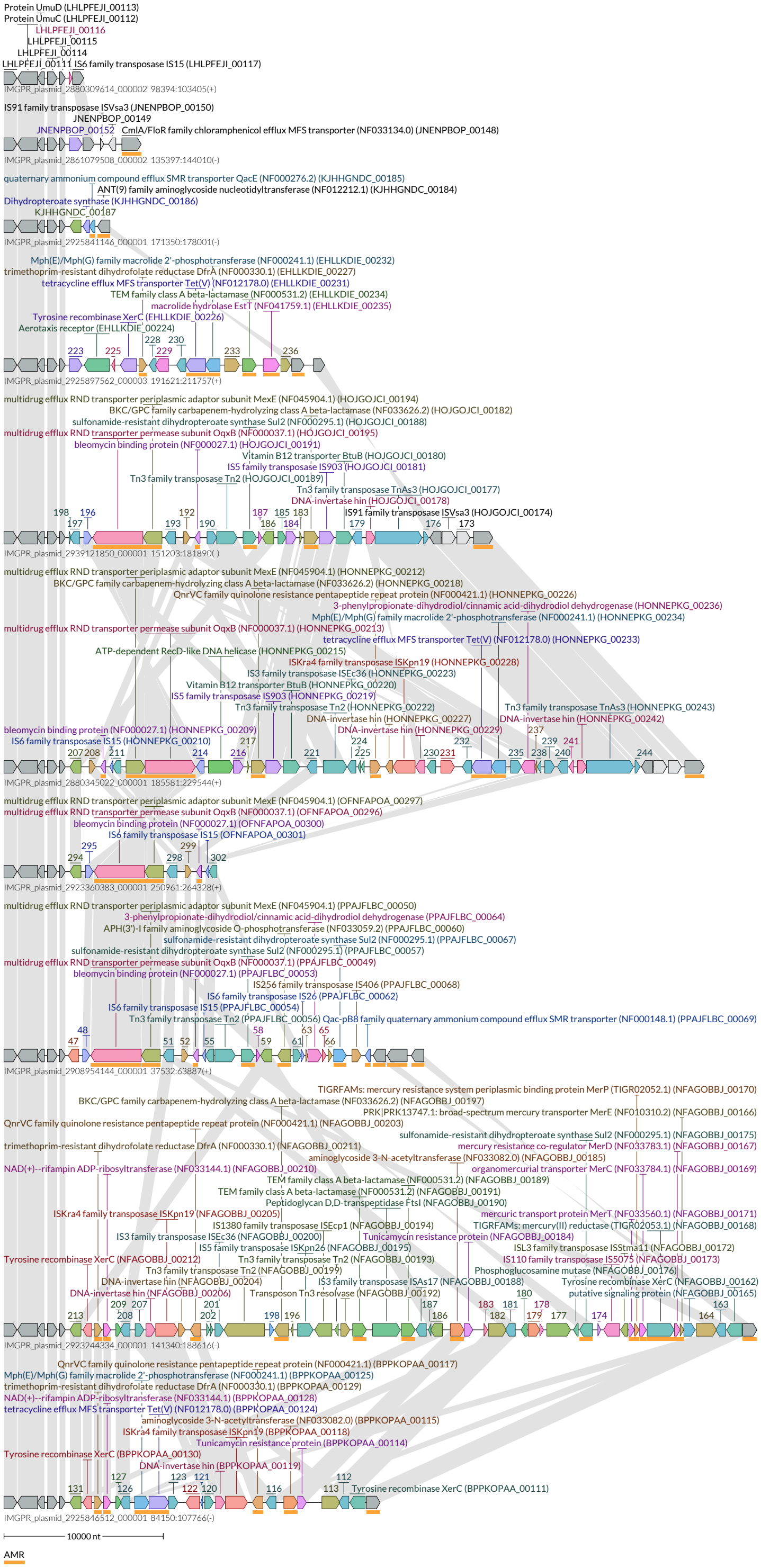
Protein UmuD (LHLPFEJI_00113)
Protein UmuC (LHLPFEJI_00112)
LHLPFEJI_00116
LHLPFEJI_00115
LHLPFEJI_00114
LHLPFEJI_00111 IS6 family transposase IS15 (LHLPFEJI_00117)
IMGPR_plasmid_2880309614_000002 98394:103405(+)
IS91 family transposase ISVsa3 (JNENPBOP_00150)
JNENPBOP_00149
JNENPBOP_00152 CmlA/FloR family chloramphenicol efflux MFS transporter (NF033134.0) (JNENPBOP_00148)
IMGPR_plasmid_2861079508_000002 135397:144010(-)
quaternary ammonium compound efflux SMR transporter QacE (NF000276.2) (KJHHGNDC_00185)
ANT(9) family aminoglycoside nucleotidyltransferase (NF012212.1) (KJHHGNDC_00184)
Dihydropteroate synthase (KJHHGNDC_00186)
KJHHGNDC_00187
IMGPR_plasmid_2925841146_000001 171350:178001(-)
Mph(E)/Mph(G) family macrolide 2'-phosphotransferase (NF000241.1) (EHLLKDIE_00232)
trimethoprim-resistant dihydrofolate reductase DfrA (NF000330.1) (EHLLKDIE_00227)
tetracycline efflux MFS transporter Tet(V) (NF012178.0) (EHLLKDIE_00231)
TEM family class A beta-lactamase (NF000531.2) (EHLLKDIE_00234)
macrolide hydrolase EstT (NF041759.1) (EHLLKDIE_00235)
Tyrosine recombinase XerC (EHLLKDIE_00226)
Aerotaxis receptor (EHLLKDIE_00224)
223 225 228 229 230 233 236
IMGPR_plasmid_2925897562_000003 191621:211757(+)
multidrug efflux RND transporter periplasmic adaptor subunit MexE (NF045904.1) (HOJGOJCI_00194)
BKC/GPC family carbapenem-hydrolyzing class A beta-lactamase (NF033626.2) (HOJGOJCI_00182)
sulfonamide-resistant dihydropteroate synthase Sul2 (NF000295.1) (HOJGOJCI_00188)
multidrug efflux RND transporter permease subunit OqxB (NF000037.1) (HOJGOJCI_00195)
bleomycin binding protein (NF000027.1) (HOJGOJCI_00191)
Vitamin B12 transporter BtuB (HOJGOJCI_00180)
IS5 family transposase IS903 (HOJGOJCI_00181)
Tn3 family transposase Tn2 (HOJGOJCI_00189)
Tn3 family transposase TnAs3 (HOJGOJCI_00177)
DNA-invertase hin (HOJGOJCI_00178)
IS91 family transposase ISVsa3 (HOJGOJCI_00174)
198 196 197 192 193 190 187 185 183 186 184 179 176 173
IMGPR_plasmid_2939121850_000001 151203:181890(-)
multidrug efflux RND transporter periplasmic adaptor subunit MexE (NF045904.1) (HONNEPKG_00212)
BKC/GPC family carbapenem-hydrolyzing class A beta-lactamase (NF033626.2) (HONNEPKG_00218)
QnrVC family quinolone resistance pentapeptide repeat protein (NF000421.1) (HONNEPKG_00226)
3-phenylpropionate-dihydrodiol/cinnamic acid-dihydrodiol dehydrogenase (HONNEPKG_00236)
Mph(E)/Mph(G) family macrolide 2'-phosphotransferase (NF000241.1) (HONNEPKG_00234)
