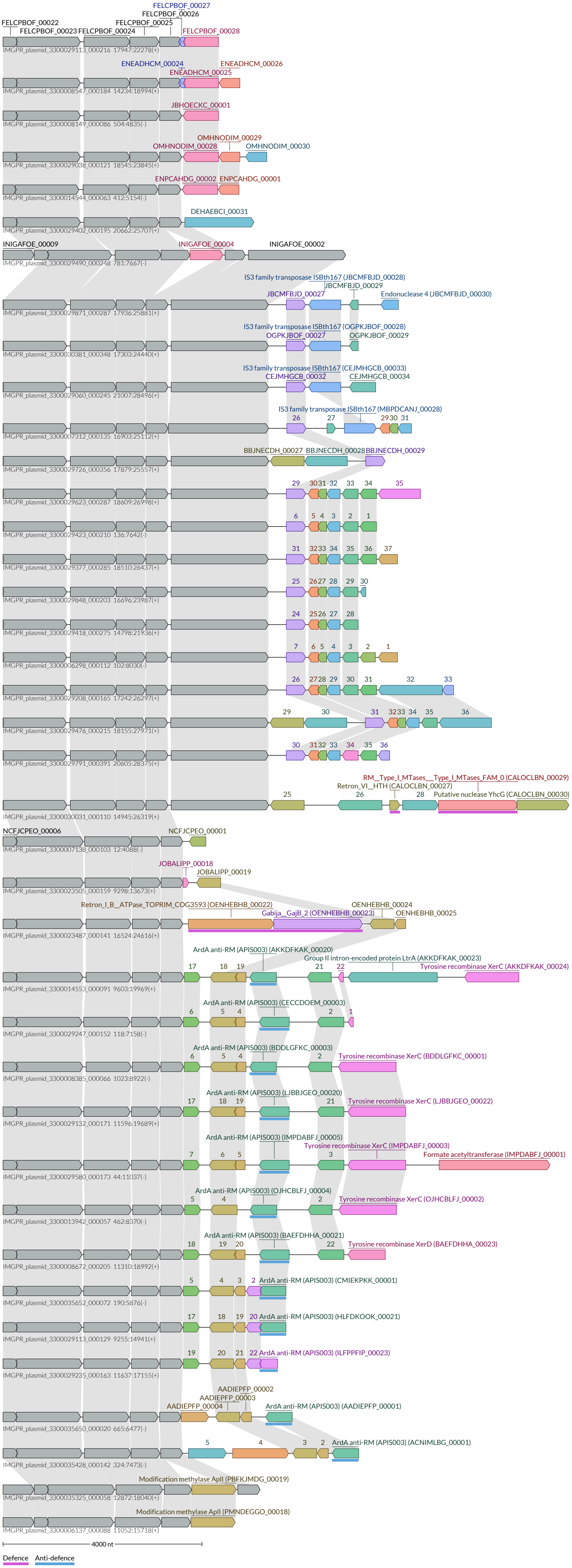
FELCPBOF_00027
FELCPBOF_00026
FELCPBOF_00022
FELCPBOF_00025
FELCPBOF_00023
FELCPBOF_00024
FELCPBOF_00028
IMGPR_plasmid_3300029113_000216 17947:22278(+)
ENEADHCM_00024
ENEADHCM_00026
ENEADHCM_00025
IMGPR_plasmid_3300008547_000184 14234:18994(+)
JBHOECKC_00001
IMGPR_plasmid_3300008149_000086 504:4835(-)
OMHNODIM_00029
OMHNODIM_00028
OMHNODIM_00030
IMGPR_plasmid_3300029038_000121 18545:23845(+)
ENPCAHDG_00002
ENPCAHDG_00001
IMGPR_plasmid_3300014544_000063 412:5154(-)
DEHAEBCI_00031
IMGPR_plasmid_3300029402_000195 20662:25707(+)
INIGAFOE_00009
INIGAFOE_00004
INIGAFOE_00002
IMGPR_plasmid_3300029490_000248 781:7667(-)
IS3 family transposase ISBth167 (JBCMFBJD_00028)
JBCMFBJD_00029
JBCMFBJD_00027
Endonuclease 4 (JBCMFBJD_00030)
IMGPR_plasmid_3300029871_000287 17936:25881(+)
IS3 family transposase ISBth167 (OGPKJBOF_00028)
OGPKJBOF_00027
OGPKJBOF_00029
IMGPR_plasmid_3300030381_000348 17303:24440(+)
IS3 family transposase ISBth167 (CEJMHGCB_00033)
CEJMHGCB_00032
CEJMHGCB_00034
IMGPR_plasmid_3300029060_000245 21007:28496(+)
IS3 family transposase ISBth167 (MBPDCANJ_00028)
26 27 29 30 31
IMGPR_plasmid_3300007312_000135 16903:25112(+)
BBJNECDH_00027
BBJNECDH_00028
BBJNECDH_00029
IMGPR_plasmid_3300029726_000356 17879:25557(+)
29 30 31 32 33 34 35
IMGPR_plasmid_3300029623_000287 18609:26998(+)
6 5 4 3 2 1
IMGPR_plasmid_3300029423_000210 136:7642(-)
31 32 33 34 35 36 37
IMGPR_plasmid_3300029377_000285 18510:26437(+)
25 26 27 28 29 30
IMGPR_plasmid_3300029848_000203 16696:23987(+)
24 25 26 27 28
IMGPR_plasmid_3300029418_000275 14798:21936(+)
7 6 5 4 3 2 1
IMGPR_plasmid_3300006298_000112 102:8030(-)
26 27 28 29 30 31 32 33
IMGPR_plasmid_3300029208_000165 17242:26297(+)
29 30 31 32 33 34 35 36
IMGPR_plasmid_3300029476_000215 18155:27971(+)
30 31 32 33 34 35 36
IMGPR_plasmid_3300029791_000391 20605:28375(+)
RM__Type_I_MTases__Type_I_MTases_FAM_0 (CALOCLBN_00029)
Retron_VI__HTH (CALOCLBN_00027)
25 26 28
Putative nuclease YhcG (CALOCLBN_00030)
IMGPR_plasmid_3300030031_000110 14945:26319(+)
