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logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1       MRKIIAILIL..ISASLSLAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ   78
NTDB id 1284 ACE17W RS12370 WP 010946666.1      MRKIIAILIL..ISASLSMAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ   78
NTDB id 1193 PAKAF RS26665 WP 003161249.1       MNSGLSRLGIALLAA.MFAPALLAADLEKLDVAALPGDRVELKLQFDEPVA.APRGYTIEQPARIALDLPGVQNKLG..T   76
NTDB id 1070010 ACIHQS RS14750 WP 404231745.1  MNRAFRQFSMAAITIAVMQAASAQVAMTNIVPMSLADQGTEIRIMFNGLPP.QPQAYQLEQPGRLILDFDKAQQTLK..R   77
NTDB id 1009 ACIAD RS15175 WP 004923730.1       MKQIIRQFSIGTVAYAIMQVASAQVAITNVVPMNIPGQGTEIRVMFNGLPP.QPQAYQLEQPARLILDFDKAGQKLA..K   77
NTDB id 1052 ABD1 RS15850 WP 001017033.1        MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGLK..Q   77
NTDB id 1039 HON27 RS01460 WP 031993779.1       MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGLK..Q   77
consensus                                       !* ******** ** ****************** ***********!***** *!*******! !**!!****** *    *

logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1       KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSVYSLVLNGKSNDLFENSKEV.............FITNQV  145
NTDB id 1284 ACE17W RS12370 WP 010946666.1      KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSIYSLVLNGKSNDLFENSKEV.............FITNQV  145
NTDB id 1193 PAKAF RS26665 WP 003161249.1       KNRELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNNLFVVVGNSPAGASVASTAPVKASPAPASYAQPIKPKPY  156
NTDB id 1070010 ACIHQS RS14750 WP 404231745.1  TSIPVSTNEANSIDVASDDQRSRVIVNLKDAGAFTTRVEGNTFVLKINSVQPQTS.....AVMK.............SSV  139
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
consensus                                       * *** **** !*** *** !*!****!** ********!* ******  *          **

logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1       VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV  225
NTDB id 1284 ACE17W RS12370 WP 010946666.1      VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV  225
NTDB id 1193 PAKAF RS26665 WP 003161249.1       VPAGRAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASAQSDRT  236
NTDB id 1070010 ACIHQS RS14750 WP 404231745.1  NQVQQGVSNIGFQRGKDGEGLVVIDLLGSNTPVDVQQQGSKIVVRTMGSKIPTHLARRLNTNDFATPVASIDAYNDKGNG  219
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
consensus                                           *** *!*!***   **!*!**!* ******!****!***************!**!**!*** !!**!! *******    *

logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1       RMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKVQG  305
NTDB id 1284 ACE17W RS12370 WP 010946666.1      RMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKVQG  305
NTDB id 1193 PAKAF RS26665 WP 003161249.1       SITIEPSGLYDYLVYQTDNRLTVSIKPMTTEDAERRKKDNFAYTGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDTVQG  316
NTDB id 1070010 ACIHQS RS14750 WP 404231745.1  IINIQSAGSYEYMAYQAENKLTISLKRPQEN.TPQ.KAKAQAYTGNKISLDFQDIEVRRVLQLLADFTGINMVAADTVQG  297
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
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 1193 PAKAF RS26665 WP 003161249.1        NITLRLQNVPWDQALDLVLKTKGLDKRKLGNVLLVAPADEIAARERQELEAQKQIAELAPLRRELIQVNYAKAADIAKLF   396
NTDB id 1070010 ACIHQS RS14750 WP 404231745.1   NITLRLKDVPWDQALDIVLKTKNLDKRRNGNVIWIAPIPELIKSEEDEAKAIAQSIKLAPIQSEYIKLSYAKAADILKLI   377
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
consensus                                        *!!!*!***!!!!!!!**!*!**!!!!**!!!*********** !********** *!*!*****!** !!!!*!!  !*

logo

NTDB id 1257 GCO85 RS04855 WP 163621000.1        KDKQN...............................SLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVKQV   434
NTDB id 1284 ACE17W RS12370 WP 010946666.1       KDKQN...............................SLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVKQV   434
NTDB id 1193 PAKAF RS26665 WP 003161249.1        QSVTSDGGQEG.........................KEGGRGSITVDDRTNSIIAYQPQERLDELRRIVSQLDIPVRQV   450
NTDB id 1070010 ACIHQS RS14750 WP 404231745.1   EESRDGKGAVSNRT.............ASSDSLALESLLSPRGSAVADTRTNTLIVNDTAVNIDKIRKMIDLLDVSVKQV   444
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
consensus                                           *                               * ****!!****! !!!******** ***  *!*****!!**!*!!

