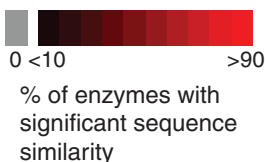


Color Key



Archaea

Bacteria

Eukarya

Protists

Fungi

Metazoa

Average - Eukaryotes

Plants

Average Others

Nematodes

Deuterostomes

Arthropods/Tardigrada

Lophotrochozoa

Average Others

Glo./Zygo.

Basidiomycetes

Ascomycetes

Average Others

Eugl./Hapto./Str.

Alveolates

Average Others

Spirochaetes

Cyanobacteria

Firmicutes

g-proteobacteria

e-proteobacteria

d-proteobacteria

b-proteobacteria

a-proteobacteria

Actinobacteria

Average Others

Euryarchaeota

Crenarchaeota

Average - All

Carbohydrate metabolism

Aminosugars metabolism
Ascorbate and aldarate metabolism
Butanoate metabolism
C5-Branched dibasic acid metabolism
Citrate cycle TCA cycle
Fructose and mannose metabolism
Galactose metabolism
Glycolysis Gluconeogenesis
Glyoxylate and dicarboxylate metabolism
Inositol metabolism
Inositol phosphate metabolism
Nucleotide sugars metabolism
Pentose and glucuronate interconversions
Pentose phosphate pathway
Propanoate metabolism
Pyruvate metabolism
Starch and sucrose metabolism

Energy metabolism

Carbon fixation
Methane metabolism
Nitrogen metabolism
Sulfur metabolism
Reductive carboxylate cycle CO2 fixation

Lipid metabolism

Androgen and estrogen metabolism
Bile acid biosynthesis
C21-Steroid hormone metabolism
Fatty acid biosynthesis path 1
Fatty acid biosynthesis path 2
Fatty acid metabolism
Glycerolipid metabolism
Phospholipid degradation
Prostaglandin and leukotriene metabolism
Sphingophospholipid biosynthesis
Sterols biosynthesis
Synthesis and degradation of ketone bodies

Nucleotide metabolism

Purine metabolism
Pyrimidine metabolism

Amino acid metabolism

Alanine and aspartate metabolism
Arginine and proline metabolism
Cysteine metabolism
Glutamate metabolism
Glycine, serine and threonine metabolism
Histidine metabolism
Lysine biosynthesis
Lysine degradation
Methionine metabolism
Phenylalanine metabolism
Phenylalanine, tyrosine and tryptophan biosynthesis
Tryptophan metabolism
Tyrosine metabolism
Urea cycle and metabolism of amino groups
Valine, leucine and isoleucine biosynthesis
Valine, leucine and isoleucine degradation

Other amino acid metabolism

Aminophosphonate metabolism
beta-Alanine metabolism
Cyanoamino acid metabolism
D-Alanine metabolism
D-Arginine and D-ornithine metabolism
D-Glutamine and D-glutamate metabolism
Glutathione metabolism
Selenoamino acid metabolism
Taurine and hypotaurine metabolism

Glycan metabolism

Blood group glycolipid biosynthesis - lactoseries
Blood group glycolipid biosynthesis - neo-lactoseries
Chondroitin heparan sulfate biosynthesis
Ganglioside biosynthesis
Globoside metabolism
Glycosaminoglycan degradation
Glycosylphosphatidylinositol GPI-anchor biosynthesis
Keratan sulfate biosynthesis
Lipopolysaccharide biosynthesis
N-Glycans biosynthesis
O-Glycans biosynthesis
Peptidoglycan biosynthesis
Sphingoglycolipid metabolism

Co-factors and vitamins

Biotin metabolism
Folate biosynthesis
Nicotinate and nicotinamide metabolism
One carbon pool by folate
Pantothenate and CoA biosynthesis
Porphyrin and chlorophyll metabolism
Retinol metabolism
Riboflavin metabolism
Thiamine metabolism
Ubiquinone biosynthesis
Vitamin B6 metabolism

Secondary metabolites

Alkaloid biosynthesis I
Alkaloid biosynthesis II
Clavulanic acid biosynthesis
Diterpenoid biosynthesis
Flavonoids, stilbene and lignin biosynthesis
Indole and ipecac alkaloid biosynthesis
Limonene and pinene degradation
Monoterpenoid biosynthesis
Penicillins and cephalosporins biosynthesis
Polyketide sugar unit biosynthesis
Purpurosins biosynthesis
Streptomycin biosynthesis
Terpenoid biosynthesis
Tetracycline biosynthesis

Xenobiotics

1,2-Dichloroethane degradation
1,4-Dichlorobenzene degradation
2,4-Dichlorobenzoate degradation
3-Chloroacrylic acid degradation
Atrazine degradation
Benzoate degradation via CoA ligation
Benzoate degradation via hydroxylation
Biphenyl degradation
Caprolactam degradation
Carbazole degradation
Ethylbenzene degradation
Fluorene degradation
gamma-Hexachlorocyclohexane degradation
Nitrobenzene degradation
Styrene degradation
Tetrachloroethene degradation
Toluene and xylene degradation
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane .DDT. degradation