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logo
NTDB id 1257 GC085 RS04855 WP 163621000.1      MRKIIAILILI..SASLSLAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ   78
NTDB id 1284 ACE17W RS12370 WP 010946666.1     MRKIIAILILI..SASLSMAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ   78
NTDB id 1009 ACIAD RS15175 WP 004923730.1      MKQIIRQFSIGTVAYAIMQVASAQVAITNVVPMNIPGQGTEIRVMFNGLPP.QPQAYQLEQPARLILDFDKAGQKLAK..   77
NTDB id 1052 ABD1 RS15850 WP 001017033.1       MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGLKQ..   77
NTDB id 1039 HON27 RS01460 WP 031993779.1      MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGLKQ..   77
NTDB id 1027147 AB4P92 RS13100 WP 395599503.1 MNRIFSTLGFSLWI.ALLSPMVQAANLKALDVAALPGDRVELKLSFDGPPP.QPKGYTTESPARIALDLPGVASQLAS..   76
NTDB id 1193 PAKAF RS26665 WP 003161249.1     MNSGLSRLGIALLA.AMFAPALLAADLEKLDVAALPGDRVELKLQFDEPVA.APRGYTIEQPARIALDLPGVQNKLGT..   76
consensus                                      !* **  * ** ** *** ***   **  * ** ********** ! **** *! ** ***! !**!!*    * * *

logo
NTDB id 1257 GC085 RS04855 WP 163621000.1      KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSVYSLVLNGKSNDLFENSK.............EVFITNQV  145
NTDB id 1284 ACE17W RS12370 WP 010946666.1     KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSIYSLVLNGKSNDLFENSK.............EVFITNQV  145
NTDB id 1009 ACIAD RS15175 WP 004923730.1      SLIPVTTNEASSIDVSSDDKRARVVVNLKDAGAFTTRVEGNVFILKINNIQSTAT.....PVAT...............SA  138
NTDB id 1052 ABD1 RS15850 WP 001017033.1       SKISVATNEASSVDVTSDDQRSRLTVNLKDAGAFTTRVEGNTFILKINSAQTSNK.....PLPV...............VS  138
NTDB id 1039 HON27 RS01460 WP 031993779.1      SKISVATNEASSVDVTSDDQRSRLTVNLKDTGAFTTRVEGNTFILKINSAQTSNK.....PLPV...............VS  138
NTDB id 1027147 AB4P92 RS13100 WP 395599503.1 KNLDLGSGNARTATVVEAKDRTRLIVSLTQLAPYDTRVEGNYLFVVVGQGAPAKA.....PRPAVAAPRASTPAAPAKAF  151
NTDB id 1193 PAKAF RS26665 WP 003161249.1     KNRELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNNLFVVVGNSPAGASVASTAPVKASPAPASYAQPIKPKPY  156
consensus                                      * *** ** * ** **   *!*!****!   * ******!* * ****          **

logo
NTDB id 1257 GC085 RS04855 WP 163621000.1      VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV  225
NTDB id 1284 ACE17W RS12370 WP 010946666.1     VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV  225
NTDB id 1009 ACIAD RS15175 WP 004923730.1      PAPQQGIGNIGFQRGAQGEGLVVIDLQGINTPVDVQQQGSKVVVRFPGIKIPTHLARRLNTTDFATPVASIDSYNDGSNG  218
NTDB id 1052 ABD1 RS15850 WP 001017033.1       .AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVG  217
NTDB id 1039 HON27 RS01460 WP 031993779.1      .AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVG  217
NTDB id 1027147 AB4P92 RS13100 WP 395599503.1 VAKPRAIRGVDFQRGTAGEGNVVIDLSDPTIAPDIQEHDGKIILSFARTQLPEKLRVRLDVKDFATPVQFVNAGVTGDRT  231
NTDB id 1193 PAKAF RS26665 WP 003161249.1     VPAGRAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASAQSDRT  236
consensus                                      **   ******!***  **! !**!**** ***!***** **** ** ***!  ! *!*** !!**!!* * * *** *

