

## **Supplementary Figures to:**

# **Quo vadis? Microbial profiling of vicinal office, changing and clean rooms reveal clearly different microbiomes and routes of contamination**

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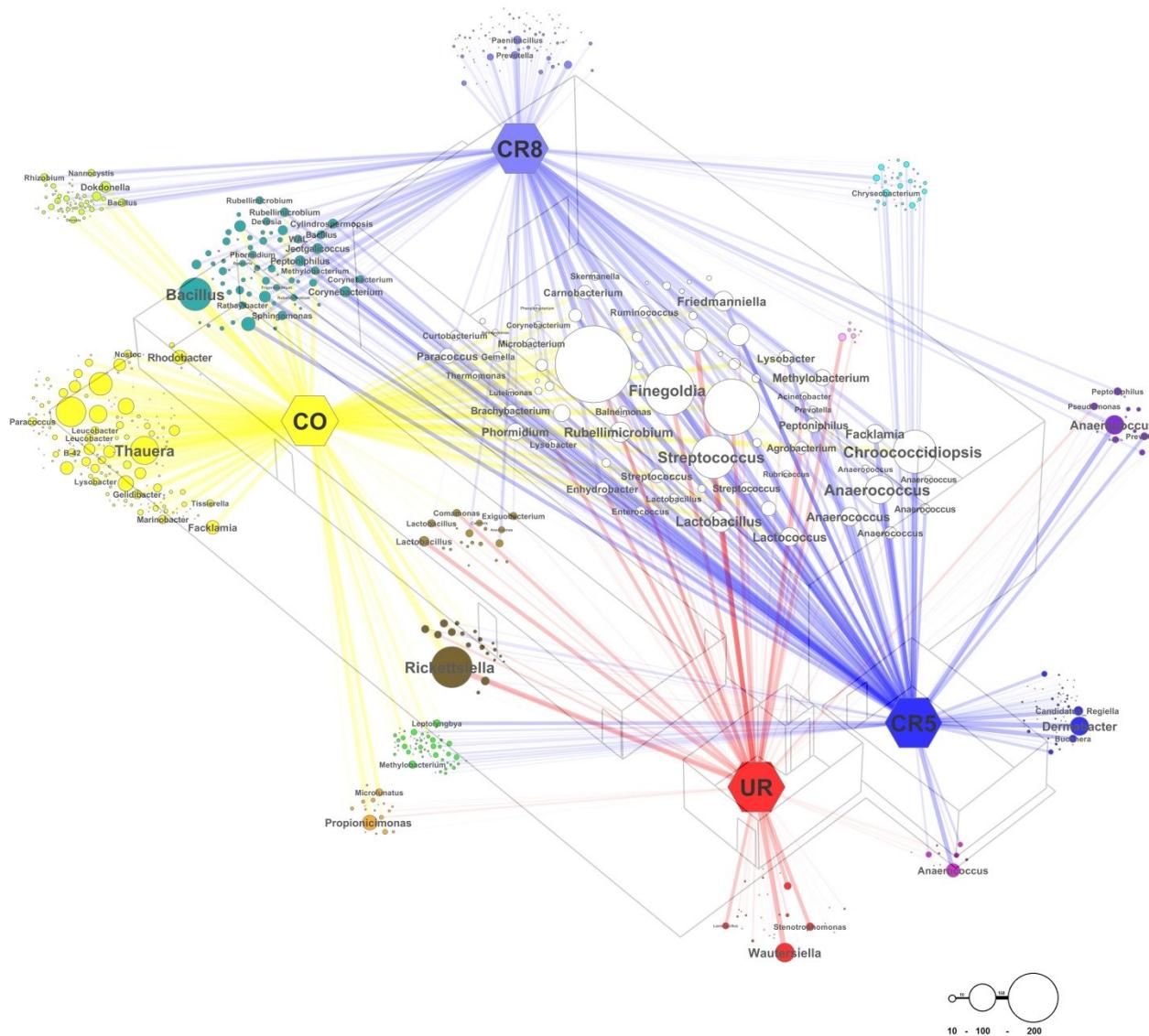
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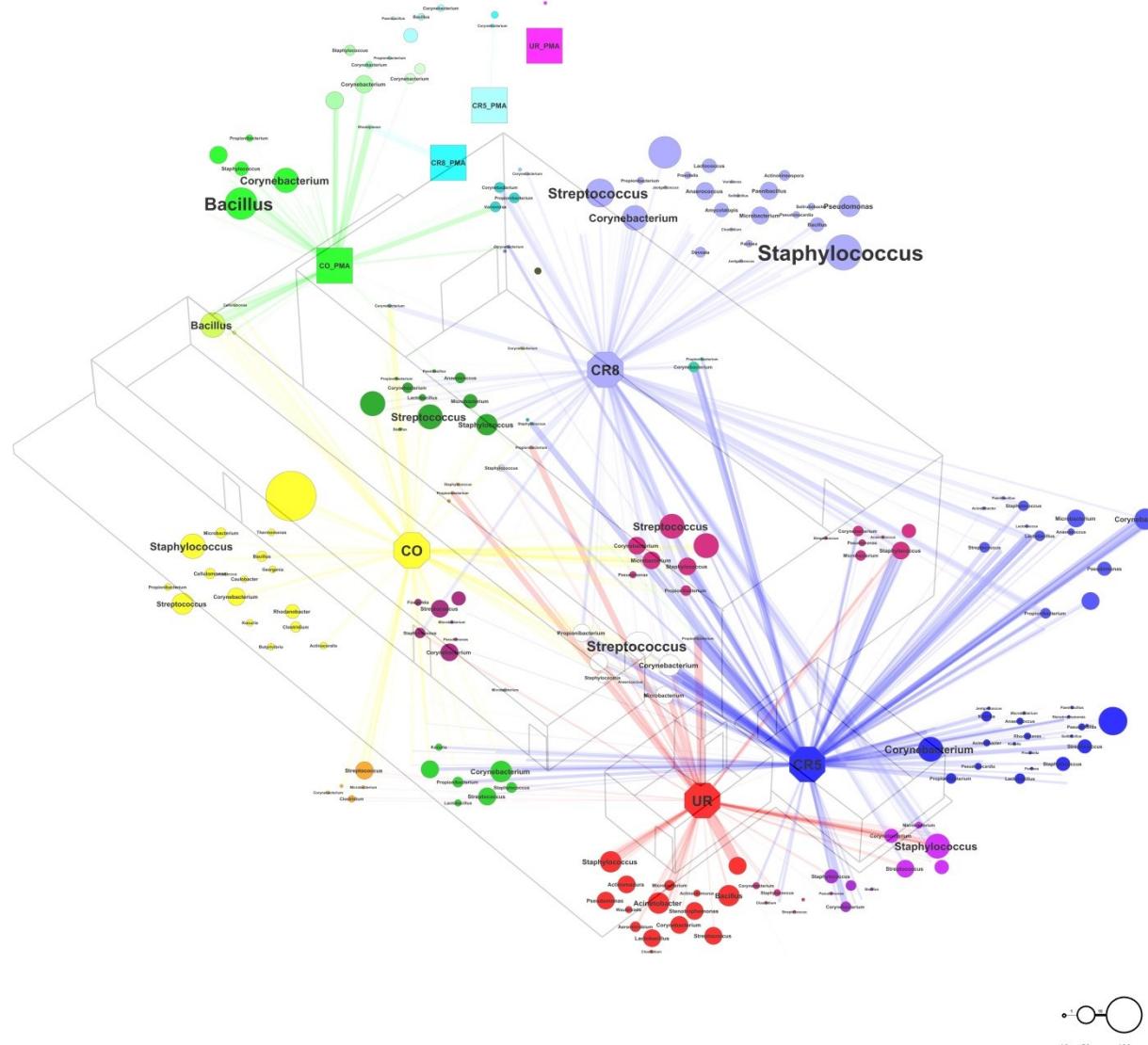
## Supplementary Fig. S1:

Network analysis of pOTUs from pyrotagsequencing data visualized with the Cytoscape 2.8.3 layout edge-weighted spring embedded eweights. Samples from four different rooms are displayed as hexagonal nodes on an abstracted map of the clean room facility in colors yellow (CO – check out room), red (UR – changing room), light blue (CR8 – ISO8 clean room) and dark blue (CR5 – ISO5 clean room). pOTUs are displayed as nodes. Node color is defined by sample source and respective color mixtures (according to Itten's color circle) are used for shared pOTUs. pOTUs resolved till genus level are labelled. Node and font size represents abundance of pOTUs (score is indicated in the legend below). Edge width and opacity correlates with respective eweights (edge weights represent sequence abundance in respective pOTUs). Network layout (pOTUs distance) was slightly modified to fit on the abstracted map.



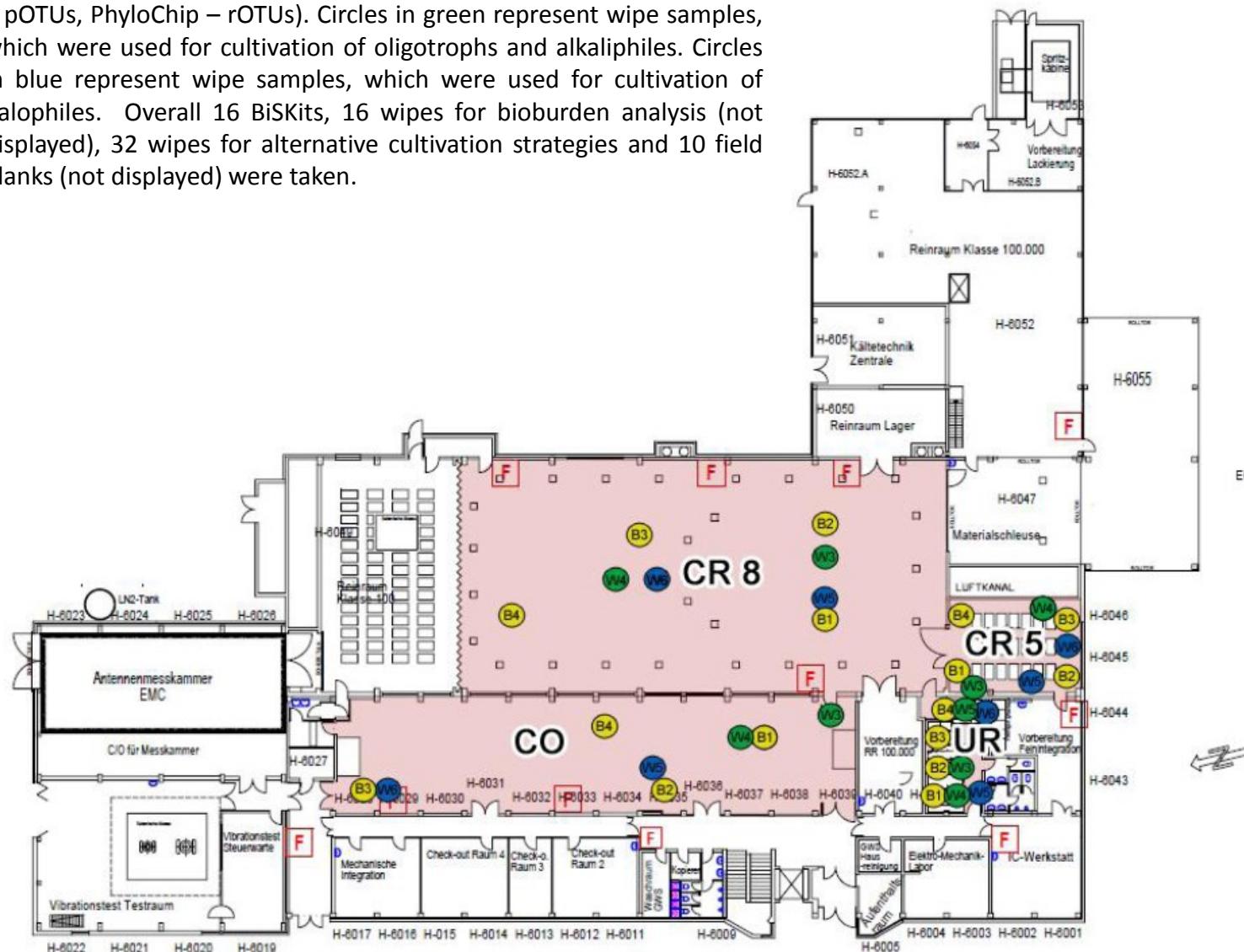
Supplementary Fig. S2:

Network analysis of rOTUs from PhyloChip data (based on binary incidences table) using Cytoscape 2.8.3 layout edge-weighted spring embedded eweights. Samples from four different rooms are displayed as octagonal nodes on an abstracted map of the clean room facility in colors yellow (CO – check out room), red (UR – changing room), light blue (CR8 – ISO8 clean room) and dark blue (CR5 – ISO5 clean room) and their corresponding PMA treated samples are shown as squares in green (CO\_PMA), magenta (UR\_PMA) and cyan (CR8\_PMA and CR5\_PMA). rOTUs are displayed as nodes. Node color is defined by sample source and respective color mixtures (according to Itten's color circle) are used for shared rOTUs. rOTUs resolved till genus level are labelled. Node and font size represents abundance of rOTUs (score is indicated in the legend below). Edge width and opacity correlates with respective eweights (edge weights represent sequence abundance in respective rOTUs). Network layout (rOTUs distance) was slightly modified to fit on the abstracted map.



### Supplementary Fig. S3:

Layout of the integration center at Airbus Defence and Space GmbH in Friedrichshafen, Germany. Sampled rooms are highlighted in red and designated as follows: UR – changing room, CO – checkout room, CR8 – ISO 8 clean room, CR5 – ISO 5 clean room. Sample location were marked as follows: Circles in yellow represent BiSKit samples, which were used for molecular analysis (cloning – cOTUs, pyrotagsequencing – pOTUs, PhyloChip – rOTUs). Circles in green represent wipe samples, which were used for cultivation of oligotrophs and alkaliphiles. Circles in blue represent wipe samples, which were used for cultivation of halophiles. Overall 16 BiSKits, 16 wipes for bioburden analysis (not displayed), 32 wipes for alternative cultivation strategies and 10 field blanks (not displayed) were taken.



## **Supplementary Tables to:**

# **Quo vadis? Microbial profiling of vicinal office, changing and clean rooms reveal clearly different microbiomes and routes of contamination**

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Table S1: Colony forming units (CFUs) obtained from wipe samples (alternative cultivation with respect to oligotrophs and alkaliphiles). Sd: standard deviation. Rsd: relative standard deviation.

Oligotrophs										pH10										
CO	technical replicate	CFUs	CFU/m^2	mean	sd	rsd	total mean	sd	rsd	CO	technical replicate	CFUs	CFU/m^2	mean	sd	rsd	total mean	sd	rsd	
Wipe CO_W3	CO_W3a	4								Wipe CO_W3	CO_W3a	0								
	CO_W3b	2									CO_W3b	0								
	CO_W3c	3									CO_W3c	0								
	CO_W3d	6									CO_W3d	0								
	CO_W3e	14	644	5.80	4.31	0.74					CO_W3e	0	0	0	0	0				
	CO_W4a	26									CO_W4a	12								
	CO_W4b	47									CO_W4b	11								
	CO_W4c	45									CO_W4c	12								
	CO_W4d	19									CO_W4d	11								
	CO_W4e	43	4000	36.00	11.31	0.31	20.90	17.36	0.83		CO_W4e	9	1222	11	1.095445115	0.10	5.50	5.55	1.01	
Wipe CO_W4	UR	technical replicate	CFUs	CFU/m^2	mean	sd	rsd	total mean	sd	rsd	UR	technical replicate	CFUs	CFU/m^2	mean	sd	rsd	total mean	sd	rsd
	UR_W3a	67								UR_W3a	24									
	UR_W3b	76								UR_W3b	36									
	UR_W3c	81								UR_W3c	28									
	UR_W3d	122								UR_W3d	27									
	UR_W3e	123	10422	93.80	23.86	0.25				UR_W3e	21	3022	27.2	5.035871325	0.19					
	UR_W4a	208								UR_W4a	6									
	UR_W4b	214								UR_W4b	9									
	UR_W4c	229								UR_W4c	11									
	UR_W4d	207								UR_W4d	3									
	UR_W4e	218	23911	215.20	7.98	0.04	154.50	63.25	0.41	UR_W4e	2	689	6.2	3.42928564	0.55	16.70	11.35	0.68		
Wipe UR_W4	CR8	technical replicate	CFUs	CFU/m^2	mean	sd	rsd	total mean	sd	rsd	CR8	technical replicate	CFUs	CFU/m^2	mean	sd	rsd	total mean	sd	rsd
	CR8_W3a	1								CR8_W3a	0									
	CR8_W3b	0								CR8_W3b	0									
	CR8_W3c	2								CR8_W3c	0									
	CR8_W3d	2								CR8_W3d	0									
	CR8_W3e	1	133	1.20	0.75	0.62				CR8_W3e	0	0	0	0	0					
	CR8_W4a	353								CR8_W4a	0									
	CR8_W4b	227								CR8_W4b	0									
	CR8_W4c	437								CR8_W4c	0									
	CR8_W4d	282								CR8_W4d	0									
	CR8_W4e	192	33133	298.20	88.18	0.30	149.70	161.06	1.08	CR8_W4e	0	0	0	0	0	0.00	0.00			
Wipe CR8_W4	CR5	technical replicate	CFUs	CFU/m^2	mean	sd	rsd	total mean	sd	rsd	CR5	technical replicate	CFUs	CFU/m^2	mean	sd	rsd	total mean	sd	rsd
	CR5_W3a	0								CR5_W3a	0									
	CR5_W3b	2								CR5_W3b	0									
	CR5_W3c	0								CR5_W3c	0									
	CR5_W3d	0								CR5_W3d	0									
	CR5_W3e	0	44	0.40	0.80	2.00				CR5_W3e	0	0	0	0	0					
	CR5_W4a	13								CR5_W4a	0									
	CR5_W4b	2								CR5_W4b	2									
	CR5_W4c	2								CR5_W4c	2									
	CR5_W4d	8								CR5_W4d	0									
	CR5_W4e	8	733	6.60	4.18	0.63	3.50	4.32	1.23	CR5_W4e	0	89	0.8	0.979795897	1.22	0.40	0.80	2.00		

Table S2: Number of isolated microorganisms under different cultivation conditions and from different samples

Table S3: Number of clones processed from each sample, number of singular OTUs and coverage.

sample	CR 5	CR 8	CO	UR	CR 5-PMA	CR 8-PMA	CO-PMA	UR-PMA	EB
<b>No. of clones picked</b>	144	168	96	96	48	48	48	48	96
Chimera	9	12	15	16	0	0	0	0	0
<b>No. of clones processed after quality filtering</b>	80	71	52	51	43	47	44	45	86
<b>No. of singular OTUs</b>	25	30	27	22	1	1	5	8	4
<b>Coverage</b>	0.69	0.58	0.48	0.57	0.98	0.98	0.87	0.82	0.95

Table S4 (part A): Accession numbers, abundance and taxonomic affiliation of detected bacterial 16S rRNA genes by classical gene cloning of samples from different locations, with or without PMA treatment

Acc. No.	samples			samples, PMA treated			taxonomic classification of bacterial 16S rRNA genes						
	UR	CO	CR8	CR5	UR_PMA	CO_PMA	CR8_PMA	CR5_PMA	phylum	class	order	family	genus
JQ855629	0	1	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Acidimicrobiales	CL500-29	unclassified
JQ855658	2	0	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Brevibacteriaceae	Brevibacterium
JQ855550	0	0	1	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Cellulomonadaceae	Actinotalea
JQ855601	0	1	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Cellulomonadaceae	Demequina
JQ855613	0	2	0	1	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Cellulomonadaceae	unclassified
JQ855529	0	1	0	4	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855530	0	0	2	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855541	1	1	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855545	0	3	0	1	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855561	0	0	2	10	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855563	0	0	1	0	0	0	0	1	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855564	0	0	0	1	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855592	0	1	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855600	0	0	0	6	1	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855608	0	0	0	1	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855609	0	0	0	1	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855614	0	1	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855615	0	0	1	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855619	0	0	1	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855620	0	1	0	2	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855622	0	0	0	10	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855630	0	0	0	1	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium
JQ855560	1	0	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Dermabacteraceae	Brachybacterium
JQ855531	0	0	1	4	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Dermabacteraceae	Dermabacter
JQ855548	0	2	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Intrasporangiaceae	unclassified
JQ855599	0	1	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Intrasporangiaceae	unclassified
JQ855611	0	1	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Intrasporangiaceae	unclassified
JQ855596	0	0	0	1	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Kineosporiaceae	unclassified
JQ855570	0	0	1	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Micromicrobacteriaceae	Agreia
JQ855583	0	0	0	0	1	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Micromicrobacteriaceae	Microbacterium
JQ855626	0	0	0	1	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Micromicrobacteriaceae	Microbacterium
JQ855593	0	0	1	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Micromicrobacteriaceae	Rathayibacter
JQ855576	1	0	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Kocuria
JQ855632	1	0	0	1	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Kocuria
JQ855612	0	0	1	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus
JQ855635	3	0	2	1	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus
JQ855509	0	1	1	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Friedmanniella
JQ855597	0	0	0	1	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Friedmanniella
JQ855617	0	1	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Friedmanniella
JQ855551	1	0	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Marmorcola
JQ855536	0	0	1	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides
JQ855565	0	0	1	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides
JQ855587	0	0	0	0	0	1	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionicimonas
JQ855532	0	0	1	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	unclassified
JQ855578	0	1	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	unclassified
JQ855633	0	0	0	1	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	unclassified
JQ855579	0	0	1	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Promicromonoporateae	Cellulosimicrobium
JQ855605	0	3	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Propionibacteriaceae	Microlunatus
JQ855520	0	0	2	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Propionibacteriaceae	Propionibacterium
JQ855543	5	2	12	4	2	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Propionibacteriaceae	Propionibacterium
JQ855627	0	0	1	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Sanguibacteraceae	Sanguibacter
JQ855526	0	1	2	1	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	unclassified	unclassified
JQ855590	1	0	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	unclassified	unclassified
JQ855598	0	0	0	1	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	unclassified	unclassified
JQ855604	0	0	0	1	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	unclassified	unclassified
JQ855628	0	1	0	0	0	0	0	0	Actinobacteria	Actinobacteria	Actinomycetales	unclassified	unclassified
JQ855562	1	0	0	0	0	0	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Cryomorphaceae	unclassified
JQ855621	1	0	0	0	0	0	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Chryseobacterium
JQ855623	0	1	1	0	0	0	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Chryseobacterium
JQ855555	0	1	0	2	0	0	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Flavobacterium
JQ855616	0	0	2	0	0	0	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Flavobacterium
JQ855534	0	0	1	1	0	1	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Chitinophagaceae	unclassified
JQ855571	0	2	1	0	0	0	0	0	Cyanobacteria	Oscillatoriophycidea	Cyanoctales	Xenococcaceae	Chroococcidiopsis
JQ855573	0	2	2	0	0	0	0	0	Cyanobacteria	Oscillatoriophycidea	Cyanoctales	Xenococcaceae	Chroococcidiopsis
JQ855580	0	0	1	0	1	0	0	0	Cyanobacteria	Oscillatoriophycidea	Cyanoctales	Xenococcaceae	Chroococcidiopsis
JQ855618	0	0	0	1	0	0	0	0	Cyanobacteria	Oscillatoriophycidea	Cyanoctales	Xenococcaceae	Chroococcidiopsis

Table S4 (part B): Accession numbers, abundance and taxonomic affiliation of detected bacterial 16S rRNA genes by classical gene cloning of samples from different locations, with or without PMA treatment

Acc. No.	samples				samples, PMA treated				taxonomic classification of bacterial 16S rRNA genes				
	UR	CO	CR8	CR5	UR_PMA	CO_PMA	CR8_PMA	CR5_PMA	phylum	class	order	family	genus
JQ855558	0	2	0	0	0	5	0	0	Firmicutes	Bacillii	Bacillales	Bacillaceae	Bacillus
JQ855594	0	3	0	0	0	0	0	0	Firmicutes	Bacillii	Bacillales	Bacillaceae	Bacillus
JQ855634	0	1	0	0	0	0	0	0	Firmicutes	Bacillii	Bacillales	Planococcaceae	Rummelilibacillus
JQ855535	2	0	0	0	0	0	0	0	Firmicutes	Bacillii	Bacillales	Staphylococcaceae	Jeotgalicoccus
JQ855539	1	0	1	0	0	0	0	0	Firmicutes	Bacillii	Bacillales	Staphylococcaceae	Jeotgalicoccus
JQ855510	2	1	11	4	1	0	1	0	Firmicutes	Bacillii	Bacillales	Staphylococcaceae	Staphylococcus
JQ855511	1	0	0	0	0	0	0	0	Firmicutes	Bacillii	Bacillales	Staphylococcaceae	Staphylococcus
JQ855518	0	0	0	1	0	0	0	0	Firmicutes	Bacillii	Bacillales	Staphylococcaceae	Staphylococcus
JQ855533	1	0	0	0	0	0	0	0	Firmicutes	Bacillii	Bacillales	Staphylococcaceae	Staphylococcus
JQ855567	1	0	0	0	0	0	0	0	Firmicutes	Bacillii	Bacillales	Staphylococcaceae	Staphylococcus
JQ855610	0	0	1	0	0	0	0	0	Firmicutes	Bacillii	Bacillales	Staphylococcaceae	Staphylococcus
JQ855606	0	0	0	3	0	0	0	0	Firmicutes	Bacillii	Lactobacillales	Aerococcaceae	unclassified
JQ855544	1	0	0	0	0	0	0	0	Firmicutes	Bacillii	Lactobacillales	Lactobacillaceae	Lactobacillus
JQ855521	0	0	1	0	0	0	0	0	Firmicutes	Bacillii	Lactobacillales	Streptoccaceae	Streptococcus
JQ855522	1	0	0	2	1	0	0	0	Firmicutes	Bacillii	Lactobacillales	Streptoccaceae	Streptococcus
JQ855528	0	0	0	1	0	0	0	0	Firmicutes	Bacillii	Lactobacillales	Streptoccaceae	Streptococcus
JQ855572	0	0	1	0	0	0	0	0	Firmicutes	Bacillii	Lactobacillales	Streptoccaceae	Streptococcus
JQ855595	0	0	0	0	0	2	0	0	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Clostridium
JQ855538	0	2	0	2	0	0	0	0	Firmicutes	Clostridia	Clostridiales	Clostridiales_Family_XI_Incertae_Sed	Anaerococcus
JQ855631	0	0	2	0	0	0	0	0	Firmicutes	Clostridia	Clostridiales	Clostridiales_Family_XI_Incertae_Sed	Finegoldia
JQ855525	0	0	2	0	0	0	0	0	Firmicutes	Clostridia	Clostridiales	Clostridiales_Family_XI_Incertae_Sed	Peptoniphilus
JQ855527	0	0	0	0	0	1	0	0	Firmicutes	Clostridia	Clostridiales	Clostridiales_Family_XI_Incertae_Sed	Tissierella
JQ855537	0	1	0	0	0	0	0	0	Firmicutes	Clostridia	Clostridiales	Clostridiales_Family_XI_Incertae_Sed	Tissierella
JQ855584	0	0	0	0	1	0	0	0	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas
JQ855588	0	1	0	0	0	0	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	unclassified
JQ855566	0	1	0	1	0	0	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Agrobacterium
JQ855585	0	1	0	0	0	0	0	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Amaricoccus
JQ855513	0	0	1	0	0	0	0	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus
JQ855559	0	1	0	0	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus
JQ855554	0	1	0	0	0	0	0	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae	unclassified
JQ855625	0	2	0	0	0	0	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadale	Sphingomonadaceae	Sphingobium
JQ855517	0	0	1	0	0	0	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadale	Sphingomonadaceae	Sphingomonas
JQ855577	0	0	0	1	0	0	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadale	Sphingomonadaceae	Sphingomonas
JQ855586	0	1	0	0	0	0	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadale	Sphingomonadaceae	Sphingomonas
JQ855542	0	0	0	0	1	0	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Burkholderiaceae	Ralstonia
JQ855582	1	0	0	0	0	0	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Acidovorax
JQ855552	1	0	0	0	0	0	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Variovorax
JQ855512	1	0	0	1	0	0	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	Massilia
JQ855575	6	0	0	0	0	0	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	Massilia
JQ855581	1	0	0	0	0	0	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	Massilia
JQ855624	0	0	2	0	0	0	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	Massilia
JQ855540	1	0	1	0	0	1	0	0	Proteobacteria	Deltaproteobacteria	Myxococcales	unclassified	unclassified
JQ855549	2	0	0	0	0	0	0	0	Proteobacteria	Gammaproteobacter	Legionellales	Coxiellaceae	Rickettsiella
JQ855556	7	0	0	0	9	0	0	0	Proteobacteria	Gammaproteobacter	Legionellales	Coxiellaceae	Rickettsiella
JQ855569	1	0	0	0	0	0	0	0	Proteobacteria	Gammaproteobacter	Legionellales	Coxiellaceae	Rickettsiella
JQ855591	0	0	0	0	1	0	0	0	Proteobacteria	Gammaproteobacter	Legionellales	Coxiellaceae	Rickettsiella
JQ855547	1	0	0	0	0	0	0	0	Proteobacteria	Gammaproteobacter	Pseudomonadales	Moraxellaceae	Acinetobacter
JQ855603	1	0	0	0	0	0	0	0	Proteobacteria	Gammaproteobacter	Pseudomonadales	Moraxellaceae	Acinetobacter
JQ855546	0	1	0	0	0	0	0	0	Proteobacteria	Gammaproteobacter	Xanthomonadales	Xanthomonadaceae	Lysobacter
JQ855589	0	0	1	0	0	0	0	0	Proteobacteria	Gammaproteobacter	Xanthomonadales	Xanthomonadaceae	Pseudoxanthomonas
JQ855533	0	0	1	0	0	0	0	0	SC4	unclassified	unclassified	unclassified	unclassified
JQ855514	0	0	0	1	0	0	0	0	Thermi	Deinococci	Deinococcaceae	Deinococcus	
JQ855607	0	0	1	0	0	0	0	0	Verrucomicrobi	Verrucomicrobiae	Verrucomicrobiaceae	Luteolibacter	

Table SS (part A): OTUs, no. of reads and corresponding taxonomic affiliation of detected bacterial 16S rRNA amplicons by 454 pyrotag sequencing. Please note, the data shown here was either rank normalized or sum normalized (to 5000 reads per sample) before performing statistical analysis as depicted in the manuscript.

taxonomic classification of bacterial 16S rRNA gene amplicons											
Samples and no. of reads		OTU	UR	CO	CR8	CR5	phylum	class	order	family	genus
50	0	1	0	2	Acidobacteria	Acidobacteriales	Acidobacteriaceae	unclassified			
176	0	0	2	0	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
204	2	0	0	0	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
258	0	1	0	1	Acidobacteria	Acidobacteriales	Acidobacteriaceae	unclassified			
303	0	1	0	0	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
341	1	1	0	2	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
367	0	0	1	0	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
390	0	1	0	0	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
397	1	0	0	0	Acidobacteria	Sva0725	unclassified	unclassified			
400	0	0	3	0	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
419	1	0	1	0	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
510	0	0	1	0	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
520	0	0	6	0	Acidobacteria	iil.8.4	DS_18	unclassified			
541	0	1	0	1	Acidobacteria	Acidobacteriales	Acidobacteriaceae	unclassified			
581	0	1	0	1	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
617	0	2	0	0	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
620	0	0	1	0	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
645	0	1	2	0	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
706	0	0	0	1	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
725	0	2	0	0	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
731	1	0	0	0	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
732	1	2	0	0	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
735	0	1	0	0	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
771	1	1	0	0	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
785	0	1	0	0	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
815	0	1	0	0	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
836	2	1	0	0	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
857	0	1	0	1	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
973	0	0	0	3	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
1050	0	0	0	1	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
1089	1	0	0	0	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
1137	0	0	1	1	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
1175	0	1	1	1	Acidobacteria	Acidobacteriales	Acidobacteriaceae	unclassified			
1196	0	0	0	1	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
1215	0	1	0	0	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
1223	0	0	0	1	Acidobacteria	Acidobacteriales	Acidobacteriaceae	unclassified			
1233	0	1	0	0	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
1349	1	1	0	0	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
1376	1	2	1	0	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
1388	0	1	0	0	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
1435	0	1	0	0	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
1487	0	2	0	0	Acidobacteria	Acidobacteriales	Acidobacteriaceae	unclassified			
1507	0	1	0	0	Acidobacteria	Acidobacteriales	Acidobacteriaceae	Terriglobus			
1537	0	1	0	0	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
1558	0	0	3	1	Acidobacteria	Acidobacteriales	Acidobacteriaceae	unclassified			
1570	0	1	0	1	Acidobacteria	iil.8.4	DS_20	unclassified			
1573	1	0	0	0	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
1592	0	0	1	0	Acidobacteria	iil.8.4	DS_20	unclassified			
1628	0	1	0	0	Acidobacteria	Solibacterales	Solibacteriaceae	Candidatus_Solibacter			
1644	0	1	0	0	Acidobacteria	Chloracidobacteriales	unclassified	unclassified			
10	0	1	1	0	Actinobacteria	Actinomycetales	Actinomycetaceae	CL500-29	unclassified		
21	0	1	0	0	Actinobacteria	Actinomycetales	Actinomycetaceae	CL500-29	unclassified		
31	0	0	1	0	Actinobacteria	Actinomycetales	Actinomycetaceae	CL500-29	unclassified		
37	0	1	4	8	Actinobacteria	Actinomycetales	Propionibacteriaceae	Propionibacterium	unclassified		
38	0	3	0	0	Actinobacteria	Actinomycetales	Propionibacteriaceae	Tessaracoccus	unclassified		
42	0	0	1	0	Actinobacteria	Actinomycetales	Acidimicrobales	Iamiaeace	lamiae		
59	0	37	0	0	Actinobacteria	Actinomycetales	Intrasporangiacaceae	unclassified			
63	0	2	1	0	Actinobacteria	Actinomycetales	Intrasporangiacaceae	unclassified			
66	0	0	0	1	Actinobacteria	Actinomycetales	Actinomycetaceae	CL500-29	unclassified		
81	0	2	0	0	Actinobacteria	Actinomycetales	Actinomycetaceae	Iamiaeace	lamiae		
82	0	1	0	0	Actinobacteria	Actinomycetales	Actinomycetaceae	CL500-29	unclassified		
86	0	0	2	5	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
88	1	3	5	5	Actinobacteria	Actinomycetales	Intrasporangiacaceae	Janibacter	unclassified		
90	0	0	1	0	Actinobacteria	Actinomycetales	Soliubrobacteriales	Conexibacteraceae	unclassified		
95	0	1	1	0	Actinobacteria	Actinomycetales	Microbacteriales	Microbacteriaceae	unclassified		
99	0	1	3	2	Actinobacteria	Actinomycetales	Microbacteriales	Nocardioidaceae	unclassified		
100	3	10	9	3	Actinobacteria	Actinomycetales	Microbacteriales	Microbacteriaceae	unclassified		
146	0	2	0	3	Actinobacteria	Actinomycetales	Micrococcaceae	unclassified			
152	0	1	1	1	Actinobacteria	Actinomycetales	Propionibacteriaceae	Tessaracoccus	unclassified		
163	2	0	1	2	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
171	0	1	0	0	Actinobacteria	Actinomycetales	Acidimicrobales	Dermabacteraceae	Brachybacterium		
177	0	1	2	0	Actinobacteria	Actinomycetales	Mycobacteriales	Conexibacteraceae	unclassified		
192	0	1	0	0	Actinobacteria	Actinomycetales	Microbacteriales	Coriobacteriaceae	Atopobium		
205	0	0	0	3	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	unclassified		
225	0	1	0	0	Actinobacteria	Actinomycetales	Nocardioidaceae	Adicimicrobales	Microthrixaceae	unclassified	
232	0	5	2	3	Actinobacteria	Actinomycetales	Microbacteriales	Nocardioidaceae	unclassified		
237	0	0	1	0	Actinobacteria	Actinomycetales	Propionibacteriaceae	Propionibacterium	unclassified		
249	0	2	0	0	Actinobacteria	Actinomycetales	Propionibacteriaceae	Propionibacterium	unclassified		
251	2	0	0	0	Actinobacteria	Actinomycetales	unclassified	unclassified			
257	0	0	1	0	Actinobacteria	Actinomycetales	Nocardioidaceae	unclassified			
259	0	1	2	0	Actinobacteria	Actinomycetales	Frankiaaceae	unclassified			
261	0	1	1	0	Actinobacteria	Actinomycetales	Frankiaaceae	Propionibacteriales	Tessaracoccus		
264	0	1	0	0	Actinobacteria	Actinomycetales	Soliubrobacteriales	Conexibacteraceae	unclassified		
280	0	0	4	4	Actinobacteria	Actinomycetales	Coriobacteriales	Coriobacteriaceae	unclassified		
284	0	0	1	0	Actinobacteria	Actinomycetales	Microbacteriales	Microbacteriaceae	unclassified		
294	0	1	0	0	Actinobacteria	Actinomycetales	Microbacteriales	Propionibacteriaceae	Propionibacterium		
303	0	3	0	0	Actinobacteria	Actinomycetales	Microbacteriales	Propionibacteriaceae	Tessaracoccus		
312	0	1	0	0	Actinobacteria	Actinomycetales	Patulibacteriales	Patulibacteraceae	unclassified		
316	0	5	0	0	Actinobacteria	Actinomycetales	Patulibacteriales	Tessaracoccus	unclassified		
321	0	2	0	0	Actinobacteria	Actinomycetales	Cellulomonadaceae	Demetziina	Brevibacterium		
328	1	0	0	0	Actinobacteria	Actinomycetales	Kinesioponaceae	unclassified			
345	0	0	1	0	Actinobacteria	Actinomycetales	Soliubrobacteriales	Conexibacteraceae	Sanguibacteraceae		
346	0	1	0	0	Actinobacteria	Actinomycetales	Intrasporangiacaceae	unclassified			
365	0	1	1	0	Actinobacteria	Actinomycetales	Propionibacteriaceae	Propionibacteriaceae	Propionibacterium		
371	2	0	2	2	Actinobacteria	Actinomycetales	Coriobacteriales	Coriobacteriaceae	Collinsella		
382	0	1	0	0	Actinobacteria	Actinomycetales	MC47	unclassified			
398	1	2	1	0	Actinobacteria	Actinomycetales	Propionibacteriaceae	unclassified			
404	0	3	0	0	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Friedmanniella		
407	0	5	0	0	Actinobacteria	Actinomycetales	Acidimicrobales	unclassified			

Table SS (part B): OTUs, no. of reads and corresponding taxonomic affiliation of detected bacterial 16S rRNA amplicons by 454 pyrotag sequencing. Please note, the data shown here was either rank normalized or sum normalized (to 5000 reads per sample) before performing statistical analysis as depicted in the manuscript.

taxonomic classification of bacterial 16S rRNA amplicons											
Samples and no. of reads	OTU	UR	CO	CR8	CR5	phylum	class	order	family	genus	
408	0	1	0	3	0	Actinobacteria	Actinomycetales	Microbacteriales	Leucobacteraceae	Leucobacter	
410	0	1	3	1	0	Actinobacteria	Actinomycetales	Noardioidaceae	Propionibacteriales	Propionibacterius	
412	0	1	1	0	0	Actinobacteria	Actinomycetales	Dermaccaceae	Dermaccaceae	Dermaccus	
418	0	0	3	1	5	Actinobacteria	Actinomycetales	Actinomycetales	Actinomycetaceae	Actinomycetes	
441	3	2	1	5	0	Actinobacteria	Actinomycetales	Corynebacteriales	Corynebacterium	Corynebacterium	
450	1	6	1	0	0	Actinobacteria	Actinomycetales	Microbacteriales	unclassified		
452	0	5	1	0	0	Actinobacteria	Actinomycetales	Actinomycetales	unclassified		
462	0	0	1	0	1	Actinobacteria	Actinomycetales	MC47	unclassified		
465	0	2	0	0	0	Actinobacteria	Actinomycetales	Noardioidaceae	Propionibacteriales	Gordonia	
470	0	0	0	3	1	Actinobacteria	Actinomycetales	Soliubrobacteriales	Conexibacteraceae	Gordonia	
472	0	1	1	0	0	Actinobacteria	Actinomycetales	Soliubrobacteriales	Conexibacteraceae	unclassified	
478	1	2	2	1	0	Actinobacteria	Actinomycetales	Soliubrobacteriales	Conexibacteraceae	unclassified	
485	2	0	0	0	0	Actinobacteria	Actinomycetales	Soliubrobacteriales	Patulibacteraceae	unclassified	
493	0	3	2	2	0	Actinobacteria	Actinomycetales	Propionibacteriales	Agrococcus	Agrococcus	
499	0	0	2	0	0	Actinobacteria	Actinomycetales	Propionibacteriales	unclassified		
529	0	1	0	1	0	Actinobacteria	Actinomycetales	AKW874	unclassified		
533	0	1	0	0	0	Actinobacteria	Actinomycetales	Propionibacteriales	Actinomycetaceae	Actinomycetes	
537	0	1	0	1	1	Actinobacteria	Actinomycetales	Propionibacteriales	Actinomycetaceae	Actinomycetes	
557	0	1	0	0	0	Actinobacteria	Actinomycetales	Propionibacteriales	Microbacteriales	Yongharpakia	
559	0	0	0	2	0	Actinobacteria	Actinomycetales	Propionibacteriales	Noardioidaceae	Noardioides	
563	0	5	0	0	0	Actinobacteria	Actinomycetales	Propionibacteriales	Microbacteriales	Microbacter	
566	0	28	0	0	0	Actinobacteria	Actinomycetales	Propionibacteriales	Noardioidaceae	Noardioides	
575	0	1	0	2	0	Actinobacteria	Actinomycetales	Propionibacteriales	Pseudogordoniae	Pseudogordonia	
576	1	1	0	1	0	Actinobacteria	Actinomycetales	Propionibacteriales	Propionibacteriaceae	Pseudogordonia	

Table S5 (part C): OTUs, no. of reads and corresponding taxonomic affiliation of detected bacterial 16S rRNA amplicons by 454 pyrotag sequencing. Please note, the data shown here was either rank normalized or sum normalized (to 5000 reads per sample) before performing statistical analysis as depicted in the manuscript.

taxonomic classification of bacterial 16S rRNA gene amplicons											
	Samples and no. of reads	OTU	UR	CO	CR8	CR5	phylum	class	order	family	genus
1425	3	2	1	1	Actinobacteria	Actinobacteria	Actinomycetales	Geodermatophilaceae	Modestobacter		
1427	0	3	1	0	Actinobacteria	Actinobacteria	Acidimicrobiales	Microthrixaceae	unclassified		
1456	0	0	0	1	Actinobacteria	Actinobacteria	MC47	unclassified	unclassified		
1468	0	1	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Kineosporaceae	Kineococcus		
1488	0	13	0	0	Actinobacteria	Actinobacteria	Acidimicrobiales	CL500-29	unclassified		
1492	0	0	0	1	Actinobacteria	Actinobacteria	Actinomycetales	Nocardioaceae	Nocardioaceae		
1496	2	0	12	5	Actinobacteria	Actinobacteria	Actinomycetales	Brevibacteriaceae	Brevibacterium		
1511	0	0	1	0	Actinobacteria	Actinobacteria	Acidimicrobiales	CL500-29	unclassified		
1517	1	0	1	0	Actinobacteria	Actinobacteria	Actinomycetales	Mycobacteriaceae	unclassified		
1523	0	1	0	0	Actinobacteria	Actinobacteria	Acidimicrobiales	Adindomycetaceae	unclassified		
1524	0	1	2	0	Actinobacteria	Actinobacteria	Actinomycetales	Unclassified	unclassified		
1530	0	2	0	0	Actinobacteria	Actinobacteria	Acidimicrobiales	CL500-29	unclassified		
1531	0	0	3	1	Actinobacteria	Actinobacteria	Actinomycetales	Dermabacteraceae	Dermabacter		
1532	0	0	0	1	Actinobacteria	Actinobacteria	Acidimicrobiales	CL500-29	unclassified		
1534	0	1	0	3	Actinobacteria	Actinobacteria	Actinomycetales	Kineosporaceae	unclassified		
1536	0	1	1	1	Actinobacteria	Actinobacteria	Actinomycetales	unclassified	unclassified		
1539	0	1	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Micromonosporaceae	unclassified		
1545	0	1	0	0	Actinobacteria	Actinobacteria	Solirubrobacteriales	Conexibacteriaceae	unclassified		
1578	1	0	0	0	Actinobacteria	Actinobacteria	MC47	unclassified	unclassified		
1599	0	29	4	1	Actinobacteria	Actinobacteria	Actinomycetales	Intrasporangiateaceae	Terracoccus		
1601	0	0	0	1	Actinobacteria	Actinobacteria	Actinomycetales	Unclassified	unclassified		
1634	0	0	2	0	Actinobacteria	Actinobacteria	Solirubrobacteriales	Conexibacteriaceae	unclassified		
1638	1	0	3	1	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium		
1649	0	1	2	2	Actinobacteria	Actinobacteria	Actinomycetales	Pseudonocardiaceae	Pseudonocardia		
1656	0	1	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Intrasporangiateaceae	Arsenicococcus		
1660	1	5	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Bogoriellaceae	Georgenia		
1671	1	0	0	0	Actinobacteria	Actinobacteria	Solirubrobacteriales	Conexibacteriaceae	unclassified		
1676	0	8	2	1	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Frigonibacterium		
1678	0	1	0	0	Actinobacteria	Actinobacteria	Acidimicrobiales	Unclassified	unclassified		
1689	1	45	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionimonas		
1696	0	0	2	5	Actinobacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium		
1705	3	17	2	2	Actinobacteria	Actinobacteria	Actinomycetales	Unclassified	unclassified		
1717	0	14	0	0	Actinobacteria	Actinobacteria	Actinomycetales	Unclassified	unclassified		
18	0	1	0	0	Armatimonadetes	Armatimonadetes	Armatimonadetes	WD294	unclassified		
29	0	0	1	0	Armatimonadetes	CH21	Armatimonadetes	Unclassified	unclassified		
101	0	0	0	1	Armatimonadetes	Armatimonadetes	Armatimonadetes	Armatimonadaceae	unclassified		
197	0	1	0	0	Armatimonadetes	Armatimonadetes	Armatimonadetes	Armatimonadaceae	unclassified		
447	0	1	0	0	Armatimonadetes	Armatimonadetes	Armatimonadetes	Armatimonadaceae	unclassified		
647	1	0	0	0	Armatimonadetes	CH21	Armatimonadetes	Unclassified	unclassified		
796	4	0	0	0	Armatimonadetes	Armatimonadetes	Armatimonadetes	Armatimonadaceae	unclassified		
893	0	2	0	0	Armatimonadetes	Armatimonadetes	Armatimonadetes	Armatimonadaceae	unclassified		
902	0	1	0	0	Armatimonadetes	Armatimonadetes	Armatimonadetes	Armatimonadaceae	unclassified		
1031	0	0	0	1	Armatimonadetes	CH21	Armatimonadetes	Unclassified	unclassified		
1549	0	0	2	0	Armatimonadetes	CH21	Armatimonadetes	Chthonomonadetes	Chthonomonadaceae	Chthonomonas	
1672	0	0	0	1	Armatimonadetes	CH21	Armatimonadetes	Unclassified	Unclassified		
2	0	1	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Corinophagaceae	unclassified		
5	0	1	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Chitophagaceae	unclassified		
13	0	0	1	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Flavobacterium		
22	1	0	1	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Chryseobacterium		
30	0	3	1	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	unclassified		
41	0	1	0	0	Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides		
45	0	2	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Chryseobacterium		
53	0	1	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flammoevigraceae	unclassified		
57	0	1	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Flavobacterium		
77	0	1	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Aequorivita		
80	1	4	2	5	Bacteroidetes	Bacteroidia	Bacteroidales	Porphromonadaceae	Porphromonas		
84	0	4	0	0	Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	Rikenellaceae		
89	0	0	5	6	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Chryseobacterium		
96	0	0	2	0	Bacteroidetes	Bacteroidia	Bacteroidales	Porphromonadaceae	Candidatus_Azobacteroides		
110	0	1	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Flavobacterium		
124	0	1	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteriaceae	Spirosoma		
126	0	1	0	0	Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	unclassified		
128	0	1	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Polyfimbriaceae	Spirosoma		
133	0	1	0	0	Bacteroidetes	unclassified	unclassified	unclassified	unclassified		
136	0	2	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Chitophagaceae	unclassified		
137	0	1	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Flavobacterium		
142	0	8	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Aequorivita		
154	0	1	1	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Chitophagaceae	Flavisolibacter		
160	0	1	0	0	Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	unclassified		
166	0	1	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteriaceae	unclassified		
168	0	0	1	0	Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides		
182	0	0	0	1	Bacteroidetes	Bacteroidia	Bacteroidales	Porphromonadaceae	Porphromonas		
188	0	2	5	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteriaceae	Hymenobacter		
193	0	1	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteriaceae	Spirosoma		
200	0	0	1	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteriaceae	Hymenobacter		
203	0	0	4	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteriaceae	unclassified		
215	0	0	2	2	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Chitophagaceae	unclassified		
230	0	3	0	0	Bacteroidetes	Bacteroidia	Bacteroidales	Porphromonadaceae	Porphromonas		
220	0	0	2	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Pedobacteraceae	Pedobacter		
229	0	0	0	1	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Rhodothermaceae	unclassified		
240	0	0	1	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Polyfimbriaceae	Polyfimbrium		
243	0	1	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Chitophagaceae	unclassified		
244	0	4	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteriaceae	Spirosoma		
247	0	1	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Flavobacterium		
248	0	1	1	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Chitophagaceae	unclassified		
253	0	0	1	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteriaceae	Hymenobacter		
268	0	2	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Chitophagaceae	unclassified		
281	0	0	2	2	Bacteroidetes	Bacteroidia	Bacteroidales	Unclassified	unclassified		
305	0	0	1	1	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteriaceae	Hymenobacter		
308	0	1	0	2	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Chitophagaceae	unclassified		
309	0	3	0	1	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Chitophagaceae	Segetibacter		
324	0	22	0	0	Bacteroidetes	Bacteroidia	Bacteroidales	Unclassified	unclassified		
326	0	0	0	3	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	unclassified		
334	1	9	6	6	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteriaceae	Hymenobacter		
354	0	2	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteriaceae	Dyadobacter		
380	0	0	0	1	Bacteroidetes	Bacteroidia	Bacteroidales	Polyfimbriaceae	Polyfimbrium		
388	0	0	2	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Chitophagaceae	unclassified		
389	0	1	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteriaceae	Sphingobacterium		
391	0	0	1	2	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Chitophagaceae	unclassified		
393	2	0	0	1	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	unclassified		

Table S5 (part D): OTUs, no. of reads and corresponding taxonomic affiliation of detected bacterial 16S rRNA amplicons by 454 pyrotag sequencing. Please note, the data shown here was either rank normalized or sum normalized (to 5000 reads per sample) before performing statistical analysis as depicted in the manuscript.

taxonomic classification of bacterial 16S rRNA gene amplicons											
	Samples and no. of reads	OTU	UR	CO	CR8	CR5	phylum	class	order	family	genus
400	0	2	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteraceae			
417	0	2	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Chitophagaceae	unclassified		
425	1	0	2	1	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteraceae	Pedobacter		
432	0	19	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Chitophagaceae	unclassified		
434	0	1	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteraceae	Segetibacter		
436	0	0	0	3	Bacteroidetes	Bacteroidia	Bacteroidales	Polyfimbriaceae	unclassified		
438	0	0	0	1	Bacteroidetes	Bacteroidia	Bacteroidales	Polyfimbriaceae	Prevotellaceae		
447	0	0	0	1	Bacteroidetes	Bacteroidia	Bacteroidales	Unclassified	Prevotellaceae		
454	0	0	1	0	Bacteroidetes	Bacteroidia	Bacteroidales	Unclassified	Unclassified		
461	0	1	0	1	Bacteroidetes	Bacteroidia	Bacteroidales	Unclassified	Unclassified		
481	0	1	0	1	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteraceae	Hymenobacter		
487	0	0	0	2	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteraceae	Hymenobacter		
502	0	0	1	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteraceae	Hymenobacter		
516	0	0	3	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Wautersiella		
517	0	2	5	2	Bacteroidetes	Flavobacteria	Flavobacteriales	Flexibacteraceae	Rhodothermaceae		
526	0	0	1	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteraceae	Spissomata		
534	0	1	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteraceae	Hymenobacter		
545	0	0	0	2	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteraceae	Hymenobacter		
546	0	2	0	1	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteraceae	Hymenobacter		
551	0	0	0	1	Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	unclassified		
554	0	0	0	2	Bacteroidetes	Sphingobacteria	Sphingobacteriales	Flexibacteraceae	Capnocytophaga		
555	0										

Table S5 (part E): OTUs, no. of reads and corresponding taxonomic affiliation of detected bacterial 16S rRNA amplicons by 454 pyrotag sequencing. Please note, the data shown here was either rank normalized or sum normalized (to 5000 reads per sample) before performing statistical analysis as depicted in the manuscript.

