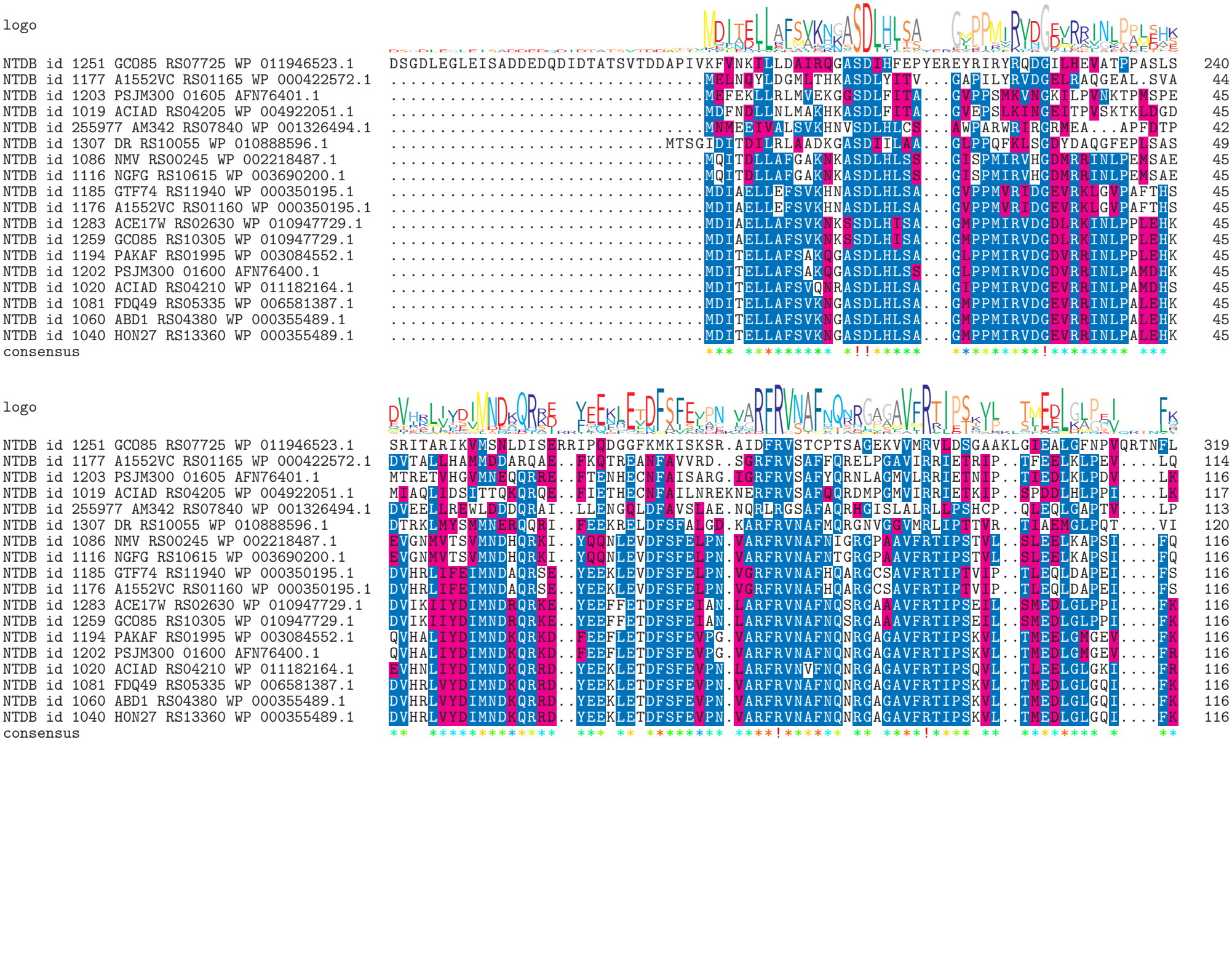
logo



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NTDB id 1251 GCO85 RS07725 WP 011946523.1    MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAAQNFGVPMLDINCIDVGTI    80
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NTDB id 1203 PSJM300 01605 AFN76401.1        ................................................................................    0
NTDB id 1019 ACIAD RS04205 WP 004922051.1    ................................................................................    0
NTDB id 255977 AM342 RS07840 WP 001326494.1  ................................................................................    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 1081 FDQ49 RS05335 WP 006581387.1    ................................................................................    0
NTDB id 1060 ABD1 RS04380 WP 000355489.1     ................................................................................    0
NTDB id 1040 HON27 RS13360 WP 000355489.1    ................................................................................    0
consensus
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logo


