

Pathway Reconstruction Result for the Supergroups

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Metabolism

Global and overview maps

- 01100 [Metabolic pathways](#) (5)

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- 01110 [Biosynthesis of secondary metabolites](#) (3)

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- 01120 [Microbial metabolism in diverse environments](#) (1)

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- 01130 [Biosynthesis of antibiotics](#) (2)

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- 01200 [Carbon metabolism](#) (1)

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- 01212 [Fatty acid metabolism](#) (1)

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- 01230 [Biosynthesis of amino acids](#) (3)

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- 00190 [Oxidative phosphorylation](#) (1)

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- 00920 [Sulfur metabolism](#) (1)

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Lipid metabolism

- 00062 [Fatty acid elongation](#) (1)

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- 00140 [Steroid hormone biosynthesis](#) (1)

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- 01040 [Biosynthesis of unsaturated fatty acids](#) (1)

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Amino acid metabolism

- 00260 [Glycine, serine and threonine metabolism](#) (1)

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- 00270 [Cysteine and methionine metabolism](#) (4)

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- 00340 [Histidine metabolism](#) (1)

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Metabolism of other amino acids

- 00450 [Selenocompound metabolism](#) (2)

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- 00730 [Thiamine metabolism](#) (1)

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Genetic Information Processing

Translation

- 03010 [Ribosome](#) (2)

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- 03015 [mRNA surveillance pathway](#) (2)

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Folding, sorting and degradation

- 04141 [Protein processing in endoplasmic reticulum](#) (3)

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- 04120 [Ubiquitin mediated proteolysis](#) (8)

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- 04122 [Sulfur relay system](#) (2)

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Environmental Information Processing

Signal transduction

- 04014 Ras signaling pathway (2)

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- 04015 Rap1 signaling pathway (1)

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- 04010 MAPK signaling pathway (1)

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- 04013 MAPK signaling pathway - fly (2)

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- 04011 MAPK signaling pathway - yeast (2)

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- 04012 ErbB signaling pathway (2)

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- 04310 Wnt signaling pathway (1)

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- 04340 Hedgehog signaling pathway (1)

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- 04341 Hedgehog signaling pathway - fly (1)

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- 04350 TGF-beta signaling pathway (2)

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- 04390 Hippo signaling pathway (3)

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- 04391 Hippo signaling pathway - fly (1)

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- 04370 VEGF signaling pathway (1)

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- 04371 Apelin signaling pathway (1)

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- 04668 TNF signaling pathway (1)

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- 04066 HIF-1 signaling pathway (1)

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- 04068 FoxO signaling pathway (3)

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- 04072 Phospholipase D signaling pathway (1)

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- 04071 [Sphingolipid signaling pathway](#) (2)

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- 04024 [cAMP signaling pathway](#) (2)

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- 04022 [cGMP-PKG signaling pathway](#) (2)

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- 04151 [PI3K-Akt signaling pathway](#) (4)

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- 04152 [AMPK signaling pathway](#) (2)

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- 04150 [mTOR signaling pathway](#) (2)

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Cellular Processes

Transport and catabolism

- 04144 [Endocytosis](#) (3)

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- 04145 [Phagosome](#) (1)

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- 04140 [Autophagy - animal](#) (2)

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- 04138 [Autophagy - yeast](#) (2)

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- 04136 [Autophagy - other](#) (1)

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Cell growth and death

- 04110 [Cell cycle](#) (2)

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- 04111 [Cell cycle - yeast](#) (2)

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- 04113 [Meiosis - yeast](#) (3)

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- 04114 [Oocyte meiosis](#) (5)

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- 04210 Apoptosis (1)

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- 04214 Apoptosis - fly (1)

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- 04115 p53 signaling pathway (1)

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- 04218 Cellular senescence (3)

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Cellular community - eukaryotes

- 04510 Focal adhesion (3)

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- 04520 Adherens junction (1)

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- 04530 Tight junction (1)

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- 04540 Gap junction (1)

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- 04550 Signaling pathways regulating pluripotency of stem cells (2)

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Cell motility

- 04810 Regulation of actin cytoskeleton (2)

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Organismal Systems

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- 04611 Platelet activation (2)

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- 04620 Toll-like receptor signaling pathway (1)

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- 04621 NOD-like receptor signaling pathway (1)

