```
k_Bacteria;p_Actinobacteria;c_Acidimicrobiia;o_Acidimicrobiales;f_
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_
    k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Actinomycetaceae
    k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Beutenbergiaceae
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Bogoriellaceae
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Brevibacteriaceae
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Cellulomonadaceae
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Corynebacteriaceae
    k\_Bacteria; p\_Actinobacteria; c\_Actinobacteria; o\_Actinomycetales; f\_Dermabacteraceae
    k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Dietziaceae
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Geodermatophilaceae
    k\_Bacteria; p\_Actinobacteria; c\_Actinobacteria; o\_Actinomycetales; f\_Gordoniaceae
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Intrasporangiaceae
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Kineosporiaceae
    k\_Bacteria; p\_Actinobacteria; c\_Actinobacteria; o\_Actinomycetales; f\_Microbacteriaceae
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Micrococcaceae
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Mycobacteriaceae
  k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Nocardiaceae
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Nocardioidaceae
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Promicromonosporaceae
k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales;f_Pseudonocardiaceae
k_Bacteria;p_Actinobacteria;c_Thermoleophilia;o_Gaiellales;f_Gaiellaceae
k_Bacteria;p_Armatimonadetes;c_Armatimonadia;o_Armatimonadales;f_Armatimonadaceae
k_Bacteria;p_Armatimonadetes;c_[Fimbriimonadia];o_[Fimbriimonadales];f_[Fimbriimonadaceae]
k_Bacteria;p_Bacteroidetes;c_Bacteroidia;o_Bacteroidales;f_Porphyromonadaceae
k_Bacteria;p_Bacteroidetes;c_Bacteroidia;o_Bacteroidales;f_Prevotellaceae
  k_Bacteria;p_Bacteroidetes;c_Bacteroidia;o_Bacteroidales;f_[Paraprevotellaceae]
k_Bacteria;p_Bacteroidetes;c_Cytophagia;o_Cytophagales;f_Cytophagaceae
    k\_Bacteria; p\_Bacteroidetes; c\_Flavobacteriia; o\_Flavobacteriales; f\_Flavobacteriaceae
k_Bacteria;p_Bacteroidetes;c_Flavobacteriia;o_Flavobacteriales;f_[Weeksellaceae]
k_Bacteria;p_Bacteroidetes;c_Sphingobacteriia;o_Sphingobacteriales;f_Sphingobacteriaceae
    \label{lem:k_Bacteria} $$k\_Bacteria; p\_Bacteroidetes; c\_[Saprospirae]; o\_[Saprospirales]; f\_Chitinophagaceae
    k\_Bacteria; p\_Chloroflexi; c\_Chloroflexi; o\_Herpetosiphonales; f\_
k_Bacteria;p_Cyanobacteria;c_Chloroplast;o_Streptophyta;f_
k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;Other
k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_
k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Alicyclobacillaceae
  k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Bacillaceae
  k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Paenibacillaceae
k_Bacteria;p_Firmicutes;c_Bacilli;o_Bacillales;f_Planococcaceae
    k\_Bacteria; p\_Firmicutes; c\_Bacilli; o\_Bacillales; f\_Staphylococcaceae
k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;Other
k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_
    k\_Bacteria; p\_Firmicutes; c\_Bacilli; o\_Lactobacillales; f\_Aerococcaceae
k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Carnobacteriaceae
k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Enterococcaceae
  k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae
k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Leuconostocaceae
k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae
k_Bacteria;p_Firmicutes;c_Bacilli;o_Turicibacterales;f_Turicibacteraceae
k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;Other
k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_
k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Christensenellaceae
k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae
 k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Lachnospiraceae
   ■ k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Peptostreptococcaceae
k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Ruminococcaceae
    k\_Bacteria; p\_Firmicutes; c\_Clostridia; o\_Clostridiales; f\_Veillonellaceae
k_Bacteria;p_Fusobacteria;c_Fusobacteriia;o_Fusobacteriales;f_Leptotrichiaceae
k_Bacteria;p_Gemmatimonadetes;c_Gemm-3;o__;f_
    k\_Bacteria; p\_Planctomycetes; c\_Phycisphaerae; o\_WD2101; f\_
    k\_Bacteria; p\_Planctomycetes; c\_Planctomycetia; o\_Gemmatales; f\_Gemmataceae
k_Bacteria;p_Planctomycetes;c_Planctomycetia;o_Gemmatales;f_Isosphaeraceae
k_Bacteria;p_Planctomycetes;c_Planctomycetia;o_Planctomycetales;f_Planctomycetaceae
k_Bacteria;p_Proteobacteria;Other;Other;Other
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;Other;Other