logo

NTDB id 1257 GCO85 RS04855 WP 163621000.1        LIEARIVEVTKDFSQDIGIRWGVSRPTHLSG..TLEGANEL..................ARGTAPANVVPLERRLNLDLAA   495
NTDB id 1284 ACE17W RS12370 WP 010946666.1       LIEARIVEVTKDFSQDIGIRWGVSRPTHLSG..TLEGANEL..................ARGTAPANVVPLERRLNLDLAA   495
NTDB id 1193 PAKAF RS26665 WP 003161249.1        MIEARIVEANVGYDKSLGVRWGGAYHKGNWS....GYGKDGNI.GIKDEDGMNCGPIAGSCTFPTTGTSKSPSPFVDL..   523
NTDB id 1070010 ACIHQS RS14750 WP 404231745.1   MIEARIVRASTDFTKEMGVKWGILSQGITNNNDLLVGGSDTTLWNLREPK...KDDELGGWKYEI...ERPDNLNVDL..   516
NTDB id 1009 ACIAD RS15175 WP 004923730.1        MIEARIVRATTSFSKEMGVKWGILSQGINQNSNLLVGGSETTLWNLRNPD...SN.....GTYTI...ERPDNLNVDL..   515
NTDB id 1052 ABD1 RS15850 WP 001017033.1         MVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPK...KDETTGGYKYTI...ERPDNLNVDL..   528
NTDB id 1039 HON27 RS01460 WP 031993779.1        MVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPK...KDETTGGYKYTI...ERPDNLNVDL..   528
consensus                                        **!!!!!**** *****!**!!****** **  ***************         *  ** *   ********!!

logo

NTDB id 1257 GCO85 RS04855 WP 163621000.1        VPLTGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGAT...AVAF   571
NTDB id 1284 ACE17W RS12370 WP 010946666.1       APLTGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGAT...AVAF   571
NTDB id 1193 PAKAF RS26665 WP 003161249.1        ...GAKDA.TSGIGIGFI.TDNIILDLQLSAMEKTGNGEIVSQPKVVTSDKETAKILKGSEVPYQEASSSGAT...STSF   595
NTDB id 1070010 ACIHQS RS14750 WP 404231745.1   ...GAVTPGASRIAFGLISLSDFMLDLELSAVQADGYGEVISTPKVMTADKQAAKIESGTKIPYTSSSGGGANAVPKTEF   593
NTDB id 1009 ACIAD RS15175 WP 004923730.1        ...GVTTTGASSIAFGLISLSDFMLDLELSALQADGYGEVISTPKVMSADKQKAKVATGVEVPYQSTTNSAAGSTATTSF   592
NTDB id 1052 ABD1 RS15850 WP 001017033.1         ...GVSNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSF   604
NTDB id 1039 HON27 RS01460 WP 031993779.1        ...GVSNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSF   604
consensus                                          ** ****  !***********!!!*!!!****!**!**!*!******** !** *! **!!**** **!    ***!
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logo
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NTDB id 1257 GCO85 RS04855 WP 163621000.1        KKAVLSLKVTPQITPDGKILMDLQINQDTPSPQ.TFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFG   650
NTDB id 1284 ACE17W RS12370 WP 010946666.1       KKAVLSLKVTPQITPDGKILMDLQINQDTPSPQ.TFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFG   650
NTDB id 1193 PAKAF RS26665 WP 003161249.1        KEAALSLEVTPQITPDNRIIVEVKVTKDAPDYQNMLNGVPPINKNEVNAKILVNDGETIVIGGVFSNEQSKSVEKVPFLG   675
NTDB id 1070010 ACIHQS RS14750 WP 404231745.1   IDATLSLDVTPSITPDGKVMMKLNITKDAPSTP.TPTGQLTISKNSIDTNVLVDNGETVVLGGIFEQENISSQTKVPFLG   672
NTDB id 1009 ACIAD RS15175 WP 004923730.1        KEALLSLEVTPNITPDGKILMELNIANDSINSY.AQNGEAILNKNTINTNVLVNNGETVVLGGVFEQTTNNAVTKVPFLG   671
NTDB id 1052 ABD1 RS15850 WP 001017033.1         KDALLSLNVTPSITPDGKIQMKLDISKDSVAGA.APNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFG   683
NTDB id 1039 HON27 RS01460 WP 031993779.1        KDALLSLNVTPSITPDGKIQMKLDISKDSVAGA.APNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFG   683
consensus                                        **!*!!! !!!*!!!!********!**!**       *!    **** *****!!**!*!***!!*****    *****!!*!
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logo
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NTDB id 1257 GCO85 RS04855 WP 163621000.1        ELPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1284 ACE17W RS12370 WP 010946666.1       ELPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1193 PAKAF RS26665 WP 003161249.1        ELPYLGRLFRRDTVTDRKNELLVFLTPRIMNNQAIAIGR.........   714
NTDB id 1070010 ACIHQS RS14750 WP 404231745.1   DIPYIGRLFRRDLKTDNKRELLIFVTPRIVNDTLTRNH..........   710
NTDB id 1009 ACIAD RS15175 WP 004923730.1        DLPYVGRLFKKTAKSEAKNELLIFVTPRIVNDTIVGNH..........   709
NTDB id 1052 ABD1 RS15850 WP 001017033.1         DIPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
NTDB id 1039 HON27 RS01460 WP 031993779.1        DIPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
consensus                                        **!**!*!!***  ***  **!!!*!*!!!!*****   **
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X non conserved

X similar

X $\geq$ 50% conserved