

RCS-specific HTH-type transcriptional activator RclR (NAFAGGCI_00011)

3-oxoacyl-[acyl-carrier-protein] reductase FabG (NAFAGGCI_00015)

HTH-type transcriptional regulator DmlR (NAFAGGCI_00014)

HTH-type transcriptional regulator PgrR (NAFAGGCI_00019)

HTH-type transcriptional regulator PgrR (NAFAGGCI_00013)

Type IV secretion system protein VirB11 (NAFAGGCI_00008)

Quinone oxidoreductase 2 (NAFAGGCI_00012)

putative oxidoreductase (NAFAGGCI_00018)

Rvh T4SS (VF0488) (NAFAGGCI_00010) Protein virC1 (NAFAGGCI_00023)

T4SS (VF1282) (NAFAGGCI_00006) Protein VirD4 (NAFAGGCI_00020)

7 9 16 17 21 22 24 25

IMGPR_plasmid_2617270870_000001 3311:22875(+)

DOPFKPMF_00139

DOPFKPMF_00138

DOPFKPMF_00144

IMGPR_plasmid_2806310875_000001 108332:121202(+)

High-affinity branched-chain amino acid transport system permease protein LivH (KFEDCILM_00116)

High-affinity branched-chain amino acid transport system permease protein LivH (KFEDCILM_00127)

putative D-xylose utilization operon transcriptional repressor (KFEDCILM_00135)

Prodigiosin synthesizing transferase PigC (KFEDCILM_00137)

Molybdenum cofactor insertion chaperone PaoD (KFEDCILM_00123)

1-deoxy-D-xylulose-5-phosphate synthase (KFEDCILM_00139)

L-tartrate/galactarate dehydratase (KFEDCILM_00132)

Carbon monoxide dehydrogenase medium chain (KFEDCILM_00125)

IS110 family transposase ISPyE16 (KFEDCILM_00143)

4-hydroxybenzoyl-CoA reductase subunit alpha (KFEDCILM_00126)

IS3 family transposase ISOba1 (KFEDCILM_00142)

ABC-type heme transporter (VF0739) (KFEDCILM_00118)

ABC-type heme transporter (VF0739) (KFEDCILM_00130)

IS3 family transposase ISOba1 (KFEDCILM_00144)

putative GST-like protein YibF (KFEDCILM_00122)

L-carnitine dehydrogenase (KFEDCILM_00133)

FbpABC (VF0272) (KFEDCILM_00119)

Kynurenine formamidase (KFEDCILM_00136)

Chondramide synthase cmdD (KFEDCILM_00134)

IS3 family transposase ISOba1 (KFEDCILM_00145)

114 115

121 120

124

FbpABC (VF0272) (KFEDCILM_00131)

138

117 120

128 129

140

IMGPR_plasmid_3300038607_000001 93779:136764(+)

High-affinity branched-chain amino acid transport system permease protein LivH (HNPAOFOP_00046)

High-affinity branched-chain amino acid transport system permease protein LivH (HNPAOFOP_00035)

putative D-xylose utilization operon transcriptional repressor (HNPAOFOP_00027)

Prodigiosin synthesizing transferase PigC (HNPAOFOP_00025)

Molybdenum cofactor insertion chaperone PaoD (HNPAOFOP_00039)

1-deoxy-D-xylulose-5-phosphate synthase (HNPAOFOP_00023)

L-tartrate/galactarate dehydratase (HNPAOFOP_00030)

Carbon monoxide dehydrogenase medium chain (HNPAOFOP_00037)

IS110 family transposase ISPyE16 (HNPAOFOP_00019)

4-hydroxybenzoyl-CoA reductase subunit alpha (HNPAOFOP_00036)

IS3 family transposase ISOba1 (HNPAOFOP_00020)

ABC-type heme transporter (VF0739) (HNPAOFOP_00044)

L-carnitine dehydrogenase (HNPAOFOP_00029)

IS3 family transposase ISPyE34 (HNPAOFOP_00017)

putative GST-like protein YibF (HNPAOFOP_00040)

Kynurenine formamidase (HNPAOFOP_00026)

FbpABC (VF0272) (HNPAOFOP_00043)

Chondramide synthase cmdD (HNPAOFOP_00028)

IS3 family transposase ISPyE57 (HNPAOFOP_00018)

47 45

42 41

38

FbpABC (VF0272) (HNPAOFOP_00031)

24

47 45

42 41

34 33

22 21

IMGPR_plasmid_3300038606_000001 7626:50611(-)

High-affinity branched-chain amino acid transport system permease protein LivH (GBOPGGDC_00135)

High-affinity branched-chain amino acid transport system permease protein LivH (GBOPGGDC_00146)

putative D-xylose utilization operon transcriptional repressor (GBOPGGDC_00154)

Prodigiosin synthesizing transferase PigC (GBOPGGDC_00156)

Molybdenum cofactor insertion chaperone PaoD (GBOPGGDC_00142)

1-deoxy-D-xylulose-5-phosphate synthase (GBOPGGDC_00158)

L-tartrate/galactarate dehydratase (GBOPGGDC_00151)

Carbon monoxide dehydrogenase medium chain (GBOPGGDC_00144)

IS110 family transposase ISPyE16 (GBOPGGDC_00162)

4-hydroxybenzoyl-CoA reductase subunit alpha (GBOPGGDC_00145)

IS3 family transposase ISOba1 (GBOPGGDC_00161)

ABC-type heme transporter (VF0739) (GBOPGGDC_00137)

ABC-type heme transporter (VF0739) (GBOPGGDC_00149)

IS3 family transposase ISOba1 (GBOPGGDC_00163)

putative GST-like protein YibF (GBOPGGDC_00141)

L-carnitine dehydrogenase (GBOPGGDC_00152)

IS3 family transposase ISOba1 (GBOPGGDC_00164)

FbpABC (VF0272) (GBOPGGDC_00138)

Kynurenine formamidase (GBOPGGDC_00155)

Chondramide synthase cmdD (GBOPGGDC_00153)

134 136

139 140

143

FbpABC (VF0272) (GBOPGGDC_00150)

157

134 136

139 140

147 148

159 160

IMGPR_plasmid_3300030361_000004 110735:148480(+)

10000 nt

Virulence