

S8 Table. ANCOM summary based on beads comparison.

,Reject null hypothesis,W

Unassigned	—	—	—	__,False,10
k__Archaea	—	—	—	__,False,0
k__Archaea	p__Crenarchaeota	c__MBGA	o__	f__,False,2
k__Archaea	p__Crenarchaeota	c__Thaumarchaeota	o__AK31	f__,False,0
k__Archaea	p__Crenarchaeota	c__Thaumarchaeota	o__Cenarchaeales	__,False,7
k__Archaea	p__Crenarchaeota	c__Thaumarchaeota	o__Cenarchaeales	f__,False,0
k__Archaea	p__Crenarchaeota	c__Thaumarchaeota	o__Cenarchaeales	f__Cenarchaeaceae,False,37
k__Archaea	p__Crenarchaeota	c__Thaumarchaeota	o__Nitrososphaerales	f__Nitrososphaeraceae,False,11
k__Archaea	p__Euryarchaeota	—	—	__,False,0
k__Archaea	p__Euryarchaeota	c__Thermoplasmata	o__E2	__,False,0
k__Archaea	p__Euryarchaeota	c__Thermoplasmata	o__E2	f__TMEG,False,4
k__Archaea	p__Euryarchaeota	c__Thermoplasmata	o__E2	f__[Methanomassiliicoccaceae],False,28
k__Archaea	p__[Parvarchaeota]	c__[Parvarchaea]	o__WCHD3-30	f__,False,4
k__Archaea	p__[Parvarchaeota]	c__[Parvarchaea]	o__YLA114	f__,False,2
k__Bacteria	—	—	—	__,False,15
k__Bacteria	p__Acidobacteria	—	—	__,False,11
k__Bacteria	p__Acidobacteria	c__	o__	f__,False,0
k__Bacteria	p__Acidobacteria	c__Acidobacteria-5	o__	f__,False,7
k__Bacteria	p__Acidobacteria	c__Acidobacteria-6	—	__,False,0
k__Bacteria	p__Acidobacteria	c__Acidobacteria-6	o__BPC015	f__,False,0
k__Bacteria	p__Acidobacteria	c__Acidobacteria-6	o__CCU21	f__,False,6
k__Bacteria	p__Acidobacteria	c__Acidobacteria-6	o__iii1-15	__,False,0
k__Bacteria	p__Acidobacteria	c__Acidobacteria-6	o__iii1-15	f__,False,25
k__Bacteria	p__Acidobacteria	c__Acidobacteria-6	o__iii1-15	f__RB40,False,0
k__Bacteria	p__Acidobacteria	c__Acidobacteria-6	o__iii1-15	f__mb2424,False,3
k__Bacteria	p__Acidobacteria	c__Acidobacteriia	o__Acidobacteriales	f__Koribacteraceae,False,1
k__Bacteria	p__Acidobacteria	c__BPC102	o__	f__,False,1
k__Bacteria	p__Acidobacteria	c__BPC102	o__B110	f__,False,8
k__Bacteria	p__Acidobacteria	c__BPC102	o__MVS-40	f__,True,127
k__Bacteria	p__Acidobacteria	c__DA052	o__E29	f__,False,2
k__Bacteria	p__Acidobacteria	c__DA052	o__Ellin6513	f__,False,0
k__Bacteria	p__Acidobacteria	c__EC1113	o__	f__,False,2
k__Bacteria	p__Acidobacteria	c__PAUC37f	o__	f__,False,7
k__Bacteria	p__Acidobacteria	c__S035	o__	f__,False,14
k__Bacteria	p__Acidobacteria	c__Solibacteres	o__JH-WHS99	f__,False,0
k__Bacteria	p__Acidobacteria	c__Solibacteres	o__Solibacterales	__,False,1
k__Bacteria	p__Acidobacteria	c__Solibacteres	o__Solibacterales	f__,False,8
k__Bacteria	p__Acidobacteria	c__Solibacteres	o__Solibacterales	f__PAUC26f,False,0
k__Bacteria	p__Acidobacteria	c__Solibacteres	o__Solibacterales	f__Solibacteraceae,False,8
k__Bacteria	p__Acidobacteria	c__Sva0725	o__Sva0725	f__,True,107
k__Bacteria	p__Acidobacteria	c__[Chloracidobacteria]	—	__,False,1
k__Bacteria	p__Acidobacteria	c__[Chloracidobacteria]	o__11-24	f__,False,61
k__Bacteria	p__Acidobacteria	c__[Chloracidobacteria]	o__	f__,False,5
k__Bacteria	p__Acidobacteria	c__[Chloracidobacteria]	o__PK29	f__,False,6
k__Bacteria	p__Acidobacteria	c__[Chloracidobacteria]	o__RB41	__,False,6
