


```
NTDB id 363459 EQK03 RS11070 WP 000941230.1  MLQPKTRWKEKEYNDERVSELASKLQLSPLVVSLFLGRGLDTEDKILDFLNTENQEFHDPFLLEGMDRTVERVNKAIQNG  80
NTDB id 354 BSU 27620 NP 390640.1            MLASKMRWEIQRPDQDKVKSLTEQLHITPLVASLLVKRGFDTAESARLFLHTKDADFYDPFEMKGMKEAADRIKQAISQQ  80
consensus                                    !! *! !!    *  **!  !  !***!!! !! * !! !! *    !!*!  *!*!!! * !!    *!*  !! *
```




```
NTDB id 363459 EQK03 RS11070 WP 000941230.1  EQILIFGDYDADGVSSTIVLYLALQELGAEVEFYIPNRFTEGYGPNEEAFRWAHSAGFSLIITVDTGIAAVHEANVAKEL  160
NTDB id 354 BSU 27620 NP 390640.1            EKIMIYGDYDADGVTSTSVMLHTLQKLSAQVDFYIPDRFKEGYGPNEQAFRSIKERGFSLIITVDTGIAAVHEAKVAKEL  160
consensus                                    ! !*!*!!!!!!!!*!!*!* * !! ! ! !*!!!! !! !!!!!!! !!!  *  !!!!!!!!!!!!!!!!!! !!!!!
```



