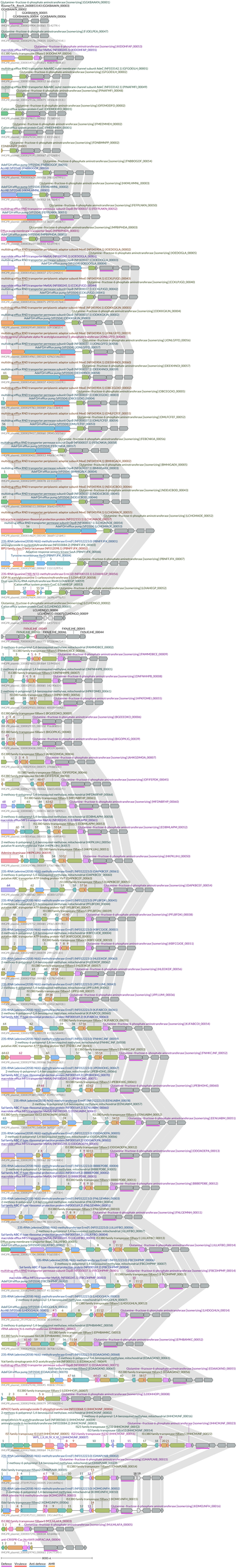
Rivner/TA_Rivx4_260083343 [GCABBAAN_00003]
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MICPF_chromosome_2000199[4,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [F JOLEPLA_00047]
MICPF_chromosome_2000199[5,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [JIDDHFAP_00053]
macrolide efflux MFS transporter MefA/ [NFO0245] [JIDDHFAP_00054]
(61380) family transporter (Bacs) [JIDDHFAP_00054]
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multidrug efflux RND transporter AdeABC outer membrane channel subunit AdeC [NFO3141] [LIGFGOEH_00001]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [LIGFGOEH_00002]
MICPF_chromosome_2000199[6,0]1[5]1 72,427kb
multidrug efflux RND transporter AdeABC outer membrane channel subunit AdeC [NFO3141] [PNAFMFLI_00049]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [PNAFMFLI_00048]
MICPF_chromosome_2000199[7,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [JIDEMOOF_00002]
Cation efflux system protein CusC [CHEMNIMI_00001]
MICPF_chromosome_2000199[8,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [FMEMEHEH_00002]
Cation efflux system protein CusC [HMEMNIMI_00001]
MICPF_chromosome_2000199[9,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [FDNBNMPP_00002]
FDNBNMPP_00001
MICPF_chromosome_2000199[10,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [FNBBGGOF_00054]
AdeF GH efflux pump [NT0506] [FNBBGGOF_00075]
AcrAB [NT0506] [FNBBGCOF_00065]
MICPF_chromosome_2000199[11,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [HKMLHMNL_00003]
AdeF GH efflux pump [NT0506] [HKMLHMNL_00002]
AcrAB [NT0506] [HKMLHMNL_00001]
MICPF_chromosome_2000199[12,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [FEFPLNKN_00050]
AdeF GH efflux pump [NT0506] [FEFPLNKN_00052]
MICPF_chromosome_2000199[13,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [MPBHPHDA_00003]
Efflux pump membrane transporter BepG [MPBHPHDA_00001]
AdeF GH efflux pump [NT0506] [MPBHPHDA_00002]
MICPF_chromosome_2000199[14,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [IODEOGGA_00005]
multidrug efflux RND transporter periplasmic adaptor subunit MexE [NFO4904.1] [IODEOGGA_00002]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [IODEOGGA_00003]
macrolide efflux MFS transporter MefA/ [NFO0245] [IODEOGGA_00001]
multidrug efflux RND transporter permease subunit OprM [NFO0245] [IODEOGGA_00004]
AdeF GH efflux pump [NT0506] [IODEOGGA_00006]
MICPF_chromosome_2000199[15,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [ECKLFUQD_00003]
macrolide efflux MFS transporter MefA/ [NFO0245] [ECKLFUQD_00001]
multidrug efflux RND transporter permease subunit OprM [NFO0245] [ECKLFUQD_00004]
AdeF GH efflux pump [NT0506] [ECKLFUQD_00001]
MICPF_chromosome_2000199[16,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [ECKLFUQD_00004]
multidrug efflux RND transporter periplasmic adaptor subunit MexE [NFO4904.1] [EDKKGKJN_00003]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [EDKKGKJN_00004]
AdeF GH efflux pump [NT0506] [EDKKGKJN_00003]
MICPF_chromosome_2000199[17,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [EDKKGKJN_00003]
multidrug efflux RND transporter periplasmic adaptor subunit MexE [NFO4904.1] [EDNLGFFD_00019]
Glutamine--fructose-6-phosphate alpha-N-acetylglucosamine [] [EDNLGFFD_00018]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [JOMLGFFD_00056]
MICPF_chromosome_2000199[18,0]1[5]1 72,427kb
multidrug efflux RND transporter periplasmic adaptor subunit MexE [NFO0237] [LIGNLGFFD_00058]
AdeF GH efflux pump [NT0506] [JOMLGFFD_00057]
MICPF_chromosome_2000199[19,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [DEKKNNKN_00057]
multidrug efflux RND transporter periplasmic adaptor subunit MexE [NFO0237] [DEKKNNKN_00059]
multidrug efflux RND transporter permease subunit OprM [NFO0237] [DEKKNNKN_00058]
AdeF GH efflux pump [NT0506] [DEKKNNKN_00056]
MICPF_chromosome_2000199[20,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [OBCEGCIO_00005]
multidrug efflux RND transporter periplasmic adaptor subunit MexE [NFO4904.1] [OBCEGCIO_00003]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [OBCEGCIO_00004]
