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logo
NTDB id 67629 IOMTU133 RS28525 WP 003095835.1  MNSGLSRLGIALLAA.MFAPALLAADLEKLDVAALPGDRVELKLQFDEPVAAPRGYTIEQPARIALDLPGVQNKLGTKNR   79
NTDB id 1193 PAKAF RS26665 WP 003161249.1      MNSGLSRLGIALLAA.MFAPALLAADLEKLDVAALPGDRVELKLQFDEPVAAPRGYTIEQPARIALDLPGVQNKLGTKNR   79
NTDB id 1009 ACIAD RS15175 WP 004923730.1      MKQIIRQFSIGTVAYAIMQVASAQVAITNVVPMNIPGQGTEIRVMFNGLPPQPQAYQLEQPARLILDFDKAGQKLAKSLI   80
NTDB id 1039 HON27 RS01460 WP 031993779.1      MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPPQPQAYQLENPSRLILDFDKAQQGLKQSKI   80
NTDB id 1052 ABD1 RS15850 WP 001017033.1       MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPPQPQAYQLENPSRLILDFDKAQQGLKQSKI   80
consensus                                      !* ******** *! **** !**** **********!***!****!******!**!**!*!*!**!!*******!* * *

logo
NTDB id 67629 IOMTU133 RS28525 WP 003095835.1  ELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNNLFVVVGNSPAGASVASAAPVKASPAPASYAQPIKPKPYVPA  159
NTDB id 1193 PAKAF RS26665 WP 003161249.1      ELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNNLFVVVGNSPAGASVASTAPVKASPAPASYAQPIKPKPYVPA  159
NTDB id 1009 ACIAD RS15175 WP 004923730.1      PVTTNEASSIDVSSDDKRARVVVNLKDAGAFTTRVEGNVFILKINNIQSTAT.....PV.....A..TSA.......PAP  141
NTDB id 1039 HON27 RS01460 WP 031993779.1      SVATNEASSVDVTSDDQRSRLTVNLKDTGAFTTRVEGNTFILKINSAQTSNK.....PL.....P..VVS........AQ  140
NTDB id 1052 ABD1 RS15850 WP 001017033.1       SVATNEASSVDVTSDDQRSRLTVNLKDAGAFTTRVEGNTFILKINSAQTSNK.....PL.....P..VVS........AQ  140
consensus                                       *******!**!**** !*!***!!** ***!!!!!!! ******* *****     !*     *          *

logo
NTDB id 67629 IOMTU133 RS28525 WP 003095835.1  GRAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASAQSDRTSIT  239
NTDB id 1193 PAKAF RS26665 WP 003161249.1      GRAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASAQSDRTSIT  239
NTDB id 1009 ACIAD RS15175 WP 004923730.1      QQGIGNIGFQRGAQGEGLVVIDLQGTNTPVDVQQQGSKVVVRFPGIKIPTHLARRLNTTDFATPVASIDSYNDGSNGVIS  221
NTDB id 1039 HON27 RS01460 WP 031993779.1      PQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVGVIT  220
NTDB id 1052 ABD1 RS15850 WP 001017033.1       PQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVGVIT  220
consensus                                       *** !!*!!!! *!!!*!!*!! ******!*!*!!*!***** ****!**!**!!** !!!!!! *******   **!*

logo
NTDB id 67629 IOMTU133 RS28525 WP 003095835.1  IEPSGLYDYLVYQTDNRLTVSIKPMTTEDAERRKKDNFAYTGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDTVQGNIT  319
NTDB id 1193 PAKAF RS26665 WP 003161249.1      IEPSGLYDYLVYQTDNRLTVSIKPMTTEDAERRKKDNFAYTGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDTVQGNIT  319
NTDB id 1009 ACIAD RS15175 WP 004923730.1      IQSTGSYEYMAYQAENKLTISLKRPQDNV.RLNSKNNQNYTGKKISLDFQDIEVRRVLQLLADFTNINMVTADSVQGNIT  300
NTDB id 1039 HON27 RS01460 WP 031993779.1      IQSSGSYEYMAYQAENKLTISLKRPQDKN.VTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQGNIT  299
NTDB id 1052 ABD1 RS15850 WP 001017033.1       IQSSGSYEYMAYQAENKLTISLKRPQDKN.VTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQGNIT  299
consensus                                      !***!*!*!**!!**!*!!*!*!****       * * *!*! !*!!*!!!!*!!*!!!!*!!!! *!*!**!*!!!!!!

logo
NTDB id 67629 IOMTU133 RS28525 WP 003095835.1  LRLQNVPWDQALDLVLKTKGLDKRKLGNVLLVAPADEIAARERQELEAQKQIAELAPLRRELIQVNYAKAADIAKLFQSV  399
NTDB id 1193 PAKAF RS26665 WP 003161249.1      LRLQNVPWDQALDLVLKTKGLDKRKLGNVLLVAPADEIAARERQELEAQKQIAELAPLRRELIQVNYAKAADIAKLFQSV  399
NTDB id 1009 ACIAD RS15175 WP 004923730.1      LHLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVSELIKSEEDEAKAIAQSTKLAPLQTEYILLKYAKAADIEKLITQG  380
NTDB id 1039 HON27 RS01460 WP 031993779.1      LRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIMGLITQG  379
NTDB id 1052 ABD1 RS15850 WP 001017033.1       LRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIMGLITQG  379
consensus                                      !*!**!!!!!!!!**!!!!*!!!!**!!!***!!* !*** !**!**!**!* *!!!!**!*!***!!!!*!! *!****
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logo