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NTDB id 1251 GCO85 RS07725 WP 011946523.1    PVNLVNEKLIKRHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTGLNTHAIVVETDKLSALIDNLLTAKESQGLSEYVE   160
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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 1081 FDQ49 RS05335 WP 006581387.1    ................................................................................    0
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NTDB id 1040 HON27 RS13360 WP 000355489.1    ................................................................................    0
consensus
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NTDB id 1203 PSJM300 01605 AFN76401.1 ..............................MEFEKLLRLMVEKGGSDLFITA...GVPPSMKVNGKILPVNKTPMSPE 45
NTDB id 1019 ACIAD RS04205 WP 004922051.1 ..............................MDFNDLLNLMAKHKASDLFITA...GVEPSLKINGEITPVSKTKLDGD 45
NTDB id 255977 AM342 RS07840 WP 001326494.1 ..............................MNMEEIVALSVKHNVSDLHLCS...AWPARWRIRGRMEA...APFDTP 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 1081 FDQ49 RS05335 WP 006581387.1 ..............................MDITELLAFSVKNGASDLHLSA...GMPPMIRVDGEVRRINLPALEHK 45
NTDB id 1060 ABD1 RS04380 WP 000355489.1 ..............................MDITELLAFSVKNGASDLHLSA...GMPPMIRVDGEVRRINLPALEHK 45
NTDB id 1040 HON27 RS13360 WP 000355489.1 ..............................MDITELLAFSVKNGASDLHLSA...GMPPMIRVDGEVRRINLPALEHK 45
consensus
logo
NTDB id 1251 GCO85 RS07725 WP 011946523.1 SRITARIKVMSNLDISERRIPQDGGFKMKISKSR.AIDFRVSTCPTSAGEKVVMRVLDSGAAKLGIEALGFNPVQRTNFL 319
NTDB id 1177 A1552VC RS01165 WP 000422572.1 DVTALLLHAMMDDARQAE..FKQTREANFAVVRD..SGRFRVSAFFQRELPGAVIRRIETRIP..TFEELKLPEV....LQ 114
NTDB id 1203 PSJM300 01605 AFN76401.1 MTRETVHGVMNEQQRRE..FTENHECNFAISARG.IGRFRVSAFYQRNLAGMVLRRIETNIP..TIEDLKLPDV....LK 116
NTDB id 1019 ACIAD RS04205 WP 004922051.1 MIAQLIDSITTQKQRQE..FIETHECNFAILNREKNERFRVSAFQQRDMPGMVIRRIETKIP..SPDDLHLPPI....LK 117
NTDB id 255977 AM342 RS07840 WP 001326494.1 DVEELLREWLDDDQRAI..LLENGQLDFAVSLAE.NQRLRGSAFAQRHGISLALRLLPSHCP..QLEQLGAPTV....LP 113
NTDB id 1307 DR RS10055 WP 010888596.1 DTRKLMYSMMNERQQRI..FEEKRELDFSFALGD.KARFRVNAFMQRGNVGGVMRLIPTTVR..TIAEMGLPQT....VI 120
NTDB id 1086 NMV RS00245 WP 002218487.1 EVGNMVTSVMNDHQRKI..YQQNLEVDFSFELPN.VARFRVNAFNIGRGPAAVFRTIPSTVL..SLEELKAPSI....FQ 116
NTDB id 1116 NGFG RS10615 WP 003690200.1 EVGNMVTSVMNDHQRKI..YQQNLEVDFSFELPN.VARFRVNAFNTGRGPAAVFRTIPSTVL..SLEELKAPSI....FQ 116
NTDB id 1185 GTF74 RS11940 WP 000350195.1 DVHRLIFEIMNDAQRSE..YEEKLEVDFSFELPN.VGRFRVNAFHQARGCSAVFRTIPTVIP..TLEQLDAPEI....FS 116
NTDB id 1176 A1552VC RS01160 WP 000350195.1 DVHRLIFEIMNDAQRSE..YEEKLEVDFSFELPN.VGRFRVNAFHQARGCSAVFRTIPTVIP..TLEQLDAPEI....FS 116
NTDB id 1283 ACE17W RS02630 WP 010947729.1 DVIKIIYDIMNDRQRKE..YEEFFETDFSFEIAN.LARFRVNAFNQSRGAAAVFRTIPSEIL..SMEDLGLPPI....FK 116
NTDB id 1259 GCO85 RS10305 WP 010947729.1 DVIKIIYDIMNDRQRKE..YEEFFETDFSFEIAN.LARFRVNAFNQSRGAAAVFRTIPSEIL..SMEDLGLPPI....FK 116
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NTDB id 1202 PSJM300 01600 AFN76400.1 QVHALIYDIMNDKQRKD..FEEFLETDFSFEVPG.VARFRVNAFNQNRGAGAVFRTIPSKVL..TMEDLGMGEV....FR 116
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consensus

