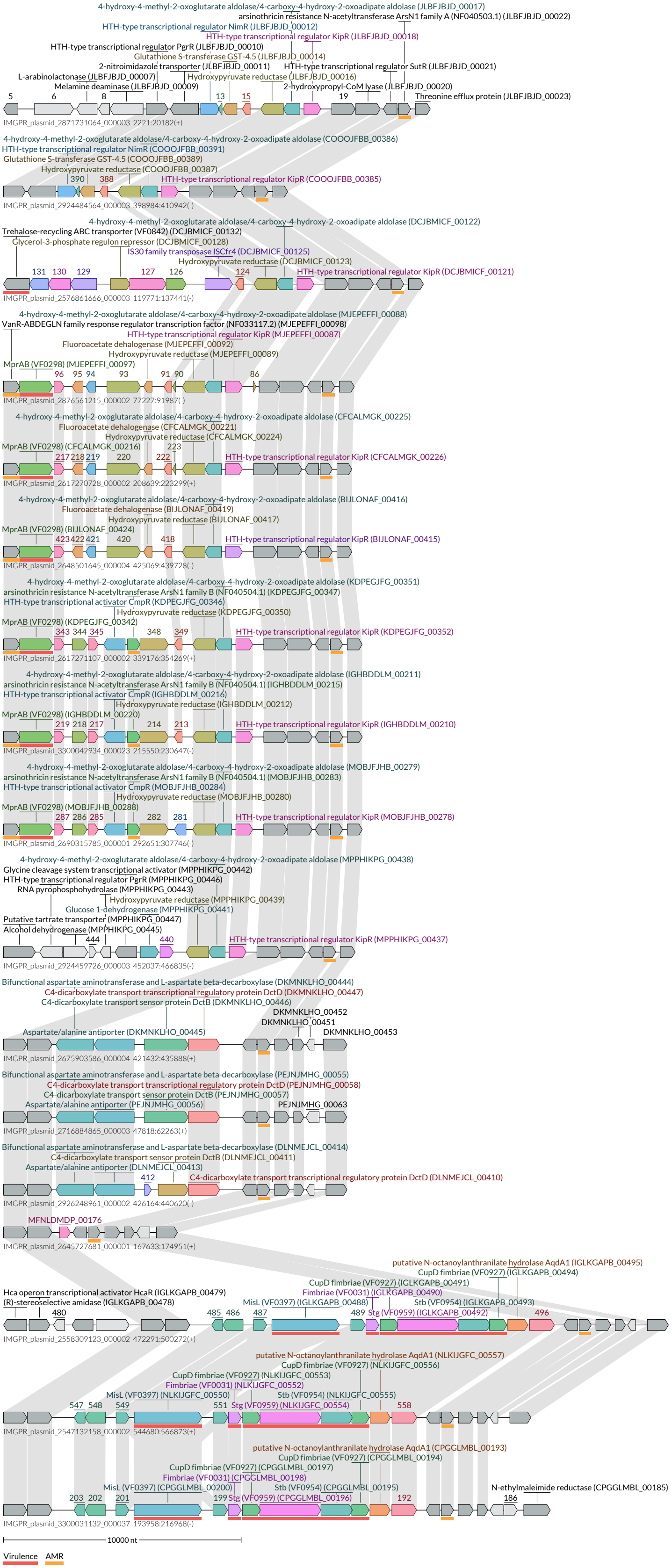
4-hydroxy-4-methyl-2-oxoglutarate aldolase/4-carboxy-4-hydroxy-2-oxoadipate aldolase (JLBFJBJD_00017)
arsinothricin resistance N-acetyltransferase ArsN1 family A (NF040503.1) (JLBFJBJD_00022)
HTH-type transcriptional regulator NimR (JLBFJBJD_00012)
HTH-type transcriptional regulator KipR (JLBFJBJD_00018)
HTH-type transcriptional regulator PgrR (JLBFJBJD_00010)
Glutathione S-transferase GST-4.5 (JLBFJBJD_00014)
2-nitroimidazole transporter (JLBFJBJD_00011)
HTH-type transcriptional regulator SutR (JLBFJBJD_00021)
L-arabinolactonase (JLBFJBJD_00007)
Hydroxypyruvate reductase (JLBFJBJD_00016)
Melamine deaminase (JLBFJBJD_00009)
2-hydroxypropyl-CoM lyase (JLBFJBJD_00020)
5 6 8 13 15 19
Threonine efflux protein (JLBFJBJD_00023)
IMGPR_plasmid_2871731064_000003 2221:20182(+)
4-hydroxy-4-methyl-2-oxoglutarate aldolase/4-carboxy-4-hydroxy-2-oxoadipate aldolase (COOOJFBB_00386)
HTH-type transcriptional regulator NimR (COOOJFBB_00391)
Glutathione S-transferase GST-4.5 (COOOJFBB_00389)
Hydroxypyruvate reductase (COOOJFBB_00387)
390 388
HTH-type transcriptional regulator KipR (COOOJFBB_00385)
IMGPR_plasmid_2924484564_000003 398984:410942(-)
4-hydroxy-4-methyl-2-oxoglutarate aldolase/4-carboxy-4-hydroxy-2-oxoadipate aldolase (DCJBMICF_00122)
Trehalose-recycling ABC transporter (VF0842) (DCJBMICF_00132)
Glycerol-3-phosphate regulon repressor (DCJBMICF_00128)
IS30 family transposase ISCfr4 (DCJBMICF_00125)
Hydroxypyruvate reductase (DCJBMICF_00123)
131 130 129 127 126 124
HTH-type transcriptional regulator KipR (DCJBMICF_00121)
IMGPR_plasmid_2576861666_000003 119771:137441(-)
4-hydroxy-4-methyl-2-oxoglutarate aldolase/4-carboxy-4-hydroxy-2-oxoadipate aldolase (MJEPEFFI_00088)
VanR-ABDEGLN family response regulator transcription factor (NF033117.2) (MJEPEFFI_00098)
HTH-type transcriptional regulator KipR (MJEPEFFI_00087)
Fluoroacetate dehalogenase (MJEPEFFI_00092)
Hydroxypyruvate reductase (MJEPEFFI_00089)
MprAB (VF0298) (MJEPEFFI_00097)
96 95 94 93 91 90 86
IMGPR_plasmid_2876561215_000002 77227:91987(-)
4-hydroxy-4-methyl-2-oxoglutarate aldolase/4-carboxy-4-hydroxy-2-oxoadipate aldolase (CFCALMGK_00225)
Fluoroacetate dehalogenase (CFCALMGK_00221)
Hydroxypyruvate reductase (CFCALMGK_00224)
MprAB (VF0298) (CFCALMGK_00216)
223
217 218 219 220 222
