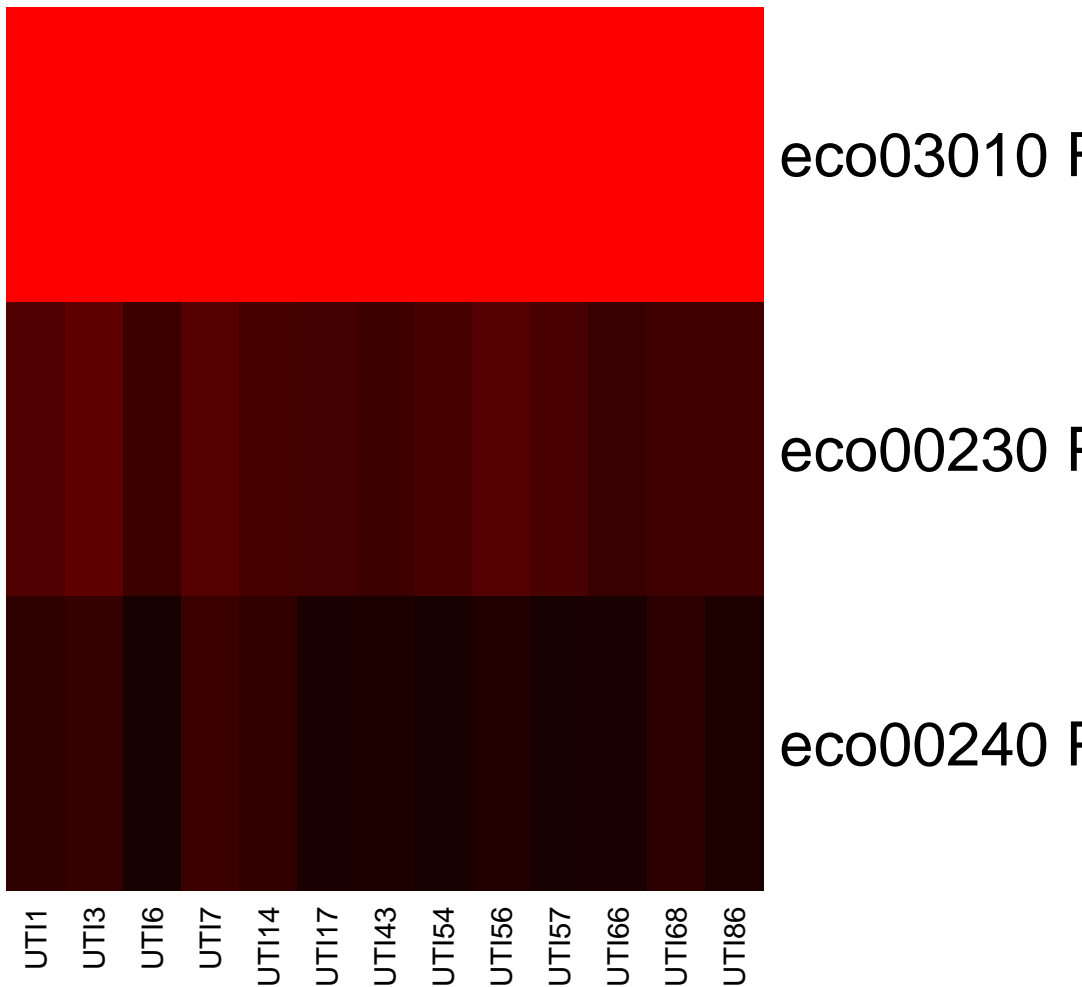
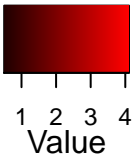


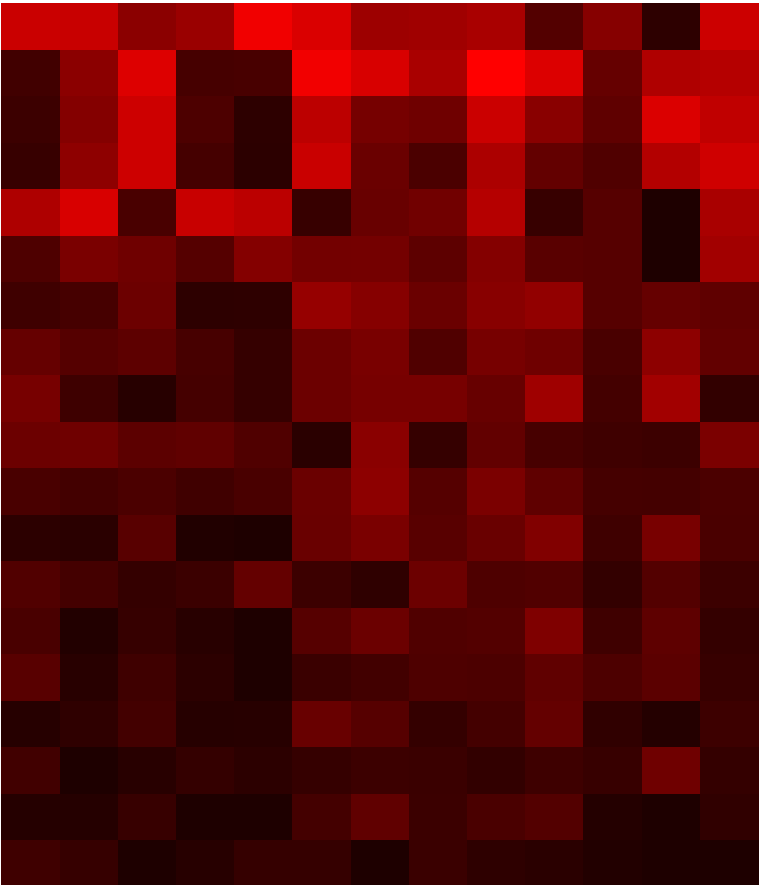
GAGE Up-test: $-\log_{10}(\text{p-value})$



