|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **KO Number** | **Kegg pathways** | **Kegg slim** | **Total** | **DE** | **p** | **log2 p** | **Tissue** |
| path:sasa04080 | Neuroactive ligand-receptor interaction | Signaling molecules and interaction | 175 | 14  | 1.76E-07 | 15.6 | Stomach |
| path:sasa04020 | Calcium signaling pathway | Signal transduction | 265 | 15  | 5.18E-06 | 12.2 | Stomach |
| path:sasa04270 | Vascular smooth muscle contraction | Circulatory system | 207 | 12  | 3.82E-05 | 10.2 | Stomach |
| path:sasa00590 | Arachidonic acid metabolism | Lipid metabolism | 66 | 5  | 2.46E-03 | 6.0 | Stomach |
| path:sasa00010 | Glycolysis / Gluconeogenesis | Carbohydrate metabolism | 108 | 6  | 4.43E-03 | 5.4 | Stomach |
| path:sasa00100 | Steroid biosynthesis | Lipid metabolism | 24 | 3  | 4.64E-03 | 5.4 | Stomach |
| path:sasa00330 | Arginine and proline metabolism | Amino acid metabolism | 84 | 5  | 6.94E-03 | 5.0 | Stomach |
| path:sasa04920 | Adipocytokine signaling pathway | Endocrine system | 140 | 6 | 1.50E-02 | 4.2 | Stomach |
| path:sasa04261 | Adrenergic signaling in cardiomyocytes | Circulatory system | 271 | 9  | 1.55E-02 | 4.2 | Stomach |
| path:sasa04510 | Focal adhesion | Cellular community - eukaryotes | 431 | 12  | 2.02E-02 | 3.9 | Stomach |
| path:sasa00591 | Linoleic acid metabolism | Lipid metabolism | 17 | 2  | 2.40E-02 | 3.7 | Stomach |
| path:sasa00030 | Pentose phosphate pathway | Carbohydrate metabolism | 52 | 3  | 3.80E-02 | 3.3 | Stomach |
| path:sasa00592 | alpha-Linolenic acid metabolism | Lipid metabolism | 23 | 2  | 4.22E-02 | 3.2 | Stomach |
| path:sasa04810 | Regulation of actin cytoskeleton | Cell motility | 435 | 11  | 4.67E-02 | 3.1 | Stomach |
| path:sasa00100 | Steroid biosynthesis | Lipid metabolism | 26 | 19 | 9.30E-16 | 34.6 | Pyloric caeca |
| path:sasa04080 | Neuroactive ligand-receptor interaction | Signaling molecules and interaction | 158 | 39 | 3.41E-10 | 21.8 | Pyloric caeca |
| path:sasa00512 | Mucin type O-glycan biosynthesis | Glycan biosynthesis and metabolism | 46 | 15 | 2.45E-06 | 12.9 | Pyloric caeca |
| path:sasa03320 | PPAR signaling pathway | Endocrine system | 127 | 25 | 3.84E-05 | 10.2 | Pyloric caeca |
| path:sasa00260 | Glycine, serine and threonine metabolism | Amino acid metabolism | 63 | 16 | 4.01E-05 | 10.1 | Pyloric caeca |
| path:sasa00520 | Amino sugar and nucleotide sugar metabolism | Carbohydrate metabolism | 90 | 19 | 1.22E-04 | 9.0 | Pyloric caeca |
| path:sasa00900 | Terpenoid backbone biosynthesis | Metabolism of terpenoids and polyketides | 33 | 10 | 2.38E-04 | 8.3 | Pyloric caeca |
| path:sasa00330 | Arginine and proline metabolism | Amino acid metabolism | 82 | 17 | 3.45E-04 | 8.0 | Pyloric caeca |
| path:sasa00620 | Pyruvate metabolism | Carbohydrate metabolism | 75 | 16 | 3.64E-04 | 7.9 | Pyloric caeca |
| path:sasa00250 | Alanine, aspartate and glutamate metabolism | Amino acid metabolism | 63 | 14 | 5.41E-04 | 7.5 | Pyloric caeca |
| path:sasa00340 | Histidine metabolism | Amino acid metabolism | 25 | 8 | 6.69E-04 | 7.3 | Pyloric caeca |
