

S7 Table. ANCOM summary based on G2 comparison.

,Reject null hypothesis,W

Unassigned	—	—	—	__,False,0
k__Archaea	—	—	—	__,False,0
k__Archaea	p__Crenarchaeota	c__MBGA	—	__,False,0
k__Archaea	p__Crenarchaeota	c__MBGA	o__	f__,False,0
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k__Archaea	p__Crenarchaeota	c__Thaumarchaeota	o__Cenarchaeales	__,False,0
k__Archaea	p__Crenarchaeota	c__Thaumarchaeota	o__Cenarchaeales	f__,False,0
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k__Archaea	p__Crenarchaeota	c__Thaumarchaeota	o__Nitrososphaerales	f__Nitrososphaeraceae,False,0
k__Archaea	p__Euryarchaeota	—	—	__,False,0
k__Archaea	p__Euryarchaeota	c__Thermoplasmata	o__E2	__,False,0
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k__Archaea	p__Euryarchaeota	c__Thermoplasmata	o__E2	f__[Methanomassiliicoccaceae],False,0
k__Archaea	p__[Parvarchaeota]	c__[Parvarchaea]	o__WCHD3-30	f__,False,0
k__Archaea	p__[Parvarchaeota]	c__[Parvarchaea]	o__YLA114	f__,False,0
k__Bacteria	—	—	—	__,False,0
k__Bacteria	p__Acidobacteria	—	—	__,False,0
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k__Bacteria	p__Acidobacteria	c__Acidobacteria-5	o__	f__,False,0
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,0
k__Bacteria	p__Acidobacteria	c__Acidobacteria-6	o__iii1-15	__,False,0
k__Bacteria	p__Acidobacteria	c__Acidobacteria-6	o__iii1-15	f__,False,0
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k__Bacteria	p__Acidobacteria	c__Acidobacteria-6	o__iii1-15	f__mb2424,False,0
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k__Bacteria	p__Acidobacteria	c__DA052	o__E29	f__,False,0
k__Bacteria	p__Acidobacteria	c__DA052	o__Ellin6513	f__,False,0
k__Bacteria	p__Acidobacteria	c__EC1113	o__	f__,False,0
k__Bacteria	p__Acidobacteria	c__PAUC37f	o__	f__,False,0
k__Bacteria	p__Acidobacteria	c__RB25	o__	f__,False,0
k__Bacteria	p__Acidobacteria	c__S035	o__	f__,False,0
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k__Bacteria	p__Acidobacteria	c__Sva0725	o__Sva0725	f__,False,0
k__Bacteria	p__Acidobacteria	c__TM1	o__	f__,False,0
k__Bacteria	p__Acidobacteria	c__[Chloracidobacteria]	—	__,False,0
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k__Bacteria	p__Bacteroidetes	c__[Saprospirae]	o__[Saprospirales]	__,False,0
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k__Bacteria	p__Chlorobi	c__BSV26	o__A89	f__,False,0
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k__Bacteria	p__Chloroflexi	c__Anaerolineae	o__SB-34	f__,False,0
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k__Bacteria	p__Chloroflexi	c__Anaerolineae	o__SBR1031	f__oc28,False,0
k__Bacteria	p__Chloroflexi	c__Anaerolineae	o__envOPS12	f__,False,0
k__Bacteria	p__Chloroflexi	c__Anaerolineae	o__pLW-97	f__,False,0
k__Bacteria	p__Chloroflexi	c__Chloroflexi	o__[Roseiflexales]	__,False,0
k__Bacteria	p__Chloroflexi	c__Chloroflexi	o__[Roseiflexales]	f__[Kouleothrixaceae],False,0

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k__Bacteria	p__Chloroflexi	c__Ktedonobacteria	o__Thermogemmatissporales	f__Thermogemmatissporaceae,False,0
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k__Bacteria	p__Elusimicrobia	c__Elusimicrobia	o__Ilb	f__False,0
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k__Bacteria	p__Firmicutes	__	__	__,False,0
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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__Thermoactinomycetaceae,False,0
k__Bacteria	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Aerococcaceae,False,0
k__Bacteria	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Carnobacteriaceae,False,0
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k__Bacteria	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Symbiobacteriaceae,False,0
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k__Bacteria	p__Firmicutes	c__Clostridia	o__Clostridiales	f__[Mogibacteriaceae],False,0
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k__Bacteria	p__GN04	c__MSB-5A5	o__	f__False,0
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k__Bacteria	p__Gemmatimonadetes	c__	o__	f__False,0
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k__Bacteria	p__Gemmatimonadetes	c__Gemmatimonadetes	o__C114	f__False,0
k__Bacteria	p__Gemmatimonadetes	c__Gemmatimonadetes	o__KD8-87	f__False,0
k__Bacteria	p__MVP-21	c__	o__	f__False,0
k__Bacteria	p__NC10	c__12-24	o__MIZ17	f__False,0

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k__Bacteria	p__Nitrospirae	c__Nitrospira	o__Nitrospirales	__,False,0
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k__Bacteria	p__Nitrospirae	c__Nitrospira	o__Nitrospirales	f__[Leptospirillaceae],False,0
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k__Bacteria	p__OD1	c__ABY1	o__	f__False,0
k__Bacteria	p__OD1	c__Mb-NB09	o__	f__False,0
k__Bacteria	p__OD1	c__SM2F11	o__	f__False,0
k__Bacteria	p__OD1	c__ZB2	o__	f__False,0
k__Bacteria	p__OP11	__	__	__,False,0
k__Bacteria	p__OP11	c__WCHB1-64	o__d153	f__False,0
k__Bacteria	p__OP3	c__PBS-25	o__	f__False,0
k__Bacteria	p__OP3	c__koll11	o__	f__False,0
k__Bacteria	p__OP3	c__koll11	o__GIF10	f__kjp58rc,False,0
k__Bacteria	p__Planctomycetes	__	__	__,False,0
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k__Bacteria	p__Planctomycetes	c__Planctomycetia	o__B97	f__False,0
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k__Bacteria	p__Verrucomicrobia	—	—	__,False,0
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k__Bacteria	p__WS3	c__PRR-12	o__wb1_H11	f__,False,0
k__Bacteria	p__WS6	c__B142	o__	f__,False,0
k__Bacteria	p__[Caldithrix]	c__KSB1	o__Ucn15732	f__,False,0