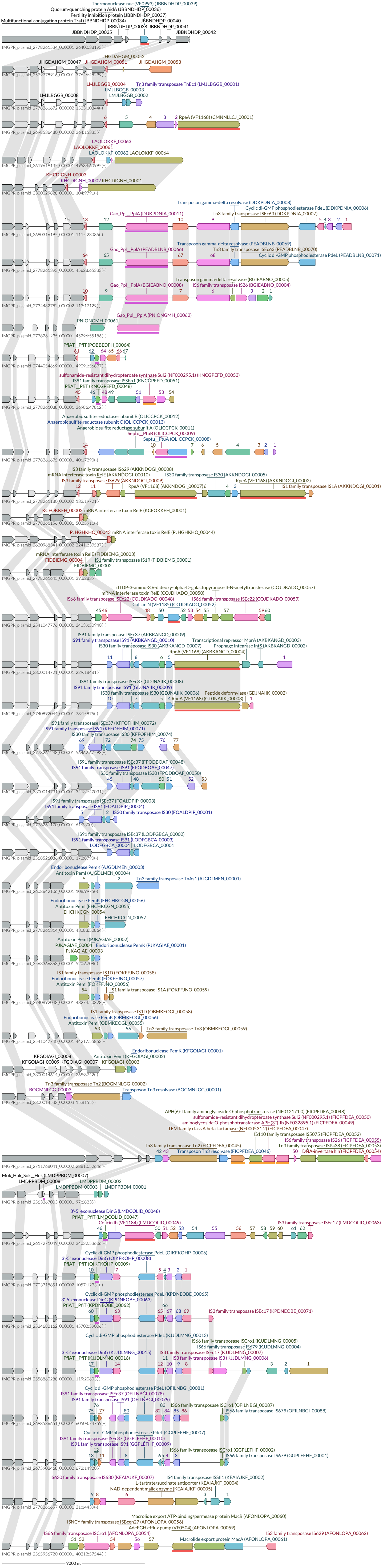
Thermonuclease nuc (VF0993) (JBBNDHDP_00039)
Quorum-quenching protein AidA (JBBNDHDP_00036)
Fertility inhibition protein (JBBNDHDP_00037)
Multifunctional conjugation protein TraI (JBBNDHDP_00034)
JBBNDHDP_00040
JBBNDHDP_00038
JBBNDHDP_00041
JBBNDHDP_00035
JBBNDHDP_00042
IMGPR_plasmid_2778261534_000001 26400:38193(+)
JHGDAHGM_00052
JHGDAHGM_00047
JHGDAHGM_00051
JHGDAHGM_00053
IMGPR_plasmid_2579778916_000001 37646:48299(+)
LMJLBGGB_00004
Tn3 family transposase TnEc1 (LMJLBGGB_00001)
LMJLBGGB_00003
LMJLBGGB_00008
LMJLBGGB_00002
IMGPR_plasmid_2778261672_000002 1523:10344(-)
6
5
4
3
2
RpeA (VF1168) (CMNNLLCJ_00001)
IMGPR_plasmid_2698536480_000002 364:15335(-)
LAOLOKKF_00063
LAOLOKKF_00061
LAOLOKKF_00062
LAOLOKKF_00064
IMGPR_plasmid_2619619135_000001 49584:60995(+)
KHCDIGNH_00003
KHCDIGNH_00002
KHCDIGNH_00001
IMGPR_plasmid_3300029828_000001 104:9791(-)
Transposon gamma-delta resolvase (DDKPDNIA_00008)
Cyclic di-GMP phosphodiesterase PdeL (DDKPDNIA_00006)
Gao_Ppl__PplA (DDKPDNIA_00011)
Tn3 family transposase ISEc63 (DDKPDNIA_00007)
15
13
12
10
9
5
4
3
2
1
IMGPR_plasmid_2690316195_000001 1115:23085(-)
Transposon gamma-delta resolvase (PEADBLNB_00069)
Gao_Ppl__PplA (PEADBLNB_00066)
Tn3 family transposase ISEc63 (PEADBLNB_00070)
Cyclic di-GMP phosphodiesterase PdeL (PEADBLNB_00071)
64
65
67
68
IMGPR_plasmid_2778261393_000001 45628:65333(+)
Transposon gamma-delta resolvase (BGIEABNO_00005)
Gao_Ppl__PplA (BGIEABNO_00008)
IS6 family transposase IS26 (BGIEABNO_00004)
10
9
7
6
3
2
1
IMGPR_plasmid_2734482782_000002 113:17129(-)
Gao_Ppl__PplA (PNIONGMH_00062)
PNIONGMH_00061
IMGPR_plasmid_2778261295_000001 45296:55186(+)
PfiAT__PfiT (POBBEDFH_00064)
61
62
64
65
66
67
IMGPR_plasmid_2744054669_000001 49091:56897(+)
sulfonamide-resistant dihydropteroate synthase Sul2 (NF000295.1) (KNCGPEFD_00053)
IS91 family transposase ISSbo1 (KNCGPEFD_00051)
PfiAT__PfiT (KNCGPEFD_00048)
45
46
48
49
51
53
54
IMGPR_plasmid_2778261088_000001 36986:47812(+)
Anaerobic sulfite reductase subunit B (OLICCPCK_00012)
Anaerobic sulfite reductase subunit C (OLICCPCK_00013)
Anaerobic sulfite reductase subunit A (OLICCPCK_00011)
Septu__PtuB (OLICCPCK_00009)
Septu__PtuA (OLICCPCK_00008)
14
10
7
6
5
4
3
2
1
IMGPR_plasmid_2778261675_000001 40:17290(-)