k__Bacteria	p__Acidobacteria	c__[Chloracidobacteria]	o__RB41	f__,False,0
k__Bacteria	p__Acidobacteria	c__[Chloracidobacteria]	o__RB41	f__Ellin6075,False,2
k__Bacteria	p__Acidobacteria	c__iii1-8	o__32-20	f__,False,7
k__Bacteria	p__Acidobacteria	c__iii1-8	o__DS-18	f__,False,0
k__Bacteria	p__Actinobacteria	—	—	__,False,1
k__Bacteria	p__Actinobacteria	c__Acidimicrobiia	o__Acidimicrobiales	__,False,2
k__Bacteria	p__Actinobacteria	c__Acidimicrobiia	o__Acidimicrobiales	f__,False,21
k__Bacteria	p__Actinobacteria	c__Acidimicrobiia	o__Acidimicrobiales	f__AKIW874,False,17
k__Bacteria	p__Actinobacteria	c__Acidimicrobiia	o__Acidimicrobiales	f__C111,False,0
k__Bacteria	p__Actinobacteria	c__Acidimicrobiia	o__Acidimicrobiales	f__EB1017,False,5
k__Bacteria	p__Actinobacteria	c__Acidimicrobiia	o__Acidimicrobiales	f__koll13,False,6
k__Bacteria	p__Actinobacteria	c__Actinobacteria	—	__,False,0
k__Bacteria	p__Actinobacteria	c__Actinobacteria	o__Actinomycetales	__,False,0
k__Bacteria	p__Actinobacteria	c__Actinobacteria	o__Actinomycetales	f__,False,7
k__Bacteria	p__Actinobacteria	c__Actinobacteria	o__Actinomycetales	f__Actinosynnemataceae,False,4
k__Bacteria	p__Actinobacteria	c__Actinobacteria	o__Actinomycetales	f__Frankiaceae,False,0
k__Bacteria	p__Actinobacteria	c__Actinobacteria	o__Actinomycetales	f__Glycomycetaceae,False,0
k__Bacteria	p__Actinobacteria	c__Actinobacteria	o__Actinomycetales	f__Microbacteriaceae,False,0
k__Bacteria	p__Actinobacteria	c__Actinobacteria	o__Actinomycetales	f__Micrococccaceae,False,2
k__Bacteria	p__Actinobacteria	c__Actinobacteria	o__Actinomycetales	f__Micromonosporaceae,False,0
k__Bacteria	p__Actinobacteria	c__Actinobacteria	o__Actinomycetales	f__Mycobacteriaceae,False,0
k__Bacteria	p__Actinobacteria	c__Actinobacteria	o__Actinomycetales	f__Nocardiaceae,False,0
k__Bacteria	p__Actinobacteria	c__Actinobacteria	o__Actinomycetales	f__Nocardiodaceae,False,1
k__Bacteria	p__Actinobacteria	c__Actinobacteria	o__Actinomycetales	f__Promicromonosporaceae,False,4

k_Bacteria	p_Actinobacteria	c_Actinobacteria	o_Actinomycetales	f_Pseudonocardiaceae,False,10
k_Bacteria	p_Actinobacteria	c_Actinobacteria	o_Actinomycetales	f_Streptomycetaceae,False,13
k_Bacteria	p_Actinobacteria	c_Actinobacteria	o_Actinomycetales	f_Streptosporangiaceae,False,0
k_Bacteria	p_Actinobacteria	c_Actinobacteria	o_Micrococcales	f__False,0
k_Bacteria	p_Actinobacteria	c_MB-A2-108	o_0319-7L14	f__False,32
k_Bacteria	p_Actinobacteria	c_MB-A2-108	o__	f__False,5
k_Bacteria	p_Actinobacteria	c_Nitriliruptoria	o_Euzebyales	f_Euzebyaceae,False,3
k_Bacteria	p_Actinobacteria	c_Rubrobacteria	o_Rubrobacterales	f_Rubrobacteraceae,False,5
k_Bacteria	p_Actinobacteria	c_Thermoleophilia	__	f__False,2
k_Bacteria	p_Actinobacteria	c_Thermoleophilia	o_Gaiellales	f__False,2
k_Bacteria	p_Actinobacteria	c_Thermoleophilia	o_Gaiellales	f__False,14
k_Bacteria	p_Actinobacteria	c_Thermoleophilia	o_Gaiellales	f_AK1AB1_02E,False,5
k_Bacteria	p_Actinobacteria	c_Thermoleophilia	o_Gaiellales	f_Gaiellaceae,False,8
k_Bacteria	p_Actinobacteria	c_Thermoleophiia	o_Solirubrobacterales	f__False,1
