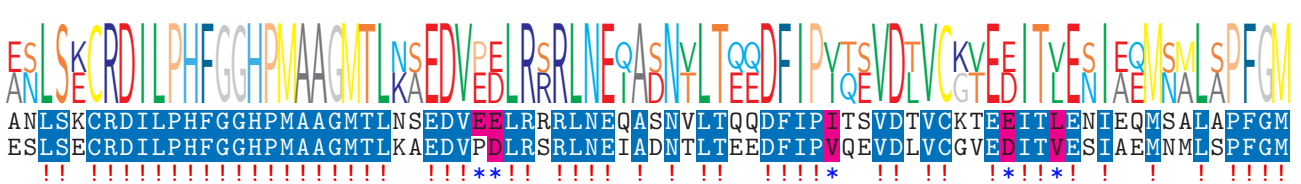
```
NTDB id 272040 C2I28 RS04800 WP 028411690.1  MLQSKKRWNVQECDEQLVNEFVENLNITPLVASLLLNRGMTTVEAARERFLHVDAQTFHDPFLLHDMDKAVARIQQAIDHN  80
NTDB id 354 BSU 27620 NP 390640.1            MLASKMRWEIQRPDQDKVKSLTEQLHITPLVASLLVKRGFDTAESARLFLHTKDADFYDPFEMKGMKEAADRIKQAISQQ  80
consensus                                    !! !! !! *!  !  !  !*!*!!!!!!!!!* !! ! ! !! !!!  !*!!! ** !  !  !! !!! **
```

```
NTDB id 272040 C2I28 RS04800 WP 028411690.1  EKIMIYGDYDADGVSSTSVMLSALQQLGADTDFYIPNRFTEGYGPNKAAFDKINAGGYQLVITVDTGISAVEETAYAREL  160
NTDB id 354 BSU 27620 NP 390640.1            EKIMIYGDYDADGVTSTSVMLHTLQKLSAQVDFYIPDRFKEGYGPNEQAFRSIKERGFSLIITVDTGIAAVHEAKVAKEL  160
consensus                                    !!!!!!!!!!!!!!*!!!!!!* !! ! !  !!!!! !! !!!!!!  !!  !  !* !*!!!!!!! !!*!  !*!!
```

```
NTDB id 272040 C2I28 RS04800 WP 028411690.1  DFDLIITDHHEPGPVLPDAYAIIHPKLPGSTYPFKELAGVGVAFKLAHALLGELPEHLLELAVIGTIADLVPLVDENRLI  240
NTDB id 354 BSU 27620 NP 390640.1            GLDVIITDHHEPGPELPDVRAIVHPKQPGCTYPFKELAGVGVAFKLAHALLGELPDELLDLAAIGTIADLVPLHDENRLI  240
consensus                                      !*!!!!!!!!!!! !!!  !!*!!! !!*!!!!!!!!!!!!!!!!!!!!!!!!**!!*!! !!!!!!!!!!*!!!!!!
```

```
NTDB id 272040 C2I28 RS04800 WP 028411690.1  ARKGLDYLKLTKRTGIEALLSVCGVKREEITEDTIGFAMAPRINAVGRLQDADPAVHLLMTTNAEEAKGLAKEIDALNKE  320
NTDB id 354 BSU 27620 NP 390640.1            ATLGLERLRRTNRLGLKELIKLSGGDIGEANEETVGFQLAPRLNAVGRIEQADPAVHLLMSEDSFEAEELAAEIDQLNKE  320
consensus                                    !  !!* !* ! ! !*  !* **!   !  !*!*!! *!!!*!!!!!* !!!!!!!!!!*    !!  !! !!! !!!!
```

```
NTDB id 272040 C2I28 RS04800 WP 028411690.1  RQQIVNDITEEAVEFVESMYPPDENSVLIVEGEGWNAGVVGIVASRLVEKFYRPTIVLSVDSENRIAKGSARSIQGFDLF  400
NTDB id 354 BSU 27620 NP 390640.1            RQKMVSKMTDEAIEMVEQQGL..DQTAIVVAKAGWNPGVVGIVASKLVDRFYRPAIVLGIDEEKGIAKGSARSIRGFNLF  398
consensus                                    !! *!  *!*!!*! !!  ****** **!  !!!*!!!!!!!*!!**!!!! !!! *!  !  !!!!!!!!! !! !!
```




```
NTDB id 272040 C2I28 RS04800 WP 028411690.1  ANLSKCRDILPHFGGHPMAAGMTLNSEDVEELRRRLNEQASNVLTQQDFIPITSVDTVCKTEEITLENIEQMSALAPFGM  480
NTDB id 354 BSU 27620 NP 390640.1            ESLSECRDILPHFGGHPMAAGMTLKAEDVPDLRSRLNEIADNTLTEEDFIPVQEVDLVCGVEDITVESIAEMNMLSPFGM  478
consensus                                      !! !!!!!!!!!!!!!!!!!!!!  !!!**!! !!!!! ! ! !!  !!!!*  !! !!  !*!!*! !  !  ! !!!!
```

```
NTDB id 272040 C2I28 RS04800 WP 028411690.1  HNPKPKVLIKDVHTTSMRKIGANKNHLKLVFEDSGVSVDAVGFGLGYILDEVSPIAKVSLVGELSINEWNNMRKPQLMVE  560
NTDB id 354 BSU 27620 NP 390640.1            LNPKPHVLVENAVLEDVRKIGANKTHVKMTIRNESSQLDCVGFNKGELQEGIVPGSRISIVGEMSINEWNNRKKPQLMIK  558
consensus                                    *!!!!*!!*   *   *!!!!!!! !*!*        *!*!!!  ! * * * !  **!*!!!*!!!!!!! *!!!!!*
```

X non conserved

X similar

X ≥ 50% conserved