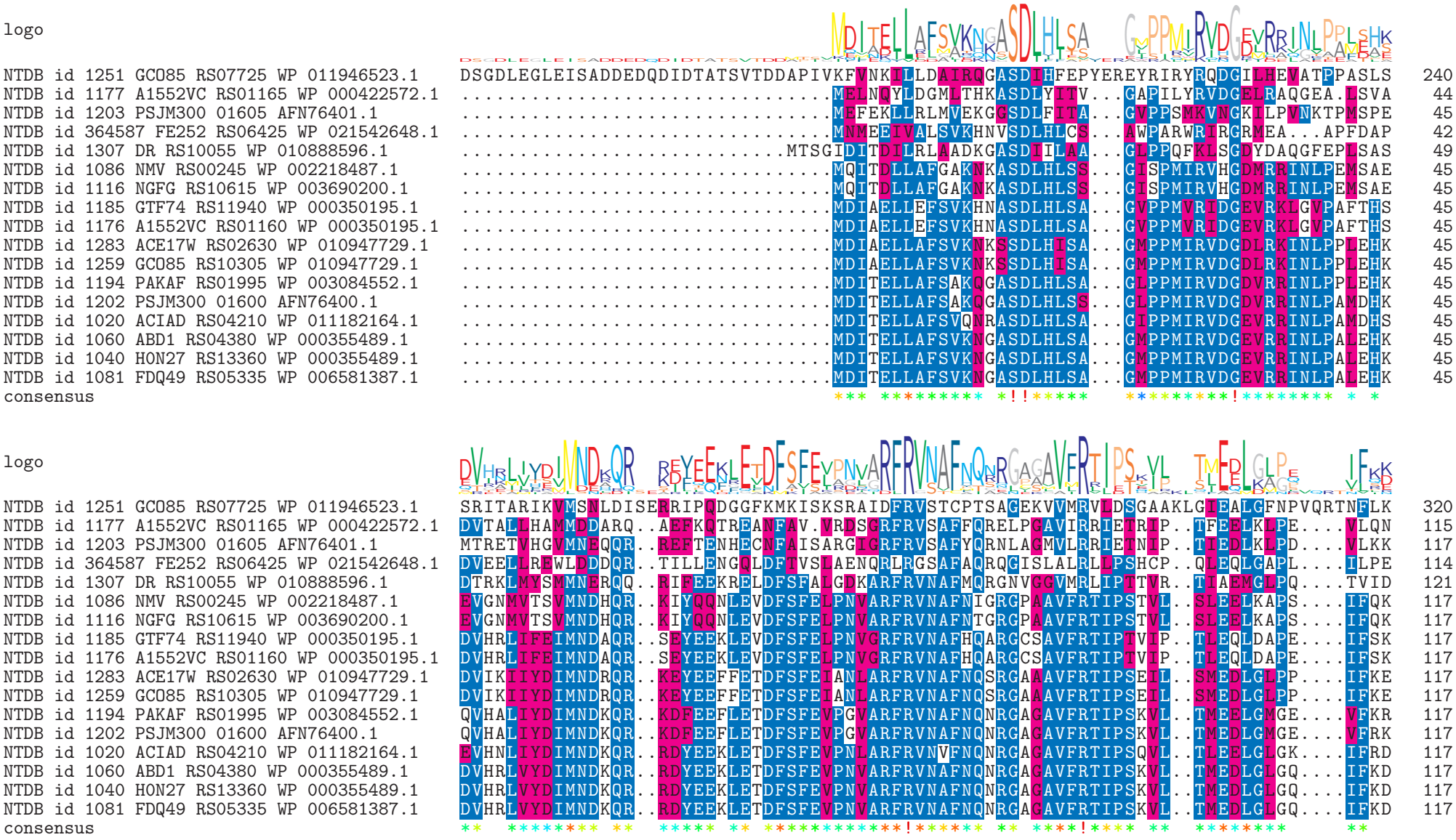
logo


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NTDB id 1251 GCO85 RS07725 WP 011946523.1    MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAAQNFGVPMLDINCIDVGTI    80
NTDB id 1177 A1552VC RS01165 WP 000422572.1  ................................................................................    0
NTDB id 1203 PSJM300 01605 AFN76401.1        ................................................................................    0
NTDB id 364587 FE252 RS06425 WP 021542648.1  ................................................................................    0
NTDB id 1307 DR RS10055 WP 010888596.1       ................................................................................    0
NTDB id 1086 NMV RS00245 WP 002218487.1      ................................................................................    0
NTDB id 1116 NGFG RS10615 WP 003690200.1     ................................................................................    0
NTDB id 1185 GTF74 RS11940 WP 000350195.1    ................................................................................    0
NTDB id 1176 A1552VC RS01160 WP 000350195.1  ................................................................................    0
NTDB id 1283 ACE17W RS02630 WP 010947729.1   ................................................................................    0
NTDB id 1259 GCO85 RS10305 WP 010947729.1    ................................................................................    0
NTDB id 1194 PAKAF RS01995 WP 003084552.1    ................................................................................    0
NTDB id 1202 PSJM300 01600 AFN76400.1        ................................................................................    0
NTDB id 1020 ACIAD RS04210 WP 011182164.1    ................................................................................    0
NTDB id 1060 ABD1 RS04380 WP 000355489.1     ................................................................................    0
NTDB id 1040 HON27 RS13360 WP 000355489.1    ................................................................................    0
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    ................................................................................    0
consensus
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NTDB id 364587 FE252 RS06425 WP 021542648.1  ................................................................................    0
NTDB id 1307 DR RS10055 WP 010888596.1       ................................................................................    0
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NTDB id 1081 FDQ49 RS05335 WP 006581387.1    ................................................................................    0
consensus
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NTDB id 1251 GCO85 RS07725 WP 011946523.1 DSGDLEGLEISADDEDQDIDTATSVTDDAPIVKFVNKILLDAIRQGASDIHFEPYEREYRIRYRQDGILHEVATPPASLS 240
NTDB id 1177 A1552VC RS01165 WP 000422572.1 ..............................MELNQYLDGMLTHKASDLYITV...GAPILYRVDGELRAQGEA.LSVA 44
NTDB id 1203 PSJM300 01605 AFN76401.1 ..............................MEFEKLLRLMVEKGGSDLFITA...GVPPSMKVNGKILPVNKTPMSPE 45
NTDB id 364587 FE252 RS06425 WP 021542648.1 ..............................MNMEEIVALSVKHNVSDLHLCS...AWPARWRIRGRMEA...APFDAP 42
NTDB id 1307 DR RS10055 WP 010888596.1 ..........................MTSGIDITDILRLAADKGASDIILAA...GLPPQFKLSGDYDAQGFEPLSAS 49