logo



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NTDB id 1177 A1552VC RS01165 WP 000422572.1  NLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQHRTGHILTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQA  194
NTDB id 1203 PSJM300 01605 AFN76401.1        KLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKNSSGHITSIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQA  196
NTDB id 1019 ACIAD RS04205 WP 004922051.1    ELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSKGHIITIEDPIEFIHEHAGCIITQREVGIDTDSFEIALKNTLRQA  197
NTDB id 255977 AM342 RS07840 WP 001326494.1  ELLKSENGLILVTGATGSGKSTTLAAMVGYLNQHADAHILTLEDPVEYLYASQRCLIQQREIGLHCMTFASGLRAALRED  193
NTDB id 1307 DR RS10055 WP 010888596.1       DIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLHILTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQA  200
NTDB id 1086 NMV RS00245 WP 002218487.1      KIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALRED  196
NTDB id 1116 NGFG RS10615 WP 003690200.1     KIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALRED  196
NTDB id 1185 GTF74 RS11940 WP 000350195.1    KIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNKHILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALRED  196
NTDB id 1176 A1552VC RS01160 WP 000350195.1  KIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNKHILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALRED  196
NTDB id 1283 ACE17W RS02630 WP 010947729.1   EMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALRED  196
NTDB id 1259 GCO85 RS10305 WP 010947729.1    EMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALRED  196
NTDB id 1194 PAKAF RS01995 WP 003084552.1    RVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALRED  196
NTDB id 1202 PSJM300 01600 AFN76400.1        KITDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALRED  196
NTDB id 1020 ACIAD RS04210 WP 011182164.1    DICDYPRGLVLVTGPTGSGKSTTLAAMLDYINNHRYDHILTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALRED  196
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    DICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALRED  196
NTDB id 1060 ABD1 RS04380 WP 000355489.1     DICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALRED  196
NTDB id 1040 HON27 RS13360 WP 000355489.1    DICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALRED  196
consensus                                     **  **!*****!*!!*!!*********  **!  *  *!***!!!*!*** ******************  *!***!!**
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logo



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NTDB id 1251 GCO85 RS07725 WP 011946523.1    PDIIMVGEIRDLETAELAIKAAQTGHLVLSTLHTNSAAETLNRLVNMGIPT......FNIASSVTLIIAQRLARKLCNQC  469
NTDB id 1177 A1552VC RS01165 WP 000422572.1  PDMILIGEIRSRETMEYAMTFAETGHLCMATLHANNANQALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLR......  268
NTDB id 1203 PSJM300 01605 AFN76401.1        PDVILIGEVRTRETMDHAVAFAETGHLCLATLHANNANQALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVP......  270
NTDB id 1019 ACIAD RS04205 WP 004922051.1    PDVILIGEIRSREVMDYALAFAETGHLVFATLHANNANQTLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIP......  271
NTDB id 255977 AM342 RS07840 WP 001326494.1  PDVILLGELRDSETIRLALTAAETGHLVLATLHTRGAAQAVERLVDSFPAQEKDPVRNQLAGSLRAVLSQKLEV......  267
NTDB id 1307 DR RS10055 WP 010888596.1       PDVILVGEMRDYETIKAAVTAAETGHLVMGTLHTNSAPESIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLP......  274
NTDB id 1086 NMV RS00245 WP 002218487.1      PDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGAAKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLK......  270
NTDB id 1116 NGFG RS10615 WP 003690200.1     PDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGAAKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLK......  270
NTDB id 1185 GTF74 RS11940 WP 000350195.1    PDVILVGELRDQETISLALTAAETGHLVFGTLHTSSAAKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLK......  270
NTDB id 1176 A1552VC RS01160 WP 000350195.1  PDVILVGELRDQETISLALTAAETGHLVFGTLHTSSAAKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLK......  270
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NTDB id 1259 GCO85 RS10305 WP 010947729.1    PDIILVGELRDLETIRLAMTAAETGHLVFGTLHTNSATKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLK......  270
NTDB id 1194 PAKAF RS01995 WP 003084552.1    PDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAKTIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIK......  270
NTDB id 1202 PSJM300 01600 AFN76400.1        PDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAKTIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLK......  270
NTDB id 1020 ACIAD RS04210 WP 011182164.1    PDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAKTIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLK......  270
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    PDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLK......  270
NTDB id 1060 ABD1 RS04380 WP 000355489.1     PDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLK......  270
NTDB id 1040 HON27 RS13360 WP 000355489.1    PDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLK......  270
consensus                                     !!*!**!!*!*  !****!***!*!!!!***!!!***!*****!**************** ******  *****!  !**
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logo



