```
Actinobacteriota; Acidimicrobiia
Actinobacteriota; Actinobacteria
Actinobacteriota; Coriobacteriia
Actinobacteriota; Thermoleophilia
Actinobacteriota; UBA9087
Bacteroidota; Bacteroidia
Bacteroidota; Chlorobia
Bacteroidota; Ignavibacteria
Bacteroidota; Kryptonia
Bacteroidota; Rhodothermia
Bacteroidota; UBA10030
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Cyanobacteria; CyanobacteriiaCyanobacteria; Vampirovibrionia

Patescibacteria;Dojkabacteria
Patescibacteria;Doudnabacteria
Patescibacteria;Gracilibacteria
Patescibacteria;Microgenomatia
Patescibacteria;Paceibacteria
Patescibacteria;Paceibacteria_A
Patescibacteria;Saccharimonadia

Patescibacteria;UBA1384
Patescibacteria;WWE3

freshwater MAGs

gtdb

Proteobacteria; Alphaproteobacteria
 Proteobacteria; Gammaproteobacteria
 Proteobacteria; Zetaproteobacteria

Firmicutes;Bacilli
Patescibacteria;ABY1

paste(phylum, class, sep = ";")