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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 1009 ACIAD RS15175 WP 004923730.1     MKQIIRQFSIGTVAYAIMQVASAQVAITNVVPMNIPGQGTEIRVMFNGLP.PQPQAYQLEQPARLILDFDKAGQKLA..K   77
NTDB id 1039 HON27 RS01460 WP 031993779.1     MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLP.PQPQAYQLENPSRLILDFDKAQQGLK..Q   77
NTDB id 1052 ABD1 RS15850 WP 001017033.1      MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLP.PQPQAYQLENPSRLILDFDKAQQGLK..Q   77
NTDB id 35849 PPUTUW4 RS01775 WP 015093140.1 MNRIFSTFGLSLWIAM.LSPMVQAANLKALDVAALPGDRVELKLSFDAPP.PLPQGYMTESPARIALDLPGVVSQLA..S   76
NTDB id 1193 PA5040 NP 253727.1               MNSGLSRLGIALLAAM.FAPALLAADLEKLDVAALPGDRVELKLQFDEPV.AAPRGYTIEQPARIALDLPGVQNKLG..T   76
consensus                                     !* **  * ** *** ** ***   **  * ** ********** ! *** * !*** ***! !**!!*    * *   *

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1     KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSIYSLVLNGKSNDLFENSK.............EVFITNQV  145
NTDB id 1257 GC085 RS04855 WP 163621000.1     KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSVYSLVLNGKSNDLFENSK.............EVFITNQV  145
NTDB id 1009 ACIAD RS15175 WP 004923730.1     SLIPVTTNEASSIDVSSDDKRARVVVNLKDAGAFTTRVEGNVFILKINNIQSTATPVAT....................SA  138
NTDB id 1039 HON27 RS01460 WP 031993779.1     SKISVATNEASSVDVTSDDQRSRLTVNLKDTGAFTTRVEGNTFILKINSAQTSNKPLPV....................VS  138
NTDB id 1052 ABD1 RS15850 WP 001017033.1      SKISVATNEASSVDVTSDDQRSRLTVNLKDAGAFTTRVEGNTFILKINSAQTSNKPLPV....................VS  138
NTDB id 35849 PPUTUW4 RS01775 WP 015093140.1 KTRDLGSGNARSATVVEAGGRTRLIINLAQSAPYDSRIEGNNLLVVVGQGVKPSAPGPT............APAMPARAA  144
NTDB id 1193 PA5040 NP 253727.1               KNRELSVGNTRSVTVVEAKDRTRLIINLTALSSYTTRVEGNNLFVVVGNSPAGASVASAAPVKASPAPASYAQPIKPKPY  156
consensus                                     *  *** ** * !* **    !*!****!  ** ******!* ******       *

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1     VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV  225
NTDB id 1257 GC085 RS04855 WP 163621000.1     VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV  225
NTDB id 1009 ACIAD RS15175 WP 004923730.1     PAPQQGIGNIGFQRGAQGEGLVVIDLQGINTPVDVQQQGSKVVVRFPGIKIPTHLARRLNTTDFATPVASIDSYNDGSNG  218
NTDB id 1039 HON27 RS01460 WP 031993779.1     .AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVG  217
NTDB id 1052 ABD1 RS15850 WP 001017033.1      .AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVG  217
NTDB id 35849 PPUTUW4 RS01775 WP 015093140.1 ATPGKAIRGVDFQRGTQGEGNVVIDLSDPSIAPDIQQREGKIIVGFAKTRLPEPLRVRLDVKDFATPVQYVKASASGDRA  224
NTDB id 1193 PA5040 NP 253727.1               VPAGRAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASAQSDRT  236
consensus                                          ******!*** ***! !**!**** ***!***** **** ** ***!   ! *!*** !!**!!* * * *** **