HTH-type transcriptional regulator KipR (CFCALMGK_00226)
IMGPR_plasmid_2617270728_000002 208639:223299(+)
4-hydroxy-4-methyl-2-oxoglutarate aldolase/4-carboxy-4-hydroxy-2-oxoadipate aldolase (BIJLONAF_00416)
Fluoroacetate dehalogenase (BIJLONAF_00419)
Hydroxypyruvate reductase (BIJLONAF_00417)
MprAB (VF0298) (BIJLONAF_00424)
423 422 421 420 418
HTH-type transcriptional regulator KipR (BIJLONAF_00415)
IMGPR_plasmid_2648501645_000004 425069:439728(-)
4-hydroxy-4-methyl-2-oxoglutarate aldolase/4-carboxy-4-hydroxy-2-oxoadipate aldolase (KDPEGJFG_00351)
arsinothricin resistance N-acetyltransferase ArsN1 family B (NF040504.1) (KDPEGJFG_00347)
HTH-type transcriptional activator CmpR (KDPEGJFG_00346)
Hydroxypyruvate reductase (KDPEGJFG_00350)
MprAB (VF0298) (KDPEGJFG_00342)
343 344 345 348 349
HTH-type transcriptional regulator KipR (KDPEGJFG_00352)
IMGPR_plasmid_2617271107_000002 339176:354269(+)
4-hydroxy-4-methyl-2-oxoglutarate aldolase/4-carboxy-4-hydroxy-2-oxoadipate aldolase (IGHBDDLM_00211)
arsinothricin resistance N-acetyltransferase ArsN1 family B (NF040504.1) (IGHBDDLM_00215)
HTH-type transcriptional activator CmpR (IGHBDDLM_00216)
Hydroxypyruvate reductase (IGHBDDLM_00212)
MprAB (VF0298) (IGHBDDLM_00220)
219 218 217 214 213
HTH-type transcriptional regulator KipR (IGHBDDLM_00210)
IMGPR_plasmid_3300042934_000023 215550:230647(-)
4-hydroxy-4-methyl-2-oxoglutarate aldolase/4-carboxy-4-hydroxy-2-oxoadipate aldolase (MOBJFJHB_00279)
arsinothricin resistance N-acetyltransferase ArsN1 family B (NF040504.1) (MOBJFJHB_00283)
HTH-type transcriptional activator CmpR (MOBJFJHB_00284)
Hydroxypyruvate reductase (MOBJFJHB_00280)
MprAB (VF0298) (MOBJFJHB_00288)
287 286 285 282 281
HTH-type transcriptional regulator KipR (MOBJFJHB_00278)
IMGPR_plasmid_2690315785_000001 292651:307746(-)
4-hydroxy-4-methyl-2-oxoglutarate aldolase/4-carboxy-4-hydroxy-2-oxoadipate aldolase (MPPHIKPG_00438)
Glycine cleavage system transcriptional activator (MPPHIKPG_00442)
HTH-type transcriptional regulator PgrR (MPPHIKPG_00446)
RNA pyrophosphohydrolase (MPPHIKPG_00443)
Hydroxypyruvate reductase (MPPHIKPG_00439)
Glucose 1-dehydrogenase (MPPHIKPG_00441)
Putative tartrate transporter (MPPHIKPG_00447)
Alcohol dehydrogenase (MPPHIKPG_00445)
444 440
HTH-type transcriptional regulator KipR (MPPHIKPG_00437)
IMGPR_plasmid_2924459726_000003 452037:466835(-)
