```
logo

NTDB id 1029103 NST54 RS12460 WP 368985381.1  MLQAKTRWAVREGNRQKAEQLMNELQLTPLVANLLVNRGLDTAESVKKFLNP.DEEFHHPFLLHDMDICVERIFQAIRNR   79
NTDB id 354 BSU 27620 NP 390640.1             MLASKMRWEIQRPDQDKVKSLTEQLHITPLVASLLVKRGFDTAESARLFLHTKDADFYDPFEMKGMKEAADRIKQAISQQ   80
consensus                                     !!  ! !! *  *  !  !  !**!!!!! !!! !! !!!!! * !!***! *!**!! ** !  * *!! !!! *

logo

NTDB id 1029103 NST54 RS12460 WP 368985381.1  ERMVVYGDYDADGVTSTYVLLKTLRELGADADFYIPNRFTEGYGPNEKAFRTLKEAGYHLIITVDNGIAGIHEAKVAKEI   159
NTDB id 354 BSU 27620 NP 390640.1             EKIMIYGDYDADGVTSTSVMLHTLQKLSAQVDFYIPDRFKEGYGPNEQAFRSIKERGFSLIITVDTGIAAVHEAKVAKEL   160
consensus                                     !****!!!!!!!!!!!! !*!*!!  ! !  !!!!! !! !!!!!!! !!!**!! !**!!!!!! !!!**!!!!!!!!*

logo

NTDB id 1029103 NST54 RS12460 WP 368985381.1  GIDLIITDHHEPGPELPDCLAIIHPKRADSNYPFKDLAGVGVAFKLVTALLGKVPEELLPFAAIGTIADLVPLKDENRLI   239
NTDB id 354 BSU 27620 NP 390640.1             GLDVIITDHHEPGPELPDVRAIVHPKQPGCTYPFKELAGVGVAFKLAHALLGELPDELLDLAAIGTIADLVPLHDENRLI   240
consensus                                     !*!*!!!!!!!!!!!!!!!* !!*!!! * * !!!!*!!!!!!!!!! *!!!! *!*!!!* !!!!!!!!!!!!*!!!!!!

logo

NTDB id 1029103 NST54 RS12460 WP 368985381.1  VKKALPLLQSSDHFGLKALMRVAGINQQELNEESISFGLAPRINAPGRLYHAGMVVDLFLANDKDEAEQLAHEINEINKE   319
NTDB id 354 BSU 27620 NP 390640.1             ATLGLERLRRTNRLGLKELIKLSGGDIGEANEETVGFQLAPRLNAVGRIEQADPAVHLLMSEDSFEAEELAAEIDQLNKE   320
consensus                                        *!* !  * * !!! !*** !    ! !!!** ! !!!!*!!*!!* *! * !*! *  !  !!! !!*!!  *!!!

logo

NTDB id 1029103 NST54 RS12460 WP 368985381.1  RQEIVDKITVEAIEEISQSSNYIDDQVIVVGKEGWHAGVIGIVASRLVEKFYRPVIVFSFDQATGLAKGSARSIPKFNMY   399
NTDB id 354 BSU 27620 NP 390640.1             RQKMVSKMTDEAIEMVEQQ..GLDQTAIVVAKAGWNPGVVGIVASKLVDRFYRPAIVLGIDEEKGIAKGSARSIRGFNLF   398
consensus                                     !! *! !*! !!!! * ! ** *!   !!!*! !!**!!*!!!!!*!!**!!!! !!   !   !*!!!!!!!!* !!**

logo

NTDB id 1029103 NST54 RS12460 WP 368985381.1  QNLFQCKELLPHFGGHPIAAGLTMKISDVPELRERLNRLASEQLDEEDFIPVTEVDGMIPLEDIHLQSVKELLQFAPFGT   479
NTDB id 354 BSU 27620 NP 390640.1             ESLSECRDILPHFGGHPMAAGMTLKAEDVPDLRSRLNEIADNTLTEEDFIPVQEVDLVCGVEDITVESIAEMNMLSPFGM   478
consensus                                       !  !***!!!!!!!!*!!!*!*!  !!!*!! !!! *!   ! !!!!!!! !!! ****!!!** !* !*    !!!

logo

NTDB id 1029103 NST54 RS12460 WP 368985381.1  ENPKPLLLINDIQLPQIKKVGADKNHLKAIIENHSAQLDCIGFHMGDLADEISPLSKASVIGELAINEWNHVSKPQFILK   559
NTDB id 354 BSU 27620 NP 390640.1             LNPKPHVLVENAVLEDVRKIGANKTHVKMTIRNESSQLDCVGFNKGELQEGIVPGSRISIVGEMSINEWNNRKKPQLMIK   558
consensus                                      !!!!**!*    !* **!*!! ! !*!  ! !*! !!!!*!!* !*! * ! ! !* !**!!* !!!!!*  !!! **!
```

```
logo
NTDB id 1029103 NST54 RS12460 WP 368985381.1  DICIDEWQLFDYRGNRRIDQWIHQVPEKSSKLIVFRKSTVTQMQTSELRRGVHYISSKDSAKNFDLDGMYIVLLDLPQSK   639
NTDB id 354 BSU 27620 NP 390640.1             DAAVSEWQLFDLRGKRTWEDTVSALPSAKRAIVSFKEDSTTLLQTEDLRREVHVISSKDQAKAFDLDGAYIVLLDPPPSL   638
consensus                                     ! ** !!!!!! !! !  *  ** *!     ** !*  *   **  *    ***!*!   !! *!*!!  !!!*!*!*!

logo
NTDB id 1029103 NST54 RS12460 WP 368985381.1  KQLESLLAGKQVARIYAHFYQDDIELLNTMPTREHFKWMYAFLHKKGVFDFRRYGAELAKYKGWSLHTIKFMLTVFFELN   719
NTDB id 354 BSU 27620 NP 390640.1             DMLARLLEGKAPERIYFIFLNHEDHFLSTFPARDHFKWYYAFLLKRGAFDVKKHGSELAKHKGWSVETINFMTKVFFDLG   718
consensus                                       !  !! !! * !!! *! *** * ! ! ! !*!!!! !!!!*!*! !! ***! !!!!*!!!!**!! !!  !!!*!

logo
NTDB id 1029103 NST54 RS12460 WP 368985381.1  FVTMDNGILSVIKNPSKRDLSESKTYQLRQEIIQLEKELLFSSYKQLKNSLDRFIGTANMKEAKAWI.....   786
NTDB id 354 BSU 27620 NP 390640.1             FVKIENGVLSVVSGAKKRDLTDSQTYQAKQQLMELDQKLNYSSAEELKEWLNKLMKQDS....EAYESTRRT   786
consensus                                     !! **!!*!!!*  * !!!!**! !!! *! ** !*  ! *!!   !!  ! * *    **** !* *****
```

X non conserved

X similar

X $\geq$50% conserved