```
logo

NTDB id 1111 NGFG RS09220 WP 003689814.1     ...MSDLSVLSPFA.VPLAAVLGLLVGSFLNVVIYRVPVMMERGWTVFAKEHLNLP.LTDDESRTFNLMKPDSCCPKCRV   75
NTDB id 1403 DSB67 RS12675 WP 010643256.1    ....MEVFQYYPWLFVVFATIFGLIVGSFLNVVIYRLPKIMELEWRRECAESFPE.YKIEPPKETLTLSVPRSSCQQCGT   75
NTDB id 1170 A1552VC RS11080 WP 000418747.1  ....MELFYFYPWLFPVLATLFGLIVGSFLNVVIYRLPKIMEREWRAECAASFPE.YGITPPEGKLTLSLPRSTCPHCQT   75
NTDB id 229976 MTMN5 RS14360 WP 126812061.1 .MISLDTFLATPWLLYTAVIFFSLCIGSFLNVVILRLPKMMQQDWRCQCEEFLELSDDQRKNDEPITLSKPASTCPSCGH   79
NTDB id 1061 ABD1 RS18470 WP 001152280.1    MQDIIAYFIQNLTALYIAVALVSLCIGSFLNVVIYRTPKMMEQDWQQECQMLLNPE.QPIIDHERLTLNKPASSCPACQQ   79
NTDB id 1080 FDQ49 RS18305 WP 022575844.1   MQDIIAYFIQNLTALYIAVALVSLCIGSFLNVVIYRTPRMMEQDWQQECQMLLNPE.QPIIDHEKLTLSKPASSCPACHQ   79
consensus                                       ** **  **   *   *  ! *!!!!!!!!*!*!**!* *!  **   *          * **!**! !*!* !

logo

NTDB id 1111 NGFG RS09220 WP 003689814.1     PIRAWQNIPIVSYLLLRGKCASCQTKISIRYPLIELLTGVLFGLVAWQYGWSWITLGGLILTAFLISLTFIDADTQYLPD   155
NTDB id 1403 DSB67 RS12675 WP 010643256.1    QIRIRDNIPVISWLLLRGKCHNCQAPINARYPLIELLTAFCSGFIAFHFGFSYFTVALVFFTFVLIAATFIDLDTMLLPD   155
NTDB id 1170 A1552VC RS11080 WP 000418747.1  PIRVIDNIPLLSWLALRGQCSHCKAPISARYPLIELLTALMSLVIATHFPFGVFAVALLFFSYVLIAATFIDFDTLLLPD   155
NTDB id 229976 MTMN5 RS14360 WP 126812061.1 SIRAWENVPVISYLVLGGKCASCKAGISPRYPMIEAITALFSVVTILVMGPSEAALWSLLLVWVLIALTVIDFDTQLLPD   159
NTDB id 1061 ABD1 RS18470 WP 001152280.1    PIRWYQNIPVISWLVLRGKCGHCQHPISIRYPAIELLTMLCSLVVVMVFGPTIQMLFGLVLTWVLIALTFIDFDTQLLPD   159
NTDB id 1080 FDQ49 RS18305 WP 022575844.1   PIRWYQNIPLISWLVLRGKCGHCQHPISIRYPAIELLTMLCSLVVVMVFGPTIQMLFGLVLTWVLIALTFIDFDTQLLPD   159
consensus                                   *!! * !*!**!*!*!*!*!* !* *!* !!!*!!**!** ****   ** *   *  ******!!**!*!!*!!**!!!

logo

NTDB id 1111 NGFG RS09220 WP 003689814.1     SMTLPLIWLGLIFNLDGGF.VPLQSAVLGAVAGYSSLWLLCAVYKLLTGKTGMGNGDFKLIAALGAWLGISALPVLIFVS   234
NTDB id 1403 DSB67 RS12675 WP 010643256.1    QLTLPLMWTGIALALAGISPVSLQDSIIGAMAGYLCLWSVYWLFKLLTGKEGMGYGDFKLLAALGAWLGWQSLPMIILLS   235
NTDB id 1170 A1552VC RS11080 WP 000418747.1  QLTLPLLWGGIALALLGFSPVSLSDAVIGAMAGYLSLWSIYWLFKLLTGKEGMGYGDFKLLAALGAWLGWQQLPVIVLLS   235
NTDB id 229976 MTMN5 RS14360 WP 126812061.1 SMTLPLMWLGLILNYFDVL.TDFSSAFWGAVAGYLSLWSVYWLFKLVTGKEGMGHGDFKLLAALGAWLGWELLPAVILLS   238
NTDB id 1061 ABD1 RS18470 WP 001152280.1    RFTLPLAALGLGINTFNIY.TSPNSAIWGYLIGFLCLWIVYYLFKVITGKEGMGYGDFKLLAALGAWMGPLMLPLIVLLS   238
NTDB id 1080 FDQ49 RS18305 WP 022575844.1   RFTLPLAALGLGINTFNIY.TSPNSAIWGYLIGFLCLWIVYYLFKVITGKEGMGYGDFKLLAALGAWMGPLMLPLIVLLS   238
consensus                                    *!!!!***!****   *   * **** !***!** !! *****!**!!!*!!!*!!!!!*!!!!!!!*!   !!*****!

logo

NTDB id 1111 NGFG RS09220 WP 003689814.1     SLIGLVAAIVMR....VAKGRHFAFGPALTVSGWIIFTANDSVWRAVNWWLTHPVR...   286
NTDB id 1403 DSB67 RS12675 WP 010643256.1    SVVGVIFGLIQLRLQKQGIEKAFPFGPYLAIAGWVSLIWGHQI...LNWYFTSILGV..   289
NTDB id 1170 A1552VC RS11080 WP 000418747.1  SVVGVIFGLIQLRQQKKGIDMAFPFGPYLAIAGWFALLWGDKV...IDWYFTTWVGQPL   291
NTDB id 229976 MTMN5 RS14360 WP 126812061.1 SLVGAVVGISLMVFRKHGREVPIPFGPYLAAAGLLCLWFGAEI...QAAWYAYL.GV..   291
NTDB id 1061 ABD1 RS18470 WP 001152280.1    SLLGAIIGIILLKLRN..DNQPFAFGPYIAIAGWVAFLWGDQI...MKIYLGG......   286
NTDB id 1080 FDQ49 RS18305 WP 022575844.1   SLLGAIIGIILLKLRN..DNQPFAFGPYIAIAGWVAFLWGDQI...MKIYLGG......   286
consensus                                   !**! * ******    *    * !!!*****!**  **** *   *  *
```

X non conserved

X similar

X $\geq$50% conserved