Type-4 uracil-DNA glycosylase (GEPBOFHE_00538)
Major cardiolipin synthase ClsA (GEPBOFHE_00539)
Sensor histidine kinase RcsC (GEPBOFHE_00535)
536 537 540 541 542 543 544 545 546
IMGPR_plasmid_2507525018_000005 580240:592336(+)
ATP-dependent RecD-like DNA helicase (HNDKMFCJ_00219)
215 216 217 218
Glycine cleavage system transcriptional activator (HNDKMFCJ_00220)
IMGPR_plasmid_2850814604_000003 229400:246233(+)
Thioredoxin reductase (DIJELBHA_00476)
DIJELBHA_00477
DIJELBHA_00478
IMGPR_plasmid_2510065019_000004 508479:518042(+)
3-phenylpropionate-dihydrodiol/cinnamic acid-dihydrodiol dehydrogenase (FHAOPJFM_00025)
Decaprenylphosphoryl-2-keto-beta-D-erythro-pentose reductase (FHAOPJFM_00033)
HTH-type transcriptional regulator PgrR (FHAOPJFM_00026)
Decaprenylphosphoryl-beta-D-ribose oxidase (FHAOPJFM_00034)
Para-nitrobenzyl esterase (FHAOPJFM_00024)
Protoheme IX farnesyltransferase (FHAOPJFM_00036)
ATP-dependent RecD-like DNA helicase (FHAOPJFM_00028)
HitABC (VF0268) (FHAOPJFM_00022)
42 37 35 32 31 30 29 23
IMGPR_plasmid_2844462476_000003 23120:51772(-)
Decaprenylphosphoryl-2-keto-beta-D-erythro-pentose reductase (JHKKEMNO_00315)
Decaprenylphosphoryl-beta-D-ribose oxidase (JHKKEMNO_00314)
IS110 family transposase ISMno29 (JHKKEMNO_00320)
ATP-dependent RecD-like DNA helicase (JHKKEMNO_00321)
Protoheme IX farnesyltransferase (JHKKEMNO_00312)
IS5 family transposase ISPye39 (JHKKEMNO_00327)
311 313 316 317 318 319 326
IMGPR_plasmid_2516653047_000004 320815:351456(+)
Decaprenylphosphoryl-2-keto-beta-D-erythro-pentose reductase (ILJHOOOK_00387)
Decaprenylphosphoryl-beta-D-ribose oxidase (ILJHOOOK_00388)
Protoheme IX farnesyltransferase (ILJHOOOK_00390)
Thioredoxin reductase (ILJHOOOK_00393)
392 391 389 386 385 384 383 382 381
ATP-dependent RecD-like DNA helicase (ILJHOOOK_00380)
IMGPR_plasmid_2791355258_000007 395418:426709(-)
ACJEKNHC_00303
ACJEKNHC_00307
ACJEKNHC_00306
ACJEKNHC_00308
IMGPR_plasmid_2513237084_000007 318607:330161(-)
Multifunctional non-homologous end joining protein LigD (CNAJIOPI_00221)
HTH-type transcriptional regulator LutR (CNAJIOPI_00210)
Type-4 uracil-DNA glycosylase (CNAJIOPI_00216)
CNAJIOPI_00222
CNAJIOPI_00215
L-alanine/L-glutamate racemase (CNAJIOPI_00209)
IMGPR_plasmid_2630968330_000006 222370:236400(-)
Para-nitrobenzyl esterase (JILHJAMH_00421)
JILHJAMH_00416
JILHJAMH_00420
JILHJAMH_00422
IMGPR_plasmid_2896557008_000004 449269:456948(+)
Multifunctional non-homologous end joining protein LigD (CKOFAEAL_00027)
Sensor histidine kinase RcsC (CKOFAEAL_00022)
CKOFAEAL_00023
CKOFAEAL_00019
CKOFAEAL_00021
IMGPR_plasmid_2775507240_000004 10879:21653(-)
Multifunctional non-homologous end joining protein LigD (AFHPPLCG_00076)
Multifunctional non-homologous end joining protein LigD (AFHPPLCG_00077)
Sensor histidine kinase RcsC (AFHPPLCG_00082)
AFHPPLCG_00083
