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logo
NTDB id 1122391 EL239 RS04640 WP 058482982.1  MRKIITSSLLL.LVICFGHVFAKDNALVGVKVIPLPDNRIRVDFQFADAVKQLPASFITPKPPRIILDFIQSSNQLDPSL   79
NTDB id 1257 GC085 RS04855 WP 163621000.1     MRKIIA.ILIL.ISASLSLAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ   78
NTDB id 1284 ACE17W RS12370 WP 010946666.1    MRKIIA.ILIL.ISASLSMAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ   78
NTDB id 1193 PAKAF RS26665 WP 003161249.1     MNSGLSRLGIALLAA.MFAPALLAADLEKLDVAALPGDRVELKLQFDEPVA.APRGYTIEQPARIALDLPGVQNKLGTKN   78
NTDB id 1009 ACIAD RS15175 WP 004923730.1     MKQIIRQFSIGTVAYAIMQVASAQVAITNVVPMNIPGQGTEIRVMFNGLPP.QPQAYQLEQPARLILDFDKAGQKLAKSL   79
NTDB id 1039 HON27 RS01460 WP 031993779.1     MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGLKQSK   79
NTDB id 1052 ABD1 RS15850 WP 001017033.1      MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGLKQSK   79
consensus                                     !* **    ** **  *  ***   **  * ** ***********!   *   ! ** ***! !**!!*    * *  *

logo
NTDB id 1122391 EL239 RS04640 WP 058482982.1  QSKKIEVGALRNYKIVAVKDRVRAILDLSDSVSYSGYLSNKIYSITLSGKSNQIFQNR.............KEVFISNRV  146
NTDB id 1257 GC085 RS04855 WP 163621000.1     KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSVYSLVLNGKSNDLFENS.............KEVFITNQV  145
NTDB id 1284 ACE17W RS12370 WP 010946666.1    KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSIYSLVLNGKSNDLFENS.............KEVFITNQV  145
NTDB id 1193 PAKAF RS26665 WP 003161249.1     ..RELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNNLFVVVGNSPAGASVASTAPVKASPAPASYAQPIKPKPY  156
NTDB id 1009 ACIAD RS15175 WP 004923730.1     ..IPVTTNEASSIDVSSDDKRARVVVNLKDAGAFTTRVEGNVFILKINNIQSTAT..........PVAT..SA.......  138
NTDB id 1039 HON27 RS01460 WP 031993779.1     ..ISVATNEASSVDVTSDDQRSRLTVNLKDTGAFTTRVEGNTFILKINSAQTSNK..........PLPV..VS.......  138
NTDB id 1052 ABD1 RS15850 WP 001017033.1      ..ISVATNEASSVDVTSDDQRSRLTVNLKDAGAFTTRVEGNTFILKINSAQTSNK..........PLPV..VS.......  138
consensus                                       *** **   ** **   *! !****! ** ********** * **                    *

logo
NTDB id 1122391 EL239 RS04640 WP 058482982.1  PRTRYGINKIDFRGTGKGGGRVIIDVSGSSIPIDVTQTGKEVVVNFTSTGVPLRLAKRYDVSDFQSPAELITLQQAGKNA  226
NTDB id 1257 GC085 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 1009 ACIAD RS15175 WP 004923730.1     PAPQQGIGNIGFQRGAQGEGLVVIDLQGTNTPVDVQQQGSKVVVRFPGIKIPTHLARRLNTTDFATPVASIDSYNDGSNG  218
NTDB id 1039 HON27 RS01460 WP 031993779.1     .AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVG  217
NTDB id 1052 ABD1 RS15850 WP 001017033.1      .AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVG  217
consensus                                         ** *!*!*** ***! !**!**** ***!****! **** ** ***!  !**!***!!**!*  *   ***  *

logo
NTDB id 1122391 EL239 RS04640 WP 058482982.1  RLTIVNRGDYGHFAYQVNKQFIVDVFPLTAEEIKRAKLKKQIFVGKRISLNFQNIKIRSVLQLLAEFTGINMVVSDQVQG  306
NTDB id 1257 GC085 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 1009 ACIAD RS15175 WP 004923730.1     VISIQSTGSYEYMAYQAENKLTISLKRPQDNV.RLNSKNNQNYTGKKISLDFQDIEVRRVLQLLADFTNINMVTADSVQG  297
NTDB id 1039 HON27 RS01460 WP 031993779.1     VITIQSSGSYEYMAYQAENKLTISLKRPQDKN.VTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQG  296
NTDB id 1052 ABD1 RS15850 WP 001017033.1      VITIQSSGSYEYMAYQAENKLTISLKRPQDKN.VTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQG  296
consensus                                      **! **! !****!! *********** ** *  * * * **!***!!*!!*!**! !!!!*!*!!**!*! *!*!!!
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logo

NTDB id 1122391 EL239 RS04640 WP 058482982.1  DITLRLNDIPWDQALDIILKTNSLDKRKTGNIMLIAPAKELLNQEKAELKAQQEVTSLAPLRSDLLQINYAKAADIATLL  386
NTDB id 1257 GC085 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 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
consensus                                     *!!!*!***!!!!!!!**!*!* !!!!* !!****** ***** !******* ** *!*!********!!!!*!!* !*

logo

NTDB id 1122391 EL239 RS04640 WP 058482982.1  KDKNN...............................SLLSKRGNLSVDTRTNTIWIQDTGLQIEEIRELVKKLDIPVKQV  435
NTDB id 1257 GC085 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 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
consensus                                        *                                 **** !!****! !!!********* *****!***  !!**!*!!

