```
logo
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
NTDB id 993857 AAEQ75 RS11120 WP 343352368.1  MNNSFSRLGLSVAA.LLMSPALLAASLNSVDVAALPGDRVELKLTFDEPIAAPRGYTIEQPARIALDLPGVSNRLGSKNR   79
NTDB id 1193 PAKAF RS26665 WP 003161249.1     MNSGLSRLGIALLA.AMFAPALLAADLEKLDVAALPGDRVELKLQFDEPVAAPRGYTIEQPARIALDLPGVQNKLGTKNR   79
consensus                                      !* ******* *! **** !***************!***!****!******!**!**!*!*!**!!*******!* * *

logo
NTDB id 1009 ACIAD RS15175 WP 004923730.1      PVTTNEASSIDVSSDDKRARVVVNLKDAGAFTTRVEGNVFILKINNIQSTATPVAT.....................SAP  139
NTDB id 1039 HON27 RS01460 WP 031993779.1      SVATNEASSVDVTSDDQRSRLTVNLKDTGAFTTRVEGNTFILKINSAQTSNKPLPV......................VS.  138
NTDB id 1052 ABD1 RS15850 WP 001017033.1       SVATNEASSVDVTSDDQRSRLTVNLKDAGAFTTRVEGNTFILKINSAQTSNKPLPV......................VS.  138
NTDB id 993857 AAEQ75 RS11120 WP 343352368.1  EIGMGNARSLTVVEAKDRTRLIVNLTNLTPYTTRVDGNNLFVVVGDGPVSAVSTPAVASPVAVAPAPA........ARAV  151
NTDB id 1193 PAKAF RS26665 WP 003161249.1     ELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNNLFVVVGNSPAGASVAST..APVKASPAPASYAQPIKPKPYV  157
consensus                                       ******!**!**** !*!***!!** ***!!!!*!! ****** ***** ***

logo
NTDB id 1009 ACIAD RS15175 WP 004923730.1      APQQGIGNIGFQRGAQGEGLVVIDLQGTNTPVDVQQQGSKVVVRFPGIKIPTHLARRLNTTDFATPVASIDSYNDGSNGV  219
NTDB id 1039 HON27 RS01460 WP 031993779.1      AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVGV  218
NTDB id 1052 ABD1 RS15850 WP 001017033.1       AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVGV  218
NTDB id 993857 AAEQ75 RS11120 WP 343352368.1  AGVRAVSDIDFQRGEQGEGNIVISLSDPKISPDVQEQGGNIRIDFPKTQLPESLRVRLDVKDFATPVQFVNASASADRAS  231
NTDB id 1193 PAKAF RS26665 WP 003161249.1     PAGRAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASAQSDRTS  237
consensus                                      *  *****!*!!!! *!!!**!**! ******!*!*!!******* ****!**!**!!** !!!!!! *******   **

logo
NTDB id 1009 ACIAD RS15175 WP 004923730.1      ISIQSTGSYEYMAYQAENKLTISLKRPQDNV.RLNSKNNQNYTGKKISLDFQDIEVRRVLQLLADFTNINMVTADSVQGN  298
NTDB id 1039 HON27 RS01460 WP 031993779.1      ITIQSSGSYEYMAYQAENKLTISLKRPQDKN.VTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQGN  297
NTDB id 1052 ABD1 RS15850 WP 001017033.1       ITIQSSGSYEYMAYQAENKLTISLKRPQDKN.VTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQGN  297
NTDB id 993857 AAEQ75 RS11120 WP 343352368.1  IVVEPTGLYDYLVFQADNKLTISVKPLTEEDAVRRNADRFTYTGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDTVRGN  311
NTDB id 1193 PAKAF RS26665 WP 003161249.1     ITIEPSGLYDYLVYQTDNRLTVSIKPMTTEDAERRKKDNFAYTGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDTVQGN  317
consensus                                      !*****!*!*!***!**!*!!*!*!**** *       *!*! !*!!*!!!!*!!*!!!!*!!!! *!*!**!*!*!!

logo
NTDB id 1009 ACIAD RS15175 WP 004923730.1      ITLHLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVSELIKSEEDEAKAIAQSTKLAPLQTEYILLKYAKAADIEKLIT  378
NTDB id 1039 HON27 RS01460 WP 031993779.1      ITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIMGLIT  377
NTDB id 1052 ABD1 RS15850 WP 001017033.1       ITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIMGLIT  377
NTDB id 993857 AAEQ75 RS11120 WP 343352368.1  ITLRLQNVPWDQALDLVLKTKGLDQRKVGNVLMVAPADEIAAREQQELAVQKQVAELAPLRKDIIQLNYAKASDIAKLYE  391
NTDB id 1193 PAKAF RS26665 WP 003161249.1     ITLRLQNVPWDQALDLVLKTKGLDKRKLGNVLLVAPADEIAAREQELEAQKQIAELAPLRRELIQVNYAKAADIAKLFQ  397
consensus                                      !!!*!**!!!!!!!!**!!!!*!!*!**!!!****!* !*** !**!*****!* *!!!!****!***!!!!*!! *!**
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logo
NTDB id 1009 ACIAD RS15175 WP 004923730.1      QGRNSGTSNSN.........TNGSATVEPLGDSVGTLLSPRGTISLDPRTNTLIINDTSQKIDQIRKMIDLLDIPVKQVM   449
NTDB id 1039 HON27 RS01460 WP 031993779.1      QGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQVKQVM   457
NTDB id 1052 ABD1 RS15850 WP 001017033.1       QGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQVKQVM   457
NTDB id 993857 AAEQ75 RS11120 WP 343352368.1  EGSSG...TL.........................KDDMRGSVIFDDRTNNLIVTLTQERIDELRRIVTQLDIPVRQVM   442
NTDB id 1193 PAKAF RS26665 WP 003161249.1     SVTSDGGQEG.........................KEGGRGSITVDDRTNSIIAYQPQERLDELRRIVSQLDIPVRQVM   451
consensus                                     ****              **    ** **  ******!!*** !*!!!**!**** ***!**!*****!!**!*!!!