Samples and no. of reads				taxonomic classification of bacterial 16S rRNA gene amplicons						
OTU	UR	CO	CR8	CR5	phylum	class	order	family	genus	
1180	0	2	0	0	Bacteroidetes	Sphingobacteria	Flexibacteraceae	Spirosoma		
1182	0	3	5	0	Bacteroidetes	Bacteroidia	Prevotellaceae	Prevotella		
1184	0	0	1	0	Bacteroidetes	Sphingobacteria	Sphingobacteriaceae	unclassified		
1188	0	0	0	1	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacterium		
1200	0	0	0	2	Bacteroidetes	Sphingobacteria	Flexibacteraceae	Hymenobacter		
1213	0	1	0	1	Bacteroidetes	Sphingobacteria	Flexibacteraceae	Spirosoma		
1217	0	1	0	0	Bacteroidetes	Sphingobacteria	Sphaerotilaceae	unclassified		
1218	0	1	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Sejunga		
1224	0	0	5	0	Bacteroidetes	Sphingobacteria	Flexibacteraceae	unclassified		
1228	0	1	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Aequorivita		
1233	0	0	0	1	Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroides		
1234	0	0	0	1	Bacteroidetes	Flavobacteria	Flavobacteriales	Corynophagaceae	unclassified	
1250	0	0	1	1	Bacteroidetes	Bacteroidia	Prevotellaceae	Prevotella		
1262	1	0	0	0	Bacteroidetes	Sphingobacteria	Flexibacteraceae	unclassified		
1257	0	1	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Arenibacter		
1258	0	0	1	0	Bacteroidetes	Sphingobacteria	Flexibacteraceae	Hymenobacter		
1262	0	0	1	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacterium		
1264	0	1	0	1	Bacteroidetes	Sphingobacteria	Sphingobacteriaceae	unclassified		
1273	0	1	2	0	Bacteroidetes	Bacteroidia	Bacteroidales	unclassified		
1274	1	0	0	2	Bacteroidetes	Sphingobacteria	Flexibacteraceae	Hymenobacter		
1286	0	2	0	0	Bacteroidetes	Sphingobacteria	Cyclobacteriaceae	unclassified		
1287	0	3	0	0	Bacteroidetes	Sphingobacteria	Flexibacteraceae	Spirosoma		
1297	0	0	2	0	Bacteroidetes	Sphingobacteria	Chitinophagaceae	unclassified		
1298	0	1	0	0	Bacteroidetes	Sphingobacteria	Sphaerotilaceae	unclassified		
1300	0	0	1	0	Bacteroidetes	Sphingobacteria	Flexibacteriales	Spirosoma		
1303	2	2	1	1	Bacteroidetes	Flavobacteria	Flavobacteriales	Chryseobacterium		
1320	0	0	1	0	Bacteroidetes	Sphingobacteria	Flexibacteriales	Emiticia		
1330	0	0	0	1	Bacteroidetes	Bacteroidia	Bacteroidales	unclassified		
1333	0	6	0	0	Bacteroidetes	Sphingobacteria	Chitinophagaceae	unclassified		
1345	0	0	1	0	Bacteroidetes	Sphingobacteria	Sphaerotilaceae	unclassified		
1351	1	0	0	0	Bacteroidetes	Sphingobacteria	Flexibacteraceae	Spirosoma		
1352	1	0	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriaceae	Sphingobacterium		
1356	0	0	4	0	Bacteroidetes	Sphingobacteria	Chitinophagaceae	unclassified		
1359	0	0	0	1	Bacteroidetes	Bacteroidia	Prevotellaceae	Prevotella		
1363	0	1	0	0	Bacteroidetes	unclassified	unclassified	unclassified		
1364	0	5	0	0	Bacteroidetes	Bacteroidia	Bacteroidales	Marinilabaceae	unclassified	
1366	1	6	0	3	Bacteroidetes	Sphingobacteria	Flexibacteraceae	Hymenobacter		
1382	0	2	7	2	Bacteroidetes	Sphingobacteria	Flexibacteraceae	Hymenobacter		
1393	0	2	1	0	Bacteroidetes	Sphingobacteria	Sphaerotilaceae	Spirosoma		
1396	0	8	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Aequorivita		
1400	0	0	1	0	Bacteroidetes	Bacteroidia	Porphyromonadaceae	unclassified		
1401	0	0	6	0	Bacteroidetes	Sphingobacteria	Flexibacteriales	Cytophaga		
1424	0	5	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	unclassified		
1434	0	1	0	0	Bacteroidetes	Sphingobacteria	Flammoevrgaceae	unclassified		
1444	0	4	0	0	Bacteroidetes	Sphingobacteria	Sphingobacteriaceae	unclassified		
1452	0	1	0	2	Bacteroidetes	Sphingobacteria	Flexibacteraceae	Hymenobacter		
1457	0	3	0	2	Bacteroidetes	Flavobacteria	Flavobacteriales	Chryseobacterium		
1460	0	0	1	0	Bacteroidetes	Sphingobacteria	Sphaerotilaceae	Chitinophagaceae	unclassified	
1489	77	0	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	Wauternella		
1490	0	2	0	2	Bacteroidetes	Sphingobacteria	Chitinophagaceae	unclassified		
1494	0	2	0	0	Bacteroidetes	Sphingobacteria	Flexibacteriaceae	Thiotricha		
1498	0	1	0	0	Bacteroidetes	Sphingobacteria	Chitinophagaceae	unclassified		
1499	0	1	0	0	Bacteroidetes	Bacteroidia	Prevotellaceae	Prevotella		
1500	0	3	0	0	Bacteroidetes	Bacteroidia	Porphyromonadaceae	unclassified		
1502	0	2	0	0	Bacteroidetes	Sphingobacteria	Sphaerotilaceae	unclassified		
1525	0	0	1	0	Bacteroidetes	Sphingobacteria	Sphaerotilaceae	unclassified		
1544	0	1	0	0	Bacteroidetes	Sphingobacteria	Flexibacteriaceae	Spirosoma		
1547	0	0	2	0	Bacteroidetes	Sphingobacteria	Flexibacteriaceae	Spirosoma		
1557	0	0	0	1	Bacteroidetes	Flavobacteria	Flavobacteriales	Capnocytophaga		
1568	0	0	1	0	Bacteroidetes	Sphingobacteria	Chitinophagaceae	unclassified		
1574	0	11	0	0	Bacteroidetes	Flavobacteria	Flavobacteriales	unclassified		
1576	1	0	0	0	Bacteroidetes	Sphingobacteria	Sphaerotilaceae	unclassified		
1585	0	0	2	0	Bacteroidetes	Sphingobacteria	Chitinophagaceae	unclassified		
1596	0	1	0	0	Bacteroidetes	Bacteroidia	Bacteroidales	Parabacteroides		
1610	0	1	0	0	Bacteroidetes	unclassified	unclassified	unclassified		
1615	0	3	0	3	Bacteroidetes	Sphingobacteria	Flexibacteriaceae	Emiticia		
1616	0	3	0	0	Bacteroidetes	Sphingobacteria	Chitinophagaceae	unclassified		
1622	0	0	12	0	Bacteroidetes	Bacteroidia	Prevotellaceae	Prevotella		
1626	0	2	0	0	Bacteroidetes	unclassified	unclassified	unclassified		
1630	0	1	0	0	Bacteroidetes	Sphingobacteria	Flexibacteriaceae	Dyadobacter		
1635	0	2	0	0	Bacteroidetes	unclassified	unclassified	unclassified		
1653	0	0	4	0	Bacteroidetes	Bacteroidia	Polybutales	Parabacteroides		
1663	0	0	1	0	Bacteroidetes	Sphingobacteria	Chitinophagaceae	unclassified		
1668	0	0	0	1	Bacteroidetes	Sphingobacteria	Sphaerotilaceae	unclassified		
1669	1	0	1	9	Bacteroidetes	Bacteroidia	Prevotellaceae	Prevotella		
1677	0	0	0	3	Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroides		
1699	0	1	0	1	Bacteroidetes	Sphingobacteria	Flexibacteriaceae	Spirosoma		
1700	0	0	0	1	Bacteroidetes	Sphingobacteria	Flexibacteriaceae	Spirosoma		
1720	0	1	0	1	Bacteroidetes	Sphingobacteria	unclassified	unclassified		
1721	0	3	0	0	Bacteroidetes	Sphingobacteria	Chitinophagaceae	unclassified		
1955	0	1	0	0	BRC1	PRR-11	unclassified	unclassified		
19	0	2	1	0	Chlorobi	Chlorobi	Chlorobiaceles	unclassified		
373	0	2	1	0	Chlorobi	Chlorobi	SJA-28	unclassified		
703	0	0	1	0	Chlorobi	Ignavigibacteria	Ignavigibacteriaceae	unclassified		
3	0	2	0	2	Chlorobi	Anaerolineales	Anaerolineaceae	A4b		
106	0	2	0	1	Chlorobi	SOG41	unclassified	unclassified		
298	0	1	0	0	Chlorobi	Herpetosiphonales	Herpetosiphonaceae	Herpetosiphon		
356	0	1	0	0	Chlorobi	Chloroflexales	Chloroflexaceae	unclassified		
623	0	2	0	0	Chlorobi	Anaerolineales	Anaerolineaceae	unclassified		
674	0	1	0	0	Chlorobi	Thermomicrobia	Sphaerotilaceales	Thermomicrobium		
856	0	0	1	0	Chlorobi	SOGA31	unclassified	unclassified		
957	0	4	0	0	Chlorobi	Thermomicrobia	Sphaerotilaceales	Thermomicrobium		
1084	0	0	1	0	Chlorobi	Chloroflexi	Chloroflexaceae	Rosiflexus		
1107	0	1	0	0	Chlorobi	Thermomicrobia	Sphaerotilaceales	Thermomicrobium		
1113	0	1	0	0	Chlorobi	SOGA31	unclassified	unclassified		
1171	0	8	0	0	Chlorobi	Sphaerothacteriales	Sphaerothacteriinae	HN1-15		
1305	0	1	0	0	Chlorobi	BijJ12	WMP51	FFC4570		
1423	0	0	2	0	Chlorobi	Anaerolineales	Anaerolineaceae	WCHB1-50		
1453	0	0	0	1	Chlorobi	Thermomicrobia	Sphaerotilaceales	HN1-15		
1476	0	1	0	0	Chlorobi	Anaerolineales	Anaerolineaceae	A4b		

Table S5 (part F): OTUs, no. of reads and corresponding taxonomic affiliation of detected bacterial 16S rRNA amplicons by 454 pyrotag sequencing. Please note, the data shown here was either rank normalized or sum normalized (to 5000 reads per sample) before performing statistical analysis as depicted in the manuscript.

Samples and no. of reads				taxonomic classification of bacterial 16S rRNA gene amplicons						
OTU	UR	CO	CR8	CR5	phylum	class	order	family	genus	
1520	0	1	0	0	Chlorflexi	Anaerolineae	Anaerolineales	Anaerolineae	Anaerolinea	
1583	0	1	0	1	Chlorflexi	TX17	m1et-48	unclassified	unclassified	
1603	0	0	2	0	Chlorflexi	unclassified	unclassified	unclassified	unclassified	
102	10	0	0	0	Cyanobacteria	Nostocophyceae	Nostocales	Nostocaceae	Nostoc	
148	0	0	3	0	Cyanobacteria	Synechococcophyceae	Pseudanabaenales	Pseudanabaenaceae	Leptolyngbya	
387	0	3	0	0	Cyanobacteria	Synechococcophyceae	Pseudanabaenales	Pseudanabaenaceae	Leptolyngbya	
403	0	0	2	0	Cyanobacteria	Synechococcophyceae	Pseudanabaenales	Pseudanabaenaceae	Leptolyngbya	
426	0	1	0	1	Cyanobacteria	Synechococcophyceae	Pseudanabaenales	Pseudanabaenaceae	Leptolyngbya	
450	0	0	1	0	Cyanobacteria	Chloroplast	Stramenopiles	Stramenopila	Leptolyngbya	
477	0	1	0	2	Cyanobacteria	Chloroplast	Stramenopiles	Stramenopila	Leptolyngbya	
511	0	1	0	0	Cyanobacteria	Chloroplast	Stramenopiles	Stramenopila	Leptolyngbya	
527	0	13	0	0	Cyanobacteria	Nostocophyceae	Nostocales	Nostocaceae	Nostoc	
530	0	5	2	4	Cyanobacteria	Oscillatoriophyceae	Oscillatoriiales	Phormidiaceae	Phormidium	
542	0	2	0	0	Cyanobacteria	Oscillatoriophyceae	Oscillatoriiales	Phormidiaceae	Phormidium	
543	0	1	0	0	Cyanobacteria	Synechococcophyceae	Pseudanabaenales	Pseudanabaenaceae	Pseudanaba-Phormidium	
584	0	0	0	3	Cyanobacteria	Synechococcophyceae	Pseudanabaenales	Pseudanabaenaceae	Pseudanaba-Phormidium	
591	0	1	0	0	Cyanobacteria	Oscillatoriophyceae	Chlorococcales	Xenococcaceae	Xenococcaceae	
594	0	8	0	0	Cyanobacteria	Oscillatoriophyceae	Chlorococcales	Xenococcaceae	Xenococcaceae	
604	0	0	3	5	Cyanobacteria	Chloroplast	Chlorophytidae	Trebouxiophyceae	Trebouxiophyceae	
614	0	1	0	0	Cyanobacteria	Synechococcophyceae	Pseudanabaenales	Pseudanabaenaceae	Leptolyngbya	
641	0	0	1	0	Cyanobacteria	4C0d-2	SMID11	unclassified	unclassified	
646	0	0	0	7	Cyanobacteria	Oscillatoriophyceae	Chlorococcales	Xenococcaceae	Xenococcaceae	
676	0	1	0	0	Cyanobacteria	Oscillatoriophyceae	Chlorococcales	Xenococcaceae	Xenococcaceae	
744	0	2	0	0	Cyanobacteria	Chloroplast	Chlorophytidae	Trebouxiophyceae	Trebouxiophyceae	
761	0	0	3	0	Cyanobacteria	4C0d-2	m1et-12	unclassified	unclassified	
1099	0	1	0	0	Cyanobacteria	unclassified	unclassified	unclassified	unclassified	
1101	1	16	8	6	Cyanobacteria	Oscillatoriophyceae	Chlorococcales	Xenococcaceae	Xenococcaceae	
1106	0	2	0	3	Cyanobacteria	unclassified	unclassified	unclassified	unclassified	
1108	0	4	9	7	Cyanobacteria	unclassified	unclassified	unclassified	unclassified	
1140	2	0	0	0	Cyanobacteria	Chloroplast	Stramenopiles	Stramenopila	Leptolyngbya	
1145	0	1	0	0	Cyanobacteria	unclassified	unclassified	unclassified	unclassified	
1242	0	2	0	0	Cyanobacteria	Synechococcophyceae	Pseudanabaenales	Pseudanabaenaceae	Leptolyngbya	
1244	0	2	0	0	Cyanobacteria	Chloroplast	Stramenopiles	Stramenopila	Leptolyngbya</td	

Table S5 (part G): OTUs, no. of reads and corresponding taxonomic affiliation of detected bacterial 16S rRNA amplicons by 454 pyrotag sequencing. Please note, the data shown here was either rank normalized or sum normalized (to 5000 reads per sample) before performing statistical analysis as depicted in the manuscript.

taxonomic classification of bacterial 16S rRNA gene amplicons									
OTU	UR	CO	CR8	CR9	phylum	class	order	family	genus
149	3	20	13	2	Firmicutes	Clostridia	Veillonellaceae	Veillonella	
150	2	1	0	3	Firmicutes	Bacilli	Planococcaceae	Solilacidus	
151	3	3	15	1	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus
153	0	2	0	2	Firmicutes	Clostridia	Veillonellaceae	Desulfosporosum	
156	2	0	0	0	Firmicutes	Clostridia	Clostridiaceae	Clostridium	
165	2	6	0	4	Firmicutes	Clostridia	Ruminococcaceae	Subdoligranulum	
167	0	2	0	0	Firmicutes	Bacilli	Clostridiaceae	unclassified	
174	0	2	0	2	Firmicutes	Clostridia	Clostridiaceae	unclassified	
181	6	1	23	12	Firmicutes	Clostridia	Clostridiates_Family_XI_Incertae_Sedis	Pectinophilus	
198	1	0	0	0	Firmicutes	Clostridia	Clostridiates_Family_XIII_Incertae_Sedis	unclassified	
201	0	0	1	0	Firmicutes	Clostridia	Ruminococcaceae	unclassified	
202	1	0	0	0	Firmicutes	Bacilli	Bacillaceae	Bacillus	
209	0	3	3	9	Firmicutes	Clostridia	Clostridiates	Clostridiates_Family_XI_Incertae_Sedis	unclassified
211	0	1	0	0	Firmicutes	Clostridia	Lachnospiraceae	Oribacterium	
212	0	0	1	0	Firmicutes	Clostridia	Ruminococcaceae	Ruminococcus	
214	0	2	0	0	Firmicutes	Bacilli	Bacillaceae	Bacillus	
217	3	1	11	91	Firmicutes	Clostridia	Clostridiates	Clostridiates_Family_XI_Incertae_Sedis	unclassified
219	0	1	0	0	Firmicutes	Clostridia	Lachnospiraceae	unclassified	
223	0	0	1	0	Firmicutes	Clostridia	Ruminococcaceae	unclassified	
224	0	1	0	0	Firmicutes	Clostridia	Catobacteriaceae	unclassified	
225	1	1	8	4	Firmicutes	Clostridia	Clostridiates	Clostridiates_Family_XI_Incertae_Sedis	Anaerococcus
254	0	1	1	1	Firmicutes	Clostridia	Clostridiates	unclassified	
262	1	1	0	0	Firmicutes	Bacilli	Planococcaceae	Ureibacillus	
263	2	17	18	4	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus
266	0	0	1	0	Firmicutes	Clostridia	Lachnospiraceae	Clostridium	
267	0	3	4	54	Firmicutes	Bacilli	Lactobacillales	Aerococcaceae	unclassified
270	0	1	0	0	Firmicutes	Bacilli	Bacillaceae	Bacillus	
272	0	0	3	0	Firmicutes	Lactobacillales	Streptococcaceae	Streptococcus	
282	0	0	2	0	Firmicutes	Clostridia	MBA08	unclassified	
285	0	1	0	0	Firmicutes	Bacilli	Bacillales	unclassified	
287	0	3	8	0	Firmicutes	Bacilli	Bacillaceae	Brochotrichia	
299	0	17	0	0	Firmicutes	Clostridia	Clostridiates	Clostridiates_Family_XI_Incertae_Sedis	Tissierella
313	0	1	1	0	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	unclassified
333	0	4	0	3	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	Eubacterium
337	0	0	0	1	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	Clostridium
347	0	4	0	0	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	unclassified
348	0	1	0	0	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	Bacteroides
352	0	0	0	2	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	Coprococcus
353	0	0	0	1	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	unclassified
361	0	1	1	0	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	Clostridium
378	0	0	0	1	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	unclassified
394	0	0	0	1	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	unclassified
399	0	0	2	0	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus
401	1	2	3	1	Firmicutes	Bacilli	Lactobacillales	Leuconostocaceae	Leuconostoc
405	0	1	0	0	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	unclassified
418	1	1	1	0	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	Blauta
422	0	3	10	12	Firmicutes	Clostridia	Clostridiates	Clostridiates_Family_XI_Incertae_Sedis	Peptocophilus
426	3	1	0	0	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Turbobacillus
450	0	0	1	1	Firmicutes	Bacilli	Bacillales	Paenibacillaceae	Pseudobacillus
458	0	0	0	0	Firmicutes	Bacilli	Bacillales	Bacillaceae	Pseudobacillus
459	0	0	0	2	Firmicutes	Clostridia	Clostridiates	Clostridiates_Family_XI_Incertae_Sedis	unclassified
460	1	0	0	0	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	Blauta
466	0	58	0	0	Firmicutes	Clostridia	Clostridiates	unclassified	
471	0	1	4	1	Firmicutes	Bacilli	Staphylococcaceae	Macroccoccus	
476	2	10	9	27	Firmicutes	Clostridia	Clostridiates	Ruminococcaceae	Ruminococcus
482	0	0	5	0	Firmicutes	Bacilli	Bacillaceae	Bacillus	
500	0	0	0	2	Firmicutes	Bacilli	Lactobacillales	Cannobacteriaceae	unclassified
506	3	0	0	0	Firmicutes	Clostridia	Clostridiates	Ruminococcaceae	Ruminococcus
513	1	0	0	0	Firmicutes	Clostridia	Clostridiates	Clostridiates_Family_XI_Incertae_Sedis	unclassified
515	0	14	7	2	Firmicutes	Bacilli	Lactobacillales	Leuconostocaceae	Weissella
517	0	0	2	0	Firmicutes	Clostridia	Clostridiates	Veillonellaceae	Clostridium
521	0	0	0	1	Firmicutes	Clostridia	Clostridiates	Megaspheara	
547	0	0	0	1	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	Clostridium
553	0	0	2	0	Firmicutes	Clostridia	Clostridiates	Cattonella	
562	0	0	0	1	Firmicutes	Clostridia	Clostridiates	Veillonellaceae	Dialister
577	25	9	49	125	Firmicutes	Clostridia	Clostridiates	Clostridiates_Family_XI_Incertae_Sedis	Finegoldia
578	0	0	2	0	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	Clostridium
592	0	0	1	0	Firmicutes	Bacilli	Bacillales	Paenibacillaceae	Cohnella
595	4	1	25	32	Firmicutes	Clostridia	Clostridiates	Clostridiates_Family_XI_Incertae_Sedis	Anaerococcus
597	1	3	0	1	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Turbobacillus
602	0	2	0	0	Firmicutes	Clostridia	Clostridiates	unclassified	
603	0	1	0	0	Firmicutes	Clostridia	Clostridiates	Eubacteriaceae	unclassified
606	0	0	2	0	Firmicutes	Bacilli	Lactobacillales	Alliicoccaceae	Alliicoccus
610	1	0	0	0	Firmicutes	Clostridia	Clostridiates	Epulopiosiaceae	Epulopiosia
616	0	0	0	1	Firmicutes	Bacilli	Lactobacillales	Cannobacteriaceae	unclassified
618	0	10	0	0	Firmicutes	Clostridia	Clostridiates	Clostridiates_Family_XI_Incertae_Sedis	unclassified
621	0	0	2	0	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Turbobacillus
640	0	0	1	0	Firmicutes	Clostridia	Veillonellaceae	unclassified	
643	0	0	1	1	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	Coprococcus
650	0	1	0	0	Firmicutes	Bacilli	Bacillales	Lactobacillaceae	Turbobacillus
657	5	4	4	4	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Turbobacillus
658	0	1	0	0	Firmicutes	Clostridia	Clostridiates	unclassified	
659	0	0	1	0	Firmicutes	Bacilli	Bacillales	Paenibacillaceae	Paenibacillus
677	0	4	0	0	Firmicutes	Clostridia	Clostridiates	Clostridiates_Family_XI_Incertae_Sedis	Tissierella
682	0	0	2	0	Firmicutes	Clostridia	Clostridiates	unclassified	
701	0	0	0	1	Firmicutes	Clostridia	Clostridiates	Ruminococcaceae	Clostridium
711	0	0	2	0	Firmicutes	Bacilli	Bacillales	Paenibacillaceae	Paenibacillus
713	0	0	1	0	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus
733	0	1	0	0	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	unclassified
743	1	0	2	0	Firmicutes	Clostridia	Clostridiates	Pectotropococcaceae	Pectotropococcus
747	0	0	0	1	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	unclassified
750	0	1	4	2	Firmicutes	Bacilli	Lactobacillales	unclassified	
751	0	0	2	0	Firmicutes	Clostridia	Clostridiates	Clostridiates	Clostridium
772	0	3	0	0	Firmicutes	Clostridia	Clostridiates	Clostridiates_Family_XI_Incertae_Sedis	Tissierella
777	0	0	1	0	Firmicutes	Clostridia	Clostridiates	Clostridiates	Clostridium
788	0	0	3	0	Firmicutes	Clostridia	Clostridiates	unclassified	
797	1	0	0	0	Firmicutes	Bacilli	Bacillales	Bacillaceae	unclassified

Table S5 (part H): OTUs, no. of reads and corresponding taxonomic affiliation of detected bacterial 16S rRNA amplicons by 454 pyrotag sequencing. Please note, the data shown here was either rank normalized or sum normalized (to 5000 reads per sample) before performing statistical analysis as depicted in the manuscript.

taxonomic classification of bacterial 16S rRNA gene amplicons									
OTU	UR	CO	CR8	CR9	phylum	class	order	family	genus
798	1	0	0	0	Firmicutes	Bacilli	Bacillales	Bacillaceae	unclassified
800	0	1	6	10	7	Firmicutes	Clostridia	Lachnospiraceae	Blauta
801	0	0	0	3	Firmicutes	Clostridia	Clostridiates	Ruminococcaceae	unclassified
806	0	0	1	0	Firmicutes	Clostridia	Clostridiates	Clostridiates_Family_XI_Incertae_Sedis	unclassified
810	1	0	1	0	Firmicutes	Clostridia	Clostridiates	Ruminococcaceae	Ruminococcus
820	0	0	0	1	Firmicutes	Bacilli	Bacillales	Paenibacillaceae	Paenibacillus
824	11	0	1	0	Firmicutes	Bacilli	Bacillales	Planococcaceae	Rummeliibacillus
830	0	0	0	1	Firmicutes	Clostridia	Clostridiates	Veillonellaceae	Selenomonas
835	0	1	0	0	Firmicutes	Clostridia	Clostridiates	Veillonellaceae	Selenomonas
844	0	0	1	0	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus
865	0	0	3	0	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	Clostridium
868	0	1	0	0	Firmicutes	Clostridia	Clostridiates	Clostridiates	Clostridium
875	6	9	47	15	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus
879	0	1	0	0	Firmicutes	Bacilli	Bacillales	Paenibacillaceae	Paenibacillus
886	0	0	1	1	Firmicutes	Clostridia	Clostridiates	Ruminococcaceae	unclassified
887	1	0	1	0	Firmicutes	Bacilli	Bacillales	Paenibacillaceae	Paenibacillus
895	5	7	0	3	Firmicutes	Clostridia	Clostridiates	Catobacteriaceae	Catobacterium
902	0	1	0	1	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	Lachnospiraceum
907	0	1	0	0	Firmicutes	Clostridia	Clostridiates	unclassified	
927	0	0	1	0	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	unclassified
937	0	0	2	0	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	unclassified
949	1	0	6	1	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus
953	2	1	14	17	Firmicutes	Bacilli	Bacillales	Paenibacillaceae	Paenibacillus
954	0	1	0	0	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	unclassified
958	0	0	0	1	Firmicutes	Bacilli	Bacillales	Paenibacillaceae	Paenibacillus
969	0	1	0	1	Firmicutes	Clostridia	Clostridiates	Clostridiates	Clostridium
972	0	1	0	1	Firmicutes	Bacilli	Bacillales	Cannobacteriaceae	Trichococcus
974	1	1	0	1	Firmicutes	Clostridia	Clostridiates	Veillonellaceae	Selenomonas
977	0	1	0	0	Firmicutes	Clostridia	Clostridiates	unclassified	
987	6	18	7	30	Firmicutes	Bacilli	Bacillales	Cannobacteriaceae	Cannobacterium
1007	1	0	0	0	Firmicutes	Clostridia	Clostridiates	Ruminococcaceae	Ruminococcus
1009	0	0	0	2	Firmicutes	Clostridia	Clostridiates	unclassified	
1012	1	1	0	1	Firmicutes	Clostridia	Clostridiates	unclassified	
1019	0	0	0	1	Firmicutes	Clostridia	Clostridiates	unclassified	
1026	0	0	1	0	Firmicutes	Clostridia	Clostridiates	unclassified	
1027	0	0	0	1	Firmicutes	Clostridia	Clostridiates	unclassified	
1028	1	2	0	0	Firmicutes	Clostridia	Clostridiates	Lachnospiraceae	unclassified
1029	0	0	0	1	Firmicutes	Clostridia	Clostridiates	unclassified	
1031	0	1	0	0	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus
1041	0	0	1	0	Firmicutes	Clostridia	Clostridiates	Clostridiates	Clostridium
1042	2	0	0	2	Firmicutes	Bacilli	Bacillales	Turicibacteriaceae	Turicibacter
1057	0	0	0	2	Firmicutes	Clostridia	Clostridiates	Clostridiates	Clostridium

Table S5 (part I): OTUs, no. of reads and corresponding taxonomic affiliation of detected bacterial 16S rRNA amplicons by 454 pyrotag sequencing. Please note, the data shown here was either rank normalized or sum normalized (to 5000 reads per sample) before performing statistical analysis as depicted in the manuscript.

taxonomic classification of bacterial 16S rRNA gene amplicons								
Samples and no. of reads	OTU	UR	CO	CR8	CR5	phylum	class	order
						family		genus
1411	0	0	0	3	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae
1418	0	0	1	0	Firmicutes	Clostridia	Clostridiales	Clostridiaceae
1421	4	9	4	5	Firmicutes	Bacilli	Lactobacillales	Enterococcaceae
1422	0	1	0	0	Firmicutes	Clostridia	Clostridiales	unclassified
1433	0	2	0	0	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae
1437	0	1	0	7	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae
1438	3	0	0	4	Firmicutes	Clostridia	Clostridiales	Clostridiaceae
1440	4	4	3	1	Firmicutes	Bacilli	Bacillales	Alicyclobacillaceae
1441	0	1	0	0	Firmicutes	Bacilli	Bacillales	Planococcaceae
1442	2	40	11	10	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae
1451	0	0	2	2	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae
1453	0	0	1	1	Firmicutes	Clostridia	Clostridiales	Clostridiaceae
1482	0	0	1	0	Firmicutes	Bacilli	Lactobacillales	Granulicatellales
1491	2	0	7	3	Firmicutes	Clostridia	Clostridiales	Family_XI,_Incertae_Sedis
1518	0	2	0	0	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae
1526	0	0	1	0	Firmicutes	Clostridia	Clostridiales	undclassified
1555	0	0	1	4	Firmicutes	Clostridia	Clostridiales	Family_XI,_Incertae_Sedis
1556	5	0	0	0	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae
1558	0	0	3	0	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae
1562	4	20	3	1	Firmicutes	Clostridia	Clostridiales	unclassified
1575	0	3	0	0	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae
1579	0	0	0	1	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae
1581	0	0	0	1	Firmicutes	Clostridia	Clostridiales	Eubacteriaceae
1584	13	6	0	2	Firmicutes	Bacilli	Bacillales	Bacillaceae
1587	1	0	0	0	Firmicutes	Clostridia	Clostridiales	unclassified
1590	1	14	11	12	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae
1591	0	0	2	0	Firmicutes	Clostridia	Clostridiales	Faecalibacterium
1614	0	2	0	0	Firmicutes	Clostridia	Clostridiales	unclassified
1617	0	0	5	2	Firmicutes	Clostridia	Clostridiales	Veillonellaceae
1629	0	1	0	0	Firmicutes	Clostridia	Clostridiales	unclassified
1642	0	2	0	2	Firmicutes	Bacilli	Lactobacillales	Carnobacteriaceae
1645	0	0	0	1	Firmicutes	Clostridia	Clostridiales	Desezniella
1650	0	10	7	3	Firmicutes	Clostridia	Clostridiales	Clostridiaceae
1651	0	1	0	0	Firmicutes	Clostridia	Clostridiales	unclassified
1652	1	0	0	0	Firmicutes	Clostridia	Clostridiales	MBA08
1657	0	1	0	0	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae
1664	0	0	0	1	Firmicutes	Clostridia	Clostridiales	unclassified
1665	0	0	1	0	Firmicutes	Clostridia	Clostridiales	Family_XI,_Incertae_Sedis
1688	0	0	1	0	Firmicutes	Clostridia	Clostridiales	Helicoccus
1693	0	0	0	1	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae
1694	2	0	0	2	Firmicutes	Bacilli	Lactobacillales	Aerococcaceae
1697	1	0	0	3	Firmicutes	Clostridia	Clostridiales	Veillonellaceae
1704	0	2	0	3	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae
1707	20	2	4	5	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae
1722	0	5	0	0	Firmicutes	Clostridia	Clostridiales	Clostridiaceae
211	1	0	0	0	Fusobacteria	Fusobacteria	Fusobacteriales	Fusobacteriaceae
1207	0	6	1	0	Fusobacteria	Fusobacteria	Fusobacteriales	Fusobacteriaceae
222	0	1	0	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	Gemmatimonadaceae
229	0	1	0	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
255	0	1	0	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
372	0	1	0	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
421	0	0	1	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
579	0	1	0	1	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
619	0	2	2	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	Gemmatimonas
712	0	0	1	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
769	1	0	0	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
834	0	1	0	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
841	0	3	0	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
867	2	0	0	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	Gemmimonas
896	0	6	0	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
972	0	2	0	1	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
1008	0	0	1	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
1013	0	1	0	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
1026	0	4	0	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
1038	0	1	0	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
1051	0	3	0	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
1203	0	1	0	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
1211	0	0	0	3	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
1237	0	4	0	1	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
1246	0	1	0	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
1255	0	5	3	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
1259	0	3	0	2	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
1355	0	0	0	1	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
1454	0	0	1	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
1516	0	1	0	0	Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	unclassified
134	0	0	0	1	Nitrosospira	Nitrosospira	Nitrosopiraceae	Nitrosospira
286	0	0	1	0	Nitrosospira	Nitrosospira	Nitrosopiraceae	Nitrosospira
947	1	0	0	0	Nitrosospira	Nitrosospira	Nitrosopiraceae	Nitrosospira
9	0	0	1	0	Planktomyces	Planktomyces	Planktomyctales	Isosphaeraceae
23	0	2	0	0	Planktomyces	Planktomyces	Planktomyctales	Planktomyctaceae
70	1	0	0	0	Planktomyces	Planktomyces	Planktomyctales	Gemmataceae
158	0	0	1	0	Planktomyces	Planktomyces	Planktomyctales	Phantomycetaceae
200	0	0	1	0	Planktomyces	Planktomyces	Planktomyctales	Gemmataceae
211	0	1	0	0	Planktomyces	Planktomyces	Planktomyctales	Gemmataceae
262	0	0	1	0	Planktomyces	Planktomyces	Planktomyctales	A17
413	0	0	2	0	Planktomyces	Planktomyces	Planktomyctales	Isosphaeraceae
415	0	0	1	0	Planktomyces	Planktomyces	Planktomyctales	Planktomyctaceae
422	0	7	0	0	Planktomyces	Planktomyces	Planktomyctales	Rhodopirellula
503	0	0	0	1	Planktomyces	Planktomyces	Planktomyctales	Planktomyctaceae
571	0	0	0	1	Planktomyces	Planktomyces	Planktomyctales	Planktomyctaceae
598	0	0	0	1	Planktomyces	Planktomyces	Planktomyctales	Gemmataceae
700	0	1	0	0	Planktomyces	Planktomyces	Planktomyctales	Gemmataceae
717	0	0	1	0	Planktomyces	Planktomyces	Planktomyctales	unclassified
724	0	10	0	0	Planktomyces	Planktomyces	Planktomyctales	Rhodopirellula
728	0	1	0	0	Planktomyces	Planktomyces	Gemmataceae	Gemmataceae
729	0	1	0	0	Planktomyces	Planktomyces	Planktomyctales	Isosphaeraceae
748	0	0	0	1	Planktomyces	Planktomyces	Planktomyctales	Isosphaeraceae
803	0	3	0	0	Planktomyces	Planktomyces	Planktomyctales	Planktomyctaceae
814	0	0	0	2	Planktomyces	Planktomyces	Planktomyctales	Planktomyctaceae

Table S5 (part II): OTUs, no. of reads and corresponding taxonomic affiliation of detected bacterial 16S rRNA amplicons by 454 pyrotag sequencing. Please note, the data shown here was either rank normalized or sum normalized (to 5000 reads per sample) before performing statistical analysis as depicted in the manuscript.

Samples and no. of reads	OTU	UR	CO	CR8	CR5	phylum	class	order	family	genus
862	0	0	2	0	0	Planktomyces	Planktomyctales	Gemmatales	Gemmataceae	Gemmata
998	0	5	0	2	0	Planktomyces	Planktomyctales	Gemmatales	Isosphaeraceae	unclassified
999	0	0	1	0	0	Planktomyces	Planktomyctales	Gemmatales	Gemmataceae	unclassified
1060	0	2	0	0	0	Planktomyces	Planktomyctales	Gemmatales	unclassified	unclassified
1181	0	1	0	0	0	Planktomyces	Planktomyctales	Planktomyctaceae	unclassified	unclassified
1225	0	0	2	0	0	Planktomyces	Planktomyctales	Gemmatales	Gemmataceae	Gemmata
1241	0	1	0	1	0	Planktomyces	Planktomyctales	Gemmatales	Gemmataceae	unclassified
1249	0	1	0	1	0	Planktomyces	Planktomyctales	Gemmatales	Gemmataceae	Gemmata
1276	0	1	0	0	0	Planktomyces	Planktomyctales	Gemmatales	Isosphaeraceae	unclassified
1298	0	1	0	2	0	Planktomyces	Planktomyctales	Gemmatales	Isosphaeraceae	unclassified
1306	0	0	5	0	0	Planktomyces	Planktomyctales	Planktomyctaceae	Planktomyctaceae	Planktomyctaceae
1350	0	1	0	0	0	Planktomyces	Planktomyctales	Gemmatales	Gemmataceae	Gemmata
1381	0	0	2	0	0	Planktomyces	Planktomyctales	Gemmatales	Isosphaeraceae	unclassified
1386	0	0	1	0	0	Planktomyces	Planktomyctales	Gemmatales	unclassified	unclassified
1391	0	0	1	0	0	Planktomyces	Planktomyctales	Gemmatales	unclassified	unclassified
1445	0	1	0	1	0	Planktomyces	Planktomyctales	Gemmatales	Methylobacteriaceae	Methylobacter
1496	0	0	1	0	0	Planktomyces	Planktomyctales	Gemmatales	Rhodopirellulaceae	Rhodopirellula
1506	0	0	5	0	0	Planktomyces	Planktomyctales	Gemmatales	unclassified	unclassified
1550	0	1	0	0	0	Planktomyces	Planktomyctales	Gemmatales	Gemmataceae	Gemmata
1606	0	0	2	0	0	Planktomyces	Planktomyctales	Gemmatales	Isosphaeraceae	unclassified
1618	0	0	1	0	0	Planktomyces	Planktomyctales	Gemmatales	unclassified	unclassified
1681	0	0	0	1	0	Planktomyces	Planktomyctales	Gemmatales	Isosphaeraceae	unclassified
4	0	0	1	0	0	Proteobacteria	Alphaproteobacteria	unclassified	unclassified	unclassified
6	1	0	0	0	0	Proteobacteria	Betaproteobacteria	unclassified	unclassified	unclassified
11	4	2	0	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Erythrobacteraceae	unclassified
16	0	0	1	2	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Aurantimonadaceae	unclassified
17	0	1	0	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	unclassified
28	0	3	1	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Erythrobacteraceae	unclassified
34	0	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Sphingomonadaceae	unclassified
35	1	2	0	1	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	unclassified
39	1	0	0	0	0	Proteobacteria	Alphaproteobacteria	unclassified	unclassified	unclassified
40	0	2	0	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	unclassified
43	0	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	unclassified	unclassified
46	0	0	1	0	0	Proteobacteria	Betaproteobacteria	unclassified	unclassified	unclassified
47	0	0	2	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Sphingomonadaceae	unclassified
51	0	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhodobacteraceae	Rubellimicrobium
52	0	4	0	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhodobacteraceae	unclassified
54	1	1	0	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Acetobacteraceae	Roseomonas
56	0	2	4	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Methylobacteriaceae	Methylobacter
58	0	0	0	2	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhodobacteraceae	unclassified
60	0	1	0	0	0	Proteobacteria	Delta proteobacteria	Rhizobiales	Syntrophobacteraceae	unclassified
61	0	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Acetobacteraceae	unclassified
62	0	0	1	0	0</td					

Table SS (part K): OTUs, no. of reads and corresponding taxonomic affiliation of detected bacterial 16S rRNA amplicons by 454 pyrotag sequencing. Please note, the data shown here was either rank normalized or sum normalized (to 5000 reads per sample) before performing statistical analysis as depicted in the manuscript.

Samples and no. of reads				taxonomic classification of bacterial 16S rRNA gene amplicons						
OTU	UR	CO	CR8	CR5	phylum	class	order	family	genus	
255	0	1	0	0	Proteobacteria	unclassified	unclassified	unclassified		
256	0	1	0	1	Proteobacteria	Alphaproteobacteria	Rhizobiales	Methyllobacteriaceae	Methyllobacterium	
265	0	2	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	unclassified	
273	0	2	0	0	Proteobacteria	Gammaproteobacteria	Legionellales	Legionellaceae	Legionella	
275	0	2	0	0	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobactraceae	Brevundimonas	
277	0	0	0	1	Proteobacteria	Betaproteobacteria	unclassified	unclassified		
278	0	0	2	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	
279	0	1	1	1	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobactraceae	unclassified	
283	0	2	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Zymomonas	
289	0	0	2	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium	
291	0	1	0	0	Proteobacteria	Gammaproteobacteria	unclassified	unclassified		
292	0	0	1	0	Proteobacteria	Gammaproteobacteria	Enterobacterales	Enterobacteriaceae	unclassified	
296	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	unclassified	
297	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Acetobacteraceae	unclassified	
300	0	1	0	0	Proteobacteria	Gammoproteobacteria	unclassified	unclassified		
304	15	13	12	12	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	unclassified	
310	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	unclassified	
318	1	5	0	0	Proteobacteria	Gammoproteobacteria	Xanthomonadales	Xanthomonadaceae	Rhodobacter	
320	0	1	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	unclassified	
323	0	0	0	1	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	unclassified	
327	0	0	0	2	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae	unclassified	
330	0	1	1	0	Proteobacteria	Gammoproteobacteria	Xanthomonadales	Xanthomonadaceae	Xanthomonas	
331	0	1	1	1	Proteobacteria	Gammoproteobacteria	Xanthomonadales	Xanthomonadaceae	Stenotrophomonas	
332	0	1	0	1	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	unclassified	
335	3	13	7	30	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Novosphingiobium	
336	0	0	4	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	unclassified	
340	0	0	0	2	Proteobacteria	Gammoproteobacteria	Vibrionales	Vibrionaceae	Vibrio	
350	2	5	2	1	Proteobacteria	Gammoproteobacteria	Xanthomonadales	Xanthomonadaceae	unclassified	
358	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae	Roseomonas	
360	0	1	0	0	Proteobacteria	Gammoproteobacteria	Xanthomonadales	Xanthomonadaceae	Lysobacter	
363	0	0	0	2	Proteobacteria	Gammoproteobacteria	Xanthomonadales	Xanthomonadaceae	Stenotrophomonas	
364	1	0	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	
369	0	1	0	0	Proteobacteria	Betaproteobacteria	unclassified	unclassified		
374	0	6	7	6	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae	unclassified	
375	0	15	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	Alcaligenes	
376	0	2	0	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	unclassified	
377	1	0	0	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	unclassified	
379	0	2	3	1	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiateaceae	Devosia	
381	1	0	1	1	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Amaricoccus	
383	2	0	1	0	Proteobacteria	Gammoproteobacteria	Xanthomonadales	Xanthomonadaceae	Pseudoxanthomonas	
384	0	2	37	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	unclassified	
385	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	unclassified		
386	0	1	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	unclassified	
392	0	1	0	0	Proteobacteria	Betaproteobacteria	Neisseriales	Neisseriaceae	Kingella	
396	0	0	31	0	Proteobacteria	Gammoproteobacteria	Legionellales	Legionellaceae	unclassified	
402	0	0	2	0	Proteobacteria	Betaproteobacteria	Burkholderiales	unclassified		
406	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	unclassified	
420	0	1	0	2	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae	Roseomonas	
422	0	1	1	0	Proteobacteria	Gammoproteobacteria	Rhodospirillales	Acetobacteraceae	unclassified	
424	1	0	1	0	Proteobacteria	Alphaproteobacteria	Kinorhyncales	Xanthomonadaceae	Xanthomonas	
435	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	unclassified	
440	0	1	0	1	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rubellimicrobium	Rubellimicrobium	
446	0	7	0	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	unclassified	
449	0	1	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	unclassified	
457	0	2	0	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	
458	0	0	0	1	Proteobacteria	unclassified	unclassified			
459	0	0	0	1	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	
475	0	0	1	0	Proteobacteria	Deltaproteobacteria	CD0005-828-02	unclassified		
484	0	0	3	0	Proteobacteria	Gammoproteobacteria	Xanthomonadales	Xanthomonadaceae	unclassified	
486	0	3	0	0	Proteobacteria	Betaproteobacteria	unclassified	unclassified		
488	0	2	0	0	Proteobacteria	Gammoproteobacteria	unclassified	unclassified		
490	0	6	0	5	Proteobacteria	Alphaproteobacteria	Rhizobiales	Methyllobacteriaceae	Methyllobacterium	
491	2	2	0	1	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Amaricoccus	
494	0	1	0	0	Proteobacteria	Gammoproteobacteria	Enterobacterales	Enterobacteriaceae	unclassified	
495	0	1	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	unclassified	
501	0	0	1	0	Proteobacteria	Gammoproteobacteria	Chromatiales	Sinobacteraceae	unclassified	
505	0	0	0	1	Proteobacteria	Deltaproteobacteria	Myxococcales	Polyangaceae	unclassified	
508	0	0	1	1	Proteobacteria	Alphaproteobacteria	Rhizobiales	Methyllobacteriaceae	Methyllobacterium	
509	0	0	3	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Kaiyobacter	Kaiyobacter	
511	0	1	3	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiateaceae	Rhodoplasma	
512	1	0	2	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Brahyrhizobiaceae	Bosea	
522	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	unclassified	
523	0	1	0	0	Proteobacteria	Betaproteobacteria	Rhodocyclales	Rhodocyclaceae	Aromatoleum	
531	0	2	2	0	Proteobacteria	Alphaproteobacteria	Rickettsiales	Rickettsiaceae	Rickettsia	
538	0	1	0	0	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobacteraceae	unclassified	
539	0	11	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	unclassified	
540	0	1	0	0	Proteobacteria	Betaproteobacteria	Gallionellales	Gallionellaceae	unclassified	
544	0	13	4	6	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	
549	0	0	4	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Aurantimonadaceae	unclassified	
550	0	1	0	1	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Amaricoccus	
552	0	0	1	0	Proteobacteria	Alphaproteobacteria	unclassified	unclassified		
556	1	3	1	0	Proteobacteria	Gammoproteobacteria	Sphingomonadales	Xanthomonadaceae	Xanthomonas	
558	0	0	4	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Lyngbyaceae	unclassified	
561	0	2	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Aurantimonadaceae	unclassified	
564	0	1	0	0	Proteobacteria	Deltaproteobacteria	M246	unclassified		
570	0	1	0	0	Proteobacteria	Deltaproteobacteria	Bdellovibrionales	Bdellovibrionaceae	Bdellovibrion	
576	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae	unclassified	
582	0	8	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiateaceae	Devosia	
590	0	0	1	0	Proteobacteria	Gammoproteobacteria	Chromatiales	Sinobacteraceae	unclassified	
600	5	6	34	5	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	
605	0	0	2	2	Proteobacteria	Alphaproteobacteria	Rhizobiales	unclassified		
607	0	4	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Kaiyobacter	
608	0	0	0	1	Proteobacteria	Pseudoproteobacteria	Moraxellales	Psychrobacteraceae	Psychrobacter	
609	0	8	9	11	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae	Roseomonas	
627	0	0	2	0	Proteobacteria	Gammoproteobacteria	Pseudomonadales	Pseudomonadaceae	Nitrosomonas	
628	1	0	0	0	Proteobacteria	Betaproteobacteria	Rhodocyclales	unclassified		
629	1	0	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Tetrasporangium	
630	0	1	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	unclassified	
631	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae	Roseomonas	

Table SS (part L): OTUs, no. of reads and corresponding taxonomic affiliation of detected bacterial 16S rRNA amplicons by 454 pyrotag sequencing. Please note, the data shown here was either rank normalized or sum normalized (to 5000 reads per sample) before performing statistical analysis as depicted in the manuscript.