k_Bacteria	p_Actinobacteria	c_Thermoleophiia	o_Solirubrobacterales	f__False,4
k_Bacteria	p_Actinobacteria	c_Thermoleophiia	o_Solirubrobacterales	f_Conexibacteraceae,False,2
k_Bacteria	p_Actinobacteria	c_Thermoleophiia	o_Solirubrobacterales	f_Solirubrobacteraceae,False,4
k_Bacteria	p_Armatimonadetes	c_[Fimbrimonadia]	o_[Fimbrimonadales]	f_[Fimbrimonadaceae],False,2
k_Bacteria	p_BRC1	c_PRR-11	o__	f__False,3
k_Bacteria	p_Bacteroidetes	__	__	f__False,34
k_Bacteria	p_Bacteroidetes	c_Bacteroidia	o_Bacteroidales	f_Bacteroidaceae,False,1
k_Bacteria	p_Bacteroidetes	c_Bacteroidia	o_Bacteroidales	f_Prevotellaceae,False,4
k_Bacteria	p_Bacteroidetes	c_Cytophagia	o_Cytophagales	f_Cytophagaceae,False,12
k_Bacteria	p_Bacteroidetes	c_Cytophagia	o_Cytophagales	f_[Amoebophilaceae],False,6
k_Bacteria	p_Bacteroidetes	c_Flavobacteriia	o_Flavobacteriales	f__False,1
k_Bacteria	p_Bacteroidetes	c_Flavobacteriia	o_Flavobacteriales	f_Cryomorphaceae,False,0
k_Bacteria	p_Bacteroidetes	c_Sphingobacteriia	o_Sphingobacteriales	f__False,2
k_Bacteria	p_Bacteroidetes	c_Sphingobacteriia	o_Sphingobacteriales	f__False,7
k_Bacteria	p_Bacteroidetes	c_Sphingobacteriia	o_Sphingobacteriales	f_Sphingobacteriaceae,False,31
k_Bacteria	p_Bacteroidetes	c_VC2_1_Bac22	o__	f__False,0
k_Bacteria	p_Bacteroidetes	c_[Saprospirae]	o_[Saprospirales]	f__False,4
k_Bacteria	p_Bacteroidetes	c_[Saprospirae]	o_[Saprospirales]	f__False,2
k_Bacteria	p_Bacteroidetes	c_[Saprospirae]	o_[Saprospirales]	f_Chitinophagaceae,False,12
k_Bacteria	p_Bacteroidetes	c_[Saprospirae]	o_[Saprospirales]	f_Saprospiraceae,False,0
k_Bacteria	p_Chlamydiae	c_Chlamydiia	o_Chlamydiales	f__False,0
k_Bacteria	p_Chlamydiae	c_Chlamydiia	o_Chlamydiales	f__False,18
k_Bacteria	p_Chlamydiae	c_Chlamydiia	o_Chlamydiales	f_Parachlamydiaceae,False,2
k_Bacteria	p_Chlamydiae	c_Chlamydiia	o_Chlamydiales	f_Rhabdochlamydiaceae,False,2
k_Bacteria	p_Chlorobi	c__	o__	f__False,0
k_Bacteria	p_Chlorobi	c_BSV26	o_A89	f__False,5
k_Bacteria	p_Chlorobi	c_BSV26	o_C20	f__False,0
k_Bacteria	p_Chlorobi	c_BSV26	o_PK329	f__False,0
k_Bacteria	p_Chlorobi	c_SJA-28	o__	f__False,2
k_Bacteria	p_Chloroflexi	__	__	f__False,15
k_Bacteria	p_Chloroflexi	c__	o__	f__False,0
k_Bacteria	p_Chloroflexi	c_Anaerolineae	o_A31	f__False,1
k_Bacteria	p_Chloroflexi	c_Anaerolineae	o_A31	f_S47,False,2
k_Bacteria	p_Chloroflexi	c_Anaerolineae	o_Caldilineales	f_Caldilineaceae,False,5
k_Bacteria	p_Chloroflexi	c_Anaerolineae	o_GCA004	f__False,19
k_Bacteria	p_Chloroflexi	c_Anaerolineae	o_H39	f__False,2
k_Bacteria	p_Chloroflexi	c_Anaerolineae	o_S0208	f__False,8
k_Bacteria	p_Chloroflexi	c_Anaerolineae	o_SBR1031	f_A4b,False,0
k_Bacteria	p_Chloroflexi	c_Anaerolineae	o_envOPS12	f__False,0
k_Bacteria	p_Chloroflexi	c_Chloroflexi	o_[Roseiflexales]	f_[Kouleothrixaceae],False,1
k_Bacteria	p_Chloroflexi	c_Ellin6529	o__	f__False,4
k_Bacteria	p_Chloroflexi	c_Gitt-GS-136	o__	f__False,6
k_Bacteria	p_Chloroflexi	c_Ktedonobacteria	__	f__False,5
k_Bacteria	p_Chloroflexi	c_Ktedonobacteria	o_Ktedonobacterales	f_Ktedonobacteraceae,False,1
k_Bacteria	p_Chloroflexi	c_Ktedonobacteria	o_Thermogemmatissporales	f_Thermogemmatissporaceae,False,1
