```
logo

NTDB id 115743 SMUFR RS01290 WP 002262737.1  ..MSKEKILQVNNLHVNFHTYAGEVKAIRDVSFYLEKGETLAIVGESGSGKSVTTRTLMGLSAKNAE.IFGDIEFKGHNL   77
NTDB id 361 SMU RS01310 WP 002262737.1       ..MSKEKILQVNNLHVNFHTYAGEVKAIRDVSFYLEKGETLAIVGESGSGKSVTTRTLMGLSAKNAE.IFGDIEFKGHNL   77
NTDB id 478 HSISS4 RS06985 WP 021143811.1    MTENKNVILSARDIVVEFDVRDRVLTAIRGVSLDLVEGEVLALVGESGSGKSVLTKTFTGMLEENGRVASGSIDYRGQDL   80
NTDB id 327 STU RS16115 WP 011226304.1       MTENKNVILSARDIVVEFDVRDRVLTAIRGVSLDLVEGEVLALVGESGSGKSVLTKTFTGMLEENGRVASGSIDYRGKDL   80
NTDB id 295 STER RS06915 WP 011226304.1      MTENKNVILSARDIVVEFDVRDRVLTAIRGVSLDLVEGEVLALVGESGSGKSVLTKTFTGMLEENGRVASGSIDYRGKDL   80
consensus                                    ****!**!!******!*!********!!!*!!**!**!!*!!*!!!!!!!!!!*!*!**!****!*****!*!***!  *!

logo

NTDB id 115743 SMUFR RS01290 WP 002262737.1  NDLK.EEDWVHIRGNDISMIFQDPMTSLDPTMRIGLQIAEPIIKHEKVTKKEALKRALDMMEKVGIPNAQEHINDYPHQW  156
NTDB id 361 SMU RS01310 WP 002262737.1       NDLK.EEDWVHIRGNDISMIFQDPMTSLDPTMRIGLQIAEPIIKHEKVTKKEALKRALDMMEKVGIPNAQEHINDYPHQW  156
NTDB id 478 HSISS4 RS06985 WP 021143811.1    TKLKSHQDWAHIRGAKIATIFQDPMTSLDPIKTIGSQIVEVIVKHQGKSAKEAKKMAIDYMDKVGIPDAEKRFNEYPFQY  160
NTDB id 327 STU RS16115 WP 011226304.1       TKFKSHQDWAAIRGAKIATIFQDPMTSLNPIKTIGSQIIEVIVKHQGKTAKEAKKMAIDYMDKVGIPDAEKRFNEYPFQY  160
NTDB id 295 STER RS06915 WP 011226304.1      TKFKSHQDWAAIRGAKIATIFQDPMTSLNPIKTIGSQIIEVIVKHQGKTAKEAKKMAIDYMDKVGIPDAEKRFNEYPFQY  160
consensus                                    ***!***!!**!!!**!**!!!!!!!!!!*!***!!*!!*!*!!*****!!!*!*!*!*!*!!!!!!*!****!*!!*!*

logo

NTDB id 115743 SMUFR RS01290 WP 002262737.1  SGGMRQRAVIAIALATNPEILVADEPTTALDVTIQAQILHLMKEIQKNTDSSIIFITHDLGVVAGMADRVAVMYAGKIVE  236
NTDB id 361 SMU RS01310 WP 002262737.1       SGGMRQRAVIAIALATNPEILVADEPTTALDVTIQAQILHLMKEIQKNTDSSIIFITHDLGVVAGMADRVAVMYAGKIVE  236
NTDB id 478 HSISS4 RS06985 WP 021143811.1    SGGMRQRIVIAIALACRPDVLICDEPTTALDVTIQAQIIDLLKSLKEEYGFSVIFITHDLGVVASIADKVAVMYAGEIIE  240
NTDB id 327 STU RS16115 WP 011226304.1       SGGMRQRIVIAIALACRPDVLICDEPTTALDVTIQAQIIDLLKSLKEEYGFSVIFITHDLGVVASIADKVAVMYAGEIIE  240
NTDB id 295 STER RS06915 WP 011226304.1      SGGMRQRIVIAIALACRPDVLICDEPTTALDVTIQAQIIDLLKSLKEEYGFSVIFITHDLGVVASIADKVAVMYAGEIIE  240
consensus                                    !!!!!!!*!!!!!!!**!**!**!!!!!!!!!!!!!!!**!*!********!*!!!!!!!!!!!!**!!*!!!!!!!*!*!

logo

NTDB id 115743 SMUFR RS01290 WP 002262737.1  YGTVDEVFYNPQHPYTWGLLNSMPTTNTASGSLHSIPGTPPDLLQPPQGDAFAPRNEFALDIDLKEEPPFFKVSDSHYAA  316
NTDB id 361 SMU RS01310 WP 002262737.1       YGTVDEVFYNPQHPYTWGLLNSMPTTNTASGSLHSIPGTPPDLLQPPQGDAFAPRNEFALDIDLKEEPPFFKVSDSHYAA  316
NTDB id 478 HSISS4 RS06985 WP 021143811.1    YATVEEIFYEPCHPYTWSLLSSLPQLADDKGELFSIPGTPPSLYTPVVGDAFALRSDYAMQIDFEEKAPQFQVSDTHWAK  320
NTDB id 327 STU RS16115 WP 011226304.1       YATVEEIFYEPCHPYTWSLLSSLPQLADDNGKLFSIPGTPPSLYTPVVGDAFALRSDYALQIDFEEKAPQFQVSDTHWAK  320
NTDB id 295 STER RS06915 WP 011226304.1      YATVEEIFYEPCHPYTWSLLSSLPQLADDNGKLFSIPGTPPSLYTPVVGDAFALRSDYALQIDFEEKAPQFQVSDTHWAK  320
consensus                                    !*!!*!*!!*!*!!!!!!*!!*!*!***** ! !*!!!!!!!!*!**!**!!!!!*!***!**!!**!**!*!*!!!*!*!*

logo

NTDB id 115743 SMUFR RS01290 WP 002262737.1  TWLLDDRAPKITPPERILQRWEKWKSLQGEKHND.......  350
NTDB id 361 SMU RS01310 WP 002262737.1       TWLLDDRAPKITPPERILQRWEKWKSLQGEKHND.......  350
NTDB id 478 HSISS4 RS06985 WP 021143811.1    TWLLHEDAPKVEKPAVIQNLHEKIRANMGFAHLGDEEEGNA  361
NTDB id 327 STU RS16115 WP 011226304.1       TWLLHEDAPKVDKPAVIQNLHEKILANMGFAHLGDEEEGNA  361
NTDB id 295 STER RS06915 WP 011226304.1      TWLLHEDAPKVDKPAVIQNLHEKILANMGFAHLGDEEEGNA  361
consensus                                    !!!!***!!!***!**!****!!*****!**!*********
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X non conserved
X similar
X $\geq$ 50% conserved