NCFJCPEO_00006
NCFJCPEO_00001
IMGPR_plasmid_3300007138_000103 12:4088(-)
JOBALIPP_00018
JOBALIPP_00019
IMGPR_plasmid_3300023505_000159 9298:13673(+)
Retron_I_B__ATPase_TOPRIM_COG3593 (OENHEBHB_00022)
OENHEBHB_00024
Gabija__GajB_2 (OENHEBHB_00023)
OENHEBHB_00025
IMGPR_plasmid_3300023487_000141 16524:24616(+)
ArdA anti-RM (APIS003) (AKKDFKAK_00020)
Group II intron-encoded protein LtrA (AKKDFKAK_00023)
17 18 19 21 22
Tyrosine recombinase XerC (AKKDFKAK_00024)
IMGPR_plasmid_3300014553_000091 9603:19969(+)
ArdA anti-RM (APIS003) (CECCDOEM_00003)
6 5 4 2 1
IMGPR_plasmid_3300029247_000152 118:7158(-)
ArdA anti-RM (APIS003) (BDDLGFKC_00003)
6 5 4 2
Tyrosine recombinase XerC (BDDLGFKC_00001)
IMGPR_plasmid_3300008385_000066 1023:8922(-)
ArdA anti-RM (APIS003) (LJBBJGEO_00020)
17 18 19 21
Tyrosine recombinase XerC (LJBBJGEO_00022)
IMGPR_plasmid_3300029132_000171 11596:19689(+)
ArdA anti-RM (APIS003) (IMPDABFJ_00005)
Tyrosine recombinase XerC (IMPDABFJ_00003)
7 6 5 3
Formate acetyltransferase (IMPDABFJ_00001)
IMGPR_plasmid_3300029580_000173 44:11037(-)
ArdA anti-RM (APIS003) (OJHCBLFJ_00004)
5 4 2
Tyrosine recombinase XerC (OJHCBLFJ_00002)
IMGPR_plasmid_3300013942_000057 462:8370(-)
ArdA anti-RM (APIS003) (BAEFDHHA_00021)
18 19 20 22
Tyrosine recombinase XerD (BAEFDHHA_00023)
IMGPR_plasmid_3300008672_000205 11310:18992(+)
5 4 3 2 ArdA anti-RM (APIS003) (CMIEKPKK_00001)
IMGPR_plasmid_3300035652_000072 190:5876(-)
17 18 19 20 ArdA anti-RM (APIS003) (HLFDKOOK_00021)
IMGPR_plasmid_3300029113_000129 9255:14941(+)
19 20 21 22 ArdA anti-RM (APIS003) (ILFPPFIP_00023)
IMGPR_plasmid_3300029235_000163 11637:17155(+)
AADIEPFP_00002
AADIEPFP_00003
AADIEPFP_00004
ArdA anti-RM (APIS003) (AADIEPFP_00001)
IMGPR_plasmid_3300035650_000020 665:6477(-)
5 4 3 2 ArdA anti-RM (APIS003) (ACNIMLBG_00001)
IMGPR_plasmid_3300035428_000142 324:7473(-)
Modification methylase ApaII (PBFKJMDG_00019)
IMGPR_plasmid_3300035325_000058 12872:18040(+)
Modification methylase ApaII (PMNDEGGO_00018)
IMGPR_plasmid_3300006137_000088 11052:15718(+)
4000 nt
Defence
Anti-defence