```
logo

NTDB id 364827 BPGQ101 RS13020 WP 047946499.1  MLLSKMRWEYEHPSEEKVKSLSENLNISALTASLLVQRGLEEVEEARSFLFDQKAEFHDPFLLKGMKEAVERINKAIEEQ   80
NTDB id 354 BSU 27620 NP 390640.1              MLASKMRWEIQRPDQDKVKSLTEQLHITPLVASLLVKRGFDTAESARLFLHTKDADFYDPFEMKGMKEAADRIKQAISQQ   80
consensus                                      !! !!!!!!  *!  *!!!!!*!*!*!**! !!!!! !! *  ! !! !!*   !*!*!!! *!!!!!! *!!  !!  !

logo

NTDB id 364827 BPGQ101 RS13020 WP 047946499.1  ESIVIFGDYDADGVTSTSVLLHTLKERSAKVDFYIPDRFKEGYGPNEQAFRYIKEQGASLVITVDTGIAAVNEARIAKEI  160
NTDB id 354 BSU 27620 NP 390640.1              EKIMIYGDYDADGVTSTSVMLHTLQKLSAQVDFYIPDRFKEGYGPNEQAFRSIKERGFSLIITVDTGIAAVHEAKVAKEL  160
consensus                                      ! !*!*!!!!!!!!!!!!!*!!!!  !! !!!!!!!!!!!!!!!!!!!!! !!! ! !!*!!!!!!!!!!*!!**!!!*

logo

NTDB id 364827 BPGQ101 RS13020 WP 047946499.1  GLDLIITDHHEPSEELPEALAIVHPKQPGCEYPFKELAGVGVAFKVAHALLGKLPVELLDLAAIGTIADLVPLHDENRWL  240
NTDB id 354 BSU 27620 NP 390640.1              GLDVIITDHHEPGPELPDVRAIVHPKQPGCTYPFKELAGVGVAFKLAHALLGELPDELLDLAAIGTIADLVPLHDENRLI  240
consensus                                      !!!*!!!!!!!! *!!!*  !!!!!!!!!! !!!!!!!!!!!!!!*!!!!!! !! !!!!!!!!!!!!!!!!!!!!! *

logo

NTDB id 364827 BPGQ101 RS13020 WP 047946499.1  AKKGLMQLRQSRRPGLKALLKEAGATLEEANEETVGFQLAPRLNAVGRIEQADPAVHLLMTEDMDEAEELARFVQELNKE  320
NTDB id 354 BSU 27620 NP 390640.1              ATLGLERLRRTNRLGLKELIKLSGGDIGEANEETVGFQLAPRLNAVGRIEQADPAVHLLMSEDSFEAEELAAEIDQLNKE  320
consensus                                      !  !!  !! * !*!!! !*!  !* * !!!!!!!!!!*!!!!!!!!!!!!!!!!!!!!!!*!!  !!!!!!  *  !!!!

logo

NTDB id 364827 BPGQ101 RS13020 WP 047946499.1  RQKIVSTITEEAIQMVEETGADQSAIVVAKAGWNPGVVGIVASKLTDTFSRPAIVLGIDEETQMAKGSARSIPGFDLFFH  400
NTDB id 354 BSU 27620 NP 390640.1              RQKMVSKMTDEAIEMVEQQGLDQTAIVVAKAGWNPGVVGIVASKLVDRFYRPAIVLGIDEEKGIAKGSARSIRGFNLFES  400
consensus                                      !!!*!! *!*!!! !!!  ! !!*!!!!!!!!!!!!!!!!!!!!! ! ! !!!!!!!!!!  *!!!!!!!!*!! !! *

logo

NTDB id 364827 BPGQ101 RS13020 WP 047946499.1  LSKCRDILPHFGGHPMAAGMTLRADDVPLLRERLNQYANETLTEEDFIPIQRVDAVCKVDEMTVQAIEEVGLLSPFGMQN  480
NTDB id 354 BSU 27620 NP 390640.1              LSECRDILPHFGGHPMAAGMTLKAEDVPDLRSRLNEIADNTLTEEDFIPVQEVDLVCGVEDITVESIAEMNMLSPFGMLN  480
consensus                                      !! !!!!!!!!!!!!!!!!!!!!*!*!!! !! !!!  !  !!!!!!!!!*! !! !! !***!!  ! !* *!!!!!! !

logo

NTDB id 364827 BPGQ101 RS13020 WP 047946499.1  PKPFIMIEDAQLEDIRTIGANQNHIKMSLKDEDKLLDCVGFHQGKLKEELVPGSQISVVGEVSINEWNNRKKPQLMLKDA  560
NTDB id 354 BSU 27620 NP 390640.1              PKPHVLVENAVLEDVRKIGANKTHVKMTIRNESSQLDCVGFNKGELQEGIVPGSRISIVGEMSINEWNNRKKPQLMIKDA  560
consensus                                      !!!****! ! !!!*! !!!!  !*!!*** !   !!!!!!* ! !  ! *!!!! !!*!!!*!!!!!!!!!!!!!!!*!!!
```

```
logo
NTDB id 364827 BPGQ101 RS13020 WP 047946499.1  RVDEWQLFDLRGKKDWEKKVSTLDPAKTMVFCFDEETKKQSE..LVDIPIHLI.DAENVSTFDVQEKYVIFADVPADEHL   637
NTDB id 354 BSU 27620 NP 390640.1              AVSEWQLFDLRGKRTWEDTVSALPSAKRAIVSFKEDSTTLLQTEDLRREVHVISSKDQAKAFDLDGAYIVLLDPPPSLDM   640
consensus                                       ! !!!!!!!!!!* !!  !! !**!!  * *! !**     ** *  **!*!*  **   !!*   !**  !*!*  **

logo
NTDB id 364827 BPGQ101 RS13020 WP 047946499.1  LKLLLENQQPARIYTVFQRKEDHFMSSFPSRDQFKWFYGFLFKRGSFPIKEQGMELAKHRGWTKDTIIFMTKVFFELGFV   717
NTDB id 354 BSU 27620 NP 390640.1              LARLLEGKAPERIYFIFLNHEDHFLSTFPARDHFKWYYAFLLKRGAFDVKKHGSELAKHKGWSVETINFMTKVFFDLGFV   720
consensus                                      !  !!!   ! !!! *!  *!!!!*!*!! !!*!!!*!*!! !!! !**! *! !!!!!*!!* *!! !!!!!!!*!!!!

logo
NTDB id 364827 BPGQ101 RS13020 WP 047946499.1  KIENGVLSIVRDAPKKDLTASSSYTAKQRLMELDQTLTYSSAKELKEWLNSMMSEVSPVL......   777
NTDB id 354 BSU 27620 NP 390640.1              KIENGVLSVVSGAKKRDLTDSQTYQAKQQLMELDQKLNYSSAEELKEWLNKLMKQDSEAYESTRRT   786
consensus                                      !!!!!!!!*!  !*!*!!! ! *! !!! !!!!!! ! !!!! !!!!!!! *!   !*  ******
```

X non conserved

X similar

X $\geq$ 50% conserved