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- 04650 Natural killer cell mediated cytotoxicity (1)

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- 04660 T cell receptor signaling pathway (2)

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- 04658 Th1 and Th2 cell differentiation (1)

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- 04659 Th17 cell differentiation (1)

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- 04657 IL-17 signaling pathway (2)

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- 04662 B cell receptor signaling pathway (2)

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- 04664 Fc epsilon RI signaling pathway (1)

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- 04666 Fc gamma R-mediated phagocytosis (1)

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- 04062 Chemokine signaling pathway (2)

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- 04910 Insulin signaling pathway (3)

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- 04922 Glucagon signaling pathway (2)

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- 04912 GnRH signaling pathway (1)

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- 04915 Estrogen signaling pathway (1)

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- 04914 Progesterone-mediated oocyte maturation (3)

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- 04917 Prolactin signaling pathway (2)

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- 04921 Oxytocin signaling pathway (2)

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- 04919 Thyroid hormone signaling pathway (2)

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- 04916 Melanogenesis (2)

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Circulatory system

- 04261 Adrenergic signaling in cardiomyocytes (3)

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- 04270 Vascular smooth muscle contraction (2)

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- 04972 Pancreatic secretion (1)

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- 04977 Vitamin digestion and absorption (1)

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- 04978 Mineral absorption (1)

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- 04962 Vasopressin-regulated water reabsorption (2)

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- 04960 Aldosterone-regulated sodium reabsorption (1)

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- 04961 Endocrine and other factor-regulated calcium reabsorption (1)

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- 04724 Glutamatergic synapse (1)

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- 04725 Cholinergic synapse (1)

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- 04728 Dopaminergic synapse (3)

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- 04726 Serotonergic synapse (1)

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- 04720 Long-term potentiation (2)

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- 04730 Long-term depression (2)

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- 04723 [Retrograde endocannabinoid signaling](#) (1)

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- 04722 [Neurotrophin signaling pathway](#) (2)

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- 04750 [Inflammatory mediator regulation of TRP channels](#) (1)

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- 04320 [Dorso-ventral axis formation](#) (1)

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- 04360 [Axon guidance](#) (2)

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- 04380 [Osteoclast differentiation](#) (1)

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- 04713 [Circadian entrainment](#) (1)

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- 04711 [Circadian rhythm - fly](#) (1)

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Human Diseases

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- 05200 [Pathways in cancer](#) (3)
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- 05230 [Central carbon metabolism in cancer](#) (1)
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- 05231 [Choline metabolism in cancer](#) (1)
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- 05205 [Proteoglycans in cancer](#) (2)
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- 05203 [Viral carcinogenesis](#) (3)
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- 05212 [Pancreatic cancer](#) (1)
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- 05214 [Glioma](#) (1)
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- 05216 [Thyroid cancer](#) (1)
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- 05221 [Acute myeloid leukemia](#) (1)
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- 05220 [Chronic myeloid leukemia](#) (1)
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- 05217 [Basal cell carcinoma](#) (1)
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- 05218 [Melanoma](#) (1)
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- 05222 [Small cell lung cancer](#) (1)
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- 05223 [Non-small cell lung cancer](#) (1)

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- 05012 [Parkinson's disease](#) (3)

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- 05014 [Amyotrophic lateral sclerosis \(ALS\)](#) (1)

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- 05020 [Prion diseases](#) (1)

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- 05034 [Alcoholism](#) (3)

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- 04932 [Non-alcoholic fatty liver disease \(NAFLD\)](#) (1)
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- 04931 [Insulin resistance](#) (2)
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- 04933 [AGE-RAGE signaling pathway in diabetic complications](#) (1)
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- 05132 [Salmonella infection](#) (1)
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- 05162 Measles (2)

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- 05164 Influenza A (2)

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- 05161 Hepatitis B (2)

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- 05168 Herpes simplex infection (2)

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- 05167 Kaposi's sarcoma-associated herpesvirus infection (2)

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- 05169 Epstein-Barr virus infection (2)

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- 05140 [Leishmaniasis](#) (1)

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- 05142 [Chagas disease \(American trypanosomiasis\)](#) (2)

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- 01524 [Platinum drug resistance](#) (1)

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- 01522 [Endocrine resistance](#) (1)

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