Bifunctional aspartate aminotransferase and L-aspartate beta-decarboxylase (DKMNKLHO_00444)
C4-dicarboxylate transport transcriptional regulatory protein DctD (DKMNKLHO_00447)
C4-dicarboxylate transport sensor protein DctB (DKMNKLHO_00446)
DKMNKLHO_00452
DKMNKLHO_00451
Aspartate/alanine antiporter (DKMNKLHO_00445)
DKMNKLHO_00453
IMGPR_plasmid_2675903586_000004 421432:435888(+)
Bifunctional aspartate aminotransferase and L-aspartate beta-decarboxylase (PEJNJMHG_00055)
C4-dicarboxylate transport transcriptional regulatory protein DctD (PEJNJMHG_00058)
C4-dicarboxylate transport sensor protein DctB (PEJNJMHG_00057)
Aspartate/alanine antiporter (PEJNJMHG_00056)
PEJNJMHG_00063
IMGPR_plasmid_2716884865_000003 47818:62263(+)
Bifunctional aspartate aminotransferase and L-aspartate beta-decarboxylase (DLNMEJCL_00414)
C4-dicarboxylate transport sensor protein DctB (DLNMEJCL_00411)
Aspartate/alanine antiporter (DLNMEJCL_00413)
412
C4-dicarboxylate transport transcriptional regulatory protein DctD (DLNMEJCL_00410)
IMGPR_plasmid_2926248961_000002 426164:440620(-)
MFNLDMDP_00176
IMGPR_plasmid_2645727681_000001 167633:174951(+)
putative N-octanoylanthranilate hydrolase AqdA1 (IGLKGAPB_00495)
CupD fimbriae (VF0927) (IGLKGAPB_00494)
CupD fimbriae (VF0927) (IGLKGAPB_00491)
Fimbriae (VF0031) (IGLKGAPB_00490)
Hca operon transcriptional activator HcaR (IGLKGAPB_00479)
(R)-stereoselective amidase (IGLKGAPB_00478)
MisL (VF0397) (IGLKGAPB_00488)
Stb (VF0954) (IGLKGAPB_00493)
480 485 486 487 489 Stg (VF0959) (IGLKGAPB_00492) 496
IMGPR_plasmid_2558309123_000002 472291:500272(+)
putative N-octanoylanthranilate hydrolase AqdA1 (NLKIJGFC_00557)
CupD fimbriae (VF0927) (NLKIJGFC_00556)
CupD fimbriae (VF0927) (NLKIJGFC_00553)
Fimbriae (VF0031) (NLKIJGFC_00552)
MisL (VF0397) (NLKIJGFC_00550)
Stb (VF0954) (NLKIJGFC_00555)
547 548 549 551 Stg (VF0959) (NLKIJGFC_00554) 558
IMGPR_plasmid_2547132158_000002 544680:566873(+)
putative N-octanoylanthranilate hydrolase AqdA1 (CPGGLMBL_00193)
CupD fimbriae (VF0927) (CPGGLMBL_00194)
CupD fimbriae (VF0927) (CPGGLMBL_00197)
Fimbriae (VF0031) (CPGGLMBL_00198)
MisL (VF0397) (CPGGLMBL_00200)
Stb (VF0954) (CPGGLMBL_00195)
N-ethylmaleimide reductase (CPGGLMBL_00185)
203 202 201 199 Stg (VF0959) (CPGGLMBL_00196) 192 186
IMGPR_plasmid_3300031132_000037 193958:216968(-)
10000 nt
Virulence
AMR