NTDB id 1086 NMV RS00245 WP 002218487.1 ..............................MQITDLLAFGAKNKASDLHLSS...GISPMIRVHGDMRRINLPEMSAE 45
NTDB id 1116 NGFG RS10615 WP 003690200.1 ..............................MQITDLLAFGAKNKASDLHLSS...GISPMIRVHGDMRRINLPEMSAE 45
NTDB id 1185 GTF74 RS11940 WP 000350195.1 ..............................MDIAELLEFSVKHNASDLHLSA...GVPPMVRIDGEVRKLGVPAFTHS 45
NTDB id 1176 A1552VC RS01160 WP 000350195.1 ..............................MDIAELLEFSVKHNASDLHLSA...GVPPMVRIDGEVRKLGVPAFTHS 45
NTDB id 1283 ACE17W RS02630 WP 010947729.1 ..............................MDIAELLAFSVKNKSSDLHISA...GMPPMIRVDGDLRKINLPPLEHK 45
NTDB id 1259 GCO85 RS10305 WP 010947729.1 ..............................MDIAELLAFSVKNKSSDLHISA...GMPPMIRVDGDLRKINLPPLEHK 45
NTDB id 1194 PAKAF RS01995 WP 003084552.1 ..............................MDITELLAFSAKQGASDLHLSA...GLPPMIRVDGDVRRINLPPLEHK 45
NTDB id 1202 PSJM300 01600 AFN76400.1 ..............................MDITELLAFSAKQGASDLHLSS...GLPPMIRVDGDVRRINLPAMDHK 45
NTDB id 1020 ACIAD RS04210 WP 011182164.1 ..............................MDITELLAFSVQNRASDLHLSA...GIPPMIRVDGEVRRINLPAMDHS 45
NTDB id 1060 ABD1 RS04380 WP 000355489.1 ..............................MDITELLAFSVKNGASDLHLSA...GMPPMIRVDGEVRRINLPALEHK 45
NTDB id 1040 HON27 RS13360 WP 000355489.1 ..............................MDITELLAFSVKNGASDLHLSA...GMPPMIRVDGEVRRINLPALEHK 45
NTDB id 1081 FDQ49 RS05335 WP 006581387.1 ..............................MDITELLAFSVKNGASDLHLSA...GMPPMIRVDGEVRRINLPALEHK 45
consensus
logo
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NTDB id 1177 A1552VC RS01165 WP 000422572.1 DVTALLLHAMMDDARQ..AEFKQTREANFAV.VRDSGRFRVSAFFQRELPGAVIRRIETRIP..TFEELKLPE....VLQN 115
NTDB id 1203 PSJM300 01605 AFN76401.1 MTRETVHGVMNEQQR..REFTENHECNFAISARGIGRFRVSAFYQRNLAGMVLRRIETNIP..TIEDLKLPD....VLKK 117
NTDB id 364587 FE252 RS06425 WP 021542648.1 DVEELLREWLDDDQR..TILLENGQLDFTVSLAENQRLRGSAFAQRQGISLALRLLPSHCP..QLEQLGAPL....ILPE 114
NTDB id 1307 DR RS10055 WP 010888596.1 DTRKLMYSMMNERQQ..RIFEEKRELDFSFALGDKARFRVNAFMQRGNVGGVMRLIPTTVR..TIAEMGLPQ....TVID 121
NTDB id 1086 NMV RS00245 WP 002218487.1 EVGNMVTSVMNDHQR..KIYQQNLEVDFSFELPNVARFRVNAFNIGRGPAAVFRTIPSTVL..SLEELKAPS....IFQK 117
NTDB id 1116 NGFG RS10615 WP 003690200.1 EVGNMVTSVMNDHQR..KIYQQNLEVDFSFELPNVARFRVNAFNTGRGPAAVFRTIPSTVL..SLEELKAPS....IFQK 117
NTDB id 1185 GTF74 RS11940 WP 000350195.1 DVHRLIFEIMNDAQR..SEYEEKLEVDFSFELPNVGRFRVNAFHQARGCSAVFRTIPTVIP..TLEQLDAPE....IFSK 117
NTDB id 1176 A1552VC RS01160 WP 000350195.1 DVHRLIFEIMNDAQR..SEYEEKLEVDFSFELPNVGRFRVNAFHQARGCSAVFRTIPTVIP..TLEQLDAPE....IFSK 117
NTDB id 1283 ACE17W RS02630 WP 010947729.1 DVIKIIYDIMNDRQR..KEYEEFFETDFSFEIANLARFRVNAFNQSRGAAAVFRTIPSEIL..SMEDLGLPP....IFKE 117
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NTDB id 1194 PAKAF RS01995 WP 003084552.1 QVHALIYDIMNDKQR..KDFEEFLETDFSFEVPGVARFRVNAFNQNRGAGAVFRTIPSKVL..TMEELGMGE....VFKR 117
NTDB id 1202 PSJM300 01600 AFN76400.1 QVHALIYDIMNDKQR..KDFEEFLETDFSFEVPGVARFRVNAFNQNRGAGAVFRTIPSKVL..TMEDLGMGE....VFRK 117
NTDB id 1020 ACIAD RS04210 WP 011182164.1 EVHNLIYDIMNDKQR..RDYEEKLETDFSFEVPNLARFRVNVFNQNRGAGAVFRTIPSQVL..TLEELGLGK....IFRD 117
NTDB id 1060 ABD1 RS04380 WP 000355489.1 DVHRLVYDIMNDKQR..RDYEEKLETDFSFEVPNVARFRVNAFNQNRGAGAVFRTIPSKVL..TMEDLGLGQ....IFKD 117
NTDB id 1040 HON27 RS13360 WP 000355489.1 DVHRLVYDIMNDKQR..RDYEEKLETDFSFEVPNVARFRVNAFNQNRGAGAVFRTIPSKVL..TMEDLGLGQ....IFKD 117
NTDB id 1081 FDQ49 RS05335 WP 006581387.1 DVHRLVYDIMNDKQR..RDYEEKLETDFSFEVPNVARFRVNAFNQNRGAGAVFRTIPSKVL..TMEDLGLGQ....IFKD 117
consensus

logo