k_Bacteria	p_Chloroflexi	c_P2-11E	o__	f__False,1
k_Bacteria	p_Chloroflexi	c_S085	o__	f__False,4
k_Bacteria	p_Chloroflexi	c_SAR202	o__	f__False,0
k_Bacteria	p_Chloroflexi	c_TK10	__	f__False,1
k_Bacteria	p_Chloroflexi	c_TK10	o__	f__False,5
k_Bacteria	p_Chloroflexi	c_TK10	o_AKYG885	f__False,9
k_Bacteria	p_Chloroflexi	c_TK10	o_AKYG885	f__False,0
k_Bacteria	p_Chloroflexi	c_TK10	o_AKYG885	f_5B-12,False,0
k_Bacteria	p_Chloroflexi	c_TK10	o_AKYG885	f_Dolo_23,False,1
k_Bacteria	p_Chloroflexi	c_TK10	o_B07_WMSP1	f__False,4
k_Bacteria	p_Chloroflexi	c_TK10	o_B07_WMSP1	f__False,2
k_Bacteria	p_Chloroflexi	c_TK17	o__	f__False,0

k__Bacteria	p__Chloroflexi	c__TK17	o__mle1-48	f__False,0
k__Bacteria	p__Chloroflexi	c__Thermomicrobia	__	__False,1
k__Bacteria	p__Chloroflexi	c__Thermomicrobia	o__JG30-KF-CM45	f__False,2
k__Bacteria	p__Cyanobacteria	c__4C0d-2	o__MLE1-12	f__False,7
k__Bacteria	p__Cyanobacteria	c__4C0d-2	o__SM1D11	f__False,0
k__Bacteria	p__Cyanobacteria	c__Chloroplast	o__Stramenopiles	f__False,6
k__Bacteria	p__Cyanobacteria	c__Chloroplast	o__Streptophyta	f__False,0
k__Bacteria	p__Cyanobacteria	c__ML635J-21	o__	f__False,0
k__Bacteria	p__Elusimicrobia	__	__	__False,0
k__Bacteria	p__Elusimicrobia	c__Elusimicrobia	__	__False,0
k__Bacteria	p__Elusimicrobia	c__Elusimicrobia	o__Elusimicrobiales	f__False,0
k__Bacteria	p__Elusimicrobia	c__Elusimicrobia	o__FAC88	f__False,0
k__Bacteria	p__Elusimicrobia	c__Elusimicrobia	o__Iib	f__False,5
k__Bacteria	p__Elusimicrobia	c__Elusimicrobia	o__MVP-88	f__False,5
k__Bacteria	p__Elusimicrobia	c__Elusimicrobia	o__	f__False,3
k__Bacteria	p__Fibrobacteres	c__Fibrobacteria	o__258ds10	f__False,0
k__Bacteria	p__Firmicutes	__	__	__False,4
k__Bacteria	p__Firmicutes	c__Bacilli	o__Bacillales	__False,1
k__Bacteria	p__Firmicutes	c__Bacilli	o__Bacillales	f__Bacillaceae,False,17
k__Bacteria	p__Firmicutes	c__Bacilli	o__Bacillales	f__Paenibacillaceae,False,18
k__Bacteria	p__Firmicutes	c__Bacilli	o__Bacillales	f__Planococcaceae,False,0
k__Bacteria	p__Firmicutes	c__Bacilli	o__Bacillales	f__Staphylococcaceae,False,0
k__Bacteria	p__Firmicutes	c__Bacilli	o__Bacillales	f__Thermoactinomycesetaceae,False,7
k__Bacteria	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Aerococcaceae,False,11
k__Bacteria	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Carnobacteriaceae,False,2
k__Bacteria	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Streptococcaceae,False,0
k__Bacteria	p__Firmicutes	c__Clostridia	__	__False,1
k__Bacteria	p__Firmicutes	c__Clostridia	o__Clostridiales	__False,46
k__Bacteria	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Clostridiaceae,False,44
k__Bacteria	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Gracilibacteraceae,False,37
k__Bacteria	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Lachnospiraceae,False,1
k__Bacteria	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Peptococcaceae,False,19
k__Bacteria	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Ruminococcaceae,False,0
