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logo
NTDB id 1257 GCO85 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 1027198 AB4P97 RS26165 WP 395601799.1 MNRIFSTLGFSLWI.ALLSPMVQAANLKALDVAALPGDRVELKLSFDGPPP.QPKGYTTESPARIALDLPGVASQLAS..   76
NTDB id 1193 PAKAF RS26665 WP 003161249.1     MNSGLSRLGIALLA.AMFAPALLAADLEKLDVAALPGDRVELKLQFDEPVA.APRGYTIEQPARIALDLPGVQNKLGT..   76
consensus                                      !* **  * ** ** *** ***   **  * ** ********** ! **** *! ** ***! !**!!*    * * *

logo
NTDB id 1257 GCO85 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      SLIPVTTNEASSIDVSSDDKRARVVVNLKDAGAFTTRVEGNVFILKINNIQSTATPVAT...................SA   138
NTDB id 1052 ABD1 RS15850 WP 001017033.1       SKISVATNEASSVDVTSDDQRSRLTVNLKDAGAFTTRVEGNTFILKINSAQTSNKPLPV...................VS   138
NTDB id 1039 HON27 RS01460 WP 031993779.1      SKISVATNEASSVDVTSDDQRSRLTVNLKDTGAFTTRVEGNTFILKINSAQTSNKPLPV...................VS   138
NTDB id 1027198 AB4P97 RS26165 WP 395601799.1 KNLDLGSGNARTATVVEAKDRTRLIVSLTQLAPYDTRVEGNYLFVVVGQGAPARAPRPA.....VAASSAATPAAPAKAF   151
NTDB id 1193 PAKAF RS26665 WP 003161249.1     KNRELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNNLFVVVGNSPAGASVASTAPVKASPAPASYAQPIKPKPY   156
consensus                                      * *** ** * ** **   *!*!****!   * ******!* * ****       *

logo
NTDB id 1257 GCO85 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 1027198 AB4P97 RS26165 WP 395601799.1 VAKPRAIRGVDFQRGTAGEGNVVIDLSDPTIAPDIQEHDGKIILSFARTQLPEKLRVRLDVKDFATPVQFVNAGVTGDRT   231
NTDB id 1193 PAKAF RS26665 WP 003161249.1     VPAGRAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASAQSDRT   236
consensus                                      **   ******!***  **! !**!**** ***!***** **** ** ***!  ! *!*** !!**!!* * * *** *

logo
NTDB id 1257 GCO85 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 1027198 AB4P97 RS26165 WP 395601799.1 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 1027198 AB4P97 RS26165 WP 395601799.1   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 1027198 AB4P97 RS26165 WP 395601799.1   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 1027198 AB4P97 RS26165 WP 395601799.1   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 1027198 AB4P97 RS26165 WP 395601799.1   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 1027198 AB4P97 RS26165 WP 395601799.1   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 1027198 AB4P97 RS26165 WP 395601799.1   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