|  |  |  |
| --- | --- | --- |
| Pathway Name | Pathway Class | Primary Function |
| P221-PWY | Utilization/Assimilation - Other | Utilization/Assimilation - Other |
| P23-PWY | C1 Compound Utilization and Assimilation | CO2 Fixation |
| P42-PWY | C1 Compound Utilization and Assimilation | CO2 Fixation |
| PWY0-1533 | Inorganic Nutrient Metabolism | Phosphorus Compound Metabolism |
| PWY-1861 | C1 Compound Utilization and Assimilation | Formaldehyde Assimilation |
| PWY490-3 | Inorganic Nutrient Metabolism | Nitrogen Compound Metabolism |
| PWY-4984 | Inorganic Nutrient Metabolism | Nitrogen Compound Metabolism |
| PWY-5304 | Inorganic Nutrient Metabolism | Sulfur Compound Metabolism |
| RUMP-PWY | C1 Compound Utilization and Assimilation | Formaldehyde Oxidation |
| SO4ASSIM-PWY | Inorganic Nutrient Metabolism | Sulfur Compound Metabolism |
| SULFATE-CYS-PWY | Inorganic Nutrient Metabolism | Sulfur Compound Metabolism |

Utilization and Assimilation Pathways

|  |  |  |
| --- | --- | --- |
| Pathway Name | Pathway Class | Pathway Function |
| ALL-CHORISMATE-PWY | Superpathway of chorismate metabolism | superpathway of chorismate metabolism |
| FUC-RHAMCAT-PWY | Superpathway of fucose and rhamnose degradation | superpathway of fucose and rhamnose degradation |
| GALACT-GLUCUROCAT-PWY | Superpathway of hexuronide and hexuronate degradation | superpathway of hexuronide and hexuronate degradation |
| GLUCARGALACTSUPER-PWY | Superpathway of D-glucarate and D-galactarate degradation | superpathway of D-glucarate and D-galactarate degradation |
| GLYCOLYSIS-E-D | Superpathway of glycolysis and the Entner-Doudoroff pathway | superpathway of glycolysis and the Entner-Doudoroff pathway |
| GLYCOLYSIS-TCA-GLYOX-BYPASS | Superpathway of glycolysis pyruvate dehydrogenase TCA and glyoxylate bypass | superpathway of glycolysis pyruvate dehydrogenase TCA and glyoxylate bypass |
| MET-SAM-PWY | Superpathway of S-adenosyl-L-methionine biosynthesis | S-adenosyl-L-methionine biosynthesis |
| PRPP-PWY | Superpathway of histidine purine and pyrimidine biosynthesis | superpathway of histidine purine and pyrimidine biosynthesis |
| PWY0-781 | Aspartate superpathway | aspartate superpathway |

Superpathways

|  |  |  |
| --- | --- | --- |
| Pathway Name | Pathway Class | Primary Function |
| ANAEROFRUCAT-PWY | Fermentation | Fermentation to Short-Chain Fatty Acids |
| ANAGLYCOLYSIS-PWY | Glycolysis | Glycolysis |
| CENTFERM-PWY | Fermentation | Fermentation of Pyruvate |
| FERMENTATION-PWY | Fermentation | Fermentation of Pyruvate |
| GLYCOLYSIS | Glycolysis | Glycolysis |
| GLYOXYLATE-BYPASS | Glyoxylate cycle | glyoxylate cycle |
| NONOXIPENT-PWY | Pentose Phosphate Pathways | Pentose Phosphate Pathways |
| P105-PWY | TCA cycle | TCA cycle |
| P108-PWY | Fermentation | Fermentation to Short-Chain Fatty Acids |
| P122-PWY | Fermentation | Fermentation of Pyruvate |
| P125-PWY | Fermentation | Fermentation to Alcohols |
| P161-PWY | Fermentation | Fermentation of Pyruvate |
| PENTOSE-P-PWY | Pentose Phosphate Pathways | Pentose Phosphate Pathways |
| PWY-3781 | Respiration | Aerobic Respiration |
| PWY-5022 | Fermentation | Fermentation to Short-Chain Fatty Acids |
| PWY-5100 | Fermentation | Fermentation of Pyruvate |
| PWY-5484 | Glycolysis | Glycolysis |
| PWY-5677 | Fermentation | Fermentation to Short-Chain Fatty Acids |
| PWY-5913 | TCA cycle | TCA cycle |
| PWY-6396 | Fermentation | Fermentation to Alcohols |
| PWY-6588 | Fermentation | Fermentation of Pyruvate |
| PWY-6590 | Fermentation | Fermentation of Pyruvate |
| PWY-6876 | Engineered Biosynthesis | isopropanol biosynthesis (engineered) |
| PWY-6969 | TCA cycle | TCA cycle |
| PWY-7111 | Fermentation | Fermentation to Alcohols |
| PWY-7254 | TCA cycle | TCA cycle |
| REDCITCYC | TCA cycle | TCA cycle |
| TCA | TCA cycle | TCA cycle |
| TCA-GLYOX-BYPASS | TCA cycle | TCA cycle |
| PWY0-1479 | Nucleic Acid Processing | Nucleic Acid Processing |
| PWY-6700 | Nucleic Acid Processing | Nucleic Acid Processing |

Precursor metabolites, energy, and macromolecule modification

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| --- | --- | --- |
| Pathway Name | Pathway Class | Primary Function |
| 1CMET2-PWY | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| AEROBACTINSYN-PWY | Secondary Metabolite Biosynthesis | Siderophore Biosynthesis |