IS3 family transposase IS629 (AKKNDOGI_00008)
mRNA interferase toxin RelE (AKKNDOGI_00010)
IS30 family transposase IS30 (AKKNDOGI_00005)
IS3 family transposase IS629 (AKKNDOGI_00009)
RpeA (VF1168) (AKKNDOGI_00002)
12
11
RpeA (VF1168) (AKKNDOGI_00007)
6
4
3
IS1 family transposase IS1A (AKKNDOGI_00001)
IMGPR_plasmid_2778261180_000002 133:19721(-)
KCEOKKEH_00002
mRNA interferase toxin RelE (KCEOKKEH_00001)
IMGPR_plasmid_2778261156_000001 502:5911(-)
PJHGHKHO_00043
mRNA interferase toxin RelE (PJHGHKHO_00044)
IMGPR_plasmid_2630968341_000002 32411:39587(+)
mRNA interferase toxin RelE (FIDBIEMG_00003)
FIDBIEMG_00004
IS1 family transposase IS1R (FIDBIEMG_00001)
FIDBIEMG_00002
IMGPR_plasmid_2778261645_000001 39:6283(-)
dTDP-3-amino-3,6-dideoxy-alpha-D-galactopyranose 3-N-acetyltransferase (COJDKADO_00057)
mRNA interferase toxin RelE (COJDKADO_00050)
IS66 family transposase ISEc22 (COJDKADO_00048)
IS66 family transposase ISEc22 (COJDKADO_00059)
Colicin N (VF1185) (COJDKADO_00052)
45
46
48
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52
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57
59
60
IMGPR_plasmid_2541047776_000001 34039:50940(+)
IS91 family transposase ISEc37 (AKBKANGD_00009)
IS91 family transposase IS91 (AKBKANGD_00010)
Transcriptional repressor MprA (AKBKANGD_00003)
IS30 family transposase IS30 (AKBKANGD_00007)
Prophage integrase IntS (AKBKANGD_00002)
RpeA (VF1168) (AKBKANGD_00004)
11
8
6
5
1
IMGPR_plasmid_3300014721_000001 229:18481(-)
IS91 family transposase ISEc37 (GDJNAIIK_00008)
IS91 family transposase IS91 (GDJNAIIK_00009)
IS30 family transposase IS30 (GDJNAIIK_00006)
Peptide deformylase (GDJNAIIK_00002)
10
7
5
4
RpeA (VF1168) (GDJNAIIK_00003)
1
IMGPR_plasmid_2740892044_000001 78:15875(-)
IS91 family transposase ISEc37 (KFFOFHIM_00072)
IS91 family transposase IS91 (KFFOFHIM_00071)
IS30 family transposase IS30 (KFFOFHIM_00074)
69
72
74
75
76
77
IMGPR_plasmid_2778261248_000001 56462:67593(+)
IS91 family transposase ISEc37 (FPODBOAF_00048)
IS91 family transposase IS91 (FPODBOAF_00047)
IS30 family transposase IS30 (FPODBOAF_00050)
45
48
50
51
52
53
IMGPR_plasmid_3300014731_000001 34131:47031(+)
IS91 family transposase ISEc37 (FOALDPIP_00003)
IS91 family transposase IS91 (FOALDPIP_00004)
5
2
IS30 family transposase IS30 (FOALDPIP_00001)
