```
logo
NTDB id 615 LCA RS02545 WP 011374200.1      ............MGQQVIACGRQFTAAQLADTQNN...NY..SLPQIKRRPAFLRVKHRLVCQRCQQVVPPQ....TC..   57
NTDB id 32428 BCG9842 RS25690 WP 002083580.1 ................MLAGKQLLLDELSSDLQRELND.LKRKGEVICVQGVKKKNSKYMCQRCGNVDQRLFASFLCRR   62
NTDB id 108 BSU 35470 NP 391427.1           MNVPVEKNSSFSKELQQTLRSRHLLRTELSF..SDEMIEWHIKNGYITAENSISINKRRYRCNRCGQTDQRYFSFYHS..   76
consensus                                                 * ** *****  *!*   * ** **  * * *   *** * * ***!*!!****** *  * *

logo
NTDB id 615 LCA RS02545 WP 011374200.1      LPDGRHYCAQCLLFGRLVEGDWLYTVPECHLFENNIPKLTWEGQLIPHQEKAAQAVVEVVQTQKRHVLTAVTGAGKTEML   137
NTDB id 32428 BCG9842 RS25690 WP 002083580.1 CSKVCTYCRKCITMGRVSECAVLVRGIAERKREKKLNLLQWNGKLSTGQNLAAQGVVEAIKQKESFFIWAVCGAGKTEML   142
NTDB id 108 BSU 35470 NP 391427.1           SGKNKLYCRSCVMMGRVSEEVPLYSWKEENESNWKSIKLTWDGKLSSGQQKAANVLIEAISKKEELLIWAVCGAGKTEML   156
consensus                                     * * !!* !***!!**!    !**  **   * ** *!*!*!*!***!**!!****!**  **  ***!!*!!!!!!!!

logo
NTDB id 615 LCA RS02545 WP 011374200.1      FQGILVALQKGQRVCLAAPRVAVCLELYPRLQAAFATTSIMLMHGEQTEPYRYTQLVICTTHQLLKFYHAFDTVIVDEVD   217
NTDB id 32428 BCG9842 RS25690 WP 002083580.1 FYGINEALQKGERVCIATPRTDVVLELAPRLQEVFPYIKVAALYGGSVDKEKDAVLVVATTHQLLRYYRAFHVMVVDEID   222
NTDB id 108 BSU 35470 NP 391427.1           FPGIESALNQGLRVCIATPRTDVVLELAPRLKAAFQGADISALYGGSDDKGRLSPLMISTTHQLLRYKDAIDVMIIDEVD   236
consensus                                    ! !!  !!**! !!!*!*!!**!*!!!*!!!***!    * ***!** ** * * !** !!!!!!*** !******!!*!

logo
NTDB id 615 LCA RS02545 WP 011374200.1      AFPFVDNPVLATAVEQACKPQCALLYLTATPTPAIKRAIAAKQMTVSELPLRFHGHLLPEPQRHVAFNWRAQLKKGRLPK   297
NTDB id 32428 BCG9842 RS25690 WP 002083580.1 AFPYCADQMLQYAVKQAMKERAARIYLTATPDETWKRKFRKGEQKGVIVSGRYHRHPLPVPLFCWCGNWKKSLIHKRIPR   302
NTDB id 108 BSU 35470 NP 391427.1           AFPYSADQTLQFAVQKARKKNSTLVYLSATPPKELKRKALNGQLHSVRIPARHHRKPLPEPRFVWCGNWKKKLNRNKIPP   316
consensus                                    !!!* ***!**!! *! ! * ***!!*!!!   *!!*   ***  * ***!*!***!!*! * ***!!** ! * **!*

logo
NTDB id 615 LCA RS02545 WP 011374200.1      RLERDCQTYLKT.QQILLFVPQVRLLQPVANRLSTLLPAVRIETLHANDPDQIKKITAFRAQQIQLMVTTTILERGVTFK   376
NTDB id 32428 BCG9842 RS25690 WP 002083580.1 VLLQWLQTYLNKKHPIFLFVPHVRYIEEISLLLKSL..NKRIEGVHAEDPGRKEKVAAFRKGEIPLLVTTTILERGVTVK   380
NTDB id 108 BSU 35470 NP 391427.1           AVKRWIEFHVKEGRPVFLFVPSVSILEKAAACFKGV..HCRTASVHAEDKHRKEKVQQFRDGQLDLLITTTILERGVTVP   394
consensus                                     * ********   ***!!!! !**** **  ****    !****!!*!* ***!* *!! *** !**!!!!!!!!!!**

logo
NTDB id 615 LCA RS02545 WP 011374200.1      NVAVLVLGAEHMVFNEAVLVQIAGRAGRHKDYAQNPVHFYYQDYTRAIKGACRQIKTQNQRGRRLQSTV   445
NTDB id 32428 BCG9842 RS25690 WP 002083580.1 NLQVAVLGAEEEIFSESALVQIAGRAGRSFEAPYGEVIYFHYGKTEAMVRAKKHIQGMNKNAKEQGLID   449
NTDB id 108 BSU 35470 NP 391427.1           KVQTGVLGAESSIFTESALVQIAGRTGRHKEYADGDVIYFHFGKTKSMLDARKHIKEMNELAAKVECTD   463
consensus                                    *****!!!!!  *!*!**!!!!!!!*!!***** **!*******!**** !***!* *!  ****  **
```

X non conserved

X similar

X ≥50% conserved