logo

NTDB id 1122391 EL239 RS04640 WP 058482982.1  QIEARIVNVTKDFTRDLGIREGVSKPTHL.SGT.LSGANQL..................AQNVLPADVTPFTDRLNLDLAA  496
NTDB id 1257 GC085 RS04855 WP 163621000.1     LIEARIVEVTKDFSQDIGIRWGVSRPTHL.SGT.LEGANEL..................ARGTAPANVVPLERRLNLDLAA  495
NTDB id 1284 ACE17W RS12370 WP 010946666.1    LIEARIVEVTKDFSQDIGIRWGVSRPTHL.SGT.LEGANEL..................ARGTAPANVVPLERRLNLDLAA  495
NTDB id 1193 PAKAF RS26665 WP 003161249.1     MIEARIVEANVGYDKSLGVRWGGAYHKGNWSG....YGKDGN.IGIKDEDGMNCGPIAGSCTFPTTGTSKSPSPFVDLGA  525
NTDB id 1009 ACIAD RS15175 WP 004923730.1     MIEARIVRATTSFSKEMGVKWGILSQGINQNSNLLVGGSETTLWNLRNPD...SN.....GTYTI...ERPDNLNVDLGV  517
NTDB id 1039 HON27 RS01460 WP 031993779.1     MVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPK...KDETTGGYKYTI...ERPDNLNVDLGV  530
NTDB id 1052 ABD1 RS15850 WP 001017033.1      MVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPK...KDETTGGYKYTI...ERPDNLNVDLGV  530
consensus                                     **!!!!! **  *****!***!*       **  * ** *     **           *  ***     * * ***!!**

logo

NTDB id 1122391 EL239 RS04640 WP 058482982.1  VP.EGLAPASIGLAVARLGDGILLDLELSALESEGKGEVISSPRLITTNQQAAVIESGEEIPYQEATSSGA...TAVAFK  572
NTDB id 1257 GC085 RS04855 WP 163621000.1     VPLTGATPASVGIALAKLNDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGA...TAVAFK  572
NTDB id 1284 ACE17W RS12370 WP 010946666.1    APLTGATPASVGIALAKLNDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGA...TAVAFK  572
NTDB id 1193 PAKAF RS26665 WP 003161249.1     KD...A.TSGIGIGFI..TDNIILDLQLSAMEKTGNGEIVSQPKVVTSDKETAKILKGSEVPYQEASSSGA...TSTSFK  596
NTDB id 1009 ACIAD RS15175 WP 004923730.1     TT...TGASSIAFGLIS.LSDFMLDLELSALQADGYGEVISTPKVMSADKQKAKVATGVEVPYQSTTNSAAGSTATTSFK  593
NTDB id 1039 HON27 RS01460 WP 031993779.1     SN...P.AGSIAFGLIS.MSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSFK  605
NTDB id 1052 ABD1 RS15850 WP 001017033.1      SN...P.AGSIAFGLIS.MSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSFK  605
consensus                                        ********   * **!!!*!!!** *! *!**!*!******** !** *! **!!!****!*!   ****!!
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logo
NTDB id 1122391 EL239 RS04640 WP 058482982.1  KAVLSLKVTPQITPDDKILMDLQINQDTPSA.QTFQGVPSILTKEIQTNVLVNNGQTIVLGGIYKQTKNNEINRVPFLGE   651
NTDB id 1257 GC085 RS04855 WP 163621000.1     KAVLSLKVTPQITPDGKILMDLQINQDTPSP.QTFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFGE   651
NTDB id 1284 ACE17W RS12370 WP 010946666.1    KAVLSLKVTPQITPDGKILMDLQINQDTPSP.QTFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFGE   651
NTDB id 1193 PAKAF RS26665 WP 003161249.1     EAALSLEVTPQITPDNRIIVEVKVTKDAPDYQNMLNGVPPINKNEVNAKILVNDGETIVIGGVFSNEQSKSVEKVPFLGE   676
NTDB id 1009 ACIAD RS15175 WP 004923730.1     EALLSLEVTPNITPDGKILMELNIANDSINS.YAQNGEAILNKNTINTNVLVNNGETVVLGGVFEQTTNNAVTKVPFLGD   672
NTDB id 1039 HON27 RS01460 WP 031993779.1     DALLSLNVTPSITPDGKIQMKLDISKDSVAG.AAPNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFGD   684
NTDB id 1052 ABD1 RS15850 WP 001017033.1      DALLSLNVTPSITPDGKIQMKLDISKDSVAG.AAPNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFGD   684
consensus                                     *!*!!! !!!*!!!!**!******* *!**   *  *!** ***********!!**!*!***!!** ** ** * **!!*!*

logo
NTDB id 1122391 EL239 RS04640 WP 058482982.1  LPVVGVLFRNQSETINNEELLIFITPRIITNTLSITTIEGRGKAVAKGVELDKFGKPVRPYK   713
NTDB id 1257 GC085 RS04855 WP 163621000.1     LPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK...............   698
NTDB id 1284 ACE17W RS12370 WP 010946666.1    LPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK...............   698
NTDB id 1193 PAKAF RS26665 WP 003161249.1     LPYLGRLFRRDTVTDRKNELLVFLTPRIMNNQAIAIGR........................   714
NTDB id 1009 ACIAD RS15175 WP 004923730.1     LPYVGRLFKKTAKSEAKNELLIFVTPRIVNDTIVGNH.........................   709
NTDB id 1039 HON27 RS01460 WP 031993779.1     IPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH.........................   721
NTDB id 1052 ABD1 RS15850 WP 001017033.1      IPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH.........................   721
consensus                                     *!**!*!!**   ** **!!!*!*!!!!*****
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X non conserved

X similar

X ≥ 50% conserved