

-ketosteroid-9-alpha-monooxygenase, ferredoxin reductase component (FBHEHABH_00224)

Carnitine monooxygenase oxygenase subunit (FBHEHABH_00225)

HTH-type transcriptional regulator HdrR (FBHEHABH_00226)

Transcriptional regulatory protein ros (FBHEHABH_00228)

putative flavin reductase (FBHEHABH_00223)

10 kDa chaperonin 1 (FBHEHABH_00231)

Hsp60 (VF0159) (FBHEHABH_00232)

229 227 230 233 234

IMGPR_plasmid_2850646820_000002: 216,971-227,430 (+)

Glycine cleavage system transcriptional activator (NKLKJFIA_00436)

Carnitine monooxygenase oxygenase subunit (NKLKJFIA_00437)

Nodulation protein D 2 (NKLKJFIA_00443)

441 439 440 434

IMGPR_plasmid_2562617130_000001: 398,705-411,344 (-)

1-aminocyclopropane-1-carboxylate deaminase (MNAHDBEH_00165)

Amino-acid carrier protein Alst (MNAHDBEH_00192) Leucine-responsive regulatory protein (MNAHDBEH_00166)

Putative cytochrome P450 143 (MNAHDBEH_00180)

IS110 family transposase ISPy17 (MNAHDBEH_00168)

IS5 family transposase ISRel13 (MNAHDBEH_00196) IS5 family transposase ISRm33 (MNAHDBEH_00163)

shah_acc_0156 oxidoreductase (MNAHDBEH_00178)

IS3 family transposase ISRle5 (MNAHDBEH_00170)

IS21 family transposase ISPPu7 (MNAHDBEH_00176)

IS5 family transposase ISRel13 (MNAHDBEH_00197) putative signaling protein (MNAHDBEH_00160)

DrmD_00013 DrmD (MNAHDBEH_00177)

Thioredoxin C-1 (MNAHDBEH_00181)

Thiazole synthase (MNAHDBEH_00172)

154 153 150 149 147

198 199 197 194 192 190 188 186 183 181 178 174 173 168 166 163 161 160 158 157 156 155 152 151 149 147 143 142 141 139 138 136 134 133 131

1-aminocyclopropane-1-carboxylate deaminase (MNAHDBEH_00147)

IS630 family transposase ISRm10-1 (MNAHDBEH_00130)

IS5 family transposase ISRm15 (MNAHDBEH_00136)

IS6 family transposase ISRle7 (MNAHDBEH_00146)

IS6 family transposase ISRle7 (MNAHDBEH_00145)

HTH-type transcriptional regulator MalT (MNAHDBEH_00149)

Acyl carrier protein AcpP (MNAHDBEH_00132)

Pentalenolactone synthase (MNAHDBEH_00138)

Blue copper oxidase CueO (MNAHDBEH_00141)

tRNA-Cys(aca)

IMGPR_plasmid_651053067_000001: 125,563-179,779 (-)

1-aminocyclopropane-1-carboxylate deaminase (DEOPPHHB_01414)

Leucine-responsive regulatory protein (DEOPPHHB_01415)

Putative cytochrome P450 143 (DEOPPHHB_01427)

Amino-acid carrier protein Alst (DEOPPHHB_01439) IS5 family transposase ISRm33 (DEOPPHHB_01412)

IS110 family transposase ISPy17 (DEOPPHHB_01417)

shah_acc_0156 oxidoreductase (DEOPPHHB_01425)

IS3 family transposase ISRle5 (DEOPPHHB_01419)

IS5 family transposase ISRtr4 (DEOPPHHB_01430)

DrmC_00006 DrmC (DEOPPHHB_01420)

Thioredoxin C-1 (DEOPPHHB_01428)

Thiazole synthase (DEOPPHHB_01421)

1435 1433 1430 1429 1427 1424 1422 1421 1416 1414 1411 1408 1406 1404 1403 1399 1397 1395 1391 1389 1386 1382 1381

1-aminocyclopropane-1-carboxylate deaminase (DEOPPHHB_01398)

HTH-type transcriptional regulator MalT (DEOPPHHB_01396)

Cobalt/magnesium transport protein CorA (DEOPPHHB_01396)

IS6 family transposase ISRle7 (DEOPPHHB_01395)

IS6 family transposase ISRle7 (DEOPPHHB_01394)

IS5 family transposase ISRm15 (DEOPPHHB_01385)

Pentalenolactone synthase (DEOPPHHB_01387)

Blue copper oxidase CueO (DEOPPHHB_01390)

IMGPR_plasmid_2918445941_000002: 1,340,600-1,393,148 (-)

1-aminocyclopropane-1-carboxylate deaminase (IIBJPJLP_01168)

Leucine-responsive regulatory protein (IIBJPJLP_01167)

IS5 family transposase ISRm33 (IIBJPJLP_01170)

IS110 family transposase ISPy17 (IIBJPJLP_01165)

shah_acc_0156 oxidoreductase (IIBJPJLP_01155)

IS3 family transposase ISRle5 (IIBJPJLP_01163)

IS21 family transposase ISPPu7 (IIBJPJLP_01157)

Putative cytochrome P450 143 (IIBJPJLP_01153)

DrmC_00006 DrmC (IIBJPJLP_01162)

DrmD_00013 DrmD (IIBJPJLP_01156)

ISNCY family transposase ISRm17 (IIBJPJLP_01145) Thiazole synthase (IIBJPJLP_01161)

Thioredoxin C-1 (IIBJPJLP_01152)

1142 1148 1147 1150 1154 1158 1159 1164 1166 1169 1172 1174 1176 1177 1181 1185 1179 1182 1183 1190 1192 1196 1200 1194 1195 1198 1201

IMGPR_plasmid_2847395608_000005: 1,101,221-1,158,544 (+)

20000 nt

defence (PADLOC)

virulence (VFDB)

tRNA