| path:sasa00591 | Linoleic acid metabolism | Lipid metabolism | 23 | 7 | 2.02E-03 | 6.2 | Pyloric caeca |
| path:sasa00592 | alpha-Linolenic acid metabolism | Lipid metabolism | 30 | 8 | 2.49E-03 | 6.0 | Pyloric caeca |
| path:sasa04512 | ECM-receptor interaction | Signaling molecules and interaction | 137 | 21 | 4.46E-03 | 5.4 | Pyloric caeca |
| path:sasa00830 | Retinol metabolism | Metabolism of cofactors and vitamins | 62 | 12 | 4.52E-03 | 5.4 | Pyloric caeca |
| path:sasa00590 | Arachidonic acid metabolism | Lipid metabolism | 70 | 13 | 4.62E-03 | 5.4 | Pyloric caeca |
| path:sasa00670 | One carbon pool by folate | Metabolism of cofactors and vitamins | 27 | 7 | 5.46E-03 | 5.2 | Pyloric caeca |
| path:sasa04514 | Cell adhesion molecules (CAMs) | Signaling molecules and interaction | 186 | 26 | 5.97E-03 | 5.1 | Pyloric caeca |
| path:sasa00630 | Glyoxylate and dicarboxylate metabolism | Carbohydrate metabolism | 57 | 11 | 6.59E-03 | 5.0 | Pyloric caeca |
| path:sasa00380 | Tryptophan metabolism | Amino acid metabolism | 51 | 10 | 8.38E-03 | 4.8 | Pyloric caeca |
| path:sasa00220 | Arginine biosynthesis | Amino acid metabolism | 37 | 8 | 9.80E-03 | 4.6 | Pyloric caeca |
| path:sasa04210 | Apoptosis | Cell growth and death | 282 | 35 | 1.07E-02 | 4.5 | Pyloric caeca |
| path:sasa02010 | ABC transporters | Membrane transport | 69 | 12 | 1.08E-02 | 4.5 | Pyloric caeca |
| path:sasa00564 | Glycerophospholipid metabolism | Lipid metabolism | 177 | 23 | 2.12E-02 | 3.9 | Pyloric caeca |
| path:sasa00140 | Steroid hormone biosynthesis | Lipid metabolism | 36 | 7 | 2.68E-02 | 3.6 | Pyloric caeca |
| path:sasa00400 | Phenylalanine, tyrosine and tryptophan biosynthesis | Amino acid metabolism | 9 | 3 | 3.30E-02 | 3.4 | Pyloric caeca |
| path:sasa00051 | Fructose and mannose metabolism | Carbohydrate metabolism | 63 | 10 | 3.42E-02 | 3.4 | Pyloric caeca |
| path:sasa00910 | Nitrogen metabolism | Energy metabolism | 23 | 5 | 3.77E-02 | 3.3 | Pyloric caeca |
| path:sasa01040 | Biosynthesis of unsaturated fatty acids | Lipid metabolism | 48 | 8 | 4.29E-02 | 3.1 | Pyloric caeca |
| path:sasa04530 | Tight junction | Cellular community - eukaryotes | 344 | 38 | 4.30E-02 | 3.1 | Pyloric caeca |
| path:sasa00471 | D-Glutamine and D-glutamate metabolism | Metabolism of other amino acids | 10 | 3 | 4.43E-02 | 3.1 | Pyloric caeca |
| path:sasa04142 | Lysosome | Transport and catabolism | 243 | 20 | 4.04E-07 | 14.7 | Hindgut |
| path:sasa00982 | Drug metabolism - cytochrome P450 | Xenobiotics biodegradation and metabolism | 42 | 8 | 3.17E-06 | 12.7 | Hindgut |
| path:sasa04216 | Ferroptosis | Cell growth and death | 91 | 11 | 4.91E-06 | 12.2 | Hindgut |
| path:sasa00620 | Pyruvate metabolism | Carbohydrate metabolism | 73 | 8 | 2.00E-04 | 8.5 | Hindgut |
| path:sasa00830 | Retinol metabolism | Metabolism of cofactors and vitamins | 61 | 7 | 3.78E-04 | 7.9 | Hindgut |
| path:sasa00250 | Alanine, aspartate and glutamate metabolism | Amino acid metabolism | 63 | 7 | 4.62E-04 | 7.7 | Hindgut |