AdeF GH efflux pump [NT0506] [OBCEGCIO_00006]
MICPF_chromosome_2000199[21,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [OMLFCEFT_00051]
multidrug efflux RND transporter periplasmic adaptor subunit MexE [NFO0237] [OMLFCEFT_00052]
multidrug efflux RND transporter permease subunit OprM [NFO0237] [OMLFCEFT_00054]
AdeF GH efflux pump [NT0506] [OMLFCEFT_00053]
MICPF_chromosome_2000199[22,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [FEBCNKNA_00056]
multidrug efflux RND transporter permease subunit OprM [NFO0237] [FFBCNKNA_00058]
AdeF GH efflux pump [NT0506] [FEBCNKNA_00057]
MICPF_chromosome_2000199[23,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [BMHKGAEK_00005]
multidrug efflux RND transporter periplasmic adaptor subunit MexE [NFO4904.1] [BMHKGAEK_00002]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [BMHKGAEK_00003]
multidrug efflux RND transporter permease subunit OprM [NFO0237] [LIBMHGAEK_00002]
AdeF GH efflux pump [NT0506] [BMHKGAEK_00004]
MICPF_chromosome_2000199[24,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [INDDJCBD_00006]
multidrug efflux RND transporter periplasmic adaptor subunit MexE [NFO4904.1] [INDDJCBD_00005]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [INDDJCBD_00003]
multidrug efflux RND transporter permease subunit OprM [NFO0237] [LINDDJCBD_00004]
AdeF GH efflux pump [NT0506] [INDDJCBD_00004]
MICPF_chromosome_2000199[25,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [LICHGMADE_00052]
multidrug efflux RND transporter periplasmic adaptor subunit MexE [NFO4904.1] [LICHGMADE_00051]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [LICHGMADE_00050]
multidrug efflux RND transporter permease subunit OprM [NFO0237] [LICHGMADE_00053]
AdeF GH efflux pump [NT0506] [LICHGMADE_00054]
MICPF_chromosome_2000199[26,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [FMNFIFIX_00007]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [FMNFIFIX_00001]
aminoglycoside 6-nucleotidyltransferase [FMNFIFIX_00002]
BPU family class D beta-lactamase [NT0129] [FMNFIFIX_00003]
Adaptive response sensor kinase SsrA [FMNFIFIX_00006]
Tyrosine recombinase XerD [FMNFIFIX_00004]
MICPF_chromosome_2000199[27,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [FMNFIFIX_00007]
235 rRNA (guanine(748)-N(1)-methyltransferase ErmD [NFO0133.1] [LIDAHGJP_00056]
UDP N-acetylglucosamine 1-carboxyvinyltransferase [LIDAHGJP_00058]
Dual-specificity RNA methyltransferase RlmN [LIDAHGJP_00059]
Cation efflux system protein CusC [LIDAHGJP_00053]
MICPF_chromosome_2000199[28,0]1[5]1 72,427kb
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [LIDAHGJP_00052]
Cation efflux system protein CusC [LCLHDNGO_00001]
LCLHDNGO_00004
LCLHDNGO_00007 [LCLHDNGO_00009]
MICPF_chromosome_2000199[29,0]1[5]1 72,427kb
FXNLHEJE_00045
FXNLHEJE_00050 FXNLHEJE_00046 FXNLHEJE_00044
MICPF_chromosome_2000199[30,0]1[5]1 72,427kb
(61380) family transporter [FBMMKDEC_00008]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [FBMMKDEC_00009]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [FBMMKDEC_00009]
MICPF_chromosome_2000199[31,0]1[5]1 72,427kb
(61380) family transporter [DNFNHBPB_00008]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [DNFNHBPB_00009]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [DNFNHBPB_00008]
MICPF_chromosome_2000199[32,0]1[5]1 72,427kb
(61380) family transporter [HPMDMEL_00006]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [HPMDMEL_00006]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [HPMDMEL_00005]
MICPF_chromosome_2000199[33,0]1[5]1 72,427kb
(61380) family transporter [BGEEEDOO_00006]
BR-PR-like protein [BGEEEDOO_00005]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [BGEEEDOO_00006]
MICPF_chromosome_2000199[34,0]1[5]1 72,427kb
(61380) family transporter [BGOPKJIG_00009]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [BGOPKJIG_00009]
MICPF_chromosome_2000199[35,0]1[5]1 72,427kb
(61380) family transporter [JAHKGOMA_00008]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [JAHKGOMA_00007]
