

**Families** Unclassified f\_Methanocorpusculaceae f\_uncultured f\_Comamonadaceae f Methanosarcinaceae f\_Rhodocyclaceae f\_Erysipelatoclostridiaceae f\_Clostridiaceae f\_Anaerolineaceae f\_Pseudomonadaceae \_\_\_\_ f\_\_Dysgonomonadaceae f\_Sphingomonadaceae f\_Rikenellaceae f\_Methanosaetaceae f\_Shewanellaceae f\_Cloacimonadaceae f\_Geobacteraceae f\_Peptostreptococcaceae f\_Clostridia\_vadinBB60\_group f\_Syntrophomonadaceae f\_Methanomethylophilaceae f\_Lachnospiraceae f\_Tannerellaceae f\_Saprospiraceae \_\_\_\_ f\_Synergistaceae f\_Bacteroidetes\_vadinHA17 \_\_\_\_ f\_Pedosphaeraceae f\_Bathyarchaeia **f\_W27** f\_Methanobacteriaceae f\_Moraxellaceae f\_Christensenellaceae f\_Bacillaceae f\_Pirellulaceae f\_Oscillospiraceae \_\_\_\_ f\_OPB41 f\_Mycobacteriaceae f\_Spirochaetaceae f\_Rhodobacteraceae f\_Microscillaceae f\_Rhizobiaceae f\_Competibacteraceae f\_Hungateiclostridiaceae f\_Intrasporangiaceae \_\_\_\_ f\_Run-SP154 F\_PeM15 f\_Enterobacteriaceae **f\_UCG-010** f\_Methanomicrobiaceae f\_Desulfobulbaceae f\_Rhodanobacteraceae f\_Chitinophagaceae f\_Caldilineaceae f\_GZKB75 f\_Gemmatimonadaceae f\_Desulfovibrionaceae f\_Lactobacillaceae \_\_\_\_ f\_Bacteroidaceae f\_Carnobacteriaceae f\_Acholeplasmataceae f\_Oligosphaeraceae f\_Sporomusaceae f\_Bdellovibrionaceae f\_Eubacteriaceae f\_Steroidobacteraceae f\_Caulobacteraceae f\_Flavobacteriaceae f\_Ruminococcaceae f\_Opitutaceae f\_Nocardioidaceae \_\_\_\_ f\_P9X2b3D02 f\_Solimonadaceae f\_Planococcaceae f\_Mitochondria f\_Xanthomonadaceae f\_Clostridia\_UCG-014 f\_Deferribacteraceae f\_Hydrogenophilaceae f\_Chromobacteriaceae f\_Desulfosarcinaceae f\_Weeksellaceae f\_Saccharimonadales f\_Syntrophaceae f\_Alteromonadaceae f\_Methanospirillaceae f\_Nitrospiraceae f\_Bacteroidales\_UCG-001 f\_Prolixibacteraceae f\_Candidatus\_Nomurabacteria f\_Methanomassiliicoccaceae \_\_\_\_ f\_Paludibacteraceae f\_Limnochordia f\_Butyricicoccaceae f\_Acidaminococcaceae f\_Nitrosomonadaceae f\_4-29-1 \_\_\_\_ f\_TRA3-20 f\_Smithellaceae Others < 1%