k__Bacteria	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Symbiobacteriaceae,False,0
k__Bacteria	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Veillonellaceae,False,17
k__Bacteria	p__Firmicutes	c__Clostridia	o__Clostridiales	f__[Mogibacteriaceae],False,7
k__Bacteria	p__Firmicutes	c__Clostridia	o__Clostridiales	f__[Tissierellaceae],False,6
k__Bacteria	p__Firmicutes	c__Clostridia	o__OPB54	f__False,9
k__Bacteria	p__GAL15	c__	o__	f__False,90
k__Bacteria	p__GN02	c__GKS2-174	o__	f__False,6
k__Bacteria	p__GN04	c__GN15	o__	f__False,8
k__Bacteria	p__GN04	c__MSB-5A5	o__	f__False,4
k__Bacteria	p__Gemmatimonadetes	__	__	__False,3
k__Bacteria	p__Gemmatimonadetes	c__	o__	f__False,40
k__Bacteria	p__Gemmatimonadetes	c__Gemm-1	o__	f__False,2
k__Bacteria	p__Gemmatimonadetes	c__Gemm-2	o__	f__True,103
k__Bacteria	p__Gemmatimonadetes	c__Gemm-5	o__	f__False,0
k__Bacteria	p__Gemmatimonadetes	c__Gemmatimonadetes	__	__False,0
k__Bacteria	p__Gemmatimonadetes	c__Gemmatimonadetes	o__	f__False,1
k__Bacteria	p__Gemmatimonadetes	c__Gemmatimonadetes	o__C114	f__False,4
k__Bacteria	p__Gemmatimonadetes	c__Gemmatimonadetes	o__KD8-87	f__False,2
k__Bacteria	p__MVP-21	c__	o__	f__False,3
k__Bacteria	p__NC10	c__12-24	o__MIZ17	f__False,3
k__Bacteria	p__Nitrospirae	c__Nitrospira	o__Nitrospirales	__False,5
k__Bacteria	p__Nitrospirae	c__Nitrospira	o__Nitrospirales	f__False,0
k__Bacteria	p__Nitrospirae	c__Nitrospira	o__Nitrospirales	f__0319-6A21,False,10
k__Bacteria	p__Nitrospirae	c__Nitrospira	o__Nitrospirales	f__Nitrospiraceae,False,22
k__Bacteria	p__Nitrospirae	c__Nitrospira	o__Nitrospirales	f__[Leptospirillaceae],False,0
k__Bacteria	p__OD1	__	__	__False,1
k__Bacteria	p__OD1	c__ABY1	o__	f__False,0
k__Bacteria	p__OD1	c__Mb-NB09	o__	f__False,5
k__Bacteria	p__OD1	c__SM2F11	o__	f__False,0
k__Bacteria	p__OD1	c__ZB2	o__	f__False,0
k__Bacteria	p__OP11	c__WCHB1-64	o__d153	f__False,5
k__Bacteria	p__OP3	c__PBS-25	o__	f__False,2
k__Bacteria	p__OP3	c__koll11	o__	f__False,1
k__Bacteria	p__Planctomycetes	__	__	__False,9
k__Bacteria	p__Planctomycetes	c__BD7-11	o__	f__False,4
k__Bacteria	p__Planctomycetes	c__OM190	o__CL500-15	f__False,0
k__Bacteria	p__Planctomycetes	c__OM190	o__agg27	f__False,5
k__Bacteria	p__Planctomycetes	c__Phycisphaerae	o__CCM11a	f__False,2

k__Bacteria	p__Planctomycetes	c__Phycisphaerae	o__Phycisphaerales	f__False,0
k__Bacteria	p__Planctomycetes	c__Phycisphaerae	o__Pla1	f__False,9
k__Bacteria	p__Planctomycetes	c__Phycisphaerae	o__S-70	f__False,9
k__Bacteria	p__Planctomycetes	c__Phycisphaerae	o__WD2101	f__False,10
k__Bacteria	p__Planctomycetes	c__Pla3	o__	f__False,2
k__Bacteria	p__Planctomycetes	c__Pla4	o__	f__False,6
k__Bacteria	p__Planctomycetes	c__Planctomycetia	__	__False,0
k__Bacteria	p__Planctomycetes	c__Planctomycetia	o__B97	f__False,3
k__Bacteria	p__Planctomycetes	c__Planctomycetia	o__Gemmatales	__False,4
k__Bacteria	p__Planctomycetes	c__Planctomycetia	o__Gemmatales	f__Gemmataceae,False,24
k__Bacteria	p__Planctomycetes	c__Planctomycetia	o__Pirellulales	f__Pirellulaceae,False,8
k__Bacteria	p__Planctomycetes	c__Planctomycetia	o__Planctomycetales	f__Planctomycetaceae,False,6
