Tyrosine recombinase XerC (HFOJNAJE_00136)
HFOJNAJE_00137
HFOJNAJE_00135
HFOJNAJE_00140
HFOJNAJE_00138
HFOJNAJE_00141
HFOJNAJE_00134
HFOJNAJE_00139
IMGPR_plasmid_3300044504_000004 113131:124820(+)
Tn3 family transposase TnAs1 (MELIPMMC_00144)
MELIPMMC_00146
MELIPMMC_00143
MELIPMMC_00145
Tyrosine recombinase XerC (MELIPMMC_00140)
IMGPR_plasmid_3300042536_000001 115136:127726(-)
Tyrosine recombinase XerC (OOCJIBJB_00003)
OOCJIBJB_00001
IMGPR_plasmid_2690316332_000004 10:6052(+)
IS200/IS605 family transposase ISPlu2 (FLPEBHGP_00001)
FLPEBHGP_00152
FLPEBHGP_00154
FLPEBHGP_00151
FLPEBHGP_00150
FLPEBHGP_00153
Tyrosine recombinase XerC (FLPEBHGP_00004)
IMGPR_plasmid_2571042540_000005 124921:12253(+)
DNA-binding protein HRL53 (CKJBGHPH_00092)
CKJBGHPH_00090
CKJBGHPH_00096
CKJBGHPH_00091
CKJBGHPH_00097
IMGPR_plasmid_3300002468_000118 72410:86727(+)
Delta(1)-pyrroline-2-carboxylate/Delta(1)-piperideine-2-carboxylate reductase (BGDIEEII_00116)
NADP/NAD-dependent aldehyde dehydrogenase PuuC (BGDIEEII_00114)
Aminodeoxychorismate synthase component 1 (BGDIEEII_00104)
HTH-type transcriptional regulator GltC (BGDIEEII_00112)
Oxygen-dependent choline dehydrogenase (BGDIEEII_00115)
Formyltetrahydrofolate deformylase (BGDIEEII_00108)
Serine hydroxymethyltransferase 2 (BGDIEEII_00111)
Bifunctional protein FolD protein (BGDIEEII_00109)
3-alpha-hydroxycholanate dehydrogenase (NADP(+)) (BGDIEEII_00119)
D-serine transporter DsdX (BGDIEEII_00106)
Tn3 family transposase TnAs1 (BGDIEEII_00123)
Serine acetyltransferase (BGDIEEII_00103)
DNA-invertase hin (BGDIEEII_00121)
D-serine dehydratase (BGDIEEII_00110)
118
102
105
107
Putrescine importer PuuP (BGDIEEII_00113)
117
120
122
124
IMGPR_plasmid_3300053491_064630 84955:117949(+)
Delta(1)-pyrroline-2-carboxylate/Delta(1)-piperideine-2-carboxylate reductase (OIIONNMG_00048)
NADP/NAD-dependent aldehyde dehydrogenase PuuC (OIIONNMG_00050)
Aminodeoxychorismate synthase component 1 (OIIONNMG_00060)
HTH-type transcriptional regulator GltC (OIIONNMG_00052)
Oxygen-dependent choline dehydrogenase (OIIONNMG_00049)
Formyltetrahydrofolate deformylase (OIIONNMG_00056)
Serine hydroxymethyltransferase 2 (OIIONNMG_00053)
Bifunctional protein FolD protein (OIIONNMG_00055)
D-serine transporter DsdX (OIIONNMG_00058)
3-alpha-hydroxycholanate dehydrogenase (NADP(+)) (OIIONNMG_00045)
Serine acetyltransferase (OIIONNMG_00061)
Tn3 family transposase TnAs1 (OIIONNMG_00041)
D-serine dehydratase (OIIONNMG_00054)
DNA-invertase hin (OIIONNMG_00043)
59
57
Putrescine importer PuuP (OIIONNMG_00051)
47 46
44
42
40
IMGPR_plasmid_3300053491_061220 28218:61212(-)
Delta(1)-pyrroline-2-carboxylate/Delta(1)-piperideine-2-carboxylate reductase (IELGJMCF_00078)
NADP/NAD-dependent aldehyde dehydrogenase PuuC (IELGJMCF_00080)