| path:sasa00520 | Amino sugar and nucleotide sugar metabolism | Carbohydrate metabolism | 91 | 8 | 9.01E-04 | 7.0 | Hindgut |
| path:sasa03320 | PPAR signaling pathway | Endocrine system | 124 | 9 | 1.72E-03 | 6.4 | Hindgut |
| path:sasa00330 | Arginine and proline metabolism | Amino acid metabolism | 80 | 7 | 1.93E-03 | 6.2 | Hindgut |
| path:sasa00350 | Tyrosine metabolism | Amino acid metabolism | 28 | 4 | 3.18E-03 | 5.8 | Hindgut |
| path:sasa00380 | Tryptophan metabolism | Amino acid metabolism | 51 | 5 | 5.27E-03 | 5.2 | Hindgut |
| path:sasa00860 | Porphyrin and chlorophyll metabolism | Metabolism of cofactors and vitamins | 51 | 5 | 5.27E-03 | 5.2 | Hindgut |
| path:sasa00410 | beta-Alanine metabolism | Metabolism of other amino acids | 36 | 4 | 7.97E-03 | 4.8 | Hindgut |
| path:sasa00220 | Arginine biosynthesis | Amino acid metabolism | 38 | 4 | 9.65E-03 | 4.6 | Hindgut |
| path:sasa04217 | Necroptosis | Cell growth and death | 250 | 12 | 9.77E-03 | 4.6 | Hindgut |
| path:sasa00010 | Glycolysis / Gluconeogenesis | Carbohydrate metabolism | 108 | 7 | 1.01E-02 | 4.6 | Hindgut |
| path:sasa00340 | Histidine metabolism | Amino acid metabolism | 24 | 3 | 1.55E-02 | 4.2 | Hindgut |
| path:sasa00980 | Metabolism of xenobiotics by cytochrome P450 | Xenobiotics biodegradation and metabolism | 44 | 4 | 1.60E-02 | 4.1 | Hindgut |
| path:sasa04145 | Phagosome | Transport and catabolism | 270 | 12 | 1.71E-02 | 4.1 | Hindgut |
| path:sasa00053 | Ascorbate and aldarate metabolism | Carbohydrate metabolism | 27 | 3 | 2.13E-02 | 3.8 | Hindgut |
| path:sasa00603 | Glycosphingolipid biosynthesis – globo and isoglobo series | Glycan biosynthesis and metabolism | 28 | 3 | 2.35E-02 | 3.8 | Hindgut |
| path:sasa00750 | Vitamin B6 metabolism | Metabolism of cofactors and vitamins | 11 | 2 | 2.37E-02 | 3.7 | Hindgut |
| path:sasa04210 | Apoptosis | Cell growth and death | 285 | 12 | 2.49E-02 | 3.7 | Hindgut |
| path:sasa00740 | Riboflavin metabolism | Metabolism of cofactors and vitamins | 15 | 2 | 4.26E-02 | 3.2 | Hindgut |
| path:sasa00270 | Cysteine and methionine metabolism | Amino acid metabolism | 88 | 5 | 4.58E-02 | 3.1 | Hindgut |
| path:sasa03008 | Ribosome biogenesis in eukaryotes | Genetic Information Processing | 115 | 24 | 8.91E-17 | 37.0 | Liver |
| path:sasa03010 | Ribosome | Genetic Information Processing | 247 | 16 | 2.11E-04 | 8.5 | Liver |
| path:sasa00670 | One carbon pool by folate | Metabolism of cofactors and vitamins | 27 | 4 | 3.36E-03 | 5.7 | Liver |
| path:sasa03320 | PPAR signaling pathway | Endocrine system | 121 | 8 | 7.40E-03 | 4.9 | Liver |
| path:sasa03060 | Protein export | Genetic Information Processing | 41 | 4 | 1.51E-02 | 4.2 | Liver |
| path:sasa04145 | Phagosome | Transport and catabolism | 223 | 10 | 3.66E-02 | 3.3 | Liver |
| path:sasa00260 | Glycine, serine and threonine metabolism | Amino acid metabolism | 55 | 4 | 3.95E-02 | 3.2 | Liver |
| path:sasa03013 | RNA transport | Genetic Information Processing | 291 | 12 | 4.06E-02 | 3.2 | Liver |
| path:sasa00250 | Alanine, aspartate and glutamate metabolism | Amino acid metabolism | 57 | 4 | 4.41E-02 | 3.1 | Liver |