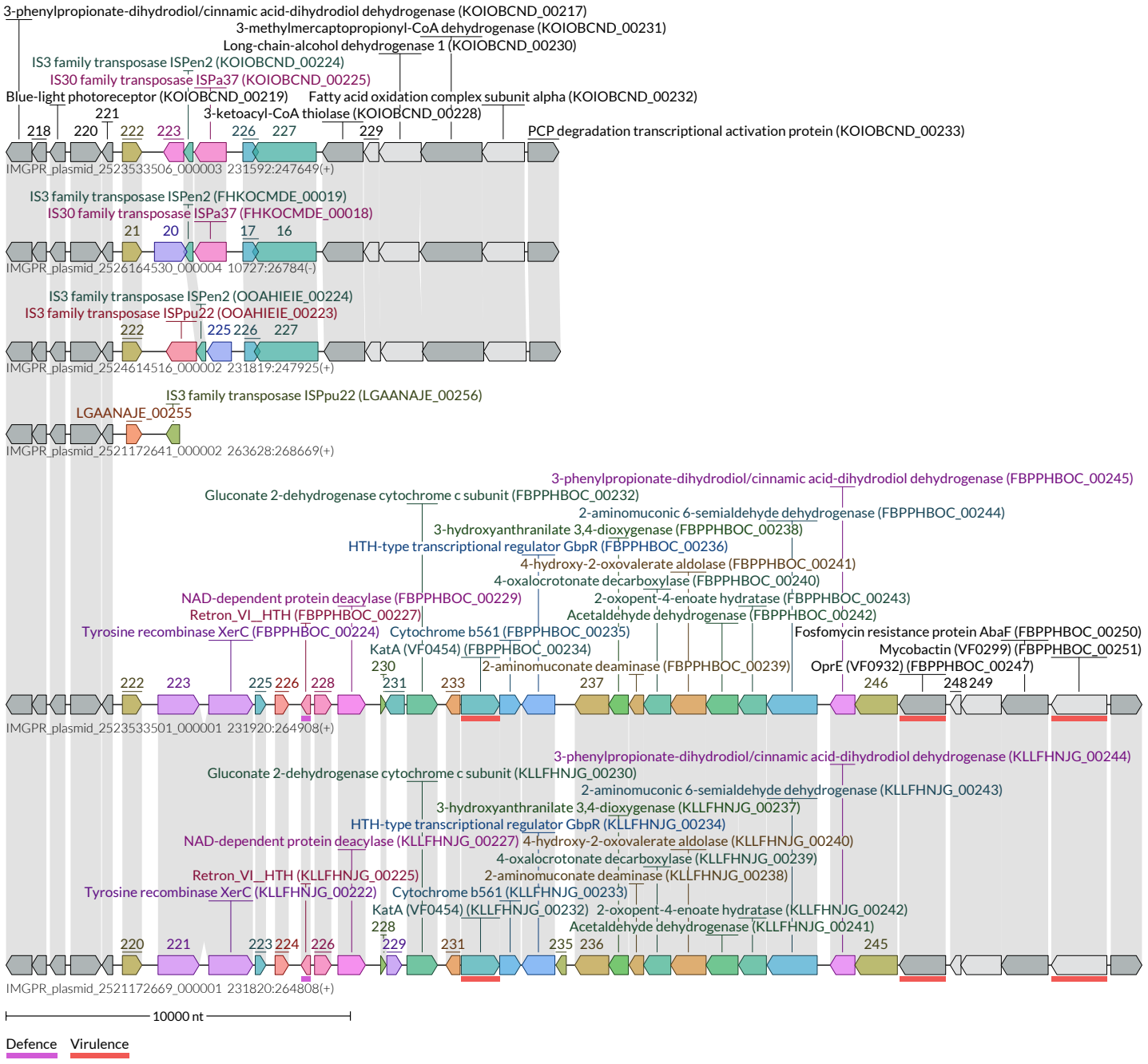
3-phenylpropionate-dihydrodiol/cinnamic acid-dihydrodiol dehydrogenase (KOIOBCND_00217)
3-methylmercaptopropionyl-CoA dehydrogenase (KOIOBCND_00231)
Long-chain-alcohol dehydrogenase 1 (KOIOBCND_00230)
IS3 family transposase ISPen2 (KOIOBCND_00224)
IS30 family transposase ISPa37 (KOIOBCND_00225)
Blue-light photoreceptor (KOIOBCND_00219)
Fatty acid oxidation complex subunit alpha (KOIOBCND_00232)
3-ketoacyl-CoA thiolase (KOIOBCND_00228)
PCP degradation transcriptional activation protein (KOIOBCND_00233)
218 220 221 222 223 226 227 229
IMGPR_plasmid_2523533506_000003 231592:247649(+)
IS3 family transposase ISPen2 (FHKOCMDE_00019)
IS30 family transposase ISPa37 (FHKOCMDE_00018)
21 20 17 16
IMGPR_plasmid_2526164530_000004 10727:26784(-)
IS3 family transposase ISPen2 (OOAHIEIE_00224)
IS3 family transposase ISPpu22 (OOAHIEIE_00223)
222 225 226 227
IMGPR_plasmid_2524614516_000002 231819:247925(+)
IS3 family transposase ISPpu22 (LGAANAJE_00256)
LGAANAJE_00255
IMGPR_plasmid_2521172641_000002 263628:268669(+)
3-phenylpropionate-dihydrodiol/cinnamic acid-dihydrodiol dehydrogenase (FBPPHBOC_00245)
Gluconate 2-dehydrogenase cytochrome c subunit (FBPPHBOC_00232)
2-aminomuconic 6-semialdehyde dehydrogenase (FBPPHBOC_00244)
3-hydroxyanthranilate 3,4-dioxygenase (FBPPHBOC_00238)
HTH-type transcriptional regulator GbpR (FBPPHBOC_00236)
4-hydroxy-2-oxovalerate aldolase (FBPPHBOC_00241)
