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logo
NTDB id 1009 ACIAD RS15175 WP 004923730.1     MKQIIRQFSIGTVAYAIMQVASAQVAITNVVPMNIPGQGTEIRVMFNGLPPQ.PQAYQLEQPARLILDFDKAGQKL..AK    77
NTDB id 1052 ABD1 RS15850 WP 001017033.1      MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPPQ.PQAYQLENPSRLILDFDKAQQGL..KQ    77
NTDB id 1039 HON27 RS01460 WP 031993779.1     MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPPQ.PQAYQLENPSRLILDFDKAQQGL..KQ    77
NTDB id 1257 GCO85 RS04855 WP 163621000.1     MRKIIAILIL..ISASLSLAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ    78
NTDB id 1284 ACE17W RS12370 WP 010946666.1    MRKIIAILIL..ISASLSMAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ    78
NTDB id 380278 FXO11 RS04145 WP 202980284.1   MFRKFAVMFGMA.ALGMFSGLAHAVSLNDVDFTSLPGDGTEVTLTFDGTPPQ.PTGYTIERPARIAVDLRNTQSAL..ES    76
NTDB id 1193 PAKAF RS26665 WP 003161249.1     MNSGL.SRLGIALLAAMFAPALLAADLEKLDVAALPGDRVELKLQFDEPVAA.PRGYTIEQPARIALDLPGVQNKL..GT    76
consensus
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logo
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 1257 GCO85 RS04855 WP 163621000.1     KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSVYSLVLNGKSNDLFENSK.............EVFITNQV   145
NTDB id 1284 ACE17W RS12370 WP 010946666.1    KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSIYSLVLNGKSNDLFENSK.............EVFITNQV   145
NTDB id 380278 FXO11 RS04145 WP 202980284.1   RSVSLGGGNAQSMTVVETDDRTRLIFNLVELVPYTTNVSGNTVTLRIGGDAGGSASAPAS...A.........STSSAPV   144
NTDB id 1193 PAKAF RS26665 WP 003161249.1     KNRELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNNLFVVVGNSPAGASVASTAPVKASPAPASYAQPIKPKPY   156
consensus
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logo
NTDB id 1009 ACIAD RS15175 WP 004923730.1     PAPQQGIGNIGFQRGAQGEGLVVIDLQGTNTPVDVQQQGSKVVVRFPGIKIPTHLARRLNTTDFATPVASIDSYNDGSNG   218
NTDB id 1052 ABD1 RS15850 WP 001017033.1      .AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVG   217
NTDB id 1039 HON27 RS01460 WP 031993779.1     .AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVG   217
NTDB id 1257 GCO85 RS04855 WP 163621000.1     VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV   225
NTDB id 1284 ACE17W RS12370 WP 010946666.1    VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV   225
NTDB id 380278 FXO11 RS04145 WP 202980284.1   ASGRDAITNVDFRRGSNGEGRIIVTMSDPTIPVDLSETGGRIRLVMDEAQVPEQLRRRLDVTDFATPVTRVDTFMQGDDA   224
NTDB id 1193 PAKAF RS26665 WP 003161249.1     VPAGRAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASAQSDRT   236
consensus
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logo
NTDB id 1009 ACIAD RS15175 WP 004923730.1     VISIQSTGSYEYMAYQAENKLTISLKRPQDN.VRLNSKNNQNYTGKKISLDFQDIEVRRVLQLLADFTNINMVTADSVQG   297
NTDB id 1052 ABD1 RS15850 WP 001017033.1      VITIQSSGSYEYMAYQAENKLTISLKRPQDK.NVTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQG   296
NTDB id 1039 HON27 RS01460 WP 031993779.1     VITIQSSGSYEYMAYQAENKLTISLKRPQDK.NVTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQG   296
NTDB id 1257 GCO85 RS04855 WP 163621000.1     RMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKVQG   305
NTDB id 1284 ACE17W RS12370 WP 010946666.1    RMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKVQG   305
NTDB id 380278 FXO11 RS04145 WP 202980284.1   VVEIRPQGNYDYLAYQADNQFTVSVEPLTEEEAESRRDEKFPYSGEKLSLNFQDIEVRSVLQLIADFTGLNLVASDTVSG   304
NTDB id 1193 PAKAF RS26665 WP 003161249.1     SITIEPSGLYDYLVYQTDNRLTVSIKPMTTEDAERRKKDNFAYTGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDTVQG   316
consensus
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logo
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 1257 GCO85 RS04855 WP 163621000.1      DITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIRSDLIQINYAKAADIAVLI   385
NTDB id 1284 ACE17W RS12370 WP 010946666.1     DITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIRSDLIQINYAKAADIAVLI   385
NTDB id 380278 FXO11 RS04145 WP 202980284.1    SITLRLQNVPWDQALDLILKTKGLDKRQIGNVLLVAPADEIAARERLELETSKQIAELAPVRLDIIQVNYAKAGDIVALV   384
NTDB id 1193 PAKAF RS26665 WP 003161249.1      NITLRLQNVPWDQALDLVLKTKGLDKRKLGNVLLVAPADEIAARERQELEAQKQIAELAPLRRELIQVNYAKAADIAKLF   396
consensus                                      *!!!*!***!!!!!!!**!*!**!!!!* !!!***** *** * !******  ** *!*!*****!***!!!!*!!  !*

logo
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 1257 GCO85 RS04855 WP 163621000.1      KDK.............................QNSLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVKQV   434
NTDB id 1284 ACE17W RS12370 WP 010946666.1     KDK.............................QNSLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVKQV   434
NTDB id 380278 FXO11 RS04145 WP 202980284.1    QADA............................ELISDRGFISSDARTNTISVRETAEKLEEIRRLVNTWDIPVRQV   432
NTDB id 1193 PAKAF RS26665 WP 003161249.1      QSVTSDG.........................GQEGKEGGRGSITVDDRTNSIIAYQPQERLDELRRIVSQLDIPVRQV   450
consensus                                                                      ****  !!*!**! !!!******** *****!***   *!**!*!!

