

Pathway Features

Uncharacterized protein, contains DUF3084 domain
Multidrug transporter EmrE and related cation transporters
Flp pilus assembly protein TadD, contains TPR repeats
Two-component response regulator, AmiR/NasT family, consists of REC and RNA-binding antiterminator (ANTAR) domains
Transposase (or an inactivated derivative), DDE domain
Signal recognition particle GTPase FtsY
N-acetyl-beta-hexosaminidase
Eukaryotic-type DNA primase, catalytic (small) subunit
UDP-2,3-diacetylglucosamine pyrophosphatase LpxH
HEAT repeat
Uncharacterized conserved protein YggU, UPF0235/DUF167 family
LPS assembly outer membrane protein LptD (organic solvent tolerance protein OstA)
Multidrug resistance efflux pump EmrA
GMP synthase, PP-ATPase domain/subunit
Amino acid racemase YgeA
YggF/RuvX protein, pre-16S rRNA maturation RNase/Holliday junction resolvase/anti-termination factor
Glycerate-2-kinase
Type II secretory pathway, pseudopilin PulG
Protein-L-isoaspartate O-methyltransferase
Tartrate dehydratase alpha subunit/Fumarate hydratase class I, N-terminal domain
Isocitrate/isopropylmalate dehydrogenase
UDP-N-acetylenolpyruvoylglucosamine reductase
Chromate transport protein ChrA
Molybdopterin synthase sulfur carrier subunit MoaD
GTPase involved in cell partitioning and DNA repair
Uncharacterized conserved protein containing a metal-binding domain
Transcriptional regulator NrdR, contains Zn-ribbon and ATP-cone domains
DNA mismatch repair ATPase MutS
Malate/lactate dehydrogenase
Type IV pilus assembly protein PilT, pilus retraction ATPase
Predicted glycosyl hydrolase, GH43/DUF377 family
16S rRNA U1498 N3-methylase RsmE
Propanediol utilization protein
Aspartate oxidase
Alcohol dehydrogenase YqhD, Fe-dependent ADH family
Sulfatase maturation enzyme AslB, radical SAM superfamily
Type II secretory pathway, component PulF
tRNA(Arg) A34 adenosine deaminase TadA
Uncharacterized membrane protein, DUF368 family
Nitroimidazole reductase NimA or a related FMN-containing flavoprotein, pyridoxamine 5'-phosphate oxidase superfamily
4-diphosphocytidyl-2C-methyl-D-erythritol kinase
Acetylornithine/succinyldiaminopimelate/putrescine aminotransferase
O-succinylbenzoic acid-CoA ligase MenE or related acyl-CoA synthetase (AMP-forming)
Broad specificity polyphosphatase and 5'/3'-nucleotidase SurE
Alanyl-tRNA synthetase
UDP-N-acetyl-D-mannosaminuronic acid transferase, WecB/TagA/CpsF family
Pyruvate kinase
Uncharacterized membrane protein YedE/YeeE, contains two sulfur transport domains
Archaeal fructose-1,6-bisphosphatase or related enzyme, inositol monophosphatase family
Excinuclease UvrABC, nuclease subunit
DNA repair protein RadC, contains a helix-hairpin-helix DNA-binding motif
Acetyl-CoA acetyltransferase
Uncharacterized protein with cyclophilin fold, contains DUF369 domain
ATP-dependent protease HslVU (ClpYQ), peptidase subunit
Flagellar motor protein MotB
Proteasome lid subunit RPN8/RPN11, contains Jab1/MPN domain metalloenzyme (JAMM) motif
Preprotein translocase subunit SecF
Protein-S-isoprenylcysteine O-methyltransferase Ste14
ATP-dependent protease HslVU (ClpYQ), ATPase subunit HslU
Arginyl-tRNA synthetase
NAD(P)H-hydrate repair enzyme Nnr, NAD(P)H-hydrate epimerase domain
Penicillin-binding protein 1B/1F, peptidoglycan transglycosylase/transpeptidase
DNA gyrase/topoisomerase IV, subunit B
Ribosomal protein S7
GDP-D-mannose dehydratase
Predicted nuclease of restriction endonuclease-like (RecB) superfamily, DUF1016 family
Endo-beta-N-acetylglucosaminidase D
5-methylcytosine-specific restriction endonuclease McrBC, GTP-binding regulatory subunit McrB
Type II secretory pathway ATPase component GspA/ExeA/MshM
Glycosyltransferase involved in LPS biosynthesis, GR25 family
Flagellar hook-capping protein FlgD
Predicted Zn-dependent peptidase, M16 family
Cytidylate kinase
RecG-like helicase
Tetratricopeptide (TPR) repeat
Sulfur carrier protein ThiS (thiamine biosynthesis)
Ribonuclease HII
ERCC4-related helicase
Urocanate hydratase

Direction ● Positive ● Negative

LASSO Coefficient (Absolute) Value