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1     RMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKVQG  305
NTDB id 1257 GC085 RS04855 WP 163621000.1     RMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKVQG  305
NTDB id 1009 ACIAD RS15175 WP 004923730.1     VISIQSTGSYEYMAYQAENKLTISLKRPQDN.VRLNSKNNQNYTGKKISLDFQDIEVRRVLQLLADFTNINMVTADSVQG  297
NTDB id 1039 HON27 RS01460 WP 031993779.1     VITIQSSGSYEYMAYQAENKLTISLKRPQDK.NVTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQG  296
NTDB id 1052 ABD1 RS15850 WP 001017033.1      VITIQSSGSYEYMAYQAENKLTISLKRPQDK.NVTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQG  296
NTDB id 35849 PPUTUW4 RS01775 WP 015093140.1 IISIEPGGAFDYSTYQTDSKLTVSVRPATVDDLQKRNAGPQAYSGEKLSLNFQDIDVRSVLQLIADFTNLNLVASDTVQG  304
NTDB id 1193 PA5040 NP 253727.1               SITIEPSGLYDYLVYQTDNRLTVSIKPMTTEDAERRKKDNFAYTGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDTVQG  316
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 1009 ACIAD RS15175 WP 004923730.1     NITLHLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVSELIKSEEDEAKAIAQSTKLAPLQTEYILLKYAKAADIEKLI   377
NTDB id 1039 HON27 RS01460 WP 031993779.1     NITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIMGLI   376
NTDB id 1052 ABD1 RS15850 WP 001017033.1      NITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIMGLI   376
NTDB id 35849 PPUTUW4 RS01775 WP 015093140.1 GITLRLQNVPWDQALDLVLKTKGLDKRKVGNVLLVAPADEIAARERQELESQKQIADLAPLRRELLQVNYAKAADIAKLF   384
NTDB id 1193 PA5040 NP 253727.1               NITLRLQNVPWDQALDLVLKTKGLDKRKLGNVLLVAPADEIAARERQELEAQKQIAELAPLRRELIQVNYAKAADIAKLF   396
consensus                                     *!!!*!***!!!!!!!**!*!**!!!!* !!!***** *** * !******* ** *!*!********!!!!*!!* !*

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1     KDKQ...............................NSLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVKQV   434
NTDB id 1257 GC085 RS04855 WP 163621000.1     KDKQ...............................NSLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVKQV   434
NTDB id 1009 ACIAD RS15175 WP 004923730.1     TQGRNSGTSNSN........TNGSATVEPLGDSVGTLLSPRGTISLDPRTNTLIINDTSQKIDQIRKMIDLLDIPVKQV   448
NTDB id 1039 HON27 RS01460 WP 031993779.1     TQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQVKQV   456
NTDB id 1052 ABD1 RS15850 WP 001017033.1      TQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQVKQV   456
NTDB id 35849 PPUTUW4 RS01775 WP 015093140.1 QSVTSAE...........................AKPDERGSITVDERTNNIIAYQTQDRLDELRRIVTQLDIPVRQV   435
NTDB id 1193 PA5040 NP 253727.1               QSVTSDGGQ..........................EGKEGGRGSITVDDRTNSIIAYQPQERLDELRRIVSQLDIPVRQV   450
consensus                                        *                                **** !!*!**!*!!!******* *****!*** *!!**!*!!

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1     LIEARIVEVTKDFSQDIGIRWGVSRPTH..LSGTLEGANELAR...........GT.APANVVP.....LERRLNLDLAA   495
NTDB id 1257 GC085 RS04855 WP 163621000.1     LIEARIVEVTKDFSQDIGIRWGVSRPTH..LSGTLEGANELAR...........GT.APANVVP.....LERRLNLDLAA   495
NTDB id 1009 ACIAD RS15175 WP 004923730.1     MIEARIVRATTSFSKEMGVKWGILSQGINQNSNLLVGGSETTLWNLRNPDS.N.....GTYTIE.....RPDNLNVDLG.   516
NTDB id 1039 HON27 RS01460 WP 031993779.1     MVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPKK.DETTGGYKYTIE.....RPDNLNVDLG.   529
NTDB id 1052 ABD1 RS15850 WP 001017033.1      MVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPKK.DETTGGYKYTIE.....RPDNLNVDLG.   529
NTDB id 35849 PPUTUW4 RS01775 WP 015093140.1 MIEARIVEANVDYDKSLGVRWGGSIQNRGNWNTSGVSN.................GLNGSSTIGTPGSTSTNSPFVDMG.   497
NTDB id 1193 PA5040 NP 253727.1               MIEARIVEANVGYDKSLGVRWGGAY.HKGNWSGYGKDGN...I.GIKDEDGMNCGPIAGSCTFPTTGTSKSPSPFVDLG.   524
consensus                                     **!!!!!***  *****!**!!*  *   * *  **** *  *  **        * *   **      *   ***!**

