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NTDB id 1073 ABD1 RS00865 WP 015451369.1     MLTQLSSHHYHTLKVWYLVQHSLVSFKKIIDYFGNCEKATQPDGLAKWSSLGLHANHLKRVNEFQTTQ.GQAQFEQLVQQ   79
NTDB id 1043 HON27 RS16615 WP 168727007.1    MLTQLSSHQYHTLKVWYLVQHSLVSFKKIIDYFGNCEKATQPDGLAKWSSLGLHANHLKRVNEFQTPQ.GQAQFEQLVQQ   79
NTDB id 1021 ACIAD RS00975 WP 004930462.1    MITILSSHHYHTIKVWYVLQHSLSGFKKLIHYFGDCETALQPQRLSDWQKLGLHANHLKRLEEVHTLQ.GQQQFEKMLAQ   79
NTDB id 1094 KZH42 RS01320 WP 002224767.1    ...MTEDERFAWLQLAFTPYIGAESFLLLMRRFGSAQNALSAP.AEQVAALIRHKQALEAWRNAEKRALARQAAEAALEW   76
NTDB id 1089 NMB RS00600 WP 002224767.1      ...MTEDERFAWLQLAFTPYIGAESFLLLMRRFGSAQNALSAP.AEQVAALIRHKQALEAWRNAEKRALARQAAEAALEW   76
NTDB id 1122 OK783 RS09595 WP 003705341.1    ...MTEDERFAWLQLAFTPYIGAESFLLLMRSFGSAQNALSAP.AEQVAPAVRHKHALEAWRNAEKRALARQAAEAALEW   76
NTDB id 1120 NGFG RS10355 WP 020997408.1     ...MTEDERFAWLQLAFTPYIGAESFLLLMRSFGSAQNALSAP.AEQVAPAVRHKHALEAWRNAEKRALARQAAEAALEW   76
NTDB id 1250 GCO85 RS13065 WP 027219989.1    .....MNNLQPLLALNRMKRIGPRTVLKLQKRWPDLNLMFQLS.SVDL.....EEAGLPSWLAQTIKNFDPDFIKTDLNW   69
NTDB id 1399 DSB67 RS15600 WP 010645755.1    MTPQNDIDLAAWLKLSCLPGIGGVKMNKLLSKDT.PSNIVQYS.TEQLQLLGLTAKQLQAW.SQ.....VDKEVDACLTW   72
NTDB id 167879 AL543 RS10515 WP 061051863.1  ...MKDQDLATWLALCFTPKLGSRTISHLLSTQT.PTQLQSFT.PKQWLALGLKPEQLVYLTTQ.....ATKQAEQCLQW   70
NTDB id 1152 A1552VC RS00200 WP 000654772.1  ...MKDQDLAAWLALCFTPKLGSKTISHLLATRL.PAQLQSFT.PKQWLACGLKPEQLVFLTTQ.....AAKQAEQCLQW   70
NTDB id 1388 A4U84 RS04945 WP 062924099.1    .....MTHLTKLLALLQVPQLGAQRIGRLLSEVD.FGEFCQYD.KTALKQMGWNERQIQRWFNP.....EHKWIDQALQW   68
NTDB id 1361 HI 0985 AAC22646.1              ....MNDITYTLLRLMQVPKLGGVGIDKILSNIT.LNELLNYD.DVAFRQMGWGAIQIRRWFKP.....EAKFIEPALVW   69
consensus                                              *  *  *  *  **  *   **  *                 **      *  *         *   *  *  *
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NTDB id 1073 ABD1 RS00865 WP 015451369.1     .VRQHTDFILTPDDSGYPTQLLPYTDHPPIIFGKGQAQALLQPQIAIVGSRKPSPHGRQVAYDFAYYLSEKGFFISSGLA   158
NTDB id 1043 HON27 RS16615 WP 168727007.1    .VRQHTDFILTPDDSGYPTQLLPYTDHPPIIFGKGQAQALLQPQIAIVGSRKPSPHGRQVAYDFAYYLSEKGFFISSGLA   158
NTDB id 1021 ACIAD RS00975 WP 004930462.1    .LQTHTDFIVTPDDPAYPSQLIPYQDRPPILFGQGSIQSLIQPQIAVVGSRKPSPHGRQVAYDFSYFLSEKGFYITSGLA   158
NTDB id 1094 KZH42 RS01320 WP 002224767.1    EMRDG.CRLMLLQDEDFPEMLTQGLTAPPVLFLRGNVQLLHKPSAAIVGSRHATPQAMRIAKDFGKSLGGKGIPVVSGMA   155
NTDB id 1089 NMB RS00600 WP 002224767.1      EMRDG.CRLMLLQDEDFPEMLTQGLTAPPVLFLRGNVQLLHKPSAAIVGSRHATPQAMRIAKDFGKSLGGKGIPVVSGMA   155