Aminodeoxychorismate synthase component 1 (IELGJMCF_00089)
HTH-type transcriptional regulator GltC (IELGJMCF_00082)
Formyltetrahydrofolate deformylase (IELGJMCF_00086)
Serine hydroxymethyltransferase 2 (IELGJMCF_00083)
Bifunctional protein FolD protein (IELGJMCF_00085)
3-alpha-hydroxycholanate dehydrogenase (NADP(+)) (IELGJMCF_00075)
Serine acetyltransferase (IELGJMCF_00090)
Oxygen-dependent choline dehydrogenase (IELGJMCF_00079)
D-serine transporter DsdX (IELGJMCF_00087)
Tn3 family transposase TnAs1 (IELGJMCF_00071)
Putrescine importer PuuP (IELGJMCF_00081)
DNA-invertase hin (IELGJMCF_00073)
88
D-serine dehydratase (IELGJMCF_00084)
77 76
74
72
70
IMGPR_plasmid_3300053491_061602 52977:85970(-)
Delta(1)-pyrroline-2-carboxylate/Delta(1)-piperideine-2-carboxylate reductase (PBOEGJLK_00143)
NADP/NAD-dependent aldehyde dehydrogenase PuuC (PBOEGJLK_00145)
Alpha-ketoglutaric semialdehyde dehydrogenase (PBOEGJLK_00142)
Aminodeoxychorismate synthase component 1 (PBOEGJLK_00154)
HTH-type transcriptional regulator GltC (PBOEGJLK_00147)
Oxygen-dependent choline dehydrogenase (PBOEGJLK_00144)
Formyltetrahydrofolate deformylase (PBOEGJLK_00151)
3-alpha-hydroxycholanate dehydrogenase (NADP(+)) (PBOEGJLK_00137)
Serine hydroxymethyltransferase 2 (PBOEGJLK_00148)
Bifunctional protein FolD protein (PBOEGJLK_00150)
Cis-3-hydroxy-L-proline dehydratase (PBOEGJLK_00140)
Serine acetyltransferase (PBOEGJLK_00155)
Tn3 family transposase TnAs1 (PBOEGJLK_00133)
D-serine transporter DsdX (PBOEGJLK_00152)
DNA-invertase hin (PBOEGJLK_00135)
D-serine dehydratase (PBOEGJLK_00149)
138
153
Putrescine importer PuuP (PBOEGJLK_00146)
141
139
136
134
132
IMGPR_plasmid_3300021246_000004 106936:142384(-)
Delta(1)-pyrroline-2-carboxylate/Delta(1)-piperideine-2-carboxylate reductase (AMIKFILP_00110)
NADP/NAD-dependent aldehyde dehydrogenase PuuC (AMIKFILP_00108)
Aminodeoxychorismate synthase component 1 (AMIKFILP_00098)
HTH-type transcriptional regulator GltC (AMIKFILP_00105)
Formyltetrahydrofolate deformylase (AMIKFILP_00101)
Alpha-ketoglutaric semialdehyde dehydrogenase (AMIKFILP_00111)
Serine hydroxymethyltransferase 2 (AMIKFILP_00104)
3-alpha-hydroxycholanate dehydrogenase (NADP(+)) (AMIKFILP_00116)
Bifunctional protein FolD protein (AMIKFILP_00102)
Cis-3-hydroxy-L-proline dehydratase (AMIKFILP_00113)
Serine acetyltransferase (AMIKFILP_00097)
Oxygen-dependent choline dehydrogenase (AMIKFILP_00109)
D-serine transporter DsdX (AMIKFILP_00100)
Tn3 family transposase TnAs1 (AMIKFILP_00120)
Putrescine importer PuuP (AMIKFILP_00107)
DNA-invertase hin (AMIKFILP_00118)
D-serine dehydratase (AMIKFILP_00103)
115
99
106
112
114
117
119
121
IMGPR_plasmid_2645727712_000001 80858:116720(+)
10000 nt