logo
NTDB id 1257 GC085 RS04855 WP 163621000.1      RMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKVQG  305
NTDB id 1284 ACE17W RS12370 WP 010946666.1     RMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKVQG  305
NTDB id 1009 ACIAD RS15175 WP 004923730.1      VISIQSTGSYEYMAYQAENKLTISLKRPQD.NVRLNSKNNQNYTGKKISLDFQDIEVRRVLQLLADFTNINMVTADSVQG  297
NTDB id 1052 ABD1 RS15850 WP 001017033.1       VITIQSSGSYEYMAYQAENKLTISLKRPQD.KNVTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQG  296
NTDB id 1039 HON27 RS01460 WP 031993779.1      VITIQSSGSYEYMAYQAENKLTISLKRPQD.KNVTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQG  296
NTDB id 1027147 AB4P92 RS13100 WP 395599503.1 VITVEPSGTFDYSTFQTDNKLTVSIRPMTVDDLQKRNADRQAYVGEKLSLNFQDIDVRSVLQLIADFTNLNLVASDTVQG  311
NTDB id 1193 PAKAF RS26665 WP 003161249.1     SITIEPSGLYDYLVYQTDNRLTVSIKPMTTEDAERRKKDNFAYTGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDTVQG  316
consensus                                      **** **!***** *!  ************ ***      * * **! **!!*!!*!**! !!!!*!!!!**!*!**!*!!!
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logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1       DITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIRSDLIQINYAKAADIAVLI   385
NTDB id 1284 ACE17W RS12370 WP 010946666.1      DITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIRSDLIQINYAKAADIAVLI   385
NTDB id 1009 ACIAD RS15175 WP 004923730.1       NITLHLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVSELIKSEEDEAKAIAQSTKLAPLQTEYILLKYAKAADIEKLI   377
NTDB id 1052 ABD1 RS15850 WP 001017033.1        NITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIMGLI   376
NTDB id 1039 HON27 RS01460 WP 031993779.1       NITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIMGLI   376
NTDB id 1027147 AB4P92 RS13100 WP 395599503.1  GITLRLQNVPWDQALDLVLKTKGLDKRKIGNVLLVAPADEIAARERQELESQKQIAELAPLRRELLQVNYAKAADIAKLF   391
NTDB id 1193 PAKAF RS26665 WP 003161249.1      NITLRLQNVPWDQALDLVLKTKGLDKRKLGNVLLVAPADEIAARERQELEAQKQIAELAPLRRELIQVNYAKAADIAKLF   396
consensus                                       *!!!*!***!!!!!!!**!*!**!!!!* !!!***** *** * !******* ** *!*!*********!!!!*!!* !*

logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1       KDKQ...............................NSLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVKQV   434
NTDB id 1284 ACE17W RS12370 WP 010946666.1      KDKQ...............................NSLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVKQV   434
NTDB id 1009 ACIAD RS15175 WP 004923730.1       TQGRNSGTSNSN.........TNGSATVEPLGDSVGTLLSPRGTISLDPRTNTLIINDTSQKIDQIRKMIDLLDIPVKQV   448
NTDB id 1052 ABD1 RS15850 WP 001017033.1        TQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQVKQV   456
NTDB id 1039 HON27 RS01460 WP 031993779.1       TQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQVKQV   456
NTDB id 1027147 AB4P92 RS13100 WP 395599503.1  QSVTSAE...........................AKIDERGSITVDERTNNIIAYQTQDRLDELRRIVAQLDIPVRQV   442
NTDB id 1193 PAKAF RS26665 WP 003161249.1      QSVTSDGGQ..........................EGKEGGRGSITVDDRTNSIIAYQPQERLDELRRIVSQLDIPVRQV   450
consensus                                         *                                **** !!*!**!*!!!******* *****!*** *!!**!*!!

logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1       LIEARIVEVTKDFSQDIGIRWGVSRPTH..LSGTLEGANEL....ARGTAPAN......VVPLER..RLNLDLAAVPLTG   500
NTDB id 1284 ACE17W RS12370 WP 010946666.1      LIEARIVEVTKDFSQDIGIRWGVSRPTH..LSGTLEGANEL....ARGTAPAN......VVPLER..RLNLDLAAAPLTG   500
NTDB id 1009 ACIAD RS15175 WP 004923730.1       MIEARIVRATTSFSKEMGVKWGILSQGINQNSNLLVGGSETTLWNLRNPD.SN.....GTYTIER.....PDNLNVDLGV   517
NTDB id 1052 ABD1 RS15850 WP 001017033.1        MVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPK.KDETTGGYKYTIER.....PDNLNVDLGV   530
NTDB id 1039 HON27 RS01460 WP 031993779.1       MVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPK.KDETTGGYKYTIER.....PDNLNVDLGV   530
NTDB id 1027147 AB4P92 RS13100 WP 395599503.1  MIEARIVEANVDYDKSLGVRWGGSIQNKGNWNASGVNGS....................STTIGTPGSTSTNSPFVDMGT   502
NTDB id 1193 PAKAF RS26665 WP 003161249.1      MIEARIVEANVGYDKSLGVRWGGAY.HKGNWSGYGKDGNIG....IKDEDGMNCGPIAGSCTFPTTGTSKSPSPFVDLGA   525
consensus                                       **!!!!!***  *****!**!!*  *   * ** ******     **     *        ****      *   ****

logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1       ATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGA...TAVAFKKAVL   576
NTDB id 1284 ACE17W RS12370 WP 010946666.1      ATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGA...TAVAFKKAVL   576
NTDB id 1009 ACIAD RS15175 WP 004923730.1       TTTGASSIAFGLISLSDFMLDLELSALQADGYGEVISTPKVMSADKQKAKVATGVEVPYQSTTNSAAGSTATTSFKEALL   597
NTDB id 1052 ABD1 RS15850 WP 001017033.1        SNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSFKDALL   609
NTDB id 1039 HON27 RS01460 WP 031993779.1       SNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSFKDALL   609
NTDB id 1027147 AB4P92 RS13100 WP 395599503.1  VGN.TSGIGIAFI.TDNVLLDLELTAMEKTGNGEIVSQPKVVTSDKETAKILKGTEIPYQEASSSGA...TSVSFKEASL   577
NTDB id 1193 PAKAF RS26665 WP 003161249.1      KDA.TSGIGIGFI.TDNIILDLQLSAMEKTGNGEIVSQPKVVTSDKETAKILKGSEVPYQEASSSGA...TSTSFKEAAL   600
consensus                                        * *  *!*** *   ****!!!*!*!** *!  *!**!*!*********!** *!  **!!!****!*!    ****!!*!*!
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logo
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NTDB id 1257 GCO85 RS04855 WP 163621000.1       SLKVTPQITPDGKILMDLQINQDTPSPQ.TFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFGELPVV   655
NTDB id 1284 ACE17W RS12370 WP 010946666.1      SLKVTPQITPDGKILMDLQINQDTPSPQ.TFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFGELPVV   655
NTDB id 1009 ACIAD RS15175 WP 004923730.1       SLEVTPNITPDGKILMELNIANDSINSY.AQNGEAILNKNTINTNVLVNNGETVVLGGVFEQTTNNAVTKVPFLGDLPYV   676
NTDB id 1052 ABD1 RS15850 WP 001017033.1        SLNVTPSITPDGKIQMKLDISKDSVAGA.APNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFGDIPVV   688
NTDB id 1039 HON27 RS01460 WP 031993779.1       SLNVTPSITPDGKIQMKLDISKDSVAGA.APNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFGDIPVV   688
NTDB id 1027147 AB4P92 RS13100 WP 395599503.1  SLEVTPQITPDNRIIMEVKVTKDEPDYLNKVQDVPPIKKNEVNAKVLVNDGETIVIGGVFSNTQSKVVDKVPFLGDVPYL   657
NTDB id 1193 PAKAF RS26665 WP 003161249.1      SLEVTPQITPDNRIIVEVKVTKDAPDYQNMLNGVPPINKNEVNAKILVNDGETIVIGGVFSNEQSKSVEKVPFLGELPYL   680
consensus                                       !! !!!*!!!!**!**** ***!**      **** **********!!**!*!***!!** **   * * **!!*!**!**
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logo
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NTDB id 1257 GCO85 RS04855 WP 163621000.1       GILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1284 ACE17W RS12370 WP 010946666.1      GILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1009 ACIAD RS15175 WP 004923730.1       GRLFKKTAKSEAKNELLIFVTPRIVNDTIVGNH..........   709
NTDB id 1052 ABD1 RS15850 WP 001017033.1        GRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
NTDB id 1039 HON27 RS01460 WP 031993779.1       GRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
NTDB id 1027147 AB4P92 RS13100 WP 395599503.1  GRLFRRDVVSEKKSELLVFLTPRIMNNQAIAVSR.........   691
NTDB id 1193 PAKAF RS26665 WP 003161249.1      GRLFRRDTVTDRKNELLVFLTPRIMNNQAIAIGR.........   714
consensus                                       !*!!*** ******!!!*!*!!!!*** *
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X non conserved
X similar
X $\geq$ 50% conserved