k__Bacteria	p__Proteobacteria	__	__	__False,1
k__Bacteria	p__Proteobacteria	c__	o__	f__False,0
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__	__False,4
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__BD7-3	f__False,0
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Caulobacterales	f__Caulobacteraceae,False,1
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Ellin329	f__False,0
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rhizobiales	__False,7
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rhizobiales	f__False,20
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rhizobiales	f__Bradyrhizobiaceae,False,6
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rhizobiales	f__Hyphomicrobiaceae,False,8
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rhizobiales	f__Methylocystaceae,False,3
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rhizobiales	f__Phyllobacteriaceae,False,33
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rhizobiales	f__Rhizobiaceae,False,0
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rhizobiales	f__Rhodobiaceae,False,5
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rhizobiales	f__Xanthobacteraceae,False,0
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rhodobacterales	f__Hyphomonadaceae,False,12
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rhodobacterales	f__Rhodobacteraceae,False,0
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rhodospirillales	__False,1
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rhodospirillales	f__False,2
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rhodospirillales	f__Rhodospirillaceae,False,13
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rickettsiales	f__False,1
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rickettsiales	f__Holosporaceae,False,4
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Rickettsiales	f__Rickettsiaceae,False,0
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Sphingomonadales	__False,0
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Sphingomonadales	f__Erythrobacteraceae,False,0
k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria	o__Sphingomonadales	f__Sphingomonadaceae,False,13
k__Bacteria	p__Proteobacteria	c__Betaproteobacteria	__	__False,6
k__Bacteria	p__Proteobacteria	c__Betaproteobacteria	o__	f__False,1
k__Bacteria	p__Proteobacteria	c__Betaproteobacteria	o__A21b	f__EB1003,False,2
k__Bacteria	p__Proteobacteria	c__Betaproteobacteria	o__Burkholderiales	__False,14
k__Bacteria	p__Proteobacteria	c__Betaproteobacteria	o__Burkholderiales	f__Burkholderiaceae,False,0
k__Bacteria	p__Proteobacteria	c__Betaproteobacteria	o__Burkholderiales	f__Comamonadaceae,False,7
k__Bacteria	p__Proteobacteria	c__Betaproteobacteria	o__Burkholderiales	f__Oxalobacteraceae,False,2
k__Bacteria	p__Proteobacteria	c__Betaproteobacteria	o__IS-44	f__False,6
k__Bacteria	p__Proteobacteria	c__Betaproteobacteria	o__MND1	f__False,14
k__Bacteria	p__Proteobacteria	c__Betaproteobacteria	o__Methylophilales	f__Methylophilaceae,False,6