| ARG+POLYAMINE-SYN | Amine and Polyamine Biosynthesis | Amine and Polyamine Biosynthesis |
| ARGSYNBSUB-PWY | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| ARGSYN-PWY | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| ARO-PWY | Aromatic Compound Biosynthesis | Chorismate Biosynthesis |
| ASPASN-PWY | Amino Acid Biosynthesis | Amino Acid Biosynthesis |
| BIOTIN-BIOSYNTHESIS-PWY | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| BRANCHED-CHAIN-AA-SYN-PWY | Amino Acid Biosynthesis | Amino Acid Biosynthesis |
| CALVIN-PWY | Carbohydrate Biosynthesis | Sugar Biosynthesis |
| COA-PWY | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Coenzyme A Biosynthesis |
| COBALSYN-PWY | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| COLANSYN-PWY | Carbohydrate Biosynthesis | Carbohydrate Biosynthesis |
| COMPLETE-ARO-PWY | Amino Acid Biosynthesis | Amino Acid Biosynthesis |
| DAPLYSINESYN-PWY | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| DENOVOPURINE2-PWY | Nucleoside and Nucleotide Biosynthesis | Purine Nucleotide Biosynthesis |
| DTDPRHAMSYN-PWY | Carbohydrate Biosynthesis | Sugar Biosynthesis |
| ECASYN-PWY | Cell Structure Biosynthesis | Lipopolysaccharide Biosynthesis |
| ENTBACSYN-PWY | Secondary Metabolite Biosynthesis | Siderophore Biosynthesis |
| FASYN-ELONG-PWY | Fatty Acid and Lipid Biosynthesis | Fatty Acid Biosynthesis |
| FASYN-INITIAL-PWY | Fatty Acid and Lipid Biosynthesis | Fatty Acid Biosynthesis |
| FOLSYN-PWY | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| GLUCONEO-PWY | Carbohydrate Biosynthesis | Sugar Biosynthesis |
| GLUTORN-PWY | Amino Acid Biosynthesis | Other Amino Acid Biosynthesis |
| GLYCOGENSYNTH-PWY | Carbohydrate Biosynthesis | Glycan Biosynthesis |
| HEME-BIOSYNTHESIS-II | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Porphyrin Compound Biosynthesis |
| HEMESYN2-PWY | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Porphyrin Compound Biosynthesis |
| HISTSYN-PWY | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| HOMOSER-METSYN-PWY | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| HSERMETANA-PWY | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| ILEUSYN-PWY | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| KDO-NAGLIPASYN-PWY | Cell Structure Biosynthesis | Lipopolysaccharide Biosynthesis |
| NAD-BIOSYNTHESIS-II | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | NAD Metabolism |
| NADSYN-PWY | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | NAD Metabolism |
| NAGLIPASYN-PWY | Cell Structure Biosynthesis | Lipopolysaccharide Biosynthesis |
| NONMEVIPP-PWY | Secondary Metabolite Biosynthesis | Terpenoid Biosynthesis |
| OANTIGEN-PWY | Carbohydrate Biosynthesis | Sugar Biosynthesis |
| P4-PWY | Amino Acid Biosynthesis | Amino Acid Biosynthesis |
| PANTO-PWY | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| PANTOSYN-PWY | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Coenzyme A Biosynthesis |
| PEPTIDOGLYCANSYN-PWY | Cell Structure Biosynthesis | Cell Wall Biosynthesis |
| PHOSLIPSYN-PWY | Fatty Acid and Lipid Biosynthesis | Phospholipid Biosynthesis |
| POLYAMINSYN3-PWY | Amine and Polyamine Biosynthesis | Amine and Polyamine Biosynthesis |
| POLYAMSYN-PWY | Amine and Polyamine Biosynthesis | Amine and Polyamine Biosynthesis |
| POLYISOPRENSYN-PWY | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Polyprenyl Biosynthesis |
| PPGPPMET-PWY | Metabolic Regulator Biosynthesis | Metabolic Regulator Biosynthesis |
| PWY0-1061 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY0-1241 | Carbohydrate Biosynthesis | Sugar Biosynthesis |
| PWY0-1319 | Fatty Acid and Lipid Biosynthesis | Phospholipid Biosynthesis |
| PWY0-1338 | Cell Structure Biosynthesis | Lipopolysaccharide Biosynthesis |
| PWY0-1415 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Porphyrin Compound Biosynthesis |
| PWY0-1586 | Cell Structure Biosynthesis | Cell Wall Biosynthesis |
| PWY0-162 | Nucleoside and Nucleotide Biosynthesis | Pyrimidine Nucleotide Biosynthesis |
| PWY0-166 | Nucleoside and Nucleotide Biosynthesis | 2'-Deoxyribonucleotide Biosynthesis |
| PWY0-845 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| PWY0-862 | Fatty Acid and Lipid Biosynthesis | Fatty Acid Biosynthesis |