    k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o__;f__
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_BD7-3;f_
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Caulobacterales;f_Caulobacteraceae
    k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;Other
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;f_
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;f_Aurantimonadaceae
    k\_Bacteria; p\_Proteobacteria; c\_Alphaproteobacteria; o\_Rhizobiales; f\_Bradyrhizobiaceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;f_Brucellaceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;f_Hyphomicrobiaceae
  k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;f_Methylobacteriaceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;f_Methylocystaceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;f_Phyllobacteriaceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;f_Rhizobiaceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhizobiales;f_Xanthobacteraceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhodobacterales;f_Hyphomonadaceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhodobacterales;f_Rhodobacteraceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhodospirillales;f_
    k\_Bacteria; p\_Proteobacteria; c\_Alphaproteobacteria; o\_Rhodospirillales; f\_Acetobacteraceae
    \label{lem:k_Bacteria} $$k\_Bacteria; p\_Proteobacteria; c\_Alphaproteobacteria; o\_Rhodospirillales; f\_Rhodospirillaceae
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rickettsiales;f_
    k\_Bacteria; p\_Proteobacteria; c\_Alphaproteobacteria; o\_Rickettsiales; f\_mitochondria
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Sphingomonadales;Other
k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Sphingomonadales;f_
    k\_Bacteria; p\_Proteobacteria; c\_Alphaproteobacteria; o\_Sphingomonadales; f\_Erythrobacteraceae
    k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Sphingomonadales;f_Sphingomonadaceae
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;Other;Other
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Burkholderiales;Other
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Burkholderiales;f_
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Burkholderiales;f_Alcaligenaceae
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Burkholderiales;f_Burkholderiaceae
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Burkholderiales;f_Comamonadaceae
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Burkholderiales;f_Oxalobacteraceae
    k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Neisseriales;f_Neisseriaceae
k_Bacteria;p_Proteobacteria;c_Betaproteobacteria;o_Procabacteriales;f_Procabacteriaceae
k_Bacteria;p_Proteobacteria;c_Deltaproteobacteria;o_Bdellovibrionales;f_Bacteriovoracaceae
    \verb|k_Bacteria|; p_Proteobacteria|; c_Delta proteobacteria|; o_Bdello vibrionales|; f_Bdello vibrionaceae|
k_Bacteria;p_Proteobacteria;c_Deltaproteobacteria;o_Myxococcales;Other
k_Bacteria;p_Proteobacteria;c_Deltaproteobacteria;o_Myxococcales;f_
k_Bacteria;p_Proteobacteria;c_Deltaproteobacteria;o_Myxococcales;f_Cystobacteraceae
k_Bacteria;p_Proteobacteria;c_Deltaproteobacteria;o_Myxococcales;f_OM27
k_Bacteria;p_Proteobacteria;c_Deltaproteobacteria;o_Spirobacillales;f_
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;Other;Other
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_;f_
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Aeromonadales;f_Aeromonadaceae
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Alteromonadales;f_Alteromonadaceae
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Alteromonadales;f_[Chromatiaceae]
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Enterobacteriaceae
  k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Oceanospirillales;f_Halomonadaceae
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Pseudomonadales;f_Moraxellaceae
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Pseudomonadales;f_Pseudomonadaceae
k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Thiotrichales;f_Piscirickettsiaceae
    {\tt k\_Bacteria;p\_Proteobacteria;c\_Gammaproteobacteria;o\_Xanthomonadales;f\_Sinobacteraceae}
    k\_Bacteria; p\_Proteobacteria; c\_Gamma proteobacteria; o\_Xanthomonadales; f\_Xanthomonadaceae
    k_Bacteria;p_Tenericutes;c_Mollicutes;o_RF39;f_
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k_Bacteria;p_Verrucomicrobia;c_Verrucomicrobiae;o_Verrucomicrobiales;f_Verrucomicrobiaceaek_Bacteria;p_Verrucomicrobia;c_[Spartobacteria];o_[Chthoniobacterales];f_[Chthoniobacteraceae]

Unassigned;Other;Other;Other;Other

k_Bacteria;p_Acidobacteria;c_Acidobacteriia;o_Acidobacteriales;f_Acidobacteriaceae k_Bacteria;p_Acidobacteria;c_[Chloracidobacteria];o_RB41;f_Ellin6075