k__Bacteria	p__Proteobacteria	c__Betaproteobacteria	o__Neisseriales	f__Neisseriaceae,False,0
k__Bacteria	p__Proteobacteria	c__Betaproteobacteria	o__Procabacteriales	f__Procabacteriaceae,False,1
k__Bacteria	p__Proteobacteria	c__Betaproteobacteria	o__SC-I-84	f__False,1
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	__	__False,0
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__Bdellovibrionales	f__Bacteriovoracaceae,False,1
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__Bdellovibrionales	f__Bdellovibrionaceae,False,9
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__Desulfuromonadales	f__Geobacteraceae,False,8
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__FAC87	f__False,0
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__MIZ46	f__False,0
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__Myxococcales	__False,0
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__Myxococcales	f__False,4
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__Myxococcales	f__O319-6G20,False,0
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__Myxococcales	f__Cystobacteraceae,False,0
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__Myxococcales	f__Cystobacterineae,False,4
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__Myxococcales	f__Haliangiaceae,False,0
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__Myxococcales	f__Myxococcaceae,False,0
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__Myxococcales	f__Nannocystaceae,False,1
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__Myxococcales	f__OM27,False,1
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__Myxococcales	f__Polyangiaceae,False,7
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__NB1-j	__False,4
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__NB1-j	f__False,1
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__NB1-j	f__NB1-i,False,89
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__Spirobacillales	f__False,0

k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__Sva0853	f__JTB36,False,2
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__Syntrophobacteriales	f__Syntrophobacteraceae,False,7
k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria	o__[Enotheonellales]	f__[Enotheonellaceae],False,0
k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria	__	__,False,17
k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria	o__Alteromonadales	f__211ds20,False,4
k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria	o__Chromatiales	__,False,0
k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria	o__Enterobacteriales	f__Enterobacteriaceae,False,0
k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria	o__HTCC2188	f__HTCC2089,False,2
k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria	o__Legionellales	__,True,110
k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria	o__Legionellales	f__,False,3
k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria	o__Legionellales	f__Coxiellaceae,False,9
k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria	o__Legionellales	f__Legionellaceae,False,50