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NTDB id 1177 A1552VC RS01165 WP 000422572.1  LAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQHRTGHILTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAP   195
NTDB id 1203 PSJM300 01605 AFN76401.1        LALTKRGLVLFVGATGTGKSTSLAAMIGYRNKNSSGHIISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAP   197
NTDB id 364587 FE252 RS06425 WP 021542648.1  LLKSENGLILVTGATGSGKSTTLAAMVGYLNQHADAHILTLEDPVEYLYASQRCLIQQREIGLHCMTFASGLRAALREDP   194
NTDB id 1307 DR RS10055 WP 010888596.1       IANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLHILTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAP   201
NTDB id 1086 NMV RS00245 WP 002218487.1      IAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDP   197
NTDB id 1116 NGFG RS10615 WP 003690200.1     IAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALREDP   197
NTDB id 1185 GTF74 RS11940 WP 000350195.1    IANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNKHILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDP   197
NTDB id 1176 A1552VC RS01160 WP 000350195.1  IANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNKHILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDP   197
NTDB id 1283 ACE17W RS02630 WP 010947729.1   MASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDP   197
NTDB id 1259 GCO85 RS10305 WP 010947729.1    MASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDP   197
NTDB id 1194 PAKAF RS01995 WP 003084552.1    VSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDP   197
NTDB id 1202 PSJM300 01600 AFN76400.1        ITDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDP   197
NTDB id 1020 ACIAD RS04210 WP 011182164.1    ICDYPRGLVLVTGPTGSGKSTTLAAMLDYINNHRYDHILTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDP   197
NTDB id 1060 ABD1 RS04380 WP 000355489.1     ICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDP   197
NTDB id 1040 HON27 RS13360 WP 000355489.1    ICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDP   197
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    ICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDP   197
consensus                                    *    **!**!**!*!!*!!*********  **!  *  *!***!!!*!*** ******************  *!***!!**!
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NTDB id 1177 A1552VC RS01165 WP 000422572.1  DMILIGEIRSRETMEYAMTFAETGHLCMATLHANNANQALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLR.......   268
NTDB id 1203 PSJM300 01605 AFN76401.1        DVILIGEVRTRETMDHAVAFAETGHLCLATLHANNANQALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVP.......   270
NTDB id 364587 FE252 RS06425 WP 021542648.1  DVILLGELRDSETIRLALTAAETGHLVLATLHTRGAAQAVERLVDSFPAQEKDPVRNQLAGSLRAVLSQKLEV.......   267
NTDB id 1307 DR RS10055 WP 010888596.1       DVILVGEMRDYETIKAAVTAAETGHLVMGTLHTNSAPESIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLP.......   274
NTDB id 1086 NMV RS00245 WP 002218487.1      DVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGAAKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLK.......   270
NTDB id 1116 NGFG RS10615 WP 003690200.1     DVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGAAKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLK.......   270
NTDB id 1185 GTF74 RS11940 WP 000350195.1    DVILVGELRDQETISLALTAAETGHLVFGTLHTSSAAKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLK.......   270
NTDB id 1176 A1552VC RS01160 WP 000350195.1  DVILVGELRDQETISLALTAAETGHLVFGTLHTSSAAKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLK.......   270
