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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1284 ACE17W RS12370 WP 010946666.1     MRKIIAILIL..ISASLSMAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ    78
NTDB id 1257 GC085 RS04855 WP 163621000.1      MRKIIAILIL..ISASLSLAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ    78
NTDB id 188165 VSVS05 RS12470 WP 156785342.1  ..........................................................................................     0
NTDB id 1186 GTF74 RS01320 WP 000788426.1     ..........................................................................................     0
NTDB id 1175 A1552VC RS12105 WP 000788426.1   ..........................................................................................     0
NTDB id 1408 DSB67 RS13980 WP 010643500.1     ..........................................................................................     0
NTDB id 1193 PAKAF RS26665 WP 003161249.1     MNSGLSRLGIALLA.AMFAPALLAADLEKLDVAALPGDRVELKLQFDEPVA.APRGYTIEQPARIALDLPGVQNKL..GT    76
NTDB id 1052 ABD1 RS15850 WP 001017033.1      MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGL..KQ    77
NTDB id 1039 HON27 RS01460 WP 031993779.1     MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGL..KQ    77
consensus                                     *         *  *   *          *  *    *       *   *       *  *    * ** **       *

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1284 ACE17W RS12370 WP 010946666.1     KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGS...I.YSLVLNGKSND...LFENSK......EVFITNQV   145
NTDB id 1257 GC085 RS04855 WP 163621000.1      KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGS...V.YSLVLNGKSND...LFENSK......EVFITNQV   145
NTDB id 188165 VSVS05 RS12470 WP 156785342.1  ............................MIQGWKVTNQKRMRCLQVICVVI.VA....................LLTAQPQA    33
NTDB id 1186 GTF74 RS01320 WP 000788426.1     ............................MKNGLKT..YVAQTWLTLWVGLALCA....................SSMVFSAE    32
NTDB id 1175 A1552VC RS12105 WP 000788426.1   ............................MKNGLKT..YVAQTWLTLWVGLALCA....................SSMVFSAE    32
NTDB id 1408 DSB67 RS13980 WP 010643500.1     ..........................MKMRHGLTLTPRKLTGLFSLWFSLLLAP.......................FVAAE    33
NTDB id 1193 PAKAF RS26665 WP 003161249.1     KNRELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNNLFVVVGNSPAGASVASTAPVKASPAPASYAQPIKPKPY   156
NTDB id 1052 ABD1 RS15850 WP 001017033.1      SKISVATNEASSVDVTSDDQRSRLTVNLKDAGAFTTRVEGNTFILKINSAQTS..........NKPLPVVS.........   138
NTDB id 1039 HON27 RS01460 WP 031993779.1     SKISVATNEASSVDVTSDDQRSRLTVNLKDTGAFTTRVEGNTFILKINSAQTS..........NKPLPVVS.........   138
consensus                                        *       *  *      * *  * ** ** **  * *    * * * * *

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1284 ACE17W RS12370 WP 010946666.1     VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV   225
NTDB id 1257 GC085 RS04855 WP 163621000.1      VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV   225
NTDB id 188165 VSVS05 RS12470 WP 156785342.1  WSMSNQLLSVDFRLDDTNRGKVMLQLSSDQLALDIQEDPQGLVIELFDTSVDDALLSRFDVADFGNNVQTMEVFRLDDRV   113
NTDB id 1186 GTF74 RS01320 WP 000788426.1     SATANQLENIDFRVNKEKAAVLIVELASPSAVVDVQKVQEGLSIELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPST   112
NTDB id 1175 A1552VC RS12105 WP 000788426.1   SATANQLENIDFRVNKEKAAVLIVELASPSAVVDVQKVQEGLSIELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPST   112
NTDB id 1408 DSB67 RS13980 WP 010643500.1     EVQSNSLKSIDFRTNKDKDAVIVVELVSPAAIVDIKRVQEGLSIDLLNTSVKDDQLYLLDVKDFSTVVESVEVFRDTSTT   113
NTDB id 1193 PAKAF RS26665 WP 003161249.1     VPAGRAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASAQSDRT   236
NTDB id 1052 ABD1 RS15850 WP 001017033.1      .AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVG   217
NTDB id 1039 HON27 RS01460 WP 031993779.1     .AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVG   217
consensus                                        * * ***!*       *******       *!** **  **** * ! *** ** ***! !! **! ***** *

