```
NTDB id 968542 MHH76 RS14715 WP 020452412.1  MLASKMRWDVQTPDKEKVEQLAGRLGITPLAASLLVMRGYDTADKASSFLNGKDAVFHDPYLLKDMEKAVQRIKQAISDQ  80
NTDB id 354 BSU 27620 NP 390640.1            MLASKMRWEIQRPDQDKVKSLTEQLHITPLVASLLVKRGFDTAESARLFLHTKDADFYDPFEMKGMKEAADRIKQAISQQ  80
consensus                                    !!!!!!!!**! !! *!!  !  !*!!!! !!!!! !!*!!!* !  !!* !!! !*!!* *! !  !  !!!!!!! !
```

```
NTDB id 968542 MHH76 RS14715 WP 020452412.1  EKIMIYGDYDADGVTSTTVLLQMLKKCSAQADFYIPDRFKEGYGPNEAAFRGIKESGYSLIITVDTGIAAVHEAEVAKEL  160
NTDB id 354 BSU 27620 NP 390640.1            EKIMIYGDYDADGVTSTSVMLHTLQKLSAQVDFYIPDRFKEGYGPNEQAFRSIKERGFSLIITVDTGIAAVHEAKVAKEL  160
consensus                                    !!!!!!!!!!!!!!!!!*!*!* !  !*!!! !!!!!!!!!!!!!!!! !!! !!! !*!!!!!!!!!!!!!!! !!!!!
```

```
NTDB id 968542 MHH76 RS14715 WP 020452412.1  GVDLIITDHHEPGPVLPDAYAIIHPKQPGCGYPFKELAGVGVAFKLAHALNGELPEDLLDLCAIGTIADLVPLHDENRQI  240
NTDB id 354 BSU 27620 NP 390640.1            GLDVIITDHHEPGPELPDVRAIVHPKQPGCTYPFKELAGVGVAFKLAHALLGELPDELLDLAAIGTIADLVPLHDENRLI  240
consensus                                    !*!*!!!!!!!!!!! !!!  !!*!!!!!!! !!!!!!!!!!!!!!!!!!! !!!!**!!!!*!!!!!!!!!!!!!!!! !
```

```
NTDB id 968542 MHH76 RS14715 WP 020452412.1  AKRGMEQFRRTKRPGLKALTKIAGAEIHSADEETIGFQIAPRLNAVGRIEQADPAVYLLNTEDETEAEELAEDINALNKE  320
NTDB id 354 BSU 27620 NP 390640.1            ATLGLERLRRTNRLGLKELIKLSGGDIGEANEETVGFQLAPRLNAVGRIEQADPAVHLLMSEDSFEAEELAAEIDQLNKE  320
consensus                                    !  !*!  !!! !*!!! ! !* !**!* ! !!!*!!!*!!!!!!!!!!!!!!!!!*!! *!!  !!!!!! *!  !!!!
```

```
NTDB id 968542 MHH76 RS14715 WP 020452412.1  RQKIVNQMTEEAVQMIEEEGLDQPVIVAARPGWNPGVVGIVASKLVERYYRPAIVLGIDEEKGIAKGSARSIKGFDLFQN  400
NTDB id 354 BSU 27620 NP 390640.1            RQKMVSKMTDEAIEMVEQQGLDQTAIVVAKAGWNPGVVGIVASKLVDRFYRPAIVLGIDEEKGIAKGSARSIRGFNLFES  400
consensus                                    !!!*!  !!*!!* !*!  !!!!* !! !**!!!!!!!!!!!!!!!*!*!!!!!!!!!!!!!!!!!!!!!!!*!! !!
```

```
NTDB id 968542 MHH76 RS14715 WP 020452412.1  LSECRDILPHFGGHPMAAGMTLNLEDVSALRERINRQAEAVLTEEDFIPVQDVDLCCRLEDITVDSIAEMNMLAPFGTGN  480
NTDB id 354 BSU 27620 NP 390640.1            LSECRDILPHFGGHPMAAGMTLKAEDVPDLRSRLNEIADNTLTEEDFIPVQEVDLVCGVEDITVESIAEMNMLSPFGMLN  480
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!  !!!* !! !*!  !*  !!!!!!!!!!*!!!*! *!!!!!*!!!!!!!! !!!  !
```

```
NTDB id 968542 MHH76 RS14715 WP 020452412.1  PKPFVLVSDVKIDDSRKIGANKNHLKLVLADGENKLDCIGFYKGAIEDGIVPGAKISIVGELSINEWNNRKKPQLMIKDA  560
NTDB id 354 BSU 27620 NP 390640.1            PKPHVLVENAVLEDVRKIGANKTHVKMTIRNESSQLDCVGFNKGELQEGIVPGSRISIVGEMSINEWNNRKKPQLMIKDA  560
consensus                                    !!!*!!!    **! !!!!!!! !*!* *      !!!*!! !! * *!!!!! *!!!!!!*!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 968542 MHH76 RS14715 WP 020452412.1  AVNEWQLFDLRGKRSWEEKILQLDPAKRACICFREETKAKLAGTGLEEELTVISGPEEAERLDLESRYAVFIDIPPSLDI  640
NTDB id 354 BSU 27620 NP 390640.1            AVSEWQLFDLRGKRTWEDTVSALPSAKRAIVSFKEDSTTLLQTEDLRREVHVISSKDQAKAFDLDGAYIVLLDPPPSLDM  640
consensus                                    !! !!!!!!!!!!!*!!* *  !**!!!!***!*!**   !    !  !**!!! ** !   !!*  ! ! *!*!!!!!*
```

logo

```
NTDB id 968542 MHH76 RS14715 WP 020452412.1  FDQVIKGKKLERIYLIFYQSDEHFFSTFPTREYFKWYYAFLLKRGSFDLPKYGGELARHKGWTKDTIDFMTKVFFELGFV  720
NTDB id 354 BSU 27620 NP 390640.1            LARLLEGKAPERIYFIFLNHEDHFLSTFPARDHFKWYYAFLLKRGAFDVKKHGSELAKHKGWSVETINFMTKVFFDLGFV  720
consensus                                       **  !! *!!!! !! ****!! !!!! !**!!!!!!!!!!!! !!**!*! !!!*!!!!* *!! !!!!!!!*!!!!
```

logo

```
NTDB id 968542 MHH76 RS14715 WP 020452412.1  TIENGVLSVVYHAERRDLTDSETYREKQRLIELEQKLIYSSAGELKQWLDKRMAENAVAYKV....  782
NTDB id 354 BSU 27620 NP 390640.1            KIENGVLSVVSGAKKRDLTDSQTYQAKQQLMELDQKLNYSSAEELKEWLNKLMKQDSEAYESTRRT  786
consensus                                     !!!!!!!!! *! *!!!!!! !!  !! !*!!*!!! !!!! !!! !! ! !      !!  ****
```

X non conserved

X similar

X ≥ 50% conserved