

```
NTDB id 71172 P243 RS10235 WP 002910889.1    MATIDSMNRDTTRLSDGPDWTFELLETYLAEVDRVAKLYRLDTYPHQIEVITSEQMMDAYSSVGMPINYPHWSFGKKFIE   80
NTDB id 1450 BW25113 RS06185 WP 000190854.1  MATIDSMNKDTTRLSDGPDWTFDLLDVYLAEIDRVAKLYRLDTYPHQIEVITSEQMMDAYSSVGMPINYPHWSFGKKFIE   80
consensus                                    !!!!!!!!*!!!!!!!!!!!!!!*!!* !!!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```



```
NTDB id 71172 P243 RS10235 WP 002910889.1    TEQAYKHGQQGLAYEIVINSNPCIAYLMEENTITMQALVMAHACYGHNSFFKNNYLFRSWTDASSIIDYLIFARKYITEC  160
NTDB id 1450 BW25113 RS06185 WP 000190854.1  TERLYKHGQQGLAYEIVINSNPCIAYLMEENTITMQALVMAHACYGHNSFFKNNYLFRSWTDASSIVDYLIFARKYITEC  160
consensus                                    !!   !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!!!!!!!!
```



```
NTDB id 71172 P243 RS10235 WP 002910889.1    EERYGVDEVEKLLDSCHALMNYGVDRYKRPQKISLQEEKARQKSREEYLQSQVNMLWRTLPKREEEKAIESARRYPSEPQ  240
NTDB id 1450 BW25113 RS06185 WP 000190854.1  EERYGVDEVERLLDSCHALMNYGVDRYKRPQKISLQEEKARQKSREEYLQSQVNMLWRTLPKREEEKTVAEARRYPSEPQ  240
consensus                                    !!!!!!!!!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```



```
NTDB id 71172 P243 RS10235 WP 002910889.1    ENLLYFMEKNAPLLEPWQREILRIVRKVSQYFYPQKQTQVMNEGWATFWHYTILNHLYDEGKVTERFMLEFLHSHTNVVF  320
NTDB id 1450 BW25113 RS06185 WP 000190854.1  ENLLYFMEKNAPLLESWQREILRIVRKVSQYFYPQKQTQVMNEGWATFWHYTILNHLYDEGKVTERFMLEFLHSHTNVVF  320
consensus                                    !!!!!!!!!!!!!!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```



```
NTDB id 71172 P243 RS10235 WP 002910889.1    QPPYNSPWYSGINPYALGFAMFQDIKRICQSPTEEDKYWFPDIAGSDWLETLHFAMRDFKDESFISQFLSPKYMRDFRFF  400
NTDB id 1450 BW25113 RS06185 WP 000190854.1  QPPYNSPWYSGINPYALGFAMFQDIKRICQSPTEEDKYWFPDIAGSDWLETLHFAMRDFKDESFISQFLSPKVMRDFRFF  400
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!
```



```
NTDB id 71172 P243 RS10235 WP 002910889.1    TVLDDDHNNYLEISAIHNEEGYREIRNKLSAQYNLSNLEPNIQYWNVDLRGDRSLTLRYYVPHNRVPLDKGRREVLKHVHR  480
NTDB id 1450 BW25113 RS06185 WP 000190854.1  TVLDDDRHNYLEISAIHNEEGYREIRNRLSSQYNLSNLEPNIQIWNVDLRGDRSLTLRYYIPHNRAPLDRGRKEVLKHVHR  480
consensus                                    !!!!!!**!!!!!!!!!!!!!!!!!!!!*!! !!!!!!!!!!!!!*!!!!!!!!!!!!!!!!!*!!!! !!!*!!*!!!!!!!!
```



```
NTDB id 71172 P243 RS10235 WP 002910889.1    LWGFDVLLEQQNADGSIELLDRCPARPNAL   510
NTDB id 1450 BW25113 RS06185 WP 000190854.1  LWGFDVMLEQQNEDGSIELLERCPPRMGNL   510
consensus                                    !!!!!!*!!!!! !!!!!!!*!!!*!*  !
```

X non conserved

X similar

X $\geq$ 50% conserved