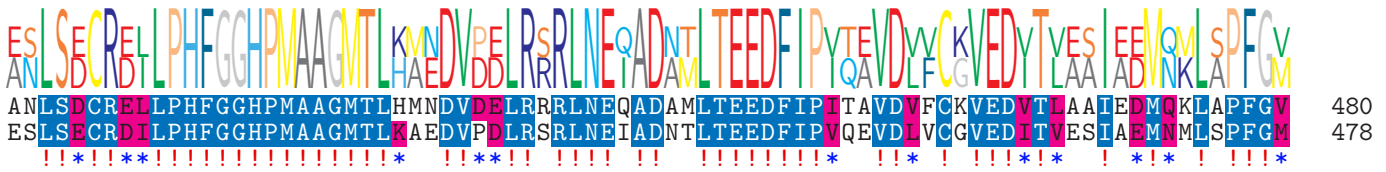

```
NTDB id 363459 EQK03 RS11070 WP 000941230.1  GIDLIITDHHEPPPELPEALAIIHPKLDGGVYPFHYLAGVGVAFKVAHALLGRVPEHLLEIAVIGTVADLVSLHGENRLL  240
NTDB id 354 BSU 27620 NP 390640.1            GLDVIITDHHEPGPELPDVRAIVHPKQPGCTYPFKELAGVGVAFKLAHALLGELPDELLDLAAIGTIADLVPLHDENRLI  240
consensus                                    !*!*!!!!!!!!*!!!!*  !!*!!! *!* !!!* !!!!!!!!!*!!!!!! *!**!!**! !!!*!!!!*!! !!!!*
```




```
NTDB id 363459 EQK03 RS11070 WP 000941230.1  VKRGLKHMRMTRNIGLKALFKVANVSQSEITEESIGFSIAPRINAVGRLEDAAPAVHLLLSDDPEEAKELAEEIDELNKL  320
NTDB id 354 BSU 27620 NP 390640.1            ATLGLERLRRTNRLGLKELIKLSGGDIGEANEETVGFQLAPRLNAVGRIEQADPAVHLLMSEDSFEAEELAAEIDQLNKE  320
consensus                                       !! **! !  *!!! ! !*    !  !!**!! *!!!*!!!!!*! ! !!!!!!*!*!* !! !!! !!! !!!
```




```
NTDB id 363459 EQK03 RS11070 WP 000941230.1  RKDIVKQITEEAIAEVENNFPPEENKVLVLAKEGWNPGVIGIVASKLVERFYRPTIVLSIDPIKETAKGSARSIAGFDLF  400
NTDB id 354 BSU 27620 NP 390640.1            RQKMVSKMTDEAIEMVEQQG..LDQTAIVVAKAGWNPGVVGIVASKLVDRFYRPAIVLGIDEEKGIAKGSARSIRGFNLF  398
consensus                                    !  *!  *!*!!!  !!** ** **  *!*!! !!!!!!*!!!!!!!!*!!!!! !!! !!* !  !!!!!!!! !! !!
```




```
NTDB id 363459 EQK03 RS11070 WP 000941230.1  ANLSDCRELLPHFGGHPMAAGMTLHMNDVDELRRRLNEQADAMLTEEDFIPITAVDVFCKVEDVTLAAIEDMQKLAPFGV  480
NTDB id 354 BSU 27620 NP 390640.1            ESLSECRDILPHFGGHPMAAGMTLKAEDVPDLRSRLNEIADNTLTEEDFIPVQEVDLVCGVEDITVESIAEMNMLSPFGM  478
consensus                                      !!*!!**!!!!!!!!!!!!!!!!*  !!**!! !!!! !!  !!!!!!!!*  !!* ! !!!*!*  ! *!* ! !!!*
```




```
NTDB id 363459 EQK03 RS11070 WP 000941230.1  GNPKPRIAVKDAELESIRAIGSDGSHLKMALRDGQATLDTIGFGFGAYAKEISPVAKVSVIGEASINEWNNFKKPQLMVQ  560
NTDB id 354 BSU 27620 NP 390640.1            LNPKPHVLVENAVLEDVRKIGANKTHVKMTIRNESSQLDCVGFNKGELQEGIVPGSRISIVGEMSINEWNNRKKPQLMIK  558
consensus                                     !!!!** !  ! !! *! !!   *!*!! *!     !!**!!  !     ! !  **!**!! !!!!!!! !!!!!!*
```




```
NTDB id 363459 EQK03 RS11070 WP 000941230.1  DIAVEAWQLFDWRSMRNAEANLAELPKEKITMVYFSEEVLNKFSLESYKEKLM.....HASEVTHLDDQYIVLLDLPKGT  635
NTDB id 354 BSU 27620 NP 390640.1            DAAVSEWQLFDLRGKRTWEDTVSALPSAKRAIVSFKEDSTTLLQTEDLRREVHVISSKDQAKAFDLDGAYIVLLDPPPSL  638
consensus                                    ! !!  !!!!! !  !  !  *  !!  !  *! ! !*       !  *  ********     *!!  !!!!!!*!*
```




```
NTDB id 363459 EQK03 RS11070 WP 000941230.1  DELRELFKVGFPARIYTLFYQENNHLFSTVPTREHFKWYYSFLSQKTPFSLRQYGEQLCRHKGWSKDTVNFMTQVFFELE  715
NTDB id 354 BSU 27620 NP 390640.1            DMLARLLEGKAPERIYFIFLNHEDHFLSTFPARDHFKWYYAFLLKRGAFDVKKHGSELAKHKGWSVETINFMTKVFFDLG  718
consensus                                    ! !  !     ! !!! *! **  !  !! ! !*!!!!!! !!  * *! ** *!  !**!!!!! *!*!!!! !!!*!
```




```
NTDB id 363459 EQK03 RS11070 WP 000941230.1  FVTIKDGVIFMADKKQKRDLIESNTYREKMNHLQLEKELVYSTYQQLYTWFETIRNHKEVEQLG....   779
NTDB id 354 BSU 27620 NP 390640.1            FVKIENGVLSVVSGAKKRDLTDSQTYQAKQQLMELDQKLNYSSAEELKEWLNKLMKQDSEAYESTRRT   786
consensus                                    !! !  !!* *     !!!! *!*!!  ! *** !*  ! !!*   !  !   *  *       ****
```

X non conserved

X similar

X ≥ 50% conserved