```
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1094 KZH42 RS01320 WP 002224767.1      ...MTEDERFAWLQLAFTPYIGAESFLLLMRRFGSAQNALSAPAEQVAALIRHKQALEAWRNAEKRALARQAAEAALEWE    77
NTDB id 1089 NMB RS00600 WP 002224767.1        ...MTEDERFAWLQLAFTPYIGAESFLLLMRRFGSAQNALSAPAEQVAALIRHKQALEAWRNAEKRALARQAAEAALEWE    77
NTDB id 1120 NGFG RS10355 WP 020997408.1       ...MTEDERFAWLQLAFTPYIGAESFLLLMRSFGSAQNALSAPAEQVAPAVRHKHALEAWRNAEKRALARQAAEAALEWE    77
NTDB id 1122 OK783 RS09595 WP 003705341.1      ...MTEDERFAWLQLAFTPYIGAESFLLLMRSFGSAQNALSAPAEQVAPAVRHKHALEAWRNAEKRALARQAAEAALEWE    77
NTDB id 1250 GC085 RS13065 WP 027219989.1      .....MNNLQPLLALNRMKRIGPRTVLKLQKRWPDLNLMFQLSSVDLEEAGLPSWLAQTIKNFD.....PDFIKTDLNWL    70
NTDB id 1158761 QOS47 RS00050 WP 283596704.1   ...MTETELIAWLQLAAVPSLGGSRIQRLLADS.TPQQLAAMTVEQLQQRGLTAKQIQAFLQPN.....QSRIQQALQWQ    71
NTDB id 1399 DSB67 RS15600 WP 010645755.1      MTPQNDIDLAAWLKLSCLPGIGGVKMNKLLSKD.TPSNIVQYSTEQLQLLGLTAKQLQAW.SQV.....DKEVDACLTWV    73
NTDB id 1152 A1552VC RS00200 WP 000654772.1    ...MKDQDLAAWLALCFTPKLGSKTISHLLATR.LPAQLQSFTPKQWLACGLKPEQLVFLTTQA.....AKQAEQCLQWR    71
NTDB id 1388 A4U84 RS04945 WP 062924099.1      .....MTHLTKLLALLQVPQLGAQRIGRLLSEV.DFGEFCQYDKTALKQMGWNERQIQRWFNPE.....HKWIDQALQWA    69
NTDB id 1361 HI 0985 AAC22646.1                ....MNDITYTLLRLMQVPKLGGVGIDKILSNI.TLNELLNYDDVAFRQMGWGAIQIRRWFKPE.....AKFIEPALVWS    70
consensus                                         *********!*!**** *!* ******* * * *****   ***  **    ** **** *         ****! !
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1094 KZH42 RS01320 WP 002224767.1      MRD.GCRLMLLQDEDFPEMLTQGLTAPPVLFLRGNVQLLHKPSAAIVGSRHATPQAMRIAKDFGKSLGGKGIPVVSGMAS   156
NTDB id 1089 NMB RS00600 WP 002224767.1        MRD.GCRLMLLQDEDFPEMLTQGLTAPPVLFLRGNVQLLHKPSAAIVGSRHATPQAMRIAKDFGKSLGGKGIPVVSGMAS   156
NTDB id 1120 NGFG RS10355 WP 020997408.1       MRD.GCRLMLLQDEDFPEMLTQGLTAPPVLFLRGNVRLLHKPSAAIVGSRHATPQAMRIAKDFGRALGGKGIPTVSGMAS   156
NTDB id 1122 OK783 RS09595 WP 003705341.1      MRD.GCRLMLLQDEDFPEMLTQGLTAPPVLFLRGNVRLLHKPSAAIVGSRHATPQAMRIAKDFGRALGGKGIPTVSGMAS   156
NTDB id 1250 GC085 RS13065 WP 027219989.1      SSSENHHILTWDSPYYPALLKEIADPPFILYAKGELSALTQPSLAIVGSRNASVTGNENARAFSREISRHGVSIVSGLAL   150