Samples and no. of reads				taxonomic classification of bacterial 16S rRNA gene amplicons						
OTU	UR	CO	CR8	CR5	phylum	class	order	family	genus	
633	0	0	2	0	Proteobacteria	Betaproteobacteria	unclassified	unclassified		
634	0	1	0	0	Proteobacteria	Gammoproteobacteria	Enterobacterales	Enterobacteriaceae	unclassified	
639	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhodobacteraceae	unclassified	
642	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhodobacteraceae	unclassified	
652	2	10	0	8	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	
654	0	1	4	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhodobacteraceae	unclassified	
655	0	0	1	0	Proteobacteria	Gammoproteobacteria	Chromatiales	Sinobacteraceae	unclassified	
662	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	unclassified	
664	0	0	2	2	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Erythrobacteraceae	unclassified	
665	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	unclassified	
666	0	5	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Burkholderiaceae	unclassified	
668	0	0	3	0	Proteobacteria	Gammoproteobacteria	unclassified	unclassified		
670	0	1	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Sphingomonadaceae	unclassified	
675	2	2	13	1	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhodobacteraceae	Skermanella	
676	0	1	0	0	Proteobacteria	Betaproteobacteria	unclassified	unclassified		
677	0	0	1	0	Proteobacteria	Gammoproteobacteria	unclassified	unclassified		
678	0	0	7	2	Proteobacteria	Gammoproteobacteria	Pasteurellales	Pasteurellaceae	Haemophilus	
680	0	7	0	2	Proteobacteria	Gammoproteobacteria	unclassified	unclassified		
681	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobacterales	Caulobacteraceae	Brevundimonas	
682	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobacterales	Rhodobacteraceae	unclassified	
684	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhizobacterales	Rhodobacteraceae	unclassified	
685	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobacterales	Rhodobacteraceae	unclassified	
686	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobacterales	Rhodobacteraceae	unclassified	
687	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobacterales	Rhodobacteraceae	unclassified	
688	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobacterales	Rhodobacteraceae	unclassified	
689	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobacterales	Rhodobacteraceae	unclassified	
690	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobacterales	Rhodobacteraceae	unclassified	
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Table SS (part M): OTUs, no. of reads and corresponding taxonomic affiliation of detected bacterial 16S rRNA amplicons by 454 pyrotag sequencing. Please note, the data shown here was either rank normalized or sum normalized (to 5000 reads per sample) before performing statistical analysis as depicted in the manuscript.

Samples and no. of reads				taxonomic classification of bacterial 16S rRNA gene amplicons						
OTU	UR	CO	CR8	CR5	phylum	class	order	family	genus	
917	0	3	4	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	
919	1	0	2	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	unclassified	
923	0	0	1	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	
924	0	0	0	3	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	unclassified	
926	0	0	0	1	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	Mesorhizobium	
930	0	1	0	3	Proteobacteria	Alphaproteobacteria	Sphingomonadales	unclassified	unclassified	
945	0	0	2	0	Proteobacteria	Gammaproteobacteria	Legionellales	Legionellaceae	Legionella	
950	2	0	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingobium	
951	0	0	0	3	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	unclassified	
952	0	0	0	0	Proteobacteria	Delta proteobacteria	Myxococcales	Myxococcaceae	unclassified	
954	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	unclassified	
956	0	1	0	0	Proteobacteria	Alphaproteobacteria	Cyanobacterales	Xanthophyceae	Xanthophyces	
958	0	1	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingobium	
961	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium	
965	0	8	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia	
966	0	1	0	0	Proteobacteria	Gammaproteobacteria	Oceanospirillales	OM60	unclassified	
967	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Methyllobacteriaceae	Methyllobacterium	
974	1	1	0	0	Proteobacteria	Epsilonproteobacteria	Campylobacterales	Campylobacteraceae	Campylobacter	
975	0	4	7	1	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia	
979	1	5	2	1	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	unclassified	
982	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	unclassified	
983	2	0	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	unclassified	
988	0	1	1	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	unclassified	
989	0	0	1	1	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	unclassified	
990	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	unclassified	unclassified	
1004	0	1	0	1	Proteobacteria	Alphaproteobacteria	unclassified	unclassified	unclassified	
1005	0	3	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	
1006	0	0	4	1	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	unclassified	
1010	0	0	1	0	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Psychrobacter		
1012	0	1	0	0	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	unclassified	
1016	0	16	0	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Paracoccus		
1017	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	Azospirillum	
1018	0	0	3	2	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium	
1023	0	0	4	0	Proteobacteria	Betaproteobacteria	unclassified	unclassified	unclassified	
1025	0	0	1	0	Proteobacteria	Delta proteobacteria	Myxococcales	Hallangiaeace	unclassified	
1035	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae	Roseomonas	
1037	0	3	0	0	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	unclassified	
1040	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	unclassified	unclassified	
1042	0	1	0	0	Proteobacteria	Alphaproteobacteria	unclassified	unclassified	unclassified	
1043	0	0	0	3	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	
1044	0	0	1	0	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	unclassified	
1046	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae	unclassified	
1047	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	unclassified	
1052	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rubellimicrobium		
1055	0	1	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae		
1056	0	6	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	unclassified		
1059	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Ackto bacteraceae	unclassified	
1061	0	2	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	unclassified	
1063	1	1	3	1	Proteobacteria	Alphaproteobacteria	Rhizobiales	Methyllobacteriaceae	Methyllobacterium	
1065	0	16	0	0	Proteobacteria	Gammaproteobacteria	Oceanospirillales	Alteromonadaceae	Marinobacter	
1066	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	unclassified	unclassified	
1067	1	0	4	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Bhodospirillaceae	unclassified	
1075	0	0	1	0	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Kanthomonas	
1082	0	0	0	1	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae	unclassified	
1086	0	1	0	1	Proteobacteria	Alphaproteobacteria	Rhizobiales	Methyllobacteriaceae	Methyllobacterium	
1087	0	2	1	1	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	unclassified	
1092	0	0	0	1	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	Massilia	
1093	1	13	9	2	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae	unclassified	
1097	1	0	0	0	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	
1100	1	4	4	1	Proteobacteria	Betaproteobacteria	Burkholderiales	unclassified	unclassified	
1104	3	0	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Kaistobacter	
1110	3	2	0	1	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	unclassified	
1114	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium	
1122	0	5	1	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Amaricoccus	
1124	0	0	6	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	unclassified	
1125	0	0	5	0	Proteobacteria	Gammaproteobacteria	Enterobacterales	Pantoea		
1129	0	4	0	1	Proteobacteria	Alphaproteobacteria	Rhizobiales	unclassified	unclassified	
1130	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae	unclassified	
1134	0	1	5	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae	unclassified	
1136	0	2	0	0	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	unclassified	
1143	0	1	0	0	Proteobacteria	Delta proteobacteria	CT0008-82B-02	unclassified	unclassified	
1147	0	0	1	0	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	unclassified	
1151	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	unclassified	
1153	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Methylocystaceae	unclassified	
1155	2	4	0	1	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Erythrobacteraceae	unclassified	
1159	0	5	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	unclassified	unclassified	
1163	0	3	0	1	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	unclassified	
1172	0	3	0	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	unclassified	
1175	44	0	1	0	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Stenophomonas	
1177	1	0	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	unclassified	unclassified	
1185	0	2	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Hydrogenophaga	
1186	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	unclassified	
1187	0	1	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Zymomonas		
1189	0	3	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	unclassified	
1194	0	31	0	0	Proteobacteria	Betaproteobacteria	Nitrosomonadales	Nitrosomonadaceae	unclassified	
1199	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Acetobacteraceae	unclassified	
1201	0	5	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Aurantimonas		
1206	0	3	5	0	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Lysobacter	Rubellimicrobium	
1208	8	40	9	14	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	unclassified	
1212	0	0	0	1	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	unclassified	
1214	1	0	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Beijerinckiaceae	unclassified	
1226	0	1	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	
1229	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	unclassified	unclassified	
1232	0	0	3	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	unclassified	
1238	0	0	1	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	unclassified	
1248	0	1	0	0	Proteobacteria	Delta proteobacteria	Myxococcales	Nannocystaceae	Nannocystis	
1251	1	3	2	6	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Deltella	

Table SS (part N): OTUs, no. of reads and corresponding taxonomic affiliation of detected bacterial 16S rRNA amplicons by 454 pyrotag sequencing. Please note, the data shown here was either rank normalized or sum normalized (to 5000 reads per sample) before performing statistical analysis as depicted in the manuscript.

Samples and no. of reads				taxonomic classification of bacterial 16S rRNA gene amplicons						
OTU	UR	CO	CR8	CR5	phylum	class	order	family	genus	
1254	0	1	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Methylibacaceae	Methylibium	
1260	3	3	8	3	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	Pseudomonas	
1261	1	1	2	0	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	Pseudomonas	
1263	0	3	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	unclassified	unclassified	
1266	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	unclassified	
1267	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rickettiales	Holosporaceae	unclassified	
1268	0	0	1	4	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes	
1269	0	4	0	2	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium	
1271	0	1	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	unclassified	
1277	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	unclassified	unclassified	
1280	1	5	3	4	Proteobacteria	Gammaproteobacteria	Kathemonadales	Xanthomonadaceae	Thermomonas	
1282	2	0	0	0	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Pseudoxanthomas	
1283	0	0	2	0	Proteobacteria	Betaproteobacteria	Neisseriales	Neisseriaceae	unclassified	
1285	0	1	0	2	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Amaricoccus	
1286	2	0	0	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Magnetospirillum	
1287	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	Magnetospirillum	
1290	0	0	1	0	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Pseudoxanthomas	
1291	1	1	0	0	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	Neisseriaceae	
1292	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Psychrobacteraceae	Psychrobacter	
1294	0	0	1	0	Proteobacteria	Betaproteobacteria	Neisseriales	Neisseriaceae	Stenovibacter	
1295	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Psychrobacteraceae	Psychrobacter	
1296	0	1	0	0	Proteobacteria	Betaproteobacteria	Neisseriales	Neisseriaceae	Psychrobacter	
1297	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Psychrobacteraceae	Psychrobacter	
1298	0	0	1	0	Proteobacteria	Betaproteobacteria	Neisseriales	Neisseriaceae	Psychrobacter	
1299	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Psychrobacteraceae	Psychrobacter	
1300	0	1	0	0	Proteobacteria	Betaproteobacteria	Neisseriales	Neisseriaceae	Psychrobacter	
1301	1	0								

Table S5 (part 0): OTUs, no. of reads and corresponding taxonomic affiliation of detected bacterial 16S rRNA amplicons by 454 pyrotag sequencing. Please note, the data shown here was either rank normalized or sum normalized (to 5000 reads per sample) before performing statistical analysis as depicted in the manuscript.

OTU	UR	CO	CR8	CR5	taxonomic classification of bacterial 16S rRNA gene amplicons				
					phylum	class	order	family	genus
1621	0	0	1	0	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	unclassified
1624	0	5	2	3	Proteobacteria	Betaproteobacteria	Burkholderiales	Burkholderiaceae	unclassified
1627	0	1	0	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Devosia
1633	0	0	2	0	Proteobacteria	undclassified	undclassified	undclassified	undclassified
1637	2	5	4	12	Proteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	
1639	2	1	1	1	Proteobacteria	Betaproteobacteria	Neisseriales	Neisseriaceae	Neisseria
1640	0	0	0	2	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Amaricoccus
1641	0	0	0	1	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	unclassified
1643	15	6	11	7	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Moraxellaceae	Enhydrobacter
1646	0	0	2	1	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Caulobacter
1647	0	1	0	0	Proteobacteria	undclassified	undclassified	undclassified	undclassified
1648	0	2	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	Alcaligenes
1654	0	3	2	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	undclassified
1655	0	1	0	1	Proteobacteria	Alphaproteobacteria	Rhizobiales	undclassified	undclassified
1661	30	1	14	6	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Stenotrophomonas
1662	0	0	2	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	unclassified
1666	0	6	0	0	Proteobacteria	Betaproteobacteria	Burkholderiales	Burkholderiaceae	unclassified
1667	0	1	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingobium
1673	1	0	0	0	Proteobacteria	Gammaproteobacteria	undclassified	undclassified	undclassified
1674	0	0	0	1	Proteobacteria	Gammaproteobacteria	Pasteurellales	Pasteurellaceae	Haemophilus
1675	0	2	1	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	undclassified	undclassified
1679	0	0	1	1	Proteobacteria	Gammaproteobacteria	Aeromonadales	Aeromonadaceae	Aeromonas
1682	0	0	2	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Methylbacteriaceae	Methylbacterium
1683	0	0	1	0	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	undclassified
1690	3	17	9	6	Proteobacteria	Alphaproteobacteria	Sphingomonadales	undclassified	unclassified
1692	0	1	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	undclassified	unclassified
1695	0	1	0	0	Proteobacteria	Alphaproteobacteria	undclassified	undclassified	unclassified
1702	2	2	0	1	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas
1703	5	0	2	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingobium
1712	0	2	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Zymomonas
1713	0	6	0	1	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Erythrobacteraceae	undclassified
1714	0	2	0	0	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	undclassified
1715	1	1	0	2	Proteobacteria	Betaproteobacteria	Neisseriales	Neisseriaceae	Neisseria
1716	0	2	1	4	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium
1718	1	3	7	0	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	Mesorhizobium
1719	0	0	2	0	Proteobacteria	Gammaproteobacteria	Legionellales	Coxiellaceae	undclassified
339	0	2	0	0	SC4	undclassified	undclassified	undclassified	unclassified
536	0	3	1	0	SC4	undclassified	undclassified	undclassified	unclassified
565	0	7	0	4	SC4	undclassified	undclassified	undclassified	unclassified
626	1	0	0	0	SC4	undclassified	undclassified	undclassified	unclassified
1015	0	2	0	0	SC4	undclassified	undclassified	undclassified	unclassified
1133	1	0	0	0	SC4	undclassified	undclassified	undclassified	unclassified
1328	0	1	0	0	SC4	undclassified	undclassified	undclassified	unclassified
322	2	0	0	0	Spirochaetes	Spirochaetes	Spirochaetales	Spirochaetaceae	Treponema
483	0	0	2	0	Tenericutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	ATCC_27806
130	0	5	0	3	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus
189	1	27	4	14	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus
433	0	7	3	2	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus
613	0	1	0	0	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus
746	0	1	0	0	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus
758	0	21	0	0	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus
995	0	1	0	0	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus
1191	0	3	0	2	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus
1197	0	1	0	0	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus
1220	0	0	0	2	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus
1449	0	5	1	0	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus
1461	0	2	0	1	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus
1527	0	1	0	1	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus
1623	0	2	0	0	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus
1670	0	1	0	1	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus
756	0	0	0	1	TM6	SIA-4	undclassified	undclassified	unclassified
68	0	0	0	1	undclassified	undclassified	undclassified	undclassified	unclassified
71	0	0	0	3	undclassified	undclassified	undclassified	undclassified	unclassified
143	0	0	1	0	undclassified	undclassified	undclassified	undclassified	unclassified
157	0	0	3	0	undclassified	undclassified	undclassified	undclassified	unclassified
178	0	1	0	0	undclassified	undclassified	undclassified	undclassified	unclassified
290	0	0	1	0	undclassified	undclassified	undclassified	undclassified	unclassified
498	0	1	0	0	undclassified	undclassified	undclassified	undclassified	unclassified
525	0	1	0	0	undclassified	undclassified	undclassified	undclassified	unclassified
548	0	2	0	2	undclassified	undclassified	undclassified	undclassified	unclassified
567	0	1	0	0	undclassified	undclassified	undclassified	undclassified	unclassified
894	0	2	0	0	undclassified	undclassified	undclassified	undclassified	unclassified
906	0	1	0	0	undclassified	undclassified	undclassified	undclassified	unclassified
996	0	0	2	0	undclassified	undclassified	undclassified	undclassified	unclassified
1021	0	1	0	1	undclassified	undclassified	undclassified	undclassified	unclassified
1057	0	0	0	1	undclassified	undclassified	undclassified	undclassified	unclassified
1132	0	1	0	0	undclassified	undclassified	undclassified	undclassified	unclassified
1148	0	1	1	0	undclassified	undclassified	undclassified	undclassified	unclassified
1174	1	0	0	0	undclassified	undclassified	undclassified	undclassified	unclassified
1370	0	1	0	0	undclassified	undclassified	undclassified	undclassified	unclassified
1474	0	2	0	0	undclassified	undclassified	undclassified	undclassified	unclassified
1512	0	1	0	0	undclassified	undclassified	undclassified	undclassified	unclassified
1514	1	1	0	0	undclassified	undclassified	undclassified	undclassified	unclassified
317	0	1	0	0	Verrucomicrobia	Verrucomicrobiales	Verrucomicrobiaceae	Luteolibacter	
663	0	1	0	0	Verrucomicrobia	Verrucomicrobiales	Verrucomicrobiaceae	unclassified	
1240	0	2	0	0	Verrucomicrobia	Verrucomicrobiales	Verrucomicrobiaceae	unclassified	
1306	0	0	2	1	WPS-2	undclassified	undclassified	undclassified	unclassified

Table S6 (part A): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

OTU	Sample ID (PMA)			Sample ID			taxonomic classification of representative rOTU cluster										
	UR	PMA	CR8	PMA	CR5	PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species
51048	11074	9537	7473	7676	12119	12905	11946	12128	bacteria	Actinobacteria	Actinobacteria	Actinobacteriales	Actinobacteriaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
51676	10625	8865	7605	8865	12080	12908	11982	12128	bacteria	Actinobacteria	Actinobacteria	Actinobacteriales	Actinobacteriaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
8241	8284	7624	7059	7101	11051	12004	11946	12128	bacteria	Actinobacteria	Actinobacteria	Actinobacteriales	Actinobacteriaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
51631	8654	11058	7598	7803	10498	12046	11930	12128	bacteria	Actinobacteria	Actinobacteria	Actinobacteriales	Actinobacteriaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
41110	9394	9812	9028	8571	11146	12119	11701	12128	bacteria	Actinobacteria	Actinobacteria	Actinobacteriales	Actinobacteriaceae	Actinomycetales	Actinomycetaceae	Actinomyces	undclassified
41206	8548	9407	8034	7231	12209	13120	12520	12620	bacteria	Actinobacteria	Actinobacteria	Actinobacteriales	Actinobacteriaceae	Actinomycetales	Actinomycetaceae	Actinomyces	undclassified
42682	8870	8815	6768	7747	11632	12518	11740	12404	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	undclassified
42676	10082	11138	10557	9552	12789	13551	13080	13114	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	undclassified
42318	10167	11183	9658	8898	12932	13801	13208	13248	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	undclassified
42297	9160	9210	6608	7644	13849	13240	11640	11608	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	undclassified
43027	9217	9087	6794	7809	11092	12126	11774	12128	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	undclassified
44151	8746	9822	6076	6581	12048	12932	12226	12160	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	undclassified
42622	8864	9836	6081	7803	11634	12211	11964	12874	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	undclassified
42505	8724	7349	6302	7803	11461	12759	11561	12460	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	undclassified
42475	9891	9898	8323	7476	12610	13126	12211	12758	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	undclassified
42497	9314	8853	6689	7591	11849	12442	11755	12259	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	undclassified
42599	9438	10753	5703	6514	12747	13637	13055	13063	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	undclassified
40211	8773	9084	7343	6540	12050	12976	12044	12808	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	undclassified
40164	9491	9625	7421	8357	11704	11639	11670	11878	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	Actinomycetes oris
40286	9279	9772	7326	8325	12002	11710	12093	12078	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	Actinomycetes oris
40334	9764	9699	8250	8768	12126	12583	12826	12828	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	Actinomycetes oris
40651	8960	7950	7649	8314	11540	11376	11917	11954	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	Actinomycetes oris
40779	10193	9968	7661	8746	12720	12571	12272	12842	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	Actinomycetes oris
39415	8376	9079	6249	7222	12821	12764	12279	12454	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
39607	9396	10711	8133	7473	12624	13024	12548	13028	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
40407	9409	8817	8061	8801	11817	11765	12035	11644	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
40442	8297	9205	6854	7601	11861	12515	12460	12462	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
40443	9397	8451	7079	7914	11586	11424	11841	11716	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
40492	8452	9830	6650	8121	11669	12759	11720	11729	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
40549	8102	7004	6119	6585	11306	12074	11781	11994	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
40733	8217	8389	7963	8268	12059	12059	12296	12094	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
40774	8679	7404	6608	7624	11444	12021	11831	10993	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
40838	8679	7404	6608	7624	11444	12021	11831	10999	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
40892	8692	10148	6712	8176	11996	12310	12270	12210	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
40929	9151	10014	9338	9315	12076	12261	12288	11978	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
40958	8277	8751	6791	7599	11764	11861	12119	11709	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomycetales	Actinomycetaceae	Actinomyces	unclassified
37393	9594	8836	6959	7796	12110	12914	13118	12818	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Actinomycetospora diospyrosa
37407	8258	8441	6571	7393	12133	13036	12949	12954	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Actinomycetospora diospyrosa
37619	9520	11856	6986	7510	12591	13081	13156	13624	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Actinomycetospora diospyrosa
40115	8003	7830	6291	6853	11559	11598	12824	12828	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Actinomycetospora diospyrosa
40927	9527	9584	6806	8091	12541	13044	13144	13144	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Actinomycetospora diospyrosa
40968	8457	6804	6009	10995	12211	13151	13170	13170	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Actinomycetospora diospyrosa
40983	8132	7665	6485	7091	11503	12110	12207	12420	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Actinomycetospora paucovorans
40719	9426	10436	6956	7610	13103	13086	13200	13115	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Brevibacterium
40792	8560	10614	7189	7526	12036	13134	13220	13011	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Brevibacterium
40882	9463	10346	7024	8655	12328	12704	12525	12529	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Brevibacterium
40611	10109	11102	7501	8998	12542	13354	12606	12824	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Cellulomonas
40639	8615	8921	6867	7691	10864	12266	12023	12023	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Cellulomonas
40917	9715	11373	6521	7491	12021	13246	12229	12515	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Cellulomonas
40295	10814	11566	7567	9452	12986	13649	13031	13159	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Cellulomonas
37633	10534	10322	7026	9033	12425	13026	12133	12560	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Cellulomonas
40335	8342	9124	6965	8023	12809	13096	13080	13080	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Corynebacteriaceae
37247	8676	7711	6992	7303	12262	12298	12360	12388	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Corynebacteriaceae
37280	10312	9674	6906	8037	10347	13406	13671	12428	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Corynebacteriaceae
37312	9859	9573	9186	9012	12026	12668	12570	12768	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Corynebacteriaceae
28504	12552	13345	12771	12431	14091	14193	13954	14258	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Corynebacteriaceae
28641	13072	13073	12236	11584	14387	14181	14183	14399	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Corynebacteriaceae
28655	8300	8544	5900	6775	11792	13045	12271	13038	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Corynebacteriaceae
28664	8664	8967	6315	7030	11511	12106	11882	12238	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Corynebacteriaceae
28691	12291	12293	10928	11004	13048	14346	14164	14500	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Corynebacteriaceae
28692	10827	11892	10004	8242	14000	13988	13188	13436	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Corynebacteriaceae
20742	12199	12633	11640	11491	14461	14216	14205	14646	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Corynebacteriaceae
29901	9067	8180	6946	7002	11722	12451	12005	13075	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Corynebacteriaceae
29909	9162	8756	6483	7703	12114	12426	12290	13628	bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Actinosynnemataceae	Actinosynnemataceae	Actinosynnemataceae	Actinomycetospora	Corynebacteriaceae
30016	9337	8342	7502	8444	11286	12261											

Table S6 (part B): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

OTU	UR_PMA	Sample ID (PMA)			Sample ID			taxonomic classification of representative rOTU cluster								
		CO_PMA	CR8_PMA	CR5_PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species	
30922	10373	10454	8707	8517	12929	12691	12452	12886	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
30996	12222	12760	10988	14214	14191	14124	14459	14479	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
31080	9314	8137	6294	7015	12274	12638	12697	13365	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
31163	10500	11612	8983	7813	13198	13358	13327	13901	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
31205	8507	9169	6453	6700	12331	12816	12185	12316	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
31218	11793	12448	12025	10813	13393	13883	14078	14047	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
31307	12659	13217	12838	12695	14441	14081	14040	14276	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
31479	9451	9962	7306	7278	13363	13645	13557	13974	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
31616	10603	11130	10605	9112	13126	13280	13095	13564	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
31655	10422	10609	10206	8642	13148	13277	13168	13663	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
31702	11115	12178	10364	9869	13972	14034	14073	14148	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
31823	12685	13255	12801	12801	13254	13243	13243	13254	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
32211	11851	11849	11410	9988	12254	12829	12705	12730	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
32244	12760	13261	11830	14620	14455	14479	14615	14701	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
32357	9158	8017	5239	6805	13063	12974	12053	14157	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
32411	11695	12821	11480	12823	14297	14285	14262	14482	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
32607	9150	9009	7498	8219	13673	13435	13228	13828	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
32857	10302	10739	9588	10739	14267	14067	14067	14267	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
33058	9596	10293	7924	7646	13189	13426	13207	13828	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
33189	8282	7098	7029	6452	11563	12198	11608	12203	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
33258	12061	12805	11219	10985	14626	14412	14540	14612	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
33300	9380	9599	9276	8510	12013	12823	12142	12993	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
33488	10117	10731	9727	8705	13740	13750	13276	14094	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
33570	8889	7768	7373	7996	11803	12598	11937	12860	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
33576	9333	9679	7246	8438	13185	13328	13463	13959	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
33646	9162	9190	7287	7727	12350	12673	12764	13269	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
33688	10768	11096	10387	9381	13413	13525	13395	13879	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
33700	9764	9571	7701	8393	13794	13858	13777	14185	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
33847	9439	9823	9046	7341	12809	13057	13074	13736	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
33873	12069	12643	12338	11191	13843	13908	13846	14084	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
33892	9209	8728	8433	7564	11878	12190	12006	13248	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
33895	11661	12201	11485	10972	14261	14026	14021	14230	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
34124	10599	11253	10483	9446	13330	13446	13352	13744	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
34240	10319	10367	9868	8243	12765	12813	12536	13491	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
34246	9471	9897	7917	8066	13463	13371	13293	14082	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
34266	11633	12121	11950	11279	13315	13638	13311	13725	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
34318	10559	11709	9328	8460	13727	13778	14195	14774	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
34389	12411	12911	12439	11489	14537	14472	14436	14753	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
34438	11142	12071	10688	10833	13718	13811	13669	13979	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
34464	12846	13241	12895	11919	13530	13545	13196	13993	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
34708	12165	12920	11517	11517	14645	14442	14263	14588	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
34741	11617	11942	12138	10760	12347	12471	12132	12616	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
34803	8584	6937	6219	7413	12443	12941	13149	13813	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
35009	12382	12781	11656	11667	14461	14219	14240	14635	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
35030	12593	13334	13862	13862	14182	14123	14143	14845	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
35065	11659	12683	11683	12804	14462	14421	14421	14853	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
35128	12688	13478	12571	12571	14642	14231	14405	14675	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
35235	9469	10564	7051	7631	13149	13263	13216	13701	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
35335	13192	13848	13269	12186	14520	14490	14478	14777	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
35340	10076	12268	8816	9572	14429	14107	14343	14777	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
35354	12663	13267	12065	11592	14182	14011	13992	14211	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
35386	10376	11876	10516	10379	14155	14037	14032	14377	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
35586	8917	8721	6578	7789	12940	12847	12707	13279	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
35629	9431	8574	6459	6803	12565	12577	12656	13095	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
35716	9211	9444	8022	7053	12713	12399	12249	13095	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
35819	12146	13134	11335	11260	14471	14322	14467	14531	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
35860	11628	12102	5472	10412	14621	14194	14457	14512	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36035	11334	11878	9930	9930	13715	13703	13622	13993	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36089	8588	7786	7665	8005	13026	12917	13104	13768	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36137	12609	13103	12047	11995	14213	14211	14148	14492	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36142	10472	11118	10642	9533	12990	13059	12886	13725	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36231	8448	8200	6935	7095	12520	12509	12089	13535	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36381	9577	8803	7288	6965	13476	13260	13495	13919	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36510	10981	12104	10924	10974	13874	14234	14244	14444	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36542	12432	12836	12629	12629	13107	13047	12948	12974	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36693	11379	11661	10906	7367	12933	13243	13192	13892	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36787	9059	7526	7964	7964	13164	12688	11678	12524	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36803	11207	10646	9134	7555	12274	12740	13469	14195	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36804	9113	7873	7267	7252	12740	12626	12674	13734	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36823	9624	8449	6599	7095	12525	12529	12612	13780	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36870	8249	8449	6599	8045	12433	12377	12450	13037	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36967	10232	10255	9473	9473	12819	12947	12943	13843	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36982	8852	9151	6964	7755	12274	12740	13469	14195	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	unclassified		
36990	8827	9109</td														

Table S6 (part C): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

OTU	UR	PMA	Sample ID (PMA)			Sample ID			taxonomic classification of representative rOTU cluster										
			CO	PA	CR8	PA	CR5	PA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species
36980	11038	11840	10630	9993	12980	13378	13163	13797	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
36983	9012	8932	7021	8014	11258	12006	11671	12191	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
36992	9917	10596	8822	8990	13864	13787	1329	13844	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37002	9980	9615	6823	7457	13462	13481	13424	13879	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37004	8635	9012	6394	7853	12554	12756	1258	13481	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37007	8976	8328	6433	7065	12364	12430	12293	13113	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37025	8329	7521	6914	7137	10594	12507	13131	11626	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37029	11490	11582	10977	7832	13640	13682	13631	14079	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37036	9677	9487	7271	7914	11462	12285	1167	12244	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37046	9860	9379	9118	9565	12595	12653	12654	13568	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37061	8851	7492	6405	6813	12688	12684	12659	14156	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37071	7954	8759	13749	7532	12761	13007	13181	13709	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37076	11521	12446	11997	11524	11985	13815	13657	13920	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37085	7554	6428	6184	7034	12545	12524	12544	13254	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37090	10317	9931	9361	8042	13324	13166	13487	14063	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37097	11064	11769	9333	10117	14240	14058	14395	14695	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37107	9829	9237	7005	7674	12883	13147	13100	13370	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37124	10243	10054	6965	8207	12468	12637	12411	13113	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37125	9746	9459	7201	7622	13031	13217	13196	13557	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37129	10296	9956	7198	8125	13456	13202	13518	14166	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37139	9800	10002	6949	7616	12884	13201	13088	13641	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37198	11045	10310	9000	9106	13083	13212	13283	13585	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37199	8988	8837	7148	7553	12118	12275	12078	13051	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37201	10039	9174	5866	6262	12339	12628	12505	13802	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37226	9315	8626	5638	7035	12098	12888	12323	12884	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37232	10078	9557	7009	7598	13084	13288	13298	13739	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37253	11355	11950	11400	11307	13420	13714	13542	13737	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37255	9608	8594	7817	7653	12903	13093	13205	13613	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37259	10173	10754	8872	8052	12809	13633	12811	13739	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37264	9249	9641	7453	7653	11102	11971	11452	11960	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37268	9330	9481	7481	8006	11307	12095	11636	12108	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37293	9380	8972	8939	8019	12037	12361	12128	12607	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37300	10608	10689	9967	8787	13657	13544	13734	14299	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37315	9461	9038	6173	6944	13024	13290	13320	13958	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37316	9147	8976	6898	7944	12420	12522	12585	13293	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37325	9759	9201	7083	7364	12766	13116	13078	13521	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37329	8951	8633	7396	7341	12241	12561	12553	13625	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37358	10234	8862	6445	750	12024	13558	13459	14085	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37401	9134	8937	7284	8037	12575	12757	12741	13244	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37404	11132	11208	10689	10295	12765	13704	13274	14020	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37408	10974	10751	9751	9763	12600	12674	12033	13245	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37429	11201	11510	10935	10120	12624	12005	12675	13296	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37464	11116	11208	10481	9635	12126	12650	12294	13110	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37476	11458	11533	10720	9804	12764	13109	12758	13205	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37479	11129	11515	10549	9654	12816	13004	12741	13213	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37490	11619	12093	10158	11568	12465	12515	12151	13215	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37735	11003	10551	9651	9651	12046	12575	12191	14746	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37783	10998	10917	10130	1030	13074	13076	13056	13956	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37813	11495	11824	11107	10240	12341	12017	12416	13058	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37820	9193	9339	7901	7934	12034	12910	12283	12856	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37833	11140	11297	10721	9679	11392	12154	11634	12841	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37860	11022	11313	10518	9912	13192	12154	12184	13284	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37877	11809	12591	11554	10472	13300	13600	13386	13816	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
37902	11148	11678	10951	9840	11858	12973	12364	13283	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
38020	9596	9651	8540	8500	13140	13258	12443	13720	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
38164	9740	9454	8419	8804	13265	13477	13272	13769	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
38210	11153	11400	10868	9824	12042	12716	12721	13774	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
38281	11955	11568	10512	9767	12574	13092	12718	13243	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
38393	10707	10533	7066	8232	12807	13029	12788	13055	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
40402	9679	9046	6570	7345	12846	12895	12855	13394	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
40529	9253	10436	6980	7252	12649	12754	12630	13716	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
40531	9407	10265	6426	7158	12728	12794	12716	13710	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
40556	10566	11689	10473	10473	12675	12816	12655	13673	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
40693	9415	10649	6953	7289	12516	12813	12691	13753	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
41018	9615	10271	6964	7656	12269	12303	12339	13622	Bacteria	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	Corynebacterium	unclassified				
40426	8728	8317	6911	7655	12232	12586	12666	13623</											

Table S6 (part D): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

	Sample ID (PMA)				Sample ID				taxonomic classification of representative rOTU cluster										
OTU	UR_PMA	CO_PMA	CR8_PMA	CR5_PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species				
39926	8677	9470	6668	7907	11400	13359	12535	12904	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Geodermatophilaceae	Geodermatophilus	Geodermatophilus	unclassified			
40055	9147	9107	6733	8076	11400	12605	12149	11890	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Geodermatophilaceae	Geodermatophilus	Geodermatophilus	unclassified			
40076	8548	9240	6355	7726	12011	13263	12416	13114	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Geodermatophilaceae	Geodermatophilus	Geodermatophilus	unclassified			
38640	8545	9373	6839	7697	11986	13368	12574	12811	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Geodermatophilaceae	Geodermatophilus	Geodermatophilus	unclassified			
39558	8981	9545	6635	7824	11778	12953	12064	12143	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Geodermatophilaceae	Geodermatophilus	Geodermatophilus	unclassified			
39644	10098	9565	8330	8380	11862	13038	12232	12934	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Geodermatophilaceae	Geodermatophilus	Geodermatophilus	unclassified			
39661	9178	9799	8527	8966	11689	13077	11765	12334	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Geodermatophilaceae	Geodermatophilus	Geodermatophilus	unclassified			
39857	9325	7212	8004	1139	12714	11667	12063	12063	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Geodermatophilaceae	Geodermatophilus	Geodermatophilus	unclassified			
39910	8901	9943	6252	7685	12474	13699	12849	13254	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Geodermatophilaceae	Geodermatophilus	Geodermatophilus	unclassified			
40039	8768	9862	6593	7594	11204	12818	11264	11997	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Geodermatophilaceae	Geodermatophilus	Geodermatophilus	unclassified			
38103	8434	7158	5985	6658	11522	12355	11958	12030	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Gordoniaceae	Gordonia	Gordonia amarae				
38246	8638	6561	5703	6763	11624	12454	11924	12074	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Gordoniaceae	Gordonia	Gordonia	unclassified			
37532	8789	8780	5593	7245	12508	12890	12720	13346	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Gordoniaceae	Gordonia	Gordonia	unclassified			
37553	9556	9776	6482	7455	12509	12891	12720	13346	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Gordoniaceae	Gordonia	Gordonia	unclassified			
38270	8692	5793	5960	6674	12070	12555	11731	12408	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Gordoniaceae	Gordonia	Gordonia	unclassified			
40256	10315	10414	7345	8071	12162	12911	12321	12478	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Intrap戎anoplaceae	Jamibacter	Jamibacter	unclassified			
40278	8961	9450	7068	7207	13002	13709	12889	13781	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Intrap戎anoplaceae	Knoellia	Knoellia subterranea				
40705	8799	10208	6710	6698	12410	13429	12417	12711	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Intrap戎anoplaceae	Knoellia	Knoellia subterranea				
40205	11777	12149	10898	10019	12724	13153	12574	12989	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Intrap戎anoplaceae	Unclassified	Unclassified				
40252	8505	9166	6354	6775	11792	12719	11969	12685	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Intrap戎anoplaceae	Unclassified	Unclassified				
40229	9580	10761	9164	7848	11855	13281	11934	12404	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Intrap戎anoplaceae	Unclassified	Unclassified				
40716	10211	9823	7438	6004	13125	13315	13098	13168	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Intrap戎anoplaceae	Unclassified	Unclassified				
40749	10451	11267	8217	8053	12839	13506	12739	13192	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Intrap戎anoplaceae	Unclassified	Unclassified				
40076	10596	11138	9964	9452	13062	13663	12916	13355	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Intrap戎anoplaceae	Unclassified	Unclassified				
40984	9381	8288	6327	6810	12019	12660	11746	12263	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Intrap戎anoplaceae	Unclassified	Unclassified				
41001	9985	9513	8600	9210	12103	12814	11931	12151	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Intrap戎anoplaceae	Unclassified	Unclassified				
41060	8973	9979	6386	6746	12260	13046	12029	12777	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Intrap戎anoplaceae	Unclassified	Unclassified				
41078	9003	10024	7025	7807	11403	12782	11811	12846	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Intrap戎anoplaceae	Unclassified	Unclassified				
37917	8363	8707	6225	6674	10942	12018	11601	11897	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Kineococcaceae	Kineococcus	Kineococcus radiotolerans				
37763	8425	8342	6163	6380	12031	12835	12655	12610	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Kineococcaceae	Kineococcus	Kineococcus	unclassified			
37881	8911	10936	6506	6950	12552	13319	12797	13071	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Kineococcaceae	Kineococcus	Kineococcus	unclassified			
37566	10388	12054	8459	8433	13224	13933	13287	13657	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Kineococcaceae	Unclassified	Unclassified				
37920	8948	10213	6484	7663	11824	12986	11686	12140	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Kineococcaceae	Unclassified	Unclassified				
38083	10556	10658	8842	8046	12004	12112	11662	12024	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Kineococcaceae	Unclassified	Unclassified				
41978	11147	11454	11037	10367	12586	13243	12935	12764	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Agreia	Agreia	unclassified			
42208	8789	9061	7040	7484	11580	12964	11811	12820	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Agreia	Agreia	unclassified			
41369	8667	8586	6478	7879	11399	12796	11423	12293	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Agrococcus	Agrococcus jenensis		
38524	10551	11242	10241	8977	12347	13162	12749	12606	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Agromyces	Agromyces	unclassified	
38721	9073	10058	8002	7541	11395	12670	11983	12204	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Agromyces	Agromyces	unclassified	
38848	9779	10262	7193	9396	13184	13592	12800	13230	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Agromyces	Agromyces	unclassified	
39094	8894	8077	6268	7720	10024	11718	11042	10768	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Agromyces	Agromyces	unclassified	
39225	10300	9575	8450	8610	12083	12891	12125	12445	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Agromyces	Agromyces	unclassified	
39242	8354	9501	6501	6813	10494	12308	11683	11955	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Agromyces	Agromyces	unclassified	
39259	8384	9764	6647	7405	11587	13104	12417	12938	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Agromyces	Agromyces	unclassified	
39733	11474	12151	11274	9749	13069	13724	13228	13674	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Agromyces	Agromyces	unclassified	
40043	8107	6640	5701	6640	11627	12621	12579	12879	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Agromyces	Agromyces	unclassified	
40667	9216	9229	6992	7355	11637	12823	12299	12687	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Agromyces	Agromyces	unclassified	
41239	9723	9832	5881	7600	11833	13271	11974	12229	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Leptobacter	Leptobacter	unclassified	
41260	9732	9770	6478	7458	11572	13104	12146	12669	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Leptobacter	Leptobacter	unclassified	
41238	9072	7399	7231	7373	12737	12899	11906	12110	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Leptobacter	Leptobacter	unclassified	
41564	9384	10408	9250	8121	11680	12913	12111	12931	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Microbacterium	Microbacterium aurum	Microbacterium aurum	
42210	9507	11622	10662	8746	12848	12812	12521	12772	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Microbacterium	Microbacterium	Microbacterium	
41633	8785	8817	7115	7017	10553	11808	11306	11022	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Microbacterium	Microbacterium	Microbacterium	
41631	9150	9222	6439	8770	12356	13097	12624	12544	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Microbacterium	Microbacterium	Microbacterium	
41275	9006	8744	7735	7729	11920	12809	12045	12624	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Microbacterium	Microbacterium	Microbacterium	
41693	9459	6839	6752	7514	11961	12639	11861	12045	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Microbacterium	Microbacterium	Microbacterium	
41469	8807	7442	6535	7747	11886	12984	11922	12045	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Microbacterium	Microbacterium	Microbacterium	
41517	9716	9580	8364	9254	12905	13288	12818	12678	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Microbacterium	Microbacterium	Microbacterium	
41535	9012	8633	6657	7984	12324	13039	12194	12584	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Microbacterium	Microbacterium	Microbacterium	
41460	8844	8435	6398	8440	12101	12938	11969	12261	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Microbacterium	Microbacterium	Microbacterium	
41662	9339	8538	6629	8165	11863	12048	11489	11365	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Microbacterium	Microbacterium	Microbacterium	
41674	9086	8147	6746	7236	11886	12651	12131	12011	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Microbacterium	Microbacterium	Microbacterium	
41657	9056	8071	7465	7050	11879	12309	11778	11892	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Microbacterium	Microbacterium	Microbacterium	
41712	8902	8295	6654	7465	7317	12109	12013	12207	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Microbacterium	Microbacterium	Microbacterium	
41721	9823	9742	7373	9073	12643	13267	12676	12864	Bacteria	Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	Microbacterium	Microbacterium	Microbacterium	Microbacterium	
41749	7145	6418	7722	11593															

Table S6 (part E): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

OTU	Sample ID (PMA)				Sample ID				taxonomic classification of representative rOTU cluster										
	UR_PMA	CO_PMA	CR8_PMA	CR5_PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species				
41444	8522	9025	6893	7671	11110	11725	11325	11303	Bacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	unclassified	Microbacteriaceae	Microbacter	Microbacter	Microbacter	Microbacter	Microbacter
41480	9200	9709	7343	8057	11209	12687	11590	11955	Bacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	unclassified	Microbacteriaceae	Microbacter	Microbacter	Microbacter	Microbacter	Microbacter
41730	8591	1035	6117	7304	11087	12500	11327	11791	Bacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	unclassified	Microbacteriaceae	Microbacter	Microbacter	Microbacter	Microbacter	Microbacter
41779	9049	9198	6777	7067	10464	12176	10693	11016	Bacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	unclassified	Microbacteriaceae	Microbacter	Microbacter	Microbacter	Microbacter	Microbacter
41868	11588	12025	12185	11007	12493	12853	12551	12981	Bacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	unclassified	Microbacteriaceae	Microbacter	Microbacter	Microbacter	Microbacter	Microbacter
41925	8606	9455	6400	7235	11196	12961	11878	12129	Bacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	unclassified	Microbacteriaceae	Microbacter	Microbacter	Microbacter	Microbacter	Microbacter
41931	7770	8337	6202	6566	10221	13177	10714	10671	Bacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	unclassified	Microbacteriaceae	Microbacter	Microbacter	Microbacter	Microbacter	Microbacter
42258	8842	7756	7797	7797	11300	2512	11757	11849	Bacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	unclassified	Microbacteriaceae	Microbacter	Microbacter	Microbacter	Microbacter	Microbacter
40520	9154	7045	6152	7085	11493	12285	11932	12006	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter agilis	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40512	10253	9786	6218	6218	11922	12855	12150	12479	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40572	10311	9804	6421	8862	12218	12583	12561	12901	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40575	8750	9000	6501	7603	11924	13036	12861	13078	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40580	9628	10700	7000	7000	11748	12848	12768	12849	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40589	9779	10699	6601	7809	12003	12662	12454	12525	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40606	8530	7937	6264	7114	21564	13046	11570	12270	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40620	11555	11268	11219	10530	12993	13279	12860	13331	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40626	10694	11266	6864	8233	13714	13897	13004	14075	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40624	10322	8454	6517	7567	12239	13167	12203	13054	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40634	7801	10224	6663	7460	20946	12053	11182	11540	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40645	10155	9668	7113	8483	13269	13658	13239	13293	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40652	10158	9653	6866	7885	12473	12919	12869	12823	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40673	9762	9809	6965	7371	13128	13196	13204	13553	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40694	9518	8906	6968	7500	12020	12346	12237	13035	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40737	8651	10030	6344	7526	12119	12800	12232	12401	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40740	9108	9666	6868	8709	12335	13154	12436	13119	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40758	9819	11132	7732	8129	12640	13445	12899	12859	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40782	9164	7550	8362	12194	12976	11558	12126	12364	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40794	11991	12618	6093	8908	14062	14234	14248	14376	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40813	9231	7824	6361	7007	11215	12119	12134	11565	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40815	9449	9669	6751	7770	11982	12577	12120	12432	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40816	8465	9048	7276	7465	11532	11994	11786	12230	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40825	8733	8754	6698	7430	12119	12800	12239	12401	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40827	9300	8367	7679	802	11882	12109	11713	12620	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40845	8852	9393	6198	7864	11923	13035	11922	12708	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40847	9982	7069	6517	7651	11083	12662	11271	12833	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40848	9874	9278	6137	8768	11219	12466	11654	12466	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40848	9985	10443	8602	9456	12620	13223	12326	12444	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40849	8812	9929	6045	7012	12278	13011	12214	12244	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40853	9264	8989	7248	7615	11475	12523	11724	12034	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40852	9969	9619	7415	8495	12956	13181	12929	13124	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40852	9749	8819	6463	8709	12044	12893	11989	12516	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40856	9463	8133	6133	8521	12059	12538	12074	12725	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40857	9032	9564	8151	8730	11765	13477	12739	12957	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40860	9488	9674	6747	7681	12876	13130	12868	13139	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40862	10045	9661	6895	7775	12262	12776	12703	12684	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40863	9175	9750	7963	8147	12493	12960	12466	12828	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40866	10960	10665	10637	10637	12867	13096	12607	12674	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40876	8841	9591	7176	7886	12598	12956	12688	13104	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40875	9113	9421	7453	8767	12479	13121	11935	12361	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40876	8136	10566	10555	8303	12844	13269	12794	13194	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40898	11361	12148	11295	8835	13027	13401	13189	13561	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40919	10307	10017	9773	9660	12176	12679	12271	12571	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40930	9382	9088	6495	7165	10456	12048	10800	11748	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40945	9603	10264	7190	7216	11669	13162	12431	12227	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
40949	9093	9736	7749	8204	12333	12817	12542	12942	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
41050	9520	6501	6533	7286	12760	13224	12676	13240	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
41058	9796	9129	6533	7286	12760	13224	12676	13240	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
41070	9793	9129	6533	7286	12760	13224	12676	13240	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
41085	11056	11113	10223	8810	12173	13477	13137	13145	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
41093	10857	10656	6223	8064	13331	13474	13380	13423	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter	Arthrobacter
41045	9458	10432	7995	7341	12														