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logo
NTDB id 1009 ACIAD RS15175 WP 004923730.1      IEARIVRATTSFSKEMGVKWGILSQGINQNSNLLVGGSETTLWNLRNPDSN.................GTYT..IER.PD   509
NTDB id 1039 HON27 RS01460 WP 031993779.1      VEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPKKDET............TGGYKYT..IER.PD   522
NTDB id 1052 ABD1 RS15850 WP 001017033.1       VEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPKKDET............TGGYKYT..IER.PD   522
NTDB id 993857 AAEQ75 RS11120 WP 343352368.1  IEARIVEANVDYDKSLGVRWGGNLSS..............GNWSARGKNGNLTLGEETDGVQ...........QIDIPFN   497
NTDB id 1193 PAKAF RS26665 WP 003161249.1     IEARIVEANVGYDKSLGVRWGGAYHK..............GNWSGYGKDGNIGIKDEDGMNCGPIAGSCTFPTTGTSKSP   517
consensus                                     *!!!!!*!*****!**!!*!!****** ** ***********!*** *  * *             *   **  *** **
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logo
NTDB id 1009 ACIAD RS15175 WP 004923730.1      NLNVDLGVTTTGASSIAFGLISLSDFMLDLELSALQADGYGEVISTPKVMSADKQKAKVATGVEVPYQSTTNSAAGSTAT   589
NTDB id 1039 HON27 RS01460 WP 031993779.1      NLNVDLGVSNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTAT   601
NTDB id 1052 ABD1 RS15850 WP 001017033.1       NLNVDLGVSNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTAT   601
NTDB id 993857 AAEQ75 RS11120 WP 343352368.1  TPFVDLGASGS.TSGIGIGFIT.NNTVLDLQLSAMEKSGSGEVVSQPKVVTSDKETAKILKGTEVPYQEASSSGA...TS   572
NTDB id 1193 PAKAF RS26665 WP 003161249.1     SPFVDLGAKDA.TSGIGIGFIT.DNIILDLQLSAMEKTGNGEIVSQPKVVTSDKETAKILKGSEVPYQEASSSGA...TS   592
consensus                                     ***!!!!**   ***!**!*!*****!!!*!!!****!*!!**!*!!***!!**!!***!  *!!!!****!*!*****
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logo
NTDB id 1009 ACIAD RS15175 WP 004923730.1      TSFKEALLSLEVTPNITPDGKILMELNIANDSIN...SYAQNGEAILNKNTINTNVLVNNGETVVLGGVFEQTTNNAVTK   666
NTDB id 1039 HON27 RS01460 WP 031993779.1      TSFKDALLSLNVTPSITPDGKIQMKLDISKDSVA...GAAPNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTK   678
NTDB id 1052 ABD1 RS15850 WP 001017033.1       TSFKDALLSLNVTPSITPDGKIQMKLDISKDSVA...GAAPNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTK   678
NTDB id 993857 AAEQ75 RS11120 WP 343352368.1  TSFKEAALSLEVTPQITPDNRVLMEVKVTKDAPDFSVASSTGGIPAISKNEVNAKVLVADGETIVIGGVYSNTQSKSVDK   652
NTDB id 1193 PAKAF RS26665 WP 003161249.1     TSFKEAALSLEVTPQITPDNRIIVEVKVTKDAPDYQN..MLNGVPPINKNEVNAKILVNDGETIVIGGVFSNEQSKSVEK   670
consensus                                     !!!!*!*!!!*!!!*!!!!******* ***!**    * * *!* ***!! *!***!! *!!!***!!!***** ****!
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logo
NTDB id 1009 ACIAD RS15175 WP 004923730.1      VPFLGDLPYVGRLFKKTAKSEAKNELLIFVTPRIVNDTIVGNH.   709
NTDB id 1039 HON27 RS01460 WP 031993779.1      VPFFGDIPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH.   721
NTDB id 1052 ABD1 RS15850 WP 001017033.1       VPFFGDIPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH.   721
NTDB id 993857 AAEQ75 RS11120 WP 343352368.1  VPFLGDLPFIGRVFKRDLVQDRKAELLVFLTPRIMNNQAIAVNR   696
NTDB id 1193 PAKAF RS26665 WP 003161249.1     VPFLGELPYLGRLFRRDTVTDRKNELLVFLTPRIMNNQAIAIGR   714
consensus                                     !!!*!**!**!!*!*******  !*!!!*!*!!!!*!*******
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X non conserved
X similar
X $\geq$ 50% conserved