```
NTDB id 243832 CKF48 RS17220 WP 095372442.1  MLHSKTRWNVRQSDEASVEELINGLNISSALATLLVNRGFNTVESARYFLFDEKKEFHDPFLLNDMDLAVSRIQRAIKNN  80
NTDB id 354 BSU 27620 NP 390640.1            MLASKMRWEIQRPDQDKVKSLTEQLHITPLVASLLVKRGFDTAESARLFLHTKDADFYDPFEMKGMKEAADRIKQAISQQ  80
consensus                                    !!*!! !! *  *!   !  !  !*!** *!*!!! !!! ! !!!! !!*    *!*!!! *  !  !  !!  !! **
```

```
NTDB id 243832 CKF48 RS17220 WP 095372442.1  ESIMIFGDYDADGVTSTTVMMRTLTSLGADVQFYIPNRFTEGYGPNVPAFQYASDIGVSLIITVDTGIAAIEPAQAAKEM  160
NTDB id 354 BSU 27620 NP 390640.1            EKIMIYGDYDADGVTSTSVMLHTLQKLSAQVDFYIPDRFKEGYGPNEQAFRSIKERGFSLIITVDTGIAAVHEAKVAKEL  160
consensus                                    !  !!!*!!!!!!!!!!!*!**!!  !  ! !  !!!!  !!  !!!!!!  *!!    *  ! !!!!!!!!!!!***!  !!!*
```

```
NTDB id 243832 CKF48 RS17220 WP 095372442.1  GIDLIITDHHEPGPVLPEECLAIIHPKLPDSRYPFKELAGVGVAFKLAHALLGNVPNDLLEFVAIGTVADLVSLTDENRLI  240
NTDB id 354 BSU 27620 NP 390640.1            GLDVIITDHHEPGPELPDVRAIVHPKQPGCTYPFKELAGVGVAFKLAHALLGELPDELLDLAAIGTIADLVPLHDENRLI  240
consensus                                    !*!*!!!!!!!!!!!  !!**  !!*!!!  ! *  !!!!!!!!!!!!!!!!!!!!!!  *!  *!!*   !!!!*!!!!*!*!!!!!!
```

```
NTDB id 243832 CKF48 RS17220 WP 095372442.1  VKKGLKKLQSTQNLGIRSLISLANVKLAEMTEETIGFTIAPRLNAVGRLDSADPAVELLLTEDALEAEALAEEIDQMNKE  320
NTDB id 354 BSU 27620 NP 390640.1            ATLGLERLRRTNRLGLKELIKLSGGDIGEANEETVGFQLAPRLNAVGRIEQADPAVHLLMSEDSFEAEELAAEIDQLNKE  320
consensus                                       !!  *!  !* !!** !! !    **!  !!!*!! *!!!!!!!!!!** !!!!!*!!**!!  !!! !! !!!!*!!!
```

```
NTDB id 243832 CKF48 RS17220 WP 095372442.1  RQSIVHTMAEEAIQQVEAEYPIEENPVIVVGKEGWNPGVVGIVASRLVEKYYRPVICLSFDSQQGIAKGSARSITGFDLF  400
NTDB id 354 BSU 27620 NP 390640.1            RQKMVSKMTDEAIEMVEQQG..LDQTAIVVAKAGWNPGVVGIVASKLVDRFYRPAIVLGIDEEKGIAKGSARSIRGFNLF  398
consensus                                    !! *!* ! *!!!  !!   ** *** !!!*! !!!!!!!!!!!!*!!***!!! !*!  !   !!!!!!!!!! !! !!
```

```
NTDB id 243832 CKF48 RS17220 WP 095372442.1  HNLSQSRDILPHFGGHPMAAGMTLKLDDVDILRQRLIQLAKEQLNEDDFIPITNLDAELRVADVNLEEMIAEIQQLAPFGI  480
NTDB id 354 BSU 27620 NP 390640.1            ESLSECRDILPHFGGHPMAAGMTLKAEDVPDLRSRLNEIADNTLTEEDFIPVQEVDLVCGVEDITVESIAEMNMLSPFGM  478
consensus                                    * !! *!!!!!!!!!!!!!!!!!!!!  *!!*  !!  !!   *!   !  !*!!!!*  *!  *  ! !* *!  !!!** !  !!!*
```

```
NTDB id 243832 CKF48 RS17220 WP 095372442.1  DNPKPKVMLKEANVSLLKRIGTNKTHLKITLEDNDVTLDGIGFGFGEYAEQISMDASLAIVGELSINEWNNIKKPQVFIQ  560
NTDB id 354 BSU 27620 NP 390640.1            LNPKPHVLVENAVLEDVRKIGANKTHVKMTIRNESSQLDCVGFNKGELQEGIVPGSRISIVGEMSINEWNNRKKPQLMIK  558
consensus                                     !!!!*!**  ! *  ***!! !!!!*!*!*      !!**!!  !!  !  ! *   * !!!!*!!!!!!! !!!!* !
```

logo

```
NTDB id 243832 CKF48 RS17220 WP 095372442.1  DIRIQEWQLFDIRGAKRLDTIVTHVHHETSEWIVFNKENHDKF..LPYNPNVSLILSDEEAENIILDGKHVVFCDLPPQK  638
NTDB id 354 BSU 27620 NP 390640.1            DAAVSEWQLFDLRGKRTWEDTVSALPSAKRAIVSFKEDSTTLLQTEDLRREVHVISSKDQAKAFDLDGAYIVLLDPPFSL  638
consensus                                    !  * !!!!!!*!! *  *  !*** *     * !  * *   ** *  * !**! ! * !    !!! **! *!*!!
```

logo

```
NTDB id 243832 CKF48 RS17220 WP 095372442.1  ERLEAILRGKSPERIYCHFYQTNDIFSMATPNRDHFKWYYALIAKRGPFNLEERKAEVAKFKGWQVSYIDFMTEVFFELE  718
NTDB id 354 BSU 27620 NP 390640.1            DMLARLLEGKAPERIYFIFLNHEDHFLSTFPARDHFKWYYAFLLKRGAFDVKKHGSELAKHKGWSVETINFMTKVFFDLG  718
consensus                                    * !  *! !! !!!!!**! ** !*!    ! !!!!!!!!! * !!!*! *  *  !*!!*!!! !  ! !!! !!!*!
```

logo

```
NTDB id 243832 CKF48 RS17220 WP 095372442.1  FVKIDNGMISLSDAKQKRDLSESQAFCIKQQQVKLENELLYSKAGQLKDWFDGLLQNAYVN.......  779
NTDB id 354 BSU 27620 NP 390640.1            FVKIENGVLSVVSGAKKRDLTDSQTYQAKQQLMELDQKLNYSSAEELKEWLNKLMKQDSEAYESTRRT  786
consensus                                    !!!!*!!**!*  *  !!!!**!! ** !!! * !** ! !! !  !!*!   !* *    *******
```

X non conserved

X similar

X ≥ 50% conserved