Block 1

```
logo
NTDB id 1045 H0N27 RS16330 WP 168727019.1   MAEQQPLVLLVDDEEDLCLLMQMTLARMGIKTHLAYRVEQAKQLFT..QFHYDACLTDLNLPDGSGLDLVKHVSQNYPNT   78
NTDB id 185424 A9404 RS08210 WP 066100082.1  ....MPACLIIDDEPDIRTLIALALGRDGITCHLAADLRAEARQLLDAAGEELDFCLTDMRLPDGDGLDLLEEIRDTFPTL  76
NTDB id 1473 PAKAF RS24000 WP 003094694.1    ..MSRQKALIVDDEPDIRELLEITLGRMKLDTRSARNVKEARELLA..REPFDLCLTDMRLPDGSGLDLVQYIQQRHPQT  76
consensus                                         * !**!!!!!* *!**!!** *! !**!* !***!   *!    * !!!!!*!!!!!!!!!! * * *!**
```

Block 2

```
logo
NTDB id 1045 H0N27 RS16330 WP 168727019.1    PIAVLTAYGNMDIAIAALKAGAFDFVSKPVNQVHLDQLLQKALNRQKVEHDTT.........ENALENKLLIGRSLPIQQ  149
NTDB id 185424 A9404 RS08210 WP 066100082.1  PVAVITAHGQVDAAVRALKAGAFDFVSKPIEQLVLKRLVRDALKRRAADATTEPDDTPISRTEAPVDASPLLGESRAMQA  156
NTDB id 1473 PAKAF RS24000 WP 003094694.1    PVAMITAYGSLDTAIQALKAGAFDFLTKPVDLGRLRELVATALRLRNPEAFEAP...........V.DNRLLGESPPMRA  144
consensus                                     !*!   **!! *   ! !!!!!!!!! *** !* !!  !  *   ****  !*!    *   * ** !*!* ! ****
```

Block 3

```
logo
NTDB id 1045 H0N27 RS16330 WP 168727019.1    LRIAIKKIARSQAPVFVTGESGTGKEVVANLVHRLSNRSEGPFIAINCGAIPTELMESELFGHKKGSFTGATQDKQGLIL  229
NTDB id 185424 A9404 RS08210 WP 066100082.1  LRMTIDKVARSQAPVFIHGESGTGKELVARQIHARSGRADGPFVPVNCGAIPADLIESELFGHKKGAFTGAHQSNSGLFR  236
NTDB id 1473 PAKAF RS24000 WP 003094694.1    LRNQIGKLARSQAPVYISGESGSGKELVARLIHEQGPRIERPFVPVNCGAIPSELMESEFFGHKKGSFTGAIEDKQGLFQ  224
consensus                                     !!*  !  *!!!!!!!**!!!**!!!!!* !!!  !   *   ! **!!****!!!**!**!*!!!!!**!!! ****!!*
```

Block 4

```
logo
NTDB id 1045 H0N27 RS16330 WP 168727019.1    SAHGGSLFLDEIIAELPLSMQVKLLRAVQEKKIIRPVGSDQEIDVDFRVISASHQDLDLLVRQGKFRQDLFFRIHVMDLILP  309
NTDB id 185424 A9404 RS08210 WP 066100082.1  AAEGGTLLLDEVAELPLSLQVKLLRVVIQERKVRPVGEHSEIPVDVRILSASHQDLAAAVREGRFRHDLFYRLNVIELKVP  316
NTDB id 1473 PAKAF RS24000 WP 003094694.1    AASGGTLFLDEVADLPMAMQVKLLRAIQEKAVRAVGGQQEVAVDVRILCATHKDLAAEVGAGRFRQDLYYRLNVIELRVP  304
consensus                                     *! ! !!****!! **   !!!!!*!!*!*  ! *** !* ! !!!!****!!** *  !*!!*!!*!!***!*!!**!**!
```

