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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     MKQIIRQFSIGTVAYAIMQVASAQVAITNVVPMNIPGGGTEIRVMFNGLPP.QPQAYQLEQPARLILDFDKAGQKLA..K   77
NTDB id 1039 HON27 RS01460 WP 031993779.1     MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGGGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGLK..Q   77
NTDB id 1052 ABD1 RS15850 WP 001017033.1      MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGGGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGLK..Q   77
NTDB id 295992 DM292 RS15910 WP 110778196.1  MNSTLSRLGISVLV.AFVSPAVLAANLNALDVAALPGDRVELKLAFDEPVA.PPRGYTLEQPARIALDLPGVSNNLG..A   76
NTDB id 1193 PAKAF RS26665 WP 003161249.1    MNSGLSRLGIALLA.AMFAPALLAADLEKLDVAALPGDRVELKLQFDEPVA.APRGYTIEQPARIALDLPGVQNKLG..T   76
consensus                                    !* **  * ** ** *** ***   **  * ** ********** !  **   ! ** ***! !**!!*    * *   *

logo
NTDB id 1257 GC085 RS04855 WP 163621000.1     KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSVYSLVLNGKSNDLFENSK................EVFIT   142
NTDB id 1284 ACE17W RS12370 WP 010946666.1    KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSIYSLVLNGKSNDLFENSK................EVFIT   142
NTDB id 1009 ACIAD RS15175 WP 004923730.1     SLIPVTTNEASSIDVSSDDKRARVVVNLKDAGAFTTRVEGNVFILKINNIQSTAT.....PV.................A   135
NTDB id 1039 HON27 RS01460 WP 031993779.1     SKISVATNEASSVDVTSDDQRSRLTVNLKDTGAFTTRVEGNTFILKINSAQTSNK.....PL.................P   135
NTDB id 1052 ABD1 RS15850 WP 001017033.1      SKISVATNEASSVDVTSDDQRSRLTVNLKDAGAFTTRVEGNTFILKINSAQTSNK.....PL.................P   135
NTDB id 295992 DM292 RS15910 WP 110778196.1  KNRELGVGNARSVTVVEAQGRTRLIVNLTSLVPYSTRVDGKNLFVVLGEHAGVSG.....PAAVSAQPSAVAQPSVTTAP   151
NTDB id 1193 PAKAF RS26665 WP 003161249.1    KNRELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNNLFVVVGNSPAGASVASTAPVKASPAPASYAQ...PIKP   153
consensus                                    * *** ** * !* **    !*!****!     ******!* * ****             **                 *

logo
NTDB id 1257 GC085 RS04855 WP 163621000.1     NQVVNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEG   222
NTDB id 1284 ACE17W RS12370 WP 010946666.1    NQVVNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEG   222
NTDB id 1009 ACIAD RS15175 WP 004923730.1     TSAPAPQQGIGNIGFQRGAQGEGLVVIDLQGINTPVDVQQQGSKVVVRFPGIKIPTHLARRLNTTDFATPVASIDSYNDG   215
NTDB id 1039 HON27 RS01460 WP 031993779.1     VVS.AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDK   214
NTDB id 1052 ABD1 RS15850 WP 001017033.1      VVS.AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDK   214
NTDB id 295992 DM292 RS15910 WP 110778196.1  AKAVAVGRAIDNIDFRRGDDGAGNVIITLSDPSISSTIEEQGGKIRVNFAKAQLPESLRVRLDVQDFATPVRFVDSASQA   231
NTDB id 1193 PAKAF RS26665 WP 003161249.1    KPYVPAGRAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASAQS   233
consensus                                       **   ** *!*!**** **! !******* ********! **** ** ***!   ! *!*** !!**!!   **  ***