| PWY-1269 | Carbohydrate Biosynthesis | Sugar Biosynthesis |
| PWY-2941 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-2942 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-3001 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-4361 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY4FS-7 | Fatty Acid and Lipid Biosynthesis | Phospholipid Biosynthesis |
| PWY4FS-8 | Fatty Acid and Lipid Biosynthesis | Phospholipid Biosynthesis |
| PWY-5097 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-5101 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-5103 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-5104 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-5121 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Polyprenyl Biosynthesis |
| PWY-5154 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-5188 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Tetrapyrrole Biosynthesis |
| PWY-5189 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Tetrapyrrole Biosynthesis |
| PWY-5345 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-5347 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-5505 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-5509 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| PWY-5659 | Carbohydrate Biosynthesis | Sugar Biosynthesis |
| PWY-5667 | Fatty Acid and Lipid Biosynthesis | Phospholipid Biosynthesis |
| PWY-5686 | Nucleoside and Nucleotide Biosynthesis | Pyrimidine Nucleotide Biosynthesis |
| PWY-5837 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-5838 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-5840 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-5845 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-5850 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-5855 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-5856 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-5857 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-5860 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-5861 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-5862 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-5863 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-5896 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-5897 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-5898 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-5899 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-5918 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Porphyrin Compound Biosynthesis |
| PWY-5920 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Porphyrin Compound Biosynthesis |
| PWY-5973 | Fatty Acid and Lipid Biosynthesis | Fatty Acid Biosynthesis |
| PWY-5989 | Fatty Acid and Lipid Biosynthesis | Fatty Acid Biosynthesis |
| PWY-6121 | Nucleoside and Nucleotide Biosynthesis | Purine Nucleotide Biosynthesis |
| PWY-6122 | Nucleoside and Nucleotide Biosynthesis | Purine Nucleotide Biosynthesis |
| PWY-6123 | Nucleoside and Nucleotide Biosynthesis | Purine Nucleotide Biosynthesis |
| PWY-6125 | Nucleoside and Nucleotide Biosynthesis | Purine Nucleotide Biosynthesis |
| PWY-6126 | Nucleoside and Nucleotide Biosynthesis | Purine Nucleotide Biosynthesis |
| PWY-6147 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| PWY-6151 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-6163 | Aromatic Compound Biosynthesis | Chorismate Biosynthesis |
| PWY-6263 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-6269 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| PWY-6277 | Nucleoside and Nucleotide Biosynthesis | Purine Nucleotide Biosynthesis |
| PWY-6282 | Fatty Acid and Lipid Biosynthesis | Fatty Acid Biosynthesis |
| PWY-6385 | Cell Structure Biosynthesis | Cell Wall Biosynthesis |
| PWY-6386 | Cell Structure Biosynthesis | Cell Wall Biosynthesis |
| PWY-6387 | Cell Structure Biosynthesis | Cell Wall Biosynthesis |
| PWY-6467 | Cell Structure Biosynthesis | Lipopolysaccharide Biosynthesis |
| PWY-6470 | Cell Structure Biosynthesis | Cell Wall Biosynthesis |
| PWY-6471 | Cell Structure Biosynthesis | Cell Wall Biosynthesis |
| PWY-6478 | Carbohydrate Biosynthesis | Sugar Biosynthesis |
| PWY-6519 | Other Biosynthesis | 8-Amino-7-oxononanoate Biosynthesis |
| PWY-6545 | Nucleoside and Nucleotide Biosynthesis | 2'-Deoxyribonucleotide Biosynthesis |