Table S6 (part F): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

	Sample ID (PMA)						Sample ID						taxonomic classification of representative rOTU cluster									
OTU	UR_PMA	CO_PMA	CR8_PMA	CR5_PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species							
404636	9781	9337	6308	7149	12343	13343	13747	13442	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40476	9578	9811	8909	9227	12173	12786	12131	12622	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40479	9755	9483	6490	7122	13164	13337	13822	13404	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40484	9626	9895	7951	9074	12573	13006	12738	12838	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40490	9429	10696	8019	9187	11630	12449	12489	12103	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40510	9488	9637	7590	8868	12857	13234	13262	12884	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40574	9213	8236	6469	702	12647	12804	1312	12919	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40575	9474	9322	6300	692	13045	13123	13270	12704	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40621	9530	8332	6121	6702	12777	12827	13596	13019	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40640	8781	7382	6181	6710	12691	12805	13578	12879	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40696	8768	8001	6273	6756	12558	12743	12520	12616	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40851	8984	8894	6561	7526	12586	12748	12576	12624	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40718	9746	9559	6415	7256	12546	12846	12578	12434	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40740	9218	9009	8086	8977	12024	12356	12569	12063	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40753	8892	10574	7083	7460	12123	12860	12678	12580	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40757	9826	9432	6410	7183	12913	13009	13676	13147	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40834	9139	9389	8072	8070	9270	12200	12693	13167	12225	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus							
40861	8939	8788	6526	8247	12562	12831	13457	12632	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40884	8839	7960	6096	6666	12720	12838	12905	12909	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40913	9152	9700	8079	8979	12691	13106	13171	12746	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40950	9534	9206	7401	8762	12459	12685	13391	12642	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
40992	9218	8994	6555	7008	12782	13047	13576	12526	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
41054	9766	9632	6468	7153	12362	13427	13896	12894	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
41061	9572	9359	6623	7194	13316	13512	13666	13432	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	Micrococcus luteus								
42026	8160	9030	6422	7080	11933	12477	12674	12014	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
42076	8948	8642	6507	8221	12403	12750	13013	12696	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
42073	9712	11099	9181	8113	13406	13617	13594	13453	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
42079	9476	9823	7663	8725	12962	13177	13396	12975	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
40819	9125	9696	8121	9187	12556	12770	13207	12454	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
40889	8764	8080	6214	6661	12775	12951	13682	12903	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
40943	9709	10532	6290	8223	13117	13584	13404	13091	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
41105	8388	8113	6585	7402	11519	12675	13846	12145	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
41110	9007	9763	6988	7846	11095	12431	13589	12882	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
41119	9359	8414	6572	7481	11263	12686	13182	12446	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
41237	8800	8365	7345	8174	10581	11799	11008	11907	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
41371	8719	9867	6772	8061	10561	12406	13166	12699	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
41489	9331	6877	6762	6802	11033	12248	11918	11768	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
41636	8337	7819	6601	7674	11127	12486	11677	11839	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
41502	9263	9387	6943	7647	12528	13109	12580	12737	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
42075	9533	9410	7056	8740	12788	12617	13172	12803	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
42425	8899	9454	7447	7847	10677	12052	1096	11491	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
42104	10162	9729	8895	8861	12895	13822	12768	13300	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
42153	10250	10380	7394	8883	11418	12749	11699	12238	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
42172	9675	9207	8022	8651	11520	12563	11777	12466	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
42188	9818	8642	6842	7541	11868	13036	12111	12720	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
42203	9660	9229	7083	7546	12549	12878	12589	12489	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
42207	9789	10007	6854	8169	11509	12875	12000	12247	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
42264	10152	10929	8076	9263	12283	13713	12684	13007	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
42557	9079	9175	6066	7708	12113	13053	13204	12657	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
37463	9502	9361	7599	8423	11339	12116	12050	12023	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
37630	9429	9781	8555	8664	12170	12109	11603	11712	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
37688	9058	8232	7290	7560	12364	12943	12548	13196	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
37726	10537	11407	9363	8985	12769	14209	12741	14145	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
37737	9681	11300	8224	9065	12657	13233	12473	12680	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
37907	8318	7851	7145	7567	12118	12241	13035	12044	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
37943	9692	10781	9144	9224	11268	12861	12518	12373	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
37955	8881	7882	7245	7877	10345	11886	11592	11367	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
37984	8856	8790	6544	7929	11025	12725	11849	11860	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
37996	8882	8821	6804	7409	12376	12980	12604	12979	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
38001	10679	11219	8835	7975	10222	12112	11565	11225	Bacteria	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	unclassified								
38115	8629	7185	6434	6822	11369	12604	11838	12557	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
38168	9206	9733	6790	8050	12346	12878	13445	12845	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
38238	8625	8194	7830	7788	10549	12728	11723	11612	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
38248	9164	10642	8137	8811	11271	12886	11472	11539	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
38371	9377	9973	7953	7601	11776	12267	12120	12203	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
38427	9034	9151	7177	8065	11502	12968	11951	12063	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
38438	8638	8502	7120	7315	11473	12416	12008	12161	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
38444	8501	8048	8048	7127	7597	10571	11810	12139	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
38446	8257	8035	6590	7320	11803	13046	12607	12889	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
38494	8649	8768	7814	7402	11432	12528	11867	12116	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
38593	8530	8116	6641	7339	11053	12616	12030	12020	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
38760	8595	8711	6711	7425	10995	12904	12409	12160	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
39241	9261	10008	6978	7158	12499	12924	12167	12693	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
39676	8654	8281	6289	7370	11957	12669	12533	12553	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
39684	9909	9428	6798	7821	12217	13192	12551	12463	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
39809	8526	9304	6539	7115	12091	13023	12549	12544	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
39869	9057	8887	8378	8636	11625	12868	11855	11709	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
39807	9904	9204	6632	7599	12733	13661	13050	12926	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
39719	9679	9940	7853	8269	12616	13211	12484	12786	Bacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	Nakamurellaceae	unclassified								
3977																						

Table S6 (part G): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

OTU	Sample ID (PMA)						Sample ID						taxonomic classification of representative rOTU cluster									
	UR_PMA	CO_PMA	CR8_PMA	CR5_PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species							
38628	9913	11619	6750	8026	12968	13477	13015	13179	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
38646	10161	9318	9762	9513	12145	13062	12174	12389	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
38679	975	9059	7123	7192	13172	13485	13148	13169	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
38746	9444	9180	5978	729	12364	1384	12455	12279	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
38820	9414	8673	6593	793	12255	1294	12392	12216	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
38858	9520	9342	6748	8126	12495	13215	12835	12367	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
38896	10174	9909	7434	7712	12884	1365	13148	13100	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
39027	10392	9655	7203	7155	13233	13770	13280	13571	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
39081	9745	10141	8025	7879	13175	13791	13196	13511	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
39446	10754	10822	7906	9571	12607	13143	12880	12907	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
39559	10071	9159	6938	7589	12121	1245	1258	13023	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
39600	9484	8621	6023	7599	12368	12615	12729	12974	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
40042	10462	9403	6591	7550	12075	13565	13118	13083	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
39968	9480	11339	6915	7458	12042	12773	10656	12086	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
38469	9681	10739	6721	7990	12265	13213	13011	13084	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
38810	10184	10773	9340	9822	12475	12941	12671	12605	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
39106	9631	9105	6793	8152	12445	1318	12436	12496	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
39243	9927	9994	6907	8022	12574	13955	12922	13244	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
39633	9570	10118	7628	8362	12496	13542	12877	13070	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
39636	9068	8410	6559	7667	11642	12198	11834	12071	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
40101	9413	10004	7171	7346	12081	1298	12285	12776	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
41103	8573	9039	6406	6764	11618	12139	11989	11809	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
41400	10049	10808	8606	9279	12714	13475	13091	12895	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
41531	9087	9552	6698	7865	12012	12790	13008	12190	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
41652	9256	9255	5486	6458	12063	12371	12615	12615	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
41733	9284	9641	8439	9265	11522	1207	11918	11412	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
42081	8906	8762	5994	6698	12117	12552	12304	12759	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
42218	8941	9367	6366	8001	11963	12532	12273	12134	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Nocardioides	Nocardioides	unclassified							
39321	9988	10070	6346	8305	11812	13029	12897	12017	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
38770	10809	9420	6839	7938	13104	1310	13076	13183	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40158	12788	13425	12666	11847	14303	14163	14307	14650	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40159	12404	12120	11340	13488	13493	13542	13918	13818	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40162	12064	12063	10715	11004	13426	14023	14033	14413	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40182	12025	11464	11030	11765	12421	13921	14202	14301	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40264	12899	13159	12310	12070	14181	14046	14135	14550	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40356	10219	9573	7085	9480	13612	13748	13672	13734	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40550	12003	11425	7825	10861	14147	13914	14142	14218	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40686	11577	9576	7628	10446	13627	13526	13691	13744	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40932	11045	10797	8088	10179	13399	13690	13599	14061	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
41006	10270	9046	6369	9476	13327	13286	13255	13460	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
41012	11996	12734	11791	11698	13899	13873	13877	14222	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40241	9232	9389	6766	8275	12496	12617	12710	13214	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40171	10224	9693	6275	8422	13663	13955	13868	13931	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40188	9317	8651	7016	7660	12145	12255	12579	12411	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40374	9545	6912	6912	7545	12196	12954	13188	13193	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40210	11448	9540	6311	10248	12464	13458	13292	13293	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40333	12504	13044	12245	12192	14104	14028	14141	13920	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40518	11115	11682	8463	9575	12428	12763	13413	13880	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40697	10908	10023	10003	10003	13106	12873	12073	13333	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40686	13048	13214	12720	12283	14052	14162	14231	14295	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40742	9249	8733	7998	8214	12202	12309	12469	12770	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40766	10685	9940	8343	9202	13723	13554	13586	13986	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40852	10524	10231	10209	10135	12974	12974	12938	13445	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40912	10331	9231	5749	8550	12960	12639	13152	13282	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
41069	10422	10165	6116	9055	13109	13210	13543	13588	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
41085	12617	12721	12625	12161	13760	13843	13844	13814	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Propionibacteriales	Propionibacteriales	unclassified							
40352	9349	10597	6524	7736	10688	13425	13943	10553	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Tessaracoccus	Tessaracoccus	unclassified							
37611	9421	9559	11771	7612	12188	12898	12146	12418	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Pseudonocardiaceae	Pseudonocardiaceae	unclassified							
37768	10122	12025	8382	8795	12531	13453	12698	12908	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Pseudonocardiaceae	Pseudonocardiaceae	unclassified							
37841	9047	8721	7392	7742	12872	12228	11991	12737	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Pseudonocardiaceae	Pseudonocardiaceae	unclassified							
38904	9668	9463	8875	9397	10994	12626	11081	12297	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Pseudonocardiaceae	Pseudonocardiaceae	unclassified							
39401	10947	10779	7938	8112	12005	13530	13166	13622	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Pseudonocardiaceae	Pseudonocardiaceae	unclassified							
39424	9607	9481	6759	6942	12982	12675	12155	12215	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Streptomyces	Streptomyces	unclassified							
39548	8674	8675	7058	7655	12374	12459	12699	12701	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Streptomyces	Streptomyces	unclassified							
39549	8675	8676	7058	7655	12374	12459	12699	12701	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Streptomyces	Streptomyces	unclassified							
39649	8676	8677	8243	8419	12635	12805	11953	12193	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Streptomyces	Streptomyces	unclassified							
39649	8676	8677	8424	8533	12305	12439	12540	14089	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Streptomyces	Streptomyces	unclassified							
39650	8676	8678	8558	6405	12119	12626	12289	12869	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Streptomyces	Streptomyces	unclassified							
39746	9505	10457	6845	6763	11619	1252	11899	12692	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Streptomyces	Streptomyces	unclassified							
39802	9140	8942	5798	5942	12982	12693	12071	12190	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Streptomyces	Streptomyces	unclassified							
39819	8480	9147	7040	6975	10516	1277	11090	11212	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Streptomyces	Streptomyces	unclassified							
39909	9195	9938	6575	7346	11904	13216	12302	14122	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Streptomyces	Streptomyces	unclassified							
40049	8813	8556	7234	7534	11176	1179	11387	11658	Bacteria	Actinobacteria	Actinomycetales	Nocardioidaceae	Streptomyces	Streptomyces	unclassified							
40126	8911	8906	6710	7626	12413	12639	12587	12889	Bacteria	Actinobacteria	Actinomycetales											

Table S6 (part H): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

Sample ID (PMA)										Sample ID										taxonomic classification of representative rOTU cluster									
OTU	UR	PMA	CO	PA	CR8	PA	CR5	PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species										
38400	7766	6401	5801	6083	12151	12299	12237	13052	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	Actinomycetales	Tsukamurellaceae	Tsukamurella	Tsukamurella paumotabola													
50864	9408	10146	7557	7816	13325	13505	13107	13552	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	Coriobacteriales	Coriobacteriaceae	Adlercreutzia	unclassified													
50184	10741	9507	8853	8259	11907	12215	11705	12641	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	Coriobacteriales	Coriobacteriaceae	Collinsella	Collinsella aerofaciens													
50477	9766	8874	8069	7304	11147	12156	11523	12420	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	Coriobacteriales	Coriobacteriaceae	Collinsella	Collinsella aerofaciens													
50847	9007	9229	8445	8007	10960	11787	11136	12097	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	Coriobacteriales	Coriobacteriaceae	Collinsella	Collinsella aerofaciens													
41425	10920	11487	10788	9829	12029	12543	12061	1206	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	koli13	unclassified	sfb	unclassified													
41092	10112	10442	10099	9686	11260	12070	11420	11628	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	koli13	unclassified	sfb	unclassified													
41886	9240	9267	7841	7296	12247	12640	11908	12388	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	koli13	unclassified	sfb	unclassified													
42189	9305	9847	8006	8240	11854	12147	11602	11979	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	koli13	unclassified	sfb	unclassified													
41114	8838	9233	7029	7293	11953	12886	12241	12443	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	MC47	unclassified	sfa	unclassified													
41227	8970	9991	7456	7529	12439	13035	12478	12928	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	MC47	unclassified	sfa	unclassified													
41235	10936	10552	10177	12862	13329	12745	13021	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	MC47	unclassified	sfa	unclassified														
41285	9952	10621	9574	9054	11078	12878	11365	13001	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	MC47	unclassified	sfa	unclassified													
41301	9515	10031	8701	8865	11094	12446	11446	12484	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	MC47	unclassified	sfa	unclassified													
41539	11191	10327	8311	8279	11747	12642	11989	12484	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	MC47	unclassified	sfa	unclassified													
41755	8391	8864	6563	6107	11725	12192	11753	12094	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	MC47	unclassified	sfa	unclassified													
41500	10603	10947	9864	9025	13003	13374	13358	1348	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	Solirubrobacteriales	Coneibacteriaceae	unclassified	unclassified													
41631	9060	9417	7208	7474	12554	13200	12658	12681	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	Solirubrobacteriales	Coneibacteriaceae	unclassified	unclassified													
41211	9550	7716	6875	6715	12162	13007	12691	12597	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	Solirubrobacteriales	Coneibacteriaceae	unclassified	unclassified													
41246	8427	9818	7016	7048	11236	12483	11423	12066	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	Solirubrobacteriales	Coneibacteriaceae	unclassified	unclassified													
42253	8670	7006	6738	7023	11568	12211	11567	11394	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	Solirubrobacteriales	Solirubrobacteriaceae	unclassified	unclassified													
42026	8069	8158	7708	7342	11432	13229	11742	12525	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	Solirubrobacteriales	Solirubrobacteriaceae	unclassified	unclassified													
42095	10781	11172	10943	1059	12139	12648	12180	12783	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	Solirubrobacteriales	Solirubrobacteriaceae	unclassified	unclassified													
42150	9583	6819	6700	7101	11026	11713	10916	10973	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	Solirubrobacteriales	Solirubrobacteriaceae	unclassified	unclassified													
58484	9523	7918	8442	7641	11669	12479	11910	12626	Bacteria	Actinobacteria	Actinobacteria	Actinobacteria	unclassified	unclassified	sfb	unclassified													
55188	8817	9548	7947	7132	12320	13217	12213	12754	Bacteria	Aquificutes	Aquificutes	Aquificutes	Desulfurobacteriales	Desulfurobacteriaceae	unclassified	unclassified													
55774	8406	8735	7790	6977	11443	12582	11842	12174	Bacteria	Aquificutes	Aquificutes	Aquificutes	Desulfurobacteriales	Desulfurobacteriaceae	unclassified	unclassified													
66919	8137	6688	6368	6276	9659	12656	9541	9579	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Marinilabaceae	unclassified	unclassified														
66873	9760	9051	6986	7344	12330	12873	12186	12789	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Porphyromonadaceae	unclassified	unclassified														
67028	8363	7835	7169	7333	11109	11844	11625	11775	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Prevotellaceae	Prevotella	unclassified	unclassified													
67542	8594	7666	6780	7213	10897	11814	11311	11698	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Prevotellaceae	Prevotella	unclassified	unclassified													
67664	8868	7350	6704	7144	10011	11067	11728	12140	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Prevotellaceae	Prevotella	unclassified	unclassified													
68290	9160	8742	7642	8464	11414	12193	11664	12643	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Rikenellaceae	unclassified	unclassified														
69046	8037	8486	6569	7059	10427	12758	11626	11594	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Rikenellaceae	unclassified	unclassified														
69770	11334	11986	10420	10583	13781	13752	13624	13959	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Rikenellaceae	unclassified	unclassified														
69931	11247	11670	11519	10949	12974	13123	12608	12920	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Rikenellaceae	unclassified	unclassified														
65875	9249	11340	7785	6951	12748	13601	12795	12717	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Corynebacteriaceae	unclassified	unclassified													
63161	8658	8581	7045	7394	11766	12167	11512	11921	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Chryseobacteriaceae	unclassified	unclassified													
63187	8071	6063	5886	6369	11609	11933	11630	11946	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Chryseobacteriaceae	unclassified	unclassified													
63286	9778	7876	5980	6306	13012	12480	12329	12706	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Chryseobacteriaceae	unclassified	unclassified													
63800	7821	6863	6111	6708	11404	12058	11502	12035	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Chryseobacteriaceae	unclassified	unclassified													
63573	10501	10241	9158	8813	12970	13008	13048	13245	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Chryseobacteriaceae	unclassified	unclassified													
63751	8225	7823	6152	6806	12149	11959	11057	11588	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Chryseobacteriaceae	unclassified	unclassified													
63664	8887	7058	6219	6904	11954	12299	12260	12770	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Chryseobacteriaceae	unclassified	unclassified													
64220	9843	8905	8566	8268	12426	12309	12368	12776	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Chryseobacteriaceae	unclassified	unclassified													
64624	8575	8869	7755	7078	10894	11306	10971	11875	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Chryseobacteriaceae	unclassified	unclassified													
64654	10834	8258	7005	7065	11662	12200	11976	12016	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Chryseobacteriaceae	unclassified	unclassified													
64743	8520	8225	6594	6553	11625	12688	12209	12240	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Chryseobacteriaceae	unclassified	unclassified													
64982	8024	6577	6077	6434	11243	11549	11205	12444	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Chryseobacteriaceae	unclassified	unclassified													
65050	8187	7295	6683	7146	11895	12794	11932	12399	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Chryseobacteriaceae	unclassified	unclassified													
65435	9145	9215	7137	7611	12680	12207	12026	12055	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Chryseobacteriaceae	unclassified	unclassified													
65807	10328	10258	9348	8556	12038	12492	12224	12788	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Chryseobacteriaceae	unclassified	unclassified													
66605	8617	9444	8094	8044	8671	10701	12388	11492	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Flavobacteriaceum	unclassified	unclassified													
69192	7576	8005	6623	7268	9548	11894	10016	10639	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Flavobacteriaceum	unclassified	unclassified													
67715	7764	10441	6223	6866	11119	12539	12259	12625	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Flavobacteriaceum	unclassified	unclassified													
67093	10296	9786	9876	9217	13640	13493	13161	13445	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Flavobacteriaceum	unclassified	unclassified													
67382	8314	7488	6946	6747	12518	12587	11811	12779	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Flavobacteriaceum	unclassified	unclassified													
67336	10942	7499	7044	7930	9197	11434	11435	12571	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Flavobacteriaceum	unclassified	unclassified													
73491	9683	10277	8384	8306	11632	12634	12033	12616	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Flavobacteriaceum	unclassified	unclassified													
73871	8023	8355	7079	7853	12573	13146	12733	13219	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Flavobacteriales	Flavobacteriaceum	unclassified	unclassified													
56263	8686	8250	7570	7607	10791	12435	11402	11491	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Rhodothermataceae	Rhodothermataceae	unclassified	unclassified													
56900	12751	12827	12488	12483	14092	14107	14354	14287	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Rhodothermataceae	Rhodothermataceae	unclassified	unclassified													
57707	8478	8950	7141	7721	8839	12986	13282	12767	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Rhodothermataceae	Rhodothermataceae	unclassified	unclassified													
57655	8505	9003	7467	7451	11723	12255	10888	11022	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Rhodothermataceae	Rhodothermataceae	unclassified	unclassified													
66896	8144	7528	6553	6553	8937	12588	12208	11855	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Rhodothermataceae	Rhodothermataceae	unclassified	unclassified													
52905	9661	10620	10620	8937	10211	13213	13272	13384	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Rhodothermataceae	Rhodothermataceae	unclassified	unclassified													
52021	11061	10820	11463	10271	10791	12345	12267	12445	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Rhodothermataceae	Rhodothermataceae	unclassified	unclassified													
52085	8540	8849	6408	7517	11000	12486	11646	11813	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Rhodothermataceae	Rhodothermataceae	unclassified	unclassified													
56118	9528	10282	9770	8356	11568	12265	12337	11683	Bacteroidetes	Bacteroidia	Bacteroidia	Bacteroidia	Rhodothermataceae	Rhodothermataceae	unclassified	unclassified													
70099	9200	9949	7982	8407	11680	12674	11893	13844	Bacteroidetes	Cyanobacteria	Cyanobacteria	Cyanobacteria	Euglenozoa	unclassified	sfa	unclassified													
75661	9455	10001	7053	7519	12102	12559	12401	12874	Bacteroidetes	Cyanobacteria	Cyanobacteria	Cyanobacteria	Euglenozoa	unclassified	sfa	unclassified													
75644	7699	8531	7160	6815	11567	12807	11849	12611	Bacteroidetes	Cyanobacteria	Cyanobacteria	Cyanobacteria	Streptophyta	unclassified															

Table S6 (part I): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

	Sample ID (PMA)				Sample ID				taxonomic classification of representative rOTU cluster									
OTU	UR_PMA	CO_PMA	CR8_PMA	CR5_PMA	UR42	UR1109	CR8	CR5	kingdom	phylum	class	order	family	genus	species			
49516	8906	9900	8022	7842	1109	12019	12712	11806	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Bacillus acidcola		
49665	8733	10178	8433	7751	10909	11969	11806	11423	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Bacillus acidcola		
47307	8004	9457	7867	7551	11820	10738	9946	1035	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Bacillus amthrakis		
46520	10241	11797	10197	933	12617	12700	12077	11545	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Bacillus cytotoxicus		
45955	11345	12035	10981	10457	13083	12854	12856	12891	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Bacillus flexus		
42514	7897	9445	7830	759	11721	10723	10132	1035	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
42609	11096	11685	10906	10643	12178	12416	12324	12291	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
42672	7605	9280	6705	7390	11761	10934	9811	10453	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
42684	7740	9320	7774	7249	11546	10772	9887	10114	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
42748	7988	9161	7706	7384	11914	11000	10210	10411	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
42533	8850	10131	8600	7168	12585	12054	11909	12005	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
43361	7702	9176	7583	728	11661	10904	9984	10355	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
43461	8011	9251	7746	7542	11886	11095	10217	10995	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
43496	8169	10527	6671	7358	12036	11502	9843	10455	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
43571	8873	9094	8781	7459	12475	11525	11487	11485	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
43574	8374	10001	7711	7458	12488	11525	11487	11485	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
43575	7533	9156	6848	7259	11721	10772	9406	9941	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
43575	9013	10012	7548	7623	11959	11489	11133	11230	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
44669	7456	9126	6500	7265	11658	10748	9407	9849	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
43728	8908	10328	7011	8966	10985	11520	12007	11929	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48212	9111	13412	9514	8065	10653	13320	11001	10984	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
42815	11382	12204	11249	11111	12255	13776	12545	12612	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
42879	8162	13433	8897	8519	9293	13411	8950	9527	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48318	8646	12927	7910	7878	10370	12665	10531	10954	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48354	8196	13171	7228	6952	10622	13425	8081	9088	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
43883	8705	13471	8564	8741	9942	13694	9795	10468	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48423	8258	13208	8507	7952	10525	13454	10830	10925	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48440	9063	13247	8309	8966	10191	13463	10186	10610	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48487	8383	13191	8913	8049	10525	13147	10881	10726	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48536	8947	13611	9258	8949	10688	13405	10702	10764	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48581	8445	13364	8416	8192	9780	13218	10011	10298	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48645	8286	12513	8202	7066	10707	12807	11047	10994	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48660	8791	12788	7998	8166	11359	13387	11249	11437	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48662	8715	13373	8828	8941	9870	13409	9262	10237	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48675	10329	13193	10192	8862	12258	13573	12175	12148	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48690	7445	11855	7456	7245	10802	12416	10976	10960	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48691	8805	13474	8574	8108	10905	13091	11091	11711	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48710	8806	12931	6960	7614	10838	1286	10413	10612	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48776	12521	13023	12698	12542	13669	13401	13796	13661	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48784	8345	12851	7149	7492	10726	12797	10979	11219	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48805	8398	13152	9096	8165	11150	13006	11107	1157	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48819	8773	12987	7740	7557	11269	12711	11764	12036	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48821	8799	13435	8916	8659	10843	13514	11205	11264	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48825	10089	11817	9967	9268	10669	13188	12908	12704	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48851	9174	13156	8924	8954	10452	13155	10365	10737	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48861	8712	13016	8644	8540	10405	13096	9657	10318	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48896	7281	12691	7088	6913	10361	12804	9869	10013	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48975	9005	12973	8722	8703	10258	12969	10161	10268	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
48981	8354	12819	8437	7688	10813	12626	10872	11264	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49024	8854	13040	8863	8043	10509	13450	10369	10724	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49059	10091	13250	8863	8955	12871	13772	12758	13504	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49060	10091	13250	10416	9055	12871	13772	12758	13504	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49062	8326	13310	8713	7094	10261	13263	10708	10239	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49071	8854	12810	8437	7651	10213	12881	10872	11233	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49079	8384	13591	7360	7928	9612	13691	9601	10556	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49160	9202	13423	9423	9374	10305	13468	10324	10710	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49167	8777	13427	8415	7297	10188	13319	10435	10477	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49168	8604	13148	8205	7965	10740	12938	10932	11228	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49172	8904	13538	9037	8754	10032	13546	9585	10984	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49178	9224	13760	9514	9267	10509	13574	11042	10984	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49187	9145	13443	8890	8813	10522	13388	11049	11175	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49214	8360	13583	8792	8263	9768	13443	9540	9917	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49265	9765	13419	9296	8883	11563	13723	11754	11951	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49268	10423	12990	10516	10793	12073	13450	12009	12153	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49305	9345	12680	8842	8064	10239	12359	12874	12485	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49312	7713	9936	6969	7211	10567	11767	10233	10160	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49322	11839	12720	12183	11389	13662	13207	13446	12924	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49325	8766	13436	8684	8959	10259	12865	10296	10903	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49357	8713	13709	8408	8734	10469	13675	9685	10532	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49623	8471	13216	8510	7884	10341	12926	10309	10588	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49624	8924	13692	9441	9106	10662	13541	10329	10983	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49669	8437	13062	7178	7493	9777	13336	8775	9970	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49688	8518	12845	8084	7923	10530	12475	1094	1084	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49766	8823	12818	6954	7545	12023	13421	11683	11844	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49874	8424	12941	7522	7225	11043	12246	11567	11855	Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus	Unclassified		
49878	8423	12838	6870	6831	11833	11415	11544	11523	Bacteria	Firmicutes	Bacilli	B						

Table S6 (part J): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

OTU	UR_PMA	Sample ID (PMA)			Sample ID			taxonomic classification of representative rOTU cluster									
		CO_PMA	CR8_PMA	CR5_PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species		
50857	8088	9674	10503	7425	11118	11768	12428	11669	Bacteria	Firmicutes	Bacilli	Bacillales	Paenibacillaceae	Paenibacillus	unclassified		
50911	8437	10183	10084	6677	11728	12723	13621	12707	Bacteria	Firmicutes	Bacilli	Bacillales	Paenibacillaceae	Paenibacillus	unclassified		
42472	8879	7571	6431	6580	11052	11955	11897	12221	Bacteria	Firmicutes	Bacilli	Bacillales	Planococcaceae	Bacillus	Bacillus psychroendurans		
42470	9166	9281	8026	7400	11504	11148	12687	11677	Bacteria	Firmicutes	Bacilli	Bacillales	Planococcaceae	Solbacillus	unclassified		
43752	10097	11541	10399	30128	12269	12234	12040	12456	Bacteria	Firmicutes	Bacilli	Bacillales	Planococcaceae	Solbacillus	unclassified		
43416	9026	9562	8229	7723	11912	12752	12168	12642	Bacteria	Firmicutes	Bacilli	Bacillales	Planococcaceae	unclassified	unclassified		
43095	8793	9014	8620	6724	12526	13056	12949	12949	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Jeotgalicoccus	unclassified		
43749	9145	10099	8631	7478	11504	11148	12687	11677	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Jeotgalicoccus	unclassified		
43748	8891	9293	7923	9275	11549	11039	12730	12273	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Jeotgalicoccus	unclassified		
43021	9265	8389	7486	7545	11566	10509	12230	12235	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus arlettae		
43914	10372	10362	7275	7268	13305	12867	13661	13629	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
43974	10147	10370	7400	6920	13220	12755	13232	13455	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
43953	11404	11148	10370	10423	12879	12550	13416	13274	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44025	10840	10310	6609	7064	13447	12674	12711	13419	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44067	10588	11031	8649	8908	13280	12482	13407	13630	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44138	10646	10196	6991	7443	13575	13039	13099	13831	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44612	10683	10622	7546	7370	13463	12962	13869	13683	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44613	11261	10748	6955	7719	13732	13096	13020	13807	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44189	11554	12280	10526	10004	13922	13346	14041	14186	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44215	10511	10366	9158	8941	12734	12904	12899	12949	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44217	11089	10323	7257	7784	13637	12938	13848	13672	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44226	9957	11170	9787	7641	13401	12638	13303	13093	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44243	10668	11342	9082	8633	13253	13011	13372	13265	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44244	10023	11713	9255	7914	13477	13260	13717	13843	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44260	11251	7839	8839	13847	13344	13941	13814	13814	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44293	10981	10582	7091	7969	13402	12891	13740	13553	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44372	9694	10511	9506	8424	12224	12559	12685	12106	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44405	10211	10018	11137	8054	12618	12445	13493	13231	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44417	11061	10486	7196	7804	13546	13032	13876	13720	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44450	10691	10004	7573	7415	13368	12769	13714	13488	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44451	10277	9807	7500	753	13341	12860	13861	13274	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44516	10874	10701	7016	7469	13520	12793	13890	13710	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44562	10725	10685	6005	7268	13588	13416	14206	14524	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44568	10252	10231	6683	7212	12819	12277	13478	13147	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44571	11253	10444	7118	776	13576	12904	13819	13603	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44607	10526	10214	6758	7268	13407	12667	13656	13384	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44611	10663	10401	6820	763	13644	12911	13825	13609	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44612	10685	9964	7377	8800	13605	13407	1376	13325	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44657	11560	11320	7930	8646	13388	13378	13626	13388	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44682	10754	10322	6737	7372	13450	12682	13710	13416	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44684	10674	10270	6974	7508	13494	12851	13801	13653	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44686	10722	10817	7666	7412	13621	13030	13731	13731	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44718	10865	10301	7173	7813	13602	12774	13767	13602	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44752	10584	10211	7297	7645	13487	12852	13792	13870	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44759	10328	10455	6339	8138	12555	12311	13036	13245	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44819	10304	10341	8890	7092	12651	12759	13308	13245	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44826	10692	10468	67670	7444	13721	12670	13013	13650	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44886	9676	8843	7268	7326	13329	13082	13629	13615	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44913	9017	10231	8103	7410	12710	12210	13204	13204	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
44998	9990	10704	7906	7274	13277	12445	13268	13093	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
45034	10167	10819	8154	7773	13402	12934	13803	13650	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
45109	10532	10293	7666	7422	13411	12890	13288	13559	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
45128	10671	11107	8198	7634	13802	13213	13787	13875	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
45130	10784	10666	7079	7523	13482	12852	13776	13599	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
45137	10378	10199	8730	8730	13557	13017	13765	13126	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
45173	10722	10472	7730	879	12950	12761	13114	13126	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
45173	8551	8604	6763	6925	13893	12479	12958	12758	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
45176	10474	9811	6644	7584	13435	12795	13723	13506	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
45179	10213	11576	9523	7313	12036	12346	12676	12956	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
45425	10668	10444	6866	7672	7927	13171	12711	13514	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
45445	10525	10350	7639	7404	13311	12723	13293	13431	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
45462	10585	10047	6969	6973	13673	13481	13861	13624	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
45756	10745	10886	8886	8550	13384	12756	13220	13499	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
45757	10474	9811	6644	6221	13265	12650	13091	13499	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
45792	9315	6346	6549	6539	12939	12820	13185	12653	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
46095	10274	12167	9059	7508	13239	13310	13637	13269	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
46119	11462	10935	9055	9055	13851	13207	13652	13279	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
46732	10704	10610	7507	7439	13607	12868	13079	13096	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
46869	10729	10717	7590	7351	13607	13097	13065	13266	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
46878	10838	10411	6714	7238	13627	12888	13466	13096	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
46878	12245	12121	11653	10672	13531	12226	13218	13689	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
47093	10923	11528	10092	973	13535	13556	13752	13752	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus epidermidis		
48027	11112	10602	6849	7573	13762	12973	13015	13681	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus haemolyticus		
48075	10360	11389	10456	8													

Table S6 (part K): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

Sample ID (PMA)										Sample ID										taxonomic classification of representative rOTU cluster	
OTU	UR_PMA	CO_PMA	CR8_PMA	CR5_PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species						
48089	10324	9310	6625	7794	12640	12252	13370	13220	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus haemolyticus						
46119	9215	8571	6068	5906	12656	11585	13485	13290	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus pettenkoferi						
47000	10274	12028	9288	8388	11337	11548	12216	11644	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus suri						
47738	9190	10589	7818	7773	11346	10982	11825	10672	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	Staphylococcus suri						
45900	10197	9962	7430	6962	12326	12283	13739	13495	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
45974	9351	10308	8256	7419	12575	12204	13143	12633	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46013	8257	10195	6902	6489	12913	12741	13805	12929	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46074	10422	9965	6705	7790	12935	12421	13404	13241	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46881	10507	10445	7081	7441	13216	12469	13588	13329	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46157	10259	11796	7584	8219	12638	12726	13384	13170	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46167	10665	10151	6736	7269	12495	12835	13414	13627	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46578	9849	10376	6563	7003	12595	12421	13281	13280	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46517	10763	6249	7053	6395	12597	12498	13262	13280	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46238	10289	6700	7432	13023	12491	13553	13212	12884	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46259	9331	11253	7804	8179	12884	11986	12216	12316	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46278	10212	10898	8717	8075	12841	12831	13552	13220	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46329	11482	12001	10844	10844	13420	13382	13387	13443	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46342	9955	9796	6675	6580	12765	12407	13341	12906	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46361	10411	9499	6505	7584	12882	12535	13272	13221	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46362	10051	8838	6676	7083	12717	12306	13104	12862	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46367	10552	10282	7360	7747	13335	12719	13727	13491	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46420	12231	12849	11812	11133	14555	14210	14283	14534	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46463	10901	10591	7916	7831	13140	13109	13740	13579	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46464	10749	10729	7141	8438	13480	12885	13817	13691	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46484	9181	8771	8381	7774	11716	11975	12156	11957	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46527	10807	11499	6656	7476	13787	13055	14153	14063	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46532	10366	10110	6923	7179	13451	12880	13927	13722	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46539	9955	9501	6936	6626	12653	12026	13134	12580	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46548	8434	8051	6450	6795	11291	10608	11994	12700	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46608	10898	10885	7150	7389	13531	12798	13833	13660	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46621	10857	10382	7064	7567	13398	12807	13711	13518	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46645	9616	10454	7293	6768	12884	12445	13176	12908	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46661	9552	8662	8248	12546	12731	13044	12840	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified							
46665	8812	8444	6794	7256	1162	11107	12175	11949	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46668	8546	12323	6327	6753	11719	12503	12132	11896	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46720	10113	9451	7044	7504	13403	12455	13713	13269	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46733	10233	9766	8731	7620	13673	13460	14091	13849	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46738	9210	8471	6446	7290	13169	11660	12751	12586	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46766	10445	10683	6905	6983	12832	12562	13567	13424	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46793	12167	12314	11671	11433	13759	14154	14225	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified							
46809	10427	10435	8810	8846	13532	12884	13550	13230	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46828	9405	9390	6311	7095	12327	11749	13033	12515	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46891	10519	10519	6790	7431	11553	13252	13944	13753	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46894	9362	9407	6626	6671	12426	11457	12714	12891	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46905	9848	10048	7040	7252	12294	12085	13040	12679	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46937	9360	7108	7256	7256	12294	12085	13040	12679	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46947	10522	10522	6963	7315	12358	12246	13450	13260	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46953	10519	10103	7203	7504	12342	12030	13507	13260	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
46981	10141	8204	8205	8205	12324	12048	13452	13264	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
47019	10352	10722	9685	9685	13613	12309	13290	12796	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
47101	8836	9637	5727	6665	11527	10446	12571	13167	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
47114	11301	10342	8747	8989	13074	12962	13416	13206	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
47129	10578	10182	6900	7201	13355	12689	13741	13259	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
47135	10052	6817	7077	7277	11996	13419	13638	13268	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
47152	10533	10822	6968	7089	13351	12680	13632	13477	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
47175	10552	10471	6525	7057	12373	12975	13812	13644	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
47185	10790	10505	7273	7556	13264	12604	13636	13431	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
47187	9893	9994	6979	7274	12371	12040	12921	12841	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
47188	11963	10326	8023	8116	12366	12036	13127	13025	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
47243	10456	10577	9864	8542	12879	12778	13239	12827	Bacteria	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	undclassified						
47262	10846	11277	9669	9560	12723	12727	12982	12669	Bacteria	Firmicutes	Bacilli	Bacillales	Gemmellaceae	Gemmella	undclassified						
47264	8092	7877	6842	6808	11300	12455	11996	13307	Bacteria	Firmicutes	Bacilli	Bacillales	Lactobacillales	Aerococcaceae	undclassified						
47270	11754	12364	11369	11402	12955	13050	12811	12997	Bacteria	Firmicutes	Bacilli	Bacillales	Lactobacillales	Carnobacteriaceae	Carnobacterium divergens						
47407	9404	9794	8877	8651	11768	11561	11595	12222	Bacteria	Firmicutes	Bacilli	Bacillales	Lactobacillales	Carnobacteriaceae	undclassified						
47420	9464	10002	8611	7749	11683	11561	11595	12222	Bacteria	Firmicutes	Bacilli	Bacillales	Lactobacillales	Carnobacteriaceae	undclassified						
47511	13757	14389	13968	12745	14406	14234	14209	14537	Bacteria	Firmicutes	Bacilli	Bacillales	Lactobacillales	Enterococcaceae	Enterococcus	undclassified					
47616	9186	10226	7351	6697	12207	12531	12179	12046	Bacteria	Firmicutes	Bacilli	Bacillales	Lactobacillales	Enterococcaceae	Enterococcus	undclassified					

Table S6 (part L): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

Sample ID (PMA)										Sample ID										taxonomic classification of representative rOTU cluster											
OTU	UR	PMA	CR8 PMA	CR5 PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species	OTU	UR	PMA	CR8 PMA	CR5 PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species
71936	10710	10770	10561	7050	11780	10008	10273	10227	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	71936	10710	10770	10561	7050	11780	10008	10273	10227	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
71954	8930	8539	7930	7793	12580	10407	10447	11179	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	71954	8930	8539	7930	7793	12580	10407	10447	11179	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
71968	9146	8140	7826	7756	11613	10212	10049	10304	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	71968	9146	8140	7826	7756	11613	10212	10049	10304	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72006	9184	9332	7938	8937	11880	11571	11466	11728	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72006	9184	9332	7938	8937	11880	11571	11466	11728	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72042	9314	7329	7131	7267	12984	11645	11885	11511	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72042	9314	7329	7131	7267	12984	11645	11885	11511	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72132	10368	10721	9978	9446	12935	13153	12818	13885	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72132	10368	10721	9978	9446	12935	13153	12818	13885	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72161	9512	7373	7236	7323	13034	11624	11460	11540	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72161	9512	7373	7236	7323	13034	11624	11460	11540	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72197	8922	8337	7898	7324	12381	11758	12573	12034	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72197	8922	8337	7898	7324	12381	11758	12573	12034	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72201	9615	9272	9063	8059	12451	12451	12454	12456	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72201	9615	9272	9063	8059	12451	12451	12454	12456	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72250	8781	8251	8218	8573	12549	12549	12589	12561	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72250	8781	8251	8218	8573	12549	12549	12589	12561	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72259	9344	7413	7028	8524	12569	11999	12270	12974	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72259	9344	7413	7028	8524	12569	11999	12270	12974	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72261	8233	7529	6133	6984	11513	11807	11639	11693	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72261	8233	7529	6133	6984	11513	11807	11639	11693	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72279	8229	8010	7202	6034	10644	11189	12271	12243	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72279	8229	8010	7202	6034	10644	11189	12271	12243	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72281	11486	11815	13111	10443	12569	12771	13031	12964	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72281	11486	11815	13111	10443	12569	12771	13031	12964	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72289	11840	12270	13724	10463	13360	13416	13223	13039	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72289	11840	12270	13724	10463	13360	13416	13223	13039	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72855	8919	6966	6520	7062	12698	11262	11050	11030	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72855	8919	6966	6520	7062	12698	11262	11050	11030	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72884	8927	10092	6967	7720	11837	12140	12692	12476	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72884	8927	10092	6967	7720	11837	12140	12692	12476	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72916	8353	7921	7291	6823	12524	12018	12301	12021	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72916	8353	7921	7291	6823	12524	12018	12301	12021	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72963	9114	7973	7467	6832	12444	12468	12558	12199	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72963	9114	7973	7467	6832	12444	12468	12558	12199	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72971	9223	8327	7191	6865	12431	12255	12106	11974	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72971	9223	8327	7191	6865	12431	12255	12106	11974	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72417	9292	8486	7549	6959	12700	12578	12468	12104	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72417	9292	8486	7549	6959	12700	12578	12468	12104	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72420	10092	10819	9761	9573	12634	12860	12774	12964	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72420	10092	10819	9761	9573	12634	12860	12774	12964	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72453	8878	7763	7563	7001	12326	12197	12038	11943	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72453	8878	7763	7563	7001	12326	12197	12038	11943	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
72610	8877	8016	7551	6939	12651	12289	12113	12047	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	72610	8877	8016	7551	6939	12651	12289	12113	12047	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
74561	8706	8556	7235	7386	12559	12587	12589	12561	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	74561	8706	8556	7235	7386	12559	12587	12589	12561	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
74588	8676	8095	6878	6652	7444	12144	13013	12884	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	74588	8676	8095	6878	6652	7444	12144	13013	12884	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
74593	6700	6640	6649	7380	12458	12226	12038	11915	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	74593	6700	6640	6649	7380	12458	12226	12038	11915	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
74597	6628	6656	6609	6949	11611	12279	12255	11976	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	74597	6628	6656	6609	6949	11611	12279	12255	11976	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
74602	6621	6656	6609	6949	11611	12271	12210	12039	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	74602	6621	6656	6609	6949	11611	12271	12210	12039	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
74647	8833	7670	7074	6854	12726	12173	12436	11956	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	74647	8833	7670	7074	6854	12726	12173	12436	11956	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
74670	8840	8074	7251	6870	12325	12605	12402	12365	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	74670	8840	8074	7251	6870	12325	12605	12402	12365	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
74542	12747	12716	11933	13447	13549	13482	13683	13683	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	74542	12747	12716	11933	13447	13549	13482	13683	13683	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
45955	10490	10411	9473	13036	13032	12842	12454	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	45955	10490	10411	9473	13036	13032	12842	12454	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified		
44288	8410	7688	6392	6936	11515	12332	12457	12095	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	44288	8410	7688	6392	6936	11515	12332	12457	12095	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
44460	9090	10340	8570	8636	12556	12526	12684	12878	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	44460	9090	10340	8570	8636	12556	12526	12684	12878	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
44602	8835	7676	6344	6563	12329	12309	12318	12345	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	44602	8835	7676	6344	6563	12329	12309	12318	12345	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
44655	8483	7670	6704	6854	12726	12173	12436	11956	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	44655	8483	7670	6704	6854	12726	12173	12436	11956	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified
45700	8440	8031	6301	6740	11817	12210	12307	12072	Bacteria	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	unclassified	45700	8440	8031	6301	6740	11817	12210	12307								

Table S6 (part M): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

Sample ID (PMA)										Sample ID										taxonomic classification of representative rOTU cluster									
OTU	UR	CO	CRB_PMA	CRS_PMA	UR	CO	CRB	CRS	kingdom	phylum	class	order	family	genus	species														
44363	8279	7645	6482	6722	12811	12314	12158	12153	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44380	8386	8674	7032	6692	12471	12882	12783	12640	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44395	8286	7841	6573	7163	10648	11892	11758	11422	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44452	7997	6523	6343	7013	11678	12558	12218	11930	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44466	7746	6540	6222	6411	1204	11773	12233	11804	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44501	8005	6793	6762	7007	11406	12226	12107	12029	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44511	8728	8603	8164	7292	11457	12517	12911	12157	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44516	8261	6851	6479	6792	11147	12020	11937	11667	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44533	8445	7477	7032	6881	10985	12046	11947	11585	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44552	8447	7658	6805	6873	11255	12284	12151	11850	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44553	8515	7603	6801	7261	11084	12246	11843	11683	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44554	8013	7138	6991	6991	11813	12287	12131	11813	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44560	8407	7227	7268	7268	11923	12269	12046	12226	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44574	8036	6807	6833	6938	11281	12033	11738	11729	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44590	8527	8184	7092	7270	11343	12363	12153	11930	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44604	8000	6934	5666	6511	11557	12249	12267	12138	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44608	8226	7423	6886	6821	11125	12141	11998	11752	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44623	7804	6079	5866	6677	11560	12191	11846	11809	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44633	8176	7142	6840	6712	11040	12020	11933	11745	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44644	9314	8946	7153	7559	11399	11992	11465	11682	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44647	8262	7697	7057	7242	11693	12387	12131	12130	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44651	7891	7148	6480	6722	10830	11832	11605	11660	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44673	8056	6794	6819	7013	11794	12244	12043	11954	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44680	9699	9416	9522	9557	11694	12332	12296	12228	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44681	7745	6536	5892	6619	11147	12256	12195	12301	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44688	9566	9068	8426	7898	11652	11996	11709	11901	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44703	8325	8483	7235	7263	11947	12516	12399	12216	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44721	9961	10363	8819	8434	12643	12890	12804	13272	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44751	8413	7925	7345	7374	11748	12451	12229	12023	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44757	8258	7795	6542	6504	11397	12376	11759	11487	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44767	8421	7559	6829	6986	11071	12145	12022	11666	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44770	8007	7207	6949	6776	11545	12280	11789	11953	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44778	7709	6698	6045	6619	11491	12161	12017	12083	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44792	9277	7943	8792	7918	11875	12452	12500	12450	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44813	8112	8836	7086	6941	11865	11649	12123	12376	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44816	7855	6470	6526	6646	12025	12506	12884	12337	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44820	7770	6926	5912	6678	11669	12182	11825	11912	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44823	8485	7605	7215	7530	11597	12546	12384	12273	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44826	8093	7212	6232	6519	11157	12119	11965	11970	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44829	7960	7291	6647	6812	10684	11961	11715	11745	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44837	8340	7333	6633	6921	11186	12213	12222	11798	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44852	8681	9195	7251	6967	11532	12207	12245	12480	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44860	8408	7832	7474	7402	11965	12672	12470	12520	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44896	7803	6841	6374	7234	12163	12887	12672	12636	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44904	8488	9541	7089	7089	11847	12587	12376	12376	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44910	8020	6652	6226	6423	12207	12207	12207	12207	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44911	8163	7620	6519	6519	12233	12319	12263	12263	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44912	8314	7340	7294	7065	10808	12005	11880	11515	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44953	7699	6747	6603	6813	11554	12331	12340	12023	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44958	8011	6664	6753	7105	11607	12234	12043	11786	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44960	8607	8179	7124	7338	11506	12489	12201	12022	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
44976	9167	8233	7452	7848	12207	12160	12288	12164	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45005	8105	7241	7245	7038	11501	12482	12457	12244	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45015	8427	7725	7212	7212	11535	12193	12182	12085	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45016	7945	6671	6618	6760	11571	12162	12156	11837	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45053	7637	6534	6534	7143	11466	12157	11993	11740	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45097	8207	7464	6642	6642	6339	11027	12227	11617	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45105	8151	7243	6564	6704	11196	12111	12037	11722	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45111	7813	7068	6490	6882	12028	12108	11880	11740	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45118	7947	6115	6415	6787	11502	12389	12232	12280	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45130	7860	6689	6515	6482	11663	12234	12214	12061	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45121	7833	6787	5718	6535	11048	12086	11687	11790	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45228	8222	7572	6851	6851	6851	11223	12209	11798	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45230	7811	6968	6210	6832	11800	12363	11988	12290	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45238	7779	6702	5997	6242	11406	12054	11927	12015	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45246	8802	8822	8582	7313	10748	11810	11641	11437	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45297	8889	8787	8709	7340	12096	12126	12765	12070	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45300	8162	7533	6267	6567	11498	12440	12195	12198	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45308	8216	7582	6424	6952	11280	12213	12244	11754	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45311	8078	6702	6371	7325	11846	12826	12596	12256	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45320	8373	7806	6786	7342	12125	12771	12654	12542	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45324	7711	6679	6082	6644	11545	12589	12193	12193	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45326	8005	7039	6930	6644	11545	12589	12193	12193	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45327	7739	6952	6555	7165	11231	12097	11775	11699	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45329	7906	7056	6808	6808	11399	12200	12079	12079	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified														
45357	9562																												

