

Additional Table 1. Mapping COG species to GIDEON species

Gideon Species	COGs Species	NCBI Taxonomy ID
Actinobacteria Corynebacterium glutamicum	Actinobacteria Corynebacterium glutamicum	1718
Actinobacteria Mycobacterium leprae	Actinobacteria Mycobacterium leprae	1769
alpha Brucella melitensis	alpha Brucella melitensis	29459
alpha Rickettsia conorii	alpha Rickettsia conorii	781
alpha Rickettsia prowazekii	alpha Rickettsia prowazekii	782
Bacteria Fusobacterium nucleatum	Bacteria Fusobacterium nucleatum	190304
Chlam-Spir Borrelia burgdorferi	Chlam-Spir Borrelia burgdorferi	139
Chlam-Spir Chlamydia trachomatis	Chlam-Spir Chlamydia trachomatis	813
Chlam-Spir Chlamydophila pneumoniae	Chlam-Spir Chlamydophila pneumoniae CWL029	115713
Chlam-Spir Treponema pallidum	Chlam-Spir Treponema pallidum	160
gamma Haemophilus influenzae	gamma Haemophilus influenzae	71421
gamma Pasteurella multocida	gamma Pasteurella multocida	747
gamma Pseudomonas aeruginosa	gamma Pseudomonas aeruginosa	287
gamma Salmonella typhimurium	gamma Salmonella typhimurium LT2	99287
gamma Vibrio cholerae	gamma Vibrio cholerae	666
gamma Yersinia pestis	gamma Yersinia pestis	632
Gramplus Bacillus subtilis	Gramplus Bacillus subtilis	1423
Gramplus Clostridium acetobutylicum	Gramplus Clostridium acetobutylicum	1488
Gramplus Lactococcus lactis	Gramplus Lactococcus lactis	1360
Gramplus Listeria innocua	Gramplus Listeria innocua	1642
Gramplus Mycoplasma genitalium	Gramplus Mycoplasma genitalium	2097
Gramplus Mycoplasma pneumoniae	Gramplus Mycoplasma pneumoniae	2104
Gramplus Staphylococcus aureus	Gramplus Staphylococcus aureus N315	158879
Gramplus Streptococcus pneumoniae	Gramplus Streptococcus pneumoniae TIGR4	170187
Gramplus Streptococcus pyogenes	Gramplus Streptococcus pyogenes M1 GAS	160490
Gramplus Ureaplasma urealyticum	Gramplus Ureaplasma urealyticum	2130
Proteobacteria Campylobacter jejuni	Proteobacteria Campylobacter jejuni	197
Proteobacteria Ralstonia solanacearum	Proteobacteria Ralstonia solanacearum	305

Gideon Species	COGs Subspecies	NCBI Taxonomy ID
Actinobacteria Mycobacterium tuberculosis	Actinobacteria Mycobacterium tuberculosis CDC1551	83331
	Actinobacteria Mycobacterium tuberculosis H37Rv	83332
gamma Escherichia coli	gamma Escherichia coli K12	83333
	gamma Escherichia coli O157:H7	83334
	gamma Escherichia coli O157:H7 EDL933	155864
Proteobacteria Helicobacter pylori	Proteobacteria Helicobacter pylori 26695	85962
	Proteobacteria Helicobacter pylori J99	85963
Proteobacteria Neisseria meningitidis	Proteobacteria Neisseria meningitidis Z2491	122587
	Proteobacteria Neisseria meningitidis MC58	122586