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NTDB id 1177 A1552VC RS01165 WP 000422572.1  ..................................DKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARSQEVGM   312
NTDB id 1203 PSJM300 01605 AFN76401.1        ..................................TPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTDLGM   314
NTDB id 1019 ACIAD RS04205 WP 004922051.1    ..................................THDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARSGELGM   315
NTDB id 255977 AM342 RS07840 WP 001326494.1  ..................................D.KQEGRVALFELLINTPAVGNLIREGKTHQLPHVIQTGQQVGM   310
NTDB id 1307 DR RS10055 WP 010888596.1       ..................................RADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAREGM   318
NTDB id 1086 NMV RS00245 WP 002218487.1      ..................................THDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQASGM   314
NTDB id 1116 NGFG RS10615 WP 003690200.1     ..................................THDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQASGM   314
NTDB id 1185 GTF74 RS11940 WP 000350195.1    ..................................R.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGM   313
NTDB id 1176 A1552VC RS01160 WP 000350195.1  ..................................R.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGM   313
NTDB id 1283 ACE17W RS02630 WP 010947729.1   ..................................K.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQAKGM   313
NTDB id 1259 GCO85 RS10305 WP 010947729.1    ..................................K.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQAKGM   313
NTDB id 1194 PAKAF RS01995 WP 003084552.1    ..................................K.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTGGSLGM   313
NTDB id 1202 PSJM300 01600 AFN76400.1        ..................................K.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTGGSLGM   313
NTDB id 1020 ACIAD RS04210 WP 011182164.1    ..................................K.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTGATHGM   313
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    ..................................K.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGM   313
NTDB id 1060 ABD1 RS04380 WP 000355489.1     ..................................K.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGM   313
NTDB id 1040 HON27 RS13360 WP 000355489.1    ..................................K.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGM   313
consensus                                                                         *  ***!****!***********!** ******* *****  !!
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logo



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NTDB id 1251 GCO85 RS07725 WP 011946523.1    LTIFQSGIEKVKEGITTIEEVNRVTVD.....................................................   574
NTDB id 1177 A1552VC RS01165 WP 000422572.1  QTFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI.........DME.............   368
NTDB id 1203 PSJM300 01605 AFN76401.1        QTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL.......EMSDDDPGRSFR....   381
NTDB id 1019 ACIAD RS04205 WP 004922051.1    QTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEMER.......KMTFDGQRRNLK....   383
NTDB id 255977 AM342 RS07840 WP 001326494.1  ITFQQSYQHRVGEGRL.................................................................   326
NTDB id 1307 DR RS10055 WP 010888596.1       VTMDAYLAGLFRRHLITYDKGLERAID.PKEFARLA..NDASAGL.GGASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA   394
NTDB id 1086 NMV RS00245 WP 002218487.1      QTMDQSLQSLVRQGLIAPEVARRRAQNSESMSF.....................................................   347
NTDB id 1116 NGFG RS10615 WP 003690200.1     QTMDQSLQSLVRQGLIAPEAARRRAQNSESMSF.....................................................   347
NTDB id 1185 GTF74 RS11940 WP 000350195.1    QTMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....................................................   345
NTDB id 1176 A1552VC RS01160 WP 000350195.1  QTMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....................................................   345
NTDB id 1283 ACE17W RS02630 WP 010947729.1   QTLDQHLTELVNKNIISKHTAHEAALN.KSLF.....................................................   344
NTDB id 1259 GCO85 RS10305 WP 010947729.1    QTLDQHLTELVNKNIISKHTAHEAALN.KSLF.....................................................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1    QTLDMCLKGLVAKGLISRENAREKAKI.PENF.....................................................   344
NTDB id 1202 PSJM300 01600 AFN76400.1        QTLDSCLKGLLAKGLISRDSAKEKAKQ.PENF.....................................................   344
NTDB id 1020 ACIAD RS04210 WP 011182164.1    TTLDQSLKQLLAKGIINLPTARAVAKS.PESF.....................................................   344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    TTLDQSLKGLVSRGVISPQTARTAAKQ.PESFL....................................................   345
NTDB id 1060 ABD1 RS04380 WP 000355489.1     TTLDQSLKGLVARGVISPQTARTAAKQ.PESFL....................................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1    TTLDQSLKGLVARGVISPQTARTAAKQ.PESFL....................................................   345
consensus                                    *!***  *   **  *****    *    *       *
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logo


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NTDB id 1251 GCO85 RS07725 WP 011946523.1     ..........................   574
NTDB id 1177 A1552VC RS01165 WP 000422572.1   ..........................   368
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NTDB id 1019 ACIAD RS04205 WP 004922051.1     ..........................   383
NTDB id 255977 AM342 RS07840 WP 001326494.1   ..........................   326
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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
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NTDB id 1202 PSJM300 01600 AFN76400.1         ..........................   344
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NTDB id 1081 FDQ49 RS05335 WP 006581387.1     ..........................   345
NTDB id 1060 ABD1 RS04380 WP 000355489.1      ..........................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1     ..........................   345
consensus
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X non conserved
X similar
X ≥ 50% conserved