NTDB id 1283 ACE17W RS02630 WP 010947729.1   DIILVGELRDLETIRLAMTAAETGHLVFGTLHTNSATKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLK.......   270
NTDB id 1259 GCO85 RS10305 WP 010947729.1    DIILVGELRDLETIRLAMTAAETGHLVFGTLHTNSATKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLK.......   270
NTDB id 1194 PAKAF RS01995 WP 003084552.1    DIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAKTIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIK.......   270
NTDB id 1202 PSJM300 01600 AFN76400.1        DIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAKTIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLK.......   270
NTDB id 1020 ACIAD RS04210 WP 011182164.1    DIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAKTIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLK.......   270
NTDB id 1060 ABD1 RS04380 WP 000355489.1     DIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLK.......   270
NTDB id 1040 HON27 RS13360 WP 000355489.1    DIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLK.......   270
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    DIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLK.......   270
consensus                                    !*!**!!*!* !!***!***!*!!!!***!!!***!*****!**************** ****** ****! !**
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NTDB id 1177 A1552VC RS01165 WP 000422572.1  ..................................DKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARSQEVGMQ   313
NTDB id 1203 PSJM300 01605 AFN76401.1        ..................................TPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTDLGMQ   315
NTDB id 364587 FE252 RS06425 WP 021542648.1  ..................................D.KQEGRVALFELLINTPAVGNLIREGKTHQLPHVIQTGQQVGML   311
NTDB id 1307 DR RS10055 WP 010888596.1       ..................................RADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAREGMV   319
NTDB id 1086 NMV RS00245 WP 002218487.1      ..................................THDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQASGMQ   315
NTDB id 1116 NGFG RS10615 WP 003690200.1     ..................................THDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQASGMQ   315
NTDB id 1185 GTF74 RS11940 WP 000350195.1    ..................................R.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGMQ   314
NTDB id 1176 A1552VC RS01160 WP 000350195.1  ..................................R.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGMQ   314
NTDB id 1283 ACE17W RS02630 WP 010947729.1   ..................................K.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQAKGMQ   314
NTDB id 1259 GCO85 RS10305 WP 010947729.1    ..................................K.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQAKGMQ   314
NTDB id 1194 PAKAF RS01995 WP 003084552.1    ..................................K.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTGGSLGMQ   314
NTDB id 1202 PSJM300 01600 AFN76400.1        ..................................K.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTGGSLGMQ   314
NTDB id 1020 ACIAD RS04210 WP 011182164.1    ..................................K.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTGATHGMT   314
NTDB id 1060 ABD1 RS04380 WP 000355489.1     ..................................K.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT   314
NTDB id 1040 HON27 RS13360 WP 000355489.1    ..................................K.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT   314