Table S6 (part N): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

	Sample ID (PMA)						Sample ID						taxonomic classification of representative rOTU cluster					
DTU	UR	PMA	CR8	PMA	CR5	PMA	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species		
4556	7847	6910	6690	6901	11543	12074	11915	11840	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
4559	8629	8109	7560	7021	11516	12360	12299	12006	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
4556	8156	7366	7229	7156	11554	12138	11967	11870	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
4553	7775	7007	6342	6934	11647	12413	12296	12258	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
4558	8939	8856	7971	7786	11788	12347	12061	12081	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
4587	8374	7751	7434	7373	12059	1279	12619	12528	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
45601	8622	8586	8101	7160	11393	12332	12198	11966	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
45626	8060	7283	6748	7149	11758	12348	12236	12067	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
45628	8079	7431	7018	7182	11428	12270	12133	12060	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
4579	8111	7223	6832	6842	11605	12330	12147	12008	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
4562	8124	7451	6452	7005	11912	12592	12399	12276	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
45694	8226	7891	6848	7486	11831	12331	12188	12153	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
45695	8145	7189	6991	6865	11569	12271	12081	11953	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
45710	7262	6969	6560	6500	11466	12571	12379	12260	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
45725	8167	7361	7240	7033	11844	12465	12143	12149	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
45741	8071	7703	6773	6761	11100	12101	12076	11738	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
45628	8152	7071	6763	6761	11100	12101	12076	11738	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
45837	8613	8258	7228	7162	11084	12155	12048	12114	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
45844	7937	6963	5888	6706	11814	12500	12226	12235	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
45851	8430	8270	6938	7035	11493	12408	12486	12277	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
45870	7701	6523	5870	6641	11496	12153	11744	11856	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
45878	7774	6749	6497	6708	12008	12673	12517	12446	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
45879	8817	8842	7484	7544	11963	12304	11955	11974	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
45896	8495	9163	7321	6638	12026	12335	12596	12244	Bacteria	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	unclassified			
49397	9511	10215	8774	7633	11938	12511	12240	12059	Bacteria	Firmicutes	Bacilli	Thermicoccales	Thermicoccales	Thermicoccales	unclassified			
72587	10532	11225	10700	9786	11882	12305	12111	11600	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Clostridium	Clostridium perfringens			
27690	8763	9496	8070	7390	12154	12837	12561	12488	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Clostridium	unclassified			
44235	10278	10754	9495	7920	11926	12152	11405	11834	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Clostridium	unclassified			
44702	9610	10525	6881	7022	11542	12171	11093	11657	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Clostridium	unclassified			
44744	10121	10568	9358	8256	11569	12095	11081	11634	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Clostridium	unclassified			
45847	11653	11794	11889	11752	12578	12464	12227	12676	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Clostridium	unclassified			
45735	10329	10974	9411	8249	11837	12246	11904	11900	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Clostridium	unclassified			
45861	8547	9300	6362	6814	11800	12172	11043	11657	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Clostridium	unclassified			
72582	9497	9208	7040	7717	12221	12888	12221	12161	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Clostridium	unclassified			
72795	9211	9705	8802	8268	11863	12271	11772	11793	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Clostridium	unclassified			
71689	7858	6744	6596	6901	11614	12030	11885	11620	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Anaerococcus	Anaerococcus hydrogenalis			
71224	9835	10063	9555	9130	11573	12305	11898	12424	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Anaerococcus	Anaerococcus prevotii			
70669	10952	11247	10307	10266	11918	12620	12386	12364	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Anaerococcus	unclassified			
70706	9153	9177	8659	7756	12053	12326	12182	12582	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Anaerococcus	unclassified			
70712	8468	9475	8222	7593	11880	12613	12520	12083	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Anaerococcus	unclassified			
70850	9770	11113	11102	10100	12474	12807	12876	12343	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Anaerococcus	unclassified			
70595	8966	9881	9204	8024	12937	13152	12786	13196	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Anaerococcus	unclassified			
71020	9774	9500	8422	7612	12840	13045	12863	13282	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Anaerococcus	unclassified			
71075	9907	10162	9401	9252	12196	12884	12693	13119	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Anaerococcus	unclassified			
71091	9527	8481	6686	8800	12361	12306	12535	12989	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Anaerococcus	unclassified			
71113	9162	8870	8465	8160	11420	12669	11714	12183	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Anaerococcus	unclassified			
71191	9211	9656	8819	7825	12626	12373	12688	13034	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Anaerococcus	unclassified			
71202	10044	10237	7957	7755	11880	12613	12620	12593	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Anaerococcus	unclassified			
71226	9882	10165	11164	11164	12629	12654	12707	12579	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Anaerococcus	unclassified			
70288	9123	8613	6241	6814	11778	12199	12570	12369	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Anaerococcus	unclassified			
69929	9133	8717	7817	7200	11648	12304	12467	12684	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Finipeloidia	Finipeloidia magna			
70827	8846	7934	8283	7169	12074	12367	12484	12557	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Finipeloidia	Finipeloidia magna			
70838	9022	8523	8619	7035	12308	12209	12440	12600	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae Family XI. Incertae Sedis	Finipeloidia	Helcotorax			
70388	9099	7911	6501	8804	12055	12934	12292	12525	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
69286	8679	9000	6371	7156	11005	11902	11223	11760	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
69417	9294	8739	8815	8543	10855	12463	11056	11020	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
69881	8609	8185	7649	7147	10785	11862	11061	11606	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
70082	10097	10355	8060	7932	11611	12434	12172	12108	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
22993	8675	8995	7167	7111	11736	12524	12214	12733	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
17972	8376	7307	7805	7460	10712	12693	12109	12999	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
17765	9572	10229	7780	8390	12640	12918	13155	13794	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
17792	9789	10012	8934	8638	10448	10976	10489	11699	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
17828	8256	7465	6520	6913	11275	11658	11263	12023	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
17893	8346	6742	6785	7755	11986	11435	11792	12779	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
17954	8443	8396	8796	8641	10539	10881	10880	11766	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
17954	7912	7154	6958	7724	10968	11046	10784	11767	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
18113	8429	7511	6849	7249	11649	11558	11744	12759	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
18173	8220	7281	6753	7248	11649	11558	11744	12759	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
18232	7658	7575	6501	6677	11288	11892	11245	12241	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
18254	8456	7659	6704	7463	11300	11071	11302	12280	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
18281	9243	9447	7424	8430	10567	10575	10286	11633	Bacteria	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Peptoniphilus	Peptoniphilus unclassified			
17852	8678	8209	6807	6834	11063													

Table S6 (part O): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

Sample ID (PMA)				Sample ID				taxonomic classification of representative rOTU cluster								
OTU	UR_PMA	CO_PMA	CR8_PMA	CR5_PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species	
70485	9145	9873	6958	6785	1833	12711	11678	12610	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
70579	8937	9039	8095	7984	1269	12663	11590	12086	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
70606	11199	11538	10735	1034	1826	12701	11967	12695	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
70639	10477	11255	10555	1018	1236	12613	10303	12650	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
70729	9548	10493	9205	8920	1172	12321	11956	11944	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
70775	8747	8046	7874	7708	1500	12338	11768	1965	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
70838	8780	8576	7074	6961	11558	12020	11105	11807	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
70892	9388	7485	6735	8735	1289	12258	11450	11704	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
70902	9594	9782	9449	9056	11073	11777	11184	11410	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
70911	9939	11747	8284	9044	13063	13747	12771	13164	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
70956	8508	7242	7293	7870	1098	1207	11795	12858	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
71070	11214	12181	11261	11261	1207	12324	11254	12261	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
71095	9465	10239	9308	8743	12028	12883	12457	12726	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
71256	8526	7603	6906	7851	10653	12150	10985	11208	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
71259	8589	7663	7279	8086	10764	11871	11016	11635	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
71278	8539	7141	6538	7605	10864	11810	11007	11372	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
71598	10589	10631	10007	9459	12831	13010	12718	13015	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
72601	10020	10562	10257	9108	12444	12419	12054	12585	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
72674	9492	9668	9293	7969	11920	13307	12198	12528	Bacteria	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	unclassified	unclassified	
72682	8620	8008	7629	7268	11300	12389	11580	11896	Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	Desulfotomaculum	undclassified	
72693	8789	8841	8420	7544	10437	11725	10267	11424	Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	Desulfotomaculum	undclassified	
72883	10208	11240	10703	10811	13235	13175	13253	13302	Bacteria	Firmicutes	Clostridia	Clostridiales	Peptococcaceae	unclassified	unclassified	
72902	8977	8095	8715	7880	11453	12434	12142	12251	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
74700	8589	8267	6993	7278	11597	11938	11632	12035	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
74841	7987	7582	6916	6971	10841	12047	11456	11784	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
75077	8338	7697	7067	6848	10831	11883	11126	11714	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
75078	7719	7215	6027	6569	11057	12256	11726	11918	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
75139	8693	8940	7564	6641	11957	12505	11880	12653	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
75273	8170	7465	6963	7333	10632	11677	11039	10500	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
75288	8660	9036	7738	7333	11752	12453	11805	12589	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
75291	8243	7402	6653	7011	10522	11767	11246	11122	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
75295	8455	7312	6496	5742	11317	11759	11524	11955	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
75245	10706	11428	11031	9624	11993	12559	12205	12483	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
75249	8306	7436	6680	6837	10833	11883	11126	11714	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
75259	8635	8635	6139	6688	10268	11729	10846	10984	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
75260	8300	8300	6762	6979	10747	11647	11449	10963	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
75290	10598	10842	10702	10868	13193	13219	12988	13295	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
75294	8486	8832	7625	7252	11249	11791	11363	12021	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
75295	8272	7544	6757	7025	12128	12251	11704	11295	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76109	7950	7359	6689	6960	10792	12075	11381	11678	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76219	8053	7091	6489	6929	10797	12034	10984	10459	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76288	9713	9829	7668	7452	12945	13200	12988	13720	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76371	9675	10019	9087	9022	11689	12602	11913	12470	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76393	8347	7692	6814	6519	11142	11781	11615	11824	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76430	7844	6527	6032	6514	10324	11981	11679	12024	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76447	10674	10252	10244	10244	12278	12591	12289	12679	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76455	8834	7534	6544	7002	11848	12259	11555	11772	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76463	7948	7648	6255	6768	10542	11865	11084	11330	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76482	10133	10744	8701	8701	11865	13210	12242	12205	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76487	9432	9485	6712	6968	12855	13098	12862	13247	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76485	8004	7496	6708	7015	10232	11751	10928	11248	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76490	9127	8892	6986	6768	9922	12475	12634	12508	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76494	11014	11009	10613	9451	12405	12887	12487	12851	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76500	8446	7700	7075	759	10251	11860	10942	10984	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76508	7873	6519	6519	7807	10300	11753	10949	11060	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76545	10254	10254	10254	7354	11844	12259	11555	11772	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76546	7802	7692	6628	7395	10258	11747	10902	10963	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76547	8498	8809	7616	7221	11336	12123	11502	12148	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76578	9202	9202	8016	7301	11555	12300	12319	12593	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76586	12402	12402	12402	7746	10956	12403	11554	12402	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76588	8555	7912	7312	6268	7495	10677	12000	11114	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76594	7643	8024	5896	6968	11661	12265	11461	11665	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76637	8048	8753	7626	7189	11257	12082	11470	12426	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76654	11005	7920	6045	7058	10522	12226	11784	12449	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	Faecalibacterium prausnitzii	
76674	9647	9647	9647	7644	10956	12253	11720	12426	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus	Ruminococcus bromii	
76684	8594	6604	6604	7744	10956	12259	11415	12426	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus	Ruminococcus bromii	
76723	10113	8308	7403	8749	10445	12000	11203	12283	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus	Ruminococcus bromii	
76736	8831	9216	7960	7080	11555	12515	11899	12664	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus	Ruminococcus bromii	
76815	9744	8647	7848	7271	11514	12514	11219	12467	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus	Ruminococcus bromii	
76816	9223	8840	6738	7034	10743	12305	11516	12484	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus	Ruminococcus bromii	
76821	8042	7087	6537	704	10019	11763	10488	11397	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus	Ruminococcus bromii	
76826	8750	7798	7733	7560	10724	11468	11065	11708	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus	Ruminococcus bromii	
76744	7873	6453	7507	7116	11733	12070	11211	12211	Bacteria	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus	Ruminococcus bromii	
76984	8804</															

Table S6 (part P): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

OTU	Sample ID (PMA)				Sample ID				taxonomic classification of representative rOTU cluster									
	UR_PMA	CO_PMA	CR8_PMA	CR5_PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species			
50707	9140	9239	8398	7998	11354	12704	12117	11792	Bacteria	Firmicutes	Clostridia	Clostridiales	Veillonellaceae	Veillonella	unclassified			
50725	8459	7560	6884	7996	10195	11744	11536	10206	Bacteria	Firmicutes	Clostridia	Clostridiales	Veillonellaceae	Veillonella	unclassified			
5074	8712	7580	6985	7313	10784	11900	11660	11456	Bacteria	Firmicutes	Clostridia	Clostridiales	Veillonellaceae	Veillonella	dispar			
5842	9261	9480	8146	7899	10684	12168	12085	10929	Bacteria	Firmicutes	Clostridia	MBA0	unclassified	sfa	unclassified			
71919	9342	9511	7336	7451	11390	12038	11819	12123	Bacteria	Fusobacteriia	Fusobacteriales	Fusobacteriaceae	Lepiotrichia	unclassified				
5778	8927	8887	6970	7308	11349	12355	11493	12297	Bacteria	Gemmimatoidetes	Gemmimatoidetes	Gemmimatoidales	Gemmimatidae	Gemmimonas	unclassified			
58123	10358	10655	10078	8872	12447	12959	12302	13022	Bacteria	Gemmamatoidetes	Gemmamatoidetes	Gemmamatoidales	Gemmamatidae	unclassified				
58535	8188	8945	6341	6602	11010	12502	11235	11861	Bacteria	Gemmamatoidetes	Gemmamatoidetes	Gemmamatoidales	Gemmamatidae	unclassified				
58657	10225	10813	10177	9243	12248	13345	12737	13021	Bacteria	Gemmamatoidetes	Gemmamatoidetes	Gemmamatoidales	Gemmamatidae	unclassified				
58619	9321	9371	8571	8570	11703	13227	11976	12703	Bacteria	Gemmamatoidetes	Gemmamatoidetes	Gemmamatoidales	Gemmamatidae	unclassified				
58625	8469	10034	8170	7586	11769	12922	11748	12429	Bacteria	Gemmamatoidetes	Gemmamatoidetes	Gemmamatoidales	Gemmamatidae	unclassified				
58628	9580	10043	10043	7586	11769	12922	11728	12429	Bacteria	Gemmamatoidetes	Gemmamatoidetes	Gemmamatoidales	Gemmamatidae	unclassified				
58809	9749	8844	7959	7652	11224	12222	11782	12703	Bacteria	Gemmamatoidetes	Gemmamatoidetes	Gemmamatoidales	Gemmamatidae	unclassified				
57682	11889	12964	11887	11044	12855	13033	13674	14035	Bacteria	Gemmamatoidetes	Gemmamatoidetes	Gemmamatoidales	Gemmamatidae	unclassified				
58818	9602	10253	9123	7701	12350	12694	12153	12184	Bacteria	GN04	SavB	SavB	SavB	sfa	unclassified			
52294	8919	9510	7491	7641	11007	11948	11877	11579	Bacteria	Phantomycetes	C6	undclassified	undclassified	sfb	unclassified			
57308	9985	10694	9985	8854	21140	22730	12593	12899	Bacteria	Phantomycetes	Gemmatae	Iosphaerae	Iosphaera	unclassified				
52019	7878	8176	6718	7002	20409	11877	11481	11116	Bacteria	Phantomycetes	Gemmatae	Iosphaerae	Iosphaera	unclassified				
57583	8235	10252	6943	6971	12555	12210	12249	11718	Bacteria	Phantomycetes	Gemmatae	Iosphaerae	Iosphaera	unclassified				
57616	9428	11358	8815	8878	11478	12717	11267	12694	Bacteria	Phantomycetes	Gemmatae	Iosphaerae	Iosphaera	unclassified				
57527	9500	10283	8720	8202	12712	13622	13211	13077	Bacteria	Phantomycetes	Phantomycetes	Phantomycetes	Phantomycetes	unclassified				
58071	11668	11859	11840	11595	12954	12964	12540	12813	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	diminuta			
58887	10277	11099	9365	9432	12954	12942	12745	12840	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	diminuta			
59071	8117	7716	8383	7313	11775	11912	11851	11139	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	diminuta			
59158	10168	10144	8628	8628	12167	12159	12094	11514	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	diminuta			
59195	10144	9089	10095	10247	12238	12136	12094	11779	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	diminuta			
59196	11684	12097	11851	10665	13061	12978	12807	12603	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	diminuta			
59284	10881	11342	10273	10638	11822	12274	11821	12044	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	diminuta			
59317	9913	10604	9781	9234	11609	12156	11705	11695	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	diminuta			
59463	11029	9844	9684	9112	12801	13044	11789	11736	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	diminuta			
59960	10665	11365	10790	9867	12504	12404	12501	12454	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	diminuta			
60065	8201	9200	9600	7908	12185	12116	12084	12044	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	diminuta			
58882	8261	9594	8019	7761	12028	11777	11585	11526	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	diminuta			
59062	10724	11200	10439	10462	13275	12995	12758	12465	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	unclassified			
59178	8500	10517	9592	8464	12363	12649	12344	12844	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	unclassified			
59740	8490	8097	7446	7404	12046	11984	11666	11683	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	unclassified			
59875	9624	10495	9330	8873	12966	12761	12695	12693	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	unclassified			
60072	7809	9334	7291	6516	12352	12304	11656	12015	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	unclassified			
60100	9676	10347	10018	8394	12964	12039	12131	11617	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	unclassified			
60119	8506	8707	8877	8389	12441	12429	12119	12403	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Brevundimonas	unclassified			
59321	10189	10242	7536	10545	12150	12189	11922	12074	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Caulobacter	unclassified			
59599	10064	10863	9966	9744	12239	12177	12128	12070	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Caulobacter	unclassified			
58859	8304	7477	8721	6594	11561	11930	11758	11905	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Mycoplasma	unclassified			
58918	8132	8087	7268	7265	12256	12223	12187	12281	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Mycoplasma	unclassified			
59200	9103	9378	8930	8930	12286	12263	12244	12286	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	Mycoplasma	unclassified			
58841	10234	11767	10763	10265	12404	13016	12645	12756	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	unclassified				
59755	8778	8072	9793	8255	12065	12195	11903	10656	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	unclassified				
59762	8883	7949	9224	7509	12265	12537	12309	11869	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	unclassified				
60050	9039	10034	8555	7644	12879	12269	12023	12237	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	unclassified				
60071	9698	10177	10052	9114	12213	12363	12510	12019	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	unclassified				
59889	14000	14173	12181	1047	12252	12633	12343	12931	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Afipia	Afipia bromoeae			
60042	13722	14106	13221	12249	12455	12983	12598	12984	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Afipia	unclassified			
58889	10588	10135	10147	10447	12363	12644	12244	12468	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rosea	unclassified			
59122	9026	8729	7858	7858	12262	12420	12164	12182	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rosea	unclassified			
59395	8973	9657	7868	7843	12228	12419	12171	12176	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rosea	unclassified			
58976	12694	12818	12545	11751	12407	12629	12983	12899	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rosea	unclassified			
58993	13521	13708	12190	10191	8035	11794	12577	12183	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Bradyrhizobium	Bradyrhizobium canariense			
59524	12293	12715	13190	11311	13311	12951	13467	13956	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Bradyrhizobium	Bradyrhizobium elkanii			
60328	11859	11859	11868	10871	12026	12617	12130	12071	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Bradyrhizobium	Bradyrhizobium canariense			
60472	12329	12650	11596	11767	12319	12309	12846	12454	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Bradyrhizobium	Bradyrhizobium elkanii			
61285	9918	10022	9686	8278	11741	12469	12006	12666	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Bradyrhizobium	Bradyrhizobium elkanii			
59047	11046	11576	10493	10493	11626	12526	12318	12513	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Bradyrhizobium	Bradyrhizobium elkaniae			
59796	9451	8045	6045	7738	11226	11961	11896	11896	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Bradyrhizobium	Bradyrhizobium radiotolerans			
59212	9559	10745	10583	10583	11308	12307	12249	12249	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Bradyrhizobium	Bradyrhizobium zatmanii			
59570	10630	11231	10744	9771	11574	12001	12213	12202	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Bradyrhizobium	Bradyrhizobium zatmanii			
58882	9812	9035	9035	9000	10915	12694	12151	11792	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Bradyrhizobium	Bradyrhizobium komagatae			
59247	9855	7660	7660	7673	10695	11972	11599	11773	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Bradyrhizobium	Bradyrhizobium komagatae			
58040	9147	8410	7621	7621	11262	11687	11804	11613	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Bradyrhizobium	Bradyrhizobium komagatae			
59410	9440	10774	8694	8365	10957	11666	11846	11605	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Bradyrhizobium	Bradyrhizobium komagatae			
59842	9284	10780	8636</															

Table S6 (part Q): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

	Sample ID (PMA)				Sample ID				taxonomic classification of representative rOTU cluster									
OTU	UR_PMA	CO_PMA	CR8_PMA	CR5_PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species			
61956	11241	11741	11307	11056	12798	13120	11346	12214	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	unclassified	unclassified			
62194	11698	12427	12028	10905	7276	8699	10680	8911	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	unclassified	unclassified			
62538	9765	10359	9642	9049	11565	12500	11202	10967	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	unclassified	unclassified			
62819	9124	9149	8951	7798	10924	12130	11145	10621	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	unclassified	unclassified			
61693	9072	9484	8015	7985	11502	12407	11492	12088	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Agrobacterium	Agrobacterium rubi			
62512	9233	9599	8512	8009	1197	12153	11230	11998	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Agrobacterium	Agrobacterium rubi			
61785	10018	8362	7624	7365	12201	11747	10922	11186	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Agrobacterium	unclassified			
62086	10374	10941	10377	9108	11609	12527	11861	11989	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Candidatus	Candidatus liberibacter africanus			
61986	9866	10574	9769	9686	11798	12087	11050	11384	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rhizobium	unclassified			
61764	9415	8896	8474	8224	11862	12832	11333	11202	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rhizobium	unclassified			
61774	9413	10331	9450	8224	11697	12049	11005	11215	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rhizobium	unclassified			
61654	9628	10529	9861	8564	11852	12084	11005	11202	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rhizobium	unclassified			
61518	10289	11044	10339	9648	11714	12070	11025	11320	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rhizobium	unclassified			
62520	9866	10574	9769	9686	11798	12087	11050	11384	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rhizobium	unclassified			
62119	9141	9378	8652	8345	11639	11975	10807	11150	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rhizobium	unclassified			
61624	7892	9742	6408	7228	11626	12691	9155	9042	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rhizobium	unclassified			
61539	9797	9122	8447	8447	8447	12255	12604	11511	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rhizobium	unclassified			
62450	8052	10011	6447	6783	8851	11308	8533	8968	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rhizobium	unclassified			
62669	10134	10331	9451	8448	11762	12090	11277	11474	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rhizobium	unclassified			
62762	10038	10687	9942	9971	11924	12102	11603	11642	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rhizobium	unclassified			
62812	9098	9497	8654	8321	11641	11918	10850	11129	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Rhizobium	unclassified			
61935	9215	8723	8253	8048	11484	12839	11622	11717	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Shinella	unclassified			
59070	12274	12617	12730	11601	12506	12526	11288	12435	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	sfA	unclassified			
53996	9222	9211	8851	8533	10741	11675	11279	10830	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	sfA	unclassified			
61538	9091	8824	7530	7380	11176	11845	10370	10458	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	sfA	unclassified			
62664	11267	10622	9254	9067	11338	12397	12865	13249	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	sfA	unclassified			
59053	12658	12885	12593	11746	12833	12841	12959	13102	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Xanthobacteraceae	unclassified	unclassified			
60560	9606	10109	9370	8901	11327	12111	11608	11175	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Hyphomonadaceae	Oceaniculus	unclassified			
62391	9760	8784	8132	7902	11881	12725	11329	12074	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Nautella	Nautella italica			
61909	9014	10083	6956	7455	12505	13202	13123	12986	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	Paracoccus aminovorans			
62521	8311	8789	6890	7057	11233	12459	11349	11733	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	Paracoccus aminovorans			
62769	10175	8673	8527	8391	12468	12804	12911	12723	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	Paracoccus aminovorans			
62585	9632	9455	6016	6262	11960	12616	11339	12430	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	Paracoccus yeei			
61965	10617	11843	9685	8555	13407	13793	13674	13689	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	unclassified			
61984	8077	9312	6430	6440	10897	11875	11708	10446	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	unclassified			
62220	9935	11663	9464	8276	12178	13365	12434	12455	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	unclassified			
62380	10536	10962	9212	8164	12595	13206	12895	12986	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	unclassified			
62348	10237	10553	9035	8734	12550	13252	13056	13096	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	unclassified			
62371	11489	12227	10266	9743	13630	14032	13967	13909	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	unclassified			
62476	9826	11466	7954	8198	12793	13629	13429	13240	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	unclassified			
62719	8822	10018	8369	7308	11020	12383	12276	11769	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	unclassified			
62734	8081	10406	7373	6824	11983	12990	13415	12829	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	unclassified			
62890	9180	9178	7048	7225	11826	12707	12316	12288	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	unclassified			
61673	8969	10318	6987	7551	12055	13260	12473	12978	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium	unclassified			
62177	9883	10621	8864	8364	12595	13286	13024	13209	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium	unclassified			
62335	10023	10321	8621	8321	12550	13252	13024	13209	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium	unclassified			
62621	9421	9884	9029	8475	12500	12559	11899	12110	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium	unclassified			
62117	10322	10842	9857	9233	12853	13378	12627	13039	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium	unclassified			
61612	9861	9951	8979	8459	11868	13008	12903	11814	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium	unclassified			
61669	8988	9958	8032	7903	12055	13320	12784	12788	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium	unclassified			
62610	9434	10259	9744	9603	10569	12477	12707	11014	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium	unclassified			
62417	9555	9809	9049	8049	11944	12631	11963	12023	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium	unclassified			
62696	11467	11064	10230	10270	12912	13498	12963	12906	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Roseomonas	unclassified			
62758	11077	11694	10747	9311	13855	14397	13924	14119	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Roseomonas	unclassified			
62724	9749	9251	8236	8575	10268	11676	10760	10775	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Roseomonas	unclassified			
62790	9937	10327	9567	8672	11520	12321	11787	11956	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Roseomonas	unclassified			
62853	10260	11131	9107	8661	12183	13384	12806	12607	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Roseomonas	unclassified			
62627	10516	10230	8701	8701	8700	11944	12739	12611	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Roseomonas	unclassified			
61082	8555	8361	6668	6917	10562	12415	11405	11731	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	Acetobacteraceae	unclassified			
62331	10930	10934	10160	9561	12948	12883	12283	12096	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	Acetobacteraceae	unclassified			
62031	9179	9427	8862	7892	11426	12257	12180	11904	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	Acetobacteraceae	unclassified			
60597	8976	9405	8595	8519	11384	12469	11415	11893	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	Acetobacteraceae	unclassified			
61533	11425	11299	10553	10553	10553	12316	13116	12810	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	Acetobacteraceae	unclassified			
73726	10453	10540	10474	10474	10474	12566	12578	12524	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	Candidatus odysselia	unclassified			
72550	9770	10181	9203	8813	11503	12455	12421	13179	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	Rickettsia	Rickettsia akari			
72556	9784	10309	8785	8305	11707	12508	12414	12287	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	Rickettsia	Rickettsia akari			
72561	9144	10555	8152	7762	12027	12270	12276	12242	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	Rickettsia	Rickettsia akari			
72229	8700	8677	7223	7061	9635	12323	11263	11990	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	Rickettsia	unclassified			
62665	8644	8708	7950	7950	7950	11528	12062	9777	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Erythrobacteraceae	unclassified			
60005	10964	11288	10093	10066	12018	12440	11887	11862	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Erythrobacteraceae	unclassified			
61255	13366	13461	11307	11307	11307	12813	12813	12813	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Erythrobacteraceae	unclassified			
60916	10974	11103	10518	8323	11919	12964	12505	13029	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Erythrobacteraceae	unclassified			
60808	10853	11224	10168	9721	10994	12444	11552	12974	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Erythrobacteraceae	unclassified			
60837	10683	11080	10168	9721	10994	12444	11552	12974	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonad					

Table S6 (part R): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

OTU	Sample ID (PMA)			Sample ID			taxonomic classification of representative rOTU cluster									
	CO_PMA	CR8_PMA	CR5_PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species		
61355	12877	13259	13356	12117	12479	13031	12706	12932	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Novosphingiobium	unclassified	
60374	13062	13355	13056	12069	12373	12970	12635	12750	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	Sphingiobium herbicidovorans	
60291	12880	13118	12720	11911	11840	12364	12132	12316	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60301	10176	11883	9696	7795	11177	11764	11028	10424	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60332	11266	12147	10747	6510	11075	12106	11292	11284	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60395	12499	13261	12529	11341	12369	13047	12515	12175	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60421	11874	12517	12227	11362	12537	12312	12063	12049	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60538	9071	9885	8654	8002	12421	10261	9936	9818	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60557	9071	9885	8654	8002	12421	10261	9936	9818	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60579	11649	12306	13466	10119	9905	11297	11067	10472	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60732	12598	13065	12416	10570	11880	12601	12024	12062	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60845	11245	8803	8289	8289	12540	12520	12528	12567	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60920	11083	11404	11044	11044	12244	12289	12251	12269	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60970	10680	11076	10525	8540	12003	11054	11091	11002	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
61013	11325	12553	10728	10255	13346	12640	12025	12070	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
61101	10192	10759	10269	8659	12289	10640	10638	10555	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
61127	11847	12291	11947	11109	9133	9909	10518	9613	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
61290	9807	10526	9412	9466	12123	11746	10642	11108	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
61302	11966	12837	11782	7916	11257	12170	11634	11570	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
61372	11539	12426	11458	10134	10036	11624	11138	10531	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
61060	12812	13070	12704	11866	9760	10822	11463	11087	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	Caulobacter leydii	
61307	10028	10164	8941	8771	10874	11794	12101	11854	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
61205	10679	11166	10833	9473	11123	12649	12198	12112	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
61278	10008	10199	8429	8429	10653	12120	11118	11193	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
61430	10504	11757	10361	7583	11607	12346	11969	12287	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
61106	9311	9785	8974	8432	11026	10491	12469	10135	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
62811	13838	13989	13995	12905	12800	12735	12911	12924	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60315	12579	12921	12605	11644	11856	12300	12244	12533	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60348	13051	13629	13170	11671	12467	13017	13325	13233	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60351	10264	10803	10357	10110	11318	11741	11574	11829	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60398	11714	12292	11936	11059	10519	11644	11334	11240	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60449	11982	11914	10543	9945	9945	11943	10607	10600	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60564	11341	11512	10574	9471	10826	11847	11188	11733	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60568	12045	12338	11518	10184	11970	12659	12237	12471	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
61883	11297	12297	11818	11268	11688	12229	12029	12165	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60758	12325	12538	12940	11644	11551	12211	12008	11962	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60770	10773	11769	10673	8976	11206	12233	12131	12015	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60826	11458	12131	11317	10624	12947	13097	12763	13019	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60827	12841	13239	12876	11783	12012	12461	12550	12428	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60858	12276	12665	11902	10733	11869	11958	11623	11623	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60931	12067	12597	11043	11272	12154	12154	10811	10611	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
60966	11106	12025	11485	10370	11446	11670	12317	11815	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
61062	10792	11178	10170	9525	11677	12162	11843	11931	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
61087	11093	11392	11782	9402	11958	12037	12033	11714	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
61095	10997	11227	11180	9833	11770	12305	11467	11281	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingiobium	unclassified	
61025	9773	10000	10210	8720	12890	12693	12282	12210	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Alcaligenes	unclassified	
61137	11843	12670	12472	11252	13745	13779	13635	13471	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61150	10555	11756	11506	10355	12918	13235	12923	13111	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61174	11478	12193	11165	9342	14278	13981	13854	13757	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61804	11521	12146	11997	11503	13821	13815	13677	13920	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61851	10934	11392	11782	9402	11958	12037	12033	11714	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61870	10044	9511	9467	8724	13439	12898	13489	13817	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61741	8862	8143	8142	6934	11656	12006	12041	11923	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61566	10052	8579	8579	8127	12585	13134	12495	12282	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61596	9909	10542	10405	8875	10166	12310	12076	11013	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61657	11276	12776	12472	11273	13745	13779	13635	13471	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61744	10204	6223	8039	6218	14178	12389	13124	12633	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61760	9870	10283	10283	8250	12342	12733	11845	11533	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61804	11521	12146	11997	11503	12918	13235	12923	13111	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61851	10934	11392	11782	9402	11958	12037	12033	11714	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61870	10044	9511	9467	8724	13439	12898	13489	13817	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61897	9884	10355	10355	8069	12526	13191	12165	11523	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61929	9868	9526	9526	8868	11576	12328	12282	12210	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
61990	10246	10552	10552	8545	11477	12378	12301	12211	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
62094	12432	13115	13015	9255	11607	12000	12121	11359	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
62146	9860	11075	10705	9451	12120	12062	12123	12026	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
62175	9932	10246	9967	8663	12039	12449	11581	11802	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
62287	9362	9029	9184	8846	12209	12130	11584	11514	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
62311	11643	11457	11026	9648	11720	11876	11246	11276	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
62317	12341	12329	12329	11463	13629	13714	12117	12504	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Aquabacterium	unclassified	
62333	9591	9448	10018	7504	11683	11991	11466	11334	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadace			

Table S6 (part S): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

Sample ID (PMA)										Sample ID										taxonomic classification of representative rOTU cluster	
OTU	UR_PMA	CO_PMA	CR8_PMA	CR5_PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species						
13093	10679	11132	11390	10172	14038	13572	13237	12923	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
13106	9780	10286	8545	11712	12186	11517	11405	11405	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
13162	11290	11677	10601	10661	13392	13521	13191	13540	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
13274	11147	10875	9818	12284	12808	12256	12451	12451	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
13362	9118	8838	8339	7324	1086	11753	10913	10906	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
13400	10861	11243	10654	9443	12645	13070	12774	13059	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
13402	11375	12552	12465	10823	13353	13360	13124	13007	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
13681	8524	8606	8330	7115	11119	11995	12541	12079	12200	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified					
13763	11764	11895	12397	10917	11995	12541	12079	12211	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
13769	10851	11523	11294	10578	13434	12862	12846	12846	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
13882	11093	11659	11663	10412	12030	12174	11616	11529	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
13883	11094	11660	11664	10413	12031	12175	11617	11530	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
13893	11520	11554	11556	10425	13557	13203	12920	12894	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
14131	12671	13183	13597	12260	12023	12480	12523	12469	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
14133	10766	11378	11444	9305	12443	12807	12467	11610	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
14183	11037	12282	11260	11093	13006	13177	12913	13227	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
14194	11527	12055	12314	9945	12606	12894	12634	12873	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
14199	11341	11624	10370	10105	12650	12840	12891	13024	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
14292	11684	12095	12232	10464	11671	12474	11570	11588	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
15292	10720	11130	10414	8500	13212	12505	12518	12694	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	unclassified						
14652	9142	10655	8648	8442	11122	12350	11135	11014	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Burkholderiaceae	Burkholderia	unclassified						
14477	10028	10235	9978	9382	12871	12141	12274	12575	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Burkholderiaceae	Pandoraea	unclassified						
14545	10855	11529	11418	9665	12233	12844	12124	12214	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Burkholderiaceae	Pandoraea	unclassified						
15621	8032	10390	6781	7092	9798	12073	9350	9362	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Burkholderiaceae	Comamonadaceae	unclassified						
17051	11852	12311	12222	11420	12867	12398	12166	11939	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Comamonas	unclassified						
8808	9887	10520	9724	8763	11905	11890	11601	11471	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Deftia	unclassified						
10173	11339	11943	11315	10324	13000	13122	12437	12574	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
10400	10526	11498	10719	10269	12919	12920	12726	12561	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
10409	10975	11508	11273	10598	12169	12949	12246	12245	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
7690	11331	11916	11898	10510	11753	12630	12225	12211	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
7871	10334	11191	10906	9889	12775	12625	12339	12540	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8038	10831	11871	10164	9275	13462	13324	12896	13008	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8070	11914	12447	11526	10745	12735	13047	12653	12652	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8071	12228	12950	12364	11883	13875	13457	13322	13711	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8086	13681	13833	13699	13049	14399	14027	14018	14270	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8217	12207	12738	12490	11584	12879	13162	12928	12893	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8247	12449	12590	11590	11882	13419	13345	13453	13471	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8249	8510	7363	7023	703	12712	9990	8752	9469	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8300	11457	12208	11806	10870	12581	13253	13178	13013	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8316	10352	11131	10070	8809	13341	12966	12551	12507	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8385	12422	13005	12424	11926	13743	13591	12717	13131	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8437	10560	11184	9536	8067	13169	12923	12023	12497	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8529	9611	10559	9819	7727	13272	12630	12536	12526	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8546	11206	11761	11361	10524	12948	12935	12733	12521	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8550	9833	10524	9204	8709	12545	12810	12573	12609	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8653	9873	10523	9204	8709	12545	12810	12573	12609	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8842	11598	12169	12167	12207	12725	12439	11984	12020	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8845	11710	11981	10921	10073	12940	13260	12611	12655	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
8863	9968	10633	9102	8309	13070	13267	11860	12244	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
9182	10678	11364	9407	8922	13763	13358	12662	12662	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
9253	10619	11364	11364	10234	12744	12240	11752	12266	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
9280	9937	10669	8792	7966	13231	12667	12110	12526	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
9418	10133	11020	9549	8347	13245	12943	12152	12459	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
9472	12391	12948	12718	11250	12697	12633	12613	13193	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
9938	14026	14223	14082	13524	14039	13899	12942	13817	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	unclassified						
9917	10139	10524	9734	9236	1107	11453	11769	11257	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Polarimonas	unclassified						
9103	12200	11818	11400	9662	12764	12759	11857	11944	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Rhodiferax	unclassified						
9232	12040	12649	12427	11444	12049	12403	12196	12088	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Rhodiferax	unclassified						
9359	9080	10002	8590	9724	9411	12041	12156	12480	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Rhodiferax	unclassified						
10116	11554	12297	12059	10822	11871	13015	12987	12673	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Simplicispira	unclassified						
10362	11703	12197	12653	11571	12261	12739	12167	12795	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	unclassified							
15978	8621	7974	7776	8264	7628	11787	11568	10640	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	unclassified							
16848	11943	9254	8025	8146	11477	11996	11042	11006	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Methylibium	unclassified						
13991	8650	9887	7996	7580	11831	12652	10257	10922	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Methylibium	unclassified						
13122	8833	8502	7473	7607	11105	12581	10176	10521	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Methylibium	unclassified						
14597	10544	8346	8980	8508	13941	1286															

Table S6 (part T): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

OTU	Sample ID (PMA)			Sample ID										taxonomic classification of representative rOTU cluster																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	CO_PMA	CR8_PMA	CR5_PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species	OTU	UR_PMA	CR8_PMA	CR5_PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
14633	8541	8899	7248	7275	11705	11791	11401	11605	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	Oxalobacter	unclassified	15016	11475	11603	11358	10198	12172	12224	11841	11651	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	unclassified	15459	8774	7666	7335	11313	12157	13207	1126	1126	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	unclassified	15508	9008	8546	8287	7944	11102	11372	12327	11068	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	unclassified	15533	9150	7426	7632	708	11403	11909	12038	11504	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	unclassified	15581	9391	7951	7846	7571	12010	12893	12914	12476	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	unclassified	15605	11371	11215	11314	9888	13661	11659	12317	11535	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	unclassified	15679	8870	8261	6106	804	10354	11703	11491	10215	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	unclassified	15731	9917	7135	8138	6667	12029	12129	12091	12079	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	unclassified	15831	7489	6038	6185	7218	10379	12183	11642	11588	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	unclassified	14831	8965	9063	8361	8850	11916	13172	11881	12293	Bacteria	Proteobacteria	Betaproteobacteria	Nitrosomonadales	Nitrosomonadaceae	unclassified	15849	7249	7849	6280	6823	10403	12036	11896	8896	Bacteria	Proteobacteria	Betaproteobacteria	Nitrosomonadales	Nitrosomonadaceae	unclassified	15859	12796	13240	13001	1539	12939	13133	12862	13062	Bacteria	Proteobacteria	Betaproteobacteria	Nitrosomonadales	Nitrosomonadaceae	unclassified	15887	7500	6672	6211	6716	8866	12050	9008	6772	Bacteria	Proteobacteria	Betaproteobacteria	Rhodocytobacterales	Rhodocytobacteraceae	Thaueria	15937	7656	6647	7028	8853	12983	9056	9335	Bacteria	Proteobacteria	Betaproteobacteria	Rhodocytobacterales	Rhodocytobacteraceae	unclassified	14678	9899	9845	9483	8047	11741	12564	12037	11943	Bacteria	Proteobacteria	Betaproteobacteria	unclassified	ida	unclassified	15869	8701	8861	8125	7767	11209	12294	11494	11801	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Nitrospinaceae	unclassified	15741	9055	9268	8508	7652	12283	12615	12541	12881	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobivorales	Desulfobivoriaceae	Desulfobivirio	15845	13199	13602	13509	12926	14042	13854	13621	13673	Bacteria	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobivoriaceae	unclassified	15814	8143	8984	6726	6553	10210	11980	11511	11449	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Cystobacteraceae	Archangium	15846	8281	9135	6746	6742	10407	12192	11720	11733	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Cystobacteraceae	Archangium	15891	7623	7718	6347	6621	9728	11751	11562	11133	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Cystobacteraceae	Archangium	15129	8437	8829	7255	7038	10518	11941	10562	11093	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Hallangiaeace	unclassified	15182	12664	13225	12606	12043	13431	13554	13397	13192	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Hallangiaeace	unclassified	15242	9016	10110	8834	7640	11555	12700	12071	11951	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Hallangiaeace	unclassified	15201	10121	10638	11409	10501	11186	12497	12393	11655	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Hallangiaeace	unclassified	15856	9565	9354	9177	8540	10140	11866	11168	11175	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Ostibacteraceae	Anaeromyxobacter	15876	8730	8604	6799	7424	11186	12298	11611	11610	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Ostibacteraceae	unclassified	15243	9344	9466	7603	7837	12346	13056	12482	12565	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Ostibacteraceae	unclassified	15237	8041	6790	6354	6641	10913	11812	10686	11379	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Ostibacteraceae	unclassified	15203	10972	11124	10863	10592	11430	11668	11273	11896	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Ostibacteraceae	unclassified	15280	8102	7716	7621	6865	10664	11136	11769	12185	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Ostibacteraceae	unclassified	15180	9817	9755	8728	7805	14006	13577	1378	1370	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Syntrophobacteraceae	unclassified	15241	9227	8782	7713	795	12002	12638	12151	12321	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Syntrophobacteraceae	unclassified	15245	8567	7777	6784	7233	10899	12155	11167	11587	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Syntrophobacteraceae	unclassified	15186	11297	11857	11439	10348	12713	13386	12934	13333	Bacteria	Proteobacteria	Deltaproteobacteria	Myxococcales	Syntrophobacteraceae	unclassified	16065	9035	8923	7965	7124	11730	12179	11420	1192	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Succinivibrionaceae	Succinivibrio	15222	11435	10548	10577	904	12233	12773	11733	11948	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15203	10972	11124	10863	10592	11430	11668	11273	11896	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15287	8558	7777	6935	7456	11707	12250	11812	11872	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Syntrophobacteraceae	Desulfobacterium	15280	8102	7716	7621	6865	10664	11136	11769	12185	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Syntrophobacteraceae	unclassified	15188	9817	9755	8728	7805	14006	13577	1378	1370	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Syntrophobacteraceae	unclassified	15241	9227	8782	7713	795	12002	12638	12151	12321	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Syntrophobacteraceae	unclassified	15245	8567	7777	6784	7233	10899	12155	11167	11587	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Syntrophobacteraceae	unclassified	15186	11297	11857	11439	10348	12713	13386	12934	13333	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Syntrophobacteraceae	unclassified	16065	9035	8923	7965	7124	11730	12179	11420	1192	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Succinivibrionaceae	Succinivibrio	15222	11435	10548	10577	904	12233	12773	11733	11948	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15203	10972	11124	10863	10592	11430	11668	11273	11896	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15280	8102	7716	7621	6865	10664	11136	11769	12185	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15188	9817	9755	8728	7805	14006	13577	1378	1370	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15241	9227	8782	7713	795	12002	12638	12151	12321	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15245	8567	7777	6784	7233	10899	12155	11167	11587	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15186	11297	11857	11439	10348	12713	13386	12934	13333	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	16065	9035	8923	7965	7124	11730	12179	11420	1192	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Succinivibrionaceae	Succinivibrio	15222	11435	10548	10577	904	12233	12773	11733	11948	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15203	10972	11124	10863	10592	11430	11668	11273	11896	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15280	8102	7716	7621	6865	10664	11136	11769	12185	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15188	9817	9755	8728	7805	14006	13577	1378	1370	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15241	9227	8782	7713	795	12002	12638	12151	12321	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15245	8567	7777	6784	7233	10899	12155	11167	11587	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15186	11297	11857	11439	10348	12713	13386	12934	13333	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	16065	9035	8923	7965	7124	11730	12179	11420	1192	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Succinivibrionaceae	Succinivibrio	15222	11435	10548	10577	904	12233	12773	11733	11948	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15203	10972	11124	10863	10592	11430	11668	11273	11896	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15280	8102	7716	7621	6865	10664	11136	11769	12185	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15188	9817	9755	8728	7805	14006	13577	1378	1370	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15241	9227	8782	7713	795	12002	12638	12151	12321	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15245	8567	7777	6784	7233	10899	12155	11167	11587	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15186	11297	11857	11439	10348	12713	13386	12934	13333	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	16065	9035	8923	7965	7124	11730	12179	11420	1192	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Succinivibrionaceae	Succinivibrio	15222	11435	10548	10577	904	12233	12773	11733	11948	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15203	10972	11124	10863	10592	11430	11668	11273	11896	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15280	8102	7716	7621	6865	10664	11136	11769	12185	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15188	9817	9755	8728	7805	14006	13577	1378	1370	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15241	9227	8782	7713	795	12002	12638	12151	12321	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15245	8567	7777	6784	7233	10899	12155	11167	11587	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15186	11297	11857	11439	10348	12713	13386	12934	13333	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	16065	9035	8923	7965	7124	11730	12179	11420	1192	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Succinivibrionaceae	Succinivibrio	15222	11435	10548	10577	904	12233	12773	11733	11948	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15203	10972	11124	10863	10592	11430	11668	11273	11896	Bacteria	Proteobacteria	Gammareobacteria	Aeromonadales	Chromatiales	unclassified	15280	8102	7716	7621	6865	10664	11136

Table S6 (part U): HybScores of OTUs that were called present in at least one of the samples. Taxonomic classifications are based on PhyloChip taxonomy (derived from GreenGenes). Please note, that data presented here was rank normalized before performing statistical analyses presented in the manuscript.

