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KEGG assignment

Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Metabolism of cofactors and vitamins_Retinol metabolism [PATH:ko00830]
Metabolism_Xenobiotics biodegradation and metabolism_Chloroalkane and chloroalkene degradatic
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - cytochrome P450 [PAT
Metabolism_Xenobiotics biodegradation and metabolism_Metabolism of xenobiotics by cytochrome
Metabolism_Xenobiotics biodegradation and metabolism_Naphthalene degradation [PATH:ko00626]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Xenobiotics biodegradation and metabolism_Caprolactam degradation [PATH:ko00930]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Biosynthesis of other secondary metabolites_Streptomycin biosynthesis [PATH:ko0052]
Metabolism_Carbohydrate metabolism_Inositol phosphate metabolism [PATH:ko00562]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00:
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Organismal_Endocrine system_Glucagon signaling pathway [PATH:ko04922]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Lipid metabolism_Synthesis and degradation of ketone bodies [PATH:ko00072]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Environmental Information Processing_Signal transduction_AMPK signaling pathway [PATH:ko0415

Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko04976]
Organismal_Digestive system_Bile secretion [PATH:ko04976]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Lipid metabolism_Fatty acid elongation [PATH:ko00062]
Metabolism_Metabolism of terpenoids and polyketides_Geraniol degradation [PATH:ko00281]
Metabolism_Xenobiotics biodegradation and metabolism_Caprolactam degradation [PATH:ko00930]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Organismal_Excretory system_Proximal tubule bicarbonate reclamation [PATH:ko04964]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Human Diseases_Cancers_Central carbon metabolism in cancer [PATH:ko05230]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Metabolism_Lipid metabolism_Steroid hormone biosynthesis [PATH:ko00140]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Lipid metabolism_Steroid hormone biosynthesis [PATH:ko00140]

Organismal_Endocrine system_Ovarian Steroidogenesis [PATH:ko04913]
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Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
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Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine biosynthesis [PATH:ko00290]
Metabolism_Carbohydrate metabolism_C5-Branched dibasic acid metabolism [PATH:ko00660]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine biosynthesis [PATH:ko00290]
Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00051]
Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00052]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Biosynthesis of other secondary metabolites_Prodigiosin biosyntheses [PATH:ko00333]
Metabolism_Lipid metabolism_Biosynthesis of unsaturated fatty acids [PATH:ko01040]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
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Metabolism_Metabolism of cofactors and vitamins_Biotin metabolism [PATH:ko00780]
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Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Biosynthesis of other secondary metabolites_Streptomycin biosynthesis [PATH:ko00052]
Metabolism_Metabolism of terpenoids and polyketides_Polyketide sugar unit biosynthesis [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Human Diseases_Cancers_Transcriptional misregulation in cancers [PATH:ko05202]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
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Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00052]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteins [PATH:ko00550]
Metabolism_Lipid metabolism_Secondary bile acid biosynthesis [PATH:ko00121]
Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
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Metabolism_Biosynthesis of other secondary metabolites_Phenylpropanoid biosynthesis [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]

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Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
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Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - other enzymes [PATH:
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
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Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
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Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
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Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
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Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
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Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
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Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Human Diseases_Cancers_Chemical carcinogenesis [PATH:ko05204]
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Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
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Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Metabolism of cofactors and vitamins_Retinol metabolism [PATH:ko00830]
Metabolism_Xenobiotics biodegradation and metabolism_Chloroalkane and chloroalkene degradati
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - cytochrome P450 [PAT
Metabolism_Xenobiotics biodegradation and metabolism_Metabolism of xenobiotics by cytochrome
Metabolism_Xenobiotics biodegradation and metabolism_Naphthalene degradation [PATH:ko00626]
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Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
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Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Metabolism of terpenoids and polyketides_Insect hormone biosynthesis [PATH:ko0098]
Metabolism_Metabolism of terpenoids and polyketides_Limonene and pinene degradation [PATH:ko00010]
Metabolism_Xenobiotics biodegradation and metabolism_Chloroalkane and chloroalkene degradation [PATH:ko00010]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Metabolism_Biosynthesis of other secondary metabolites_Monobactam biosynthesis [PATH:ko00026]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Signal transduction_HIF-1 signaling pathway [PATH:ko0406]
Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00010]
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Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
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Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Xenobiotics biodegradation and metabolism_Styrene degradation [PATH:ko00643]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Biosynthesis of other secondary metabolites_Carbapenem biosynthesis [PATH:ko00033]

Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
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Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
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Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
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Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Environmental Information Processing_Signal transduction_HIF-1 signaling pathway [PATH:ko0406]
Human Diseases_Cancers_Central carbon metabolism in cancer [PATH:ko05230]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Organismal_Endocrine system_Glucagon signaling pathway [PATH:ko04922]
Environmental Information Processing_Signal transduction_HIF-1 signaling pathway [PATH:ko0406]
Human Diseases_Cancers_Central carbon metabolism in cancer [PATH:ko05230]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
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Organismal_Endocrine system_Glucagon signaling pathway [PATH:ko04922]
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Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Xenobiotics biodegradation and metabolism_Nitrotoluene degradation [PATH:ko00633]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]

Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Xenobiotics biodegradation and metabolism_Nitrotoluene degradation [PATH:ko00633]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Xenobiotics biodegradation and metabolism_Nitrotoluene degradation [PATH:ko00633]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Xenobiotics biodegradation and metabolism_Nitrotoluene degradation [PATH:ko00633]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Biosynthesis of other secondary metabolites_Prodigiosin biosyntheses [PATH:ko00333]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Metabolism of cofactors and vitamins_Biotin metabolism [PATH:ko00780]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00040]
Metabolism_Biosynthesis of other secondary metabolites_Novobiocin biosynthesis [PATH:ko00401]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00040]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00040]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Metabolism_Biosynthesis of other secondary metabolites_Monobactam biosynthesis [PATH:ko00026]
Metabolism_Metabolism of terpenoids and polyketides_Biosynthesis of siderophore group nonribosomal
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00040]

Metabolism_Biosynthesis of other secondary metabolites_Novobiocin biosynthesis [PATH:ko00401]
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Metabolism_Lipid metabolism_Steroid biosynthesis [PATH:ko00100]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00053]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00053]
Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Environmental Information Processing_Signal transduction_cAMP signaling pathway [PATH:ko0402]
Metabolism_Lipid metabolism_alpha-Linolenic acid metabolism [PATH:ko00592]
Metabolism_Lipid metabolism_Biosynthesis of unsaturated fatty acids [PATH:ko01040]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Organismal_Endocrine system_PPAR signaling pathway [PATH:ko03320]
Human Diseases_Endocrine and metabolic diseases_Non-alcoholic fatty liver disease (NAFLD) [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Human Diseases_Endocrine and metabolic diseases_Non-alcoholic fatty liver disease (NAFLD) [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Human Diseases_Infectious diseases_Legionellosis [PATH:ko05134]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]

Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Organismal_Endocrine system_PPAR signaling pathway [PATH:ko03320]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Organismal_Endocrine system_PPAR signaling pathway [PATH:ko03320]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Metabolism of other amino acids_Taurine and hypotaurine metabolism [PATH:ko00430]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko000910]
Metabolism_Metabolism of other amino acids_Taurine and hypotaurine metabolism [PATH:ko00430]
Cellular Processes_Cell growth and death_Necroptosis [PATH:ko04217]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko000910]
Metabolism_Metabolism of other amino acids_D-Glutamine and D-glutamate metabolism [PATH:ko004964]
Organismal_Excretory system_Proximal tubule bicarbonate reclamation [PATH:ko04964]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko000910]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine biosynthesis [PATH:ko00290]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko000910]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko000910]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko000910]
Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]

Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
 Metabolism_Biosynthesis of other secondary metabolites_Penicillin and cephalosporin biosynthesis
 Metabolism_Metabolism of other amino acids_D-Arginine and D-ornithine metabolism [PATH:ko004
 Human Diseases_Substance dependence_Alcoholism [PATH:ko05034]
 Human Diseases_Substance dependence_Amphetamine addiction [PATH:ko05031]
 Human Diseases_Substance dependence_Cocaine addiction [PATH:ko05030]
 Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
 Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
 Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
 Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
 Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
 Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
 Metabolism_Biosynthesis of other secondary metabolites_Isoquinoline alkaloid biosynthesis [PATH:
 Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - cytochrome P450 [PAT
 Organismal_Nervous system_Dopaminergic synapse [PATH:ko04728]
 Organismal_Nervous system_Serotonergic synapse [PATH:ko04726]
 Metabolism_Metabolism of cofactors and vitamins_Vitamin B6 metabolism [PATH:ko00750]
 Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
 Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
 Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
 Metabolism_Biosynthesis of other secondary metabolites_Isoquinoline alkaloid biosynthesis [PATH:
 Metabolism_Biosynthesis of other secondary metabolites_Tropane piperidine and pyridine alkaloid I
 Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
 Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
 Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:
 Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
 Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
 Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
 Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
 Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
 Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
 Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
 Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
 Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
 Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
 Human Diseases_Drug resistance_Antifolate resistance [PATH:ko01523]
 Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
 Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
 Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
 Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
 Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
 Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
 Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
 Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
 Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
 Human Diseases_Drug resistance_Antifolate resistance [PATH:ko01523]
 Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
 Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
 Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]

Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
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Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00260]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00260]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00260]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
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Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Human Diseases_Cancers_Hepatocellular carcinoma [PATH:ko05225]
Human Diseases_Cancers_Pathways in cancer [PATH:ko05200]
Human Diseases_Cardiovascular diseases_Fluid shear stress and atherosclerosis [PATH:ko05418]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00260]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Biosynthesis of other secondary metabolites_Caffeine metabolism [PATH:ko00232]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]

Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Organismal_Endocrine system_Thyroid hormone synthesis [PATH:ko04918]
Metabolism_Metabolism of other amino acids_Selenocompound metabolism [PATH:ko00450]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Human Diseases_Endocrine and metabolic diseases_Non-alcoholic fatty liver disease (NAFLD) [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Circulatory system_Cardiac muscle contraction [PATH:ko04260]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Human Diseases_Endocrine and metabolic diseases_Non-alcoholic fatty liver disease (NAFLD) [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Circulatory system_Cardiac muscle contraction [PATH:ko04260]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Human Diseases_Endocrine and metabolic diseases_Non-alcoholic fatty liver disease (NAFLD) [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]

Organismal_Circulatory system_Cardiac muscle contraction [PATH:ko04260]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Human Diseases_Immune diseases_Autoimmune thyroid disease [PATH:ko05320]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Organismal_Endocrine system_Thyroid hormone synthesis [PATH:ko04918]
Metabolism_Lipid metabolism_Arachidonic acid metabolism [PATH:ko00590]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Organismal_Endocrine system_Thyroid hormone synthesis [PATH:ko04918]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00053]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Polycyclic aromatic hydrocarbon degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Polycyclic aromatic hydrocarbon degradation [PATH:ko00362]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Xenobiotics biodegradation and metabolism_Styrene degradation [PATH:ko00643]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00053]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Inositol phosphate metabolism [PATH:ko00562]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Metabolism_Xenobiotics biodegradation and metabolism_Dioxin degradation [PATH:ko00621]
Metabolism_Xenobiotics biodegradation and metabolism_Naphthalene degradation [PATH:ko00626]
Metabolism_Xenobiotics biodegradation and metabolism_Polycyclic aromatic hydrocarbon degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - cytochrome P450 [PATH:ko00362]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]

Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko006
 Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
 Metabolism_Xenobiotics biodegradation and metabolism_Caprolactam degradation [PATH:ko00930
 Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
 Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
 Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko
 Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
 Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
 Metabolism_Biosynthesis of other secondary metabolites_Betalain biosynthesis [PATH:ko00965]
 Metabolism_Biosynthesis of other secondary metabolites_Isoquinoline alkaloid biosynthesis [PATH:
 Organismal_Endocrine system_Melanogenesis [PATH:ko04916]
 Environmental Information Processing_Signal transduction_AMPK signaling pathway [PATH:ko0415
 Metabolism_Lipid metabolism_Biosynthesis of unsaturated fatty acids [PATH:ko01040]
 Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
 Organismal_Aging_Longevity regulating pathway - worm [PATH:ko04212]
 Organismal_Endocrine system_PPAR signaling pathway [PATH:ko03320]
 Metabolism_Lipid metabolism_Linoleic acid metabolism [PATH:ko00591]
 Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
 Cellular Processes_Cell growth and death_Ferroptosis [PATH:ko04216]
 Environmental Information Processing_Signal transduction_HIF-1 signaling pathway [PATH:ko0406
 Human Diseases_Cancers_Hepatocellular carcinoma [PATH:ko05225]
 Human Diseases_Cancers_MicroRNAs in cancer [PATH:ko05206]
 Human Diseases_Cancers_Pathways in cancer [PATH:ko05200]
 Human Diseases_Cardiovascular diseases_Fluid shear stress and atherosclerosis [PATH:ko05418]
 Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko
 Organismal_Digestive system_Mineral absorption [PATH:ko04978]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00!
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
 Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
 Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
 Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
 Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
 Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
 Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
 Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
 Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
 Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
 Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
 Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
 Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
 Metabolism_Metabolism of other amino acids_Selenocompound metabolism [PATH:ko00450]
 Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
 Metabolism_Metabolism of other amino acids_Selenocompound metabolism [PATH:ko00450]
 Cellular Processes_Transport and catabolism_Prokaryotic Defense System [BR:ko02048]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:k
 Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
 Human Diseases_Cancers_MicroRNAs in cancer [PATH:ko05206]
 Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]

Metabolism_Lipid metabolism_Steroid biosynthesis [PATH:ko00100]
Human Diseases_Drug resistance_Antifolate resistance [PATH:ko01523]
Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00564]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00564]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Biosynthesis of other secondary metabolites_Flavonoid biosynthesis [PATH:ko00941]
Metabolism_Biosynthesis of other secondary metabolites_Phenylpropanoid biosynthesis [PATH:ko00941]
Metabolism_Biosynthesis of other secondary metabolites_Stilbenoid diarylheptanoid and gingerol biosynthesis [PATH:ko00941]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00564]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00564]
Human Diseases_Drug resistance_Antifolate resistance [PATH:ko01523]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
Metabolism_Metabolism of other amino acids_Cyanoamino acid metabolism [PATH:ko00460]
Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Human Diseases_Drug resistance_Antifolate resistance [PATH:ko01523]
Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00564]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Metabolism of terpenoids and polyketides_Biosynthesis of ansamycins [PATH:ko01051]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]

Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Metabolism of other amino acids_Taurine and hypotaurine metabolism [PATH:ko00430]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Lipid metabolism_Synthesis and degradation of ketone bodies [PATH:ko00072]
Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00052]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Lipid metabolism_alpha-Linolenic acid metabolism [PATH:ko00592]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Metabolism of terpenoids and polyketides_Geraniol degradation [PATH:ko00281]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Ethylbenzene degradation [PATH:ko00642]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko00001]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00001]
Metabolism_Biosynthesis of other secondary metabolites_Prodigiosin biosyntheses [PATH:ko00333]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Metabolism of cofactors and vitamins_Biotin metabolism [PATH:ko00780]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]

Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Metabolism of cofactors and vitamins_Biotin metabolism [PATH:ko00780]
Cellular Processes_Transport and catabolism_Autophagy - yeast [PATH:ko04138]
Environmental Information Processing_Signal transduction_Sphingolipid signaling pathway [PATH:ko00600]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Lipid metabolism_Sphingolipid metabolism [PATH:ko00600]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Cellular Processes_Cell growth and death_Ferroptosis [PATH:ko04216]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Biosynthesis of other secondary metabolites_Flavonoid biosynthesis [PATH:ko00941]
Metabolism_Metabolism of terpenoids and polyketides_Polyketide biosynthesis proteins [BR:ko01004]
Organismal_Environmental adaptation_Circadian rhythm - plant [PATH:ko04712]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01500]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00540]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko01004]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Metabolism of other amino acids_Cyanoamino acid metabolism [PATH:ko00460]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Metabolism_Metabolism of other amino acids_Taurine and hypotaurine metabolism [PATH:ko00430]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Cellular Processes_Cell growth and death_Necroptosis [PATH:ko04217]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko00491]
Human Diseases_Endocrine and metabolic diseases_Insulin resistance [PATH:ko04931]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Organismal_Endocrine system_Glucagon signaling pathway [PATH:ko04922]
Organismal_Endocrine system_Insulin signaling pathway [PATH:ko04910]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Environmental Information Processing_Signal transduction_AMPK signaling pathway [PATH:ko04150]
Environmental Information Processing_Signal transduction_P13K-Akt signaling pathway [PATH:ko04150]
Human Diseases_Endocrine and metabolic diseases_Insulin resistance [PATH:ko04931]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Organismal_Endocrine system_Glucagon signaling pathway [PATH:ko04922]
Organismal_Endocrine system_Insulin signaling pathway [PATH:ko04910]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko00050]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Human Diseases_Cancers_Chemical carcinogenesis [PATH:ko05204]
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Lipid metabolism_Steroid hormone biosynthesis [PATH:ko00140]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00050]
Metabolism_Metabolism of cofactors and vitamins_Retinol metabolism [PATH:ko00830]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - cytochrome P450 [PATH:ko00050]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - other enzymes [PATH:ko00050]
Metabolism_Xenobiotics biodegradation and metabolism_Metabolism of xenobiotics by cytochrome P450 [PATH:ko00050]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko00050]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Glycan biosynthesis and metabolism_Glycosphingolipid biosynthesis - lacto and neolac [PATH:ko00050]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Mucin type O-glycan biosynthesis [PATH:ko00050]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_N-Glycan biosynthesis [PATH:ko00050]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Mannose type O-glycan biosynthesis [PATH:ko00050]
Metabolism_Glycan biosynthesis and metabolism_Other types of O-glycan biosynthesis [PATH:ko00050]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_N-Glycan biosynthesis [PATH:ko00050]
Metabolism_Glycan biosynthesis and metabolism_Glycosphingolipid biosynthesis - lacto and neolac [PATH:ko00050]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00050]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00050]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - other enzymes [PATH:ko00050]
Human Diseases_Cancers_Bladder cancer [PATH:ko05219]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - other enzymes [PATH:ko00050]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]

Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - other enzymes [PATH:
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan biosynthesis - chondroitin sul
Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan biosynthesis - heparan sulfat
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Genetic Information Processing_Translation_RNA transport [PATH:ko03013]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00!
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation prot
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Metabolism of terpenoids and polyketides_Prenyltransferases [BR:ko01006]
Metabolism_Metabolism of terpenoids and polyketides_Zeatin biosynthesis [PATH:ko00908]
Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
Metabolism_Metabolism of terpenoids and polyketides_Prenyltransferases [BR:ko01006]
Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:koC
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Cancers_Chemical carcinogenesis [PATH:ko05204]
Human Diseases_Cancers_Hepatocellular carcinoma [PATH:ko05225]
Human Diseases_Cancers_Pathways in cancer [PATH:ko05200]
Human Diseases_Cardiovascular diseases_Fluid shear stress and atherosclerosis [PATH:ko05418]
Human Diseases_Drug resistance_Platinum drug resistance [PATH:ko01524]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - cytochrome P450 [PAT
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - other enzymes [PATH:
Metabolism_Xenobiotics biodegradation and metabolism_Metabolism of xenobiotics by cytochrome
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko
Metabolism_Lipid metabolism_Steroid biosynthesis [PATH:ko00100]

Metabolism_Metabolism of terpenoids and polyketides_Prenyltransferases [BR:ko01006]
Metabolism_Metabolism of terpenoids and polyketides_Sesquiterpenoid and triterpenoid biosynthesis [BR:ko01006]
Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Metabolism_Lipid metabolism_Ether lipid metabolism [PATH:ko00565]
Metabolism_Metabolism of terpenoids and polyketides_Prenyltransferases [BR:ko01006]
Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00052]
Metabolism_Metabolism of terpenoids and polyketides_Prenyltransferases [BR:ko01006]
Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00052]
Metabolism_Biosynthesis of other secondary metabolites_Tropane piperidine and pyridine alkaloid biosynthesis [PATH:ko00052]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00350]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Biosynthesis of other secondary metabolites_Isoquinoline alkaloid biosynthesis [PATH:ko00401]
Metabolism_Biosynthesis of other secondary metabolites_Novobiocin biosynthesis [PATH:ko00401]
Metabolism_Biosynthesis of other secondary metabolites_Tropane piperidine and pyridine alkaloid biosynthesis [PATH:ko00052]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00350]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Biosynthesis of other secondary metabolites_Isoquinoline alkaloid biosynthesis [PATH:ko00401]
Metabolism_Biosynthesis of other secondary metabolites_Novobiocin biosynthesis [PATH:ko00401]
Metabolism_Biosynthesis of other secondary metabolites_Tropane piperidine and pyridine alkaloid biosynthesis [PATH:ko00052]
Human Diseases_Cancers_Chemical carcinogenesis [PATH:ko05204]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Metabolism of other amino acids_Selenocompound metabolism [PATH:ko00450]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00350]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Biosynthesis of other secondary metabolites_Novobiocin biosynthesis [PATH:ko00401]
Metabolism_Biosynthesis of other secondary metabolites_Tropane piperidine and pyridine alkaloid biosynthesis [PATH:ko00052]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Human Diseases_Endocrine and metabolic diseases_Insulin resistance [PATH:ko04931]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00052]

Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
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 Metabolism_Glycan biosynthesis and metabolism_Glycosylphosphatidylinositol (GPI)-anchored prot
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Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
Human Diseases_Cancers_Choline metabolism in cancer [PATH:ko05231]
Metabolism_Lipid metabolism_Ether lipid metabolism [PATH:ko00565]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Organismal_Endocrine system_GnRH signaling pathway [PATH:ko04912]
Organismal_Endocrine system_Parathyroid hormone synthesis secretion and action [PATH:ko04921
Organismal_Immune system_Fc gamma R-mediated phagocytosis [PATH:ko04666]
Organismal_Nervous system_Glutamatergic synapse [PATH:ko04724]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Lipid metabolism_Ether lipid metabolism [PATH:ko00565]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Lipid metabolism_Sphingolipid metabolism [PATH:ko00600]
Metabolism_Lipid metabolism_Steroid hormone biosynthesis [PATH:ko00140]
Metabolism_Lipid metabolism_Steroid hormone biosynthesis [PATH:ko00140]
Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]
Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan degradation [PATH:ko00531]
Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]
Metabolism_Lipid metabolism_Sphingolipid metabolism [PATH:ko00600]
Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]
Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan degradation [PATH:ko00531]
Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]
Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan degradation [PATH:ko00531]
Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]

Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan degradation [PATH:ko00531]
Genetic Information Processing_Translation_Ribosome biogenesis [BR:ko03009]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
Cellular Processes_Cell growth and death_Apoptosis [PATH:ko04210]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Organismal_Digestive system_Carbohydrate digestion and absorption [PATH:ko04973]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00!
Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]
Environmental Information Processing_Signaling molecules and interaction_Bacterial toxins [BR:ko
Metabolism_Glycan biosynthesis and metabolism_Other glycan degradation [PATH:ko00511]
Metabolism_Lipid metabolism_Sphingolipid metabolism [PATH:ko00600]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Biosynthesis of other secondary metabolites_Phenylpropanoid biosynthesis [PATH:ko0
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Metabolism of other amino acids_Cyanoamino acid metabolism [PATH:ko00460]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Glycan biosynthesis and metabolism_Other glycan degradation [PATH:ko00511]
Metabolism_Lipid metabolism_Sphingolipid metabolism [PATH:ko00600]
Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
Metabolism_Glycan biosynthesis and metabolism_Other glycan degradation [PATH:ko00511]
Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]
Metabolism_Glycan biosynthesis and metabolism_Other glycan degradation [PATH:ko00511]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Glycan biosynthesis and metabolism_Glycosylphosphatidylinositol (GPI)-anchored prot
Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]
Metabolism_Biosynthesis of other secondary metabolites_Flavone and flavonol biosynthesis [PATH:
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan degradation [PATH:ko00531]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - other enzymes [PATH:
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00!
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]

Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]
Metabolism_Glycan biosynthesis and metabolism_Other glycan degradation [PATH:ko00511]
Metabolism_Lipid metabolism_Sphingolipid metabolism [PATH:ko00600]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]
Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan degradation [PATH:ko00531]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Glycan biosynthesis and metabolism_Other glycan degradation [PATH:ko00511]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00511]
Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan degradation [PATH:ko00531]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00511]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]
Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan degradation [PATH:ko00531]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Glycan biosynthesis and metabolism_Other glycan degradation [PATH:ko00511]
Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
Genetic Information Processing_Translation_Protein processing in endoplasmic reticulum [PATH:ko00511]
Metabolism_Glycan biosynthesis and metabolism_N-Glycan biosynthesis [PATH:ko00510]
Metabolism_Glycan biosynthesis and metabolism_Various types of N-glycan biosynthesis [PATH:ko00510]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00511]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00511]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03410]
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03410]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Enzyme families_Protein phosphatase and associated proteins [BR:ko01009]
Metabolism_Metabolism of terpenoids and polyketides_Biosynthesis of siderophore group nonribosomal peptides [BR:ko01009]
Metabolism_Metabolism of terpenoids and polyketides_Polyketide biosynthesis proteins [BR:ko01009]
Human Diseases_Cancers_Chemical carcinogenesis [PATH:ko05204]

Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Xenobiotics biodegradation and metabolism_Metabolism of xenobiotics by cytochrome
Organismal_Digestive system_Bile secretion [PATH:ko04976]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Lipid metabolism_Arachidonic acid metabolism [PATH:ko00590]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Cellular Processes_Cell growth and death_Apoptosis [PATH:ko04210]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]
Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Signaling molecules and interaction_CD Molecules [BR:ko04147]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Organismal_Digestive system_Protein digestion and absorption [PATH:ko04974]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Signaling molecules and interaction_CD Molecules [BR:ko04147]
Human Diseases_Cardiovascular diseases_Hypertrophic cardiomyopathy (HCM) [PATH:ko05410]
Human Diseases_Infectious diseases_Chagas disease (American trypanosomiasis) [PATH:ko05142]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Organismal_Endocrine system_Renin secretion [PATH:ko04924]
Organismal_Endocrine system_Renin-angiotensin system [PATH:ko04614]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Organismal_Digestive system_Pancreatic secretion [PATH:ko04972]
Organismal_Digestive system_Protein digestion and absorption [PATH:ko04974]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Organismal_Digestive system_Pancreatic secretion [PATH:ko04972]
Organismal_Digestive system_Protein digestion and absorption [PATH:ko04974]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Signaling molecules and interaction_Neuroactive ligand-rec
Human Diseases_Infectious diseases_Influenza A [PATH:ko05164]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Organismal_Digestive system_Pancreatic secretion [PATH:ko04972]
Organismal_Digestive system_Protein digestion and absorption [PATH:ko04974]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Organismal_Endocrine system_Renin-angiotensin system [PATH:ko04614]
Cellular Processes_Transport and catabolism_Autophagy - yeast [PATH:ko04138]
Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]

Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Environmental Information Processing_Signal transduction_Apelin signaling pathway [PATH:ko043]
Human Diseases_Cancers_Prostate cancer [PATH:ko05215]
Human Diseases_Cancers_Transcriptional misregulation in cancers [PATH:ko05202]
Human Diseases_Cardiovascular diseases_Fluid shear stress and atherosclerosis [PATH:ko05418]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan binding proteins [BR:ko0053]
Organismal_Immune system_Complement and coagulation cascades [PATH:ko04610]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Organismal_Digestive system_Pancreatic secretion [PATH:ko04972]
Organismal_Digestive system_Protein digestion and absorption [PATH:ko04974]
Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
Human Diseases_Infectious diseases_Influenza A [PATH:ko05164]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Human Diseases_Infectious diseases_African trypanosomiasis [PATH:ko05143]
Human Diseases_Infectious diseases_Chagas disease (American trypanosomiasis) [PATH:ko05142]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Organismal_Aging_Longevity regulating pathway - worm [PATH:ko04212]
Human Diseases_Infectious diseases_African trypanosomiasis [PATH:ko05143]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Organismal_Endocrine system_Renin-angiotensin system [PATH:ko04614]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Organismal_Endocrine system_Renin-angiotensin system [PATH:ko04614]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko0150]
Human Diseases_Infectious diseases_Staphylococcus aureus infection [PATH:ko05150]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko0150]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Metabolism of other amino acids_Cyanoamino acid metabolism [PATH:ko00460]
Human Diseases_Cancers_Central carbon metabolism in cancer [PATH:ko05230]
Human Diseases_Cancers_MicroRNAs in cancer [PATH:ko05206]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Metabolism of other amino acids_D-Glutamine and D-glutamate metabolism [PATH:ko00250]
Organismal_Excretory system_Proximal tubule bicarbonate reclamation [PATH:ko04964]
Organismal_Nervous system_GABAergic synapse [PATH:ko04727]
Organismal_Nervous system_Glutamatergic synapse [PATH:ko04724]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko006]
Metabolism_Xenobiotics biodegradation and metabolism_Styrene degradation [PATH:ko00643]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]

Metabolism_Xenobiotics biodegradation and metabolism_Atrazine degradation [PATH:ko00791]
Human Diseases_Infectious diseases_Epithelial cell signaling in Helicobacter pylori infection
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Xenobiotics biodegradation and metabolism_Atrazine degradation [PATH:ko00791]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Xenobiotics biodegradation and metabolism_Atrazine degradation [PATH:ko00791]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Xenobiotics biodegradation and metabolism_Atrazine degradation [PATH:ko00791]
Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00791]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - other enzymes [PATH:ko00791]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
Metabolism_Biosynthesis of other secondary metabolites_Penicillin and cephalosporin biosynthesis
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00791]
Organismal_Aging_Longevity regulating pathway - multiple species [PATH:ko04213]
Metabolism_Lipid metabolism_Primary bile acid biosynthesis [PATH:ko00120]
Metabolism_Lipid metabolism_Secondary bile acid biosynthesis [PATH:ko00121]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00791]
Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]
Metabolism_Glycan biosynthesis and metabolism_Other glycan degradation [PATH:ko00511]
Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko00060]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteins
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Metabolism_Metabolism of other amino acids_Cyanoamino acid metabolism [PATH:ko00460]
Genetic Information Processing_Translation_Protein processing in endoplasmic reticulum [PATH:ko00791]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Xenobiotics biodegradation and metabolism_Atrazine degradation [PATH:ko00791]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00791]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - other enzymes [PATH:ko00791]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]

Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Human Diseases_Infectious diseases_Amoebiasis [PATH:ko05146]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Human Diseases_Immune diseases_Primary immunodeficiency [PATH:ko05340]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - other enzymes [PATH:
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Metabolism_Metabolism of other amino acids_Cyanoamino acid metabolism [PATH:ko00460]
Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko006
Metabolism_Xenobiotics biodegradation and metabolism_Styrene degradation [PATH:ko00643]
Metabolism_Xenobiotics biodegradation and metabolism_Styrene degradation [PATH:ko00643]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko006
Environmental Information Processing_Signaling molecules and interaction_CD Molecules [BR:ko04
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Glycan biosynthesis and metabolism_Glycosylphosphatidylinositol (GPI)-anchored prot
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00
Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00

Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - other enzymes [PATH:
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - other enzymes [PATH:
Human Diseases_Cancers_Non-small cell lung cancer [PATH:ko05223]
Human Diseases_Cancers_Small cell lung cancer [PATH:ko05222]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Xenobiotics biodegradation and metabolism_Styrene degradation [PATH:ko00643]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Xenobiotics biodegradation and metabolism_Chloroalkane and chloroalkene degradati
Metabolism_Xenobiotics biodegradation and metabolism_Chlorocyclohexane and chlorobenzene de
Metabolism_Xenobiotics biodegradation and metabolism_Chloroalkane and chloroalkene degradati
Metabolism_Xenobiotics biodegradation and metabolism_Chlorocyclohexane and chlorobenzene de
Metabolism_Xenobiotics biodegradation and metabolism_Chloroalkane and chloroalkene degradati
Metabolism_Xenobiotics biodegradation and metabolism_Chlorocyclohexane and chlorobenzene de
Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]
Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan degradation [PATH:ko00531]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Lipid metabolism_Synthesis and degradation of ketone bodies [PATH:ko00072]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_C5-Branched dibasic acid metabolism [PATH:ko00660]
Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko006
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Environmental Information Processing_Signal transduction_AMPK signaling pathway [PATH:ko0415
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]

Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
 Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00410]
 Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
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 Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
 Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
 Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
 Metabolism_Metabolism of other amino acids_Taurine and hypotaurine metabolism [PATH:ko00430]
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 Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
 Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
 Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
 Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
 Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
 Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
 Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
 Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
 Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
 Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
 Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
 Metabolism_Biosynthesis of other secondary metabolites_Isoquinoline alkaloid biosynthesis [PATH:ko00415]
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 Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
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 Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
 Metabolism_Biosynthesis of other secondary metabolites_Betalain biosynthesis [PATH:ko00965]
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 Metabolism_Metabolism of other amino acids_Taurine and hypotaurine metabolism [PATH:ko00430]
 Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
 Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
 Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
 Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
 Environmental Information Processing_Signal transduction_AMPK signaling pathway [PATH:ko0415]
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 Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
 Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
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Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00031]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
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Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
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Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
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Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00069]
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Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
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Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
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 Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
 Metabolism_Lipid metabolism_Synthesis and degradation of ketone bodies [PATH:ko00072]
 Metabolism_Metabolism of terpenoids and polyketides_Geraniol degradation [PATH:ko00281]
 Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
 Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
 Metabolism_Lipid metabolism_Synthesis and degradation of ketone bodies [PATH:ko00072]
 Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00052]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
 Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
 Metabolism_Amino acid metabolism_Valine leucine and isoleucine biosynthesis [PATH:ko00290]
 Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
 Metabolism_Amino acid metabolism_Valine leucine and isoleucine biosynthesis [PATH:ko00290]
 Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
 Metabolism_Carbohydrate metabolism_C5-Branched dibasic acid metabolism [PATH:ko00660]
 Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00031]
 Metabolism_Amino acid metabolism_Valine leucine and isoleucine biosynthesis [PATH:ko00290]
 Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
 Metabolism_Carbohydrate metabolism_C5-Branched dibasic acid metabolism [PATH:ko00660]
 Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00031]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00620]
 Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
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 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
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 Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00353]
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 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
 Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
 Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00353]
 Metabolism_Biosynthesis of other secondary metabolites_Phenazine biosynthesis [PATH:ko00405]
 Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
 Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00730]
 Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]
 Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00052]
 Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
 Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
 Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
 Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
 Metabolism_Xenobiotics biodegradation and metabolism_Dioxin degradation [PATH:ko00621]
 Metabolism_Xenobiotics biodegradation and metabolism_Xylene degradation [PATH:ko00622]
 Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
 Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
 Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
 Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]

Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Human Diseases_Cancers_Pathways in cancer [PATH:ko05200]
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Human Diseases_Endocrine and metabolic diseases_Cushing's syndrome [PATH:ko04934]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
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Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
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Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
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Metabolism_Amino acid metabolism_Valine leucine and isoleucine biosynthesis [PATH:ko00290]
Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00054]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Signal transduction_HIF-1 signaling pathway [PATH:ko0406]
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Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
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Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Metabolism of terpenoids and polyketides_Geraniol degradation [PATH:ko00281]
Metabolism_Metabolism of terpenoids and polyketides_Limonene and pinene degradation [PATH:ko00282]
Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko0006]
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Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00350]

Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
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Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00260]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine biosynthesis [PATH:ko00290]
Metabolism_Biosynthesis of other secondary metabolites_Glucosinolate biosynthesis [PATH:ko00960]
Metabolism_Carbohydrate metabolism_C5-Branched dibasic acid metabolism [PATH:ko00660]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine biosynthesis [PATH:ko00290]
Metabolism_Carbohydrate metabolism_C5-Branched dibasic acid metabolism [PATH:ko00660]
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00053]
Metabolism_Biosynthesis of other secondary metabolites_Acarbose and validamycin biosynthesis [PATH:ko00053]
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Metabolism_Metabolism of terpenoids and polyketides_Polyketide sugar unit biosynthesis [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
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Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko00066]
Metabolism_Xenobiotics biodegradation and metabolism_Fluorobenzoate degradation [PATH:ko00066]
Metabolism_Xenobiotics biodegradation and metabolism_Styrene degradation [PATH:ko00643]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
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Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Metabolism of cofactors and vitamins_Vitamin B6 metabolism [PATH:ko00750]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00260]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00260]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]

Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Metabolism of other amino acids_Selenocompound metabolism [PATH:ko00450]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine biosynthesis [PATH:ko00290]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
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Metabolism_Metabolism of other amino acids_Selenocompound metabolism [PATH:ko00450]
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Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Metabolism of other amino acids_Selenocompound metabolism [PATH:ko00450]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
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Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00059]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00330]
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Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteins
Metabolism_Metabolism of other amino acids_D-Alanine metabolism [PATH:ko00473]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteins
Metabolism_Metabolism of other amino acids_D-Glutamine and D-glutamate metabolism [PATH:ko00029]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
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Metabolism_Metabolism of terpenoids and polyketides_Nonribosomal peptide structures [PATH:ko00059]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Lipid metabolism_Biosynthesis of unsaturated fatty acids [PATH:ko01040]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]

Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Metabolism of terpenoids and polyketides_Geraniol degradation [PATH:ko00281]
Metabolism_Metabolism of terpenoids and polyketides_Limonene and pinene degradation [PATH:ko00281]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Caprolactam degradation [PATH:ko00930]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00052]
Metabolism_Biosynthesis of other secondary metabolites_Streptomycin biosynthesis [PATH:ko00052]
Metabolism_Metabolism of terpenoids and polyketides_Polyketide sugar unit biosynthesis [PATH:ko00052]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00052]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00052]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Metabolism_Lipid metabolism_Primary bile acid biosynthesis [PATH:ko00120]
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Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00052]
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Metabolism_Xenobiotics biodegradation and metabolism_Styrene degradation [PATH:ko00643]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Inositol phosphate metabolism [PATH:ko00562]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]

Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Dioxin degradation [PATH:ko00621]
Metabolism_Xenobiotics biodegradation and metabolism_Xylene degradation [PATH:ko00622]
Metabolism_Lipid metabolism_Steroid hormone biosynthesis [PATH:ko00140]
Metabolism_Xenobiotics biodegradation and metabolism_Steroid degradation [PATH:ko00984]
Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00051]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Lipid metabolism_Biosynthesis of unsaturated fatty acids [PATH:ko01040]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Metabolism of terpenoids and polyketides_Geraniol degradation [PATH:ko00281]
Metabolism_Metabolism of terpenoids and polyketides_Limonene and pinene degradation [PATH:ko00281]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Caprolactam degradation [PATH:ko00930]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Enzyme families_Cytochrome P450 [BR:ko00199]
Metabolism_Lipid metabolism_Arachidonic acid metabolism [PATH:ko00590]
Organismal_Immune system_Platelet activation [PATH:ko04611]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
Human Diseases_Cancers_Central carbon metabolism in cancer [PATH:ko05230]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Organismal_Endocrine system_Glucagon signaling pathway [PATH:ko04922]
Metabolism_Biosynthesis of other secondary metabolites_Streptomycin biosynthesis [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]

Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00028]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00028]
Metabolism_Metabolism of terpenoids and polyketides_Biosynthesis of siderophore group nonribosomal peptides [PATH:ko00028]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00028]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Chlorocyclohexane and chlorobenzene degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Fluorobenzoate degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Toluene degradation [PATH:ko00623]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Biosynthesis of other secondary metabolites_Streptomycin biosynthesis [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Inositol phosphate metabolism [PATH:ko00562]
Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]

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Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Cellular Processes_Cell growth and death_Ferroptosis [PATH:ko04216]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Organismal_Endocrine system_Adipocytokine signaling pathway [PATH:ko04920]
Organismal_Endocrine system_PPAR signaling pathway [PATH:ko03320]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Metabolism_Carbohydrate metabolism_C5-Branched dibasic acid metabolism [PATH:ko00660]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Carbohydrate metabolism_C5-Branched dibasic acid metabolism [PATH:ko00660]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Biosynthesis of other secondary metabolites_Phenylpropanoid biosynthesis [PATH:ko00060]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00060]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00060]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko00060]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Metabolism of other amino acids_Cyanoamino acid metabolism [PATH:ko00460]
Cellular Processes_Cell growth and death_Necroptosis [PATH:ko04217]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02024]

Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Organismal_Nervous system_GABAergic synapse [PATH:ko04727]
Organismal_Nervous system_Glutamatergic synapse [PATH:ko04724]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00031]
Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00032]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Human Diseases_Drug resistance_Vancomycin resistance [PATH:ko01502]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteolysis [PATH:ko00551]
Metabolism_Metabolism of other amino acids_D-Alanine metabolism [PATH:ko00473]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteolysis [PATH:ko00551]
Metabolism_Metabolism of other amino acids_D-Glutamine and D-glutamate metabolism [PATH:ko00461]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteolysis [PATH:ko00551]
Metabolism_Metabolism of other amino acids_D-Glutamine and D-glutamate metabolism [PATH:ko00461]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteolysis [PATH:ko00551]
Human Diseases_Drug resistance_Vancomycin resistance [PATH:ko01502]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteolysis [PATH:ko00551]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
Metabolism_Metabolism of cofactors and vitamins_Biotin metabolism [PATH:ko00780]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Human Diseases_Cardiovascular diseases_Fluid shear stress and atherosclerosis [PATH:ko05418]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00031]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - other enzymes [PATH:ko00001]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]

Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_Non-homologous end-joining [PATH:ko0345]
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
Genetic Information Processing_Replication and repair_Nucleotide excision repair [PATH:ko03420]
Metabolism_Glycan biosynthesis and metabolism_Glycosphingolipid biosynthesis - globo and isoglo
Metabolism_Glycan biosynthesis and metabolism_Glycosphingolipid biosynthesis - lacto and neolac
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]

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Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Photosynthesis [PATH:ko00195]
Metabolism_Energy metabolism_Photosynthesis proteins [BR:ko00194]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Photosynthesis [PATH:ko00195]
Metabolism_Energy metabolism_Photosynthesis proteins [BR:ko00194]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Photosynthesis [PATH:ko00195]
Metabolism_Energy metabolism_Photosynthesis proteins [BR:ko00194]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Photosynthesis [PATH:ko00195]
Metabolism_Energy metabolism_Photosynthesis proteins [BR:ko00194]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Photosynthesis [PATH:ko00195]
Metabolism_Energy metabolism_Photosynthesis proteins [BR:ko00194]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Photosynthesis [PATH:ko00195]
Metabolism_Energy metabolism_Photosynthesis proteins [BR:ko00194]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Photosynthesis [PATH:ko00195]
Metabolism_Energy metabolism_Photosynthesis proteins [BR:ko00194]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Photosynthesis [PATH:ko00195]
Metabolism_Energy metabolism_Photosynthesis proteins [BR:ko00194]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Photosynthesis [PATH:ko00195]
Metabolism_Energy metabolism_Photosynthesis proteins [BR:ko00194]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Photosynthesis [PATH:ko00195]
Metabolism_Energy metabolism_Photosynthesis proteins [BR:ko00194]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]

Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Cellular Processes_Transport and catabolism_Phagosome [PATH:ko04145]
Environmental Information Processing_Signal transduction_mTOR signaling pathway [PATH:ko0415]
Human Diseases_Immune diseases_Rheumatoid arthritis [PATH:ko05323]
Human Diseases_Infectious diseases_Epithelial cell signaling in Helicobacter pylori infection
Human Diseases_Infectious diseases_Vibrio cholerae infection [PATH:ko05110]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Excretory system_Collecting duct acid secretion [PATH:ko04966]
Organismal_Nervous system_Synaptic vesicle cycle [PATH:ko04721]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Metabolism of cofactors and vitamins_Biotin metabolism [PATH:ko00780]
Metabolism_Metabolism of cofactors and vitamins_Biotin metabolism [PATH:ko00780]
Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00061]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00061]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Cellular Processes_Cell growth and death_Cell cycle [PATH:ko04110]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_Nucleotide excision repair [PATH:ko03420]
Genetic Information Processing_Transcription_Basal transcription factors [PATH:ko03022]
Genetic Information Processing_Transcription_Transcription machinery [BR:ko03021]
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko
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Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Human Diseases_Endocrine and metabolic diseases_Non-alcoholic fatty liver disease (NAFLD) [PAT
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Circulatory system_Cardiac muscle contraction [PATH:ko04260]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko
Metabolism_Metabolism of terpenoids and polyketides_Prenyltransferases [BR:ko01006]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Human Diseases_Endocrine and metabolic diseases_Non-alcoholic fatty liver disease (NAFLD) [PAT
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]

Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Circulatory system_Cardiac muscle contraction [PATH:ko04260]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
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Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Metabolism of terpenoids and polyketides_Carotenoid biosynthesis [PATH:ko00906]
Metabolism_Metabolism of terpenoids and polyketides_Prenyltransferases [BR:ko01006]
Metabolism_Metabolism of terpenoids and polyketides_Carotenoid biosynthesis [PATH:ko00906]
Metabolism_Metabolism of terpenoids and polyketides_Carotenoid biosynthesis [PATH:ko00906]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00190]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00190]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00190]
Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko03032]
Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03032]
Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
Genetic Information Processing_Replication and repair_Nucleotide excision repair [PATH:ko03420]
Human Diseases_Infectious diseases_HTLV-I infection [PATH:ko05166]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03032]
Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
Genetic Information Processing_Replication and repair_Nucleotide excision repair [PATH:ko03420]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03032]

Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
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Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
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Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
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Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
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Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosyn

Metabolism_Metabolism of terpenoids and polyketides_Biosynthesis of siderophore group nonribos

Metabolism_Metabolism of terpenoids and polyketides_Biosynthesis of siderophore group nonribos

Metabolism_Metabolism of terpenoids and polyketides_Polyketide biosynthesis proteins [BR:ko0100

Metabolism_Metabolism of terpenoids and polyketides_Biosynthesis of siderophore group nonribos

Metabolism_Metabolism of terpenoids and polyketides_Polyketide biosynthesis proteins [BR:ko0100

Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]

Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]

Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]

Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]

Metabolism_Metabolism of cofactors and vitamins_Biotin metabolism [PATH:ko00780]

Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko000

Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]

Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]

Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]

Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]

Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]

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Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]

Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko0

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa

Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]

Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]

Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]

Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]

Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]

Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]

Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]

Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]

Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko0

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko0

Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]

Genetic Information Processing_Transcription_Transcription machinery [BR:ko03021]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Human Diseases_Infectious diseases_Legionellosis [PATH:ko05134]
Human Diseases_Infectious diseases_Salmonella infection [PATH:ko05132]
Organismal_Environmental adaptation_Plant-pathogen interaction [PATH:ko04626]
Organismal_Immune system_NOD-like receptor signaling pathway [PATH:ko04621]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
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Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
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Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]
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Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]

Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
 Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
 Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
 Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
 Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
 Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
 Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
 Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
 Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
 Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
 Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
 Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
 Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
 Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
 Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko00000]
 Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko00000]
 Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko00000]
 Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko00000]
 Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko00000]
 Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko00000]
 Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko00000]
 Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko00000]
 Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko00000]
 Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko00000]
 Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
 Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko00000]
 Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
 Metabolism_Enzyme families_Peptidases [BR:ko01002]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko00000]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00000]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00000]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00000]
 Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00000]
 Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02022]
 Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02022]

Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00340]
 Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00340]
 Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
 Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
 Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
 Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
 Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
 Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00540]
 Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00540]
 Metabolism_Metabolism of terpenoids and polyketides_Prenyltransferases [BR:ko01006]
 Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00540]
 Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
 Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00540]
 Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00540]
 Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00540]
 Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00540]
 Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00540]
 Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00540]
 Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
 Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
 Metabolism_Enzyme families_Peptidases [BR:ko01002]
 Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00362]
 Metabolism_Metabolism of terpenoids and polyketides_Prenyltransferases [BR:ko01006]
 Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00362]
 Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00362]
 Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00362]
 Metabolism_Metabolism of terpenoids and polyketides_Biosynthesis of siderophore group nonribosomal peptides [PATH:ko00360]
 Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
 Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
 Metabolism_Xenobiotics biodegradation and metabolism_Dioxin degradation [PATH:ko00621]
 Metabolism_Xenobiotics biodegradation and metabolism_Xylene degradation [PATH:ko00622]
 Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
 Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
 Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
 Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
 Cellular Processes_Cell motility_Flagellar assembly [PATH:ko02040]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
 Human Diseases_Drug resistance_Vancomycin resistance [PATH:ko01502]
 Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
 Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteins [PATH:ko00550]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00550]
 Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
 Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan biosynthesis - heparan sulfat
 Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
 Environmental Information Processing_Signal transduction_Notch signaling pathway [PATH:ko0433]
 Human Diseases_Cancers_Breast cancer [PATH:ko05224]
 Human Diseases_Cancers_MicroRNAs in cancer [PATH:ko05206]
 Human Diseases_Cancers_Pathways in cancer [PATH:ko05200]
 Human Diseases_Drug resistance_Endocrine resistance [PATH:ko01522]
 Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
 Human Diseases_Neurodegenerative diseases_Prion diseases [PATH:ko05020]
 Organismal_Development_Dorso-ventral axis formation [PATH:ko04320]
 Organismal_Endocrine system_Thyroid hormone signaling pathway [PATH:ko04919]
 Organismal_Immune system_Th1 and Th2 cell differentiation [PATH:ko04658]
 Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
 Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
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 Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
 Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
 Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
 Metabolism_Energy metabolism_Photosynthesis [PATH:ko00195]
 Metabolism_Energy metabolism_Photosynthesis proteins [BR:ko00194]
 Metabolism_Energy metabolism_Photosynthesis [PATH:ko00195]
 Metabolism_Energy metabolism_Photosynthesis proteins [BR:ko00194]
 Metabolism_Energy metabolism_Photosynthesis [PATH:ko00195]
 Metabolism_Energy metabolism_Photosynthesis proteins [BR:ko00194]
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 Metabolism_Energy metabolism_Photosynthesis proteins [BR:ko00194]
 Metabolism_Energy metabolism_Photosynthesis [PATH:ko00195]
 Metabolism_Energy metabolism_Photosynthesis proteins [BR:ko00194]
 Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
 Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
 Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
 Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]

Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa

Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]

Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]

Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa

Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]

Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]

Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]

Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]

Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]

Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]

Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]

Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]

Metabolism_Enzyme families_Protein kinases [BR:ko01001]

Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PA

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00050]

Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PA

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]

Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PA

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]

Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PA

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]

Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PA

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]

Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PA

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]

Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PA

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko02035]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko02035]

Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PA

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00050]

Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]

Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko02035]

Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PA

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00050]

Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko02035]

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[illegible]

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Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Transcription_RNA polymerase [PATH:ko03020]
Genetic Information Processing_Transcription_Transcription machinery [BR:ko03021]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Transcription_RNA polymerase [PATH:ko03020]
Genetic Information Processing_Transcription_Transcription machinery [BR:ko03021]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Genetic Information Processing_Translation_Proteasome [BR:ko03051]
Genetic Information Processing_Translation_Proteasome [PATH:ko03050]
Human Diseases_Cancers_Viral carcinogenesis [PATH:ko05203]
Human Diseases_Infectious diseases_Epstein-Barr virus infection [PATH:ko05169]
Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
Genetic Information Processing_Translation_Proteasome [BR:ko03051]
Genetic Information Processing_Translation_Proteasome [PATH:ko03050]
Human Diseases_Infectious diseases_Epstein-Barr virus infection [PATH:ko05169]
Genetic Information Processing_Translation_Proteasome [BR:ko03051]
Genetic Information Processing_Translation_Proteasome [PATH:ko03050]
Human Diseases_Infectious diseases_Epstein-Barr virus infection [PATH:ko05169]
Genetic Information Processing_Translation_Proteasome [BR:ko03051]
Genetic Information Processing_Translation_Proteasome [PATH:ko03050]
Human Diseases_Infectious diseases_Epstein-Barr virus infection [PATH:ko05169]
Genetic Information Processing_Translation_Proteasome [BR:ko03051]
Genetic Information Processing_Translation_Proteasome [PATH:ko03050]
Human Diseases_Infectious diseases_Epstein-Barr virus infection [PATH:ko05169]
Genetic Information Processing_Translation_Proteasome [BR:ko03051]
Genetic Information Processing_Translation_Proteasome [PATH:ko03050]
Human Diseases_Infectious diseases_Epstein-Barr virus infection [PATH:ko05169]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0:
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Genetic Information Processing_Translation_Protein export [PATH:ko03060]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0:
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Genetic Information Processing_Translation_Protein export [PATH:ko03060]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0:
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Genetic Information Processing_Translation_Protein export [PATH:ko03060]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0:
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Genetic Information Processing_Translation_Protein export [PATH:ko03060]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]

Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0:
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Genetic Information Processing_Translation_Protein export [PATH:ko03060]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0:
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Genetic Information Processing_Translation_Protein export [PATH:ko03060]
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko
Genetic Information Processing_Transcription_Transcription machinery [BR:ko03021]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko0202
Genetic Information Processing_Transcription_Transcription machinery [BR:ko03021]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Genetic Information Processing_Translation_Protein export [PATH:ko03060]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Genetic Information Processing_Translation_Protein export [PATH:ko03060]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0:
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Genetic Information Processing_Translation_Protein export [PATH:ko03060]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0:
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Genetic Information Processing_Translation_Protein export [PATH:ko03060]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Genetic Information Processing_Translation_RNA transport [PATH:ko03013]
Genetic Information Processing_Translation_Translation factors [BR:ko03012]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0:
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Genetic Information Processing_Translation_Protein export [PATH:ko03060]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0:
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Genetic Information Processing_Translation_Protein export [PATH:ko03060]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0:
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Genetic Information Processing_Translation_Protein export [PATH:ko03060]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Metabolism of other amino acids_Taurine and hypotaurine metabolism [PATH:ko00430]
Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:k
Genetic Information Processing_Transcription_Basal transcription factors [PATH:ko03022]

Genetic Information Processing_Transcription_Transcription machinery [BR:ko03021]
Human Diseases_Infectious diseases_Herpes simplex infection [PATH:ko05168]
Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]
Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]
Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]
Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]
Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]
Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]
Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00730]
Metabolism_Metabolism of terpenoids and polyketides_Prenyltransferases [BR:ko01006]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00730]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00730]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00730]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00730]
Metabolism_Biosynthesis of other secondary metabolites_Phenylpropanoid biosynthesis [PATH:ko00730]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00730]
Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko00600]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko00600]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko00600]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Human Diseases_Infectious diseases_Epithelial cell signaling in Helicobacter pylori infection [PATH:ko00600]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko00600]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko00600]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
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Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko00600]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko00600]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Genetic Information Processing_Translation_Protein export [PATH:ko03060]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko00600]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Genetic Information Processing_Translation_Protein export [PATH:ko03060]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko00600]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko00600]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]

Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0000000]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Genetic Information Processing_Translation_RNA transport [PATH:ko03013]
Genetic Information Processing_Translation_Translation factors [BR:ko03012]
Genetic Information Processing_Translation_RNA transport [PATH:ko03013]
Genetic Information Processing_Translation_Translation factors [BR:ko03012]
Genetic Information Processing_Translation_RNA transport [PATH:ko03013]
Genetic Information Processing_Translation_Translation factors [BR:ko03012]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00540]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00540]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00540]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00540]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00540]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00540]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00540]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00540]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00540]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00540]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00540]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00540]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00540]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00540]
Cellular Processes_Transport and catabolism_Endocytosis [PATH:ko04144]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Signal transduction_MAPK signaling pathway [PATH:ko04010]
Environmental Information Processing_Signaling molecules and interaction_Cell adhesion molecule
Genetic Information Processing_Transcription_Spliceosome [BR:ko03041]
Genetic Information Processing_Transcription_Spliceosome [PATH:ko03040]
Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Genetic Information Processing_Translation_Proteasome [BR:ko03051]
Genetic Information Processing_Translation_Protein processing in endoplasmic reticulum [PATH:ko0000000]
Genetic Information Processing_Translation_Ribosome biogenesis [BR:ko03009]
Human Diseases_Infectious diseases_Epstein-Barr virus infection [PATH:ko05169]
Human Diseases_Infectious diseases_Influenza A [PATH:ko05164]
Human Diseases_Infectious diseases_Legionellosis [PATH:ko05134]
Human Diseases_Infectious diseases_Measles [PATH:ko05162]
Human Diseases_Infectious diseases_Toxoplasmosis [PATH:ko05145]
Metabolism_Enzyme families_Protein phosphatase and associated proteins [BR:ko01009]
Organismal_Aging_Longevity regulating pathway - multiple species [PATH:ko04213]
Organismal_Endocrine system_Estrogen signaling pathway [PATH:ko04915]
Organismal_Immune system_Antigen processing and presentation [PATH:ko04612]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Xenobiotics biodegradation and metabolism_Steroid degradation [PATH:ko00984]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]

Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00360]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Biosynthesis of other secondary metabolites_Isoquinoline alkaloid biosynthesis [PATH:ko00360]
Metabolism_Carbohydrate metabolism_Inositol phosphate metabolism [PATH:ko00562]
Metabolism_Carbohydrate metabolism_Inositol phosphate metabolism [PATH:ko00562]
Metabolism_Carbohydrate metabolism_Inositol phosphate metabolism [PATH:ko00562]
Metabolism_Carbohydrate metabolism_Inositol phosphate metabolism [PATH:ko00562]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Cellular Processes_Cell growth and death_Cell cycle - yeast [PATH:ko04111]
Cellular Processes_Cell growth and death_Cell cycle [PATH:ko04110]
Cellular Processes_Cell growth and death_Meiosis - yeast [PATH:ko04113]
Cellular Processes_Cell growth and death_Oocyte meiosis [PATH:ko04114]
Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko04121]
Genetic Information Processing_Translation_Ubiquitin mediated proteolysis [PATH:ko04120]
Genetic Information Processing_Translation_Ubiquitin system [BR:ko04121]
Human Diseases_Infectious diseases_HTLV-I infection [PATH:ko05166]
Metabolism_Enzyme families_Protein phosphatase and associated proteins [BR:ko01009]
Organismal_Endocrine system_Progesterone-mediated oocyte maturation [PATH:ko04914]
Cellular Processes_Cell growth and death_Cell cycle - yeast [PATH:ko04111]
Cellular Processes_Cell growth and death_Cell cycle [PATH:ko04110]
Cellular Processes_Cell growth and death_Meiosis - yeast [PATH:ko04113]
Cellular Processes_Cell growth and death_Oocyte meiosis [PATH:ko04114]
Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko04121]
Genetic Information Processing_Translation_Ubiquitin mediated proteolysis [PATH:ko04120]
Genetic Information Processing_Translation_Ubiquitin system [BR:ko04121]
Human Diseases_Infectious diseases_HTLV-I infection [PATH:ko05166]
Organismal_Endocrine system_Progesterone-mediated oocyte maturation [PATH:ko04914]
Cellular Processes_Cell growth and death_Cellular senescence [PATH:ko04218]
Cellular Processes_Cell growth and death_Oocyte meiosis [PATH:ko04114]
Environmental Information Processing_Signal transduction_Hedgehog signaling pathway - fly [PATH:ko04310]
Environmental Information Processing_Signal transduction_Hedgehog signaling pathway [PATH:ko04310]
Environmental Information Processing_Signal transduction_Hippo signaling pathway [PATH:ko04310]
Environmental Information Processing_Signal transduction_Wnt signaling pathway [PATH:ko04310]
Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko04121]
Genetic Information Processing_Translation_Ubiquitin mediated proteolysis [PATH:ko04120]
Genetic Information Processing_Translation_Ubiquitin system [BR:ko04121]
Human Diseases_Infectious diseases_Shigellosis [PATH:ko05131]
Organismal_Environmental adaptation_Circadian rhythm [PATH:ko04710]
Organismal_Immune system_Toll and Imd signaling pathway [PATH:ko04624]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Chlorocyclohexane and chlorobenzene degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Fluorobenzoate degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Toluene degradation [PATH:ko00623]
Cellular Processes_Cell growth and death_Apoptosis - fly [PATH:ko04214]

Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
 Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
 Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko000680]
 Metabolism_Energy metabolism_Methane metabolism [PATH:ko000680]
 Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko000680]
 Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko000680]
 Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko000680]
 Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
 Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
 Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
 Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
 Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
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 Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
 Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
 Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
 Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
 Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
 Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
 Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
 Genetic Information Processing_Translation_Proteasome [BR:ko03051]
 Genetic Information Processing_Translation_Proteasome [PATH:ko03050]
 Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko02044]
 Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
 Genetic Information Processing_Translation_Protein export [PATH:ko03060]
 Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
 Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko000680]
 Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
 Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
 Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
 Metabolism_Metabolism of other amino acids_Phosphonate and phosphinate metabolism [PATH:ko000680]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko000680]

Genetic Information Processing_Translation_Proteasome [BR:ko03051]
 Genetic Information Processing_Translation_Proteasome [PATH:ko03050]
 Metabolism_Enzyme families_Peptidases [BR:ko01002]
 Genetic Information Processing_Translation_Proteasome [BR:ko03051]
 Genetic Information Processing_Translation_Proteasome [PATH:ko03050]
 Metabolism_Enzyme families_Peptidases [BR:ko01002]
 Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00075]
 Organismal_Immune system_NOD-like receptor signaling pathway [PATH:ko04621]
 Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
 Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
 Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
 Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
 Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
 Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
 Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
 Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
 Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
 Metabolism_Metabolism of cofactors and vitamins_Vitamin B6 metabolism [PATH:ko00750]
 Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PATH:ko00053]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
 Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03032]
 Genetic Information Processing_Replication and repair_Fanconi anemia pathway [PATH:ko03460]
 Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00075]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
 Metabolism_Metabolism of cofactors and vitamins_Biotin metabolism [PATH:ko00780]
 Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00030]
 Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00053]
 Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00053]
 Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
 Cellular Processes_Cell motility_Cytoskeleton proteins [BR:ko04812]
 Cellular Processes_Transport and catabolism_Prokaryotic Defense System [BR:ko02048]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko03032]
 Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
 Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03032]
 Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03032]
 Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03032]
 Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03032]
 Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko00030]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko03032]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03032]

Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko03000]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa [PATH:ko03000]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko03000]

Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]

Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko03000]

Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko03000]

Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]

Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03000]

Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]

Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]

Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03000]

Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03000]

Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]

Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03000]

Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]

Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03000]

Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]

Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03000]

Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko03000]

Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]

Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]

Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]

Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko03000]

Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]

Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]

Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteins [PATH:ko00550]

Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko03000]

Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]

Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko03000]

Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]

Cellular Processes_Cell motility_Cytoskeleton proteins [BR:ko04812]

Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko03000]

Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00550]

Human Diseases_Infectious diseases_Legionellosis [PATH:ko05134]

Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03000]

Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]

Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03000]

Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko03000]

Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]

Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]

Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]

Genetic Information Processing_Transcription_Transcription machinery [BR:ko03021]
 Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
 Genetic Information Processing_Translation_RNA degradation [PATH:ko03018]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
 Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
 Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
 Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
 Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
 Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
 Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
 Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
 Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
 Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
 Metabolism_Metabolism of cofactors and vitamins_Lipoic acid metabolism [PATH:ko00785]
 Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
 Human Diseases_Immune diseases_Primary immunodeficiency [PATH:ko05340]
 Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
 Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
 Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
 Genetic Information Processing_Translation_RNA degradation [PATH:ko03018]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
 Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
 Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
 Genetic Information Processing_Replication and repair_Nucleotide excision repair [PATH:ko03420]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko
 Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:k
 Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
 Genetic Information Processing_Translation_RNA degradation [PATH:ko03018]
 Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
 Human Diseases_Cardiovascular diseases_Fluid shear stress and atherosclerosis [PATH:ko05418]
 Organismal_Immune system_NOD-like receptor signaling pathway [PATH:ko04621]
 Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
 Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko0150:
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:k
 Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
 Genetic Information Processing_Translation_Ribosome biogenesis [BR:ko03009]
 Genetic Information Processing_Translation_Ribosome biogenesis in eukaryotes [PATH:ko03008]
 Human Diseases_Cancers_Proteoglycans in cancer [PATH:ko05205]
 Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
 Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
 Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
 Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation prot

Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Organismal_Aging_Longevity regulating pathway - multiple species [PATH:ko04213]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_Nucleotide excision repair [PATH:ko03420]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_Nucleotide excision repair [PATH:ko03420]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_Nucleotide excision repair [PATH:ko03420]
Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_Nucleotide excision repair [PATH:ko03420]
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
Genetic Information Processing_Translation_RNA degradation [PATH:ko03018]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]
Human Diseases_Infectious diseases_Staphylococcus aureus infection [PATH:ko05150]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00790]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00790]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00630]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Cellular Processes_Cell growth and death_Necroptosis [PATH:ko04217]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]
Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]

Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Environmental Information Processing_Signal transduction_FoxO signaling pathway [PATH:ko04061]
Environmental Information Processing_Signal transduction_MAPK signaling pathway - plant [PATH:ko04061]
Environmental Information Processing_Signal transduction_MAPK signaling pathway - yeast [PATH:ko04061]
Human Diseases_Neurodegenerative diseases_Amyotrophic lateral sclerosis (ALS) [PATH:ko05014]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Organismal_Aging_Longevity regulating pathway - mammal [PATH:ko04211]
Organismal_Aging_Longevity regulating pathway - multiple species [PATH:ko04213]
Organismal_Aging_Longevity regulating pathway - worm [PATH:ko04212]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Biosynthesis of other secondary metabolites_Phenylpropanoid biosynthesis [PATH:ko00059]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - other enzymes [PATH:ko00001]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00031]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00031]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00031]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00031]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00031]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00031]
Metabolism_Metabolism of cofactors and vitamins_Lipoic acid metabolism [PATH:ko00785]
Metabolism_Metabolism of cofactors and vitamins_Lipoic acid metabolism [PATH:ko00785]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00031]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteoglycan [PATH:ko00550]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Metabolism of other amino acids_Phosphonate and phosphinate metabolism [PATH:ko00031]
Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Signal transduction_AMPK signaling pathway [PATH:ko04151]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Organismal_Endocrine system_Insulin signaling pathway [PATH:ko04910]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_N-Glycan biosynthesis [PATH:ko00510]
Metabolism_Glycan biosynthesis and metabolism_Various types of N-glycan biosynthesis [PATH:ko00510]
Cellular Processes_Cell growth and death_Apoptosis [PATH:ko04210]

Cellular Processes_Cell growth and death_Cellular senescence [PATH:ko04218]
Cellular Processes_Cell growth and death_Necroptosis [PATH:ko04217]
Cellular Processes_Cellular community - eukaryotes_Focal adhesion [PATH:ko04510]
Genetic Information Processing_Translation_Protein processing in endoplasmic reticulum [PATH:ko04510]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko04510]
Metabolism_Glycan biosynthesis and metabolism_Glycosylphosphatidylinositol(GPI)-anchor biosynthesis [PATH:ko04510]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko006]
Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko006]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Organismal_Nervous system_Retrograde endocannabinoid signaling [PATH:ko04723]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Lipid metabolism_Biosynthesis of unsaturated fatty acids [PATH:ko01040]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Human Diseases_Endocrine and metabolic diseases_Non-alcoholic fatty liver disease (NAFLD) [PATH:ko04510]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Organismal_Nervous system_Retrograde endocannabinoid signaling [PATH:ko04723]
Human Diseases_Endocrine and metabolic diseases_Non-alcoholic fatty liver disease (NAFLD) [PATH:ko04510]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Organismal_Nervous system_Retrograde endocannabinoid signaling [PATH:ko04723]
Human Diseases_Endocrine and metabolic diseases_Non-alcoholic fatty liver disease (NAFLD) [PATH:ko04510]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Organismal_Nervous system_Retrograde endocannabinoid signaling [PATH:ko04723]
Human Diseases_Endocrine and metabolic diseases_Non-alcoholic fatty liver disease (NAFLD) [PATH:ko04510]

Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Organismal_Nervous system_Retrograde endocannabinoid signaling [PATH:ko04723]
Human Diseases_Endocrine and metabolic diseases_Non-alcoholic fatty liver disease (NAFLD) [PAT
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Organismal_Nervous system_Retrograde endocannabinoid signaling [PATH:ko04723]
Human Diseases_Endocrine and metabolic diseases_Non-alcoholic fatty liver disease (NAFLD) [PAT
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Organismal_Nervous system_Retrograde endocannabinoid signaling [PATH:ko04723]
Human Diseases_Endocrine and metabolic diseases_Non-alcoholic fatty liver disease (NAFLD) [PAT
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]
Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Organismal_Nervous system_Retrograde endocannabinoid signaling [PATH:ko04723]
Cellular Processes_Cell growth and death_Cellular senescence [PATH:ko04218]
Cellular Processes_Cell growth and death_p53 signaling pathway [PATH:ko04115]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Signal transduction_Apelin signaling pathway [PATH:ko043;
Environmental Information Processing_Signal transduction_HIF-1 signaling pathway [PATH:ko0406
Environmental Information Processing_Signal transduction_Hippo signaling pathway [PATH:ko0439
Human Diseases_Endocrine and metabolic diseases_AGE-RAGE signaling pathway in diabetic comp
Human Diseases_Infectious diseases_Chagas disease (American trypanosomiasis) [PATH:ko05142]
Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan binding proteins [BR:ko0053
Organismal_Immune system_Complement and coagulation cascades [PATH:ko04610]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00!
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]

Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Genetic Information Processing_Translation_RNA degradation [PATH:ko03018]
Human Diseases_Infectious diseases_Tuberculosis [PATH:ko05152]
Organismal_Aging_Longevity regulating pathway - worm [PATH:ko04212]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Xenobiotics biodegradation and metabolism_Chloroalkane and chloroalkene degradati
Metabolism_Xenobiotics biodegradation and metabolism_Naphthalene degradation [PATH:ko00626]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Dioxin degradation [PATH:ko00621]
Metabolism_Xenobiotics biodegradation and metabolism_Xylene degradation [PATH:ko00622]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Genetic Information Processing_Translation_RNA degradation [PATH:ko03018]
Human Diseases_Endocrine and metabolic diseases_Type I diabetes mellitus [PATH:ko04940]
Human Diseases_Infectious diseases_Legionellosis [PATH:ko05134]
Human Diseases_Infectious diseases_Tuberculosis [PATH:ko05152]
Organismal_Aging_Longevity regulating pathway - worm [PATH:ko04212]
Cellular Processes_Cell growth and death_Necroptosis [PATH:ko04217]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Signal transduction_PIK3-Akt signaling pathway [PATH:ko04
Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Genetic Information Processing_Translation_Proteasome [BR:ko03051]
Genetic Information Processing_Translation_Protein processing in endoplasmic reticulum [PATH:ko
Human Diseases_Cancers_Pathways in cancer [PATH:ko05200]
Human Diseases_Cancers_Prostate cancer [PATH:ko05215]
Human Diseases_Cardiovascular diseases_Fluid shear stress and atherosclerosis [PATH:ko05418]
Metabolism_Enzyme families_Protein phosphatase and associated proteins [BR:ko01009]
Organismal_Endocrine system_Estrogen signaling pathway [PATH:ko04915]
Organismal_Endocrine system_Progesterone-mediated oocyte maturation [PATH:ko04914]
Organismal_Environmental adaptation_Plant-pathogen interaction [PATH:ko04626]
Organismal_Immune system_Antigen processing and presentation [PATH:ko04612]
Organismal_Immune system_IL-17 signaling pathway [PATH:ko04657]
Organismal_Immune system_NOD-like receptor signaling pathway [PATH:ko04621]
Organismal_Immune system_Th17 cell differentiation [PATH:ko04659]
Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]

Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00904]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00904]
Metabolism_Metabolism of terpenoids and polyketides_Diterpenoid biosynthesis [PATH:ko00904]
Cellular Processes_Cell growth and death_Oocyte meiosis [PATH:ko04114]
Environmental Information Processing_Signal transduction_MAPK signaling pathway [PATH:ko04015]
Environmental Information Processing_Signal transduction_mTOR signaling pathway [PATH:ko04151]
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
Human Diseases_Endocrine and metabolic diseases_Insulin resistance [PATH:ko04931]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Organismal_Endocrine system_Progesterone-mediated oocyte maturation [PATH:ko04914]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Organismal_Nervous system_Long-term potentiation [PATH:ko04720]
Organismal_Nervous system_Neurotrophin signaling pathway [PATH:ko04722]
Cellular Processes_Cell growth and death_Apoptosis - fly [PATH:ko04214]
Environmental Information Processing_Signal transduction_Hippo signaling pathway - multiple species [PATH:ko04399]
Environmental Information Processing_Signal transduction_Hippo signaling pathway [PATH:ko04399]
Environmental Information Processing_Signal transduction_MAPK signaling pathway [PATH:ko04015]
Environmental Information Processing_Signal transduction_NA [PATH:ko04015]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Cellular Processes_Cell growth and death_Apoptosis - fly [PATH:ko04214]
Cellular Processes_Cellular community - eukaryotes_Adherens junction [PATH:ko04520]
Cellular Processes_Transport and catabolism_Autophagy - animal [PATH:ko04140]
Environmental Information Processing_Signal transduction_AMPK signaling pathway [PATH:ko04151]
Environmental Information Processing_Signal transduction_MAPK signaling pathway - fly [PATH:ko04015]
Environmental Information Processing_Signal transduction_MAPK signaling pathway [PATH:ko04015]
Environmental Information Processing_Signal transduction_NF-kappa B signaling pathway [PATH:ko04668]
Environmental Information Processing_Signal transduction_TNF signaling pathway [PATH:ko04668]
Environmental Information Processing_Signal transduction_Wnt signaling pathway [PATH:ko04310]
Human Diseases_Cardiovascular diseases_Fluid shear stress and atherosclerosis [PATH:ko05418]
Human Diseases_Infectious diseases_Epstein-Barr virus infection [PATH:ko05169]
Human Diseases_Infectious diseases_Herpes simplex infection [PATH:ko05168]
Human Diseases_Infectious diseases_Leishmaniasis [PATH:ko05140]
Human Diseases_Infectious diseases_Measles [PATH:ko05162]
Human Diseases_Infectious diseases_Toxoplasmosis [PATH:ko05145]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Organismal_Development_Osteoclast differentiation [PATH:ko04380]
Organismal_Immune system_IL-17 signaling pathway [PATH:ko04657]
Organismal_Immune system_NOD-like receptor signaling pathway [PATH:ko04621]
Organismal_Immune system_RIG-I-like receptor signaling pathway [PATH:ko04622]
Organismal_Immune system_T cell receptor signaling pathway [PATH:ko04660]
Organismal_Immune system_Toll and Imd signaling pathway [PATH:ko04624]
Organismal_Immune system_Toll-like receptor signaling pathway [PATH:ko04620]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Cellular Processes_Transport and catabolism_Prokaryotic Defense System [BR:ko02048]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]

Cellular Processes_Cell growth and death_Necroptosis [PATH:ko04217]
 Cellular Processes_Cell growth and death_Oocyte meiosis [PATH:ko04114]
 Environmental Information Processing_Signal transduction_Calcium signaling pathway [PATH:ko0402]
 Environmental Information Processing_Signal transduction_cAMP signaling pathway [PATH:ko0402]
 Environmental Information Processing_Signal transduction_ErbB signaling pathway [PATH:ko04012]
 Environmental Information Processing_Signal transduction_HIF-1 signaling pathway [PATH:ko0406]
 Environmental Information Processing_Signal transduction_Wnt signaling pathway [PATH:ko04310]
 Human Diseases_Cancers_Glioma [PATH:ko05214]
 Human Diseases_Cancers_Pathways in cancer [PATH:ko05200]
 Human Diseases_Cancers_Proteoglycans in cancer [PATH:ko05205]
 Human Diseases_Endocrine and metabolic diseases_Cushing's syndrome [PATH:ko04934]
 Human Diseases_Infectious diseases_Tuberculosis [PATH:ko05152]
 Human Diseases_Substance dependence_Amphetamine addiction [PATH:ko05031]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Organismal_Circulatory system_Adrenergic signaling in cardiomyocytes [PATH:ko04261]
 Organismal_Development_Axon guidance [PATH:ko04360]
 Organismal_Digestive system_Gastric acid secretion [PATH:ko04971]
 Organismal_Endocrine system_Aldosterone synthesis and secretion [PATH:ko04925]
 Organismal_Endocrine system_Glucagon signaling pathway [PATH:ko04922]
 Organismal_Endocrine system_GnRH signaling pathway [PATH:ko04912]
 Organismal_Endocrine system_Insulin secretion [PATH:ko04911]
 Organismal_Endocrine system_Melanogenesis [PATH:ko04916]
 Organismal_Endocrine system_Oxytocin signaling pathway [PATH:ko04921]
 Organismal_Environmental adaptation_Circadian entrainment [PATH:ko04713]
 Organismal_Nervous system_Cholinergic synapse [PATH:ko04725]
 Organismal_Nervous system_Dopaminergic synapse [PATH:ko04728]
 Organismal_Nervous system_Long-term potentiation [PATH:ko04720]
 Organismal_Nervous system_Neurotrophin signaling pathway [PATH:ko04722]
 Organismal_Sensory system_Inflammatory mediator regulation of TRP channels [PATH:ko04750]
 Organismal_Sensory system_Olfactory transduction [PATH:ko04740]
 Organismal_Sensory system_Phototransduction - fly [PATH:ko04745]
 Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00401]
 Metabolism_Biosynthesis of other secondary metabolites_Novobiocin biosynthesis [PATH:ko00401]
 Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00401]
 Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
 Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
 Environmental Information Processing_Signal transduction_FoxO signaling pathway [PATH:ko0406]
 Environmental Information Processing_Signal transduction_MAPK signaling pathway - fly [PATH:ko0406]
 Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
 Organismal_Aging_Longevity regulating pathway - mammal [PATH:ko04211]
 Organismal_Aging_Longevity regulating pathway - multiple species [PATH:ko04213]
 Organismal_Aging_Longevity regulating pathway - worm [PATH:ko04212]
 Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
 Human Diseases_Neurodegenerative diseases_Amyotrophic lateral sclerosis (ALS) [PATH:ko05014]
 Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
 Human Diseases_Neurodegenerative diseases_Prion diseases [PATH:ko05020]
 Organismal_Aging_Longevity regulating pathway - multiple species [PATH:ko04213]
 Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
 Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]

Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Cellular Processes_Cellular community - eukaryotes_Focal adhesion [PATH:ko04510]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Cellular Processes_Transport and catabolism_Phagosome [PATH:ko04145]
Environmental Information Processing_Signal transduction_Pi3K-Akt signaling pathway [PATH:ko04370]
Environmental Information Processing_Signaling molecules and interaction_Cell adhesion molecule
Environmental Information Processing_Signaling molecules and interaction_ECM-receptor interaction
Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
Human Diseases_Infectious diseases_Malaria [PATH:ko05144]
Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan binding proteins [BR:ko00531]
Cellular Processes_Transport and catabolism_Autophagy - animal [PATH:ko04140]
Environmental Information Processing_Signal transduction_AMPK signaling pathway [PATH:ko04151]
Environmental Information Processing_Signal transduction_Apelin signaling pathway [PATH:ko04370]
Environmental Information Processing_Signal transduction_ErbB signaling pathway [PATH:ko04012]
Environmental Information Processing_Signal transduction_HIF-1 signaling pathway [PATH:ko04061]
Environmental Information Processing_Signal transduction_mTOR signaling pathway [PATH:ko04151]
Environmental Information Processing_Signal transduction_Pi3K-Akt signaling pathway [PATH:ko04370]
Environmental Information Processing_Signal transduction_TGF-beta signaling pathway [PATH:ko04370]
Human Diseases_Cancers_Acute myeloid leukemia [PATH:ko05221]
Human Diseases_Cancers_Breast cancer [PATH:ko05224]
Human Diseases_Cancers_Choline metabolism in cancer [PATH:ko05231]
Human Diseases_Cancers_Colorectal cancer [PATH:ko05210]
Human Diseases_Cancers_Gastric cancer [PATH:ko05226]
Human Diseases_Cancers_Hepatocellular carcinoma [PATH:ko05225]
Human Diseases_Cancers_Pancreatic cancer [PATH:ko05212]
Human Diseases_Cancers_Pathways in cancer [PATH:ko05200]
Human Diseases_Cancers_Proteoglycans in cancer [PATH:ko05205]
Human Diseases_Drug resistance_EGFR tyrosine kinase inhibitor resistance [PATH:ko01521]
Human Diseases_Drug resistance_Endocrine resistance [PATH:ko01522]
Human Diseases_Endocrine and metabolic diseases_Insulin resistance [PATH:ko04931]
Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Organismal_Aging_Longevity regulating pathway - mammal [PATH:ko04211]
Organismal_Aging_Longevity regulating pathway - multiple species [PATH:ko04213]
Organismal_Aging_Longevity regulating pathway - worm [PATH:ko04212]
Organismal_Endocrine system_Insulin signaling pathway [PATH:ko04910]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Organismal_Immune system_Fc gamma R-mediated phagocytosis [PATH:ko04666]
Metabolism_Lipid metabolism_Sphingolipid metabolism [PATH:ko00600]
Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00740]
Cellular Processes_Cell growth and death_Apoptosis - fly [PATH:ko04214]
Cellular Processes_Cell growth and death_Apoptosis [PATH:ko04210]
Cellular Processes_Cell growth and death_Necroptosis [PATH:ko04217]
Organismal_Endocrine system_Insulin signaling pathway [PATH:ko04910]

Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko05000]
 Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
 Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00010]
 Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00030]
 Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
 Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
 Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
 Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01500]
 Metabolism_Enzyme families_Peptidases [BR:ko01002]
 Metabolism_Metabolism of terpenoids and polyketides_Biosynthesis of siderophore group nonribosomal peptides [PATH:ko00060]
 Metabolism_Metabolism of terpenoids and polyketides_Polyketide biosynthesis proteins [BR:ko01000]
 Metabolism_Metabolism of terpenoids and polyketides_Biosynthesis of siderophore group nonribosomal peptides [PATH:ko00060]
 Metabolism_Metabolism of terpenoids and polyketides_Polyketide biosynthesis proteins [BR:ko01000]
 Metabolism_Metabolism of terpenoids and polyketides_Biosynthesis of siderophore group nonribosomal peptides [PATH:ko00060]
 Metabolism_Metabolism of terpenoids and polyketides_Polyketide biosynthesis proteins [BR:ko01000]
 Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
 Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03000]
 Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
 Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
 Genetic Information Processing_Replication and repair_Non-homologous end-joining [PATH:ko03450]
 Metabolism_Carbohydrate metabolism_C5-Branched dibasic acid metabolism [PATH:ko00660]
 Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
 Metabolism_Metabolism of cofactors and vitamins_Vitamin B6 metabolism [PATH:ko00750]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00050]
 Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
 Metabolism_Biosynthesis of other secondary metabolites_Phenylpropanoid biosynthesis [PATH:ko00030]
 Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
 Metabolism_Metabolism of other amino acids_Cyanoamino acid metabolism [PATH:ko00460]
 Metabolism_Biosynthesis of other secondary metabolites_Phenylpropanoid biosynthesis [PATH:ko00030]
 Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
 Metabolism_Metabolism of other amino acids_Cyanoamino acid metabolism [PATH:ko00460]
 Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
 Metabolism_Metabolism of terpenoids and polyketides_Prenyltransferases [BR:ko01006]
 Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00050]
 Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00020]
 Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
 Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteins [PATH:ko00550]
 Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
 Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteins [PATH:ko00550]
 Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
 Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
 Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteins [PATH:ko00550]
 Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
 Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
 Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
 Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteins [PATH:ko00550]

Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation prot
Metabolism_Biosynthesis of other secondary metabolites_Monobactam biosynthesis [PATH:ko0026
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation prot
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Genetic Information Processing_Translation_Protein processing in endoplasmic reticulum [PATH:ko
Metabolism_Glycan biosynthesis and metabolism_N-Glycan biosynthesis [PATH:ko00510]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Fluorobenzoate degradation [PATH:ko003
Metabolism_Xenobiotics biodegradation and metabolism_Xylene degradation [PATH:ko00622]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Fluorobenzoate degradation [PATH:ko003
Metabolism_Xenobiotics biodegradation and metabolism_Xylene degradation [PATH:ko00622]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
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Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
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Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
Genetic Information Processing_Translation_Ribosome biogenesis [BR:ko03009]
Genetic Information Processing_Translation_RNA degradation [PATH:ko03018]
Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko006
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]

Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Organismal_Digestive system_Protein digestion and absorption [PATH:ko04974]
Organismal_Nervous system_Glutamatergic synapse [PATH:ko04724]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Organismal_Nervous system_Glutamatergic synapse [PATH:ko04724]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Signaling molecules and interaction_CD Molecules [BR:ko04147]
Human Diseases_Cancers_Gastric cancer [PATH:ko05226]
Human Diseases_Cancers_MicroRNAs in cancer [PATH:ko05206]
Organismal_Digestive system_Bile secretion [PATH:ko04976]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Organismal_Digestive system_Bile secretion [PATH:ko04976]
Organismal_Digestive system_Cholesterol metabolism [PATH:ko04979]
Organismal_Digestive system_Fat digestion and absorption [PATH:ko04975]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Cellular Processes_Cell motility_Regulation of actin cytoskeleton [PATH:ko04810]
Cellular Processes_Cellular community - eukaryotes_Focal adhesion [PATH:ko04510]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Signal transduction_P13K-Akt signaling pathway [PATH:ko04147]
Environmental Information Processing_Signaling molecules and interaction_Cell adhesion molecule
Environmental Information Processing_Signaling molecules and interaction_ECM-receptor interaction
Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
Human Diseases_Cancers_Pathways in cancer [PATH:ko05200]
Human Diseases_Cancers_Proteoglycans in cancer [PATH:ko05205]

Human Diseases_Cancers_Small cell lung cancer [PATH:ko05222]
Human Diseases_Endocrine and metabolic diseases_AGE-RAGE signaling pathway in diabetic comp
Human Diseases_Infectious diseases_Amoebiasis [PATH:ko05146]
Human Diseases_Infectious diseases_Bacterial invasion of epithelial cells [PATH:ko05100]
Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan binding proteins [BR:ko0053]
Cellular Processes_Cell growth and death_Apoptosis - fly [PATH:ko04214]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Signaling molecules and interaction_Neuroactive ligand-rec
Human Diseases_Infectious diseases_HTLV-I infection [PATH:ko05166]
Organismal_Digestive system_Cholesterol metabolism [PATH:ko04979]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Metabolism of other amino acids_Phosphonate and phosphinate metabolism [PATH:ko
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Fluorobenzoate degradation [PATH:ko003
Metabolism_Xenobiotics biodegradation and metabolism_Xylene degradation [PATH:ko00622]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Xenobiotics biodegradation and metabolism_Fluorobenzoate degradation [PATH:ko003
Metabolism_Xenobiotics biodegradation and metabolism_Xylene degradation [PATH:ko00622]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Lipid metabolism_alpha-Linolenic acid metabolism [PATH:ko00592]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00984]
Metabolism_Xenobiotics biodegradation and metabolism_Steroid degradation [PATH:ko00984]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00984]
Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
Metabolism_Xenobiotics biodegradation and metabolism_Bisphenol degradation [PATH:ko00363]
Human Diseases_Infectious diseases_Salmonella infection [PATH:ko05132]
Metabolism_Enzyme families_Cytochrome P450 [BR:ko00199]
Metabolism_Lipid metabolism_Steroid biosynthesis [PATH:ko00100]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00564]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00984]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00984]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko04147]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00480]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00540]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00540]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko04147]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00984]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Metabolism of terpenoids and polyketides_Sesquiterpenoid and triterpenoid biosynthesis [PATH:ko00540]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Cellular Processes_Cell growth and death_Cell cycle [PATH:ko04110]

Environmental Information Processing_Signal transduction_Notch signaling pathway [PATH:ko0433]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:k
 Human Diseases_Cancers_Chronic myeloid leukemia [PATH:ko05220]
 Human Diseases_Cancers_Pathways in cancer [PATH:ko05200]
 Human Diseases_Cancers_Transcriptional misregulation in cancers [PATH:ko05202]
 Human Diseases_Cancers_Viral carcinogenesis [PATH:ko05203]
 Human Diseases_Infectious diseases_Epstein-Barr virus infection [PATH:ko05169]
 Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
 Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
 Human Diseases_Substance dependence_Alcoholism [PATH:ko05034]
 Organismal_Aging_Longevity regulating pathway - multiple species [PATH:ko04213]
 Organismal_Endocrine system_Thyroid hormone signaling pathway [PATH:ko04919]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:k
 Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00!
 Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
 Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
 Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
 Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosyn
 Metabolism_Metabolism of terpenoids and polyketides_Prenyltransferases [BR:ko01006]
 Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosyn
 Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
 Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
 Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00
 Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosyn
 Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
 Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
 Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
 Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation prot
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Metabolism_Metabolism of other amino acids_Phosphonate and phosphinate metabolism [PATH:ko
 Metabolism_Metabolism of other amino acids_Phosphonate and phosphinate metabolism [PATH:ko
 Metabolism_Metabolism of other amino acids_Phosphonate and phosphinate metabolism [PATH:ko
 Metabolism_Metabolism of other amino acids_Phosphonate and phosphinate metabolism [PATH:ko
 Metabolism_Metabolism of other amino acids_Phosphonate and phosphinate metabolism [PATH:ko
 Metabolism_Metabolism of other amino acids_Phosphonate and phosphinate metabolism [PATH:ko
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
 Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko
 Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
 Genetic Information Processing_Transcription_Transcription machinery [BR:ko03021]
 Genetic Information Processing_Translation_Ribosome biogenesis [BR:ko03009]
 Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko
 Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko
 Metabolism_Metabolism of cofactors and vitamins_Vitamin B6 metabolism [PATH:ko00750]
 Cellular Processes_Transport and catabolism_Prokaryotic Defense System [BR:ko02048]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
 Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]

Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
 Environmental Information Processing_Signal transduction_Hedgehog signaling pathway - fly [PATH:ko04510]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Environmental Information Processing_Signal transduction_Hedgehog signaling pathway - fly [PATH:ko04510]
 Environmental Information Processing_Signal transduction_Hedgehog signaling pathway [PATH:ko04510]
 Human Diseases_Cancers_Basal cell carcinoma [PATH:ko05217]
 Human Diseases_Cancers_Pathways in cancer [PATH:ko05200]
 Environmental Information Processing_Signal transduction_cAMP signaling pathway [PATH:ko04020]
 Environmental Information Processing_Signal transduction_Hedgehog signaling pathway [PATH:ko04510]
 Human Diseases_Cancers_Basal cell carcinoma [PATH:ko05217]
 Human Diseases_Cancers_Pathways in cancer [PATH:ko05200]
 Cellular Processes_Cellular community - eukaryotes_Focal adhesion [PATH:ko04510]
 Environmental Information Processing_Signal transduction_PIK3K-Akt signaling pathway [PATH:ko04510]
 Environmental Information Processing_Signaling molecules and interaction_Cell adhesion molecule
 Environmental Information Processing_Signaling molecules and interaction_ECM-receptor interaction
 Human Diseases_Endocrine and metabolic diseases_AGE-RAGE signaling pathway in diabetic comp
 Human Diseases_Infectious diseases_Amoebiasis [PATH:ko05146]
 Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
 Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan binding proteins [BR:ko00530]
 Organismal_Digestive system_Protein digestion and absorption [PATH:ko04974]
 Organismal_Endocrine system_Relaxin signaling pathway [PATH:ko04926]
 Organismal_Immune system_Platelet activation [PATH:ko04611]
 Cellular Processes_Cellular community - eukaryotes_Focal adhesion [PATH:ko04510]
 Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
 Environmental Information Processing_Signal transduction_PIK3K-Akt signaling pathway [PATH:ko04510]
 Environmental Information Processing_Signaling molecules and interaction_Cell adhesion molecule
 Environmental Information Processing_Signaling molecules and interaction_ECM-receptor interaction
 Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
 Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan binding proteins [BR:ko00530]
 Organismal_Digestive system_Protein digestion and absorption [PATH:ko04974]
 Cellular Processes_Cellular community - eukaryotes_Focal adhesion [PATH:ko04510]
 Environmental Information Processing_Signal transduction_PIK3K-Akt signaling pathway [PATH:ko04510]
 Environmental Information Processing_Signaling molecules and interaction_Cell adhesion molecule
 Environmental Information Processing_Signaling molecules and interaction_ECM-receptor interaction
 Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Environmental Information Processing_Signaling molecules and interaction_ECM-receptor interaction
 Cellular Processes_Cell growth and death_Apoptosis [PATH:ko04210]
 Cellular Processes_Cellular community - eukaryotes_Focal adhesion [PATH:ko04510]
 Cellular Processes_Transport and catabolism_Autophagy - animal [PATH:ko04140]
 Environmental Information Processing_Signal transduction_AMPK signaling pathway [PATH:ko04150]
 Environmental Information Processing_Signal transduction_FoxO signaling pathway [PATH:ko04060]
 Environmental Information Processing_Signal transduction_MAPK signaling pathway - yeast [PATH:ko04150]
 Environmental Information Processing_Signal transduction_mTOR signaling pathway [PATH:ko04150]
 Environmental Information Processing_Signal transduction_PIK3K-Akt signaling pathway [PATH:ko04510]
 Environmental Information Processing_Signal transduction_Sphingolipid signaling pathway [PATH:ko04150]
 Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
 Human Diseases_Cancers_Choline metabolism in cancer [PATH:ko05231]
 Human Diseases_Cancers_Endometrial cancer [PATH:ko05213]

Human Diseases_Cancers_Non-small cell lung cancer [PATH:ko05223]
Human Diseases_Cancers_Prostate cancer [PATH:ko05215]
Human Diseases_Cancers_Proteoglycans in cancer [PATH:ko05205]
Human Diseases_Drug resistance_Platinum drug resistance [PATH:ko01524]
Human Diseases_Endocrine and metabolic diseases_Insulin resistance [PATH:ko04931]
Human Diseases_Infectious diseases_Hepatitis C [PATH:ko05160]
Human Diseases_Infectious diseases_Toxoplasmosis [PATH:ko05145]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Organismal_Endocrine system_Insulin signaling pathway [PATH:ko04910]
Organismal_Endocrine system_PPAR signaling pathway [PATH:ko03320]
Organismal_Endocrine system_Thyroid hormone signaling pathway [PATH:ko04919]
Organismal_Excretory system_Aldosterone-regulated sodium reabsorption [PATH:ko04960]
Organismal_Immune system_Fc epsilon RI signaling pathway [PATH:ko04664]
Organismal_Immune system_T cell receptor signaling pathway [PATH:ko04660]
Organismal_Nervous system_Neurotrophin signaling pathway [PATH:ko04722]
Metabolism_Xenobiotics biodegradation and metabolism_Nitrotoluene degradation [PATH:ko00633]
Metabolism_Xenobiotics biodegradation and metabolism_Nitrotoluene degradation [PATH:ko00633]
Metabolism_Metabolism of terpenoids and polyketides_Carotenoid biosynthesis [PATH:ko00906]
Metabolism_Metabolism of terpenoids and polyketides_Carotenoid biosynthesis [PATH:ko00906]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Xenobiotics biodegradation and metabolism_Caprolactam degradation [PATH:ko00930]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Metabolism_Carbohydrate metabolism_Inositol phosphate metabolism [PATH:ko00562]
Cellular Processes_Cell growth and death_Cell cycle - yeast [PATH:ko04111]
Cellular Processes_Cell growth and death_Cell cycle [PATH:ko04110]
Cellular Processes_Cell growth and death_Meiosis - yeast [PATH:ko04113]
Cellular Processes_Cell growth and death_Oocyte meiosis [PATH:ko04114]
Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko00001]
Metabolism_Glycan biosynthesis and metabolism_Proteoglycans [BR:ko00535]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00001]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko00001]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]

Cellular Processes_Transport and catabolism_Autophagy - yeast [PATH:ko04138]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
 Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
 Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
 Genetic Information Processing_Translation_Ribosome biogenesis [BR:ko03009]
 Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]
 Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
 Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
 Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
 Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00790]
 Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
 Metabolism_Biosynthesis of other secondary metabolites_Phenazine biosynthesis [PATH:ko00405]
 Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
 Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
 Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
 Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
 Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00540]
 Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00500]
 Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
 Metabolism_Xenobiotics biodegradation and metabolism_Chlorocyclohexane and chlorobenzene degradation [PATH:ko00643]
 Metabolism_Xenobiotics biodegradation and metabolism_Styrene degradation [PATH:ko00643]
 Metabolism_Xenobiotics biodegradation and metabolism_Xylene degradation [PATH:ko00622]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00500]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
 Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
 Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
 Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
 Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00790]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko02024]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko02024]
 Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
 Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
 Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
 Metabolism_Enzyme families_Peptidases [BR:ko01002]
 Genetic Information Processing_Translation_Ribosome biogenesis [BR:ko03009]
 Genetic Information Processing_Translation_Ribosome biogenesis in eukaryotes [PATH:ko03008]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Genetic Information Processing_Translation_Ribosome biogenesis [BR:ko03009]
 Genetic Information Processing_Translation_Ribosome biogenesis in eukaryotes [PATH:ko03008]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko04131]
 Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
 Organismal_Endocrine system_Insulin signaling pathway [PATH:ko04910]

Cellular Processes_Cellular community - eukaryotes_Tight junction [PATH:ko04530]
Cellular Processes_Transport and catabolism_Autophagy - animal [PATH:ko04140]
Environmental Information Processing_Signal transduction_AMPK signaling pathway [PATH:ko0415]
Environmental Information Processing_Signal transduction_Apelin signaling pathway [PATH:ko0437]
Environmental Information Processing_Signal transduction_FoxO signaling pathway [PATH:ko0406]
Environmental Information Processing_Signal transduction_mTOR signaling pathway [PATH:ko0415]
Environmental Information Processing_Signal transduction_PI3K-Akt signaling pathway [PATH:ko0415]
Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Human Diseases_Cardiovascular diseases_Fluid shear stress and atherosclerosis [PATH:ko05418]
Human Diseases_Cardiovascular diseases_Hypertrophic cardiomyopathy (HCM) [PATH:ko05410]
Human Diseases_Endocrine and metabolic diseases_Insulin resistance [PATH:ko04931]
Human Diseases_Endocrine and metabolic diseases_Non-alcoholic fatty liver disease (NAFLD) [PATH:ko05418]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Organismal_Aging_Longevity regulating pathway - mammal [PATH:ko04211]
Organismal_Aging_Longevity regulating pathway - multiple species [PATH:ko04213]
Organismal_Endocrine system_Adipocytokine signaling pathway [PATH:ko04920]
Organismal_Endocrine system_Glucagon signaling pathway [PATH:ko04922]
Organismal_Endocrine system_Insulin signaling pathway [PATH:ko04910]
Organismal_Endocrine system_Oxytocin signaling pathway [PATH:ko04921]
Organismal_Environmental adaptation_Circadian rhythm [PATH:ko04710]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Organismal_Digestive system_Mineral absorption [PATH:ko04978]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteins [PATH:ko00550]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteins [PATH:ko00550]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Human Diseases_Drug resistance_Vancomycin resistance [PATH:ko01502]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]

Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteins [PATH:ko01503]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko01003]
Metabolism_Carbohydrate metabolism_Inositol phosphate metabolism [PATH:ko00562]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Metabolism of other amino acids_Selenocompound metabolism [PATH:ko00450]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Infectious diseases_Pertussis [PATH:ko05133]
Cellular Processes_Cellular community - eukaryotes_Gap junction [PATH:ko04540]
Environmental Information Processing_Signal transduction_cGMP - PKG signaling pathway [PATH:ko04540]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Organismal_Circulatory system_Vascular smooth muscle contraction [PATH:ko04270]
Organismal_Digestive system_Salivary secretion [PATH:ko04970]
Organismal_Endocrine system_Regulation of lipolysis in adipocyte [PATH:ko04923]
Organismal_Environmental adaptation_Circadian entrainment [PATH:ko04713]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Organismal_Immune system_Platelet activation [PATH:ko04611]
Organismal_Nervous system_Long-term depression [PATH:ko04730]
Organismal_Sensory system_Olfactory transduction [PATH:ko04740]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Glycan biosynthesis and metabolism_Glycosphingolipid biosynthesis - globo and isoglobo [PATH:ko00561]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Lipid metabolism_Sphingolipid metabolism [PATH:ko00600]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Glycan biosynthesis and metabolism_Glycosphingolipid biosynthesis - globo and isoglobo [PATH:ko00561]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Lipid metabolism_Sphingolipid metabolism [PATH:ko00600]
Metabolism_Enzyme families_Cytochrome P450 [BR:ko00199]
Metabolism_Lipid metabolism_Primary bile acid biosynthesis [PATH:ko00120]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03430]
Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03440]
Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]

Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Lipid metabolism_Fatty acid elongation [PATH:ko00062]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Lipid metabolism_Fatty acid elongation [PATH:ko00062]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Lipid metabolism_Fatty acid elongation [PATH:ko00062]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko006]
Metabolism_Xenobiotics biodegradation and metabolism_Caprolactam degradation [PATH:ko00930]
Metabolism_Lipid metabolism_Fatty acid elongation [PATH:ko00062]
Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Lipid metabolism_alpha-Linolenic acid metabolism [PATH:ko00592]
Metabolism_Lipid metabolism_Biosynthesis of unsaturated fatty acids [PATH:ko01040]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Organismal_Endocrine system_PPAR signaling pathway [PATH:ko03320]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Lipid metabolism_Biosynthesis of unsaturated fatty acids [PATH:ko01040]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Lipid metabolism_Fatty acid elongation [PATH:ko00062]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko006]
Metabolism_Xenobiotics biodegradation and metabolism_Caprolactam degradation [PATH:ko00930]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Organismal_Development_Axon guidance [PATH:ko04360]
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
Genetic Information Processing_Translation_RNA degradation [PATH:ko03018]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko04400]

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Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]
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Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
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Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
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Human Diseases_Infectious diseases_Pertussis [PATH:ko05133]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
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Metabolism_Lipid metabolism_Steroid biosynthesis [PATH:ko00100]
Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Metabolism_Lipid metabolism_Biosynthesis of unsaturated fatty acids [PATH:ko01040]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Enzyme families_Protein phosphatase and associated proteins [BR:ko01009]
Metabolism_Metabolism of cofactors and vitamins_Vitamin B6 metabolism [PATH:ko00750]
Environmental Information Processing_Signal transduction_TNF signaling pathway [PATH:ko04668]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Organismal_Endocrine system_GnRH signaling pathway [PATH:ko04912]
Organismal_Endocrine system_Parathyroid hormone synthesis secretion and action [PATH:ko04926]
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 Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
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 Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
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 Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]
 Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00100]
 Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko01003]
 Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan biosynthesis - heparan sulfat
 Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
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 Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
 Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
 Metabolism_Enzyme families_Peptidases [BR:ko01002]
 Organismal_Endocrine system_Parathyroid hormone synthesis secretion and action [PATH:ko04928]