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1284 ACE17W RS12370 WP 010946666.1     RMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKVQG   305
NTDB id 1257 GC085 RS04855 WP 163621000.1      RMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKVQG   305
NTDB id 188165 VSVS05 RS12470 WP 156785342.1  RVHIQIEGRFAYQHTLDGGLLELVVTEAESEGKHDL.SMLSKASANKIAINFQDISVRNVLQLIAEYNDFNLVVSDAVTG   192
NTDB id 1186 GTF74 RS01320 WP 000788426.1     QLVVTVDGEFQHDYTLKGKYLEVVISKLKADEKPKP.KSVLEKEGKLISINFQDIPVRNVLQLIADYNGFNLVVSDSVVG   191
NTDB id 1175 A1552VC RS12105 WP 000788426.1   QLVVTVDGEFQHDYTLKGKYLEVVISKLKADEKPKP.KSVLEKEGKLISINFQDIPVRNVLQLIADYNGFNLVVSDSVVG   191
NTDB id 1408 DSB67 RS13980 WP 010643500.1     RLVAYIDEDYSHDYRLTGRYLEVKVGKLKANEKAPD.KSILDKEGKLISINFQDIPVRNVLQLIADYNQFNLVVSDSVEG   192
NTDB id 1193 PAKAF RS26665 WP 003161249.1     SITIEPSGLYDYLVYQTDNRLTVSIKPMTTEDAERRKKDNFAYTGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDTVQG   316
NTDB id 1052 ABD1 RS15850 WP 001017033.1      VITIQSSGSYEYMAYQAENKLTISLKRPQDKNVT.SLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQG   296
NTDB id 1039 HON27 RS01460 WP 031993779.1     VITIQSSGSYEYMAYQAENKLTISLKRPQDKNVT.SLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQG   296
consensus                                      ***    *** *  **  * * * * ** ***          ********!!*! *! !!!!*!*****!*!**!*!*!
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logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1    DITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIRSDLIQINYAKAADIAVLI   385
NTDB id 1257 GC085 RS04855 WP 163621000.1     DITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIRSDLIQINYAKAADIAVLI   385
NTDB id 188165 VSVS05 RS12470 WP 156785342.1 NLTLRLDDVPWPQVLDIILQVKGLDKRIEGNVVLVAPKAEFDLREQQRLENARMAEQLSELHSDIIAVNFANASDIAEMI   272
NTDB id 1186 GTF74 RS01320 WP 000788426.1    NLTLRLDGVPWQQVLDIILQVKGLDKRVDGNVILIAPKEELDLREKQALEKARLAEELGDLKSEIIKINFAKASDIAAMI   271
NTDB id 1175 A1552VC RS12105 WP 000788426.1  NLTLRLDGVPWQQVLDIILQVKGLDKRVDGNVILIAPKEELDLREKQALEKARLAEELGDLKSEIIKINFAKASDIAAMI   271
NTDB id 1408 DSB67 RS13980 WP 010643500.1    NLTLRLDGVPWQQVLDIILQVKGLDKRVDGNVILVAPKDELDLREKQQLEKQKLEKEIGELSSEIIKVNFAKASDIAEMI   272
NTDB id 1193 PAKAF RS26665 WP 003161249.1    NITLRLQNVPWDQALDLVLKTKGLDKRKLGNVLLVAPADEIAARERQELEAQKQIAELAPLRRELIQVNYAKAADIAKLF   396
NTDB id 1052 ABD1 RS15850 WP 001017033.1     NITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIMGLI   376
NTDB id 1039 HON27 RS01460 WP 031993779.1    NITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIMGLI   376
consensus                                    **!!!!! **!!*!*!!**! ***!!!!* !!!********** *! * **  *  * ********!****!*!*!!* **

