

Protocatechuate 3,4-dioxygenase beta chain (BGPIEFJA_00040)

HTH-type transcriptional regulator GbpR (BGPIEFJA_00037)

3-oxoadipate enol-lactonase 2 (BGPIEFJA_00038)

BGPIEFJA_00036

BGPIEFJA_00032

BGPIEFJA_00030

BGPIEFJA_00039

BGPIEFJA_00035

BGPIEFJA_00034

BGPIEFJA_00031

BGPIEFJA_00033

BGPIEFJA_00029

Protocatechuate 3,4-dioxygenase alpha chain (BGPIEFJA_00041)



IMGPR_plasmid_2919283621_000001 30111:38950(+)

Disulfide-bond oxidoreductase YfcG (LDKMAPHI_00071)

HTH-type transcriptional regulator (LDKMAPHI_00072)

LDKMAPHI_00066



IMGPR_plasmid_2517287029_000004 70176:80270(-)

485 486 488 487 489



IMGPR_plasmid_2844454524_000004 529241:540649(+)

232 231 229 230 228



IMGPR_plasmid_2516653085_000003 249009:260417(-)

IS66 family transposase ISUnCu14 (ILJHHOOK_00033)

Acetyltransferase (ILJHHOOK_00031)

35 34 32 36



IMGPR_plasmid_2791355258_000007 29418:36615(+)

Multifunctional non-homologous end joining DNA repair protein LigD (FHAOPJFM_00183)

putative membrane transporter protein YfcA (FHAOPJFM_00188)

Chaperone protein DnaJ (FHAOPJFM_00178)

Protein Ves (FHAOPJFM_00177)

180 181 186 182 185 187 189



IMGPR_plasmid_2844462476_000003 194675:208651(+)

putative membrane transporter protein YfcA (JHKEMNO_00210)

212 213 211 209



IMGPR_plasmid_2516653047_000004 223625:237717(-)

4-hydroxy-3-prenylphenylpyruvate oxygenase/4-hydroxy-3-prenylbenzoate synthase (IOKDHFDC_00435)

Inositol 2-dehydrogenase/D-chiro-inositol 3-dehydrogenase (IOKDHFDC_00428)

Zinc-type alcohol dehydrogenase-like protein (IOKDHFDC_00421)

HTH-type transcriptional regulator YofA (IOKDHFDC_00433)

HTH-type transcriptional regulator PgrR (IOKDHFDC_00432)

Non-homologous end joining protein Ku (IOKDHFDC_00415)

Non-homologous end joining protein Ku (IOKDHFDC_00416)

Haloacetate dehalogenase H-2 (IOKDHFDC_00434) HTH-type transcriptional regulator BenM (IOKDHFDC_00413)

440 442 441 439 437 438 436 430 425 424 422 420 419 417 414 412 411 410 409 408 407 404 403 402 401 400 399 398 397 396 394

IS5 family transposase IS4811 (IOKDHFDC_00426)

L-threonine 3-dehydrogenase (IOKDHFDC_00429)

Non-heme chloroperoxidase (IOKDHFDC_00423)

RM_Type_I_MTases_Type_I_MTases_FAM_0 (IOKDHFDC_00406)

RM_Type_I_S_Type_I_S_01 (IOKDHFDC_00405)



IMGPR_plasmid_2765235942_000014 416457:474413(-)

20000 nt

Defence