NTDB id 1122 OK783 RS09595 WP 003705341.1    EMRDG.CRLMLLQDEDFPEMLTQGLTAPPVLFLRGNVRLLHKPSAAIVGSRHATPQAMRIAKDFGRALGGKGIPTVSGMA   155
NTDB id 1120 NGFG RS10355 WP 020997408.1     EMRDG.CRLMLLQDEDFPEMLTQGLTAPPVLFLRGNVRLLHKPSAAIVGSRHATPQAMRIAKDFGRALGGKGIPTVSGMA   155
NTDB id 1250 GCO85 RS13065 WP 027219989.1    LSSSENHHILTWDSPYYPALLKEIADPPFILYAKGELSALTQPSLAIVGSRNASVTGNENARAFSREISRHGVSIVSGLA   149
NTDB id 1399 DSB67 RS15600 WP 010645755.1    VAASSHHHILTLADALYPPLLKQTVAPPLLFVKGEASCLPQPQIAMVGSRNASVDGLQHTRTFASDLVQHDLIVTSGLA   152
NTDB id 167879 AL543 RS10515 WP 061051863.1  RDGAKNRYIVTPHCPLYPRLLKEISVPPPVLFIEGLWEVLHDPAVAIVGSRNATIDGRQIARQFAGELVQSGLVVMSGLA   150
NTDB id 1152 A1552VC RS00200 WP 000654772.1  RSAANNRYIVTPHCPLYPRLLKEINSSPPVLFIEGIWEAVHDPAVAIVGSRNASVDGRQIARQFATELAQSGLVVTSGLA   150
NTDB id 1388 A4U84 RS04945 WP 062924099.1    AEQDQ.QQILTLFDEDYPFLLKQISTAPPVLFVRGNVESLSLPQIAIVGSRDYSHYGEHWAGHFSAELVKHQLAVTSGLA   147
NTDB id 1361 HI 0985 AAC22646.1              SQKEG.NHLVNYFSPFYPFLLKQTASFPPLLFVKGNLTALSQRQMAMVGSRYCTTYGEYWAKHFATELSLAGFTITSGLA   148
consensus                                          ***  *  *! *!     !******!**  *  * *!*!!!! **  *  *** !*  *   ** * !!*!
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NTDB id 1073 ABD1 RS00865 WP 015451369.1     YGIDEAAHQGASA.HQRTIAVTGTGLDTTYPAQNKKLAEYILAQNGAIITEFLPGTPPLQQHFPRRNRIVSGLSLGVLVV   237
NTDB id 1043 HON27 RS16615 WP 168727007.1    YGIDEAAHQGAST.HQRTIAVTGTGLDTTYPAQNKKLAEHILAKNGAIITEFLPGTPPLQQHFPRRNRIVSGLSLGVLVV   237
NTDB id 1021 ACIAD RS00975 WP 004930462.1    HGIDEAAHQGSLV.HHRAIAVVGTGLDLCYPSGNKALKQHIRDQGGAIVSEFLPGTPPLQAHFPRRNRIVSGLSLGVLVV   237
NTDB id 1094 KZH42 RS01320 WP 002224767.1    SGIDTAAHQGALQAEGGTIAVWGTGIDRIYPPVNKNLAYEIA.EKGLIVSEFPIGTRPYAGNFPRRNRLIAALSQVTLVV   234
NTDB id 1089 NMB RS00600 WP 002224767.1      SGIDTAAHQGALQAEGGTIAVWGTGIDRIYPPVNKNLAYEIA.EKGLIVSEFPIGTRPYAGNFPRRNRLIAALSQVTLVV   234
NTDB id 1122 OK783 RS09595 WP 003705341.1    SGIDTAAHQGALEAEGGTVAVWGTGIDRIYPPANKNLAYEIA.EKGLIVSEFPIGTRPYAGNFPRRNRLIAALSQVTLVV   234
NTDB id 1120 NGFG RS10355 WP 020997408.1     SGIDTAAHQGALEAEGGTIAVWGTGIDRIYPPANKNLAYEIA.EKGLIVSEFPIGTRPYAGNFPRRNRLIAALSQVTLVV   234
NTDB id 1250 GCO85 RS13065 WP 027219989.1    LGIDAHAHLGCLEGGGKTIAVLGTGIDCIYPRRHLKLAEQIT.ENGLLLSEFPLKSPPIAGHFPLRNRIISGLSLCILVI   228
NTDB id 1399 DSB67 RS15600 WP 010645755.1    LGIDGHAHDGALLAGGKTIAVLGSGLEQVYPARHRGLAQRVA.ENGALVSEFRPDAKPRAENFPRRNRIISGLSLGVLVV   231
NTDB id 167879 AL543 RS10515 WP 061051863.1  LGIDGHAHDGALQAQGQTVAVLGSGLTQIYPKQHQGLAERII.TQGALVSEFAPYVPPKADHFPRRNRIISGLSLGVVVV   229