logo
NTDB id 1257 GC085 RS04855 WP 163621000.1     KKVRMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDK   302
NTDB id 1284 ACE17W RS12370 WP 010946666.1    KKVRMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDK   302
NTDB id 1009 ACIAD RS15175 WP 004923730.1     SNGVISIQSTGSYEYMAYQAENKLTISLKRPQDNV.RLNSKNNQNYTGKKISLDFQDIEVRRVLQLLADFTNINMVTADS   294
NTDB id 1039 HON27 RS01460 WP 031993779.1     GVGVITIQSSGSYEYMAYQAENKLTISLKRPQDKN.VTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADS   293
NTDB id 1052 ABD1 RS15850 WP 001017033.1      GVGVITIQSSGSYEYMAYQAENKLTISLKRPQDKN.VTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADS   293
NTDB id 295992 DM292 RS15910 WP 110778196.1  GGASIAIEPTGRYDYLAYQTDNKLTISVKPLTEDEAEKRKADRFAYSGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDT   311
NTDB id 1193 PAKAF RS26665 WP 003161249.1    DRTSITIEPSGLYDYLVYQTDNRLTVSIKPMTTEDAERRKKDNFAYTGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDT   313
consensus                                     * **! **! !****!! **************    * *   **! **!!*!!*!**! !!!!*!!!!**!*!**!*
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logo
NTDB id 1257 GC085 RS04855 WP 163621000.1     VQGDITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIRSDLIQINYAKAADIA   382
NTDB id 1284 ACE17W RS12370 WP 010946666.1    VQGDITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIRSDLIQINYAKAADIA   382
NTDB id 1009 ACIAD RS15175 WP 004923730.1     VQGNITLHLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVSELIKSEEDEAKAIAQSTKLAPLQTEYILLKYAKAADIE   374
NTDB id 1039 HON27 RS01460 WP 031993779.1     VQGNITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIM   373
NTDB id 1052 ABD1 RS15850 WP 001017033.1      VQGNITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIM   373
NTDB id 1295992 DM292 RS15910 WP 110778196.1 VSGNITLRLQNVPWDQALDLVLKTKGLDKRQVGNVLLVAPADEIAARERQELESQRQIAELAPLRREVVQVNYAKAADIA   391
NTDB id 1193 PAKAF RS26665 WP 003161249.1    VQGNITLRLQNVPWDQALDLVLKTKGLDKRKLGNVLLVAPADEIAARERQELEAQKQIAELAPLRRELIQVNYAKAADIA   393
consensus                                    !*!*!!!*!***!!!!!!!**!*!*!!!!!* !!!***** *** * !******* ** *!*!********!!!!*!!*
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logo
NTDB id 1257 GC085 RS04855 WP 163621000.1     VLIKDKQN.............................SLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPV   431
NTDB id 1284 ACE17W RS12370 WP 010946666.1    VLIKDKQN.............................SLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPV   431
NTDB id 1009 ACIAD RS15175 WP 004923730.1     KLITQGRNSGTSNSN.........TNGSATVEPLGDSVGTLLSPRGTISLDPRTNTLIINDTSQKIDQIRKMIDLLDIPV   445
NTDB id 1039 HON27 RS01460 WP 031993779.1     GLITQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQV   453
NTDB id 1052 ABD1 RS15850 WP 001017033.1      GLITQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQV   453
NTDB id 1295992 DM292 RS15910 WP 110778196.1 RLFQSVTDNGGMA...........................EERGSIAVDDRTNNIIAYQTQERLDELRRIVAQLDIPV   442
NTDB id 1193 PAKAF RS26665 WP 003161249.1    KLFQSVTSDGGQE...........................GKEGGRGSITVDDRTNSIIAYQPQERLDELRRIVSQLDIPV   447
consensus                                     !*   **                                 **** !!*!**!*!!!******* *****!*** *!!**!
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logo
NTDB id 1257 GC085 RS04855 WP 163621000.1     KQVLIEARIVEVTKDFSQDIGIRWGVSRPTHLS..GTLEGANE...............LARGTAP...ANVVPLERRLNL   491
NTDB id 1284 ACE17W RS12370 WP 010946666.1    KQVLIEARIVEVTKDFSQDIGIRWGVSRPTHLS..GTLEGANE...............LARGTAP...ANVVPLERRLNL   491
