```
logo

NTDB id 986838 MHI37 RS11735 WP 076338208.1  MLKILKYFNPKNVWFIVISTAFIVFQVWLDLKLPDYLAEITKLVQTEGSSLSEVWKPGAYMMICAIGSLIASFIVVYLVA   80
NTDB id 369 SMU RS04255 WP 002263293.1       MFKIFKRLNAKEWGMVLLSTAFICLAVWMDLKTPEYMSNITTLLQTKGTTASDIMDPGSKMLMFSFGSFFMAVLVGFLAS   80
consensus                                    ! !!! !  !*!    ***!!!!!*  !!*!!! !*!*  !! !*!! !** !**  !!  !***  !!      *! *!

logo

NTDB id 986838 MHI37 RS11735 WP 076338208.1  QSAASLAKRLRSMLFDKVESFSMAEMNQFSTASLITRSTNDITQVQTIVAMGLQVMIKAPILAGWAIVKISSKSWQWTLS  160
NTDB id 369 SMU RS04255 WP 002263293.1       RTAASFTTRLRSDIFNRVMDYSEAEIKKFSIPSLLTRTTNDLTQLQIMIVMGMQVVTRGPIMAVWALTKIWGKSDEWTGA  160
consensus                                     *!!!   !!!! *! *!  *! !!*  !! *!!*!!*!!!*!!*! ** !!*!!* **!!*! !!* !!  !!  !!

logo

NTDB id 986838 MHI37 RS11735 WP 076338208.1  SGVSVALLLLMIAIVILFAMPKFRMIQGLTDQLNRVTREGLHGLRVIRAYNAGPSQEAKFEYANRELTDANLFTSRLMAL  240
NTDB id 369 SMU RS04255 WP 002263293.1       VGVAVLIVFIMLSVLMFVAFPRQRQVQSLTDALNSTTRESLTGVRVVRAYNAEDYQDTKFKRENKNLTKLNLLVYRLMSL  240
consensus                                     !! ! ** *!* ***  ! !* ! *! !!! !!  !!! !*!*!!*!!!!! * !* !!   !* !!  !!   !!! !

logo

NTDB id 986838 MHI37 RS11735 WP 076338208.1  MMPVMSLIMSGLSLAIYWIGAYLINGAD...........TAARLGLFSDMVIFSSYAMQIVMAFMMLSMVFFMLPRASV  308
NTDB id 369 SMU RS04255 WP 002263293.1       MNPVMTVVSSGLTLAIYWIGAYLLNDIKIPMTSVTAAKGAIADRISVFSDMVVFSSYAMQVVVGFMMMVAIFIILPRALV  320
consensus                                    ! !!!*** !!!*!!!!!!!!!!!*!   *********** ! !* *!!!!!*!!!!!!!*!**!!!*  *! *!!!! !

logo

NTDB id 986838 MHI37 RS11735 WP 076338208.1  SAKRVIEVLNTEPSIKDGGSKSTNAAKAGEIEFRNVSFKYADSDEYVLRDISFVARRGETVAFIGSTGSGKSTLLNLIPR  388
NTDB id 369 SMU RS04255 WP 002263293.1       SAKRINEVLALNSSVHFKEYSKADNARKGEVEFHDVSFRYSKNSRAVIEHVSFSAKAGETVAFIGSTGSGKSTLVNLIPR  400
consensus                                    !!!!* !!!   *!**          !* !!*!!* !!!*!       !* **!! !* !!!!!!!!!!!!!!!!!*!!!!!

logo

NTDB id 986838 MHI37 RS11735 WP 076338208.1  FYDVSEGAVLVQGLNVKEYTLRDLHNKLGYVPQKTVLFSGTVTSNVAYGDNGRVEGSAEDVKKAVAIARGQEFVEKLEGG  468
NTDB id 369 SMU RS04255 WP 002263293.1       FYDATEGWIKIDGIKVQDYSHDDLNNKVGYIPQRAVLFSGTIRSNIAFGQSDQAPLDDAKIWEALELAQAKNFVEEKEKG  480
consensus                                    !!! *!! * * !* ! *!** !!*!!*!!*!!* !!!!!!* !!*!*!     *     *  !* *! *  !!!   ! !

logo

NTDB id 986838 MHI37 RS11735 WP 076338208.1  YEGSISQGGSNLSGGQKQRLSIARAVFRKPDIYIFDDSFSALDYKTDRQLRSMLNQETVGATNLIVGQRIGTIKEADLIL  548
NTDB id 369 SMU RS04255 WP 002263293.1       LDTEVAQGGTNFSGGQKQRLAIARALARKPEILIFDDSFSALDYKTDRILRNDLAKKTKEMTKLIVAQRISTIMDADHIL  560
consensus                                     *  * !!!*! !!!!!!!! !!!!* !!!*! !!!!!!!!!!!!!!! !!  !   !   ! !!!*!!! !! *!!*!!
```

```
logo

NTDB id 986838 MHI37 RS11735 WP 076338208.1  VLDEGKIVGRGTHQELLQTCEVYRQIANSQLSKEELEIG.   587
NTDB id 369 SMU RS04255 WP 002263293.1       VLDQGKVVGQGTHKELLANNDIYQEIAYSQLSKEELENGK   600
consensus                                    !!! !!*!! !!! !!!  ***!  !! !!!!!!!!! !*
```

X non conserved

X similar

X $\geq$ 50% conserved