

Number of gene clusters

40000

30000

20000

10000

0

Number of genomes (1 to 181)

COG Class

- Amino acid transport and metabolism
- Carbohydrate transport and metabolism
- Cell cycle control, cell division, chromosome partitioning
- Cell motility
- Cell wall/membrane/envelope biogenesis
- Chromatin structure and dynamics
- Coenzyme transport and metabolism
- Defense mechanisms
- Energy production and conversion
- Extracellular structures
- General function prediction only
- Inorganic ion transport and metabolism
- Intracellular trafficking, secretion, and vesicular transport
- Lipid transport and metabolism
- Mobilome: prophages, transposons
- Multiple
- Nucleotide transport and metabolism
- Posttranslational modification, protein turnover, chaperones
- Replication, recombination and repair
- Secondary metabolites biosynthesis, transport and catabolism
- Signal transduction mechanisms
- Transcription
- Translation, ribosomal structure and biogenesis
- Unknown