Organismal_Endocrine system_Relaxin signaling pathway [PATH:ko04926]
 Organismal_Immune system_IL-17 signaling pathway [PATH:ko04657]
 Metabolism_Enzyme families_Peptidases [BR:ko01002]
 Organismal_Endocrine system_Parathyroid hormone synthesis secretion and action [PATH:ko04926]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00053]
 Metabolism_Biosynthesis of other secondary metabolites_Tropane piperidine and pyridine alkaloid biosynthesis [PATH:ko00053]
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 Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
 Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
 Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
 Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
 Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
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 Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00053]
 Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan biosynthesis - heparan sulfate [PATH:ko00053]
 Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko00053]
 Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan biosynthesis - chondroitin sulfate [PATH:ko00053]
 Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
 Cellular Processes_Cell growth and death_Meiosis - yeast [PATH:ko04113]
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 Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
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 Metabolism_Lipid metabolism_Steroid biosynthesis [PATH:ko00100]
 Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
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 Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
 Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00053]
 Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
 Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
 Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko00053]
 Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
 Genetic Information Processing_Translation_Ribosome biogenesis [BR:ko03009]
 Genetic Information Processing_Translation_RNA degradation [PATH:ko03018]
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 Human Diseases_Infectious diseases_Epithelial cell signaling in Helicobacter pylori infection [PATH:ko00053]
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 Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
 Genetic Information Processing_Translation_RNA degradation [PATH:ko03018]
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Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
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Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
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Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
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Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
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Cellular Processes_Cell growth and death_Apoptosis - multiple species [PATH:ko04215]
Cellular Processes_Cell growth and death_Apoptosis [PATH:ko04210]
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Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
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Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
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Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
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Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
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Cellular Processes_Cell growth and death_Apoptosis - multiple species [PATH:ko04215]
Cellular Processes_Cell growth and death_Apoptosis [PATH:ko04210]
Cellular Processes_Cell growth and death_p53 signaling pathway [PATH:ko04115]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko0202!
Human Diseases_Cancers_Colorectal cancer [PATH:ko05210]
Human Diseases_Cancers_Pathways in cancer [PATH:ko05200]
Human Diseases_Cancers_Small cell lung cancer [PATH:ko05222]
Human Diseases_Cardiovascular diseases_Viral myocarditis [PATH:ko05416]
Human Diseases_Drug resistance_Platinum drug resistance [PATH:ko01524]
Human Diseases_Endocrine and metabolic diseases_Non-alcoholic fatty liver disease (NAFLD) [PAT
Human Diseases_Infectious diseases_Hepatitis B [PATH:ko05161]
Human Diseases_Infectious diseases_Herpes simplex infection [PATH:ko05168]
Human Diseases_Infectious diseases_Influenza A [PATH:ko05164]
Human Diseases_Infectious diseases_Kaposi's sarcoma-associated herpesvirus infection [PATH:koC
Human Diseases_Infectious diseases_Legionellosis [PATH:ko05134]
Human Diseases_Infectious diseases_Toxoplasmosis [PATH:ko05145]
Human Diseases_Infectious diseases_Tuberculosis [PATH:ko05152]
Human Diseases_Neurodegenerative diseases_Alzheimer's disease [PATH:ko05010]

Human Diseases_Neurodegenerative diseases_Amyotrophic lateral sclerosis (ALS) [PATH:ko05014]
 Human Diseases_Neurodegenerative diseases_Huntington's disease [PATH:ko05016]
 Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
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 Human Diseases_Endocrine and metabolic diseases_Insulin resistance [PATH:ko04931]
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 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Human Diseases_Endocrine and metabolic diseases_Insulin resistance [PATH:ko04931]
 Metabolism_Lipid metabolism_Primary bile acid biosynthesis [PATH:ko00120]
 Organismal_Digestive system_Bile secretion [PATH:ko04976]
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 Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
 Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
 Human Diseases_Neurodegenerative diseases_Parkinson's disease [PATH:ko05012]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Environmental Information Processing_Signal transduction_FoxO signaling pathway [PATH:ko04061]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko00001]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko00001]
 Human Diseases_Infectious diseases_Tuberculosis [PATH:ko05152]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Organismal_Immune system_C-type lectin receptor signaling pathway [PATH:ko04625]
 Environmental Information Processing_Signal transduction_FoxO signaling pathway [PATH:ko04061]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko00001]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Environmental Information Processing_Signal transduction_Hedgehog signaling pathway - fly [PATH:ko04310]
 Environmental Information Processing_Signal transduction_Hedgehog signaling pathway [PATH:ko04310]
 Environmental Information Processing_Signal transduction_Wnt signaling pathway [PATH:ko04310]
 Human Diseases_Cancers_Breast cancer [PATH:ko05224]
 Human Diseases_Cancers_Gastric cancer [PATH:ko05226]
 Human Diseases_Cancers_Hepatocellular carcinoma [PATH:ko05225]
 Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
 Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]

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Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine biosynthesis [PATH:ko00290]
Metabolism_Carbohydrate metabolism_C5-Branched dibasic acid metabolism [PATH:ko00660]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko03000]
Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
Human Diseases_Cancers_Transcriptional misregulation in cancers [PATH:ko05202]
Human Diseases_Endocrine and metabolic diseases_Cushing's syndrome [PATH:ko04934]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Metabolism of cofactors and vitamins_Biotin metabolism [PATH:ko00780]
Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko00660]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Genetic Information Processing_Translation_Protein processing in endoplasmic reticulum [PATH:ko00970]
Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Human Diseases_Cancers_Viral carcinogenesis [PATH:ko05203]
Metabolism_Metabolism of cofactors and vitamins_Retinol metabolism [PATH:ko00830]
Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Human Diseases_Neurodegenerative diseases_Prion diseases [PATH:ko05020]
Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Organismal_Endocrine system_Estrogen signaling pathway [PATH:ko04915]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Organismal_Digestive system_Pancreatic secretion [PATH:ko04972]
Organismal_Digestive system_Protein digestion and absorption [PATH:ko04974]
Human Diseases_Cancers_Prostate cancer [PATH:ko05215]
Human Diseases_Cancers_Transcriptional misregulation in cancers [PATH:ko05202]

Human Diseases_Infectious diseases_Influenza A [PATH:ko05164]
 Metabolism_Enzyme families_Peptidases [BR:ko01002]
 Human Diseases_Infectious diseases_Influenza A [PATH:ko05164]
 Metabolism_Enzyme families_Peptidases [BR:ko01002]
 Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
 Metabolism_Glycan biosynthesis and metabolism_Various types of N-glycan biosynthesis [PATH:ko05164]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko05164]
 Human Diseases_Endocrine and metabolic diseases_Insulin resistance [PATH:ko04931]
 Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
 Metabolism_Glycan biosynthesis and metabolism_Other types of O-glycan biosynthesis [PATH:ko05164]
 Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
 Metabolism_Glycan biosynthesis and metabolism_Various types of N-glycan biosynthesis [PATH:ko05164]
 Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
 Metabolism_Glycan biosynthesis and metabolism_Various types of N-glycan biosynthesis [PATH:ko05164]
 Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00060]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
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 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
 Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
 Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
 Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
 Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
 Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
 Metabolism_Biosynthesis of other secondary metabolites_Phenylpropanoid biosynthesis [PATH:ko00060]
 Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
 Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
 Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
 Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosyn
Metabolism_Metabolism of terpenoids and polyketides_Prenyltransferases [BR:ko01006]
Metabolism_Metabolism of terpenoids and polyketides_Carotenoid biosynthesis [PATH:ko00906]
Metabolism_Metabolism of terpenoids and polyketides_Carotenoid biosynthesis [PATH:ko00906]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Organismal_Digestive system_Bile secretion [PATH:ko04976]
Organismal_Excretory system_Vasopressin-regulated water reabsorption [PATH:ko04962]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Organismal_Digestive system_Bile secretion [PATH:ko04976]
Metabolism_Metabolism of terpenoids and polyketides_Carotenoid biosynthesis [PATH:ko00906]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Metabolism of other amino acids_Phosphonate and phosphinate metabolism [PATH:ko
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]

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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01500]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00010]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko02000]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01500]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00010]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00100]
 Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
 Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [BR:ko00060]
 Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
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 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Cellular Processes_Cell growth and death_p53 signaling pathway [PATH:ko04115]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
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 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
 Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
 Metabolism_Metabolism of terpenoids and polyketides_Carotenoid biosynthesis [PATH:ko00906]
 Metabolism_Metabolism of terpenoids and polyketides_Carotenoid biosynthesis [PATH:ko00906]
 Metabolism_Metabolism of terpenoids and polyketides_Carotenoid biosynthesis [PATH:ko00906]
 Metabolism_Metabolism of terpenoids and polyketides_Carotenoid biosynthesis [PATH:ko00906]
 Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
 Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
 Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko00600]
 Metabolism_Lipid metabolism_Biosynthesis of unsaturated fatty acids [PATH:ko01040]
 Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
 Metabolism_Lipid metabolism_alpha-Linolenic acid metabolism [PATH:ko00592]
 Metabolism_Lipid metabolism_Biosynthesis of unsaturated fatty acids [PATH:ko01040]
 Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]

Organismal_Endocrine system_PPAR signaling pathway [PATH:ko03320]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
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Metabolism_Lipid metabolism_Biosynthesis of unsaturated fatty acids [PATH:ko01040]
Metabolism_Lipid metabolism_Fatty acid elongation [PATH:ko00062]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Lipid metabolism_Steroid hormone biosynthesis [PATH:ko00140]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
Genetic Information Processing_Translation_Ubiquitin mediated proteolysis [PATH:ko04120]
Genetic Information Processing_Translation_Ubiquitin system [BR:ko04121]
Cellular Processes_Cell motility_Cytoskeleton proteins [BR:ko04812]
Cellular Processes_Cellular community - eukaryotes_Tight junction [PATH:ko04530]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Cellular Processes_Cell motility_Cytoskeleton proteins [BR:ko04812]
Human Diseases_Cancers_Proteoglycans in cancer [PATH:ko05205]
Organismal_Immune system_Toll and Imd signaling pathway [PATH:ko04624]
Cellular Processes_Cell motility_Cytoskeleton proteins [BR:ko04812]
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
Human Diseases_Infectious diseases_Salmonella infection [PATH:ko05132]
Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Genetic Information Processing_Translation_Ubiquitin mediated proteolysis [PATH:ko04120]
Genetic Information Processing_Translation_Ubiquitin system [BR:ko04121]
Human Diseases_Cancers_Hepatocellular carcinoma [PATH:ko05225]
Human Diseases_Cancers_Pathways in cancer [PATH:ko05200]
Human Diseases_Cardiovascular diseases_Fluid shear stress and atherosclerosis [PATH:ko05418]
Metabolism_Lipid metabolism_alpha-Linolenic acid metabolism [PATH:ko00592]
Metabolism_Lipid metabolism_alpha-Linolenic acid metabolism [PATH:ko00592]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Lipid metabolism_alpha-Linolenic acid metabolism [PATH:ko00592]

Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]
Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan degradation [PATH:ko00531]
Metabolism_Metabolism of terpenoids and polyketides_Limonene and pinene degradation [PATH:ko00910]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
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Cellular Processes_Cell motility_Bacterial chemotaxis [PATH:ko02030]
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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Translation_Ubiquitin mediated proteolysis [PATH:ko04120]
Genetic Information Processing_Translation_Ubiquitin system [BR:ko04121]
Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:k
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Translation_Ubiquitin mediated proteolysis [PATH:ko04120]
Genetic Information Processing_Translation_Ubiquitin system [BR:ko04121]
Genetic Information Processing_Translation_Ubiquitin mediated proteolysis [PATH:ko04120]
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Genetic Information Processing_Translation_Ubiquitin mediated proteolysis [PATH:ko04120]
Genetic Information Processing_Translation_Ubiquitin system [BR:ko04121]
Metabolism_Xenobiotics biodegradation and metabolism_Nitrotoluene degradation [PATH:ko00633]
Metabolism_Xenobiotics biodegradation and metabolism_Nitrotoluene degradation [PATH:ko00633]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Genetic Information Processing_Translation_Ubiquitin mediated proteolysis [PATH:ko04120]
Genetic Information Processing_Translation_Ubiquitin system [BR:ko04121]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Enzyme families_Cytochrome P450 [BR:ko00199]
Metabolism_Metabolism of terpenoids and polyketides_Zeatin biosynthesis [PATH:ko00908]
Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
Genetic Information Processing_Replication and repair_Nucleotide excision repair [PATH:ko03420]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Genetic Information Processing_Replication and repair_Mismatch repair [PATH:ko03430]
Genetic Information Processing_Replication and repair_Nucleotide excision repair [PATH:ko03420]

Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Cellular Processes_Cell growth and death_Apoptosis - fly [PATH:ko04214]
Cellular Processes_Cell growth and death_Apoptosis [PATH:ko04210]
Cellular Processes_Cell growth and death_Necroptosis [PATH:ko04217]
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:k
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Organismal_Aging_Longevity regulating pathway - worm [PATH:ko04212]
Metabolism_Lipid metabolism_Biosynthesis of unsaturated fatty acids [PATH:ko01040]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Lipid metabolism_Biosynthesis of unsaturated fatty acids [PATH:ko01040]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Lipid metabolism_Biosynthesis of unsaturated fatty acids [PATH:ko01040]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - other enzymes [PATH:
Cellular Processes_Cell growth and death_p53 signaling pathway [PATH:ko04115]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - other enzymes [PATH:
Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]
Environmental Information Processing_Signaling molecules and interaction_Bacterial toxins [BR:ko
Metabolism_Metabolism of other amino acids_Cyanoamino acid metabolism [PATH:ko00460]
Environmental Information Processing_Signaling molecules and interaction_Bacterial toxins [BR:ko
Metabolism_Metabolism of other amino acids_Cyanoamino acid metabolism [PATH:ko00460]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
 Genetic Information Processing_Replication and repair_Nucleotide excision repair [PATH:ko03420]
 Genetic Information Processing_Transcription_Basal transcription factors [PATH:ko03022]
 Genetic Information Processing_Transcription_Transcription machinery [BR:ko03021]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
 Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
 Genetic Information Processing_Replication and repair_Fanconi anemia pathway [PATH:ko03460]
 Genetic Information Processing_Replication and repair_Nucleotide excision repair [PATH:ko03420]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
 Genetic Information Processing_Replication and repair_Homologous recombination [PATH:ko03440]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
 Genetic Information Processing_Replication and repair_Fanconi anemia pathway [PATH:ko03460]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko
 Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Human Diseases_Infectious diseases_Vibrio cholerae infection [PATH:ko05110]
 Metabolism_Enzyme families_Protein phosphatase and associated proteins [BR:ko01009]
 Organismal_Digestive system_Pancreatic secretion [PATH:ko04972]
 Organismal_Digestive system_Salivary secretion [PATH:ko04970]
 Environmental Information Processing_Signaling molecules and interaction_Bacterial toxins [BR:ko
 Human Diseases_Infectious diseases_Vibrio cholerae infection [PATH:ko05110]
 Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
 Human Diseases_Cancers_Gastric cancer [PATH:ko05226]
 Human Diseases_Infectious diseases_Amoebiasis [PATH:ko05146]
 Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
 Genetic Information Processing_Replication and repair_Non-homologous end-joining [PATH:ko0345
 Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0
 Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Human Diseases_Infectious diseases_Pertussis [PATH:ko05133]

Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko02010]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Infectious diseases_Pertussis [PATH:ko05133]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Immune diseases_Systemic lupus erythematosus [PATH:ko05322]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Signaling molecules and interaction_CD Molecules [BR:ko04147]
Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Organismal_Endocrine system_Renin-angiotensin system [PATH:ko04614]
Organismal_Immune system_Hematopoietic cell lineage [PATH:ko04640]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Signaling molecules and interaction_CD Molecules [BR:ko04147]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Organismal_Endocrine system_Renin-angiotensin system [PATH:ko04614]
Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Metabolism_Metabolism of cofactors and vitamins_Retinol metabolism [PATH:ko00830]
Metabolism_Metabolism of cofactors and vitamins_Retinol metabolism [PATH:ko00830]
Metabolism_Metabolism of cofactors and vitamins_Retinol metabolism [PATH:ko00830]
Metabolism_Metabolism of cofactors and vitamins_Retinol metabolism [PATH:ko00830]
Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]

Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
 Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
 Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
 Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
 Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
 Metabolism_Xenobiotics biodegradation and metabolism_Nitrotoluene degradation [PATH:ko00633]
 Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PA
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
 Metabolism_Biosynthesis of other secondary metabolites_Phenylpropanoid biosynthesis [PATH:ko0
 Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00540]
 Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
 Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
 Cellular Processes_Transport and catabolism_Mitophagy - yeast [PATH:ko04139]
 Environmental Information Processing_Signal transduction_MAPK signaling pathway - yeast [PATH:
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko0202
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Cellular Processes_Cell growth and death_Necroptosis [PATH:ko04217]
 Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:k
 Human Diseases_Immune diseases_Systemic lupus erythematosus [PATH:ko05322]
 Human Diseases_Substance dependence_Alcoholism [PATH:ko05034]
 Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
 Environmental Information Processing_Signal transduction_AMPK signaling pathway [PATH:ko0415
 Metabolism_Biosynthesis of other secondary metabolites_Aflatoxin biosynthesis [PATH:ko00254]
 Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
 Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
 Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
 Organismal_Endocrine system_Glucagon signaling pathway [PATH:ko04922]
 Organismal_Endocrine system_Insulin signaling pathway [PATH:ko04910]
 Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
 Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
 Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
 Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
 Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
 Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko006
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko0202
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko0202
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko0202
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko0202
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko0202
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]

Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
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 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02022]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02022]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
 Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
 Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
 Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
 Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
 Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
 Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00350]
 Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
 Metabolism_Biosynthesis of other secondary metabolites_Isoquinoline alkaloid biosynthesis [PATH:ko00401]
 Metabolism_Biosynthesis of other secondary metabolites_Novobiocin biosynthesis [PATH:ko00401]
 Metabolism_Biosynthesis of other secondary metabolites_Tropane piperidine and pyridine alkaloid biosynthesis [PATH:ko00280]
 Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
 Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02022]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02022]
 Environmental Information Processing_Signal transduction_Apelin signaling pathway [PATH:ko0430]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko004131]
 Human Diseases_Cancers_Viral carcinogenesis [PATH:ko05203]
 Human Diseases_Infectious diseases_Epstein-Barr virus infection [PATH:ko05165]
 Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
 Human Diseases_Substance dependence_Alcoholism [PATH:ko05034]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko004131]
 Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
 Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
 Human Diseases_Cancers_Viral carcinogenesis [PATH:ko05203]
 Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
 Human Diseases_Substance dependence_Alcoholism [PATH:ko05034]
 Metabolism_Enzyme families_Protein phosphatase and associated proteins [BR:ko01009]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko004131]
 Human Diseases_Cancers_Viral carcinogenesis [PATH:ko05203]
 Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
 Human Diseases_Substance dependence_Alcoholism [PATH:ko05034]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko004131]
 Human Diseases_Cancers_Viral carcinogenesis [PATH:ko05203]
 Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
 Human Diseases_Substance dependence_Alcoholism [PATH:ko05034]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko004131]

Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko00062]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Cellular Processes_Cell motility_Bacterial motility proteins [BR:ko02035]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko04112]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Human Diseases_Endocrine and metabolic diseases_Insulin resistance [PATH:ko04931]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
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Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
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Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
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Metabolism_Enzyme families_Protein kinases [BR:ko01001]
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Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko05203]
Human Diseases_Cancers_Viral carcinogenesis [PATH:ko05203]
Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]

Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Energy metabolism_Carbon fixation in photosynthetic organisms [PATH:ko00710]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
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Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
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Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteins [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteins [PATH:ko00550]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Other types of O-glycan biosynthesis [PATH:ko00550]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Metabolism of other amino acids_Selenocompound metabolism [PATH:ko00450]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Enzyme families_Protein phosphatase and associated proteins [BR:ko01009]
Metabolism_Metabolism of terpenoids and polyketides_Geraniol degradation [PATH:ko00281]
Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
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Metabolism_Enzyme families_Peptidases [BR:ko01002]
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Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
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Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
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Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]

Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosyn
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosyn
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosyn
Human Diseases_Drug resistance_Antifolate resistance [PATH:ko01523]
Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
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Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0
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Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0
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Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Environmental Information Processing_Membrane transport_Bacterial secretion system [PATH:ko0
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
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Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
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Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko
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Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
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Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
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Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
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Environmental Information Processing_Signal transduction_NF-kappa B signaling pathway [PATH:k
Environmental Information Processing_Signal transduction_TNF signaling pathway [PATH:ko04668]
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Human Diseases_Cancers_MicroRNAs in cancer [PATH:ko05206]
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Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
Human Diseases_Infectious diseases_Kaposi's sarcoma-associated herpesvirus infection [PATH:koC
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Organismal_Endocrine system_Oxytocin signaling pathway [PATH:ko04921]
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Organismal_Immune system_C-type lectin receptor signaling pathway [PATH:ko04625]
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Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]

Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
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Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
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Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
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Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan degradation [PATH:ko00531]
Metabolism_Glycan biosynthesis and metabolism_Glycosphingolipid biosynthesis - ganglio series [F
Metabolism_Glycan biosynthesis and metabolism_Other glycan degradation [PATH:ko00511]
Metabolism_Lipid metabolism_Sphingolipid metabolism [PATH:ko00600]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
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Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Organismal_Circulatory system_Vascular smooth muscle contraction [PATH:ko04270]
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Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02024]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]

Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
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 Organismal_Environmental adaptation_Plant-pathogen interaction [PATH:ko04626]
 Metabolism_Lipid metabolism_Steroid hormone biosynthesis [PATH:ko00140]
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 Metabolism_Lipid metabolism_Sphingolipid metabolism [PATH:ko00600]
 Metabolism_Glycan biosynthesis and metabolism_Other glycan degradation [PATH:ko00511]
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 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
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 Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00531]
 Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan degradation [PATH:ko00531]
 Metabolism_Glycan biosynthesis and metabolism_Glycosphingolipid biosynthesis - ganglio series [F00000]
 Metabolism_Glycan biosynthesis and metabolism_Glycosphingolipid biosynthesis - globo and isoglobo series [F00000]
 Metabolism_Glycan biosynthesis and metabolism_Other glycan degradation [PATH:ko00511]
 Metabolism_Glycan biosynthesis and metabolism_Various types of N-glycan biosynthesis [PATH:ko00511]
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 Metabolism_Lipid metabolism_Primary bile acid biosynthesis [PATH:ko00120]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00531]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00531]
 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00531]
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 Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00531]
 Organismal_Nervous system_Neurotrophin signaling pathway [PATH:ko04722]
 Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00531]
 Metabolism_Metabolism of terpenoids and polyketides_Prenyltransferases [BR:ko01006]
 Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00531]
 Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00531]
 Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
 Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
 Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
 Metabolism_Biosynthesis of other secondary metabolites_Monobactam biosynthesis [PATH:ko00260]
 Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
 Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
 Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]

Metabolism_Biosynthesis of other secondary metabolites_Monobactam biosynthesis [PATH:ko0026]
Metabolism_Metabolism of other amino acids_Selenocompound metabolism [PATH:ko00450]
Metabolism_Metabolism of other amino acids_Selenocompound metabolism [PATH:ko00450]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation prot
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation prot
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation prot
Cellular Processes_Cell motility_Cytoskeleton proteins [BR:ko04812]
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Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
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Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
Genetic Information Processing_Translation_RNA degradation [PATH:ko03018]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
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Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
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Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
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Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
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Genetic Information Processing_Transcription_Spliceosome [BR:ko03041]

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Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Genetic Information Processing_Transcription_Spliceosome [BR:ko03041]
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Organismal_Environmental adaptation_Plant-pathogen interaction [PATH:ko04626]
Organismal_Immune system_NOD-like receptor signaling pathway [PATH:ko04621]
Genetic Information Processing_Transcription_Spliceosome [BR:ko03041]
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Genetic Information Processing_Transcription_Spliceosome [BR:ko03041]
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Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00260]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
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Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00260]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00260]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00260]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00260]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00260]
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Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00260]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00260]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00260]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00260]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00260]
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Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis proteins [BR:ko00260]
Metabolism_Metabolism of other amino acids_Cyanoamino acid metabolism [PATH:ko00460]
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Genetic Information Processing_Transcription_Spliceosome [BR:ko03041]
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
Genetic Information Processing_Translation_mRNA surveillance pathway [PATH:ko03015]
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Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
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Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
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Metabolism_Enzyme families_Peptidases [BR:ko01002]
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
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Metabolism_Lipid metabolism_Steroid hormone biosynthesis [PATH:ko00140]
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Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
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Organismal_Environmental adaptation_Plant-pathogen interaction [PATH:ko04626]
Human Diseases_Infectious diseases_Toxoplasmosis [PATH:ko05145]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Organismal_Environmental adaptation_Plant-pathogen interaction [PATH:ko04626]
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Environmental Information Processing_Signal transduction_Plant hormone signal transduction [PAT
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Organismal_Environmental adaptation_Plant-pathogen interaction [PATH:ko04626]
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Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]

Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
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Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00010]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00010]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00010]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Environmental Information Processing_Signal transduction_Phospholipase D signaling pathway [PATH:ko00564]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Organismal_Digestive system_Fat digestion and absorption [PATH:ko04975]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Organismal_Nervous system_GABAergic synapse [PATH:ko04727]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
Genetic Information Processing_Translation_Protein processing in endoplasmic reticulum [PATH:ko03010]
Human Diseases_Infectious diseases_Legionellosis [PATH:ko05134]
Genetic Information Processing_Translation_Proteasome [BR:ko03051]
Genetic Information Processing_Translation_Proteasome [PATH:ko03050]
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko03000]
Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]

Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00001]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00001]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00001]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko000250]
Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
Cellular Processes_Transport and catabolism_Prokaryotic Defense System [BR:ko02048]
Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02022]
Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02022]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02022]
Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02022]
Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
Cellular Processes_Cell growth and death_Cell cycle - Caulobacter [PATH:ko04112]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02022]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02022]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00001]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00001]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Biosynthesis of other secondary metabolites_Tropane piperidine and pyridine alkaloid I [PATH:ko00001]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Cellular Processes_Cell growth and death_Ferroptosis [PATH:ko04216]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00001]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Organismal_Nervous system_Retrograde endocannabinoid signaling [PATH:ko04723]
Human Diseases_Infectious diseases_Bacterial invasion of epithelial cells [PATH:ko05100]
Human Diseases_Infectious diseases_Bacterial invasion of epithelial cells [PATH:ko05100]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]

Human Diseases_Infectious diseases_Salmonella infection [PATH:ko05132]
Metabolism_Metabolism of terpenoids and polyketides_Geraniol degradation [PATH:ko00281]
Metabolism_Metabolism of terpenoids and polyketides_Geraniol degradation [PATH:ko00281]
Metabolism_Metabolism of terpenoids and polyketides_Geraniol degradation [PATH:ko00281]
Metabolism_Metabolism of terpenoids and polyketides_Geraniol degradation [PATH:ko00281]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Signal transduction_mTOR signaling pathway [PATH:ko0415]
Human Diseases_Cancers_Central carbon metabolism in cancer [PATH:ko05230]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Organismal_Digestive system_Protein digestion and absorption [PATH:ko04974]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00001]
Metabolism_Metabolism of terpenoids and polyketides_Prenyltransferases [BR:ko01006]
Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00001]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Metabolism of other amino acids_Taurine and hypotaurine metabolism [PATH:ko00430]
Metabolism_Metabolism of terpenoids and polyketides_Prenyltransferases [BR:ko01006]
Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00001]
Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00001]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Biosynthesis of other secondary metabolites_Monobactam biosynthesis [PATH:ko00026]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Metabolism of other amino acids_Selenocompound metabolism [PATH:ko00450]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00001]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00001]
Human Diseases_Infectious diseases_Malaria [PATH:ko05144]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00001]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Organismal_Digestive system_Protein digestion and absorption [PATH:ko04974]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Organismal_Digestive system_Protein digestion and absorption [PATH:ko04974]
Cellular Processes_Cell growth and death_Ferroptosis [PATH:ko04216]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Human Diseases_Cancers_Chemical carcinogenesis [PATH:ko05204]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Metabolism of cofactors and vitamins_Retinol metabolism [PATH:ko00830]
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - cytochrome P450 [PAT
Metabolism_Xenobiotics biodegradation and metabolism_Metabolism of xenobiotics by cytochrome
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Metabolism of cofactors and vitamins_Retinol metabolism [PATH:ko00830]
Metabolism_Xenobiotics biodegradation and metabolism_Chloroalkane and chloroalkene degradatic
Metabolism_Xenobiotics biodegradation and metabolism_Drug metabolism - cytochrome P450 [PAT
Metabolism_Xenobiotics biodegradation and metabolism_Metabolism of xenobiotics by cytochrome
Metabolism_Xenobiotics biodegradation and metabolism_Naphthalene degradation [PATH:ko00626]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Xenobiotics biodegradation and metabolism_Chloroalkane and chloroalkene degradatic
Metabolism_Xenobiotics biodegradation and metabolism_Naphthalene degradation [PATH:ko00626]
Human Diseases_Infectious diseases_Amoebiasis [PATH:ko05146]
Organismal_Nervous system_Retrograde endocannabinoid signaling [PATH:ko04723]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:k
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Metabolism of cofactors and vitamins_One carbon pool by folate [PATH:ko00670]
Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
Genetic Information Processing_Translation_Protein processing in endoplasmic reticulum [PATH:ko
Genetic Information Processing_Translation_Protein processing in endoplasmic reticulum [PATH:ko]

Human Diseases_Infectious diseases_Epithelial cell signaling in Helicobacter pylori infection
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Xenobiotics biodegradation and metabolism_Atrazine degradation [PATH:ko00791]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko00204]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko00204]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]
Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Metabolism of other amino acids_Selenocompound metabolism [PATH:ko00450]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Organismal_Digestive system_Bile secretion [PATH:ko04976]
Organismal_Digestive system_Carbohydrate digestion and absorption [PATH:ko04973]
Organismal_Digestive system_Mineral absorption [PATH:ko04978]
Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00240]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00240]
Metabolism_Biosynthesis of other secondary metabolites_Novobiocin biosynthesis [PATH:ko00401]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01504]
Human Diseases_Infectious diseases_Staphylococcus aureus infection [PATH:ko05150]
Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Organismal_Digestive system_Protein digestion and absorption [PATH:ko04974]
Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00059]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine biosynthesis [PATH:ko00290]

Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Amino acid metabolism_Lysine biosynthesis [PATH:ko00300]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
Genetic Information Processing_Translation_mRNA surveillance pathway [PATH:ko03015]
Genetic Information Processing_Translation_RNA transport [PATH:ko03013]
Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko006]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]
Metabolism_Enzyme families_Cytochrome P450 [BR:ko00199]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko006]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Cellular Processes_Transport and catabolism_Lysosome [PATH:ko04142]
Human Diseases_Immune diseases_Rheumatoid arthritis [PATH:ko05323]
Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
Organismal_Development_Osteoclast differentiation [PATH:ko04380]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Organismal_Endocrine system_Thyroid hormone synthesis [PATH:ko04918]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Organismal_Digestive system_Vitamin digestion and absorption [PATH:ko04977]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Cancers_Choline metabolism in cancer [PATH:ko05231]
Organismal_Nervous system_Cholinergic synapse [PATH:ko04725]
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
Genetic Information Processing_Translation_mRNA surveillance pathway [PATH:ko03015]
Human Diseases_Infectious diseases_Influenza A [PATH:ko05164]
Genetic Information Processing_Transcription_Transcription machinery [BR:ko03021]
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
Genetic Information Processing_Translation_mRNA surveillance pathway [PATH:ko03015]
Cellular Processes_Cellular community - eukaryotes_Signaling pathways regulating pluripotency of
Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:k
Metabolism_Glycan biosynthesis and metabolism_Other glycan degradation [PATH:ko00511]
Metabolism_Glycan biosynthesis and metabolism_Various types of N-glycan biosynthesis [PATH:ko
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Environmental Information Processing_Signal transduction_Plant hormone signal transduction [PAT
Environmental Information Processing_Signal transduction_Plant hormone signal transduction [PAT
Environmental Information Processing_Signal transduction_Plant hormone signal transduction [PAT
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Xenobiotics biodegradation and metabolism_Atrazine degradation [PATH:ko00791]
Genetic Information Processing_Translation_Ribosome biogenesis [BR:ko03009]
Genetic Information Processing_Translation_Ribosome biogenesis in eukaryotes [PATH:ko03008]
Genetic Information Processing_Translation_Ribosome biogenesis [BR:ko03009]
Genetic Information Processing_Translation_Ribosome biogenesis in eukaryotes [PATH:ko03008]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]

Metabolism_Enzyme families_Peptidases [BR:ko01002]
 Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
 Genetic Information Processing_Translation_Chaperones and folding catalysts [BR:ko03110]
 Metabolism_Enzyme families_Peptidases [BR:ko01002]
 Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
 Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
 Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
 Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
 Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
 Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
 Metabolism_Enzyme families_Peptidases [BR:ko01002]
 Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
 Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Organismal_Endocrine system_Parathyroid hormone synthesis secretion and action [PATH:ko04926]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Organismal_Digestive system_Mineral absorption [PATH:ko04978]
 Metabolism_Metabolism of terpenoids and polyketides_Limonene and pinene degradation [PATH:ko00930]
 Metabolism_Xenobiotics biodegradation and metabolism_Caprolactam degradation [PATH:ko00930]
 Metabolism_Metabolism of terpenoids and polyketides_Limonene and pinene degradation [PATH:ko00930]
 Cellular Processes_Transport and catabolism_Exosome [BR:ko04147]
 Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
 Human Diseases_Infectious diseases_Measles [PATH:ko05162]
 Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00980]
 Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00980]
 Metabolism_Metabolism of terpenoids and polyketides_Insect hormone biosynthesis [PATH:ko00980]
 Organismal_Aging_Longevity regulating pathway - worm [PATH:ko04212]
 Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
 Human Diseases_Infectious diseases_Tuberculosis [PATH:ko05152]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Human Diseases_Infectious diseases_Tuberculosis [PATH:ko05152]
 Human Diseases_Infectious diseases_Tuberculosis [PATH:ko05152]
 Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko03019]
 Human Diseases_Endocrine and metabolic diseases_Cushing's syndrome [PATH:ko04934]
 Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02022]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02022]
 Metabolism_Enzyme families_Protein kinases [BR:ko01001]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02022]

Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02024]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02024]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02024]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02024]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02024]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Organismal_Endocrine system_Adipocytokine signaling pathway [PATH:ko04920]
Organismal_Endocrine system_PPAR signaling pathway [PATH:ko03320]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Human Diseases_Infectious diseases_Influenza A [PATH:ko05164]
Genetic Information Processing_Transcription_Transcription machinery [BR:ko03021]
Organismal_Endocrine system_Thyroid hormone synthesis [PATH:ko04918]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00020]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Xenobiotics biodegradation and metabolism_Metabolism of xenobiotics by cytochrome P450
Human Diseases_Infectious diseases_Salmonella infection [PATH:ko05132]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Metabolism_Metabolism of other amino acids_Taurine and hypotaurine metabolism [PATH:ko00430]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Organismal_Nervous system_GABAergic synapse [PATH:ko04727]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Metabolism_Metabolism of terpenoids and polyketides_Nonribosomal peptide structures [PATH:ko00010]
Metabolism_Metabolism of terpenoids and polyketides_Polyketide biosynthesis proteins [BR:ko01000]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]

Metabolism_Metabolism of terpenoids and polyketides_Nonribosomal peptide structures [PATH:ko01010]
Metabolism_Metabolism of terpenoids and polyketides_Polyketide biosynthesis proteins [BR:ko01010]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Metabolism_Metabolism of terpenoids and polyketides_Nonribosomal peptide structures [PATH:ko01010]
Metabolism_Metabolism of terpenoids and polyketides_Polyketide biosynthesis proteins [BR:ko01010]
Metabolism_Metabolism of terpenoids and polyketides_Nonribosomal peptide structures [PATH:ko01010]
Metabolism_Metabolism of terpenoids and polyketides_Polyketide biosynthesis proteins [BR:ko01010]
Metabolism_Metabolism of terpenoids and polyketides_Nonribosomal peptide structures [PATH:ko01010]
Metabolism_Metabolism of terpenoids and polyketides_Polyketide biosynthesis proteins [BR:ko01010]
Metabolism_Metabolism of terpenoids and polyketides_Nonribosomal peptide structures [PATH:ko01010]
Metabolism_Metabolism of terpenoids and polyketides_Polyketide biosynthesis proteins [BR:ko01010]
Human Diseases_Endocrine and metabolic diseases_Insulin resistance [PATH:ko04931]
Metabolism_Metabolism of cofactors and vitamins_Retinol metabolism [PATH:ko00830]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Metabolism_Metabolism of terpenoids and polyketides_Carotenoid biosynthesis [PATH:ko00906]
Metabolism_Enzyme families_Cytochrome P450 [BR:ko00199]
Metabolism_Metabolism of terpenoids and polyketides_Carotenoid biosynthesis [PATH:ko00906]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Biosynthesis of other secondary metabolites_Betalain biosynthesis [PATH:ko00965]
Metabolism_Biosynthesis of other secondary metabolites_Streptomycin biosynthesis [PATH:ko00520]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00510]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00350]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Biosynthesis of other secondary metabolites_Isoquinoline alkaloid biosynthesis [PATH:ko00906]
Metabolism_Biosynthesis of other secondary metabolites_Tropane piperidine and pyridine alkaloid biosynthesis [PATH:ko00906]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00510]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
Metabolism_Energy metabolism_Nitrogen metabolism [PATH:ko00910]

Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00098]
Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00098]
Metabolism_Metabolism of terpenoids and polyketides_Insect hormone biosynthesis [PATH:ko00098]
Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00098]
Metabolism_Metabolism of terpenoids and polyketides_Sesquiterpenoid and triterpenoid biosynthesis [PATH:ko00098]
Metabolism_Metabolism of terpenoids and polyketides_Terpenoid backbone biosynthesis [PATH:ko00098]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00051]
Metabolism_Glycan biosynthesis and metabolism_Other glycan degradation [PATH:ko00511]
Metabolism_Enzyme families_Cytochrome P450 [BR:ko00199]
Metabolism_Xenobiotics biodegradation and metabolism_Steroid degradation [PATH:ko00984]
Metabolism_Xenobiotics biodegradation and metabolism_Steroid degradation [PATH:ko00984]
Metabolism_Xenobiotics biodegradation and metabolism_Steroid degradation [PATH:ko00984]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Carbohydrate metabolism_Inositol phosphate metabolism [PATH:ko00562]
Metabolism_Carbohydrate metabolism_Inositol phosphate metabolism [PATH:ko00562]
Metabolism_Xenobiotics biodegradation and metabolism_Steroid degradation [PATH:ko00984]
Metabolism_Enzyme families_Cytochrome P450 [BR:ko00199]
Metabolism_Xenobiotics biodegradation and metabolism_Steroid degradation [PATH:ko00984]
Metabolism_Xenobiotics biodegradation and metabolism_Steroid degradation [PATH:ko00984]
Metabolism_Xenobiotics biodegradation and metabolism_Steroid degradation [PATH:ko00984]
Metabolism_Xenobiotics biodegradation and metabolism_Steroid degradation [PATH:ko00984]
Metabolism_Xenobiotics biodegradation and metabolism_Steroid degradation [PATH:ko00984]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Environmental Information Processing_Signal transduction_NF-kappa B signaling pathway [PATH:ko04131]
Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]

Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Starch and sucrose metabolism [PATH:ko00500]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Xenobiotics biodegradation and metabolism_Styrene degradation [PATH:ko00643]
Cellular Processes_Cellular community - eukaryotes_Tight junction [PATH:ko04530]
Environmental Information Processing_Signal transduction_Hippo signaling pathway [PATH:ko0439]
Environmental Information Processing_Signal transduction_NA
Human Diseases_Cancers_Viral carcinogenesis [PATH:ko05203]
Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00500]
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko00643]
Metabolism_Amino acid metabolism_Phenylalanine tyrosine and tryptophan biosynthesis [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Environmental Information Processing_Signal transduction_P13K-Akt signaling pathway [PATH:ko0439]
Metabolism_Lipid metabolism_Fatty acid elongation [PATH:ko00062]
Environmental Information Processing_Signal transduction_Ras signaling pathway [PATH:ko04014]
Metabolism_Lipid metabolism_alpha-Linolenic acid metabolism [PATH:ko00592]
Metabolism_Lipid metabolism_Arachidonic acid metabolism [PATH:ko00590]
Metabolism_Lipid metabolism_Ether lipid metabolism [PATH:ko00565]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Metabolism_Lipid metabolism_Linoleic acid metabolism [PATH:ko00591]
Organismal_Circulatory system_Vascular smooth muscle contraction [PATH:ko04270]
Organismal_Sensory system_Inflammatory mediator regulation of TRP channels [PATH:ko04750]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Environmental Information Processing_Signal transduction_Hippo signaling pathway - multiple species [PATH:ko0439]
Environmental Information Processing_Signal transduction_NA