MICPF_chromosome_2000199[36,0]1[5]1 72,427kb
(61380) family transporter [OFIEFEDK_00046]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [OFIEFEDK_00045]
MICPF_chromosome_2000199[37,0]1[5]1 72,427kb
(61380) family transporter [MFDNBHIP_00063]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [MFDNBHIP_00064]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [MFDNBHIP_00063]
MICPF_chromosome_2000199[38,0]1[5]1 72,427kb
(61380) family transporter [EDBMLAPM_00053]
macrolide efflux MFS transporter MefA/ [NFO0245] [EDBMLAPM_00061]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [EDBMLAPM_00052]
MICPF_chromosome_2000199[39,0]1[5]1 72,427kb
(61380) family transporter [HPKJIJKJ_00050]
Adenine deaminase [HPKJIJKJ_00049]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [HPKJIJKJ_00050]
MICPF_chromosome_2000199[40,0]1[5]1 72,427kb
(61380) family transporter [JIAPKBCF_00065]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [JIAPKBCF_00061]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [JIAPKBCF_00064]
putative ABC transporter ATP-binding protein YsiT [JIAPKBCF_00063]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [JIAPKBCF_00065]
MICPF_chromosome_2000199[41,0]1[5]1 72,427kb
(61380) family transporter [JPLEFDKI_00045]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [JPLEFDKI_00041]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [JPLEFDKI_00044]
putative ABC transporter ATP-binding protein YsiT [JPLEFDKI_00043]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [JPLEFDKI_00043]
MICPF_chromosome_2000199[42,0]1[5]1 72,427kb
(61380) family transporter [JOBFGCIE_00010]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [JOBFGCIE_00006]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [JOBFGCIE_00009]
putative ABC transporter ATP-binding protein YsiT [JOBFGCIE_00005]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [JOBFGCIE_00011]
MICPF_chromosome_2000199[43,0]1[5]1 72,427kb
(61380) family transporter [HLEEEKDF_00063]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [HLEEEKDF_00063]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [HLEEEKDF_00062]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [HLEEEKDF_00056]
MICPF_chromosome_2000199[44,0]1[5]1 72,427kb
(61380) family transporter [JPPJLJMK_00063]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [JPPJLJMK_00063]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [JPPJLJMK_00062]
putative ABC transporter ATP-binding protein YsiT [JPPJLJMK_00061]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [JPPJLJMK_00056]
MICPF_chromosome_2000199[45,0]1[5]1 72,427kb
(61380) family transporter [KJFABCCF_00064]
Safi family ABC-F type ribosomal protection protein [NFO0189.2] [KJFABCCF_00063]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [KJFABCCF_00064]
MICPF_chromosome_2000199[46,0]1[5]1 72,427kb
(61380) family transporter [KJFABCCF_00055]
Safi family ABC-F type ribosomal protection protein [NFO0189.2] [KJFABCCF_00054]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [KJFABCCF_00055]
MICPF_chromosome_2000199[47,0]1[5]1 72,427kb
(61380) family transporter [FNHKCINF_00059]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [FNHKCINF_00059]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [FNHKCINF_00058]
putative ABC transporter ATP-binding protein YsiT [FNHKCINF_00057]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [FNHKCINF_00052]
MICPF_chromosome_2000199[48,0]1[5]1 72,427kb
(61380) family transporter [FBEHCHHG_00067]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [FBEHCHHG_00067]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [FBEHCHHG_00066]
Safi family ABC-F type ribosomal protection protein [NFO0189.2] [FBEHCHHG_00065]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [FBEHCHHG_00060]
MICPF_chromosome_2000199[49,0]1[5]1 72,427kb
(61380) family transporter [ENJAMMJN_00057]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [ENJAMMJN_00058]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [ENJAMMJN_00057]
Safi family ABC-F type ribosomal protection protein [NFO0189.2] [ENJAMMJN_00056]
