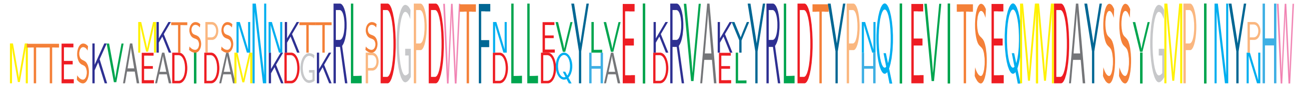
logo



```
NTDB id 56648 OCV50 RS04965 WP 261903856.1   MTTESKVAEKDSPANNNKGKRLPDGPDWTFNLLEQYHVEIKRVAEYYRLDTYPNQIEVITSEQMMDAYSSIGMPINYNHW   80
NTDB id 1450 BW25113 RS06185 WP 000190854.1  ........MATIDSMNKDTTRLSDGPDWTFDLLDVYLAEIDRVAKLYRLDTYPHQIEVITSEQMMDAYSSVGMPINYPHW   72
consensus                                    ********    *  !    !!*!!!!!!! !!* !* !! !!!  !!!!!!!*!!!!!!!!!!!!!!!!*!!!!!!*!!
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logo

```
NTDB id 56648 OCV50 RS04965 WP 261903856.1   SFGKKFIQTEQNYKHGQMGLAYEIVINSNPCIAYLMEENTVTMQALVMAHACYGHNSFFKGNYLFQTWTDASSIIDYLLF   160
NTDB id 1450 BW25113 RS06185 WP 000190854.1  SFGKKFIETERLYKHGQQGLAYEIVINSNPCIAYLMEENTITMQALVMAHACYGHNSFFKNNYLFRSWTDASSIVDYLIF   152
consensus                                    !!!!!!! !!  !!!!! !!!!!!!!!!!!!!!!!!!!!!*!!!!!!!!!!!!!!!!!!! !!!! *!!!!!!!*!!!*!
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logo

```
NTDB id 56648 OCV50 RS04965 WP 261903856.1   AKKYIADCEEKYGVSEVEQLLDSCHALMNYGVDRYKRPEKISIAEETARQQEREAYLQSQVNELWRTVPKNRDKE.EEQK   239
NTDB id 1450 BW25113 RS06185 WP 000190854.1  ARKYITECEERYGVDEVERLLDSCHALMNYGVDRYKRPQKISLQEEKARQKSREEYLQSQVNMLWRTLPKREEEKTVAEA   232
consensus                                    !*!!! *!!!*!!! !!! !!!!!!!!!!!!!!!!!!! !!!* !! !!!  !! !!!!!!! !!!!*!!  *  *
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logo

```
NTDB id 56648 OCV50 RS04965 WP 261903856.1   VRFPSEPQENILYFIEKNAPLLEPWQRECVRIVRKISQYFYPQKQTQVMNEGWATFWHYTILNHLYDEGLVSDKFILEFL   319
NTDB id 1450 BW25113 RS06185 WP 000190854.1  RRYPSEPQENLLYFMEKNAPLLESWQREILRIVRKVSQYFYPQKQTQVMNEGWATFWHYTILNHLYDEGKVTERFMLEFL   312
consensus                                     !*!!!!!!!*!!!*!!!!!!!!*!!!!**!!!!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! !***!*!!!!
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logo

```
NTDB id 56648 OCV50 RS04965 WP 261903856.1   HSHTSVVAQPPYNSPYFSGINPYALGFAMFQDIRRICENPTDEDKEWFPELAGSDWLEAVHFAMHNFKDESFISQYLSPK   399
NTDB id 1450 BW25113 RS06185 WP 000190854.1  HSHTNVVFQPPYNSPWYSGINPYALGFAMFQDIKRICQSPTEEDKYWFPDIAGSDWLETLHFAMRDFKDESFISQFLSPK   392
consensus                                    !!!! !! !!!!!!!**!!!!!!!!!!!!!!!!*!!!  !!*!!! !!!**!!!!!!! *!!!!* !!!!!!!!!*!!!!
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logo

```
NTDB id 56648 OCV50 RS04965 WP 261903856.1   IIRDFKLFSILDDDRKSVIEVSAIHDEMGYRMIREKLAAQYNLSNLEPNIQVFNVDVRGDRSMTLQYVPHDRIPLDKGYD   479
NTDB id 1450 BW25113 RS06185 WP 000190854.1  VMRDFRFFTVLDDDRHNYLEISAIHNEEGYREIRNRLSSQYNLSNLEPNIQIWNVDLRGDRSLTLRYIPHNRAPLDRGRK   472
consensus                                    **!!!* !**!!!!!*  *!*!!!! ! !!! !! *!  !!!!!!!!!!!!**!!!*!!!!!*!! !*!! ! !!!*!
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logo

```
NTDB id 56648 OCV50 RS04965 WP 261903856.1   EVMKHLYRLWGFDVVLEELKDTGHREILATCPKRNDYGSKI   520
NTDB id 1450 BW25113 RS06185 WP 000190854.1  EVLKHVHRLWGFDVMLEQQNEDGSIELLERCPPRMGNL...   510
consensus                                    !!*!!**!!!!!!!*!!   * !* !*!  !!*!    ***
```

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