NTDB id 1158761 QOS47 RS00050 WP 283596704.1   HAP.QQHILTLTSPHYPHLLKQIASPPPILFVRGDVACLGAPQIAVIGSRSASIDGRESAFHFSKALAANHYVVTSGLAL   150
NTDB id 1399 DSB67 RS15600 WP 010645755.1      AASSHHHILTLADALYPPLLKQTVAPPPLLFVKGEASCLPQPQIAMVGSRNASVDGLQHTRTFASDLVQHDLIVTSGLAL   153
NTDB id 1152 A1552VC RS00200 WP 000654772.1    SAANNRYIVTPHCPLYPRLLKEINSSPPVLFIEGIWEAVHDPAVAIVGSRNASVDGRQIARQFATELAQSGLVVTSGLAL   151
NTDB id 1388 A4U84 RS04945 WP 062924099.1      EQD.QQQILTLFDEDYPFLLKQISTAPPVLFVRGNVESLSLPQIAIVGSRDYSHYGEHWAGHFSAELVKHQLAVTSGLAI   148
NTDB id 1361 HI 0985 AAC22646.1                QKE.GNHLVNYFSPFYPFLLKQTASFPPLLFVKGNLTALSQRQMAMVGSRYCTTYGEYWAKHFATELSLAGFTITSGLAL   149
consensus                                       ** *  **** ****! *!** ***!**!***!**  ** ***!**!!! **  ** *** !****** ** * !!*!*
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1094 KZH42 RS01320 WP 002224767.1      GIDTAAHQGALQAEGGTIAVWGTGIDRIYPPVNKNLAYEIAE.KGLIVSEFPIGTRPYAGNFPRRNRLIAALSQVTLVVE   235
NTDB id 1089 NMB RS00600 WP 002224767.1        GIDTAAHQGALQAEGGTIAVWGTGIDRIYPPVNKNLAYEIAE.KGLIVSEFPIGTRPYAGNFPRRNRLIAALSQVTLVVE   235
NTDB id 1120 NGFG RS10355 WP 020997408.1       GIDTAAHQGALEAEGGTIAVWGTGIDRIYPPANKNLAYEIAE.KGLIVSEFPIGTRPYAGNFPRRNRLIAALSQVTLVVE   235
NTDB id 1122 OK783 RS09595 WP 003705341.1      GIDTAAHQGALEAEGGTVAVWGTGIDRIYPPANKNLAYEIAE.KGLIVSEFPIGTRPYAGNFPRRNRLIAALSQVTLVVE   235
NTDB id 1250 GC085 RS13065 WP 027219989.1      GIDAHAHLGCLEGGGKTIAVLGTGIDCIYPRRHLKLAEQITE.NGLLLSEFPLKSPPIAGHFPLRNRIISGLSLCILVIE   229
NTDB id 1158761 QOS47 RS00050 WP 283596704.1   GVDGQAHQGALQAGGLTIAVLGSGLDQVYPARHRSLAASIAE.QGALVSEFWPQEQPRPQNFPRRNRVISGLSAGVLVIE   229
NTDB id 1399 DSB67 RS15600 WP 010645755.1      GIDGHAHDGALLAGGKTIAVLGSGLEQVYPARHRGLAQRVAE.NGALVSEFRPDAKPRAENFPRRNRIISGLSLGVLVVE   232
NTDB id 1152 A1552VC RS00200 WP 000654772.1    GIDGYAHDGALQAQGQTVAVLGSGLAQVYPKQHQGLAERIIA.QGALVSEFAPHTPPKADHFPRRNRIISGLSLGVVVVE   230
NTDB id 1388 A4U84 RS04945 WP 062924099.1      GIDGFCHQRAANENGITIAVLGSGLDQVYPARHKKLAEQIVETSGALVSEFFPSQPPIAENFPRRNRIISGLSLGTLVIE   228
NTDB id 1361 HI 0985 AAC22646.1                GIDGHCHQAVVNIQGQTIAVLGSGLEQIYPSKHQRLSAQIIENNGALVSEFLPNQAPIAANFPRRNRIISGLSVGTLVVE   229
consensus                                      !*!* *!****** ! !*!!*!*!****!! *** !*  *** *! **!!** **! ***!!*!!!*!**!!****!*!