Environmental Information Processing_Signaling molecules and interaction_Cell adhesion molecule
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Vibrio cholerae [PATH:ko000000]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Enzyme families_Cytochrome P450 [BR:ko00199]
Metabolism_Metabolism of cofactors and vitamins_Biotin metabolism [PATH:ko00780]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko000000]
Genetic Information Processing_Replication and repair_Fanconi anemia pathway [PATH:ko03460]
Organismal_Digestive system_Protein digestion and absorption [PATH:ko04974]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Lipid metabolism_Ether lipid metabolism [PATH:ko00565]
Metabolism_Biosynthesis of other secondary metabolites_Caffeine metabolism [PATH:ko00232]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Cellular Processes_Cell growth and death_p53 signaling pathway [PATH:ko04115]
Cellular Processes_Cellular community - eukaryotes_Focal adhesion [PATH:ko04510]
Cellular Processes_Transport and catabolism_Phagosome [PATH:ko04145]
Environmental Information Processing_Signal transduction_P13K-Akt signaling pathway [PATH:ko04010]
Environmental Information Processing_Signal transduction_Rap1 signaling pathway [PATH:ko04010]
Environmental Information Processing_Signal transduction_TGF-beta signaling pathway [PATH:ko04010]
Environmental Information Processing_Signaling molecules and interaction_Cell adhesion molecule
Environmental Information Processing_Signaling molecules and interaction_ECM-receptor interaction
Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
Human Diseases_Cancers_Bladder cancer [PATH:ko05219]
Human Diseases_Cancers_MicroRNAs in cancer [PATH:ko05206]
Human Diseases_Cancers_Proteoglycans in cancer [PATH:ko05205]
Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
Human Diseases_Infectious diseases_Malaria [PATH:ko05144]
Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan binding proteins [BR:ko00530]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko000000]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Metabolism_Glycan biosynthesis and metabolism_Other glycan degradation [PATH:ko00511]
Metabolism_Lipid metabolism_Sphingolipid metabolism [PATH:ko00600]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Organismal_Endocrine system_Thyroid hormone synthesis [PATH:ko04918]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
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Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PA
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PA
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Environmental Information Processing_Signal transduction_MAPK signaling pathway - plant [PATH:
Human Diseases_Drug resistance_Platinum drug resistance [PATH:ko01524]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00:
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00

Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00410]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Carbohydrate metabolism_C5-Branched dibasic acid metabolism [PATH:ko00660]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Lipid metabolism_Glycerophospholipid metabolism [PATH:ko00564]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Metabolism_Biosynthesis of other secondary metabolites_Penicillin and cephalosporin biosynthesis
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Cellular Processes_Transport and catabolism_Peroxisome [PATH:ko04146]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Metabolism_Biosynthesis of other secondary metabolites_Phenazine biosynthesis [PATH:ko00405]
Metabolism_Metabolism of terpenoids and polyketides_Polyketide sugar unit biosynthesis [PATH:ko00405]
Metabolism_Enzyme families_Cytochrome P450 [BR:ko00199]
Metabolism_Metabolism of terpenoids and polyketides_Diterpenoid biosynthesis [PATH:ko00904]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Metabolism_Biosynthesis of other secondary metabolites_Phenazine biosynthesis [PATH:ko00405]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00405]
Cellular Processes_Cellular community - eukaryotes_Tight junction [PATH:ko04530]
Environmental Information Processing_Signal transduction_Apelin signaling pathway [PATH:ko04370]
Environmental Information Processing_Signal transduction_cGMP - PKG signaling pathway [PATH:ko04370]
Environmental Information Processing_Signal transduction_Sphingolipid signaling pathway [PATH:ko04370]
Human Diseases_Cancers_MicroRNAs in cancer [PATH:ko05206]
Human Diseases_Endocrine and metabolic diseases_AGE-RAGE signaling pathway in diabetic complications [PATH:ko04931]
Human Diseases_Endocrine and metabolic diseases_Insulin resistance [PATH:ko04931]
Human Diseases_Endocrine and metabolic diseases_Type II diabetes mellitus [PATH:ko04930]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Organismal_Circulatory system_Vascular smooth muscle contraction [PATH:ko04270]
Organismal_Endocrine system_Aldosterone synthesis and secretion [PATH:ko04925]
Organismal_Immune system_Fc gamma R-mediated phagocytosis [PATH:ko04666]
Organismal_Sensory system_Inflammatory mediator regulation of TRP channels [PATH:ko04750]
Metabolism_Metabolism of cofactors and vitamins_Vitamin B6 metabolism [PATH:ko00750]

Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Citrate cycle (TCA cycle) [PATH:ko00020]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]

Genetic Information Processing_Translation_Mitochondrial biogenesis [BR:ko03029]
Organismal_Environmental adaptation_Thermogenesis [PATH:ko04714]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Environmental Information Processing_Signal transduction_cGMP - PKG signaling pathway [PATH:k
Human Diseases_Substance dependence_Morphine addiction [PATH:ko05032]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Organismal_Endocrine system_Aldosterone synthesis and secretion [PATH:ko04925]
Organismal_Sensory system_Olfactory transduction [PATH:ko04740]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosyn
Metabolism_Carbohydrate metabolism_C5-Branched dibasic acid metabolism [PATH:ko00660]
Metabolism_Carbohydrate metabolism_C5-Branched dibasic acid metabolism [PATH:ko00660]
Metabolism_Carbohydrate metabolism_C5-Branched dibasic acid metabolism [PATH:ko00660]
Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko0202
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko0202
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Amino acid metabolism_Phenylalanine metabolism [PATH:ko00360]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Lipid metabolism_Fatty acid biosynthesis [PATH:ko00061]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosyn
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Metabolism_Energy metabolism_Carbon fixation pathways in prokaryotes [PATH:ko00720]
Environmental Information Processing_Signaling molecules and interaction_CD Molecules [BR:ko04
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Lipid metabolism_Arachidonic acid metabolism [PATH:ko00590]
Metabolism_Metabolism of other amino acids_Cyanoamino acid metabolism [PATH:ko00460]
Metabolism_Metabolism of other amino acids_Glutathione metabolism [PATH:ko00480]
Metabolism_Metabolism of other amino acids_Taurine and hypotaurine metabolism [PATH:ko00430]
Metabolism_Metabolism of cofactors and vitamins_Vitamin B6 metabolism [PATH:ko00750]
Metabolism_Metabolism of cofactors and vitamins_Vitamin B6 metabolism [PATH:ko00750]

Metabolism_Metabolism of cofactors and vitamins_Vitamin B6 metabolism [PATH:ko00750]
Metabolism_Metabolism of cofactors and vitamins_Vitamin B6 metabolism [PATH:ko00750]
Metabolism_Metabolism of cofactors and vitamins_Vitamin B6 metabolism [PATH:ko00750]
Metabolism_Metabolism of cofactors and vitamins_Vitamin B6 metabolism [PATH:ko00750]
Metabolism_Metabolism of cofactors and vitamins_Vitamin B6 metabolism [PATH:ko00750]
Environmental Information Processing_Signal transduction_Phosphatidylinositol signaling system [I
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]
Metabolism_Carbohydrate metabolism_Inositol phosphate metabolism [PATH:ko00562]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Amino acid metabolism_Valine leucine and isoleucine degradation [PATH:ko00280]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00!
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
Genetic Information Processing_Translation_RNA degradation [PATH:ko03018]
Metabolism_Xenobiotics biodegradation and metabolism_Steroid degradation [PATH:ko00984]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosyn!
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Lipid metabolism_alpha-Linolenic acid metabolism [PATH:ko00592]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Metabolism_Lipid metabolism_Fatty acid degradation [PATH:ko00071]
Organismal_Environmental adaptation_Plant-pathogen interaction [PATH:ko04626]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Amino acid metabolism_Histidine metabolism [PATH:ko00340]
Metabolism_Amino acid metabolism_Tyrosine metabolism [PATH:ko00350]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00!
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]

Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02020]
Metabolism_Enzyme families_Protein kinases [BR:ko01001]
Metabolism_Metabolism of cofactors and vitamins_Pantothenate and CoA biosynthesis [PATH:ko00040]
Metabolism_Metabolism of other amino acids_beta-Alanine metabolism [PATH:ko00410]
Metabolism_Metabolism of other amino acids_Taurine and hypotaurine metabolism [PATH:ko00430]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko00430]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]
Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Environmental Information Processing_Signal transduction_AMPK signaling pathway [PATH:ko04150]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Organismal_Endocrine system_Glucagon signaling pathway [PATH:ko04922]
Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00030]
Metabolism_Biosynthesis of other secondary metabolites_Penicillin and cephalosporin biosynthesis [PATH:ko00030]
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00030]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00030]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]
Human Diseases_Drug resistance_Cationic antimicrobial peptide (CAMP) resistance [PATH:ko01503]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Metabolism_Metabolism of other amino acids_Taurine and hypotaurine metabolism [PATH:ko00430]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00030]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Metabolism_Enzyme families_Protein phosphatase and associated proteins [BR:ko01009]
Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation proteins [PATH:ko00550]
Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
 Metabolism_Enzyme families_KEGG modules in global maps only
 Metabolism_Enzyme families_KEGG modules in global maps only
 Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
 Metabolism_Metabolism of cofactors and vitamins_Biotin metabolism [PATH:ko00780]
 Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
 Environmental Information Processing_Signal transduction_Ras signaling pathway [PATH:ko04014]
 Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
 Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
 Metabolism_Carbohydrate metabolism_Butanoate metabolism [PATH:ko00650]
 Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
 Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko00640]
 Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
 Cellular Processes_Cellular community - eukaryotes_Focal adhesion [PATH:ko04510]
 Environmental Information Processing_Signal transduction_PI3K-Akt signaling pathway [PATH:ko04370]
 Environmental Information Processing_Signaling molecules and interaction_ECM-receptor interaction [BR:ko04370]
 Human Diseases_Infectious diseases_Human papillomavirus infection [PATH:ko05165]
 Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan binding proteins [BR:ko00531]
 Organismal_Digestive system_Protein digestion and absorption [PATH:ko04974]
 Human Diseases_Endocrine and metabolic diseases_AGE-RAGE signaling pathway in diabetic complications [PATH:ko04610]
 Human Diseases_Infectious diseases_Amoebiasis [PATH:ko05146]
 Metabolism_Glycan biosynthesis and metabolism_Glycosaminoglycan binding proteins [BR:ko00531]
 Organismal_Digestive system_Protein digestion and absorption [PATH:ko04974]
 Organismal_Endocrine system_Relaxin signaling pathway [PATH:ko04926]
 Organismal_Immune system_Platelet activation [PATH:ko04611]
 Metabolism_Metabolism of other amino acids_D-Arginine and D-ornithine metabolism [PATH:ko00400]
 Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
 Metabolism_Metabolism of other amino acids_D-Arginine and D-ornithine metabolism [PATH:ko00400]
 Organismal_Immune system_Complement and coagulation cascades [PATH:ko04610]
 Environmental Information Processing_Signal transduction_MAPK signaling pathway - yeast [PATH:ko04370]
 Environmental Information Processing_Signaling molecules and interaction_CD Molecules [BR:ko04370]
 Metabolism_Glycan biosynthesis and metabolism_Glycosylphosphatidylinositol (GPI)-anchored proteins [BR:ko00531]
 Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:ko00780]
 Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
 Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]
 Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]
 Metabolism_Carbohydrate metabolism_Ascorbate and aldarate metabolism [PATH:ko00053]

Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]

Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]

Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PA

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PA

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00!

Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]

Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PA

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00!

Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]

Environmental Information Processing_Membrane transport_Phosphotransferase system (PTS) [PA

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00!

Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]

Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]

Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]

Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]

Human Diseases_Drug resistance_Antimicrobial resistance genes [BR:ko01504]

Human Diseases_Drug resistance_beta-Lactam resistance [PATH:ko01501]

Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]

Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Metabolism_Metabolism of terpenoids and polyketides_Biosynthesis of enediyne antibiotics [PATH:I

Metabolism_Biosynthesis of other secondary metabolites_Acarbose and validamycin biosynthesis [I

Metabolism_Metabolism of cofactors and vitamins_Nicotinate and nicotinamide metabolism [PATH:I

Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]

Environmental Information Processing_Membrane transport_ABC transporters [PATH:ko02010]

Environmental Information Processing_Membrane transport_Transporters [BR:ko02000]

Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]

Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]

Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]

Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]

Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]

Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]

Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]

Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]

Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]

Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]

Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]

Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]

Environmental Information Processing_Membrane transport_Secretion system [BR:ko02044]

Cellular Processes_Cellular community - prokaryotes_Quorum sensing [PATH:ko02024]

Environmental Information Processing_Signal transduction_MAPK signaling pathway - plant [PATH:

Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00!

Environmental Information Processing_Signal transduction_MAPK signaling pathway - plant [PATH: Metabolism_Enzyme families_Protein kinases [BR:ko01001]

Organismal_Immune system_Toll and Imd signaling pathway [PATH:ko04624]

Environmental Information Processing_Signal transduction_MAPK signaling pathway - plant [PATH: Metabolism_Enzyme families_Protein kinases [BR:ko01001]

Environmental Information Processing_Signal transduction_MAPK signaling pathway - plant [PATH: Metabolism_Enzyme families_Protein kinases [BR:ko01001]

Metabolism_Glycan biosynthesis and metabolism_Other glycan degradation [PATH:ko00511]

Metabolism_Glycan biosynthesis and metabolism_Various types of N-glycan biosynthesis [PATH:ko00511]

Organismal_Endocrine system_Thyroid hormone synthesis [PATH:ko04918]

Metabolism_Amino acid metabolism_Tryptophan metabolism [PATH:ko00380]

Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko00643]

Metabolism_Xenobiotics biodegradation and metabolism_Fluorobenzoate degradation [PATH:ko00643]

Metabolism_Xenobiotics biodegradation and metabolism_Styrene degradation [PATH:ko00643]

Metabolism_Metabolism of cofactors and vitamins_Ubiquinone and other terpenoid-quinone biosynthesis [PATH:ko00643]

Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]

Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR:ko00740]

Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]

Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]

Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]

Genetic Information Processing_Replication and repair_Chromosome and associated proteins [BR:ko00740]

Metabolism_Enzyme families_Protein kinases [BR:ko01001]

Organismal_Immune system_NOD-like receptor signaling pathway [PATH:ko04621]

Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]

Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]

Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]

Metabolism_Biosynthesis of other secondary metabolites_Phenazine biosynthesis [PATH:ko00405]

Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa [BR:ko03000]

Genetic Information Processing_Transcription_Transcription factors [BR:ko03000]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa [BR:ko03000]

Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]

Metabolism_Enzyme families_Protein kinases [BR:ko01001]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa [BR:ko03000]

Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]

Metabolism_Enzyme families_Protein kinases [BR:ko01001]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa [BR:ko03000]

Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]

Metabolism_Enzyme families_Protein kinases [BR:ko01001]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa [BR:ko03000]

Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]

Metabolism_Enzyme families_Protein kinases [BR:ko01001]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa [BR:ko03000]

Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]

Metabolism_Enzyme families_Protein kinases [BR:ko01001]

Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa [BR:ko03000]

Environmental Information Processing_Signal transduction_Two-component system [BR:ko02022]
Environmental Information Processing_Signal transduction_Two-component system [PATH:ko02021]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
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Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Pseudomonas aeruginosa
Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Metabolism of cofactors and vitamins_Riboflavin metabolism [PATH:ko00740]
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Pentose phosphate pathway [PATH:ko00030]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko00001]
Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko00001]
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Cellular Processes_Cellular community - prokaryotes_Biofilm formation - Escherichia coli [PATH:ko00001]
Metabolism_Biosynthesis of other secondary metabolites_Phenazine biosynthesis [PATH:ko00405]
Genetic Information Processing_Translation_Membrane trafficking [BR:ko04131]
Organismal_Immune system_IL-17 signaling pathway [PATH:ko04657]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
Genetic Information Processing_Translation_Sulfur relay system [PATH:ko04122]
Metabolism_Metabolism of cofactors and vitamins_Thiamine metabolism [PATH:ko00730]
Human Diseases_Infectious diseases_Tuberculosis [PATH:ko05152]
Metabolism_Carbohydrate metabolism_Inositol phosphate metabolism [PATH:ko00562]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Glycan biosynthesis and metabolism_Lipopolysaccharide biosynthesis [PATH:ko00540]

Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Lipid metabolism_Glycerolipid metabolism [PATH:ko00561]
Metabolism_Glycan biosynthesis and metabolism_Glycosyltransferases [BR:ko01003]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation prot
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation prot
Metabolism_Enzyme families_Peptidases [BR:ko01002]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis [PATH:ko00550]
Metabolism_Glycan biosynthesis and metabolism_Peptidoglycan biosynthesis and degradation prot
Metabolism_Xenobiotics biodegradation and metabolism_Chlorocyclohexane and chlorobenzene de
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Lysine degradation [PATH:ko00310]
Metabolism_Metabolism of other amino acids_D-Arginine and D-ornithine metabolism [PATH:ko004
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00!
Metabolism_Xenobiotics biodegradation and metabolism_Aminobenzoate degradation [PATH:ko006
Metabolism_Carbohydrate metabolism_Fructose and mannose metabolism [PATH:ko00051]
Genetic Information Processing_Replication and repair_Base excision repair [PATH:ko03410]
Genetic Information Processing_Replication and repair_DNA repair and recombination proteins [BR
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko
Metabolism_Nucleotide metabolism_Purine metabolism [PATH:ko00230]
Metabolism_Nucleotide metabolism_Pyrimidine metabolism [PATH:ko00240]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Metabolism_Carbohydrate metabolism_Glyoxylate and dicarboxylate metabolism [PATH:ko00630]
Human Diseases_Cancers_Hepatocellular carcinoma [PATH:ko05225]
Human Diseases_Cancers_Pathways in cancer [PATH:ko05200]
Metabolism_Metabolism of other amino acids_Selenocompound metabolism [PATH:ko00450]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Amino acid metabolism_Cysteine and methionine metabolism [PATH:ko00270]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Carbohydrate metabolism_Galactose metabolism [PATH:ko00052]
Metabolism_Carbohydrate metabolism_Glycolysis / Gluconeogenesis [PATH:ko00010]
Metabolism_Carbohydrate metabolism_Propanoate metabolism [PATH:ko00640]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Lipid metabolism_Lipid biosynthesis proteins [BR:ko01004]
Metabolism_Carbohydrate metabolism_Inositol phosphate metabolism [PATH:ko00562]
Metabolism_Xenobiotics biodegradation and metabolism_Benzoate degradation [PATH:ko00362]
Metabolism_Carbohydrate metabolism_Amino sugar and nucleotide sugar metabolism [PATH:ko00!
Metabolism_Amino acid metabolism_Glycine serine and threonine metabolism [PATH:ko00260]

Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Unclassified_Metabolism_Glycan biosynthesis and metabolism
Genetic Information Processing_Replication and repair_DNA replication [PATH:ko03030]
Genetic Information Processing_Replication and repair_DNA replication proteins [BR:ko03032]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00001]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00001]
Metabolism_Carbohydrate metabolism_Pyruvate metabolism [PATH:ko00620]
Metabolism_Lipid metabolism_Ether lipid metabolism [PATH:ko00565]
Metabolism_Metabolism of cofactors and vitamins_Folate biosynthesis [PATH:ko00790]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Carbohydrate metabolism_Pentose and glucuronate interconversions [PATH:ko00040]
Metabolism_Amino acid metabolism_Alanine aspartate and glutamate metabolism [PATH:ko00250]
Genetic Information Processing_Translation_Messenger RNA Biogenesis [BR:ko03019]
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Metabolism_Energy metabolism_Oxidative phosphorylation [PATH:ko00190]
Metabolism_Energy metabolism_Sulfur metabolism [PATH:ko00920]
Metabolism_Amino acid metabolism_Arginine biosynthesis [PATH:ko00220]
Genetic Information Processing_Translation_Aminoacyl-tRNA biosynthesis [PATH:ko00970]
Genetic Information Processing_Translation_Transfer RNA biogenesis [BR:ko03016]
Metabolism_Amino acid metabolism_Amino acid related enzymes [BR:ko01007]
Metabolism_Energy metabolism_Methane metabolism [PATH:ko00680]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Amino acid metabolism_Arginine and proline metabolism [PATH:ko00330]
Metabolism_Metabolism of cofactors and vitamins_Porphyrin and chlorophyll metabolism [PATH:ko00001]
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