OTU	Sample ID (PMA)				Sample ID				taxonomic classification of representative rOTU cluster							
	UR_PMA	CO_PMA	CR8_PMA	CR5_PMA	UR	CO	CR8	CR5	kingdom	phylum	class	order	family	genus	species	
3736	8177	6446	6249	6863	9897	8367	11591	11651	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	Pseudomonas	unclassified	
421	8625	7213	6303	6956	11633	10870	11533	11945	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	Pseudomonas	unclassified	
507	9804	10810	10056	10030	11551	12269	11848	11881	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	Pseudomonas	unclassified	
508	8397	7930	7315	7692	11755	12432	11912	12264	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	Pseudomonas	unclassified	
841	10540	11070	10859	10500	11491	11860	11549	11586	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	Pseudomonas	unclassified	
17392	7648	10442	7464	6524	9849	13006	9630	9488	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Dokdonella	unclassified	
17015	9650	10205	9190	10461	11625	13136	12326	11826	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Dyella	unclassified	
16349	10693	11025	11325	10885	12076	12525	11829	12418	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Luteimonas	Luteimonas mephitis	
16030	8890	11006	9190	7456	11629	12267	10962	11899	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Lysobacter	unclassified	
16221	8674	8071	6980	6521	11106	12675	11075	12651	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Lysobacter	unclassified	
16495	8084	6534	6139	6560	9728	12702	10986	11828	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Lysobacter	unclassified	
16734	9420	10124	7876	7422	11811	12643	10859	10886	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Lysobacter	unclassified	
16819	8498	11280	9031	6965	11852	12434	11601	11761	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Lysobacter	unclassified	
16847	7979	8139	6248	6916	11844	12169	11069	11120	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Lysobacter	unclassified	
15908	9023	8327	7446	7022	11656	10922	10353	10572	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Pseudoxanthomonas	unclassified	
15920	9721	10881	9926	8606	10405	12350	10356	10890	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Rhodanobacter	unclassified	
16340	7903	9600	7348	6386	7982	12229	8734	8804	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Rhodanobacter	unclassified	
16376	9165	9893	9140	8475	10715	12836	11798	11197	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Rhodanobacter	unclassified	
17357	9078	7829	6791	6892	10471	12146	10387	10438	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Rhodanobacter	unclassified	
16520	8643	7353	7025	7360	12313	10179	9476	9734	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Stenotrophomonas	Pseudomonas geniculata	
16522	7988	6786	6188	6948	12324	9966	9488	9829	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Stenotrophomonas	Pseudomonas geniculata	
16590	8595	7435	6607	7503	12709	10976	10225	10344	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Stenotrophomonas	Pseudomonas geniculata	
17322	8758	7749	6979	7557	12943	11484	10841	10926	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Stenotrophomonas	Pseudomonas geniculata	
15941	9950	8875	6848	7352	12165	10910	9525	10376	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Stenotrophomonas	unclassified	
16250	8975	8547	7457	7588	12337	11286	10611	10549	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Stenotrophomonas	unclassified	
16971	9227	7776	7300	7556	12652	11036	11306	10826	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Stenotrophomonas	unclassified	
17229	10464	10353	9555	9142	13395	12951	12531	12324	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Stenotrophomonas	unclassified	
15917	8274	10320	7969	7137	11074	12449	10118	10341	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Thermomonas	unclassified	
15987	9476	10661	7156	8170	11145	12425	10636	11888	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Thermomonas	unclassified	
16000	11443	12265	11958	10414	13021	12983	12480	12314	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	unclassified	unclassified	
16096	8145	8279	7049	6547	12437	11641	11204	11123	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	unclassified	unclassified	
16717	8467	10029	7737	6835	12149	12491	11539	11382	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	unclassified	unclassified	
16161	9457	9254	6953	7785	12369	12379	10799	11558	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Xanthomonas	Xanthomonas axonopodis	
16425	8691	9090	6903	7770	12209	12382	10755	11467	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Xanthomonas	Xanthomonas axonopodis	
16916	9059	9219	7052	7622	12393	12113	10948	11536	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Xanthomonas	Xanthomonas axonopodis	
17348	9049	8512	6733	7690	12006	11646	10185	11097	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Xanthomonas	Xanthomonas axonopodis	
54344	11499	12186	10845	10794	13610	13598	13474	13808	Bacteria	SAR406	AB16	Arctic96B-7	A714017	SHAG537	unclassified	
54147	11069	11088	10452	9790	11704	12604	11931	12150	Bacteria	SAR406	AB16	SSW63Au	SHAS460	unclassified	unclassified	
54684	11009	11219	11324	10167	12602	13027	12515	13169	Bacteria	SAR406	AB16	SSW63Au	SHAS460	unclassified	unclassified	
54850	8702	8891	8303	7376	11731	12133	11717	11944	Bacteria	SAR406	AB16	ZA3648c	AEGEAN_185	unclassified	unclassified	
51571	7757	7134	6761	6984	10228	12088	11025	11416	Bacteria	SC4	unclassified	unclassified	sfA	unclassified	unclassified	
76572	9757	10833	9553	9413	12297	12997	12358	12395	Bacteria	Spirochaetes	Spirochaetes	Spirochaetales	Spirochaeta	unclassified	unclassified	
71526	8607	8171	6523	7314	11217	11881	11337	11606	Bacteria	Spirochaetes	WWE1	PBS-18	SHA-4	Zplanct13	unclassified	
54955	7996	8801	7279	7258	11213	12330	11850	11972	Bacteria	Synergistetes	Synergistia	Dethiosulfovibrioaceae	HA73	unclassified	unclassified	
71623	8314	8759	6438	6704	10270	11738	10787	11050	Bacteria	Tenericutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	PSB-M-3	unclassified	unclassified
70828	11476	11793	11435	11032	13439	13297	13413	14144	Bacteria	Tenericutes	Mollicutes	Entomoplasmatales	Spiroplasmataceae	Spiroplasma	unclassified	unclassified
71411	9425	9766	8698	8180	12644	12077	12388	12799	Bacteria	Tenericutes	Mollicutes	RF39	unclassified	sfA	unclassified	unclassified
71601	8636	9563	8344	7874	11522	12271	11769	12122	Bacteria	Tenericutes	Mollicutes	RF39	unclassified	sfA	unclassified	unclassified
53679	8522	7750	7076	7152	10822	12325	11072	12312	Bacteria	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus	unclassified	unclassified
53750	8571	8721	8002	6772	12423	13202	12521	12720	Bacteria	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus	unclassified	unclassified
53827	9134	9619	8253	7898	12534	13152	12074	12907	Bacteria	Thermi	Deinococci	Deinococcales	Deinococcaceae	Deinococcus	unclassified	unclassified
55906	7646	6323	5699	6560	10597	10400	11537	11066	Bacteria	Verrucomicrobia	Opitutae	Opitutales	Opitutaceae	unclassified	unclassified	unclassified
55241	9444	9801	8891	8642	11239	11804	11704	11664	Bacteria	Verrucomicrobia	Opitutae	Puniceicoccaceales	Puniceicoccaceae	unclassified	unclassified	unclassified
55347	10478	11331	10079	9583	12601	13077	12349	12407	Bacteria	Verrucomicrobia	Verrucomicrobiales	Verrucomicrobiaceae	Verrucomicrobiaceae	unclassified	unclassified	unclassified
56113	8531	8942	7399	7421	12043	13119	12114	12331	Bacteria	Verrucomicrobia	Verrucomicrobiales	Verrucomicrobiaceae	Verrucomicrobiaceae	unclassified	unclassified	unclassified
58667	8144	8199	6778	6966	10631	11886	10754	11626	Bacteria	WS3	PRR-12	CV106	unclassified	sfA	unclassified	unclassified
58579	11592	12208	9787	10836	11982	12807	11886	12286	Bacteria	WS3	PRR-12	GN03	unclassified	sfC	unclassified	unclassified
58597	8744	8672	6467	6909	11644	12406	11369	11605	Bacteria	WS3	PRR-12	GN03	unclassified	sfC	unclassified	unclassified
58646	8382	9601	6883	6833	11821	12482	11856	11901	Bacteria	WS3	PRR-12	GN03	unclassified	sfD	unclassified	unclassified

Table S7: Archaeal 454 pyrotag sequencing reads

OTU	UR	CO	CR8	CR5	taxonomic classification of archaeal 16S rRNA gene amplicons				
					phylum	class	order	family	genus
0	0	3	0	0	Euryarchaeota	Methanomicrobia	Methanocellales	Methanocellaceae	Methanocella
2	34	0	0	0	Euryarchaeota	Halobacteria	Halobacteriales	Halobacteriaceae	unclassified
3	0	0	6	0	Euryarchaeota	Halobacteria	Halobacteriales	Halobacteriaceae	Halococcus
12	0	0	0	12	Euryarchaeota	Halobacteria	Halobacteriales	Halobacteriaceae	Halococcus
16	0	15	1	14	Euryarchaeota	Halobacteria	Halobacteriales	Halobacteriaceae	Halalkalicoccus
17	0	1	14	0	Euryarchaeota	Halobacteria	Halobacteriales	Halobacteriaceae	Halococcus
1	0	1	0	0	Thaumarchaeota	Thaumarchaeota	Nitrosphaerales	Nitrosphaeraceae	Candidatus Nitrosphaera (SCA1145)
4	1	0	0	0	Thaumarchaeota	Thaumarchaeota	Nitrosphaerales	Nitrosphaeraceae	Candidatus Nitrosphaera (SCA1170)
5	79	120	3	40	Thaumarchaeota	Thaumarchaeota	Nitrosphaerales	Nitrosphaeraceae	Candidatus Nitrosphaera (SCA1145)
6	0	1	0	0	Thaumarchaeota	Thaumarchaeota	Nitrosphaerales	Nitrosphaeraceae	Candidatus Nitrosphaera
7	3	2	1	0	Thaumarchaeota	Thaumarchaeota	Nitrosphaerales	Nitrosphaeraceae	Candidatus Nitrosphaera (SCA1170)
8	0	3	0	0	Thaumarchaeota	Thaumarchaeota	Nitrosphaerales	Nitrosphaeraceae	Candidatus Nitrosphaera (SCA1170)
9	1	72	21	16	Thaumarchaeota	Thaumarchaeota	Nitrosphaerales	Nitrosphaeraceae	Candidatus Nitrosphaera
10	7	6	0	1	Thaumarchaeota	Thaumarchaeota	Nitrosphaerales	Nitrosphaeraceae	Candidatus Nitrosphaera (SCA1145)
11	0	1	0	0	Thaumarchaeota	Thaumarchaeota	Nitrosphaerales	Nitrosphaeraceae	Candidatus Nitrosphaera (SCA1145)
13	0	2	1	0	Thaumarchaeota	Thaumarchaeota	Nitrosphaerales	Nitrosphaeraceae	Candidatus Nitrosphaera (SCA1145)
14	0	1	0	0	Thaumarchaeota	Thaumarchaeota	Nitrosphaerales	Nitrosphaeraceae	Candidatus Nitrosphaera
15	0	1	0	0	Thaumarchaeota	Thaumarchaeota	Nitrosphaerales	Nitrosphaeraceae	Candidatus Nitrosphaera ( <i>N. gargensis</i> )

Supplementary Fig. to Table S7: Assignment of picked archaeal OTUs to their phylogenetic groups. Proportions are shown in relative abundance [%]. Beside the family of Halobacteriaceae all other taxonomic ranks are resolved up to genus level. Colored boxes (from left to right) show their presence throughout sampled rooms (UR, CO, CR8 and CR5).

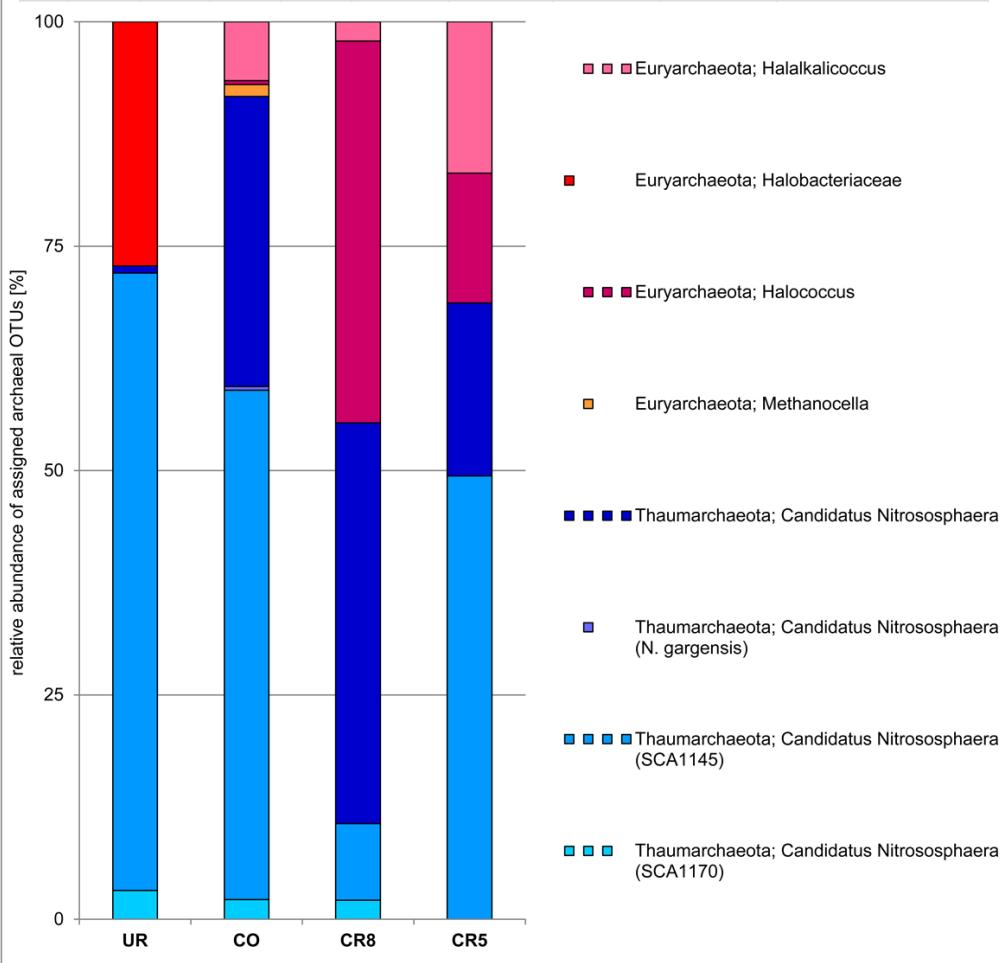


Table S8: Detected bacterial diversity in the extraction blank sample by 16S rRNA gene cloning (cOTUs), PhyloChip (rOTUs) and 454 pyrotag sequencing (pOTUs).

cOTUs	Acc. No./ OTU No.	class	order	family	genus
16S rRNA gene cloning	JQ855568	Actinobacteria	Actinomycetales	Brevibacteriaceae	Brevibacterium
	JQ855515	Bacilli	Lactobacillales	Carnobacteriaceae	Trichococcus
	JQ855519	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	Afipia
	JQ855602	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	unclassified
	JQ855523	Alphaproteobacteria	Rhizobiales	Xylophagaceae	unclassified
	JQ855574	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas
	JQ855516	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas
	JQ855557	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium
	JQ855508	Betaproteobacteria	Burkholderiales	Comamonadaceae	Variovorax
	JQ855524	Betaproteobacteria	Burkholderiales	Comamonadaceae	Variovorax
rOTUs					
PhyloChip	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	
	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	
	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	
	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	
	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	
	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	
	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	
	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	
	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	
	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	
	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	
	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	
	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	
	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	
	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	
	Actinobacteria	Actinomycetales	Corynebacteriaceae	Corynebacterium	
	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Ochrobactrum	
	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	
	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	
	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	
	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	
	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	
	Betaproteobacteria	Burkholderiales	Comamonadaceae	Diaphorobacter	
	Betaproteobacteria	Burkholderiales	Comamonadaceae	Giesbergeria	
	Betaproteobacteria	Burkholderiales	Comamonadaceae	Simplicispira	
	Betaproteobacteria	Burkholderiales	Comamonadaceae	unclassified	
	Deltaproteobacteria	Myxococcales	Haliangaceae	unclassified	
pOTUs					
bacterial 16S rRNA amplicons by 454 pyrotag sequencing	Actinobacteria	Actinomycetales	Micrococcaceae	Micrococcus	
	Actinobacteria	Actinomycetales	Micrococcaceae	Arthrobacter	
	Actinobacteria	Actinomycetales	Nocardiaceae	Rhodococcus	
	Actinobacteria	Actinomycetales	Propionibacteriaceae	Propionibacterium	
	Actinobacteria	Actinomycetales	unclassified	unclassified	
	Actinobacteria	Solirubrobacterales	unclassified	unclassified	
	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	unclassified	
	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	Afipia	
	Alphaproteobacteria	Rhizobiales	Methyllobacteriaceae	Methyllobacterium	
	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Paracoccus	
	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Novosphingiobium	
	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingobium	
	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	
	Anaerolineae	Anaerolineales	Anaerolinaceae	DRC31	
	Bacilli	Bacillales	Paenibacillaceae	unclassified	
	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus	
	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella	
	Betaproteobacteria	Burkholderiales	Aquabacteriaceae	Aquabacterium	
	Betaproteobacteria	Burkholderiales	Burkholderiaceae	Burkholderia	
	Betaproteobacteria	Burkholderiales	Burkholderiaceae	Pandoraea	
	Betaproteobacteria	Burkholderiales	Comamonadaceae	Variovorax	
	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	Janthinobacterium	
	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	Massilia	
	Betaproteobacteria	Burkholderiales	Burkholderiaceae	Pandoraea	
	Betaproteobacteria	Burkholderiales	Burkholderiaceae	Chitinimonas	
	Betaproteobacteria	Methylphilales	Methylphilaceae	Methylotenera	
	Betaproteobacteria	Neisseriales	Neisseriaceae	Chromobacterium	
	Chloracidobacteria	undclassified	undclassified	undclassified	
	Chloroplast	Streptophyta	undclassified	undclassified	
	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Flavobacterium	
	Gammaproteobacteria	Chromatiales	Sinobacteraceae	Steroidobacter	
	Gammaproteobacteria	Enterobacteriales	Enterobacteriaceae	Yersinia	
	Gammaproteobacteria	Oceanospirillales	Halomonadaceae	Halomonas	
	Gammaproteobacteria	Pseudomonadales	Moraxellaceae	Acinetobacter	
	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	Pseudomonas	
	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Pseudoxanthomonas	
	Gammaproteobacteria	undclassified	undclassified	undclassified	
	Sphingobacteria	Sphingobacteriales	Rhodothermaceae	undclassified	
	Synechococcophyce	Pseudanabaenales	Pseudanabaenaceae	undclassified	
	Thermomicrobia	undclassified	undclassified	undclassified	

Table S9.1. real node table for pOTU network (based on pyrotagsequencing data) and visualization in Cytoscape

node_name	degree	weighted_degree	shared
denovo0	1	3	CR8
denovo1	1	2	CR8
denovo10	1	1	CO
denovo100	1	14	CO
denovo1000	2	4	CR8,CR5
denovo1001	2	2	CO,CR5
denovo1002	1	1	CR8
denovo1003	1	8	CO
denovo1004	1	1	CO
denovo1005	1	1	CR5
denovo1006	1	2	CO
denovo1007	1	1	CO
denovo1008	1	3	CO
denovo1009	2	2	CO,CR8
denovo101	1	1	CR8
denovo1010	1	1	CO
denovo1011	1	1	CR8
denovo1012	1	1	CO
denovo1013	2	8	CO,CR5
denovo1014	4	25	CO,UR,CR8,CR5
denovo1015	2	7	UR,CR5
denovo1016	2	2	CO,CR8
denovo1017	1	3	CO
denovo1018	3	25	CO,CR8,CR5
denovo1019	1	1	CR5
denovo102	1	1	CO
denovo1020	1	1	CR5
denovo1021	1	1	CO
denovo1023	1	7	CO
denovo1024	1	6	CO
denovo1025	1	10	UR
denovo1026	1	4	CR8
denovo1027	1	13	CO
denovo1028	1	1	CR8
denovo1029	1	1	CR5
denovo103	1	1	CR5
denovo1030	1	1	CO
denovo1031	1	1	CR5
denovo1032	1	1	CO
denovo1033	1	1	CR8
denovo1034	1	1	CR5
denovo1035	2	4	CO,CR5
denovo1036	1	1	UR
denovo1037	4	11	CO,UR,CR8,CR5
denovo1038	1	1	UR
denovo104	1	1	CO
denovo1040	2	4	CO,CR5
denovo1041	1	1	UR
denovo1042	1	2	CO
denovo1043	2	12	UR,CR8
denovo1044	3	8	UR,CR8,CR5
denovo1045	3	9	UR,CR8,CR5
denovo1046	1	14	CO
denovo1047	1	1	CR5
denovo1048	1	1	CO
denovo1049	1	1	CR5
denovo105	1	4	CR5
denovo1051	1	2	CR8
denovo1052	1	1	CR5
denovo1053	1	1	CR5
denovo1054	2	11	CO,CR8
denovo1055	1	1	CO
denovo1056	1	3	CO

denovo1057	1	2 CO
denovo1058	1	1 CO
denovo1059	4	25 CO,UR,CR8,CR5
denovo106	2	7 CO,CR5
denovo1060	1	3 CR5
denovo1062	1	1 UR
denovo1063	1	3 CO
denovo1064	2	5 CR8,CR5
denovo1065	1	1 CO
denovo1066	1	1 CO
denovo1067	2	3 CO,CR5
denovo1068	1	2 CR5
denovo1069	1	1 CR5
denovo107	3	4 CO,CR8,CR5
denovo1070	1	1 CR8
denovo1071	1	5 CR8
denovo1072	1	1 CO
denovo1073	3	3 CO,CR8,CR5
denovo1074	1	1 CR8
denovo1075	1	1 CO
denovo1076	1	2 CR8
denovo1077	2	9 CO,CR8
denovo1078	1	2 CO
denovo1079	1	8 CR5
denovo108	1	1 CR5
denovo1080	1	5 CO
denovo1081	1	1 CO
denovo1082	1	2 CR8
denovo1083	1	4 CO
denovo1084	3	11 CO,UR,CR5
denovo1085	1	1 CR8
denovo1086	4	15 CO,UR,CR8,CR5
denovo1088	2	4 CO,CR5
denovo1089	1	1 CR8
denovo109	3	11 CO,CR8,CR5
denovo1090	2	7 CR8,CR5
denovo1091	1	1 CO
denovo1093	3	5 CO,UR,CR5
denovo1094	4	63 CO,UR,CR8,CR5
denovo1096	1	1 CR5
denovo1097	1	2 UR
denovo1098	1	1 CO
denovo1099	1	2 CR5
denovo11	1	1 CO
denovo110	1	1 UR
denovo1100	2	4 CO,UR
denovo1101	2	2 CO,CR8
denovo1102	1	1 CO
denovo1103	2	5 CO,CR5
denovo1104	1	1 CR5
denovo1105	1	1 CR5
denovo1107	1	1 CR5
denovo1108	2	3 CR8,CR5
denovo1109	1	83 CO
denovo111	1	1 CO
denovo1110	1	1 CR8
denovo1111	1	1 CR5
denovo1112	1	2 CO
denovo1113	1	1 CO
denovo1114	2	2 CO,CR8
denovo1115	1	2 CR5
denovo1116	1	1 CR8
denovo1117	1	1 CR5
denovo1118	1	1 CO
denovo1119	1	1 CO
denovo112	1	1 CR5
denovo1120	1	1 CR8

denovo1121	3	6	CO,UR,CR5
denovo1122	3	167	CO,UR,CR5
denovo1123	1	2	CR8
denovo1124	1	107	CO
denovo1125	1	1	CR8
denovo1127	1	1	CR5
denovo1128	1	1	CR5
denovo1129	1	1	CR5
denovo113	1	1	UR
denovo1130	1	1	CR8
denovo1131	2	3	CO,CR8
denovo1132	3	4	CO,UR,CR8
denovo1133	1	1	CO
denovo1134	1	2	CO
denovo1135	1	1	CO
denovo1136	1	1	CO
denovo1137	1	2	CR8
denovo1139	1	1	CR8
denovo114	3	8	CO,CR8,CR5
denovo1140	1	1	CO
denovo1141	1	1	CR8
denovo1142	1	2	UR
denovo1143	1	1	CO
denovo1144	1	1	CO
denovo1145	1	4	CR8
denovo1146	1	1	CR8
denovo1147	1	1	CR8
denovo1148	1	3	CR8
denovo1149	2	11	CO,CR5
denovo115	2	5	CO,CR5
denovo1150	3	9	CO,CR8,CR5
denovo1151	3	6	CO,UR,CR5
denovo1152	1	3	CR5
denovo1153	2	6	CO,CR8
denovo1154	2	3	CO,CR5
denovo1155	1	1	CR8
denovo1156	1	1	CR5
denovo1157	2	2	CO,CR5
denovo1158	1	1	UR
denovo1159	1	2	CR5
denovo116	2	3	CR8,CR5
denovo1160	1	1	CR8
denovo1161	3	7	UR,CR8,CR5
denovo1162	1	1	CO
denovo1164	1	2	CO
denovo1165	4	15	CO,UR,CR8,CR5
denovo1166	1	2	CO
denovo1167	1	2	CR5
denovo1168	1	2	CO
denovo1169	1	1	CO
denovo117	1	1	UR
denovo1170	2	2	CO,CR8
denovo1171	1	2	CR8
denovo1172	1	1	CR8
denovo1173	4	48	CO,UR,CR8,CR5
denovo1174	1	1	CO
denovo1175	1	2	CO
denovo1177	1	1	CR5
denovo1178	2	7	CO,CR5
denovo1179	1	4	CO
denovo118	1	1	CO
denovo1181	1	2	CO
denovo1182	1	1	CO
denovo1183	1	2	CO
denovo1184	3	11	CO,UR,CR8
denovo1185	1	1	CR5
denovo1186	1	1	CR5

denovo1187	1	3 CO
denovo1188	1	1 CR5
denovo119	1	1 CR8
denovo1190	1	1 UR
denovo1191	1	1 CR8
denovo1192	1	1 CR5
denovo1193	2	2 CO,UR
denovo1194	1	2 CO
denovo1195	2	2 CO,CR5
denovo1196	1	1 CR5
denovo1197	1	5 CO
denovo1198	1	1 CO
denovo1199	2	2 CO,CR8
denovo12	1	1 CO
denovo1200	1	1 CR8
denovo1201	2	4 CO,CR8
denovo1202	4	52 CO,UR,CR8,CR5
denovo1203	2	3 CO,UR
denovo1205	1	1 UR
denovo1206	1	1 CR8
denovo1207	1	1 CR8
denovo1208	1	1 CR5
denovo1209	1	1 CO
denovo1210	1	2 CR8
denovo1211	1	3 CO
denovo1212	1	1 UR
denovo1215	1	1 UR
denovo1216	1	1 CR8
denovo1217	3	6 CO,CR8,CR5
denovo1218	1	2 UR
denovo1219	1	1 CO
denovo122	1	1 CR5
denovo1220	1	1 UR
denovo1221	1	1 CO
denovo1222	1	2 CO
denovo1223	1	1 CR8
denovo1224	1	1 CO
denovo1225	1	1 CR8
denovo1226	1	4 CO
denovo1227	3	6 CO,CR8,CR5
denovo1228	1	3 UR
denovo1229	1	1 CO
denovo123	1	2 CR5
denovo1230	3	5 CO,UR,CR8
denovo1231	3	12 CO,CR8,CR5
denovo1232	1	1 CO
denovo1233	1	1 CR8
denovo1234	1	2 UR
denovo1235	3	3 CO,CR8,CR5
denovo1236	3	5 CO,CR8,CR5
denovo1237	1	1 CR8
denovo1238	1	2 CR8
denovo1239	1	2 CR5
denovo124	1	1 CR8
denovo1241	1	2 UR
denovo1242	1	13 CO
denovo1243	1	11 CO
denovo1244	1	3 CR5
denovo1245	1	1 CR5
denovo1246	2	2 CO,CR5
denovo1247	1	1 CR5
denovo1248	2	5 UR,CR8
denovo125	1	1 CO
denovo1250	1	3 UR
denovo1251	1	1 CO
denovo1252	1	2 CR5
denovo1253	4	34 CO,UR,CR8,CR5

denovo1254	1	2 UR
denovo1255	2	2 CR8,CR5
denovo1256	1	1 CO
denovo1257	4	44 CO,UR,CR8,CR5
denovo1258	1	2 CR5
denovo1259	1	4 CO
denovo126	2	4 CO,CR8
denovo1260	1	1 CR8
denovo1261	1	2 CR5
denovo1262	1	1 CO
denovo1263	1	3 CO
denovo1264	1	2 CO
denovo1265	1	2 CR8
denovo1266	1	1 CO
denovo1267	1	3 CR8
denovo1268	1	3 CO
denovo1269	1	1 CR8
denovo127	2	2 CO,CR8
denovo1270	1	1 CR8
denovo1271	1	3 CR8
denovo1272	1	1 UR
denovo1273	1	1 CR5
denovo1274	1	1 CO
denovo1276	1	1 CR8
denovo1277	3	8 CO,CR8,CR5
denovo1278	2	2 CO,CR5
denovo1279	3	7 CO,CR8,CR5
denovo128	1	2 CO
denovo1280	1	1 CR8
denovo1281	1	2 CO
denovo1282	1	1 CR5
denovo1283	1	2 CO
denovo1284	1	2 UR
denovo1285	1	2 CO
denovo1287	2	6 CR8,CR5
denovo1288	1	3 CR8
denovo1289	1	1 CR5
denovo129	1	1 CO
denovo1290	4	33 CO,UR,CR8,CR5
denovo1291	1	2 CR5
denovo1292	2	4 CO,CR8
denovo1293	2	3 CO,CR8
denovo1294	1	15 CO
denovo1295	1	1 CR5
denovo1297	1	1 CO
denovo1298	1	1 UR
denovo1299	1	1 CO
denovo13	1	4 CR8
denovo130	1	1 CR8
denovo1300	4	68 CO,UR,CR8,CR5
denovo1301	3	6 UR,CR8,CR5
denovo1302	1	2 UR
denovo1303	3	3 CO,CR8,CR5
denovo1304	1	1 CO
denovo1305	1	1 CO
denovo1306	1	1 CR5
denovo1307	1	8 CO
denovo1308	4	34 CO,UR,CR8,CR5
denovo1309	2	3 CO,CR8
denovo131	1	2 CR5
denovo1310	1	3 CO
denovo1311	3	15 CO,UR,CR5
denovo1312	1	1 CR8
denovo1313	2	2 CO,CR5
denovo1315	1	1 CR5
denovo1317	1	2 CR8
denovo1318	1	3 CR8

denovo1319	2	4 CO,CR8
denovo132	2	7 CO,CR5
denovo1320	1	1 CO
denovo1321	1	1 CR5
denovo1322	1	1 CR8
denovo1323	2	8 CO,CR8
denovo1324	3	6 CO,CR8,CR5
denovo1325	1	1 CO
denovo1326	1	2 CO
denovo1327	1	1 CO
denovo1328	1	3 CR8
denovo1329	2	2 CR8,CR5
denovo133	1	3 CR8
denovo1330	1	1 CR5
denovo1331	1	1 CO
denovo1332	1	1 CO
denovo1334	4	176 CO,UR,CR8,CR5
denovo1335	1	3 CR8
denovo1336	2	2 CO,CR8
denovo1337	1	1 CO
denovo1339	1	1 CR5
denovo134	4	77 CO,UR,CR8,CR5
denovo1341	4	24 CO,UR,CR8,CR5
denovo1342	2	2 CO,CR8
denovo1343	2	5 CO,CR5
denovo1344	1	1 CO
denovo1345	3	8 CO,CR8,CR5
denovo1346	4	62 CO,UR,CR8,CR5
denovo1347	3	5 UR,CR8,CR5
denovo1349	2	10 CO,CR8
denovo135	1	1 CR8
denovo1350	2	40 UR,CR5
denovo1351	2	5 CO,CR5
denovo1352	1	32 CO
denovo1353	1	2 CO
denovo1354	1	13 CO
denovo1355	1	1 CO
denovo1356	1	8 CO
denovo1357	2	3 UR,CR8
denovo1358	1	1 CO
denovo1359	1	1 CO
denovo136	1	1 CR5
denovo1360	1	1 CO
denovo1361	1	12 CO
denovo137	2	5 CO,CR5
denovo138	4	18 CO,UR,CR8,CR5
denovo14	1	1 CO
denovo140	1	1 CR8
denovo141	1	1 CO
denovo142	1	3 CO
denovo143	1	1 CO
denovo144	1	1 CO
denovo145	1	1 CR5
denovo147	1	3 CO
denovo148	2	2 CO,CR8
denovo149	3	4 CO,UR,CR8
denovo15	3	6 CO,CR8,CR5
denovo150	1	2 CO
denovo151	1	2 CO
denovo152	3	3 CO,CR8,CR5
denovo153	2	3 CO,CR8
denovo154	1	1 CO
denovo155	3	7 CO,CR8,CR5
denovo156	2	2 CO,CR5
denovo157	1	1 CR8
denovo158	2	4 CO,CR5
denovo159	2	11 CO,UR

denovo160	1	1 CR8
denovo161	1	2 CR8
denovo162	1	2 CR8
denovo163	1	1 CO
denovo164	1	1 CR8
denovo165	2	2 CO,CR5
denovo166	1	2 UR
denovo167	1	1 CO
denovo168	1	2 CR8
denovo169	2	2 CR8,CR5
denovo17	1	1 CR8
denovo170	2	3 CR8,CR5
denovo172	1	1 CO
denovo173	1	4 CO
denovo174	2	2 UR,CR5
denovo175	1	1 CR5
denovo176	1	2 CR8
denovo177	1	31 CO
denovo178	4	10 CO,UR,CR8,CR5
denovo179	1	1 CR8
denovo18	3	10 UR,CR8,CR5
denovo180	2	2 CR8,CR5
denovo181	1	1 CR5
denovo182	1	1 CR8
denovo183	4	332 CO,UR,CR8,CR5
denovo184	4	43 CO,UR,CR8,CR5
denovo185	4	84 CO,UR,CR8,CR5
denovo186	2	4 CR8,CR5
denovo187	4	16 CO,UR,CR8,CR5
denovo189	1	1 CR8
denovo19	1	16 CO
denovo190	1	1 CR5
denovo191	1	2 CR5
denovo192	1	1 CR8
denovo193	4	9 CO,UR,CR8,CR5
denovo194	1	1 CR5
denovo195	1	2 CR8
denovo196	1	1 CO
denovo197	1	2 CO
denovo198	1	1 CO
denovo199	1	1 UR
denovo2	2	2 CO,CR8
denovo20	1	5 CO
denovo200	1	42 CO
denovo201	2	3 UR,CR8
denovo202	2	4 CO,CR5
denovo203	1	2 CO
denovo204	1	1 CR5
denovo205	1	1 CO
denovo206	1	1 CR5
denovo207	4	13 CO,UR,CR8,CR5
denovo208	1	1 CR8
denovo209	1	1 CO
denovo21	1	1 CR5
denovo210	4	13 CO,UR,CR8,CR5
denovo211	1	1 CO
denovo212	1	1 CO
denovo213	4	10 CO,UR,CR8,CR5
denovo214	1	1 CR8
denovo215	1	10 CO
denovo216	1	2 CO
denovo217	1	3 CO
denovo218	3	11 CO,CR8,CR5
denovo219	3	5 CO,UR,CR5
denovo22	1	1 CO
denovo221	1	3 CR8
denovo222	1	1 CO

denovo223	1	2 CO
denovo224	1	1 UR
denovo225	1	3 CR8
denovo226	1	1 CO
denovo228	4	9 CO,UR,CR8,CR5
denovo229	2	8 CO,CR8
denovo23	2	2 CO,CR5
denovo231	1	1 CR8
denovo232	3	65 UR,CR8,CR5
denovo233	1	1 CO
denovo234	1	2 CR8
denovo235	1	5 CO
denovo236	3	7 CO,CR8,CR5
denovo237	1	115 CO
denovo239	1	3 CO
denovo24	1	1 CR8
denovo240	1	1 CO
denovo241	2	2 CO,CR5
denovo242	1	1 CO
denovo244	1	1 UR
denovo245	1	1 UR
denovo246	1	3 CR5
denovo247	1	1 CR5
denovo248	1	2 CR8
denovo249	1	1 CR5
denovo25	1	2 CR5
denovo250	1	3 CO
denovo251	1	2 CO
denovo252	2	8 UR,CR5
denovo253	1	2 UR
denovo254	1	2 CR8
denovo255	1	3 CR8
denovo256	1	1 CO
denovo258	1	1 CO
denovo259	1	1 CO
denovo26	1	1 CO
denovo261	1	1 CR5
denovo262	1	2 CO
denovo263	1	1 CO
denovo264	1	1 CR8
denovo265	1	3 CO
denovo266	2	6 CO,UR
denovo267	1	1 UR
denovo268	1	1 CO
denovo269	1	1 CR5
denovo27	1	1 CR8
denovo270	1	1 CR8
denovo271	1	1 UR
denovo272	3	18 CO,CR8,CR5
denovo273	1	2 CR8
denovo274	1	3 CR5
denovo275	1	1 CR8
denovo276	1	1 CO
denovo277	1	1 CR8
denovo279	1	1 CO
denovo28	1	1 CO
denovo280	1	2 CO
denovo281	1	3 CR5
denovo282	2	2 UR,CR5
denovo283	1	1 CO
denovo284	1	1 CR5
denovo285	1	1 CR8
denovo286	2	3 CO,CR8
denovo287	1	5 CO
denovo288	4	16 CO,UR,CR8,CR5
denovo289	1	3 UR
denovo29	1	1 CR5

denovo290	2	4 CO,CR8
denovo291	3	4 CO,UR,CR8
denovo292	1	1 CR8
denovo293	2	3 CO,UR
denovo294	3	3 CO,UR,CR5
denovo295	1	2 CR8
denovo296	3	15 CO,CR8,CR5
denovo297	1	1 CR5
denovo298	1	1 CR8
denovo299	1	1 CR8
denovo3	1	1 CO
denovo30	2	5 CO,UR
denovo301	1	2 CO
denovo302	1	1 CO
denovo303	1	1 CR8
denovo305	1	1 CR8
denovo306	1	3 UR
denovo308	1	1 CO
denovo309	1	1 CO
denovo31	1	1 CR8
denovo310	2	6 CO,CR5
denovo311	1	1 CO
denovo312	1	1 CO
denovo313	1	2 CR8
denovo314	2	5 CO,CR8
denovo315	2	13 CO,CR8
denovo316	1	1 CR5
denovo317	1	2 CO
denovo318	2	3 CO,UR
denovo319	2	4 CO,CR8
denovo32	1	1 CO
denovo320	1	3 CO
denovo321	1	2 CR5
denovo322	1	1 UR
denovo323	3	4 CO,UR,CR8
denovo324	2	8 CO,CR8
denovo325	2	5 CR8,CR5
denovo326	1	2 CO
denovo327	3	4 CO,CR8,CR5
denovo329	2	3 CO,CR5
denovo33	1	1 CO
denovo330	1	1 CR5
denovo331	1	2 CR8
denovo332	1	1 CR8
denovo333	1	2 CR8
denovo334	1	1 CR8
denovo335	3	7 CO,CR8,CR5
denovo336	1	1 CO
denovo337	1	4 CR8
denovo338	1	16 CO
denovo34	2	27 CO,CR8
denovo340	2	8 CR8,CR5
denovo343	1	3 CO
denovo344	1	2 CO
denovo345	1	1 CR5
denovo346	1	1 CR5
denovo347	2	2 CO,CR5
denovo348	1	1 CR8
denovo349	2	4 CR8,CR5
denovo35	1	12 CR8
denovo350	1	1 CR5
denovo352	1	1 CO
denovo353	4	71 CO,UR,CR8,CR5
denovo354	1	1 CO
denovo355	1	1 CR5
denovo356	1	1 CO
denovo357	2	7 CR8,CR5

denovo358	1	1 CO
denovo359	1	5 CR8
denovo36	1	1 CO
denovo360	1	3 CR8
denovo361	3	23 CO,UR,CR8
denovo362	1	1 CR8
denovo364	1	2 CO
denovo366	1	17 CO
denovo367	1	1 CR8
denovo368	1	1 CO
denovo369	1	2 CO
denovo37	1	1 CR8
denovo370	1	1 CR5
denovo371	2	2 CO,CR5
denovo372	1	2 CO
denovo373	1	1 CO
denovo374	2	7 CO,UR
denovo375	1	1 CO
denovo376	1	1 CR5
denovo377	3	5 CO,CR8,CR5
denovo378	1	2 CR8
denovo379	1	1 CR8
denovo38	1	9 CR8
denovo380	1	1 CR8
denovo381	1	1 CR5
denovo382	1	1 CO
denovo383	1	1 CR5
denovo384	2	7 CO,CR8
denovo385	1	3 CR5
denovo386	1	1 CO
denovo387	2	2 CR8,CR5
denovo388	1	3 UR
denovo389	2	3 CO,CR8
denovo390	3	9 CO,CR8,CR5
denovo391	1	1 UR
denovo392	1	1 CO
denovo393	4	47 CO,UR,CR8,CR5
denovo394	1	1 CO
denovo395	1	4 CO
denovo396	1	3 CO
denovo397	1	1 CO
denovo398	2	2 CO,CR8
denovo399	1	1 CO
denovo4	1	1 CO
denovo40	1	1 UR
denovo400	2	2 CO,CR8
denovo401	1	1 CO
denovo402	1	1 CR5
denovo403	1	12 CR5
denovo404	4	22 CO,UR,CR8,CR5
denovo405	1	1 CO
denovo406	1	1 CO
denovo407	1	4 CR8
denovo408	1	1 CR5
denovo409	2	4 CO,CR5
denovo41	1	1 CO
denovo410	1	4 CR8
denovo411	1	1 CO
denovo413	1	1 CO
denovo414	3	3 CO,CR8,CR5
denovo415	2	10 CO,CR5
denovo416	2	3 CO,CR8
denovo417	1	1 CO
denovo418	1	1 CO
denovo419	1	1 CO
denovo42	1	1 CR8
denovo420	1	1 CR8

denovo421	1	5	CR8
denovo423	1	1	CO
denovo424	1	2	CO
denovo425	1	28	CO
denovo426	1	1	CO
denovo427	1	4	CR5
denovo428	1	1	CO
denovo429	2	2	CO,UR
denovo43	1	1	UR
denovo430	1	4	CO
denovo431	3	13	CO,CR8,CR5
denovo432	2	6	CO,CR5
denovo433	1	1	CR8
denovo434	2	2	CO,CR8
denovo435	1	1	CO
denovo436	1	1	CR8
denovo437	2	8	CR8,CR5
denovo438	1	1	CR8
denovo439	1	2	UR
denovo44	1	1	CO
denovo440	1	1	CR5
denovo441	2	2	CO,CR5
denovo442	1	1	CO
denovo443	3	4	CO,UR,CR8
denovo444	1	3	CO
denovo445	1	2	CR8
denovo446	2	4	CR8,CR5
denovo447	1	2	CO
denovo448	1	4	CR5
denovo449	1	1	CR8
denovo45	3	5	CO,CR8,CR5
denovo450	1	5	CR8
denovo451	1	13	CO
denovo452	1	1	CO
denovo454	3	5	CO,UR,CR8
denovo455	1	1	CO
denovo456	1	4	CO
denovo457	2	5	CO,CR8
denovo458	3	3	CO,CR8,CR5
denovo459	1	3	CO
denovo46	1	1	CO
denovo460	1	1	CO
denovo461	1	1	CO
denovo462	1	1	CO
denovo463	1	2	CR8
denovo464	1	3	UR
denovo466	1	1	CO
denovo468	1	2	UR
denovo469	1	1	CO
denovo470	2	2	UR,CR5
denovo471	3	6	CO,CR8,CR5
denovo472	1	1	CR5
denovo473	1	2	CO
denovo474	1	1	CO
denovo475	1	1	CR8
denovo476	1	1	CR5
denovo477	1	1	CO
denovo478	1	1	CR5
denovo479	1	1	CO
denovo48	1	1	CR8
denovo480	1	1	CR5
denovo481	1	1	CR5
denovo482	1	1	UR
denovo483	1	1	CR8
denovo484	1	1	CR5
denovo485	3	3	UR,CR8,CR5
denovo486	1	1	CR5

denovo487	1	63	CR5
denovo488	1	7	CR8
denovo489	3	3	UR,CR8,CR5
denovo490	1	2	CO
denovo491	1	1	CR8
denovo492	1	4	CO
denovo493	4	176	CO,UR,CR8,CR5
denovo494	1	1	CR8
denovo495	2	2	CR8,CR5
denovo496	1	1	CR5
denovo497	1	1	CO
denovo498	1	10	CO
denovo499	2	1	CR8,CR5
denovo500	1	1	UR
denovo501	2	6	CO,CR5
denovo502	1	1	CO
denovo503	2	7	CR5
denovo504	1	2	CO,CR8
denovo505	4	7	CO,UR,CR8,CR5
denovo506	2	2	CO,CR5
denovo507	1	1	UR
denovo508	1	1	UR
denovo509	2	2	CO,CR8
denovo510	1	1	CR5
denovo511	1	1	CR5
denovo512	2	11	UR
denovo513	1	1	CO
denovo514	1	5	CR5
denovo515	1	2	CO
denovo516	3	1	CR8
denovo517	2	1	CR8
denovo518	1	1	CR8
denovo519	1	1	CR8
denovo520	2	1	CO
denovo521	1	4	CO,UR,CR5
denovo522	1	2	CR8,CR5
denovo523	1	1	CO
denovo524	2	1	CO,UR
denovo525	1	1	CO
denovo526	1	1	CO
denovo527	1	50	CO
denovo528	2	9	CR8,CR5
denovo529	1	1	CO
denovo530	1	1	CO
denovo531	4	22	CO,UR,CR8,CR5
denovo532	1	1	CO
denovo533	1	2	CR8
denovo534	1	1	CO
denovo535	1	2	CR8
denovo536	1	1	CO
denovo537	1	3	CO
denovo538	1	2	CR8
denovo539	1	1	CR5
denovo540	3	128	CO,CR8,CR5
denovo541	1	1	CR8
denovo542	4	208	CO,UR,CR8,CR5
denovo543	1	1	CO
denovo544	1	1	CR8
denovo545	1	1	CR8
denovo546	1	1	CO
denovo547	1	1	CO
denovo548	3	3	CO,UR,CR8
denovo549	1	1	CR5
denovo550	1	16	CO
denovo551	1	1	CR5
denovo553	1	1	CR5

denovo554	1	1 CO
denovo555	2	3 CR8,CR5
denovo557	1	1 CR8
denovo559	1	1 CR5
denovo56	4	7 CO,UR,CR8,CR5
denovo560	1	1 CO
denovo561	1	3 CR5
denovo562	1	1 CO
denovo563	1	1 CO
denovo564	1	2 CR8
denovo565	1	1 CR5
denovo566	1	3 CR5
denovo567	1	1 CR5
denovo568	2	7 UR,CR8
denovo569	1	1 CR5
denovo57	3	4 CO,UR,CR5
denovo570	1	1 CR5
denovo571	1	1 CO
denovo572	1	1 CR5
denovo573	1	1 CO
denovo574	2	2 CO,CR5
denovo575	2	3 CO,CR8
denovo576	1	3 CO
denovo577	1	1 CR8
denovo578	1	1 CR8
denovo579	1	1 CO
denovo58	2	4 CO,UR
denovo580	1	1 CO
denovo581	1	1 CO
denovo582	1	2 CO
denovo583	1	24 CO
denovo584	2	4 CO,CR8
denovo585	1	1 CO
denovo586	2	3 CO,CR5
denovo587	2	2 CO,CR5
denovo588	1	1 CR8
denovo589	1	1 CO
denovo59	1	2 CR5
denovo591	1	1 CR8
denovo592	4	28 CO,UR,CR8,CR5
denovo593	2	6 CO,CR8
denovo594	2	2 CR8,CR5
denovo595	3	3 UR,CR8,CR5
denovo596	2	3 CO,UR
denovo597	1	1 CO
denovo598	1	6 CO
denovo599	1	1 CR8
denovo6	1	7 CO
denovo60	2	7 CO,CR8
denovo600	4	55 CO,UR,CR8,CR5
denovo601	2	2 CR8,CR5
denovo602	1	2 CR8
denovo603	1	1 CR5
denovo604	1	1 CR5
denovo605	4	22 CO,UR,CR8,CR5
denovo606	1	1 CR8
denovo607	2	4 CO,CR5
denovo608	1	1 CR5
denovo609	1	36 CO
denovo61	2	3 UR,CR5
denovo610	1	3 CR5
denovo611	1	1 CO
denovo612	1	1 CR8
denovo613	1	1 CR5
denovo614	1	1 CO
denovo615	1	1 CO
denovo616	2	2 CR8,CR5

denovo617	1	2 CO
denovo618	2	5 CR8,CR5
denovo619	1	5 CO
denovo62	1	7 CO
denovo620	1	1 CR5
denovo621	2	4 CO,CR5
denovo622	1	2 CR8
denovo624	4	15 CO,UR,CR8,CR5
denovo625	1	1 CO
denovo626	2	5 CO,UR
denovo627	1	5 CO
denovo628	3	9 CO,UR,CR8
denovo629	1	2 CO
denovo63	4	78 CO,UR,CR8,CR5
denovo630	2	2 UR,CR8
denovo631	2	7 UR,CR5
denovo632	1	1 UR
denovo633	1	4 UR
denovo634	1	1 CR8
denovo635	1	1 UR
denovo636	1	2 CR8
denovo637	1	2 CO
denovo638	1	2 CR8
denovo639	4	7 CO,UR,CR8,CR5
denovo64	3	5 CO,UR,CR5
denovo640	2	2 UR,CR5
denovo641	2	3 CO,CR8
denovo642	1	1 UR
denovo643	1	1 CO
denovo644	1	1 CR8
denovo645	1	1 CR8
denovo646	1	1 CR8
denovo647	1	1 CO
denovo648	2	3 CR8,CR5
denovo649	1	1 CO
denovo65	3	11 CO,UR,CR8
denovo650	1	1 CR8
denovo651	2	2 CR8,CR5
denovo652	1	1 CR8
denovo653	1	1 CO
denovo654	2	7 CO,CR5
denovo655	4	107 CO,UR,CR8,CR5
denovo656	1	1 CR5
denovo657	3	12 CO,CR8,CR5
denovo658	2	3 CO,CR5
denovo66	1	6 CR8
denovo660	1	2 CR8
denovo661	4	14 CO,UR,CR8,CR5
denovo662	4	10 CO,UR,CR8,CR5
denovo663	2	6 CO,CR8
denovo664	1	1 CR5
denovo665	3	12 CO,UR,CR8
denovo666	3	6 UR,CR8,CR5
denovo667	4	6 CO,UR,CR8,CR5
denovo668	3	4 CO,UR,CR5
denovo669	1	1 CR5
denovo67	1	1 CR5
denovo672	1	1 UR
denovo673	1	1 CR5
denovo674	1	3 CO
denovo675	2	2 CO,CR5
denovo676	1	1 CO
denovo677	1	3 CO
denovo678	1	1 CR5
denovo679	3	5 CO,CR8,CR5
denovo68	1	1 CO
denovo680	1	1 CO