4-oxalocrotonate decarboxylase (FBPPHBOC_00240)
NAD-dependent protein deacylase (FBPPHBOC_00229)
2-oxopent-4-enoate hydratase (FBPPHBOC_00243)
Retron_VI__HTH (FBPPHBOC_00227)
Acetaldehyde dehydrogenase (FBPPHBOC_00242)
Tyrosine recombinase XerC (FBPPHBOC_00224)
Cytochrome b561 (FBPPHBOC_00235)
Fosfomycin resistance protein AbaF (FBPPHBOC_00250)
KatA (VF0454) (FBPPHBOC_00234)
Mycobactin (VF0299) (FBPPHBOC_00251)
2-aminomuconate deaminase (FBPPHBOC_00239)
OprE (VF0932) (FBPPHBOC_00247)
222 223 225 226 228 230 231 233 237 246 248 249
IMGPR_plasmid_2523533501_000001 231920:264908(+)
3-phenylpropionate-dihydrodiol/cinnamic acid-dihydrodiol dehydrogenase (KLLFHNJG_00244)
Gluconate 2-dehydrogenase cytochrome c subunit (KLLFHNJG_00230)
2-aminomuconic 6-semialdehyde dehydrogenase (KLLFHNJG_00243)
3-hydroxyanthranilate 3,4-dioxygenase (KLLFHNJG_00237)
HTH-type transcriptional regulator GbpR (KLLFHNJG_00234)
NAD-dependent protein deacylase (KLLFHNJG_00227)
4-hydroxy-2-oxovalerate aldolase (KLLFHNJG_00240)
4-oxalocrotonate decarboxylase (KLLFHNJG_00239)
Retron_VI__HTH (KLLFHNJG_00225)
2-aminomuconate deaminase (KLLFHNJG_00238)
Tyrosine recombinase XerC (KLLFHNJG_00222)
Cytochrome b561 (KLLFHNJG_00233)
KatA (VF0454) (KLLFHNJG_00232)
2-oxopent-4-enoate hydratase (KLLFHNJG_00242)
Acetaldehyde dehydrogenase (KLLFHNJG_00241)
220 221 223 224 226 228 229 231 235 236 245
IMGPR_plasmid_2521172669_000001 231820:264808(+)
10000 nt
Defence
Virulence