Color Key



GAGE Down-test: $-\log_{10}(\text{p-value})$



UTI1

UTI3

UTI6

UTI7

UTI14

UTI17

UTI43

UTI54

UTI56

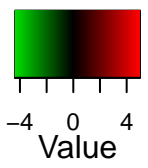
UTI57

UTI66

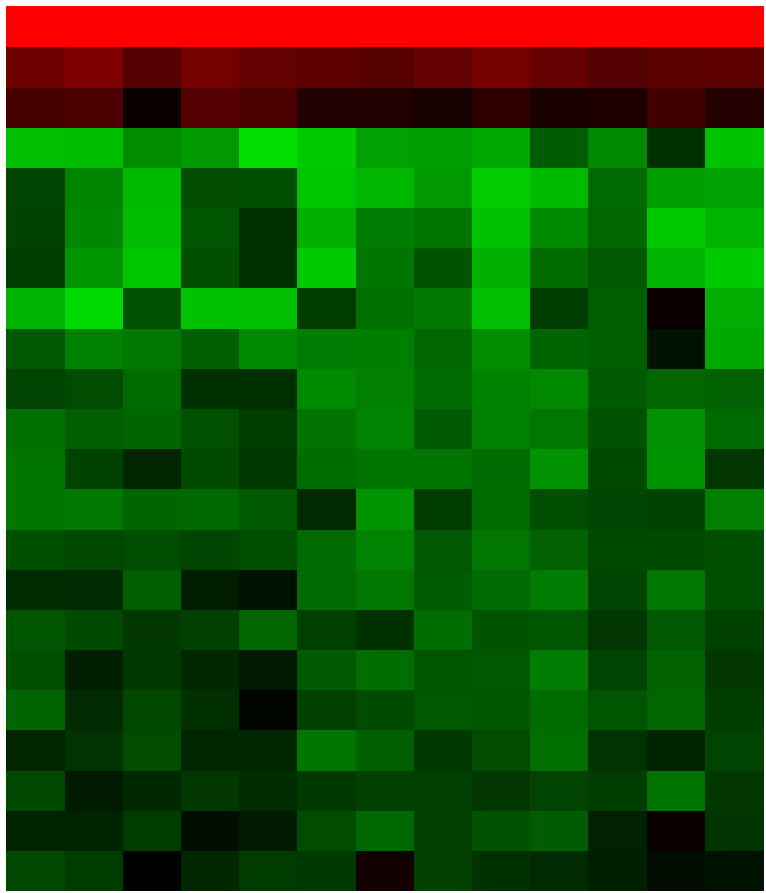
UTI68

UTI86

Color Key



GAGE test statistics



- eco03010 Ribosome
- eco00230 Purine metabolism
- eco00240 Pyrimidine metabolism
- eco00052 Galactose metabolism
- eco01230 Biosynthesis of amino acids
- eco01210 2-Oxocarboxylic acid metabolism
- eco00290 Valine, leucine and isoleucine metabolism
- eco00040 Pentose and glucuronate interconversions
- eco00520 Amino sugar and nucleotide metabolism
- eco01110 Biosynthesis of secondary metabolites
- eco00650 Butanoate metabolism
- eco01120 Microbial metabolism in diverse environments
- eco02020 Two-component system
- eco01100 Metabolic pathways
- eco01130 Biosynthesis of nucleosides and nucleotides
- eco02010 ABC transporters
- eco01200 Carbon metabolism
- eco00020 Citrate cycle (TCA cycle)
- eco00260 Glycine, serine and alanine metabolism
- eco00620 Pyruvate metabolism
- eco00270 Cysteine and methionine metabolism
- eco00051 Fructose and mannose metabolism

- UTI1
- UTI3
- UTI6
- UTI7
- UTI14
- UTI17
- UTI43
- UTI54
- UTI56
- UTI57
- UTI66
- UTI68
- UTI86