logo
NTDB id 1009 ACIAD RS15175 WP 004923730.1      MIEARIVRATTSFSKEMGVKWGILSQGINQNSNLLVGGSETTLWNLRNPDSN.....GTYTIER...PDNLNVDLGVTTT   520
NTDB id 1052 ABD1 RS15850 WP 001017033.1       MVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPKKDETTGGYKYTIER...PDNLNVDLGVSNP   533
NTDB id 1039 HON27 RS01460 WP 031993779.1      MVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPKKDETTGGYKYTIER...PDNLNVDLGVSNP   533
NTDB id 1257 GCO85 RS04855 WP 163621000.1      LIEARIVEVTKDFSQDIGIRWGVSRPTHL..SGTLEGANELARGTAPAN.VV........PLERRLNLDLAAVPLTGATP   503
NTDB id 1284 ACE17W RS12370 WP 010946666.1     LIEARIVEVTKDFSQDIGIRWGVSRPTHL..SGTLEGANELARGTAPAN.VV........PLERRLNLDLAAAPLTGATP   503
NTDB id 380278 FXO11 RS04145 WP 202980284.1    SIEARIVRAQTNVAESLGIRWGGAGYDVSGNNVFSVGGSQSAVGEARDA.AGGGSGDITFPGAL.......AVDLGVTAN   504
NTDB id 1193 PAKAF RS26665 WP 003161249.1      MIEARIVEANVGYDKSLGVRWGGAYHKGN.WSGYGKDGNIGIKDEDGMN.CGPIAGSCTFPTTGTSKSPSPFVDLGA.KD   527
consensus                                      **!!!!!**** *****!**!!*    *  **  ******* *   *        *   *****    *   **!*** *

logo
NTDB id 1009 ACIAD RS15175 WP 004923730.1      GASSIAFGLISLSDFMLDLELSALQADGYGEVISTPKVMSADKQKAKVATGVEVPYQSTTNSAAGSTATTSFKEALLSLE   600
NTDB id 1052 ABD1 RS15850 WP 001017033.1       .AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSFKDALLSLN   612
NTDB id 1039 HON27 RS01460 WP 031993779.1      .AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSFKDALLSLN   612
NTDB id 1257 GCO85 RS04855 WP 163621000.1      ASVGIALAKLN.DNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGAT...AVAFKKAVLSLK   579
NTDB id 1284 ACE17W RS12370 WP 010946666.1     ASVGIALAKLN.DNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGAT...AVAFKKAVLSLK   579
NTDB id 380278 FXO11 RS04145 WP 202980284.1    GASSFAFGWAS.DDFLVDLELSALETDGKAEVVSQPRVVTADRQTASIKSGEEIPYQEASSSGAT...SVSFKEAVLSLE   580
NTDB id 1193 PAKAF RS26665 WP 003161249.1      ATSGIGIGFIT.DNIILDLQLSAMEKTGNGEIVSQPKVVTSDKETAKILKGSEVPYQEASSSGAT...STSFKEAALSLE   603
consensus                                      **  ***** **  *****!!*!!!** *!  *!**!*!*********!** *!  **!!!****!*!*    ***!!*!*!!!
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logo

NTDB id 1009 ACIAD RS15175 WP 004923730.1     VTPNITPDGKILMELNIANDSINSY.AQNGEAILNKNTINTNVLVNNGETVVLGGVFEQTTNNAVTKVPFLGDLPYVGRL   679
NTDB id 1052 ABD1 RS15850 WP 001017033.1      VTPSITPDGKIQMKLDISKDSVAGA.APNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFGDIPVVGRL   691
NTDB id 1039 HON27 RS01460 WP 031993779.1     VTPSITPDGKIQMKLDISKDSVAGA.APNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFGDIPVVGRL   691
NTDB id 1257 GCO85 RS04855 WP 163621000.1     VTPQITPDGKILMDLQINQDTPSPQ.TFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFGELPVVGIL   658
NTDB id 1284 ACE17W RS12370 WP 010946666.1    VTPQITPDGKILMDLQINQDTPSPQ.TFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFGELPVVGIL   658
NTDB id 1193 PAKAF RS26665 WP 003161249.1     VTPQITPDNRIIVEVKVTKDAPDYQNMLNGVPPINKNEVNAKILVNDGETIVIGGVFSNEQSKSVEKVPFLGELPYLGRL   683
consensus                                     !!!*!!!!**!**** * *!*       *!** *********!!**!*!***!!** **    ****!!*!**!**!*!
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logo

NTDB id 1009 ACIAD RS15175 WP 004923730.1     FKKTAKSEAKNELLIFVTPRIVNDTIVGNH..........   709
NTDB id 1052 ABD1 RS15850 WP 001017033.1      FRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
NTDB id 1039 HON27 RS01460 WP 031993779.1     FRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
NTDB id 1257 GCO85 RS04855 WP 163621000.1     FSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1284 ACE17W RS12370 WP 010946666.1    FSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1193 PAKAF RS26665 WP 003161249.1     FKRTENIDERSELLIFITPTIMRSELIN............   686
NTDB id 1193 PAKAF RS26665 WP 003161249.1     FRRDTVTDRKNELLVFLTPRIMNNQAIAIGR.........   714
consensus                                     !**    ** **!!!*!*!!*!**   *
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X non conserved

X similar

X $\geq$ 50% conserved