IMGPR_plasmid_2778261170_000001 61:7300(-)
IS91 family transposase ISEc37 (LODFGBCA_00002)
IS91 family transposase IS91 (LODFGBCA_00003)
LODFGBCA_00004
LODFGBCA_00001
IMGPR_plasmid_2568526086_000001 172:8790(-)
Endoribonuclease PemK (AJGDLMEN_00003)
Antitoxin PemI (AJGDLMEN_00004)
5
2
Tn3 family transposase TnAs1 (AJGDLMEN_00001)
IMGPR_plasmid_2608642106_000001 108:9975(-)
Endoribonuclease PemK (EHCHKCGN_00056)
Antitoxin PemI (EHCHKCGN_00055)
EHCHKCGN_00054
EHCHKCGN_00057
IMGPR_plasmid_2778261314_000001 43083:50864(+)
Antitoxin PemI (PJKAGIAE_00002)
PJKAGIAE_00004
Endoribonuclease PemK (PJKAGIAE_00001)
PJKAGIAE_00003
IMGPR_plasmid_2563366863_000001 520:6708(-)
IS1 family transposase IS1D (FOKFFJNO_00058)
Endoribonuclease PemK (FOKFFJNO_00057)
Antitoxin PemI (FOKFFJNO_00056)
54
IS1 family transposase IS1A (FOKFFJNO_00059)
IMGPR_plasmid_2740892048_000001 43274:50328(+)
IS1 family transposase IS1D (OBMKEOGL_00058)
Endoribonuclease PemK (OBMKEOGL_00056)
Antitoxin PemI (OBMKEOGL_00055)
53
56
Tn3 family transposase Tn3 (OBMKEOGL_00059)
IMGPR_plasmid_2541047740_000001 44217:55853(+)
Endoribonuclease PemK (KFGOIAGI_00001)
KFGOIAGI_00008
Antitoxin PemI (KFGOIAGI_00002)
KFGOIAGI_00009
KFGOIAGI_00007
KFGOIAGI_00003
IMGPR_plasmid_3300014614_000001 269:8742(-)
Tn3 family transposase Tn2 (BOGMNLGG_00002)
BOGMNLGG_00003
Transposon Tn3 resolvase (BOGMNLGG_00001)
IMGPR_plasmid_3300014533_000003 15:8155(-)
APH(6)-I family aminoglycoside O-phosphotransferase (NF012171.0) (FICPFDEA_00048)
sulfonamide-resistant dihydropteroate synthase Sul2 (NF000295.1) (FICPFDEA_00050)
aminoglycoside O-phosphotransferase APH(3'')-Ib (NF032895.1) (FICPFDEA_00049)
TEM family class A beta-lactamase (NF000531.2) (FICPFDEA_00047)
IS110 family transposase IS5075 (FICPFDEA_00052)
IS6 family transposase IS26 (FICPFDEA_00055)
Tn3 family transposase Tn2 (FICPFDEA_00045)
Tn3 family transposase ISPa38 (FICPFDEA_00053)
42
43
Transposon Tn3 resolvase (FICPFDEA_00046)
50
DNA-invertase hin (FICPFDEA_00054)
IMGPR_plasmid_2711768041_000002 28810:52646(+)
Mok_Hok_Sok__Hok (LMDPPBDM_00007)
LMDPPBDM_00008
LMDPPBDM_00002
LMDPPBDM_00003
LMDPPBDM_00001
IMGPR_plasmid_2563367003_000001 97:6823(-)
3'-5' exonuclease DinG (LMDCOLID_00048)
PfiAT__PfiT (LMDCOLID_00047)
Colicin Ib (VF1184) (LMDCOLID_00049)