NTDB id 67629 IOMTU133 RS28525 WP 003095835.1  TSDGGQEG.........................KEGGRGSITVDDRTNSIIAYQPQERLDELRRIVSQLDIPVRQVMIE   453
NTDB id 1193 PAKAF RS26665 WP 003161249.1      TSDGGQEG.........................KEGGRGSITVDDRTNSIIAYQPQERLDELRRIVSQLDIPVRQVMIE   453
NTDB id 1009 ACIAD RS15175 WP 004923730.1      RNSGTSNSN........TNGSATVEPLGDSVGTLLSPRGTISLDPRTNTLIINDTSQKIDQIRKMIDLLDIPVKQVMIE   451
NTDB id 1039 HON27 RS01460 WP 031993779.1      SNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQVKQVMVE   459
NTDB id 1052 ABD1 RS15850 WP 001017033.1       SNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQVKQVMVE   459
consensus                                      ** *              **    ** **  *******!!*!**!*!!!**!**** ***!**!*****!!**!*!!!*!

logo

NTDB id 67629 IOMTU133 RS28525 WP 003095835.1  ARIVEANVGYDKSLGVRWGGAYHKGNWNGYGKDG....N.IGIKDEDGMNCGPIAGNCTFPTTGTSKSPSPFVDIGAKDA   528
NTDB id 1193 PAKAF RS26665 WP 003161249.1      ARIVEANVGYDKSLGVRWGGAYHKGNWSGYGKDG....N.IGIKDEDGMNCGPIAGSCTFPTTGTSKSPSPFVDLGAKDA   528
NTDB id 1009 ACIAD RS15175 WP 004923730.1      ARIVRATTSFSKEMGVKWGILSQGINQNSNLLVGGSETTLWNLRNPD...SN.....GTYTI...ERPDNLNVDLGVTTT   520
NTDB id 1039 HON27 RS01460 WP 031993779.1      ARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPK...KDETTGGYKYTI...ERPDNLNVDLGVSNP   533
NTDB id 1052 ABD1 RS15850 WP 001017033.1       ARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPK...KDETTGGYKYTI...ERPDNLNVDLGVSNP   533
consensus                                      !!!!*!*****!**!!*!!********* ****!************        *  ****   *******!!*!**

logo

NTDB id 67629 IOMTU133 RS28525 WP 003095835.1  .TSGIGIGFI.TDNIILDLQLSAMEKTGNGEIVSQPKVVTSDKETAKILKGQEVPYQEASSSGA...TSTSFKEAALSLE   603
NTDB id 1193 PAKAF RS26665 WP 003161249.1      .TSGIGIGFI.TDNIILDLQLSAMEKTGNGEIVSQPKVVTSDKETAKILKGSEVPYQEASSSGA...TSTSFKEAALSLE   603
NTDB id 1009 ACIAD RS15175 WP 004923730.1      GASSIAFGLISLSDFMLDLELSALQADGYGEVISTPKVMSADKQKAKVATGVEVPYQSTTNSAAGSTATTSFKEALLSLE   600
NTDB id 1039 HON27 RS01460 WP 031993779.1      .AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSFKDALLSLN   612
NTDB id 1052 ABD1 RS15850 WP 001017033.1       .AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSFKDALLSLN   612
consensus                                       ***!**!*!******!!!*!!!****!*!!**!*!!!***!!**!!***!**!!!!****!*!*****!!!!*!*!!!*

logo

NTDB id 67629 IOMTU133 RS28525 WP 003095835.1  VTPQITPDNRIIVEVKVTKDAPDFDRALNGVPPINKNEVNAKILVNDGETIVIGGVFSNTQSKSVDKVPFLGDLPYLGRL   683
NTDB id 1193 PAKAF RS26665 WP 003161249.1      VTPQITPDNRIIVEVKVTKDAPDYQNMLNGVPPINKNEVNAKILVNDGETIVIGGVFSNEQSKSVEKVPFLGELPYLGRL   683
NTDB id 1009 ACIAD RS15175 WP 004923730.1      VTPNITPDGKILMELNIANDSIN.SYAQNGEAILNKNTINTNVLVNNGETVVLGGVFEQTTNNAVTKVPFLGDLPYVGRL   679
NTDB id 1039 HON27 RS01460 WP 031993779.1      VTPSITPDGKIQMKLDISKDSVA.GAAPNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFGDIPVVGRL   691
NTDB id 1052 ABD1 RS15850 WP 001017033.1       VTPSITPDGKIQMKLDISKDSVA.GAAPNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFGDIPVVGRL   691
consensus                                      !!!*!!!!**!**** ***!**    * !!* **!!! *!***!!**!!!***!!!!**** ****!!!!*!**!**!!!

logo

NTDB id 67629 IOMTU133 RS28525 WP 003095835.1  FRRDTVSDVKNELLVFLTPRIMNNQAIAIGR   714
NTDB id 1193 PAKAF RS26665 WP 003161249.1      FRRDTVTDRKNELLVFLTPRIMNNQAIAIGR   714
NTDB id 1009 ACIAD RS15175 WP 004923730.1      FKKTAKSEAKNELLIFVTPRIVNDTIVGNH.   709
NTDB id 1039 HON27 RS01460 WP 031993779.1      FRKDVKSDDKQELLIFVTPRIVNDTLARNH.   721
NTDB id 1052 ABD1 RS15850 WP 001017033.1       FRKDVKSDDKQELLIFVTPRIVNDTLARNH.   721
consensus                                      !*** *** !*!!!*!*!!!!*!*******
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X non conserved
X similar
X $\geq$50% conserved