

GEM: Firmicutes\_A

Pathway Features

- Transcriptional regulatory protein LevR, contains PRD, AAA+ and EIIA domains
- Valyl-tRNA synthetase
- Signal transduction histidine kinase NarQ, nitrate/nitrite-specific
- Palmitoleoyl-ACP: Kdo2-lipid-IV acyltransferase (lipid A biosynthesis)
- Aconitase A
- Phage P2 baseplate assembly protein gpV
- Phage terminase, small subunit
- Phage anti-repressor protein Ant
- Lactoylglutathione lyase-related enzyme, vicinal oxygen chelate (VOC) family
- Lipoprotein signal peptidase
- ABC-type multidrug transport system, ATPase and permease component
- Predicted ester cyclase
- Peptide methionine sulfoxide reductase MsrB
- Recombinational DNA repair protein RecO (RecF pathway)
- Ferritin-like DNA-binding protein, DPS (DNA Protection under Starvation) family
- Glutamate N-acetyltransferase (ornithine transacetylase)
- Uncharacterized conserved protein YrzB, UPF0473 family
- Uracil phosphoribosyltransferase
- Uncharacterized membrane protein YeaQ/YmgE, transglycosylase-associated protein family
- tRNA U34 5-methylaminomethyl-2-thiouridine-forming methyltransferase MnmC
- Flagellar motor component MotA
- Predicted acyltransferase, DUF1624 domain
- UDP-N-acetylglucosamine transferase subunit ALG13
- Lipoprotein Med, regulator of KinD/Spo0A, PBP1-ABC superfamily, includes NupN
- Holliday junction resolvase RusA (prophage-encoded endonuclease)
- Uncharacterized conserved protein AsmA involved in outer membrane biogenesis
- Ca2+/Na+ antiporter
- Na+/H+ antiporter NhaB
- Capsular polysaccharide biosynthesis protein YveK
- Citrate lyase beta subunit
- Uncharacterized conserved protein, DUF952 family
- 3'-5' exoribonuclease YhaM, can participate in 23S rRNA maturation, HD superfamily
- Uncharacterized conserved protein, DUF1851 domain
- Uncharacterized conserved protein, DUF2321 domain
- ECF-type thiazole transporter, membrane (S) component ThiW
- Stage 0 sporulation-control protein Spo0M
- Cytosine/uracil/thiamine/allantoin permease
- N-acetylglutamate synthase or related acetyltransferase, GNAT family
- Replicative DNA helicase
- Peroxisredoxin family protein
- Cytidine deaminase
- Archaeal adenylate kinase
- Indole-3-glycerol phosphate synthase
- Uncharacterized conserved protein, DUF2063 family
- Uncharacterized membrane protein, YccA/Bax inhibitor family
- Molecular chaperone GrpE (heat shock protein HSP-70)
- Beta-lactamase class D
- Uncharacterized conserved protein, DUF1778 family
- Formylmethanofuran dehydrogenase subunit D
- Formylmethanofuran dehydrogenase subunit B