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logo
NTDB id 1094 KZH42 RS01320 WP 002224767.1      AALESGSLITARLAAEMGREVMAVPGSIDNPHSKGCHKLIKDGAKLVECLDDILNECPGLLQNTGASSYSINKGIPEKRI   315
NTDB id 1089 NMB RS00600 WP 002224767.1        AALESGSLITARLAAEMGREVMAVPGSIDNPHSKGCHKLIKDGAKLVECLDDILNECPGLLQNTGASSYSINKGIPEKRI   315
NTDB id 1120 NGFG RS10355 WP 020997408.1       AALESGSLITAGLAAEMGREVMAVPGSIDNPHSKGCHKLIKDGAKLTECLDDILNECPGLLQNTGASSYSINKDTPDTGR   315
NTDB id 1122 OK783 RS09595 WP 003705341.1      AALESGSLITAGLAAEMGREVMAVPGSIDNPHSKGCHKLIKDGAKLTECLDDILNECPGLLQNTGASSYSINKDTPDTGR   315
NTDB id 1250 GC085 RS13065 WP 027219989.1      AAIKSGSLITARMALEQNRDVLAIPGSIHNPLARGCHYLLQQGAKLVTSVADVLDELKIEHHQFT................   294
NTDB id 1158761 QOS47 RS00050 WP 283596704.1  AAQKSGSLITARYALEQGREVFALPGSIHNPASRGCNALIKSGAKLVESPADIYEEVGSLTECA.I.....N........   295
NTDB id 1399 DSB67 RS15600 WP 010645755.1      AAEKSGSLITARYALEQGREVFALPASINAPNASGGNQLIQNGACLVQNTQEVLNEIQSLLDWS.I.....N........   298
NTDB id 1152 A1552VC RS00200 WP 000654772.1   AAEKSGSLITARYAAEQGREVFVVPGSIFNAASQGSNQLIRQGACLVQSVQQIHQELKNALTWS.L.....S........   296
NTDB id 1388 A4U84 RS04945 WP 062924099.1      ATVNSGSLITARYALEQGREVFALPNSVQNPYSEGCHKLIKEGALLVENVEDILEAIAWQRQSVHI.....QPSL.FDTK   302
NTDB id 1361 HI 0985 AAC22646.1                ATEKSGSLITARYALEQNREVFAVPGNIQNKSSQGCHRLIKQGAMLVENAKDILETLYQHS..IHS.....QTEIDFDQI   302
consensus                                      !***!!!!!!!**! !**!*!***!*** ** **!***!***!!*!** ******** *****        *
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logo
NTDB id 1094 KZH42 RS01320 WP 002224767.1      TAVQTASDQLSLPEGKMPSEKTENRPVGGSILDRMGFDPVHPDVLAGQLAMPAADLYAALLELELDGSVAAMPGGRYQRI   395
NTDB id 1089 NMB RS00600 WP 002224767.1        TAVQTASDQLSLPEGKMPSEKTENRPVGGSILDRMGFDPVHPDVLAGQLAMPAADLYAALLELELDGSVAAMPGGRYQRI   395
NTDB id 1120 NGFG RS10355 WP 020997408.1       RTVQTAY..APPPAAKMPSEGAAGGTAVGGILDKMGFDPIHPDVLAGQLAMPAADLYAALLELELDGSVAAMPGGRYQRI   393
NTDB id 1122 OK783 RS09595 WP 003705341.1      RAVQTAY..APPPAAKMPSEGAAGGTAVGGILDKMGFDPVHPDVLAGQLAMPAADLYAALLELELDGSVAAMPGGRYQRI   393
NTDB id 1250 GC085 RS13065 WP 027219989.1      ...........SNKPIFSL.....ASGKENLVKFIGFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCE   358
NTDB id 1158761 QOS47 RS00050 WP 283596704.1  .......NQI....GVPLATKENEELPFPALLANVGTEATPVDVVAERCKQPIHQILPQLLELELSGWVTAVPGGYIRTR   364
NTDB id 1399 DSB67 RS15600 WP 010645755.1      .......QSL....DLFSAPIDEEELPFPQLLANVGNEATPVDILASRTNIPVQEVMMQLLELELSGHVVAVSGGYIRKG   367
NTDB id 1152 A1552VC RS00200 WP 000654772.1   .......EQVPYQATLFSAVQSDEELPFPELLANVGIEATPIDILASRTQIPVQDIMMQLLELELLGHVVAVPGGYIRKG   369
NTDB id 1388 A4U84 RS04945 WP 062924099.1      ....P..KQAVKSEPKFAKNLPELTACQQQLFEQISLEPISVDDLAKATDMAVETALIELLNLELLGVVKQVRGGYVIT.   375
NTDB id 1361 HI 0985 AAC22646.1                ....AVPNYTPPPDPR...RL.VEAPSHPKLYSRIGYTPVSIDDLAEEFNLSVDVLLVQLLDLELQDLIISENGLYKRV.   373
consensus                                              **  * **      *       ********** *!***   **** *** *!**!!! * * ***!*****
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logo
NTDB id 1094 KZH42 RS01320 WP 002224767.1      RT.   397
NTDB id 1089 NMB RS00600 WP 002224767.1        RT.   397
NTDB id 1120 NGFG RS10355 WP 020997408.1       RT.   395
NTDB id 1122 OK783 RS09595 WP 003705341.1      RT.   395
NTDB id 1250 GC085 RS13065 WP 027219989.1      YER   361
NTDB id 1158761 QOS47 RS00050 WP 283596704.1  RG.   366
NTDB id 1399 DSB67 RS15600 WP 010645755.1      RG.   369
NTDB id 1152 A1552VC RS00200 WP 000654772.1   RG.   371
NTDB id 1388 A4U84 RS04945 WP 062924099.1      ...   375
NTDB id 1361 HI 0985 AAC22646.1                ...   373
consensus                                      *
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X non conserved

X similar

X $\geq$ 50% conserved