NTDB id 1009 ACIAD RS15175 WP 004923730.1     KQVMIEARIVRATTSFSKEMGVKWGILSQGINQNSNLLVGGSETTLWNLRNP.DSN..............GTYTIE...RP   508
NTDB id 1039 HON27 RS01460 WP 031993779.1     KQVMVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREP.KKDETTGG........YKYTIE...RP   521
NTDB id 1052 ABD1 RS15850 WP 001017033.1      KQVMVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREP.KKDETTGG........YKYTIE...RP   521
NTDB id 1295992 DM292 RS15910 WP 110778196.1 RQVMIEARIVEANVDYDKSLGVRWGGNLGAGD..........KWSAWGKNGNLDVEDEEGGGQR.....ITW......PM   501
NTDB id 1193 PAKAF RS26665 WP 003161249.1    RQVMIEARIVEANVGYDKSLGVRWGGAYHKG...........NWSGYGKDGNIGIKDEDGMNCGPIAGSCTFPTTGTSKS   516
consensus                                    *!!**!!!!!***  *****!**!!*   *       * ** * *  *         *  *           * **   *
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logo
NTDB id 1257 GC085 RS04855 WP 163621000.1     DLAAVPLTGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGA...T   567
NTDB id 1284 ACE17W RS12370 WP 010946666.1    DLAAAPLTGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGA...T   567
NTDB id 1009 ACIAD RS15175 WP 004923730.1     DNLNVDLGVTTTGASSIAFGLISLSDFMLDLELSALQADGYGEVISTPKVMSADKQKAKVATGVEVPYQSTTNSAAGSTA   588
NTDB id 1039 HON27 RS01460 WP 031993779.1     DNLNVDLGVSNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTA   600
NTDB id 1052 ABD1 RS15850 WP 001017033.1      DNLNVDLGVSNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTA   600
NTDB id 1295992 DM292 RS15910 WP 110778196.1 NTPFVDMGAVGS.TSGIGLGFV.TDNAILDLQLSAMEKTGNGEVVSQPKVVTADKETAKILKGSEVPYQEASSSGA...T   576
NTDB id 1193 PAKAF RS26665 WP 003161249.1    PSPFVDLGAKDA.TSGIGIGFI.TDNIILDLQLSAMEKTGNGEIVSQPKVVTSDKETAKILKGSEVPYQEASSSGA...T   591
consensus                                    *   ***** * * *!*** *  ** *!!!*!!!!* *! *!**!*!*****!** *! **!!!****!*!   *
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logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1     AVAFKKAVLSLKVTPQITPDGKILMDLQINQDTP..SPQTFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINR   645
NTDB id 1284 ACE17W RS12370 WP 010946666.1    AVAFKKAVLSLKVTPQITPDGKILMDLQINQDTP..SPQTFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINR   645
NTDB id 1009 ACIAD RS15175 WP 004923730.1     TTSFKEALLSLEVTPNITPDGKILMELNIANDSI..NSYAQNGEAILNKNTINTNVLVNNGETVVLGGVFEQTTNNAVTK   666
NTDB id 1039 HON27 RS01460 WP 031993779.1     TTSFKDALLSLNVTPSITPDGKIQMKLDISKDSV..AGAAPNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTK   678
NTDB id 1052 ABD1 RS15850 WP 001017033.1      TTSFKDALLSLNVTPSITPDGKIQMKLDISKDSV..AGAAPNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTK   678
NTDB id 295992 DM292 RS15910 WP 110778196.1  STSFKEAALSLEVTPQITPDNRIIMEVKVTKDEPDFSQAATTGVPAIRKNEVNAKVLVTDGETIVIGGVFSNTQSKSVDK   656
NTDB id 1193 PAKAF RS26665 WP 003161249.1    STSFKEAALSLEVTPQITPDNRIIVEVKVTKDAPDYQN.MLNGVPPINKNEVNAKILVNDGETIVIGGVFSNEQSKSVEK   670
consensus                                    ***!!*!*!!!  !!!*!!!!**!**** ***!**      * *!** **********!!**!*!***!!**  **   *** *

logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1     IPFFGELPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1284 ACE17W RS12370 WP 010946666.1    IPFFGELPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
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 295992 DM292 RS15910 WP 110778196.1  VPFLGDLPFLGRLFRRDLVQDRKSELLVFITPRIMNNQAIQASR.........   700
NTDB id 1193 PAKAF RS26665 WP 003161249.1    VPFLGELPYLGRLFRRDTVTDRKNELLVFLTPRIMNNQAIAIGR.........   714
consensus                                    *!!*!**!**!*!!*** ******!!!*!*!!!!*** *
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X non conserved

X similar

X $\geq$ 50% conserved