denovo681	1	8	CO
denovo683	1	2	CO
denovo684	1	1	CO
denovo685	1	1	CO
denovo686	1	1	CO
denovo687	1	2	CR8
denovo688	1	1	CR5
denovo689	1	4	CR8
denovo69	1	1	CO
denovo690	1	1	CO
denovo691	2	4	CO,CR8
denovo692	1	1	CR8
denovo693	2	3	CR8,CR5
denovo694	2	2	CR8,CR5
denovo695	1	2	CR8
denovo696	3	8	CO,CR8,CR5
denovo697	1	1	CO
denovo698	1	3	CR5
denovo699	4	55	CO,UR,CR8,CR5
denovo7	1	1	CO
denovo70	3	20	CO,CR8,CR5
denovo700	2	3	UR,CR8
denovo701	2	3	CO,CR5
denovo702	1	1	CO
denovo703	3	6	CO,CR8,CR5
denovo704	1	2	CO
denovo705	1	1	CO
denovo706	1	1	CR5
denovo707	1	1	CO
denovo708	1	17	CO
denovo709	4	39	CO,UR,CR8,CR5
denovo71	3	12	CO,CR8,CR5
denovo710	1	2	UR
denovo713	2	3	UR,CR5
denovo714	1	1	CR5
denovo715	1	2	CR5
denovo716	2	2	CO,CR5
denovo717	1	2	CO
denovo718	1	2	CO
denovo719	2	3	CO,CR5
denovo72	1	1	CO
denovo720	1	39	CO
denovo721	1	3	CO
denovo722	1	1	CR8
denovo723	1	1	CR5
denovo724	1	1	CR5
denovo725	2	5	CR8,CR5
denovo728	2	7	CO,CR5
denovo729	3	11	CO,UR,CR8
denovo73	2	2	CO,CR5
denovo730	1	1	CO
denovo731	1	1	CR8
denovo732	1	1	CR5
denovo733	2	6	CO,UR
denovo734	4	5	CO,UR,CR8,CR5
denovo735	1	2	CO
denovo736	1	1	CR5
denovo737	1	1	CO
denovo738	1	1	CO
denovo739	1	1	CR5
denovo74	3	13	CO,CR8,CR5
denovo740	2	4	CO,CR5
denovo742	2	2	CR8,CR5
denovo743	1	1	CO
denovo744	1	1	CO
denovo745	1	1	CO
denovo746	1	19	CR5

denovo747	1	1 CR5
denovo748	4	23 CO,UR,CR8,CR5
denovo749	1	1 CR5
denovo75	3	11 CO,UR,CR8
denovo750	1	1 CR5
denovo752	1	1 CR5
denovo753	1	2 CO
denovo754	1	1 CR8
denovo755	2	3 CO,CR8
denovo756	1	2 CR8
denovo758	2	3 CO,CR8
denovo759	2	3 CO,CR8
denovo76	2	3 CO,CR5
denovo760	2	2 UR,CR8
denovo761	2	3 CO,CR8
denovo762	1	1 CO
denovo763	3	10 CO,UR,CR5
denovo765	1	1 CO
denovo766	3	7 CO,CR8,CR5
denovo767	2	3 CR8,CR5
denovo768	1	1 CO
denovo769	1	1 CR5
denovo77	1	1 CR8
denovo770	4	235 CO,UR,CR8,CR5
denovo771	3	5 CO,CR8,CR5
denovo772	1	1 CO
denovo773	1	1 CR8
denovo774	2	2 CO,CR8
denovo775	1	1 CO
denovo776	1	4 CR5
denovo777	3	12 CO,UR,CR5
denovo778	1	1 UR
denovo779	1	2 CO
denovo78	1	1 CO
denovo780	1	2 CO
denovo781	1	1 CO
denovo782	1	1 CO
denovo783	3	6 CO,CR8,CR5
denovo784	1	3 CR8
denovo785	1	30 CO
denovo786	3	20 CO,CR8,CR5
denovo787	2	3 CO,CR8
denovo788	1	1 CO
denovo789	1	2 CR8
denovo79	4	62 CO,UR,CR8,CR5
denovo790	3	13 CO,CR8,CR5
denovo791	1	28 CO
denovo792	1	7 CO
denovo794	1	1 CO
denovo795	2	17 CO,CR8
denovo796	3	9 CO,CR8,CR5
denovo797	1	1 CR8
denovo798	1	1 UR
denovo799	3	6 CO,CR8,CR5
denovo80	1	1 CO
denovo800	1	1 CO
denovo801	2	6 CO,CR5
denovo802	1	1 CO
denovo803	4	24 CO,UR,CR8,CR5
denovo804	1	1 CO
denovo805	1	1 UR
denovo806	3	15 CO,CR8,CR5
denovo807	4	18 CO,UR,CR8,CR5
denovo808	1	1 UR
denovo809	1	2 CR5
denovo81	2	4 CR8,CR5
denovo810	1	1 CO

denovo811	1	2	CR8
denovo812	1	65	UR
denovo813	1	1	UR
denovo815	1	1	CO
denovo816	2	4	CO,CR5
denovo817	1	2	CO
denovo818	2	5	CR8,CR5
denovo819	1	1	CR8
denovo82	1	2	CO
denovo820	1	1	CR5
denovo821	3	10	CO,CR8,CR5
denovo822	1	2	CR5
denovo823	1	1	CR5
denovo824	1	14	CR8
denovo825	1	1	CR5
denovo826	1	1	CR5
denovo827	1	1	CO
denovo828	1	2	UR
denovo829	4	41	CO,UR,CR8,CR5
denovo83	2	4	UR,CR8
denovo830	1	3	CO
denovo831	3	3	CO,UR,CR8
denovo832	1	2	CR8
denovo833	1	2	CO
denovo834	3	18	CO,CR8,CR5
denovo836	4	31	CO,UR,CR8,CR5
denovo837	1	1	CO
denovo838	2	2	CO,UR
denovo839	1	1	CR5
denovo84	1	2	CR5
denovo840	1	1	UR
denovo841	3	12	CO,UR,CR5
denovo842	1	1	UR
denovo843	1	1	CR5
denovo844	4	10	CO,UR,CR8,CR5
denovo845	1	13	UR
denovo847	1	12	CO
denovo848	1	3	CR5
denovo849	1	1	CO
denovo85	1	1	CO
denovo850	2	4	CO,CR5
denovo851	1	8	CO
denovo852	1	2	CR8
denovo853	3	40	CO,CR8,CR5
denovo854	1	1	CR5
denovo855	1	1	CO
denovo856	1	1	CR5
denovo857	1	1	CR5
denovo858	2	45	CO,UR
denovo859	1	4	CO
denovo86	1	3	CO
denovo860	1	1	CO
denovo861	1	1	CR8
denovo862	2	7	CO,CR5
denovo863	1	1	CO
denovo864	1	1	CO
denovo865	1	2	CR8
denovo866	2	4	CO,CR8
denovo867	1	1	CR5
denovo868	4	14	CO,UR,CR8,CR5
denovo869	1	1	CR8
denovo87	2	3	CO,UR
denovo870	1	2	CR5
denovo871	1	1	CR8
denovo872	2	2	CO,CR5
denovo873	2	3	CO,CR5
denovo874	3	5	CO,UR,CR5

denovo875	1	2 CR8
denovo876	2	3 CO,CR8
denovo877	1	4 CO
denovo878	4	41 CO,UR,CR8,CR5
denovo879	1	1 CR8
denovo880	1	2 CR5
denovo880	4	32 CO,UR,CR8,CR5
denovo881	1	1 UR
denovo882	3	7 CO,UR,CR5
denovo883	1	4 CR8
denovo885	4	37 CO,UR,CR8,CR5
denovo886	3	12 UR,CR8,CR5
denovo887	2	5 CO,CR8
denovo888	1	2 UR
denovo889	1	5 CR5
denovo89	1	1 CR5
denovo890	1	1 CR5
denovo891	1	1 CR8
denovo892	1	1 CR8
denovo893	1	5 UR
denovo894	1	1 UR
denovo895	1	1 UR
denovo896	3	11 UR,CR8,CR5
denovo897	3	26 CO,CR8,CR5
denovo899	1	1 CO
denovo9	1	1 UR
denovo901	1	2 CO
denovo902	3	28 CO,CR8,CR5
denovo903	1	1 CO
denovo904	1	1 CR8
denovo905	3	3 CO,CR8,CR5
denovo906	1	1 CO
denovo907	2	3 CO,CR8
denovo908	1	1 CR8
denovo909	1	2 CR8
denovo91	3	6 CO,UR,CR5
denovo910	1	1 CO
denovo911	3	4 CO,UR,CR8
denovo912	1	2 CO
denovo913	1	1 CO
denovo915	1	3 CO
denovo916	1	1 CO
denovo917	1	1 CO
denovo918	3	10 CO,CR8,CR5
denovo919	1	3 CR8
denovo92	1	9 UR
denovo920	1	2 CO
denovo921	1	2 CR8
denovo922	3	3 CO,CR8,CR5
denovo923	2	2 CR8,CR5
denovo924	1	1 UR
denovo925	1	1 CR5
denovo926	1	1 CR5
denovo927	1	2 CR8
denovo928	3	28 CO,CR8,CR5
denovo929	2	2 CO,CR8
denovo93	1	11 CR8
denovo930	3	4 CO,CR8,CR5
denovo931	1	1 CO
denovo933	1	1 CR5
denovo934	2	2 CO,CR5
denovo935	4	22 CO,UR,CR8,CR5
denovo936	1	4 CO
denovo937	1	2 CR5
denovo938	2	8 CR8,CR5
denovo939	1	58 CO
denovo940	1	2 CO

denovo941	1	1 CO
denovo942	1	1 UR
denovo943	1	1 CR5
denovo944	1	48 CO
denovo945	1	2 CO
denovo946	2	8 CO,CR8
denovo947	3	11 CO,CR8,CR5
denovo948	1	3 CO
denovo949	2	6 CO,CR8
denovo95	4	8 CO,UR,CR8,CR5
denovo950	1	1 CR5
denovo951	1	1 CO
denovo952	1	1 CR8
denovo953	4	22 CO,UR,CR8,CR5
denovo954	1	1 CO
denovo955	4	6 CO,UR,CR8,CR5
denovo956	1	2 CR8
denovo957	1	6 CR8
denovo958	1	1 CO
denovo96	4	32 CO,UR,CR8,CR5
denovo960	2	2 CO,CR8
denovo961	1	1 CO
denovo963	3	10 CO,CR8,CR5
denovo964	4	14 CO,UR,CR8,CR5
denovo965	2	4 UR,CR5
denovo966	1	1 CO
denovo967	2	3 CO,CR5
denovo968	1	18 CO
denovo969	1	1 CO
denovo97	2	2 CO,CR5
denovo970	1	1 CO
denovo971	1	1 UR
denovo972	1	1 CO
denovo973	3	24 CO,CR8,CR5
denovo974	1	1 CR8
denovo975	1	1 CO
denovo977	3	9 CO,UR,CR8
denovo978	1	1 CR8
denovo979	2	7 CO,CR8
denovo98	1	3 CR8
denovo980	3	6 CO,UR,CR8
denovo981	3	19 CO,CR8,CR5
denovo982	1	2 CO
denovo983	1	1 CR5
denovo984	1	10 CO
denovo985	1	1 CO
denovo987	1	1 CO
denovo988	1	6 CO
denovo989	1	1 CO
denovo99	2	2 CO,CR8
denovo990	1	1 CO
denovo991	1	1 CR5
denovo992	1	2 CR8
denovo993	1	1 CO
denovo994	1	1 CO
denovo995	1	2 CO
denovo996	1	7 CO
denovo997	3	7 CO,UR,CR5
denovo998	1	1 CO
denovo999	2	3 UR,CR8
MID1	725	3619
MID2	234	834
MID3	486	1659
MID4	455	1837
MID5	0	0

Table S9.2. real edge table for pOTU network (based on pyrotagsequencing data) and visualization in Cytoscape

from	to	eweight	consensus_lin
MID1	denovo10	1	k_Bacteria:p_Planctomycetes:c_Planctomycetia:o_Pirellulales:f_Pirellulaceae:g_
MID1	denovo100	14	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Leucobacter
MID1	denovo1001	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID1	denovo1003	8	k_Bacteria:p_Chloroflexic_Thermomicrobia:o_JG30-KF-CM45:f_g_
MID1	denovo1004	1	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_Aeromicrobium
MID1	denovo1006	2	k_Bacteria:p_Bacteroidetes:c_Flavobacteriia:o_Flavobacteriales:f_[Weeksellaceae]:g_Chryseobacterium
MID1	denovo1007	1	k_Bacteria:p_Armatimonadetes:c_Armatimonadia:o_Armatimonadales:f_Armatimonadaceae:g_
MID1	denovo1008	3	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Micromonosporaceae:g_
MID1	denovo1009	1	k_Bacteria:p_Acidobacteria:c_[Chloracidobacteria]:o_RB41:f_Ellin6075:g_
MID1	denovo1010	1	k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Bacillaceae:g_Bacillus
MID1	denovo1012	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Bradyrhizobiaceae:g_
MID1	denovo1013	3	k_Bacteria:p_Cyanobacteria:c_Nostocophycideae:o_Nostocales:f_Nostocaceae
MID1	denovo1014	9	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Bradyrhizobiaceae:g_Balneimonas
MID1	denovo1016	1	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_[Ruminococcus]
MID1	denovo1017	3	k_Bacteria:p_Cyanobacteria:c_Synechococcophycideae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID1	denovo1018	3	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Peptoniphilus
MID1	denovo102	1	k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Oxalobacteraceae:g_
MID1	denovo1021	1	k_Bacteria:p_Acidobacteria:c_Solibacteres:o_Solibacterales:f_Solibacteraceae:g_
MID1	denovo1023	7	k_Bacteria:p_Planctomycetes:c_Planctomycetia:o_Pirellulales:f_Pirellulaceae:g_
MID1	denovo1024	6	k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_
MID1	denovo1027	13	k_Bacteria:p_Cyanobacteria:c_Nostocophycideae:o_Nostocales:f_Nostocaceae:g_Nostoc
MID1	denovo1030	1	k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_g_
MID1	denovo1032	1	k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_g_
MID1	denovo1035	1	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Micrococcaceae:g_
MID1	denovo1037	2	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Corynebacteriaceae:g_Corynebacterium
MID1	denovo104	1	k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Alteromonadales:f_Alteromonadaceae:g_Cellvibrio
MID1	denovo1040	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rickettsiales:f_Rickettsiaceae:g_Rickettsia
MID1	denovo1042	2	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_
MID1	denovo1046	14	k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_
MID1	denovo1048	1	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID1	denovo1054	3	k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Bacillaceae:g_Bacillus
MID1	denovo1055	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae
MID1	denovo1056	3	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_Propionicimonas
MID1	denovo1057	2	k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_Iamiaceae:g_Iamia
MID1	denovo1058	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Acetobacteraceae:g_
MID1	denovo1059	10	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Microbacterium
MID1	denovo106	4	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae
MID1	denovo1063	3	k_Bacteria:p_Planctomycetes:c_Phycisphaerae:o_WD2101:f_g_
MID1	denovo1065	1	k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes:o_Gemmatimonadales:f_g_
MID1	denovo1066	1	k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes:o_f_g_
MID1	denovo1067	2	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Beljerinckiaceae:g_
MID1	denovo107	2	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID1	denovo1072	1	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID1	denovo1073	1	k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Stenotrophomonas
MID1	denovo1075	1	k_Bacteria:p_Acidobacteria:c_[Chloracidobacteria]:o_DS-100:f_g_
MID1	denovo1077	8	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Devosia
MID1	denovo1078	2	k_Bacteria:p_Acidobacteria:c_Acidobacteria-6:o_iii1-15:f_g_
MID1	denovo1080	5	k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes:o_Gemmatimonadales:f_g_
MID1	denovo1081	1	k_Bacteria:p_Cyanobacteria:c_4C0d-2:o_SM1D11:f_g_
MID1	denovo1083	4	k_Bacteria:p_Chloroflexic_Thermomicrobia:o_JG30-KF-CM45:f_g_
MID1	denovo1084	6	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
MID1	denovo1086	3	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_
MID1	denovo1088	1	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Kineosporiaceae:g_
MID1	denovo109	1	k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Enterobacterales:f_Enterobacteriaceae
MID1	denovo1091	1	k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_
MID1	denovo1093	3	k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID1	denovo1094	7	k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Aerococcaceae:g_Facklamia
MID1	denovo1098	1	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_
MID1	denovo11	1	k_Bacteria:p_Acidobacteria:c_Solibacteres:o_Solibacterales:f_g_
MID1	denovo1100	2	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID1	denovo1101	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID1	denovo1102	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_
MID1	denovo1103	4	k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes:o_Gemmatimonadales:f_g_

MID1	denovo1109	83	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae
MID1	denovo111	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phyllobacteriaceae
MID1	denovo1112	2	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Brucellaceae
MID1	denovo1113	1	k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID1	denovo1114	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Bradyrhizobiaceae:g_
MID1	denovo1118	1	k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Paenibacillaceae:g_
MID1	denovo1119	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Amaricoccus
MID1	denovo1121	3	k_Bacteria:p_Bacteroidetes:c_Flavobacteriia:o_Flavobacteriales:f_[Weeksellaceae]:g_Chryseobacterium
MID1	denovo1122	99	k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Legionellales:f_Coxiellaceae:g_Rickettsiella
MID1	denovo1124	107	k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Rhodocyclales:f_Rhodocyclaceae:g_Thauera
MID1	denovo1131	1	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Sangubacteraceae:g_Sangubacter
MID1	denovo1132	1	k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Enterococcaceae:g_Vagococcus
MID1	denovo1133	1	k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Plano coccaceae:g_Sporosarcina
MID1	denovo1134	2	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_
MID1	denovo1135	1	k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobales:f_g_
MID1	denovo1136	1	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Parvimonas
MID1	denovo114	3	k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Chlorophyta:f_g_
MID1	denovo1140	1	k_Bacteria:p_[Thermi]:c_Deinococcio:_Deinococcales:f_Deinococcaceae:g_Deinococcus
MID1	denovo1143	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Brucellaceae
MID1	denovo1144	1	k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes
MID1	denovo1149	6	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_Methylobacterium
MID1	denovo115	3	k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes:o_Gemmatimonadales:f_g_
MID1	denovo1150	3	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Roseburia
MID1	denovo1151	1	k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Plano coccaceae:g_Solibacillus
MID1	denovo1153	3	k_Bacteria:p_Cyanobacteria:c_Nostocophycideae:o_Stigonematales:f_Rivulariaceae:g_Calothrix
MID1	denovo1154	2	k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Alcaligenaceae:g_Pigmentiphaga
MID1	denovo1157	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Amaricoccus
MID1	denovo1162	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_
MID1	denovo1164	2	k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_
MID1	denovo1165	2	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Anaerococcus
MID1	denovo1166	2	k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Sinobacteraceae:g_
MID1	denovo1168	2	k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Myxococcales:f_g_
MID1	denovo1169	1	k_Bacteria:p_Cyanobacteria:c_Synechococcophycideae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID1	denovo1170	1	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Dermacoccaceae:g_Dermacoccus
MID1	denovo1173	39	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Paracoccus
MID1	denovo1174	1	Unassigned
MID1	denovo1175	2	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Hyphomicrobium
MID1	denovo1178	4	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID1	denovo1179	4	k_Bacteria:p_Cyanobacteria:c_Synechococcophycideae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID1	denovo118	1	k_Bacteria:p_Acidobacteria:c_Solibacteres:o_Solibacteres:f_g_
MID1	denovo1181	2	k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_g_
MID1	denovo1182	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Acetobacteraceae:g_
MID1	denovo1183	2	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_g_
MID1	denovo1184	3	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phyllobacteriaceae:g_
MID1	denovo1187	3	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Acetobacteraceae:g_
MID1	denovo1193	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID1	denovo1194	2	k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobales:f_C111:g_
MID1	denovo1195	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phyllobacteriaceae:g_Aminobacter
MID1	denovo1197	5	k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Burkholderiaceae:g_
MID1	denovo1198	1	k_Bacteria:p_Cyanobacteria:c_Synechococcophycideae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID1	denovo1199	1	k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobales:f_C111:g_
MID1	denovo12	1	k_Bacteria:p_Bacteroidetes:c_Sphingobacteriia:o_Sphingobacteriales:f_g_
MID1	denovo1201	2	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rickettsiales:f_Rickettsiaceae:g_Rickettsia
MID1	denovo1202	14	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_Methylobacterium
MID1	denovo1203	2	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_Methylobacterium
MID1	denovo1209	1	k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Paenibacillaceae:g_
MID1	denovo1211	3	k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Dokdonella
MID1	denovo1217	2	k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Chlorophyta:f_g_
MID1	denovo1219	1	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID1	denovo1221	1	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_Ruminococcus
MID1	denovo1222	2	k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Alcaligenaceae:g_
MID1	denovo1224	1	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Micromonosporaceae:g_Virgisporangium
MID1	denovo1226	4	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_Friedmanniella
MID1	denovo1227	3	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Rhizobiaceae
MID1	denovo1229	1	k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Flammeovirgaceae
MID1	denovo1230	1	k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_Comamonas
MID1	denovo1231	5	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium

MID1	denovo1232
MID1	denovo1235
MID1	denovo1236
MID1	denovo1242
MID1	denovo1243
MID1	denovo1246
MID1	denovo125
MID1	denovo1251
MID1	denovo1253
MID1	denovo1256
MID1	denovo1257
MID1	denovo1259
MID1	denovo126
MID1	denovo1262
MID1	denovo1263
MID1	denovo1264
MID1	denovo1266
MID1	denovo1268
MID1	denovo127
MID1	denovo1274
MID1	denovo1277
MID1	denovo1278
MID1	denovo1279
MID1	denovo128
MID1	denovo1281
MID1	denovo1283
MID1	denovo1285
MID1	denovo129
MID1	denovo1290
MID1	denovo1292
MID1	denovo1293
MID1	denovo1294
MID1	denovo1297
MID1	denovo1299
MID1	denovo1300
MID1	denovo1303
MID1	denovo1304
MID1	denovo1305
MID1	denovo1307
MID1	denovo1308
MID1	denovo1309
MID1	denovo1310
MID1	denovo1311
MID1	denovo1313
MID1	denovo1319
MID1	denovo132
MID1	denovo1320
MID1	denovo1323
MID1	denovo1324
MID1	denovo1325
MID1	denovo1326
MID1	denovo1327
MID1	denovo1331
MID1	denovo1332
MID1	denovo1334
MID1	denovo1336
MID1	denovo1337
MID1	denovo134
MID1	denovo1341
MID1	denovo1342
MID1	denovo1343
MID1	denovo1344
MID1	denovo1345
MID1	denovo1346
MID1	denovo1349
MID1	denovo1351
MID1	denovo1352

1 k\_Bacteria:p\_Bacteroidetes:c\_Flavobacteria:o\_Flavobacterales:f\_Flavobacteriaceae:g\_Flavobacterium  
 1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Clostridiaceae:g\_Clostridium  
 1 k\_Bacteria:p\_Bacteroidetes:c\_Cytophagia:o\_Cytophagales:f\_Cytophagaceae:g\_Rhodocytophaga  
 13 k\_Bacteria:p\_Proteobacteria:c\_Gamma proteobacteria:o\_Xanthomonadales:f\_Xanthomonadaceae:g\_Lysobacter  
 11 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Phylobacteriaceae  
 1 k\_Bacteria:p\_Acidobacteria:c\_Acidobacteria-6:o\_ii1-15:f\_mb2424:g\_  
 1 k\_Bacteria:p\_Acidobacteria:c\_Chloracidobacteria:o\_RB41:f\_g\_  
 1 k\_Bacteria:p\_Actinobacteria:c\_Thermoleophilia:o\_Solirubrobacterales:f\_g\_  
 11 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Rhizobiaceae:g\_Agrobacterium  
 1 k\_Bacteria:p\_Bacteroidetes:c\_Cytophagia:o\_Cytophagales:f\_Cytophagaceae:g\_  
 13 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonadales:f\_Sphingomonadaceae  
 4 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonadales:f\_Sphingomonadaceae:g\_Sphingobium  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Hyphomicrobiaceae:g\_Rhodoplanes  
 1 k\_Bacteria:p\_Proteobacteria:c\_Deltaproteobacteria:o\_Myxococcales:f\_g\_  
 3 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_[Tissierellaceae]:g\_  
 2 k\_Bacteria:p\_Proteobacteria:c\_Betaproteobacteria:o\_Burkholderiales:f\_Comamonadaceae  
 1 k\_Bacteria:p\_Cyanobacteria:c\_Oscillatoriophycideae:o\_Chroococcales:f\_Xenococcaceae:g\_  
 3 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonadales:f\_Sphingomonadaceae:g\_  
 1 k\_Bacteria:p\_Proteobacteria:c\_Gamma proteobacteria:o\_Pseudomonadales:f\_Pseudomonadaceae:g\_  
 1 k\_Bacteria:p\_Bacteroidetes:c\_Flavobacteria:o\_Flavobacterales:f\_[Weeksellaceae]:g\_  
 1 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Bacillales:f\_Paenibacillaceae:g\_Paenibacillus  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Methylobacteriaceae:g\_Methylobacterium  
 1 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Lactobacillales  
 2 k\_Bacteria:p\_Armatimonadetes:c\_Armatimonadia:o\_Armatimonadales:f\_Armatimonadaceae:g\_  
 2 k\_Bacteria:p\_Actinobacteria:c\_Acidimicrobia:o\_Acidimicrobiales:f\_C111:g\_  
 2 k\_Bacteria:p\_Chlorobic:c\_OPB56:o\_f\_g\_  
 2 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Lachnospiraceae:g\_Blautia  
 1 k\_Bacteria:p\_Bacteroidetes:c\_Flavobacteria:o\_Flavobacterales:f\_Flavobacteriaceae:g\_Gelidibacter  
 17 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Dermabacteraceae:g\_Brachybacterium  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodospirillales:f\_Acetobacteraceae:g\_  
 1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_g\_  
 15 k\_Bacteria:p\_Proteobacteria:c\_Betaproteobacteria:o\_Burkholderiales:f\_Alcaligenaceae:g\_  
 1 k\_Bacteria:p\_Cyanobacteria:c\_Chloroplast:o\_Chlorophyta:f\_Trebouxiophyceae  
 1 Unassigned  
 38 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Nocardioidaceae:g\_Friedmanniella  
 1 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Propionibacteriaceae:g\_  
 1 k\_Bacteria:p\_Chloroflexi:c\_Chloroflexi:o\_Chloroflexales:f\_Chloroflexaceae  
 1 k\_Bacteria:p\_Gemmatimonadetes:c\_Gemmatimonadetes:o\_Gemmatimonadales:f\_g\_  
 8 k\_Bacteria:p\_Cyanobacteria:c\_Oscillatoriophycideae:o\_Oscillatoriace:f\_Phormidiaceae:g\_Phormidium  
 9 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Lactobacillales:f\_Streptococcaceae:g\_Streptococcus  
 2 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodospirillales:f\_Rhodospirillaceae:g\_  
 3 k\_Bacteria:p\_Proteobacteria:c\_Betaproteobacteria:o\_Burkholderiales:f\_Comamonadaceae:g\_  
 7 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Clostridiaceae:g\_  
 1 k\_Bacteria:p\_Acidobacteria:c\_Solibacteres:o\_Solibacterales:f\_g\_  
 3 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonadales:f\_Sphingomonadaceae:g\_Kaistobacter  
 6 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonadales:f\_Erythrobacteraceae:g\_  
 1 k\_Bacteria:p\_Acidobacteria:c\_Acidobacteria:o\_Acidobacteriales:f\_Acidobacteriaceae:g\_  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Methylocystaceae:g\_  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodospirillales:f\_Acetobacteraceae:g\_  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Hyphomicrobiaceae:g\_Devosia  
 2 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Aurantimonadaceae:g\_  
 1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Peptococcaceae:g\_  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Beijerinckiaceae:g\_  
 1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Ruminococcaceae:g\_Oscillospira  
 60 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Lactobacillales:f\_Streptococcaceae:g\_Streptococcus  
 1 k\_Bacteria:p\_Actinobacteria:c\_Acidimicrobia:o\_Acidimicrobiales:f\_C111:g\_  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonadales:f\_Sphingomonadaceae:g\_Sphingomonas  
 9 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Lactobacillales:f\_g\_  
 1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_[Tissierellaceae]:g\_Anærococcus  
 1 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Intrasporangiaceae  
 3 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonadales:f\_Sphingomonadaceae:g\_Sphingomonas  
 1 k\_Bacteria:p\_Bacteroidetes:c\_Cytophagia:o\_Cytophagales:f\_Cytophagaceae:g\_Spirosoma  
 4 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Bacillales:f\_Alicyclobacillaceae:g\_Alicyclobacillus  
 40 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Lactobacillales:f\_Streptococcaceae:g\_Lactococcus  
 1 k\_Bacteria:p\_Proteobacteria:c\_Deltaproteobacteria:o\_Myxococcales:f\_Nannocystaceae:g\_Nannocystis  
 4 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Methylocystaceae:g\_  
 32 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodobacterales:f\_Rhodobacteraceae

MID1	denovo1353	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Caldicoprobacteraceae:g_Caldicoprobacter
MID1	denovo1354	13 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Intrasporangiaceae:g_
MID1	denovo1355	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Eubacteriaceae:g_Alkalibacter
MID1	denovo1356	8 k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacteriales:f_Flavobacteriaceae:g_Aequorivita
MID1	denovo1358	1 k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacteriales:f_Flavobacteriaceae:g_Aequorivita
MID1	denovo1359	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID1	denovo1360	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Pseudomonadales:f_Moraxellaceae:g_
MID1	denovo1361	12 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Leucobacter
MID1	denovo137	2 k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Chlorophyta:f_
MID1	denovo138	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_Skermanella
MID1	denovo14	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Clostridium
MID1	denovo141	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Neisseriales:f_Neisseriaceae:g_
MID1	denovo142	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_
MID1	denovo143	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_
MID1	denovo144	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Propionibacteriaceae:g_Luteococcus
MID1	denovo147	3 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Dorea
MID1	denovo148	1 k_Bacteria:p_Cyanobacteria:c_Synechococcophycideae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID1	denovo149	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Cellulomonadaceae:g_Cellulomonas
MID1	denovo15	3 k_Bacteria:p_[Thermi]:c_Deinococco:Deinococcales:f_Trueperaceae:g_Truepera
MID1	denovo150	2 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Marinicellales:f_Marinicellaceae:g_
MID1	denovo151	2 k_Bacteria:p_FBP:c_o:f_g_
MID1	denovo152	1 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f_
MID1	denovo153	2 k_Bacteria:p_Chlorobi:c_SJA-28:o_f_g_
MID1	denovo154	1 k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes:o_Gemmatimonadas:f_
MID1	denovo155	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID1	denovo156	1 k_Bacteria:p_Acidobacteria:c_Chloracidobacteria:o_RB41:f_g_
MID1	denovo158	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadas:f_Sphingomonadaceae:g_
MID1	denovo159	10 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Propionibacteriaceae:g_Microlunatus
MID1	denovo163	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Paracoccus
MID1	denovo165	1 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Spirobaillales:f_g_
MID1	denovo167	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_S24-7:g_
MID1	denovo172	1 k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Gemmatales:f_Gemmataceae:g_
MID1	denovo173	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_
MID1	denovo177	31 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Nitrosomonadas:f_Nitrosomonadaceae
MID1	denovo178	2 k_Bacteria:p_Bacteroidetes:c_Rhodothermi:o_Rhodothermales:f_Rhodothermaceae:g_Rubricoccus
MID1	denovo183	168 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae
MID1	denovo184	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Tissierellaceae:g_Peptoniphilus
MID1	denovo185	2 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID1	denovo187	4 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_
MID1	denovo19	16 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Porphyrimonadaceae:g_
MID1	denovo193	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_Phenylbacterium
MID1	denovo196	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_
MID1	denovo197	2 k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacteriales:f_Weeksellaceae:g_Wautersiella
MID1	denovo198	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Leucobacter
MID1	denovo2	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Oxalobacteraceae:g_
MID1	denovo20	5 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadas:f_Sphingomonadaceae:g_
MID1	denovo200	42 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rhodobacter
MID1	denovo202	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Devosia
MID1	denovo203	2 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID1	denovo205	1 k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacteriales:f_Weeksellaceae:g_
MID1	denovo207	4 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobales:f_C111:g_
MID1	denovo209	1 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_Chroococcidiopsis
MID1	denovo210	5 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID1	denovo211	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phyllobacteriaceae:g_
MID1	denovo212	1 k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Streptophyta:f_g_
MID1	denovo213	5 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Luteimonas
MID1	denovo215	10 k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Pirellulales:f_Pirellulaceae:g_
MID1	denovo216	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_Propionicimonas
MID1	denovo217	3 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_g_
MID1	denovo218	5 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Oscillatoriace:f_Phormidiaceae:g_Phormidium
MID1	denovo219	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID1	denovo22	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_
MID1	denovo222	1 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_MiZ46:f_g_
MID1	denovo223	2 k_Bacteria:p_FBP:c_o:f_g_
MID1	denovo226	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID1	denovo228	5 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadas:f_Sphingomonadaceae:g_Sphingomonas
MID1	denovo229	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g_

MID1	denovo23	1 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_
MID1	denovo233	1 k_Bacteria:p_Bacteroidetes:c_[Sapropirae]:o_[Sapropirales]:f_Chitinophagaceae:g_
MID1	denovo235	5 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Erythrobacteraceae:g_
MID1	denovo236	4 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Geodermatophilaceae:g_
MID1	denovo237	115 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_
MID1	denovo239	3 k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes:o_f_g_
MID1	denovo240	1 k_Bacteria:p_Acidobacteria:c_Solibacteres:o_Solibacterales:f_g_
MID1	denovo241	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_g_
MID1	denovo242	1 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_AKIW874:g_
MID1	denovo250	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylocystaceae
MID1	denovo251	2 k_Bacteria:p_Cyanobacteria:c_Synechococcophycideae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID1	denovo256	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Propionibacteriaceae:g_
MID1	denovo258	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Oribacterium
MID1	denovo259	1 k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes:o_Gemmatimonadales:f_g_
MID1	denovo26	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Brucellaceae
MID1	denovo262	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_Phenylbacterium
MID1	denovo263	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Rhodocyclales:f_Rhodocyclaceae:g_Dechloromonas
MID1	denovo265	3 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Oscillatoriales:f_Phormidiaceae
MID1	denovo266	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Erythrobacteraceae
MID1	denovo268	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Agrococcus
MID1	denovo272	8 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID1	denovo276	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_g_
MID1	denovo279	1 k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID1	denovo28	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
MID1	denovo280	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Alkaliphilus
MID1	denovo283	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Peptostreptococcaceae:g_Tepidibacter
MID1	denovo286	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Frankiaceae:g_
MID1	denovo287	5 k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacteriales:f_Flavobacteriaceae:g_Arenibacter
MID1	denovo288	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
MID1	denovo290	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_
MID1	denovo291	2 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_Delftia
MID1	denovo293	1 k_Bacteria:p_Acidobacteria:c_Solibacteres:o_Solibacterales:f_g_
MID1	denovo294	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Peptoniphilus
MID1	denovo296	3 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_WAL_1855D
MID1	denovo3	1 k_Bacteria:p_Armatimonadetes:c_Armatimonadia:o_Armatimonadales:f_Armatimonadaceae:g_
MID1	denovo30	4 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Bogoriellaceae:g_Georgenia
MID1	denovo301	2 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Porphymonadaceae:g_
MID1	denovo302	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Aurantimonadaceae:g_
MID1	denovo308	1 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cyclobacteriaceae:g_
MID1	denovo309	1 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_C111:g_
MID1	denovo310	1 k_Bacteria:p_Cyanobacteria:c_Synechococcophycideae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID1	denovo311	1 k_Bacteria:p_Chloroflexic_Gitt-GS-136:o_f_g_
MID1	denovo312	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID1	denovo314	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Beijerinckiaceae:g_
MID1	denovo315	6 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Rhizobiaceae:g_Rhizobium
MID1	denovo317	2 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_g_
MID1	denovo318	2 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_
MID1	denovo319	3 k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacteriales:f_[Weeksellaceae]:g_Chryseobacterium
MID1	denovo32	1 k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes:o_Gemmatimonadales:f_g_
MID1	denovo320	3 k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes:o_Gemmatimonadales:f_g_
MID1	denovo323	1 k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Pseudomonadales:f_Pseudomonadaceae:g_Pseudomonas
MID1	denovo324	5 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Devosia
MID1	denovo326	2 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Flammeovirgaceae:g_
MID1	denovo327	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Pseudonocardiaceae:g_Pseudonocardia
MID1	denovo329	1 k_Bacteria:p_Acidobacteria:c_Acidobacteria:o_Acidobacteriales:f_Acidobacteriaceae:g_
MID1	denovo33	1 k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Lysobacter
MID1	denovo335	4 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Micrococcaceae:g_Arthrobacter
MID1	denovo336	1 Unassigned
MID1	denovo338	16 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Paracoccus
MID1	denovo34	26 k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Dokdonella
MID1	denovo343	3 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_
MID1	denovo344	2 k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID1	denovo347	1 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_
MID1	denovo352	1 k_Bacteria:p_Cyanobacteria:c_Nostocophycideae:o_Nostocales:f_Nostocaceae:g_Nostoc
MID1	denovo353	40 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID1	denovo354	1 k_Bacteria:p_[Thermi]:c_Deinococci:o_Deinococcales:f_Deinococcaceae:g_Deinococcus
MID1	denovo356	1 k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Alteromonadales:f_g_

MID1	denovo358	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_Methylobacterium
MID1	denovo36	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_
MID1	denovo361	2 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID1	denovo364	2 k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Chlorophyta:f:_g_
MID1	denovo366	17 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_
MID1	denovo368	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f:_g_
MID1	denovo369	2 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Myxococcales:f:_g_
MID1	denovo371	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f:_g_
MID1	denovo372	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Zymomonas
MID1	denovo373	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Alcaligenaceae:g_
MID1	denovo374	6 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Cryococcus
MID1	denovo375	1 k_Bacteria:p_Acidobacteria:c_[Chloracidobacteria]:o_RB41:f_Ellin6075:g_
MID1	denovo377	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_Propionicimonas
MID1	denovo382	1 k_Bacteria:p_FBP:c:_o:f:_g_
MID1	denovo384	6 k_Bacteria:p_Fusobacteria:c_Fusobacteriia:o_Fusobacteriales:f_Fusobacteriaceae:g_Fusobacterium
MID1	denovo386	1 k_Bacteria:p_Chloroflexic_Anaerolineae:o_Anaerolineales:f_Anaerolineaceae:g_Anaerolinea
MID1	denovo389	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylcytostaceae:g_
MID1	denovo390	7 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Frigibacterium
MID1	denovo392	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g_
MID1	denovo393	19 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Lysobacter
MID1	denovo394	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Gallionellales:f_Gallionellaceae:g_Gallionella
MID1	denovo395	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g_
MID1	denovo396	3 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Myxococcales:f_Polyangiaceae:g_
MID1	denovo397	1 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_EB1017:g_
MID1	denovo398	1 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Rhodocytophaga
MID1	denovo399	1 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Myxococcales:f:_g_
MID1	denovo4	1 k_Bacteria:p_Armatimonadetes:c_Armatimonadia:o_Armatimonadales:f_Armatimonadaceae:g_
MID1	denovo400	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_Methylobacterium
MID1	denovo401	1 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Myxococcales:f:_g_
MID1	denovo404	9 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Enterococcaceae:g_Enterococcus
MID1	denovo405	1 k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Gemmatales:f_Gemmataceae:g_Gemmata
MID1	denovo406	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingobium
MID1	denovo409	3 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nakamuraellaceae:g_
MID1	denovo41	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_
MID1	denovo411	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Neisseriales:f_Neisseriaceae:g_
MID1	denovo413	1 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_
MID1	denovo414	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
MID1	denovo415	1 k_Bacteria:p_Cyanobacteria:c_Synechococcophycideae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID1	denovo416	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Porphyromonadaceae:g_Candidatus_Azobacteroides
MID1	denovo417	1 k_Bacteria:p_Fibrobacteres:c_Fibrobacteria:o_258ds10:f:_g_
MID1	denovo418	1 Unassigned
MID1	denovo419	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_Skermanella
MID1	denovo423	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f:_g_
MID1	denovo424	2 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Spirosoma
MID1	denovo425	28 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID1	denovo426	1 k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacteriales:f_Flavobacteriaceae:g_Gillisia
MID1	denovo428	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Neisseriales:f_Neisseriaceae:g_Kingella
MID1	denovo429	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Clostridium
MID1	denovo430	4 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_Microthrixaceae:g_
MID1	denovo431	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_Methylobacterium
MID1	denovo432	4 k_Bacteria:p_Cyanobacteria:c_Synechococcophycideae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID1	denovo434	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Microbacterium
MID1	denovo435	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardiaceae:g_Rhodococcus
MID1	denovo44	1 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Hymenobacter
MID1	denovo441	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phyllobacteriaceae:g_Aminobacter
MID1	denovo442	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f:_g_
MID1	denovo443	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Bradyrhizobiaceae:g_
MID1	denovo444	3 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Porphyromonadaceae:g_Porphyromonas
MID1	denovo447	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Rhodoplanes
MID1	denovo45	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Kineosporiaceae:g_
MID1	denovo451	13 k_Bacteria:p_[Thermi]:c_Deinococco:Deinococci:o_Deinococcales:f_Trueperaceae:g_B-42
MID1	denovo452	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
MID1	denovo454	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Kaistobacter
MID1	denovo455	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Pasteurellales:f_Pasteurellaceae:g_Haemophilus
MID1	denovo456	4 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]
MID1	denovo457	4 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f:_g_
MID1	denovo458	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f:_g_

MID1	denovo459	3 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Propionibacteriaceae:g_
MID1	denovo46	1 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Spirosoma
MID1	denovo460	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Propionibacteriaceae:g_
MID1	denovo461	1 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f:_g_
MID1	denovo462	1 k_Bacteria:p_Chloroflexi:c_Thermomicrobia:o_JG30-KF-CM45:f:_g_
MID1	denovo466	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales
MID1	denovo469	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_
MID1	denovo471	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Devosia
MID1	denovo473	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Christensenellaceae:g_
MID1	denovo474	1 Unassigned
MID1	denovo477	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID1	denovo479	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae
MID1	denovo49	2 k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Pirellulales:f_Pirellulaceae:g_
MID1	denovo491	4 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Myxococcales:f_Haliangiaceae:g_
MID1	denovo492	65 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycidae:o_Chroococcales:f_Xenococcaceae:g_Chroococcidiopsis
MID1	denovo496	1 k_Bacteria:p_Chloroflexi:c_Anaerolineae:o_SBR1031:f_A4b:g_
MID1	denovo497	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Devosia
MID1	denovo498	5 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f:_g_
MID1	denovo5	5 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID1	denovo50	1 Unassigned
MID1	denovo501	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_Propionicimonas
MID1	denovo502	2 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Leuconostocaceae:g_Leuconostoc
MID1	denovo504	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirilaceae:g_
MID1	denovo508	1 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Spirosoma
MID1	denovo512	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Enterobacteriales:f_Enterobacteriaceae:g_Erwinia
MID1	denovo513	5 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Aurantimonadaceae:g_
MID1	denovo515	1 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Gaiellales:f_Gaiellaceae:g_
MID1	denovo516	4 k_Bacteria:p_Gemmimonadetes:c_Gemm-3:o_f:_g_
MID1	denovo52	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Bradyrhizobiaceae:g_
MID1	denovo520	1 k_Bacteria:p_Acidobacteria:c_[Chloracidobacteria]:o_RB41:f_Ellin6075:g_
MID1	denovo522	1 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Syntrophobacterales:f_Syntrophobacteraceae:g_
MID1	denovo524	2 k_Bacteria:p_Acidobacteria:c_[Chloracidobacteria]:o_RB41:f_Ellin6075:g_
MID1	denovo525	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Geodermatophilaceae:g_Modestobacter
MID1	denovo526	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Beijerinckiaceae:g_
MID1	denovo527	50 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_
MID1	denovo529	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae
MID1	denovo53	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Devosia
MID1	denovo530	3 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID1	denovo531	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID1	denovo533	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Cellulomonadaceae:g_Demequina
MID1	denovo535	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
MID1	denovo537	3 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Proteinilasticum
MID1	denovo540	123 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Bacillaceae:g_Bacillus
MID1	denovo542	9 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Finegoldia
MID1	denovo543	1 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Planoococcaceae
MID1	denovo546	1 k_Bacteria:p_Armatimonadetes:c_Armatimonadia:o_FW68:f:_g_
MID1	denovo547	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phyllobacteriaceae:g_
MID1	denovo548	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID1	denovo551	16 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Alteromonadales:f_Alteromonadaceae:g_Marinobacter
MID1	denovo554	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_
MID1	denovo56	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID1	denovo560	1 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f:_g_
MID1	denovo562	1 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f:_g_
MID1	denovo563	1 k_Bacteria:p_Bacteroidetes:c_Flavobacteriia:o_Flavobacteriales:f_Cryomorphaceae:g_Cryomorpha
MID1	denovo57	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae
MID1	denovo571	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_
MID1	denovo573	1 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_
MID1	denovo574	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylcytostaceae:g_
MID1	denovo575	2 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Gaiellales:f:_g_
MID1	denovo576	3 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Aerococcaceae:g_Facklamia
MID1	denovo579	1 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Spirosoma
MID1	denovo588	1 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID1	denovo580	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae
MID1	denovo581	1 k_Bacteria:p_Bacteroidetes:c_Flavobacteriia:o_Flavobacteriales:f_[Weeksellaceae]:g_Chryseobacterium
MID1	denovo582	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Kaistobacter
MID1	denovo583	24 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_
MID1	denovo584	3 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_Microthrixaceae:g_

MID1	denovo585	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Hyphomicrobium
MID1	denovo586	1 k_Bacteria:p_Planctomycetes:c_Planctomycetia:o_Gemmatales:f_Isosphaeraceae:g_
MID1	denovo587	1 k_Bacteria:p_Cyanobacteria:c_Nostocophyceae
MID1	denovo589	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae
MID1	denovo592	20 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_
MID1	denovo593	5 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_g_
MID1	denovo596	2 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Bacillaceae:g_Geobacillus
MID1	denovo597	1 k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes:o_Gemmatimonadales:f_g_
MID1	denovo598	6 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_
MID1	denovo6	7 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rhodobacter
MID1	denovo60	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_
MID1	denovo600	28 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophyceae:o_Oscillatoriales:f_Phormidiaceae:g_Phormidium
MID1	denovo605	9 k_Bacteria:p_Firmicutes:c_Bacilli:o_Gemellales:f_Gemellaceae:g_Gemella
MID1	denovo607	3 Unassigned
MID1	denovo609	36 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Intrasporangiaceae:g_
MID1	denovo611	1 k_Bacteria:p_Cyanobacteria:c_Synechococcophyceae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID1	denovo614	1 k_Bacteria:p_Acidobacteria:c_[Chloracidobacteria]:o_RB41:f_g_
MID1	denovo615	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Clostridium
MID1	denovo617	2 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Alcaligenaceae:g_
MID1	denovo619	5 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobales:f_g_
MID1	denovo62	7 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingomonas
MID1	denovo621	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
MID1	denovo624	11 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID1	denovo625	1 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Dyadobacter
MID1	denovo626	4 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophyceae:o_Chroococcales:f_g_
MID1	denovo627	5 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Propionibacteriaceae:g_
MID1	denovo628	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Arenimonas
MID1	denovo629	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylocystaceae:g_
MID1	denovo63	7 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID1	denovo637	2 k_Bacteria:p_Cyanobacteria:c_Nostocophyceae:o_Nostocales:f_Nostocaceae
MID1	denovo639	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Geodermatophilaceae:g_Modestobacter
MID1	denovo64	2 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae
MID1	denovo641	1 k_Bacteria:p_Acidobacteria:c_Solibacteres:o_Solibacterales:f_g_
MID1	denovo643	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Kaistobacter
MID1	denovo647	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_f_g_
MID1	denovo649	1 k_Bacteria:p_Cyanobacteria:c_Synechococcophyceae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID1	denovo65	3 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Exiguobacteraceae:g_Exiguobacterium
MID1	denovo653	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Bradyrhizobiaceae:g_
MID1	denovo654	5 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales
MID1	denovo655	3 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Anaerococcus
MID1	denovo657	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Actobacteraceae:g_
MID1	denovo658	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Pseudonocardiaceae:g_Pseudonocardia
MID1	denovo661	7 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_g_
MID1	denovo662	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID1	denovo663	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_Methylobacterium
MID1	denovo665	4 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID1	denovo667	2 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f_g_
MID1	denovo668	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Neisseriales:f_Neisseriaceae:g_Neisseria
MID1	denovo674	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Beijerinckiaceae:g_
MID1	denovo675	1 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Spirosoma
MID1	denovo676	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Cellulomonadaceae:g_Actinotalea
MID1	denovo677	3 k_Bacteria:p_Cyanobacteria:c_Nostocophyceae:o_Nostocales:f_Nostocaceae:g_Nostoc
MID1	denovo679	2 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Bacillaceae:g_Bacillus
MID1	denovo68	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Rhodoplanes
MID1	denovo680	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_g_
MID1	denovo681	8 k_Bacteria:p_Bacteroidetes:c_Flavobacteriia:o_Flavobacteriales:f_Flavobacteriaceae:g_Aequorivita
MID1	denovo683	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_
MID1	denovo684	1 k_Bacteria:p_Acidobacteria:c_[Chloracidobacteria]:o_RB41:f_Ellin6075:g_
MID1	denovo685	1 k_Bacteria:p_Proteobacteria:c_TA18:o_CV90:f_g_
MID1	denovo686	1 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Spirobacterales:f_g_
MID1	denovo69	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_
MID1	denovo690	1 k_Bacteria:p_Proteobacteria:c_Epsilonproteobacteria:o_Campylobacteriales:f_Campylobacteraceae:g_Campylobacter
MID1	denovo691	2 k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes:o_Gemmatimonadales:f_Gemmatimonadaceae:g_Gemmatimonas
MID1	denovo696	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Propionibacteriaceae:g_Propionibacterium
MID1	denovo697	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g_
MID1	denovo699	36 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g_
MID1	denovo7	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_