IS3 family transposase ISEc17 (LMDCOLID_00063)
46
50
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58
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61
62
IMGPR_plasmid_2617271049_000002 34032:53606(+)
Cyclic di-GMP phosphodiesterase PdeL (OIKFKOHP_00006)
3'-5' exonuclease DinG (OIKFKOHP_00008)
PfiAT__PfiT (OIKFKOHP_00009)
10
7
5
4
3
2
1
IMGPR_plasmid_2703718851_000002 1057:12931(-)
Cyclic di-GMP phosphodiesterase PdeL (KPDNEOBE_00065)
3'-5' exonuclease DinG (KPDNEOBE_00063)
PfiAT__PfiT (KPDNEOBE_00062)
60
63
66
65
67
68
69
IS3 family transposase ISEc17 (KPDNEOBE_00071)
IMGPR_plasmid_2534682162_000001 45702:59006(+)
Cyclic di-GMP phosphodiesterase PdeL (KJJDLMNG_00013)
IS66 family transposase ISCro1 (KJJDLMNG_00005)
IS66 family transposase IS679 (KJJDLMNG_00004)
3'-5' exonuclease DinG (KJJDLMNG_00015)
IS3 family transposase ISEc17 (KJJDLMNG_00007)
PfiAT__PfiT (KJJDLMNG_00016)
IS3 family transposase IS3 (KJJDLMNG_00006)
17
14
11
12
10
9
8
3
2
1
IMGPR_plasmid_2558860288_000001 119:20603(-)
Cyclic di-GMP phosphodiesterase PdeL (OFILNBGI_00081)
IS91 family transposase ISEc37 (OFILNBGI_00078)
IS91 family transposase IS91 (OFILNBGI_00079)
76
83
IS66 family transposase ISCro1 (OFILNBGI_00087)
75
77
80
82
84
85
86
IS66 family transposase IS679 (OFILNBGI_00088)
IMGPR_plasmid_2698536651_000001 60508:74759(+)
Cyclic di-GMP phosphodiesterase PdeL (GGPLEFHF_00007)
IS91 family transposase ISEc37 (GGPLEFHF_00010)
IS91 family transposase IS91 (GGPLEFHF_00009)
12
IS66 family transposase ISCro1 (GGPLEFHF_00002)
13
11
8
6
5
4
3
IS66 family transposase IS679 (GGPLEFHF_00001)
IMGPR_plasmid_2675903468_000002 672:14920(-)
IS630 family transposase IS630 (KEAIAJKF_00007)
IS4 family transposase ISSfl1 (KEAIAJKF_00002)
L-tartrate/succinate antiporter (KEAIAJKF_00004)
NAD-dependent malic enzyme (KEAIAJKF_00005)
9
8
6
3
1
IMGPR_plasmid_2778261657_000001 31:14439(-)
Macrolide export ATP-binding/permease protein MacB (AFONLOPA_00060)
ISNCY family transposase ISBcen27 (AFONLOPA_00056)
AdeFGH efflux pump (VF0504) (AFONLOPA_00059)
IS66 family transposase ISCro1 (AFONLOPA_00054)
IS3 family transposase IS629 (AFONLOPA_00062)
51
52
54
56
57
Macrolide export protein MacA (AFONLOPA_00061)
IMGPR_plasmid_2565956720_000001 40312:57544(+)
9000 nt
Defence
Virulence
AMR