```
logo
NTDB id 78598 GsuE55 RS01445 WP 061912359.1  MLQAKTRWEVERPDEQAVRRLAEEAGIEPLLARLLVRRGVRTAAEAEAFLRPVGQPFHDPFLLHGMERAVRRLERAIHHG   80
NTDB id 354 BSU 27620 NP 390640.1            MLASKMRWEIQRPDQDKVKSLTEQLHITPLVASLLVKRGFDTAESARLFLHTKDADFYDPFEMKGMKEAADRIKQAISQQ   80
consensus                                    !!  ! !!!* !!!   !* ! !  *! !!*! !!!*!!  !! !  !!**   *!*!!! **!!  !  !*  !!**

logo
NTDB id 78598 GsuE55 RS01445 WP 061912359.1  ERVLVYGDYDADGVCSTSVMVSALQEAGAAVEFYIPNRFTEGYGPNLAAFRAAKERGVSVIVTVDNGIAALKEVAAAREW  160
NTDB id 354 BSU 27620 NP 390640.1            EKIMIYGDYDADGVTSTSVMLHTLQKLSAQVDFYIPDRFKEGYGPNEQAFRSIKERGFSLIITVDTGIAAVHEAKVAKEL  160
consensus                                    !****!!!!!!!!!*!!!!!** !!   ! !*!!!! !! !!!!!!  !!!  !!!! !*!*!!! !!!!**!   !*!

logo
NTDB id 78598 GsuE55 RS01445 WP 061912359.1  GLDVIVTDHHEPGPSLPEAYAIIHPKHPGSTYPFHSLAGVGVAFKVAHALLGRVPRHLLDLVAIGTIADLVPLVGENRLL  240
NTDB id 354 BSU 27620 NP 390640.1            GLDVIITDHHEPGPELPDVRAIVHPKQPGCTYPFKELAGVGVAFKLAHALLGELPDELLDLAAIGTIADLVPLHDENRLI  240
consensus                                    !!!!!*!!!!!!!!! !!*  !!*!!!*!!*!!!!* !!!!!!!!!*!!!!!! *! *!!!! !!!!!!!!!!!* !!!!*

logo
NTDB id 78598 GsuE55 RS01445 WP 061912359.1  AAQGLAVLRETTRIGLRALFQQCRIQPSQIDEQTVGFAIAPRLNAVGRLGGADPAVALLMTDDEDEAMQLAAEMDERNRE  320
NTDB id 354 BSU 27620 NP 390640.1            ATLGLERLRRTNRLGLKELIKLSGGDIGEANEETVGFQLAPRLNAVGRIEQADPAVHLLMSEDSFEAEELAAEIDQLNKE  320
consensus                                    !  !!  !! ! !*!!* !   *   *    ! !!!! *!!!!!!!!!*  !!!!!*!!**!  !!  !!!!*!  !*!

logo
NTDB id 78598 GsuE55 RS01445 WP 061912359.1  RQQLVAQIADEAADMVRRQYPPEQHRVLVVAGEGWNPGVVGIVASKLVEQFYRPAVVLSIDRDKGIAKGSARSIHGFDLF  400
NTDB id 354 BSU 27620 NP 390640.1            RQKMVSKMTDEAIEMVEQQGL..DQTAIVVAKAGWNPGVVGIVASKLVDRFYRPAIVLGIDEEKGIAKGSARSIRGFNLF  398
consensus                                    !! *!  * !!! *!!  ! *** *  *!!!  !!!!!!!!!!!!!!!!* !!!!!*!! !! *!!!!!!!!!!!*!! !!

logo
NTDB id 78598 GsuE55 RS01445 WP 061912359.1  ASLSKCRDMLPHFGGHPMAAGMTLALDDVERLRQRLNAIAAETLVEDDFIPPTFIDAVCSVEELTLSAARSFERLAPFGV  480
NTDB id 354 BSU 27620 NP 390640.1            ESLSECRDILPHFGGHPMAAGMTLKAEDVPDLRSRLNEIADNTLTEEDFIPVQEVDLVCGVEDITVESIAEMNMLSPFGM  478
consensus                                     !!! !!!*!!!!!!!!!!!!!!!  *!!* !! !!! !!  !! !*!!!!*  *! !! !!**!*        ! !!!*

logo
NTDB id 78598 GsuE55 RS01445 WP 061912359.1  GNPRPLLLIEEAAVETMRRVGANGAHMKAVFSQQQAAIDVIGFGLGPLCEEIAPGTCVSAVGELLVNEWNGMAKPQLSLC  560
NTDB id 354 BSU 27620 NP 390640.1            LNPKPHVLVENAVLEDVRKIGANKTHVKMTIRNESSQLDCVGFNKGELQEGIVPGSRISIVGEMSINEWNNRKKPQLMIK  558
consensus                                     !!*!**!*! ! *! *!**!!!  !*!    *    *!**!!  !*!*! ! !!***! !!!* *!!!!   !!!! **
```

```
logo
NTDB id 78598 GsuE55 RS01445 WP 061912359.1  DVSVNRWQLFDARGCRDVHSLLERLPEEKRLLVAFRRQTETRPDLAPFCRELHFVMTEKEAEALPIDGRYVVLLDLPPRL  640
NTDB id 354 BSU 27620 NP 390640.1            DAAVSEWQLFDLRGKRTWEDTVSALPSAKRAIVSFKEDSTTLLQTEDLRREVHVISSKDQAKAFDLDGAYIVLLDPPPSL  638
consensus                                    !  !  !!!!! !!*!  *  *  !!  !! *! !*  * ! *   * *!!*! * *   ! ! **!! !*!!!!*!! !

logo
NTDB id 78598 GsuE55 RS01445 WP 061912359.1  DLLGALLGNGQPARIYAVFAQPEGQFFRTFPTRDHFKWFYAFLHKHRSFPLAERGGELARARGWTTETVHFMAEVFLELG  720
NTDB id 354 BSU 27620 NP 390640.1            DMLARLLEGKAPERIYFIFLNHEDHFLSTFPARDHFKWYYAFLLKRGAFDVKKHGSELAKHKGWSVETINFMTKVFFDLG  718
consensus                                    !*!* !!    ! !!! *! * ! *!  !!! !!!!!!*!!!!*!*  !**  *! !!!***!!* !!**!!  !! *!!

logo
NTDB id 78598 GsuE55 RS01445 WP 061912359.1  FVREQNGVITLVRQPVKRDLTESRAYRRHRDELEAEHQLLYSTYEQLKRCLTEMIRSQTNEEASASWI  788
NTDB id 354 BSU 27620 NP 390640.1            FVKIENGVLSVVSGAKKRDLTDSQTYQAKQQLMELDQKLNYSSAEELKEWLNKLMKQDSEAYESTRRT  786
consensus                                    !!*  !!!***!  * !!!!!*!  !  *   *! ** ! !!* ! !! *!  ***  *    !
```

X non conserved

X similar

X ≥ 50% conserved