```
■ k_Bacteria;p_Actinobacteria;c_Coriobacteriia
    k__Bacteria;p__Actinobacteria;c__MB-A2-108
  k_Bacteria;p_Actinobacteria;c_Nitriliruptoria
     k_Bacteria;p_Actinobacteria;c_OPB41
k_Bacteria;p_Actinobacteria;c_Rubrobacteria k_Bacteria;p_Actinobacteria;c_Thermoleophilia
   k_Bacteria;p_Armatimonadetes;c_
    k_Bacteria;p_Armatimonadetes;c_0319-6E2
     k_Bacteria;p_Armatimonadetes;c_Armatimonadia
        Bacteria;p_Armatimonadetes;c_Chthonomonadetes
       _Bacteria;p__Armatimonadetes;c__OPB50
   k Bacteria;p Armatimonadetes;c SHA-37
k_Bacteria;p_Armatimonadetes;c_SJA-176
       _Bacteria;p__Armatimonadetes;c__[Fimbriimonadia]
     k_Bacteria;p_BHI80-139;c_
   k_Bacteria;p_BRC1;c_NPL-UPA2
     k_Bacteria;p_BRC1;c_PRR-11
     k_Bacteria;p_Bacteroidetes;c_At12OctB3
   k_Bacteria;p_Bacteroidetes;c_BME43
   ■ k_Bacteria;p_Bacteroidetes;c_Bacteroidia
    k_Bacteria;p_Bacteroidetes;c_Cytophagia
   ■ k_Bacteria;p_Bacteroidetes;c_Flavobacteriia
■ k_Bacteria;p_Bacteroidetes;c_Sphingobacteriia
   k Bacteria;p Bacteroidetes;c VC2 1 Bac22
   k_Bacteria;p_Bacteroidetes;c_[Rhodothermi]
   ■ k_Bacteria;p_Bacteroidetes;c_[Saprospirae]
    k__Bacteria;p__Chlamydiae;c__Chlamydiia
   k_Bacteria;p_Chlorobi;c_
     k_Bacteria;p_Chlorobi;c_BSV26
   ■ k_Bacteria;p_Chlorobi;c_Ignavibacteria
    k_Bacteria;p_Chlorobi;c_OPB56
    k_Bacteria;p_Chlorobi;c_SJA-28
     k__Bacteria;p__Chloroflexi;c_
k_Bacteria;p_Chloroflexi;c_Anaerolineae
k_Bacteria;p_Chloroflexi;c_C0119
   ■ k_Bacteria;p_Chloroflexi;c_Chloroflexi
   ■ k_Bacteria;p_Chloroflexi;c_Ellin6529
   k_Bacteria;p_Chloroflexi;c_Gitt-GS-136
  k_Bacteria;p_Chloroflexi;c_Ktedonobacteria
k_Bacteria;p_Chloroflexi;c_P2-11E
   k_Bacteria;p_Chloroflexi;c_S085
   k_Bacteria;p_Chloroflexi;c_SAR202
k_Bacteria;p_Chloroflexi;c_SHA-26
k_Bacteria;p_Chloroflexi;c_TK10
k_Bacteria;p_Chloroflexi;c TK17
     k\_Bacteria; p\_Chloroflexi; c\_Thermomicrobia
     k__Bacteria;p__Cyanobacteria;c_
    k_Bacteria;p_Cyanobacteria;c_4C0d-2
   ■ k__Bacteria;p__Cyanobacteria;c__Chloroplast
     k_Bacteria;p_Cyanobacteria;c_ML635J-21
k_Bacteria;p_Cyanobacteria;c_Nostocophycideae
    k_Bacteria;p_Cyanobacteria;c_Oscillatoriophycideae
   ■ k_Bacteria;p_Cyanobacteria;c_Synechococcophycideae
     k_Bacteria;p_Elusimicrobia;c_Elusimicrobia
   k_Bacteria;p_Elusimicrobia;c_Endomicrobia
    k__Bacteria;p__FBP;c_
   k_Bacteria;p_FCPU426;c_
    k_Bacteria;p_Fibrobacteres;c_Fibrobacteria
   ■ k_Bacteria;p__Fibrobacteres;c__TG3
   ■ k_Bacteria;p_Firmicutes;c_Bacilli
   k_Bacteria;p_Firmicutes;c_Clostridia
   k_Bacteria;p_Firmicutes;c_Erysipelotrichi
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k_Bacteria;p_Fusobacteria;c_Fusobacteriia

k_Bacteria;p_Gemmatimonadetes;c_
k_Bacteria;p_Gemmatimonadetes;c_Gemm-1
k_Bacteria;p_Gemmatimonadetes;c_Gemm-2
k_Bacteria;p_Gemmatimonadetes;c_Gemm-3
k_Bacteria;p_Gemmatimonadetes;c_Gemm-5

 $k_Bacteria; p_Gemmatimona detes; c_Gemmatimona detes$

■ k_Bacteria;p_Kazan-3B-28;c_ ■ k_Bacteria;p_Lentisphaerae;c_[Lentisphaeria]

k_Bacteria;p_Planctomycetes;c_028H05-P-BN-P5
k_Bacteria;p_Planctomycetes;c_BD7-11
k_Bacteria;p_Planctomycetes;c_C6
k_Bacteria;p_Planctomycetes;c_OM190
k_Bacteria;p_Planctomycetes;c_Phycisphaerae
k_Bacteria;p_Planctomycetes;c_Pla3
