

```
NTDB id 108517 A9E98 RS14210 WP 010948499.1  ........MRKKPLSTGAEWTFELIQAYDREIARIAKSFNLDTYPNQIEIITAEQMMDAYSSVGMPIGYHHWSFGKHFVS   72
NTDB id 1450 BW25113 RS06185 WP 000190854.1  MATIDSMNKDTTRLSDGPDWTFDLLDVYLAEIDRVAKLYRLDTYPHQIEVITSEQMMDAYSSVGMPINYPHWSFGKKFIE   80
consensus                                    ********     *!! !**!!!*!*  !  !! !*!! * !!!!!*!!!*!! !!!!!!!!!!!!!! ! !!!!!!*!*
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```
NTDB id 108517 A9E98 RS14210 WP 010948499.1  VEKSYKRGQMGLAYELVINSNPCISYLMEENTMAMQALVIAHACYGHNSFFKNNYLFKMWTSADAIIDYLVFAKKYISDC  152
NTDB id 1450 BW25113 RS06185 WP 000190854.1  TERLYKHGQQGLAYEIVINSNPCIAYLMEENTITMQALVMAHACYGHNSFFKNNYLFRSWTDASSIVDYLIFARKYITEC  160
consensus                                     !* !!*!! !!!!!*!!!!!!!! !!!!!!!* !!!!!*!!!!!!!!!!!!!!!!* !! !  !*!!!*!!*!!!**!
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```
NTDB id 108517 A9E98 RS14210 WP 010948499.1  EERYGIDAVEPVLDACHALMNYGVDRYKHPTPLSIQEEKIRQQNREIYMQSQVNELWRTIPFSKQIDKNGQKKRFPEEPQ  232
NTDB id 1450 BW25113 RS06185 WP 000190854.1  EERYGVDEVERLLDSCHALMNYGVDRYKRPQKISLQEEKARQKSREEYLQSQVNMLWRTLPKREEEKTVAEARRYPSEPQ  240
consensus                                    !!!!!*! !!**!! !!!!!!!!!!!!!*! **!*!!!! !!  !! !*!!!!! !!!!*!          *  *!*! !!!
```



```
NTDB id 108517 A9E98 RS14210 WP 010948499.1  ENILYFIEKNAPLLEPWQREIVRIVRKLAQYFYPQGQTKVMNEGWACFWHYTILHALYDEGLVTDEFMLEILQSHTNVIM  312
NTDB id 1450 BW25113 RS06185 WP 000190854.1  ENLLYFMEKNAPLLESWQREILRIVRKVSQYFYPQKQTQVMNEGWATFWHYTILNHLYDEGKVTERFMLEFLHSHTNVVF  320
consensus                                    !!*!!!*!!!!!!!!!*!!!!!*!!!!!* !!!!!! !! !!!!!!!*!!!!!!!**!!!!! !!* !!!! !*!!!!!*
```



```
NTDB id 108517 A9E98 RS14210 WP 010948499.1  QPAYNSPYYNGINPYTLGYHMMQDIKRICENPTDEDKKWFPYLANTDWLTSLDTAMRNYKDESFIAQYLSPKLIRDLKLF  392
NTDB id 1450 BW25113 RS06185 WP 000190854.1  QPPYNSPWYSGINPYALGFAMFQDIKRICQSPTEEDKYWFPDIAGSDWLETLHFAMRDFKDESFISQFLSPKVMRDFRFF  400
consensus                                    !!*!!!!*! !!!!! !!**! !!!!!!! !!*!!! !!! *! *!!! *!* !!! *!!!!!! !*!!!!**!! * !
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```
NTDB id 108517 A9E98 RS14210 WP 010948499.1  HIVDDDRNSELYINAIHDEWGYQQIREALSRQYNLGYLEPDIQVYSVDLQGDRSLTLRYSQQNRVPLGSSTNEVLKHLHY  472
NTDB id 1450 BW25113 RS06185 WP 000190854.1  TVLDDDRHNYLEISAIHNEEGYREIRNRLSSQYNLSNLEPNIQIWNVDLRGDRSLTLRYIPHNRAPLDRGRKEVLKHVHR  480
consensus                                    ***!!!!!*  ! ! !!! ! !!  !! !! !!!!  !!! !!** !!! !!!!!!!!! **!! !!      !!!!!*!
```



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NTDB id 108517 A9E98 RS14210 WP 010948499.1  LWQFPVILQAVDGENKITEEFSCPPLNKNKTAETN  507
NTDB id 1450 BW25113 RS06185 WP 000190854.1  LWGFDVMLEQQNEDGSIELLERCPPRMGNL.....  510
consensus                                    !! !*!*!      *  !     !!!   ! *****
```

X non conserved

X similar

X $\geq$ 50% conserved