSRQPAP   141
NTDB id 1390 A4U84 RS00055 WP 021115958.1 EGKLKTRKWQDQNGQDRYTTEI....QGDVLQMLDSRSSGGDFGGNQGSGWNQAPA.QTNYNQGGYSDNYA..QNNNFNG   151
NTDB id 1471 ASU2 RS04565 WP 014991634.1 EGRLKTRKWQDQNGQDRYTTEI....QGDVLQMLGGRNQGGDFGGNQGGWGNSAPAPQQSYNQGNSGYGYD..QTASRPA   152
NTDB id 70367 SFYV RS23300 WP 000168305.1 EGQLRTRKWTDQSGQDRYTTEVVVN.VGGTMQMLGGRQ.GGGAPAG...GNIGGGQPQGGWGQPQQP...Q..GGNQFSG   150
NTDB id 1447 BW25113 RS21080 WP 000168305.1 EGQLRTRKWTDQSGQDRYTTEVVVN.VGGTMQMLGGRQ.GGGAPAG...GNIGGGQPQGGWGQPQQP...Q..GGNQFSG   150
NTDB id 1166 A1552VC RS00795 WP 000168289.1 EGQLQTRKWQDQSGQDRYSTEVVVQGYNGIMQMLGGRAQQGGMPAQ...GGMNVPAQQGSWGQPQQP...A..KQHQPMQ   152
consensus                                   !!****!!**** !**!*****    **  **!!**!* ******    *   *   * ***! *        *  *  *
```

```
logo
                                          DAPSHPQEAPAAPRRQPVPAAAPVEDIDDDIPF
NTDB id 1103 NMB RS07590 WP 002212976.1   DAPSHPQEAPAAPRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1131 NGFG RS05740 WP 003695064.1  DAPSHPQEAPAAPRRQPVPAAAPVEDIDDDIPF   174
NTDB id 1390 A4U84 RS00055 WP 021115958.1 ....GNATRPQPAQKPAAQAEPPMDNFDDDIPF   180
NTDB id 1471 ASU2 RS04565 WP 014991634.1  .......QQAAKQAAKPAQAEPPMDNFDDDIPF   178
NTDB id 70367 SFYV RS23300 WP 000168305.1 ....GAQSRPQQSAPAAPSNEPPM.DFDDDIPF   178
NTDB id 1447 BW25113 RS21080 WP 000168305.1 ....GAQSRPQQSAPAAPSNEPPM.DFDDDIPF   178
NTDB id 1166 A1552VC RS00795 WP 000168289.1 ......QSAPQ.QYSQPQYNEPPM.DFDDDIPF   177
consensus                                     ** **     *  ***!*****!!!!!!
```

X non conserved

X similar

X $\geq$ 50% conserved