k_Bacteria;p_Planctomycetes;c_Pla4

k_Bacteria;p_Planctomycetes;c_Planctomycetia k_Bacteria;p_Planctomycetes;c_vadinHA49

k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria
 k_Bacteria;p_Proteobacteria;c_Betaproteobacteria
 k_Bacteria;p_Proteobacteria;c_Deltaproteobacteria
 k_Bacteria;p_Proteobacteria;c_Epsilonproteobacteria
 k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria

■ k_Bacteria;p_Proteobacteria;c_

■ k_Bacteria;p_Proteobacteria;c_TA18

k_Bacteria;p_SBR1093;c_VHS-B5-50

k_Bacteria;p_Tenericutes;c_Mollicutes k_Bacteria;p_Tenericutes;c_RF3

k_Bacteria;p_Verrucomicrobia;c_Opitutae
k_Bacteria;p_Verrucomicrobia;c_Verruco-5
k_Bacteria;p_Verrucomicrobia;c_Verrucomicrobiae
k_Bacteria;p_Verrucomicrobia;c_[Methylacidiphilae]
k_Bacteria;p_Verrucomicrobia;c_[Pedosphaerae]
k_Bacteria;p_Verrucomicrobia;c_[Spartobacteria]

k_Bacteria;p_Spirochaetes;c_Spirochaetesk_Bacteria;p_Spirochaetes;c_[Leptospirae]

k__Bacteria;p__SBR1093;c__

k__Bacteria;p__SR1;c__

k_Bacteria;p_TM6;c_ k_Bacteria;p_TM6;c_SBRH58 k_Bacteria;p_TM6;c_SJA-4 k_Bacteria;p_TM7;c_

k_Bacteria;p_TM7;c_MJK10
 k_Bacteria;p_TM7;c_SC3
 k_Bacteria;p_TM7;c_TM7-1
 k_Bacteria;p_TM7;c_TM7-3

k_Bacteria;p_Verrucomicrobia;c

k_Bacteria;p_WPS-2;c_ k_Bacteria;p_WS1;c_

k_Bacteria;p_WS2;c_SHA-109 k_Bacteria;p_WS3;c_PRR-12 k_Bacteria;p_WS4;c_

k_Bacteria;p_[Thermi];c_Deinococci

k_Bacteria;p_GAL15;c_ k_Bacteria;p_GN02;c_BD1-5 k_Bacteria;p_GN02;c_GKS2-174 k_Bacteria;p_GN02;c_GN07 k_Bacteria;p_GN04;c_ k_Bacteria;p_GN04;c_GN15 k_Bacteria;p_GOUTA4;c_

k_Bacteria;p_MVP-21;c_
k_Bacteria;p_NC10;c_12-24
k_Bacteria;p_NKB19;c_
k_Bacteria;p_NKB19;c_TSBW08
k_Bacteria;p_Nitrospirae;c_Nitrospira

k_Bacteria;p_OD1;c_
k_Bacteria;p_OD1;c_ABY1
k_Bacteria;p_OD1;c_Mb-NB09
k_Bacteria;p_OD1;c_SM2F11
k_Bacteria;p_OD1;c_ZB2
k_Bacteria;p_OP11;c_

k_Bacteria;p_OP11;c_OP11-3

k_Bacteria;p_OP11;c_OP11-4

k_Bacteria;p_OP11;c_WCHB1-64

k_Bacteria;p_OP3;c_PBS-25

k_Bacteria;p_OP3;c_koll11

k_Bacteria;p_OP8;c_OP8_1

k_Bacteria;p_PAUC34f;c_

k_Bacteria;p_Planctomycetes;c_

k_Archaea;p_Crenarchaeota;c_MBGAk Archaea;p Crenarchaeota;c MCG

k_Bacteria;p_;c_ k_Bacteria;p_AC1;c_ k_Bacteria;p_AD3;c_ABS-6 k_Bacteria;p_AD3;c_JG37-AG-4 k_Bacteria;p_Acidobacteria;c_ k_Bacteria;p_Acidobacteria;c_AT-s54

k_Archaea;p_Crenarchaeota;c_Thaumarchaeota
k_Archaea;p_Euryarchaeota;c_Methanobacteria
k_Archaea;p_Euryarchaeota;c_Methanomicrobia
k_Archaea;p_Euryarchaeota;c_Thermoplasmata
k_Archaea;p_[Parvarchaeota];c_[Micrarchaea]
k_Archaea;p_[Parvarchaeota];c_[Parvarchaea]

k_Bacteria;p_Acidobacteria;c_Acidobacteria-5
k_Bacteria;p_Acidobacteria;c_Acidobacteria-6
k_Bacteria;p_Acidobacteria;c_Acidobacteriia
k_Bacteria;p_Acidobacteria;c_BPC102
k_Bacteria;p_Acidobacteria;c_DA052
k_Bacteria;p_Acidobacteria;c_EC1113
k_Bacteria;p_Acidobacteria;c_GAL08
k_Bacteria;p_Acidobacteria;c_Holophagae
k_Bacteria;p_Acidobacteria;c_PAUC37f
k_Bacteria;p_Acidobacteria;c_RB25
k_Bacteria;p_Acidobacteria;c_S035

k_Bacteria;p_Acidobacteria;c_Solibacteresk_Bacteria;p_Acidobacteria;c_Sva0725k_Bacteria;p_Acidobacteria;c_TM1

k_Bacteria;p_Acidobacteria;c_iii1-8

k_Bacteria;p_Acidobacteria;c_[Chloracidobacteria]

| k_Bacteria;p_Actinobacteria;c_Acidimicrobiia | k_Bacteria;p_Actinobacteria;c_Actinobacteria