Block 5

```
logo
NTDB id 1045 H0N27 RS16330 WP 168727019.1    PLRERGEDVLLLANHFIQKICMEWETPPKQLTEAAETYLLQQHFPGNVRELRNMIERAITLSEDATIDISHLHPAPLRAN  389
NTDB id 185424 A9404 RS08210 WP 066100082.1  PLRDRLDDLPIILCRHILDKLAAREQCAPMDITPDALSWLASLSFEGNIRELENRLERAMALSDGDRITRKVLSDSLMTPA  396
NTDB id 1473 PAKAF RS24000 WP 003094694.1    PLRERREDIPLLAERILKRLAGDTGLPAARLTGDAQEKLKNYRFPGNVRELENMLERAYTLCEDDQIQPHDLRLADA.P.  382
consensus                                     !!!!! *!* !!!  *  * !   *  ! *!   ! *! *! * **!  ! !*!!!!!!****! **  !**!     * * *
```

Block 6

```
logo
NTDB id 1045 H0N27 RS16330 WP 168727019.1    ISNPFASAAQSIQTTVAAPQAVKKLPSEGLERYLENIEKDILLNALNMTHWNRTLAAKKLGMTFRSLRYRLKKFGLDTET  469
NTDB id 185424 A9404 RS08210 WP 066100082.1  AHLPAQDA......HLEIPGLPSLNFGQAPHNALEAEFQRMVLNALEDTRWNRSEAAFQLGMTLRQLRYRLSKWGVE...  467
NTDB id 1473 PAKAF RS24000 WP 003094694.1    ..............GASQEGAASLSEIDNLEDYLEDIERKLIMQALEETRWNRTAAAQRLGLTFRSMRYRLKKLGID...  445
consensus                                        *    *    *  * ***  *!!  *!*******!!!**!!*!!!****!!!!!!!!*!*!!!!!*!*!!!*
```
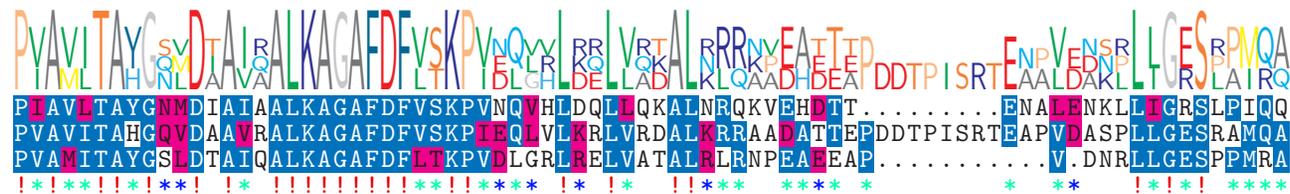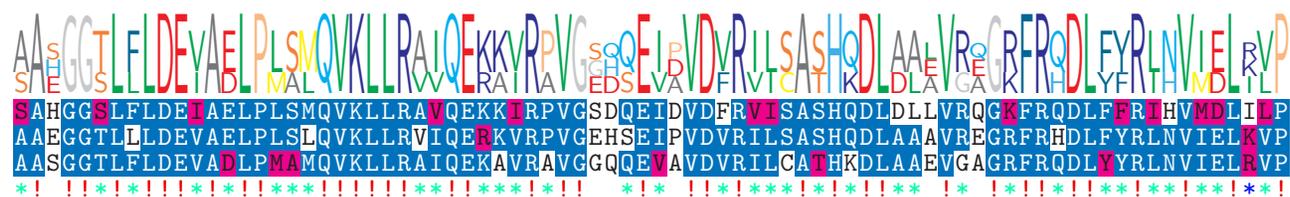
logo

EQEV

```
NTDB id 1045 H0N27 RS16330 WP 168727019.1    EQEV    473
NTDB id 185424 A9404 RS08210 WP 066100082.1    ....    467
NTDB id 1473 PAKAF RS24000 WP 003094694.1      ....    445
```
consensus

X non conserved
X similar
X ≥ 50% conserved