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1    KDKQ.N.............................SLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVKQV   434
NTDB id 1257 GC085 RS04855 WP 163621000.1     KDKQ.N.............................SLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVKQV   434
NTDB id 188165 VSVS05 RS12470 WP 156785342.1 GGSGAI.............................SMLSERGSITVDERTNALLIRDLPSHIEMVRSVVGSLDVPVKQV   322
NTDB id 1186 GTF74 RS01320 WP 000788426.1    GGEGNV............................NMLSERGSISIDERTNSLLIRELPDNIAVIREIIESLDIPVKQV   321
NTDB id 1175 A1552VC RS12105 WP 000788426.1  GGEGNV............................NMLSERGSISIDERTNSLLIRELPDNIAVIREIIESLDIPVKQV   321
NTDB id 1408 DSB67 RS13980 WP 010643500.1    NGEGNI............................SMLSDRGSMTIDERTNSLLIRELPENIEVIREIIESLDIPVKQV   322
NTDB id 1193 PAKAF RS26665 WP 003161249.1    QSVTSDG..GQE......................GKEGGRGSITVDDRTNSIIAYQPQERLDELRRIVSQLDIPVRQV   450
NTDB id 1052 ABD1 RS15850 WP 001017033.1     TQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQVKQV   456
NTDB id 1039 HON27 RS01460 WP 031993779.1    TQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQVKQV   456
consensus                                       *                                *****!!****!*!!!**** *     **  *!**** !!**!*!!

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1    LIEARIVEVTKDFSQDIGIRWGVSRPTH......LSGTLEGANE....L...AR....GT..APANVVPLERRLNLDLAA   495
NTDB id 1257 GC085 RS04855 WP 163621000.1     LIEARIVEVTKDFSQDIGIRWGVSRPTH......LSGTLEGANE....L...AR....GT..APANVVPLERRLNLDLAA   495
NTDB id 188165 VSVS05 RS12470 WP 156785342.1 QIEARIVTVNQGSLDELGVRWSLNSTTGN.....LGATLEGNLNQRDSD..........G..LLSPGDNIDDFLNVNLAA   385
NTDB id 1186 GTF74 RS01320 WP 000788426.1    QIEARIVTVKEGNLEELGVRWGVMSTNGSHS...VGGSIESNLWQKGLLAD..............DEFPVDEFLNVNLAS   384
NTDB id 1175 A1552VC RS12105 WP 000788426.1  QIEARIVTVKEGNLEELGVRWGVMSTNGSHS...VGGSIESNLWQKGLLAD..............DEFPVDEFLNVNLAS   384
NTDB id 1408 DSB67 RS13980 WP 010643500.1    QIEARIVTINEGNMDELGVRWGFTSINGSHT...VGGSIENNLATIGLYDGGGE....GD..DGGSSVGIDDFLNVNLAA   393
NTDB id 1193 PAKAF RS26665 WP 003161249.1    MIEARIVEANVGYDKSLGVRWGGAYHKGNWS....GYGKDGN.IGIKDEDGMNCGPIAGSCTFPTTGTSKSPSPFVDLGA   525
NTDB id 1052 ABD1 RS15850 WP 001017033.1     MVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREP...KKDETTGGYKYT...IERPDNLNVDLGV   530
NTDB id 1039 HON27 RS01460 WP 031993779.1    MVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREP...KKDETTGGYKYT...IERPDNLNVDLGV   530
consensus                                    **!!!!! *  **  **!**!** *  **     ****** ** *            *        * *** ****!**