| PWY-6562 | Amine and Polyamine Biosynthesis | Amine and Polyamine Biosynthesis |
| PWY-6609 | Nucleoside and Nucleotide Biosynthesis | Purine Nucleotide Biosynthesis |
| PWY-6612 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| PWY-6628 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-6629 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-6630 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-6703 | Secondary Metabolite Biosynthesis | Secondary Metabolite Biosynthesis |
| PWY-6708 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-6749 | Carbohydrate Biosynthesis | Sugar Biosynthesis |
| PWY-6891 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| PWY-6892 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| PWY-6895 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| PWY-6897 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| PWY-7090 | Carbohydrate Biosynthesis | Sugar Biosynthesis |
| PWY-7094 | Fatty Acid and Lipid Biosynthesis | Fatty Acid Biosynthesis |
| PWY-7184 | Nucleoside and Nucleotide Biosynthesis | 2'-Deoxyribonucleotide Biosynthesis |
| PWY-7187 | Nucleoside and Nucleotide Biosynthesis | 2'-Deoxyribonucleotide Biosynthesis |
| PWY-7196 | Nucleoside and Nucleotide Biosynthesis | Pyrimidine Nucleotide Biosynthesis |
| PWY-7197 | Nucleoside and Nucleotide Biosynthesis | Pyrimidine Nucleotide Biosynthesis |
| PWY-7199 | Nucleoside and Nucleotide Biosynthesis | Pyrimidine Nucleotide Biosynthesis |
| PWY-7200 | Nucleoside and Nucleotide Biosynthesis | Pyrimidine Nucleotide Biosynthesis |
| PWY-7208 | Nucleoside and Nucleotide Biosynthesis | Pyrimidine Nucleotide Biosynthesis |
| PWY-7211 | Nucleoside and Nucleotide Biosynthesis | 2'-Deoxyribonucleotide Biosynthesis |
| PWY-7219 | Nucleoside and Nucleotide Biosynthesis | Purine Nucleotide Biosynthesis |
| PWY-7220 | Nucleoside and Nucleotide Biosynthesis | 2'-Deoxyribonucleotide Biosynthesis |
| PWY-7221 | Nucleoside and Nucleotide Biosynthesis | Purine Nucleotide Biosynthesis |
| PWY-7222 | Nucleoside and Nucleotide Biosynthesis | 2'-Deoxyribonucleotide Biosynthesis |
| PWY-7228 | Nucleoside and Nucleotide Biosynthesis | Purine Nucleotide Biosynthesis |
| PWY-7229 | Nucleoside and Nucleotide Biosynthesis | Purine Nucleotide Biosynthesis |
| PWY-7234 | Nucleoside and Nucleotide Biosynthesis | Purine Nucleotide Biosynthesis |
| PWY-7315 | Carbohydrate Biosynthesis | Sugar Biosynthesis |
| PWY-7323 | Carbohydrate Biosynthesis | Sugar Biosynthesis |
| PWY-7328 | Carbohydrate Biosynthesis | Sugar Biosynthesis |
| PWY-7332 | Carbohydrate Biosynthesis | Sugar Biosynthesis |
| PWY-7371 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| PWY-7392 | Secondary Metabolite Biosynthesis | Terpenoid Biosynthesis |
| PWY-7400 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-7527 | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| PWY-7539 | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| PWY-7560 | Secondary Metabolite Biosynthesis | Terpenoid Biosynthesis |
| PWY-7663 | Fatty Acid and Lipid Biosynthesis | Fatty Acid Biosynthesis |
| PWY-7664 | Fatty Acid and Lipid Biosynthesis | Fatty Acid Biosynthesis |
| PWY-841 | Nucleoside and Nucleotide Biosynthesis | Purine Nucleotide Biosynthesis |
| PWYG-321 | Fatty Acid and Lipid Biosynthesis | Fatty Acid Biosynthesis |
| PYRIDNUCSAL-PWY | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | NAD Metabolism |
| PYRIDNUCSYN-PWY | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | NAD Metabolism |
| PYRIDOXSYN-PWY | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| RIBOSYN2-PWY | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| SER-GLYSYN-PWY | Amino Acid Biosynthesis | Amino Acid Biosynthesis |
| THISYN-PWY | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Vitamin Biosynthesis |
| THRESYN-PWY | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| TRNA-CHARGING-PWY | Aminoacyl-tRNA Charging | Aminoacyl-tRNA Charging |
| TRPSYN-PWY | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |
| UBISYN-PWY | Cofactor Prosthetic Group Electron Carrier and Vitamin Biosynthesis | Quinol and Quinone Biosynthesis |
| UDPNAGSYN-PWY | Carbohydrate Biosynthesis | Sugar Biosynthesis |
| VALSYN-PWY | Amino Acid Biosynthesis | Proteinogenic Amino Acid Biosynthesis |