multidrug efflux RND transporter permease subunit OqxB (NF000037.1) (HONNEPKG_00213)
tetracycline efflux MFS transporter Tet(V) (NF012178.0) (HONNEPKG_00233)
ATP-dependent RecD-like DNA helicase (HONNEPKG_00215)
ISKra4 family transposase ISKpn19 (HONNEPKG_00228)
IS3 family transposase ISEc36 (HONNEPKG_00223)
Vitamin B12 transporter BtuB (HONNEPKG_00220)
IS5 family transposase IS903 (HONNEPKG_00219)
Tn3 family transposase Tn2 (HONNEPKG_00222)
Tn3 family transposase TnAs3 (HONNEPKG_00243)
DNA-invertase hin (HONNEPKG_00227)
DNA-invertase hin (HONNEPKG_00242)
bleomycin binding protein (NF000027.1) (HONNEPKG_00209)
DNA-invertase hin (HONNEPKG_00229)
IS6 family transposase IS15 (HONNEPKG_00210)
207 208 211 214 216 217 221 224 225 230 231 232 235 237 238 239 240 241 244
IMGPR_plasmid_2880345022_000001 185581:229544(+)
multidrug efflux RND transporter periplasmic adaptor subunit MexE (NF045904.1) (OFNFAPOA_00297)
multidrug efflux RND transporter permease subunit OqxB (NF000037.1) (OFNFAPOA_00296)
bleomycin binding protein (NF000027.1) (OFNFAPOA_00300)
IS6 family transposase IS15 (OFNFAPOA_00301)
294 295 298 299 302
IMGPR_plasmid_2923360383_000001 250961:264328(+)
multidrug efflux RND transporter periplasmic adaptor subunit MexE (NF045904.1) (PPAJFLBC_00050)
3-phenylpropionate-dihydrodiol/cinnamic acid-dihydrodiol dehydrogenase (PPAJFLBC_00064)
APH(3')-I family aminoglycoside O-phosphotransferase (NF033059.2) (PPAJFLBC_00060)
sulfonamide-resistant dihydropteroate synthase Sul2 (NF000295.1) (PPAJFLBC_00067)
sulfonamide-resistant dihydropteroate synthase Sul2 (NF000295.1) (PPAJFLBC_00057)
multidrug efflux RND transporter permease subunit OqxB (NF000037.1) (PPAJFLBC_00049)
bleomycin binding protein (NF000027.1) (PPAJFLBC_00053)
IS256 family transposase IS406 (PPAJFLBC_00068)
IS6 family transposase IS26 (PPAJFLBC_00062)
IS6 family transposase IS15 (PPAJFLBC_00054)
Tn3 family transposase Tn2 (PPAJFLBC_00056)
Qac-pB8 family quaternary ammonium compound efflux SMR transporter (NF000148.1) (PPAJFLBC_00069)
47 48 51 52 55 58 59 61 63 65 66
IMGPR_plasmid_2908954144_000001 37532:63887(+)
TIGRFAMs: mercury resistance system periplasmic binding protein MerP (TIGR02052.1) (NFAGOBBJ_00170)
BKC/GPC family carbapenem-hydrolyzing class A beta-lactamase (NF033626.2) (NFAGOBBJ_00197)
PRK|PRK13747.1: broad-spectrum mercury transporter MerE (NF010310.2) (NFAGOBBJ_00166)
QnrVC family quinolone resistance pentapeptide repeat protein (NF000421.1) (NFAGOBBJ_00203)
