Table S4 Classification of KEGG annotation

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| **KEGG\_classification** | **KEGG\_sub\_classification** | **Gene numbers** |
| Cellular Processes | Cell growth and death | 587 |
| Cellular Processes | Cell motility | 140 |
| Cellular Processes | Cellular community | 197 |
| Cellular Processes | Transport and catabolism | 1067 |
| Environmental Information Processing | Membrane transport | 176 |
| Environmental Information Processing | Signal transduction | 1563 |
| Genetic Information Processing | Folding, sorting, and degradation | 1216 |
| Genetic Information Processing | Replication and repair | 491 |
| Genetic Information Processing | Transcription | 756 |
| Genetic Information Processing | Translation | 1491 |
| Metabolism | Amino acid metabolism | 1005 |
| Metabolism | Biosynthesis of other secondary metabolites | 362 |
| Metabolism | Carbohydrate metabolism | 1719 |
| Metabolism | Energy metabolism | 1200 |
| Metabolism | Glycan biosynthesis and metabolism | 331 |
| Metabolism | Lipid metabolism | 796 |
| Metabolism | Metabolism of cofactors and vitamins | 652 |
| Metabolism | Metabolism of other amino acids | 546 |
| Metabolism | Metabolism of terpenoids and polyketides | 341 |
| Metabolism | Nucleotide metabolism | 500 |
| Metabolism | Overview | 1173 |
| Metabolism | Xenobiotics biodegradation and metabolism | 178 |
| Organismal Systems | Aging | 291 |
| Organismal Systems | Circulatory system | 124 |
| Organismal Systems | Development | 81 |
| Organismal Systems | Digestive system | 256 |
| Organismal Systems | Endocrine system | 700 |
| Organismal Systems | Environmental adaptation | 613 |
| Organismal Systems | Excretory system | 152 |
| Organismal Systems | Immune system | 404 |
| Organismal Systems | Nervous system | 433 |
| Organismal Systems | Sensory system | 23 |