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1     APLTGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGA...TAVAF   571
NTDB id 1257 GC085 RS04855 WP 163621000.1     VPLTGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGA...TAVAF   571
NTDB id 1009 ACIAD RS15175 WP 004923730.1     ....VTTTGASSIAFGLISLSDFMLDLELSALQADGYGEVISTPKVMSADKQKAKVATGVEVPYQSTTNSAAGSTATTSF   592
NTDB id 1039 HON27 RS01460 WP 031993779.1     ....VSNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSF   604
NTDB id 1052 ABD1 RS15850 WP 001017033.1      ....VSNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSF   604
NTDB id 35849 PPUTUW4 RS01775 WP 015093140.1 ....VANN.TSGIGIAFI.TDNVLLDLELTAMEKTGNGEIVSQPKVVTSDKETAKILKGTEIPYQEASSSGA...TSVSF   568
NTDB id 1193 PA5040 NP 253727.1               ....AKDA.TSGIGIGFI.TDNIILDLQLSAMEKTGNGEIVSQPKVVTSDKETAKILKGSEVPYQEASSSGA...TSTSF   595
consensus                                         *  *  * *!*** *  ****!!!*!*!** *! *!**!*!*****!!** *! **!!!****!*!   ****!
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logo

NTDB id 1284 ACE17W RS12370 WP 010946666.1     KKAVLSLKVTPQITPDGKILMDLQINQDTPSPQ.TFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFG   650
NTDB id 1257 GC085 RS04855 WP 163621000.1     KKAVLSLKVTPQITPDGKILMDLQINQDTPSPQ.TFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFG   650
NTDB id 1009 ACIAD RS15175 WP 004923730.1     KEALLSLEVTPNITPDGKILMELNIANDSINSY.AQNGEAILNKNTINTNVLVNNGETVVLGGVFEQTTNNAVTKVPFLG   671
NTDB id 1039 HON27 RS01460 WP 031993779.1     KDALLSLNVTPSITPDGKIQMKLDISKDSVAGA.APNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFG   683
NTDB id 1052 ABD1 RS15850 WP 001017033.1      KDALLSLNVTPSITPDGKIQMKLDISKDSVAGA.APNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFG   683
NTDB id 35849 PPUTUW4 RS01775 WP 015093140.1 KEASLSLEVTPQITPDNRIIMEVKVTKDEPDYLNKVQDVPPIKKNEVNAKVLVNDGETIVIGGVFSNTQSKVVDKVPFLG   648
NTDB id 1193 PA5040 NP 253727.1               KEAALSLEVTPQITPDNRIIVEVKVTKDAPDYQNMLNGVPPINKNEVNAKILVNDGETIVIGGVFSNEQSKSVEKVPFLG   675
consensus                                     !*!*!!!  !!!*!!!!**!**** ***!**      ****  **********!!**!*!***!!** **   * *  **!!*!

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NTDB id 1284 ACE17W RS12370 WP 010946666.1     ELPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1257 GC085 RS04855 WP 163621000.1     ELPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1009 ACIAD RS15175 WP 004923730.1     DLPYVGRLFKKTAKSEAKNELLIFVTPRIVNDTIVGNH..........   709
NTDB id 1039 HON27 RS01460 WP 031993779.1     DIPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
NTDB id 1052 ABD1 RS15850 WP 001017033.1      DIPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
NTDB id 35849 PPUTUW4 RS01775 WP 015093140.1 DVPYLGRLFRRDVVSEKKSELLVFLTPRIMNNQAIAVSH.........   687
NTDB id 1193 PA5040 NP 253727.1               ELPYLGRLFRRDTVTDRKNELLVFLTPRIMNNQAIAIGR.........   714
consensus                                     **!**!*!!*** ******!!!*!*!!!!*** *
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X non conserved

X similar

X ≥ 50% conserved