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1    APLTGATPASVGIALAKLNDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGA...TAVAFK   572
NTDB id 1257 GC085 RS04855 WP 163621000.1     VPLTGATPASVGIALAKLNDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGA...TAVAFK   572
NTDB id 188165 VSVS05 RS12470 WP 156785342.1 I...AGHSSSLAFQVAKLGSSTLLDLELSALQSESKAEVISSPRLITTNKKPAYIEQGTDIPFLESTSSGA...SSVSFK   459
NTDB id 1186 GTF74 RS01320 WP 000788426.1    T...SANASSIAFQVAKLGSGTLLDLELSALQNESKAEIISSPRLITTNKQPAYIEQGTEIPYLESSSSGA...STVAFK   458
NTDB id 1175 A1552VC RS12105 WP 000788426.1  T...SANASSIAFQVAKLGSGTLLDLELSALQNESKAEIISSPRLITTNKQPAYIEQGTEIPYLESSSSGA...STVAFK   458
NTDB id 1408 DSB67 RS13980 WP 010643500.1    T...SPNATSIAFQVAKLGSDTLLDLELSALQQESKAEIISSPRLITTNKKPAYIEQGTEIPYLESSSSGA...TSVTFK   467
NTDB id 1193 PAKAF RS26665 WP 003161249.1    K....DATSGIGIGFIT..DNIILDLQLSAMEKTGNGEIVSQPKVVTSDKETAKILKGSEVPYQEASSSGA...TSTSFK   596
NTDB id 1052 ABD1 RS15850 WP 001017033.1     S....NPAGSIAFGLISM.SDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSFK   605
NTDB id 1039 HON27 RS01460 WP 031993779.1    S....NPAGSIAFGLISM.SDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSFK   605
consensus                                    *    * ********** *  *!!!*!!!** ****!**!*!***!**** ! ** !***!******!*!   ****!!
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logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1     KAVLSLKVTPQITPDGKILMDLQINQDTPSPQT.FLGVP...AIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPF   648
NTDB id 1257 GC085 RS04855 WP 163621000.1      KAVLSLKVTPQITPDGKILMDLQINQDTPSPQT.FLGVP...AIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPF   648
NTDB id 188165 VSVS05 RS12470 WP 156785342.1  KAVLSLKVTPQITPDNRLILDLSVTQDRPGEVV.KVGTGEAVSINTQRIGTQVLVDNGETIVLGGIYQHSVSDTVDKVPL   538
NTDB id 1186 GTF74 RS01320 WP 000788426.1     KAVLSLKVTPQITPDNRLVLDLSVTQDRRGETV.KTGTGEAVSIDTQRIGTQVLVNNGETVVLGGIFQHSINNSVDKVPL   537
NTDB id 1175 A1552VC RS12105 WP 000788426.1   KAVLSLKVTPQITPDNRLVLDLSVTQDRRGETV.KTGTGEAVSIDTQRIGTQVLVNNGETVVLGGIFQHSINNSVDKVPL   537
NTDB id 1408 DSB67 RS13980 WP 010643500.1     KAVLSLKVTPQITPDNRLVLDLSVTQDRPGQVV.KTGTGEAVAIDTQRIGTQVLVNNGETVVLGGIFQHSITNSVDKVPL   546
NTDB id 1193 PAKAF RS26665 WP 003161249.1     EAALSLEVTPQITPDNRIIVEVKVTKDAPDYQNMLNGVP...PINKNEVNAKILVNDGETIVIGGVFSNEQSKSVEKVPF   673
NTDB id 1052 ABD1 RS15850 WP 001017033.1      DALLSLNVTPSITPDGKIQMKLDISKDSVA.GAAPNGEL...ILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPF   681
NTDB id 1039 HON27 RS01460 WP 031993779.1     DALLSLNVTPSITPDGKIQMKLDISKDSVA.GAAPNGEL...ILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPF   681
consensus                                     *!*!!!*!!!*!!!!******* ***!  **       !       * **  *****!!**!*!***!!**  **   ******!*

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1     FGELPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1257 GC085 RS04855 WP 163621000.1      FGELPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 188165 VSVS05 RS12470 WP 156785342.1  LGDIPYLGALFRRSYQRMGKSELLIFVTPKVVMQ................   572
NTDB id 1186 GTF74 RS01320 WP 000788426.1     LGDLPVLGALFRRTYEQMGKSELLIFVTPKVVIQ................   571
NTDB id 1175 A1552VC RS12105 WP 000788426.1   LGDLPVLGALFRRTYEQMGKSELLIFVTPKVVIQ................   571
NTDB id 1408 DSB67 RS13980 WP 010643500.1     LGDLPLLGALFRRSYENVGKSELLIFVTPKVVIQ................   580
NTDB id 1193 PAKAF RS26665 WP 003161249.1     LGELPYLGRLFRRDTVTDRKNELLVFLTPRIMNNQAIAIGR.........   714
NTDB id 1052 ABD1 RS15850 WP 001017033.1      FGDIPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
NTDB id 1039 HON27 RS01460 WP 031993779.1     FGDIPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
consensus                                     *!**!**! !!**   ** * !!!*!*!!*** *
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X non conserved

X similar

X $\geq$ 50% conserved