IMGPR_plasmid_2738541344_000019 76559:87333(+)
Sensor histidine kinase RcsC (JILBGOFG_00080)
IMGPR_plasmid_2842317721_000020 76555:87422(+)
BNCMMLDE_00171
IMGPR_plasmid_2872747094_000004 194536:204484(+)
FJFGBAIK_00140
IMGPR_plasmid_2842311132_000020 133387:143335(-)
General stress protein 39 (KFJGOHPA_00148)
Glycogen operon protein GlgX (KFJGOHPA_00149)
KFJGOHPA_00154
IMGPR_plasmid_2718218235_000004 172951:184312(+)
DAEHNDLG_00158
IMGPR_plasmid_2721755684_000004 174870:186230(+)
Inner membrane protein YqaA (JFJDNMHB_00156)
Chromate transport protein (JFJDNMHB_00153)
Protein ChrB (JFJDNMHB_00152)
158 157 155 154 151
Protein ChrB (JFJDNMHB_00150)
IMGPR_plasmid_2928359186_000006 148998:165835(-)
Inner membrane protein YqaA (CNMGEJDB_00188)
Protein ChrB (CNMGEJDB_00192)
184 186 187 189 190 191 193
Protein ChrB (CNMGEJDB_00194)
IMGPR_plasmid_2615840624_000018 199504:217801(+)
L-cystine transport system permease protein TcyL (HCHGGNOK_00232)
DNA-binding transcriptional activator DecR (HCHGGNOK_00225)
putative amino-acid permease protein YxeN (HCHGGNOK_00233)
putative membrane transporter protein (HCHGGNOK_00222)
HTH-type transcriptional regulator ArgP (HCHGGNOK_00228)
Beta-lactamase hydrolase-like protein (HCHGGNOK_00223)
FAD-dependent urate hydroxylase (HCHGGNOK_00229)
L-cystine-binding protein TcyJ (HCHGGNOK_00231)
Pseudomonine (VF0936) (HCHGGNOK_00230)
Cysteine desulfurase (HCHGGNOK_00224)
220 221 226 227 234
IMGPR_plasmid_2721755810_000004 243674:266551(+)
L-cystine transport system permease protein TcyL (PONKLDJO_00275)
DNA-binding transcriptional activator DecR (PONKLDJO_00268)
putative amino-acid permease protein YxeN (PONKLDJO_00276)
putative membrane transporter protein (PONKLDJO_00265)
HTH-type transcriptional regulator ArgP (PONKLDJO_00271)
Beta-lactamase hydrolase-like protein (PONKLDJO_00266)
FAD-dependent urate hydroxylase (PONKLDJO_00272)
L-cystine-binding protein TcyJ (PONKLDJO_00274)
Pseudomonine (VF0936) (PONKLDJO_00273)
Cysteine desulfurase (PONKLDJO_00267)
264 269 270 277
IMGPR_plasmid_2791355264_000014 293369:316326(+)
L-cystine transport system permease protein TcyL (EOHJNKMJ_00231)
DNA-binding transcriptional activator DecR (EOHJNKMJ_00224)
putative amino-acid permease protein YxeN (EOHJNKMJ_00232)
putative membrane transporter protein (EOHJNKMJ_00221)
HTH-type transcriptional regulator ArgP (EOHJNKMJ_00227)
Beta-lactamase hydrolase-like protein (EOHJNKMJ_00222)
FAD-dependent urate hydroxylase (EOHJNKMJ_00228)
Copper-sensing transcriptional repressor CsoR (EOHJNKMJ_00219)
L-cystine-binding protein TcyJ (EOHJNKMJ_00230)
Inner membrane protein YqaA (EOHJNKMJ_00218)
Pseudomonine (VF0936) (EOHJNKMJ_00229)
Cysteine desulfurase (EOHJNKMJ_00223)
Zinc transporter ZitB (EOHJNKMJ_00220)
216 217 225 226 233
IMGPR_plasmid_2728369397_000005 241048:266644(+)
10000 nt
Virulence