macrolide efflux MFS transporter MefA/ [NFO0245] [ENJAMMJN_00060]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [ENJAMMJN_00057]
MICPF_chromosome_2000199[50,0]1[5]1 72,427kb
(61380) family transporter [ENJAMMJN_00053]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [ENJAMMJN_00053]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [ENJAMMJN_00052]
Safi family ABC-F type ribosomal protection protein [NFO0189.2] [ENJAMMJN_00051]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [ENJAMMJN_00053]
MICPF_chromosome_2000199[51,0]1[5]1 72,427kb
(61380) family transporter [JDDAOEPA_00012]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [JDDAOEPA_00012]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [JDDAOEPA_00011]
Safi family ABC-F type ribosomal protection protein [NFO0189.2] [JDDAOEPA_00010]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [JDDAOEPA_00013]
MICPF_chromosome_2000199[52,0]1[5]1 72,427kb
(61380) family transporter [BBBEPDBE_00015]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [BBBEPDBE_00016]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [BBBEPDBE_00015]
Safi family ABC-F type ribosomal protection protein [NFO0189.2] [BBBEPDBE_00014]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [BBBEPDBE_00012]
MICPF_chromosome_2000199[53,0]1[5]1 72,427kb
(61380) family transporter [GMAPLNIB_00006]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [GMAPLNIB_00006]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [GMAPLNIB_00005]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [GMAPLNIB_00015]
MICPF_chromosome_2000199[54,0]1[5]1 72,427kb
(61380) family transporter [GMAPLNIB_00014]
(56) family transporter [FLLKFBIO_00008]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [FLLKFBIO_00008]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [FLLKFBIO_00007]
macrolide efflux MFS transporter MefA/ [NFO0245] [FLLKFBIO_00009] (61380) family transporter [FLLKFBIO_00013]
macrolide efflux MFS transporter MefA/ [NFO0245] [FLLKFBIO_00010]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [FLLKFBIO_00007]
MICPF_chromosome_2000199[55,0]1[5]1 72,427kb
(61380) family transporter [FBCDHMPP_00006]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [FBCDHMPP_00006]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [FBCDHMPP_00007]
Safi family ABC-F type ribosomal protection protein [NFO0189.2] [FBCDHMPP_00008]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [FBCDHMPP_00014]
multidrug efflux RND transporter periplasmic adaptor subunit MexE [NFO0237] [FBCDHMPP_00011]
(61380) family transporter [FBCDHMPP_00010]
MICPF_chromosome_2000199[56,0]1[5]1 72,427kb
(61380) family transporter [GHDGGFNL_00003]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [GHDGGFNL_00003]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [GHDGGFNL_00002]
(61380) family transporter [GHDGGFNL_00001]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [GHDGGFNL_00004]
MICPF_chromosome_2000199[57,0]1[5]1 72,427kb
(61380) family transporter [GMAPLNIB_00007]
(56) family transporter [FLLKFBIO_00014]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [GMAPLNIB_00006]
MICPF_chromosome_2000199[58,0]1[5]1 72,427kb
(61380) family transporter [EDMDJNFH_00002]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [EDMDJNFH_00002]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [EDMDJNFH_00001]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [EDMDJNFH_00001]
MICPF_chromosome_2000199[59,0]1[5]1 72,427kb
(61380) family transporter [EDMDJNFH_00015]
235 rRNA (adenine(2058)-N6)-methyltransferase ErmF [NFO2223] [EDMDJNFH_00015]
2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial [EDMDJNFH_00014]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [EDMDJNFH_00016]
MICPF_chromosome_2000199[60,0]1[5]1 72,427kb
(61380) family transporter [IMEGLMFA_00005]
Glutamine--fructose-6-phosphate aminotransferase [isomerizing] [IMEGLMFA_00005]
MICPF_chromosome_2000199[61,0]1[5]1 72,427kb
anti-CRISPR Cas (AcrIIA5) [ABFBCAEA_00006]
MICPF_chromosome_2000199[62,0]1[5]1 72,427kb
9000 ⊕
Genes Virulence Anti-defence AMR