k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria	o__Pasteurellales	f__Pasteurellaceae,False,7
k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria	o__Pseudomonadales	f__Moraxellaceae,False,1
k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria	o__Pseudomonadales	f__Pseudomonadaceae,False,4
k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria	o__Thiotrichales	f__Piscirickettsiaceae,False,0
k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria	o__Vibrionales	f__Vibrionaceae,False,6
k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria	o__Xanthomonadales	f__Sinobacteraceae,False,9
k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria	o__Xanthomonadales	f__Xanthomonadaceae,False,8
k__Bacteria	p__Proteobacteria	c__TA18	o__PHOS-HD29	f__,False,2
k__Bacteria	p__SBR1093	c__	o__	f__,False,15
k__Bacteria	p__Spirochaetes	c__[Leptospirae]	o__[Leptospirales]	f__Leptospiraceae,False,2
k__Bacteria	p__TM6	__	__	__,False,6
k__Bacteria	p__TM6	c__SBRH58	o__	f__,False,1
k__Bacteria	p__TM6	c__SJA-4	__	__,False,5
k__Bacteria	p__TM6	c__SJA-4	o__	f__,False,21
k__Bacteria	p__TM6	c__SJA-4	o__S1198	f__,False,0
k__Bacteria	p__TM6	c__SJA-4	o__YJF2-48	f__,False,29
k__Bacteria	p__TM7	__	__	__,False,0
k__Bacteria	p__TM7	c__	o__	f__,False,0
k__Bacteria	p__TM7	c__MJK10	o__	f__,False,1
k__Bacteria	p__TM7	c__SC3	o__	f__,False,0
k__Bacteria	p__TM7	c__TM7-1	o__	f__,False,33
k__Bacteria	p__TM7	c__TM7-3	o__	f__,False,2
k__Bacteria	p__TM7	c__TM7-3	o__EW055	f__,False,1
k__Bacteria	p__TM7	c__TM7-3	o__J025	f__,False,0
k__Bacteria	p__Tenericutes	c__Mollicutes	o__Anaeroplasmatales	f__Anaeroplasmataceae,False,3
k__Bacteria	p__Verrucomicrobia	__	__	__,False,1
k__Bacteria	p__Verrucomicrobia	c__Opitutae	__	__,False,26
k__Bacteria	p__Verrucomicrobia	c__Opitutae	o__Opitutales	f__Opitutaceae,False,4
k__Bacteria	p__Verrucomicrobia	c__Verrucomicrobiae	o__Verrucomicrobiales	f__Verrucomicrobiaceae,False,2
k__Bacteria	p__Verrucomicrobia	c__[Methylacidiphilae]	o__Methylacidiphilales	f__LD19,False,1
k__Bacteria	p__Verrucomicrobia	c__[Methylacidiphilae]	o__S-BQ2-57	f__,False,0
k__Bacteria	p__Verrucomicrobia	c__[Pedosphaerae]	o__[Pedosphaerales]	__,False,0
k__Bacteria	p__Verrucomicrobia	c__[Pedosphaerae]	o__[Pedosphaerales]	f__,False,0
k__Bacteria	p__Verrucomicrobia	c__[Pedosphaerae]	o__[Pedosphaerales]	f__Ellin515,False,15
k__Bacteria	p__Verrucomicrobia	c__[Pedosphaerae]	o__[Pedosphaerales]	f__Ellin517,False,0
k__Bacteria	p__Verrucomicrobia	c__[Pedosphaerae]	o__[Pedosphaerales]	f__OPB35,False,6
k__Bacteria	p__Verrucomicrobia	c__[Pedosphaerae]	o__[Pedosphaerales]	f__auto67_4W,False,0
k__Bacteria	p__Verrucomicrobia	c__[Spartobacteria]	o__[Chthoniobacteriales]	f__[Chthoniobacteraceae],False,9
k__Bacteria	p__WS2	c__SHA-109	o__	f__,False,3
k__Bacteria	p__WS3	c__PRR-12	o__LD1-PA13	f__,False,0
k__Bacteria	p__WS3	c__PRR-12	o__Sediment-1	f__,False,0
k__Bacteria	p__WS3	c__PRR-12	o__Sediment-1	f__PRR-10,False,5
k__Bacteria	p__WS6	c__B142	o__	f__,False,1
k__Bacteria	p__[Caldithrix]	c__KSB1	o__Ucn15732	f__,False,2