sulfonamide-resistant dihydropteroate synthase Sul2 (NF000295.1) (NFAGOBBJ_00175)
trimethoprim-resistant dihydrofolate reductase DfrA (NF000330.1) (NFAGOBBJ_00211)
mercury resistance co-regulator MerD (NF033783.1) (NFAGOBBJ_00167)
aminoglycoside 3-N-acetyltransferase (NF033082.0) (NFAGOBBJ_00185)
NAD(+)--rifampin ADP-ribosyltransferase (NF033144.1) (NFAGOBBJ_00210)
organomercurial transporter MerC (NF033784.1) (NFAGOBBJ_00169)
TEM family class A beta-lactamase (NF000531.2) (NFAGOBBJ_00189)
TEM family class A beta-lactamase (NF000531.2) (NFAGOBBJ_00191)
Peptidoglycan D,D-transpeptidase FtsI (NFAGOBBJ_00190)
ISKra4 family transposase ISKpn19 (NFAGOBBJ_00205)
mercuric transport protein MerT (NF033560.1) (NFAGOBBJ_00171)
IS1380 family transposase ISEcp1 (NFAGOBBJ_00194)
TIGRFAMs: mercury(II) reductase (TIGR02053.1) (NFAGOBBJ_00168)
IS3 family transposase ISEc36 (NFAGOBBJ_00200)
Tunicamycin resistance protein (NFAGOBBJ_00184)
IS5 family transposase ISKpn26 (NFAGOBBJ_00195)
ISL3 family transposase ISStma11 (NFAGOBBJ_00172)
Tyrosine recombinase XerC (NFAGOBBJ_00212)
Tn3 family transposase Tn2 (NFAGOBBJ_00193)
IS110 family transposase IS5075 (NFAGOBBJ_00173)
Tn3 family transposase Tn2 (NFAGOBBJ_00199)
Phosphoglucosamine mutase (NFAGOBBJ_00176)
DNA-invertase hin (NFAGOBBJ_00204)
IS3 family transposase ISAs17 (NFAGOBBJ_00188)
Tyrosine recombinase XerC (NFAGOBBJ_00162)
DNA-invertase hin (NFAGOBBJ_00206)
Transposon Tn3 resolvase (NFAGOBBJ_00192)
putative signaling protein (NFAGOBBJ_00165)
213 209 207 208 201 202 198 196 187 186 183 181 182 180 178 179 177 174 164 163
IMGPR_plasmid_2923244334_000001 141340:188616(-)
QnrVC family quinolone resistance pentapeptide repeat protein (NF000421.1) (BPPKOPAA_00117)
Mph(E)/Mph(G) family macrolide 2'-phosphotransferase (NF000241.1) (BPPKOPAA_00125)
trimethoprim-resistant dihydrofolate reductase DfrA (NF000330.1) (BPPKOPAA_00129)
NAD(+)--rifampin ADP-ribosyltransferase (NF033144.1) (BPPKOPAA_00128)
tetracycline efflux MFS transporter Tet(V) (NF012178.0) (BPPKOPAA_00124)
aminoglycoside 3-N-acetyltransferase (NF033082.0) (BPPKOPAA_00115)
ISKra4 family transposase ISKpn19 (BPPKOPAA_00118)
Tunicamycin resistance protein (BPPKOPAA_00114)
Tyrosine recombinase XerC (BPPKOPAA_00130)
DNA-invertase hin (BPPKOPAA_00119)
131 127 126 123 122 121 120 116 113 112
Tyrosine recombinase XerC (BPPKOPAA_00111)
IMGPR_plasmid_2925846512_000001 84150:107766(-)
10000 nt
AMR