NTDB id 1152 A1552VC RS00200 WP 000654772.1  LGIDGYAHDGALQAQGQTVAVLGSGLAQVYPKQHQGLAERII.AQGALVSEFAPHTPPKADHFPRRNRIISGLSLGVVVV   229
NTDB id 1388 A4U84 RS04945 WP 062924099.1    IGIDGFCHQRAANENGITIAVLGSGLDQVYPARHKKLAEQIVETSGALVSEFFPSQPPIAENFPRRNRIISGLSLGTLVI   227
NTDB id 1361 HI 0985 AAC22646.1              LGIDGHCHQAVVNIQGQTIAVLGSGLEQIYPSKHQRLSAQIIENNGALVSEFLPNQAPIAANFPRRNRIISGLSVGTLVV   228
consensus                                     !!!  *!**** * * **!! !*!** *!!   * !*  *    !****!! * * ! *  !!*!!!****!!** *!*
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NTDB id 1073 ABD1 RS00865 WP 015451369.1     EATLKSGSLITANKAAEQGKTVFAIPGHIYSEFHQGCHQLIREGAILIDHPEQIIEDLALPTQWQSQQ.QNQT.......   309
NTDB id 1043 HON27 RS16615 WP 168727007.1    EATLKSGSLITANKAAEQGKTVFAIPGHIYSEFHQGCHQLIREGAILIDHPEQIIEDLALPTQWQSQQ.QNQT.......   309
NTDB id 1021 ACIAD RS00975 WP 004930462.1    EATLKSGSLITANKAAEQGKVVFAIPGHIYSEFHQGCHQLIREGAILVDHPEQIIEDLALPTHWHSQS.TASGEANA...   313
NTDB id 1094 KZH42 RS01320 WP 002224767.1    EAALESGSLITARLAAEMGREVMAVPGSIDNPHSKGCHKLIKDGAKLVECLDDILNECPGLLQNTGAS...SYSINKGIP   311
NTDB id 1089 NMB RS00600 WP 002224767.1      EAALESGSLITARLAAEMGREVMAVPGSIDNPHSKGCHKLIKDGAKLVECLDDILNECPGLLQNTGAS...SYSINKGIP   311
NTDB id 1122 OK783 RS09595 WP 003705341.1    EAALESGSLITAGLAAEMGREVMAVPGSIDNPHSKGCHKLIKDGAKLTECLDDILNECPGLLQNTGAS...SYSINKDTP   311
NTDB id 1120 NGFG RS10355 WP 020997408.1     EAALESGSLITAGLAAEMGREVMAVPGSIDNPHSKGCHKLIKDGAKLTECLDDILNECPGLLQNTGAS...SYSINKDTP   311
NTDB id 1250 GCO85 RS13065 WP 027219989.1    EAAIKSGSLITARMALEQNRDVLAIPGSIHNPLARGCHYLLQQGAKLVTSVADVLDELKIEHHQF.............   293
NTDB id 1399 DSB67 RS15600 WP 010645755.1    EAAEKSGSLITARYALEQGREVFALPASINAPNASGGNQLIQNGACLVQNTQEVLNEIQSLL.........DWSIN....   298
NTDB id 167879 AL543 RS10515 WP 061051863.1  EAAEKSGSLITARYAAEQGREVFVVPGSIYNASSQGSNQLIRQGACLVQSVQQIHQELKNAL.........TWSLS....   296
NTDB id 1152 A1552VC RS00200 WP 000654772.1  EAAEKSGSLITARYAAEQGREVFVVPGSIFNAASQGSNQLIRQGACLVQSVQQIHQELKNAL.........TWSLS....   296
NTDB id 1388 A4U84 RS04945 WP 062924099.1    EATVNSGSLITARYALEQGREVFALPNSVQNPYSEGCHKLIKEGALLVENVEDILEAIAWQRQSVHIQPSL.FDTKP...   303
NTDB id 1361 HI 0985 AAC22646.1              EATEKSGSLITARYALEQNREVFAVPGNIQNKSSQGCHRLIKQGAMLVENAKDILETLYQHS..IHSQTEIDFDQIA.VP   305
consensus                                    !!***!!!!!!!* !*!****!***!*** *  * !** !***!! !** ***** **           *
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NTDB id 1073 ABD1 RS00865 WP 015451369.1     ..........EEAN.......TNTPEIREHLIDLYQSLDWVGQNIDQLVVHHNIPVSELTSSLMELELLGLCMQQSGLY   371
NTDB id 1043 HON27 RS16615 WP 168727007.1    ..........EETN.......TNTPEIPEHLIDLYQSLDWVGQNIDQLVVHHNIPVSELTSSLMELELLGLCMQQSGLY   371