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    ..................................K.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT   314
consensus                                                                         *  **!!** *!**********!!** ******* ****   !!*
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logo



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NTDB id 1251 GCO85 RS07725 WP 011946523.1    TIFQSGIEKVKEGITTIEEVNRVTVD.....................................................   574
NTDB id 1177 A1552VC RS01165 WP 000422572.1  TFDQALYQLVVDDKISEQDALHSADSANDLRLMLKT..KRGDDYGSG..SLQNVKI....DME.....................   368
NTDB id 1203 PSJM300 01605 AFN76401.1        TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKL..GSETDGEHLTSVSQGLTL....EMSDDDPGRSFR.........   381
NTDB id 364587 FE252 RS06425 WP 021542648.1  TFQQSYQQRVGEGRL.................................................................   326
NTDB id 1307 DR RS10055 WP 010888596.1       TMDAYLAGLFRRHLITYDKGLERAID.PKEFARLANDASAGLGGASMTPAAPPVPAYNSASSSSTGRGGDFGRGAAAPAT   398
NTDB id 1086 NMV RS00245 WP 002218487.1      TMDQSLQSLVRQGLIAPEVARRRAQNSESMSF...............................................   347
NTDB id 1116 NGFG RS10615 WP 003690200.1     TMDQSLQSLVRQGLIAPEAARRRAQNSESMSF...............................................   347
NTDB id 1185 GTF74 RS11940 WP 000350195.1    TMEQNAKQLIARGVVDAQEVQSKIELDLKAF................................................   345
NTDB id 1176 A1552VC RS01160 WP 000350195.1  TMEQNAKQLIARGVVDAQEVQSKIELDLKAF................................................   345
NTDB id 1283 ACE17W RS02630 WP 010947729.1   TLDQHLTELVNKNIISKHTAHEAALN.KSLF................................................   344
NTDB id 1259 GCO85 RS10305 WP 010947729.1    TLDQHLTELVNKNIISKHTAHEAALN.KSLF................................................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1    TLDMCLKGLVAKGLISRENAREKAKI.PENF................................................   344
NTDB id 1202 PSJM300 01600 AFN76400.1        TLDSCLKGLLAKGLISRDSAKEKAKQ.PENF................................................   344
NTDB id 1020 ACIAD RS04210 WP 011182164.1    TLDQSLKQLLAKGIINLPTARAVAKS.PESF................................................   344
NTDB id 1060 ABD1 RS04380 WP 000355489.1     TLDQSLKGLVARGVISPQTARTAAKQ.PESFL...............................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1    TLDQSLKGLVARGVISPQTARTAAKQ.PESFL...............................................   345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    TLDQSLKGLVSRGVISPQTARTAAKQ.PESFL...............................................   345
consensus                                    !***  *   **  *****    *    *       *
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NTDB id 1251 GCO85 RS07725 WP 011946523.1	.....	574
NTDB id 1177 A1552VC RS01165 WP 000422572.1	.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 364587 FE252 RS06425 WP 021542648.1	.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	PAAPAAGRSEPGRAGGFGRR	418
NTDB id 1086 NMV RS00245 WP 002218487.1	.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	.....	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	.....	344
NTDB id 1259 GCO85 RS10305 WP 010947729.1	.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	.....	344
NTDB id 1060 ABD1 RS04380 WP 000355489.1	.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	.....	345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	.....	345

consensus

X non conserved
X similar
X $\geq$ 50% conserved