NTDB id 1021 ACIAD RS00975 WP 004930462.1    ..........DDSGK.......TDDADLPDDLLPLYQLLDWQGQDLDQLAQHYQGSTAELTAQLMELELLGVCIQQSGRY   376
NTDB id 1094 KZH42 RS01320 WP 002224767.1    EKRITAVQTASDQLSLPEGKMPSEKTENRPVGGSILDRMGFDPVHPDVLAGQLAMPAADLYAALLELELDGSVAAMPGGR   391
NTDB id 1089 NMB RS00600 WP 002224767.1      EKRITAVQTASDQLSLPEGKMPSEKTENRPVGGSILDRMGFDPVHPDVLAGQLAMPAADLYAALLELELDGSVAAMPGGR   391
NTDB id 1122 OK783 RS09595 WP 003705341.1    DTGRRAVQTAY..APPPAAKMPSEGAAGGTAVGGILDKMGFDPVHPDVLAGQLAMPAADLYAALLELELDGSVAAMPGGR   389
NTDB id 1120 NGFG RS10355 WP 020997408.1     DTGRRTVQTAY..APPPAAKMPSEGAAGGTAVGGILDKMGFDPIHPDVLAGQLAMPAADLYAALLELELDGSVAAMPGGR   389
NTDB id 1250 GCO85 RS13065 WP 027219989.1    ..............TSNKPIFSL.....ASGKENLVKFIGFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGY   354
NTDB id 1399 DSB67 RS15600 WP 010645755.1    ..........QS....LDLFSAPIDEEELPFPQLLANVGNEATPVDILASRTNIPVQEVMMQLLELELSGHVVAVSGGY   363
NTDB id 167879 AL543 RS10515 WP 061051863.1  ..........ERVPYQATLFSAPQSDEELPFPELLANVGVEATPIDILASRTHIPVQDVMMQLLELELLGHVVAVPGGY   365
NTDB id 1152 A1552VC RS00200 WP 000654772.1  ..........EQVPYQATLFSAVQSDEELPFPELLANVGIEATPIDILASRTQIPVQDIMMQLLELELLGHVVAVPGGY   365
NTDB id 1388 A4U84 RS04945 WP 062924099.1    ..........KQAVKSEPKFAKNLPELTACQQQLFEQISLEPISVDDLAKATDMAVETALIELLNLELLGVVKQVRGGY   372
NTDB id 1361 HI 0985 AAC22646.1              ..........NYTPPPDPR...RL.VEAPSHPKLYSRIGYTPVSIDDLAEEFNLSVDVLLVQLLDLELQDLIISENGLY   370
consensus                                                 *        **   ****    *! **     *** **    !**!!! * **** !**
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NTDB id 1073 ABD1 RS00865 WP 015451369.1     LRCRS..   376
NTDB id 1043 HON27 RS16615 WP 168727007.1    LRCRS..   376
NTDB id 1021 ACIAD RS00975 WP 004930462.1    LRCRSPY   383
NTDB id 1094 KZH42 RS01320 WP 002224767.1    YQRIRT.   397
NTDB id 1089 NMB RS00600 WP 002224767.1      YQRIRT.   397
NTDB id 1122 OK783 RS09595 WP 003705341.1    YQRIRT.   395
NTDB id 1120 NGFG RS10355 WP 020997408.1     YQRIRT.   395
NTDB id 1250 GCO85 RS13065 WP 027219989.1    IRCEYER   361
NTDB id 1399 DSB67 RS15600 WP 010645755.1    IRKGRG.   369
NTDB id 167879 AL543 RS10515 WP 061051863.1  IRKGRG.   371
NTDB id 1152 A1552VC RS00200 WP 000654772.1  IRKGRG.   371
NTDB id 1388 A4U84 RS04945 WP 062924099.1    VIT....   375
NTDB id 1361 HI 0985 AAC22646.1              KRV....   373
consensus                                    **
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X non conserved
X similar
X $\geq$ 50% conserved