MID1	denovo70
MID1	denovo701
MID1	denovo702
MID1	denovo703
MID1	denovo704
MID1	denovo705
MID1	denovo707
MID1	denovo708
MID1	denovo709
MID1	denovo71
MID1	denovo716
MID1	denovo717
MID1	denovo718
MID1	denovo719
MID1	denovo72
MID1	denovo720
MID1	denovo721
MID1	denovo728
MID1	denovo729
MID1	denovo73
MID1	denovo730
MID1	denovo733
MID1	denovo734
MID1	denovo735
MID1	denovo737
MID1	denovo738
MID1	denovo74
MID1	denovo740
MID1	denovo743
MID1	denovo744
MID1	denovo745
MID1	denovo748
MID1	denovo75
MID1	denovo753
MID1	denovo755
MID1	denovo758
MID1	denovo759
MID1	denovo76
MID1	denovo761
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MID1	denovo785
MID1	denovo786
MID1	denovo787
MID1	denovo788
MID1	denovo79
MID1	denovo790
MID1	denovo791
MID1	denovo792
MID1	denovo794
MID1	denovo795
MID1	denovo796

4 k\_Bacteria:p\_Cyanobacteria:c\_Nostocophycideae:o\_Nostocales:f\_Nostocaceae:g\_Cylindrospermopsis  
1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodospirillales:f\_Acetobacteraceae:g\_Roseomonas  
1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Lachnospiraceae:g\_Coprococcus  
1 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Bacillales:f\_Staphylococcaceae:g\_Macrococcus  
2 k\_Bacteria:p\_Cyanobacteria:c\_Nostocophycideae:o\_Nostocales:f\_Nostocaceae:g\_<br>  
1 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Bacillales:f\_Planoococcaceae:g\_<br>  
1 k\_Bacteria:p\_Bacteroidetes:c\_Bacteroidia:o\_Bacteroidales:f\_Bacteroidaceae:g\_Bacteroides  
17 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_[Tissierellaceae]:g\_<br>  
6 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Pseudomonadales:f\_Moraxellaceae:g\_Enhydrobacter  
4 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Hyphomicrobiaceae:g\_Devosia  
1 k\_Bacteria:p\_Bacteroidetes:c\_Cytophagia:o\_Cytophagales:f\_Cytophagaceae:g\_Hymenobacter  
2 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Caulobacterales:f\_Caulobacteraceae:g\_<br>  
2 k\_Bacteria:p\_Acidobacteria:c\_[Chloracidobacteria]:o\_RB41:f\_Ellin6075:g\_<br>  
2 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_g\_<br>  
1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodospirillales:f\_g\_<br>  
39 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Lactobacillales:f\_Aerococcaceae:g\_Facklamia  
3 k\_Bacteria:p\_Bacteroidetes:c\_[Saprospirae]:o\_[Saprospirales]:f\_Chitinophagaceae:g\_<br>  
5 k\_Bacteria:p\_Plantomycetes:c\_Plantomycetia:o\_Gemmatales:f\_Isosphaeraceae:g\_<br>  
1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Phyllobacteriaceae  
1 k\_Bacteria:p\_FBP:c\_o:f\_g\_<br>  
1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_BD7-3:f\_g\_<br>  
5 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Xanthomonadales:f\_Xanthomonadaceae:g\_<br>  
1 k\_Bacteria:p\_Proteobacteria:c\_Betaproteobacteria:o\_Neisseriales:f\_Neisseriaceae:g\_Neisseria  
2 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Gracilibacteraceae:g\_<br>  
1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_RF32:f\_g\_<br>  
1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonadas:f\_Erythrobacteraceae:g\_<br>  
1 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Corynebacteriaceae:g\_Corynebacterium  
1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Lachnospiraceae:g\_<br>  
1 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Xanthomonadales:f\_Xanthomonadaceae:g\_<br>  
1 k\_Bacteria:p\_Proteobacteria:c\_Betaproteobacteria:o\_Burkholderiales:f\_Comamonadaceae:g\_Comamonas  
2 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonadas:f\_g\_<br>  
1 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Xanthomonadales:f\_Xanthomonadaceae:g\_Dokdonella  
1 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_g\_<br>  
2 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonadas:f\_Sphingomonadaceae:g\_Sphingomonas  
2 k\_Bacteria:p\_Chloroflexi:c\_Ellin6529:o\_f\_g\_<br>  
2 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodobacterales:f\_Rhodobacteraceae:g\_Paracoccus  
1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Veillonellaceae:g\_Selenomonas  
3 k\_Bacteria:p\_Actinobacteria:c\_Thermoleophilia:o\_Gaiellales:f\_Gaiellaceae:g\_<br>  
1 k\_Bacteria:p\_Actinobacteria:c\_Thermoleophilia:o\_Solirubrobacterales:f\_g\_<br>  
3 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Microbacteriaceae:g\_Agrococcus  
1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Hyphomicrobiaceae:g\_Devosia  
122 k\_Bacteria:p\_Cyanobacteria:c\_Oscillatoriophycideae:o\_Chroococcales:f\_Xenococcaceae:g\_<br>  
1 k\_Bacteria:p\_Armatimonadetes:c\_Armatimonadia:o\_Armatimonadales:f\_Armatimonadaceae:g\_<br>  
1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodobacterales:f\_Rhodobacteraceae:g\_<br>  
1 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Xanthomonadales:f\_Sinobacteraceae:g\_<br>  
1 k\_Bacteria:p\_Proteobacteria:c\_Betaproteobacteria:o\_Rhodocylales:f\_Rhodocyclaceae:g\_Azoarcus  
6 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Ruminococcaceae:g\_<br>  
2 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Bacillales:f\_Bacillaceae:g\_Bacillus  
1 k\_Bacteria:p\_Actinobacteria:c\_Thermoleophilia:o\_Solirubrobacterales:f\_Conexibacteraceae:g\_<br>  
2 k\_Bacteria:p\_Cyanobacteria:c\_Oscillatoriophycideae:o\_Oscillatoriaceae:f\_Phormidiaceae:g\_Phormidium  
30 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_g\_<br>  
10 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales  
1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_[Mogibacteriaceae]:g\_Mogibacterium  
1 k\_Bacteria:p\_Proteobacteria:c\_Betaproteobacteria:o\_Nitrosomonadales:f\_Nitrosomonadaceae:g\_<br>  
1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_[Tissierellaceae]:g\_Anaerococcus  
10 k\_Bacteria:p\_Cyanobacteria:c\_Chloroplast:o\_Streptophyta:f\_g\_<br>  
28 k\_Bacteria:p\_Actinobacteria:c\_Acidimicrobia:o\_Acidimicrobiales:f\_g\_<br>  
7 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_g\_<br>  
1 k\_Bacteria:p\_Gemmatimonadetes:c\_Gemmatimonadetes:o\_Gemmatimonadales:f\_g\_<br>  
16 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_g\_<br>  
3 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodobacterales:f\_Rhodobacteraceae:g\_Rubellimicrobium

MID1	denovo799	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Coprococcus
MID1	denovo80	1 k_Bacteria:p_Cyanobacteria:c_Synechococcophyceae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID1	denovo800	1 k_Bacteria:p_Armatimonadetes:c_Armatimonadia:o_Armatimonadales:f_Armatimonadaceae:g_
MID1	denovo801	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID1	denovo802	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Acetobacteraceae:g_
MID1	denovo803	17 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Sporichthyaceae:g_
MID1	denovo804	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rickettsiales:f:_g_
MID1	denovo806	2 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Bacillaceae:g_Bacillus
MID1	denovo807	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID1	denovo810	1 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Gaiellales:f_Gaiellaceae:g_
MID1	denovo815	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID1	denovo816	2 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Carnobacteriaceae:g_Desenzia
MID1	denovo817	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Actinomycetaceae:g_Actinomyces
MID1	denovo82	2 k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes:o_Gemmatimonadales:f:_g_
MID1	denovo821	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylcytostaceae:g_
MID1	denovo827	1 k_Bacteria:p_Proteobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidae:g_Nocardioides
MID1	denovo829	18 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Carnobacteriaceae:g_Carnobacterium
MID1	denovo830	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Paracoccus
MID1	denovo831	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Propropionibacteriaceae:g_
MID1	denovo833	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_Faecalibacterium
MID1	denovo834	11 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingomonas
MID1	denovo836	16 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae
MID1	denovo837	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Clostridium
MID1	denovo838	1 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f:_g_
MID1	denovo841	7 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f:_g_
MID1	denovo844	4 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_
MID1	denovo847	12 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_C111:g_
MID1	denovo849	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Ellin329:f:_g_
MID1	denovo85	1 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Myxococcales:f_Nannocystaceae:g_Plesiocystis
MID1	denovo850	3 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Oscillatoriaceae:f_Phormidiaceae:g_Phormidium
MID1	denovo851	8 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Devosia
MID1	denovo853	15 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f:_g_
MID1	denovo855	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae
MID1	denovo858	44 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidae:g_Propionicimonas
MID1	denovo859	4 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Anaerostipes
MID1	denovo86	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Erythrobacteraceae:g_
MID1	denovo860	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f:_g_
MID1	denovo862	3 k_Bacteria:p_FBP:c:_f:_g_
MID1	denovo863	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Intrasporangiaceae:g_
MID1	denovo864	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Legionellales:f:_g_
MID1	denovo866	1 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Spirobacillales:f:_g_
MID1	denovo868	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Anærococcus
MID1	denovo87	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_Phenylbacterium
MID1	denovo872	1 k_Bacteria:p_Acidobacteria:c_ii1-8:o_32-20:f:_g_
MID1	denovo873	1 k_Bacteria:p_Cyanobacteria:c_Synechococcophyceae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_
MID1	denovo874	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Amaricoccus
MID1	denovo876	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Mycobacteriaceae:g_Mycobacterium
MID1	denovo877	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_
MID1	denovo878	17 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Streptococcaceae:g_Streptococcus
MID1	denovo880	6 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_Ruminococcus
MID1	denovo882	4 k_Bacteria:p_Cyanobacteria:c_Synechococcophyceae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID1	denovo885	14 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_
MID1	denovo887	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Beijerinckiaceae:g_
MID1	denovo897	4 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Corynebacteriaceae:g_Corynebacterium
MID1	denovo899	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Devosia
MID1	denovo901	2 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Spirosoma
MID1	denovo902	20 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_
MID1	denovo903	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID1	denovo905	1 k_Bacteria:p_Acidobacteria:c_Acidobacteria:6:o_ii1-15:f_mb2424:g_
MID1	denovo906	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Oxalobacteraceae:g_
MID1	denovo907	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Sinobacteraceae:g_
MID1	denovo91	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Brevundimonas
MID1	denovo910	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID1	denovo911	2 k_Bacteria:p_Acidobacteria:c_[Chloracidobacteria]:o_RB41:f_Ellin6075:g_
MID1	denovo912	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Anaerospora
MID1	denovo913	1 k_Bacteria:p_Acidobacteria:c_Solibacteres:o_Solibacteres:f:_g_
MID1	denovo915	3 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f:_g_

MID1	denovo916
MID1	denovo917
MID1	denovo918
MID1	denovo920
MID1	denovo922
MID1	denovo928
MID1	denovo929
MID1	denovo930
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MID2	denovo1015
MID2	denovo1025
MID2	denovo1036
MID2	denovo1037
MID2	denovo1038
MID2	denovo1041
MID2	denovo1043

1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Ruminococcaceae:g\_

1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodobacterales:f\_Rhodobacteraceae

5 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Microbacteriaceae:g\_Rathayibacter

2 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Xanthomonadales:f\_Xanthomonadaceae:g\_

1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Bradyrhizobiaceae

8 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodospirillales:f\_Aacetobacteraceae:g\_

1 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Corynebacteriaceae:g\_Corynebacterium

1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodospirillales:f\_Aacetobacteraceae:g\_

1 k\_Bacteria:p\_Cyanobacteria:c\_o:\_f:g\_

1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodobacterales:f\_Rhodobacteraceae:g\_Rhodobacter

18 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Xanthomonadales:f\_Xanthomonadaceae:g\_Thermomonas

4 k\_Bacteria:p\_Cyanobacteria:c\_Oscillatoriophycideae:o\_Oscillatoriales:f\_Phormidiaceae:g\_Phormidium

58 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Clostridiaceae:g\_

2 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodobacterales:f\_Rhodobacteraceae:g\_Paracoccus

1 k\_Bacteria:p\_Bacteroidetes:c\_Flavobacteria:o\_Flavobacteriales:f\_Flavobacteriaceae:g\_Aequorivita

48 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Propionibacteriaceae:g\_

2 k\_Bacteria:p\_Cyanobacteria:c\_Synechococcophycideae:o\_Pseudanabaenales:f\_Pseudanabaenaceae:g\_Leptolyngbya

3 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Xanthomonadales:f\_Xanthomonadaceae:g\_Lysobacter

7 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Ruminococcaceae:g\_

3 k\_Bacteria:p\_Cyanobacteria:c\_Oscillatoriophycideae:o\_Oscillatoriales:f\_Phormidiaceae:g\_Phormidium

1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Caulobacterales:f\_Caulobacteraceae:g\_

2 k\_Bacteria:p\_Bacteroidetes:c\_Flavobacteria:o\_Flavobacteriales:f\_[Weeksellaceae]:g\_Chryseobacterium

1 k\_Bacteria:p\_Acidobacteria:c\_[Chloracidobacteria]:o\_RB41:f\_Ellin6075:g\_

9 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Microbacteriaceae:g\_Curtobacterium

1 k\_Bacteria:p\_Proteobacteria:c\_Betaproteobacteria:o\_SC-I-84:f:g\_

1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Methylobacteriaceae:g\_Methylobacterium

1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Phyllobacteriaceae:g\_

5 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_[Tissierellaceae]:g\_Anaoerococcus

1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodospirillales:f\_Rhodospirillaceae:g\_

1 k\_Bacteria:p\_Proteobacteria:c\_Deltaproteobacteria:o\_GMD14H09:f:g\_

6 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonades:f\_Sphingomonadaceae:g\_

3 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Pseudomonades:f\_Moraxellaceae:g\_Acinetobacter

1 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Intrasporangiaceae:g\_Arsenicicoccus

2 k\_Bacteria:p\_Gemmatimonadetes:c\_Gemmatimonadetes:o\_Gemmatimonadales:f:g\_

18 k\_Bacteria:p\_Bacteroidetes:c\_Flavobacteria:o\_Flavobacteriales:f\_Flavobacteriaceae:g\_Gelidibacter

1 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Xanthomonadales:f\_Xanthomonadaceae:g\_Lysobacter

1 k\_Bacteria:p\_Gemmatimonadetes:c\_Gemm-3:o\_f:g\_

1 k\_Bacteria:p\_Proteobacteria:c\_Betaproteobacteria:o\_Burkholderiales:f\_Comamonadaceae:g\_Hylemonella

1 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Lactobacillales:f\_Aerococcaceae:g\_

10 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Bacillales:f\_Staphylococcaceae:g\_Jeotgalicoccus

1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonades:f\_Sphingomonadaceae:g\_Sphingomonas

6 k\_Bacteria:p\_Cyanobacteria:c\_Nostocophycideae:o\_Stigonematales:f\_Rivulariaceae:g\_Calothrix

3 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonades:f\_Sphingomonadaceae:g\_Sphingomonas

3 k\_Bacteria:p\_Actinobacteria:c\_Thermoleophilia:o\_Solirubrobacterales:f\_Solirubrobacteraceae:g\_

10 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Lactobacillales:f\_Leuconostocaceae:g\_

2 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Phylobacteriaceae:g\_

10 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_[Tissierellaceae]:g\_Tissierella\_Soehngenia

1 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Pseudomonades:f\_Pseudomonadaceae:g\_

1 k\_Bacteria:p\_Proteobacteria:c\_Betaproteobacteria:o\_Burkholderiales:f\_Burkholderiaceae:g\_Burkholderia

6 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Lactobacillales:f\_Enterococcaceae:g\_Enterococcus

1 k\_Bacteria:p\_Actinobacteria:c\_Acidimicrobia:o\_Acidimicrobiales:f\_EB1017:g\_

1 k\_Bacteria:p\_WPS-2:c:o\_f:g\_

1 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Microbacteriaceae:g\_Yonghaparkia

1 k\_Bacteria:p\_Gemmatimonadetes:c\_Gemmatimonadetes:o\_Gemmatimonadales:f:g\_

1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodobacterales:f\_Rhodobacteraceae

2 k\_Bacteria:p\_Cyanobacteria:c\_Oscillatoriophycideae:o\_Oscillatoriales:f\_Phormidiaceae:g\_Phormidium

7 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Intrasporangiaceae:g\_

4 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonades:f\_Erythrobacteraceae:g\_

1 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Nocardioidaceae:g\_

2 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Bradyrhizobiaceae:g\_Balneimonas

1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_[Tissierellaceae]:g\_1-68

10 k\_Bacteria:p\_Cyanobacteria:c\_Nostocophycideae:o\_Nostocales:f\_Scytonemataceae:g\_

1 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Bacillales:f\_Bacillaceae

3 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Corynebacteriaceae:g\_Corynebacterium

1 k\_Bacteria:p\_Proteobacteria:c\_Betaproteobacteria:o\_Burkholderiales

1 k\_Bacteria:p\_Nitrospirae:c\_Nitrospira:o\_Nitrospirales:f\_Nitrospiraceae:g\_

11 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Bacillales:f\_Planoconnococcaceae

MID2	denovo1044
MID2	denovo1045
MID2	denovo1059
MID2	denovo1062
MID2	denovo1084
MID2	denovo1086
MID2	denovo1093
MID2	denovo1094
MID2	denovo1097
MID2	denovo110
MID2	denovo1100
MID2	denovo1121
MID2	denovo1122
MID2	denovo113
MID2	denovo1132
MID2	denovo1142
MID2	denovo1151
MID2	denovo1158
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MID2	denovo117
MID2	denovo1173
MID2	denovo1184
MID2	denovo1190
MID2	denovo1193
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MID2	denovo166
MID2	denovo174
MID2	denovo178
MID2	denovo18
MID2	denovo183
MID2	denovo184
MID2	denovo185

1	k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales:f_Lachnospiraceae:g_Coprococcus
1	k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales:f_Micrococcaceae:g_Kocuria
3	k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales:f_Microbacteriaceae:g_Microbacterium
1	k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria:o_Legionellales:f_Coxiellaceae:g_
1	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
2	k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales:f_Nocardioidaceae:g_
1	k_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
2	k_Bacteria;p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Aerococcaceae:g_Facklamia
2	k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
1	k_Bacteria;p_Proteobacteria;c_Betaproteobacteria:o_Procabacteriales:f_Procabacteriaceae:g_
2	k_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales:f_Lachnospiraceae:g_
1	k_Bacteria;p_Bacteroidetes;c_Flavobacteriia:o_Flavobacteriales:f_[Weeksellaceae]:g_Chryseobacterium
66	k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria:o_Legionellales:f_Coxiellaceae:g_Rickettsiella
1	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Rhizobiales:f_Rhizobiaceae:g_
1	k_Bacteria;p_Firmicutes;c_Bacilli:o_Bacillales:f_Planoctococcaceae:g_Solibacillus
1	k_Bacteria;p_Firmicutes:c_Clostridia;o_Clostridiales:f_Lachnospiraceae:g_Epulopiscium
3	k_Bacteria;p_Firmicutes:c_Bacilli:o_Bacillales:f_Staphylococcaceae:g_Salinicoccus
2	k_Bacteria;p_Firmicutes:c_Clostridia;o_Clostridiales:f_[Tissierellaceae]:g_Anærococcus
1	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Amaricoccus
1	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Paracoccus
1	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Rhizobiales:f_Phyllobacteriaceae:g_
1	k_Bacteria;p_Actinobacteria;c_Actinobacteria;o_Actinomycetales:f_Micrococcaceae:g_Kocuria
1	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
2	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_Methylobacterium
1	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_Methylobacterium
1	k_Bacteria;p_Actinobacteria;c_Acidimicrobia:o_Acidimicrobiales:f_
1	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rhodobacter
1	k_Bacteria;p_Proteobacteria;c_Deltaproteobacteria:o_Myxococcales:f_
2	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingobium
1	k_Bacteria;p_Bacteroidetes:c_[Saprositae]:o_[Saprositae]:f_Saprositaceae:g_
3	k_Bacteria;p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
3	k_Bacteria;p_Proteobacteria;c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_Comamonas
2	k_Bacteria;p_Actinobacteria;c_Thermoleophilia:o_Solirubrobacterales:f_
2	k_Bacteria;p_Actinobacteria;c_Thermoleophilia:o_Solirubrobacterales:f_Patulibacteraceae:g_
1	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_
3	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Kaistobacter
12	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Rhizobiales:f_Rhizobiaceae:g_Agrrobacterium
2	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_Mycoplana
3	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae
1	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
2	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Kaistobacter
2	k_Bacteria;p_Actinobacteria;c_Actinobacteria:o_Actinomycetales:f_Dermabacteraceae:g_Brachybacterium
1	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_Brevundimonas
3	k_Bacteria;p_Actinobacteria;c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_Friedmanniella
2	k_Bacteria;p_Actinobacteria;c_Coriobacteria:o_Coriobacteriales:f_Coriobacteriaceae:g_Collinsella
2	k_Bacteria;p_Spirochaetes;c_Spirochaetes:o_Spirochaetales:f_Spirochaetaceae:g_Treponema
3	k_Bacteria;p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Streptococcaceae:g_Streptococcus
5	k_Bacteria;p_Firmicutes:c_Clostridia;o_Clostridiales:f_Clostridiaceae:g_
23	k_Bacteria;p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Streptococcaceae:g_Streptococcus
6	k_Bacteria;p_Firmicutes:c_Bacilli:o_Lactobacillales:f_
2	k_Bacteria;p_Firmicutes:c_Clostridia;o_Clostridiales:f_[Tissierellaceae]:g_Anærococcus
2	k_Bacteria;p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Streptococcaceae:g_Lactococcus
2	k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Luteibacter
3	k_Bacteria;p_Firmicutes:c_Clostridia;o_Clostridiales:f_[Tissierellaceae]:g_Anærococcus
1	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_
2	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Skermanella
1	k_Bacteria;p_Actinobacteria;c_Actinobacteria:o_Actinomycetales:f_Cellulomonadaceae:g_Cellulomonas
1	k_Bacteria;p_Actinobacteria;c_Actinobacteria:o_Actinomycetales:f_Propionibacteriaceae:g_Microlunatus
2	k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria:o_Enterobacteriales:f_Enterobacteriaceae:g_
1	k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_
2	k_Bacteria;p_Bacteroidetes:c_[Rhodothermi]:o_[Rhodothermales]:f_Rhodothermaceae:g_Rubricoccus
6	k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria:o_Pseudomonadales:f_Pseudomonadaceae:g_Pseudomonas
11	k_Bacteria;p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae
6	k_Bacteria;p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Peptoniphilus
63	k_Bacteria;p_Proteobacteria;c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_

MID2	denovo187	3   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_
MID2	denovo193	1   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_Phenylobacterium
MID2	denovo199	1   k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Rhodocyclales:f_Rhodocyclaceae
MID2	denovo201	1   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Peptostreptococcaceae:g_Peptostreptococcus
MID2	denovo207	3   k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_C111:g_
MID2	denovo210	1   k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID2	denovo213	2   k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Luteimonas
MID2	denovo219	1   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID2	denovo224	1   k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Agromyces
MID2	denovo228	1   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingomonas
MID2	denovo232	3   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Anaerococcus
MID2	denovo244	1   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae
MID2	denovo245	1   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylbacteriaceae:g_Methylbacterium
MID2	denovo252	3   k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Intrasporangiaceae:g_Kytococcus
MID2	denovo253	2   k_Bacteria:p_Gemmimatimonadetes:c_Gemmimatimonadetes:o_N1423WL:f_g_
MID2	denovo266	4   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Erythrobacteraceae
MID2	denovo267	1   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingomonas
MID2	denovo271	1   k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f_g_
MID2	denovo282	1   k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Stenotrophomonas
MID2	denovo288	5   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
MID2	denovo289	3   k_Bacteria:p_Cyanobacteria:c_Synechococcophyceae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID2	denovo291	1   k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_Delftia
MID2	denovo293	2   k_Bacteria:p_Acidobacteria:c_Solibacteres:o_Solibacterales:f_g_
MID2	denovo294	1   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Peptoniphilus
MID2	denovo30	1   k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Bogoriellaceae:g_Geogenia
MID2	denovo306	3   k_Bacteria:p_Bacteroidetes:c_Flavobacteriia:o_Flavobacteriales:f_Flavobacteriaceae:g_Aequorivita
MID2	denovo318	1   k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_
MID2	denovo322	1   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_
MID2	denovo323	1   k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Pseudomonadales:f_Pseudomonadaceae:g_Pseudomonas
MID2	denovo353	8   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID2	denovo361	20   k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID2	denovo374	1   k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Cryocola
MID2	denovo388	3   k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Pseudomonadales:f_Pseudomonadaceae:g_Pseudomonas
MID2	denovo391	1   k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Rudanella
MID2	denovo393	5   k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Lysobacter
MID2	denovo40	1   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Erythrobacteraceae:g_
MID2	denovo404	4   k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Enterococcaceae:g_Enterococcus
MID2	denovo429	1   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Clostridium
MID2	denovo43	1   k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_g_
MID2	denovo439	2   k_Bacteria:p_Firmicutes:c_Bacilli:o_Turicibacterales:f_Turicibacteraceae:g_Turicibacter
MID2	denovo443	1   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Bradyrhizobiaceae:g_
MID2	denovo454	1   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Kaistobacter
MID2	denovo464	3   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_g_
MID2	denovo468	2   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_
MID2	denovo470	1   k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_g_
MID2	denovo482	1   k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f_g_
MID2	denovo485	1   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Blautia
MID2	denovo489	1   k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Pseudomonadales:f_Pseudomonadaceae:g_
MID2	denovo492	2   k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_Chroococcidiopsis
MID2	denovo499	1   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Roseburia
MID2	denovo502	1   k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Leuconostocaceae:g_Leuconostoc
MID2	denovo505	1   k_Bacteria:p_Acidobacteria:c_Sva0725:o_Sva0725:f_g_
MID2	denovo506	1   k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Enterobacteriales:f_Enterobacteriaceae
MID2	denovo510	1   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Mogibacteriaceae]:g_
MID2	denovo514	2   k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Stramenopiles:f_g_
MID2	denovo520	1   k_Bacteria:p_Acidobacteria:c_[Chloracidobacteria]:o_RB41:f_Ellin6075:g_
MID2	denovo524	1   k_Bacteria:p_Acidobacteria:c_[Chloracidobacteria]:o_RB41:f_Ellin6075:g_
MID2	denovo530	3   k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID2	denovo542	25   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Finegoldia
MID2	denovo548	1   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID2	denovo556	1   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID2	denovo568	5   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingobium
MID2	denovo57	1   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae
MID2	denovo58	3   k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID2	denovo592	4   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_
MID2	denovo595	1   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Amaricoccus
MID2	denovo596	1   k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Bacillaceae:g_Geobacillus

MID2	denovo600	3   k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Oscillatoriales:f_Phormidiaceae:g_Phormidium
MID2	denovo605	3   k_Bacteria:p_Firmicutes:c_Bacilli:o_Gemellales:f_Gemellaceae:g_Gemella
MID2	denovo61	2   k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Actinomycetaceae:g_Actinomyces
MID2	denovo624	1   k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID2	denovo626	1   k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_g_
MID2	denovo628	1   k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Arenimonas
MID2	denovo63	53   k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID2	denovo630	1   k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacteriales:f_[Weeksellaceae]:g_Chryseobacterium
MID2	denovo631	3   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_g_
MID2	denovo632	1   k_Bacteria:p_FBP:c_o:f_g_
MID2	denovo633	4   k_Bacteria:p_Armatimonadetes:c_Armatimonadia:o_Armatimonadales:f_Armatimonadaceae:g_
MID2	denovo635	1   k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_SC-I-84:f_g_
MID2	denovo639	3   k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Geodermatophilaceae:g_Modestobacter
MID2	denovo64	1   k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae
MID2	denovo640	1   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_
MID2	denovo642	1   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Erythrobacteraceae:g_Lutibacterium
MID2	denovo65	3   k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Exiguobacteraceae:g_Exiguobacterium
MID2	denovo655	2   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Tissierellaceae:g_Anaoecoccus
MID2	denovo661	1   k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_g_
MID2	denovo662	1   k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID2	denovo665	5   k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID2	denovo666	1   k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Aerococcaceae:g_Aerococcus
MID2	denovo667	1   k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f_g_
MID2	denovo668	1   k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Neisseriales:f_Neisseriaceae:g_Neisseria
MID2	denovo672	1   k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_g_
MID2	denovo699	1   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g_
MID2	denovo700	2   k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Pseudoxanthomonas
MID2	denovo709	15   k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Pseudomonadales:f_Moraxellaceae:g_Enhydrobacter
MID2	denovo710	2   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_g_
MID2	denovo713	2   k_Bacteria:p_Bacteroidetes:c_Sphingobacterilia:o_Sphingobacteriales:f_Sphingobacteriaceae:g_Sphingobacterium
MID2	denovo729	3   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phyllobacteriaceae
MID2	denovo733	1   k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID2	denovo734	2   k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Neisseriales:f_Neisseriaceae:g_Neisseria
MID2	denovo748	9   k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Lysobacter
MID2	denovo75	9   k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_Comamonas
MID2	denovo760	1   k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Paenibacillaceae:g_Paenibacillus
MID2	denovo763	6   k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Gaiellales:f_Gaiellaceae:g_
MID2	denovo770	11   k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_
MID2	denovo777	2   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_
MID2	denovo778	1   k_Bacteria:p_Fusobacteria:c_Fusobacteria:o_Fusobacteriales:f_Fusobacteriaceae:g_Fusobacterium
MID2	denovo79	4   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Tissierellaceae:g_Anaoecoccus
MID2	denovo798	1   k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Myxococcales:f_g_
MID2	denovo803	3   k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Sporichthyaceae:g_
MID2	denovo805	1   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Mogibacteriaceae:g_
MID2	denovo807	3   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID2	denovo808	1   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingomonas
MID2	denovo812	65   k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacteriales:f_[Weeksellaceae]:g_Wautersiella
MID2	denovo813	1   k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Stenotrophomonas
MID2	denovo828	2   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Clostridium
MID2	denovo829	6   k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Carnobacteriaceae:g_Carnobacterium
MID2	denovo83	1   k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Corynebacteriaceae:g_Corynebacterium
MID2	denovo831	1   k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Propionibacteriaceae:g_
MID2	denovo836	1   k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae
MID2	denovo838	1   k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_g_
MID2	denovo840	1   k_Bacteria:p_Gemmamicrobacteria:c_Gemm-1o:f_g_
MID2	denovo841	4   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_g_
MID2	denovo842	1   k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID2	denovo844	1   k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_
MID2	denovo845	13   k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Stenotrophomonas
MID2	denovo858	1   k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_Propionicimonas
MID2	denovo868	1   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Tissierellaceae:g_Anaoecoccus
MID2	denovo87	2   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_Phenylobacterium
MID2	denovo874	2   k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Amaricoccus
MID2	denovo878	2   k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Streptococcaceae:g_Streptococcus
MID2	denovo880	1   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_Ruminococcus
MID2	denovo881	1   k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Tissierellaceae:g_1-68
MID2	denovo882	1   k_Bacteria:p_Cyanobacteria:c_Synechococcophycideae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya

MID2	denovo885
MID2	denovo886
MID2	denovo888
MID2	denovo893
MID2	denovo894
MID2	denovo895
MID2	denovo896
MID2	denovo9
MID2	denovo91
MID2	denovo911
MID2	denovo92
MID2	denovo924
MID2	denovo935
MID2	denovo942
MID2	denovo95
MID2	denovo953
MID2	denovo955
MID2	denovo96
MID2	denovo964
MID2	denovo965
MID2	denovo971
MID2	denovo977
MID2	denovo980
MID2	denovo997
MID2	denovo999
MID3	denovo0
MID3	denovo1
MID3	denovo1000
MID3	denovo1002
MID3	denovo1009
MID3	denovo101
MID3	denovo1011
MID3	denovo1014
MID3	denovo1016
MID3	denovo1018
MID3	denovo1026
MID3	denovo1028
MID3	denovo1033
MID3	denovo1037
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MID3	denovo1045
MID3	denovo1051
MID3	denovo1054
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MID3	denovo1064
MID3	denovo107
MID3	denovo1070
MID3	denovo1071
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MID3	denovo1074
MID3	denovo1076
MID3	denovo1077
MID3	denovo1082
MID3	denovo1085
MID3	denovo1086
MID3	denovo1089
MID3	denovo109
MID3	denovo1090
MID3	denovo1094
MID3	denovo1101
MID3	denovo1108
MID3	denovo1110
MID3	denovo1114
MID3	denovo1116
MID3	denovo1120
MID3	denovo1123

1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Ruminococcaceae:g\_  
 2 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_[Tissierellaceae]g\_Peptoniphilus  
 2 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodobacterales:f\_Rhodobacteraceae:g\_  
 5 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Lactobacillales:f\_Lactobacillaceae:g\_Lactobacillus  
 1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_MBA08:f:\_g\_  
 1 k\_Bacteria:p\_Proteobacteria:c\_Betaproteobacteria:o\_Burkholderiales:f\_Comamonadaceae:g\_  
 1 k\_Bacteria:p\_Bacteroidetes:c\_Bacteroidia:o\_Bacteroidales:f\_Prevotellaceae:g\_Prevotella  
 1 k\_Bacteria:p\_Actinobacteria:c\_Thermoleophilia:o\_Gaiellales:f\_Gaiellaceae:g\_  
 3 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Caulobacterales:f\_Caulobacteraceae:g\_Brevundimonas  
 1 k\_Bacteria:p\_Acidobacteria:c\_[Chloracidobacteria]:o\_RB41:f\_Ellin6075:g\_  
 9 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Lactobacillales:f\_Lactobacillaceae:g\_Lactobacillus  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonadales:f\_Sphingomonadaceae:g\_Sphingomonas  
 1 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Xanthomonadales:f\_Xanthomonadaceae:g\_Thermomonas  
 1 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Alteromonadales:f\_[Chromatiaceae]g\_Rheinheimera  
 3 k\_Bacteria:p\_Bacteroidetes:c\_Flavobacteria:o\_Flavobacteriales:f\_[Weeksellaceae]g\_Chryseobacterium  
 3 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Microbacteriaceae:g\_Curtobacterium  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Methylobacteriaceae:g\_Methylobacterium  
 4 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_[Tissierellaceae]g\_Anaerococcus  
 8 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Pseudomonadales:f\_Moraxellaceae:g\_Acinetobacter  
 2 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Lactobacillales:f\_Aerococcaceae:g\_Facklamia  
 1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Lachnospiraceae:g\_  
 1 k\_Bacteria:p\_Cyanobacteria:c\_Nostophycideae:o\_Stigonematales:f\_Rivulariaceae:g\_Calothrix  
 2 k\_Bacteria:p\_Actinobacteria:c\_Thermoleophilia:o\_Solirubrobacterales:f\_Solirubrobacteraceae:g\_  
 2 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonadales:f\_Erythrobacteraceae:g\_  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f:\_g\_  
 3 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Actinomycetaceae:g\_Actinomyces  
 2 k\_Bacteria:p\_Acidobacteria:c\_Solibacteres:o\_Solibacterales:f:\_g\_  
 3 k\_Bacteria:p\_Bacteroidetes:c\_Flavobacteria:o\_Flavobacteriales:f\_Flavobacteriaceae:g\_Flavobacterium  
 1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_[Tissierellaceae]g\_Anaerococcus  
 1 k\_Bacteria:p\_Acidobacteria:c\_[Chloracidobacteria]:o\_RB41:f\_Ellin6075:g\_  
 1 k\_Bacteria:p\_Proteobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Propinibacteriaceae:g\_Propinibacterium  
 1 k\_Bacteria:p\_Plantomycetes:c\_Plantomycetia:o\_Pirellulales:f\_Pirellulaceae:g\_Pirellula  
 11 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Bradyrhizobiaceae:g\_Balneimonas  
 1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Lachnospiraceae:g\_[Ruminococcus]  
 10 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_[Tissierellaceae]g\_Peptoniphilus  
 4 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Xanthomonadales:f\_Xanthomonadaceae:g\_Lysobacter  
 1 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Bacillales:f\_Staphylococcaceae:g\_Staphylococcus  
 1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Ruminococcaceae:g\_  
 1 k\_Bacteria:p\_Proteobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Corynebacteriaceae:g\_Corynebacterium  
 1 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Bacillales:f\_Planoococcaceae  
 6 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Lachnospiraceae:g\_Coprococcus  
 3 k\_Bacteria:p\_Proteobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Micrococcaceae:g\_Kocuria  
 2 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f:\_g\_  
 8 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Bacillales:f\_Bacillaceae:g\_Bacillus  
 9 k\_Bacteria:p\_Actinobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Microbacteriaceae:g\_Microbacterium  
 4 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Hyphomicrobiaceae:g\_  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodobacterales:f\_Rhodobacteraceae:g\_Rubellimicrobium  
 1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_[Tissierellaceae]g\_Anaerococcus  
 5 k\_Bacteria:p\_Bacteroidetes:c\_Cytophagia:o\_Cytophagales:f\_Cytophagaceae:g\_  
 1 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Xanthomonadales:f\_Xanthomonadaceae:g\_Stenotrophomonas  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodobacterales:f\_Rhodobacteraceae:g\_Rubellimicrobium  
 2 k\_Bacteria:p\_Bacteroidetes:c\_Bacteroidia:o\_Bacteroidales:f\_[Paraprevotellaceae]g\_CF231  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Hyphomicrobiaceae:g\_Devosia  
 2 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_Clostridiaceae:g\_Clostridium  
 1 k\_Bacteria:p\_Proteobacteria:c\_Acidimicrobia:o\_Acidimicrobales:f\_C111:g\_  
 6 k\_Bacteria:p\_Proteobacteria:c\_Actinobacteria:o\_Actinomycetales:f\_Nocardioiidae:g\_  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodospirillales:f\_Acetobacteraceae:g\_  
 6 k\_Bacteria:p\_Proteobacteria:c\_Gammaproteobacteria:o\_Enterobacterales:f\_Enterobacteriaceae  
 5 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodobacterales:f\_Rhodobacteraceae:g\_Amaricoccus  
 3 k\_Bacteria:p\_Firmicutes:c\_Bacilli:o\_Lactobacillales:f\_Aerococcaceae:g\_Facklamia  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodobacterales:f\_Rhodobacteraceae:g\_Rubellimicrobium  
 2 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Caulobacterales:f\_Caulobacteraceae  
 1 k\_Bacteria:p\_Bacteroidetes:c\_Flavobacteria:o\_Flavobacteriales:f\_Flavobacteriaceae:g\_Flavobacterium  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhizobiales:f\_Bradyrhizobiaceae:g\_  
 1 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Rhodospirillales:f\_Acetobacteraceae:g\_  
 1 k\_Bacteria:p\_Firmicutes:c\_Clostridia:o\_Clostridiales:f\_[Tissierellaceae]g\_Helcococcus  
 2 k\_Bacteria:p\_Proteobacteria:c\_Alphaproteobacteria:o\_Sphingomonadales:f\_Sphingomonadaceae:g\_Sphingomonas

MID3	denovo1125	1 k_Bacteria:p_Acidobacteria:c_[Chloracidobacteria]:o_RB41:f_Ellin6075:g_
MID3	denovo1130	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_
MID3	denovo1131	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Sanguibacteraceae:g_Sanguibacter
MID3	denovo1132	2 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Enterococcaceae:g_Vagococcus
MID3	denovo1137	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_BD7-3:f:g_
MID3	denovo1139	1 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f:g_
MID3	denovo114	4 k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Chlorophyt:f:g_
MID3	denovo1141	1 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales
MID3	denovo1145	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_
MID3	denovo1146	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Legionellales:f_Coxiellaceae:g_
MID3	denovo1147	1 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Myxococcales:f:g_
MID3	denovo1148	3 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID3	denovo1150	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Roseburia
MID3	denovo1153	3 k_Bacteria:p_Cyanobacteria:c_Nostocophycideae:o_Stigonematales:f_Rivulariaceae:g_Calothrix
MID3	denovo1155	1 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Bacillaceae:g_Bacillus
MID3	denovo116	1 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Streptococcaceae:g_Streptococcus
MID3	denovo1160	1 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Spirobaillales:f:g_
MID3	denovo1161	2 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Staphylococcaceae:g_Salinicoccus
MID3	denovo1165	7 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Tissierellaceae:g_Anaerococcus
MID3	denovo1170	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Dermacoccaceae:g_Dermacoccus
MID3	denovo1171	2 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Luteimonas
MID3	denovo1172	1 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Paenibacillaceae:g_Cohnella
MID3	denovo1173	6 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Paracoccus
MID3	denovo1184	7 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phyllobacteriaceae:g_
MID3	denovo119	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Kaistobacter
MID3	denovo1191	1 k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Gemmatales:f_Isosphaeraceae:g_
MID3	denovo1199	1 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_C111:g_
MID3	denovo1200	1 k_Bacteria:p_Chloroflexi:c_Anaerolineae:o_WCHB1-50:f:g_
MID3	denovo1201	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rickettsiales:f_Rickettsiaceae:g_Rickettsia
MID3	denovo1202	29 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_Methylobacterium
MID3	denovo1206	1 k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Plantomycetales:f_Plantomycetaceae:g_Plantomycetes
MID3	denovo1207	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_SBla14:f:g_
MID3	denovo1210	2 k_Bacteria:p_Plantomycetes:c_vardinHA49:o_DH61:f:g_
MID3	denovo1216	1 k_Bacteria:p_Actinobacteria:c_MB-A2-108:o_0319-7L14:f:g_
MID3	denovo1217	1 k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Chlorophyt:f:g_
MID3	denovo1223	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Enterobacteriales:f_Enterobacteriaceae:g_Dickeya
MID3	denovo1225	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phyllobacteriaceae:g_Mesorhizobium
MID3	denovo1227	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Rhizobiaceae
MID3	denovo1230	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_Comamonas
MID3	denovo1231	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID3	denovo1233	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_Nocardioides
MID3	denovo1235	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Clostridium
MID3	denovo1236	3 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Rhodocytophaga
MID3	denovo1237	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_
MID3	denovo1238	2 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Legionellales:f_Coxiellaceae:g_
MID3	denovo124	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Christensenellaceae:g_
MID3	denovo1248	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_
MID3	denovo1253	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Rhizobiaceae:g_Agrobacterium
MID3	denovo1255	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID3	denovo1257	7 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae
MID3	denovo126	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Rhodoplanes
MID3	denovo1260	1 k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Gemmatales:f_Gemmataceae:g_Gemmata
MID3	denovo1265	2 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID3	denovo1267	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rickettsiales:f_Rickettsiales:f:g_
MID3	denovo1269	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Thiotrichales:f_Piscirickettsiaceae:g_
MID3	denovo127	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Pseudomonadales:f_Pseudomonadaceae:g_
MID3	denovo1270	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylcytaceae:g_Methylolpila
MID3	denovo1271	3 k_Bacteria:p_Cyanobacteria:c_4C0d-2:o_MLE1-12:f:g_
MID3	denovo1276	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Williamsiaceae:g_Williamsia
MID3	denovo1277	6 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Paenibacillaceae:g_Paenibacillus
MID3	denovo1279	4 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales
MID3	denovo1280	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Pseudomonadales:f_Pseudomonadaceae:g_Pseudomonas
MID3	denovo1287	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Corynebacteriaceae:g_Corynebacterium
MID3	denovo1288	3 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID3	denovo1290	4 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Dermabacteraceae:g_Brachybacterium
MID3	denovo1292	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Acetobacteraceae:g_
MID3	denovo1293	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f:g_

MID3	denovo13	4	k_Bacteria:p__Actinobacteria:c__Actinobacteria:o__Actinomycetales:f__Corynebacteriaceae:g__Corynebacterium
MID3	denovo130	1	k_Bacteria:p__Planctomycetes:c__Planctomycetia:o__Gemmatiales:f__Gemmataceae:g__
MID3	denovo1300	13	k_Bacteria:p__Actinobacteria:c__Actinobacteria:o__Actinomycetales:f__Nocardioidaceae:g__Friedmanniella
MID3	denovo1301	2	k_Bacteria:p__Actinobacteria:c__Coriobacteriia:o__Coriobacteriales:f__Coriobacteriaceae:g__Collinsella
MID3	denovo1303	1	k_Bacteria:p__Actinobacteria:c__Actinobacteria:o__Actinomycetales:f__Propionibacteriaceae:g__
MID3	denovo1308	12	k_Bacteria:p__Firmicutes:c__Bacilli:o__Lactobacillales:f__Streptococcaceae:g__Streptococcus
MID3	denovo1309	1	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhodospirillales:f__Rhodospirillaceae:g__
MID3	denovo1312	1	k_Bacteria:p__Proteobacteria:c__Betaproteobacteria:o__Burkholderiales:f__Oxalobacteraceae:g__
MID3	denovo1317	2	k_Bacteria:p__Firmicutes:c__Bacilli:o__Lactobacillales:f__Aerococcaceae:g__Alloiococcus
MID3	denovo1318	3	k_Bacteria:p__Cyanobacteria:c__Chloroplast:o__Chlorophyta:f__Trebouxiophyceae:g__Coccomyxa
MID3	denovo1319	1	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Sphingomonadales:f__Sphingomonadaceae:g__Kaistobacter
MID3	denovo1322	1	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhodospirillales:f__Rhodospirillaceae:g__
MID3	denovo1323	7	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhizobiales:f__Methylocystaceae:g__
MID3	denovo1324	4	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhodospirillales:f__Acetobacteraceae:g__
MID3	denovo1328	3	k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__Lachnospiraceae:g__Coprococcus
MID3	denovo1329	1	k_Bacteria:p__Acidobacteriac:[Chloracidobacteria]:o__RB41:f__Ellin6075:g__
MID3	denovo133	3	k_Bacteria:p__Bacteroides:c__Bacteroidia:o__Bacteroidales:f__Porphyromonadaceae:g__Candidatus_Azobacteroides
MID3	denovo1334	55	k_Bacteria:p__Firmicutes:c__Bacilli:o__Lactobacillales:f__Streptococcaceae:g__Streptococcus
MID3	denovo1335	3	k_Bacteria:p__Proteobacteria:c__Gammaproteobacteria:o__Legionellales:f__Legionellaceae:g__
MID3	denovo1336	1	k_Bacteria:p__Actinobacteria:c__Acidimicrobia:o__Acidimicrobales:f__C111:g__
MID3	denovo134	47	k_Bacteria:p__Firmicutes:c__Bacilli:o__Lactobacillales:f__g__
MID3	denovo1341	13	k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__[Tissierellaceae]:g__Anaerococcus
MID3	denovo1342	1	k_Bacteria:p__Actinobacteria:c__Actinobacteria:o__Actinomycetales:f__Intrasporangiaceae
MID3	denovo1345	3	k_Bacteria:p__Firmicutes:c__Bacilli:o__Bacillales:f__Alicyclobacillaceae:g__Alicyclobacillus
MID3	denovo1346	11	k_Bacteria:p__Firmicutes:c__Bacilli:o__Lactobacillales:f__Streptococcaceae:g__Lactococcus
MID3	denovo1347	2	k_Bacteria:p__Proteobacteria:c__Gammaproteobacteria:o__Xanthomonadales:f__Xanthomonadaceae:g__Luteibacter
MID3	denovo1349	9	k_Bacteria:p__Proteobacteria:c__Deltaproteobacteria:o__Myxococcales:f__Nannocystaceae:g__Nannocystis
MID3	denovo135	1	k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__Clostridiaceae:g__Clostridium
MID3	denovo1357	2	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhodospirillales:f__Rhodospirillaceae:g__
MID3	denovo138	13	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhodospirillales:f__Rhodospirillaceae:g__Skermanella
MID3	denovo140	1	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Caulobacterales:f__Caulobacteraceae:g__
MID3	denovo148	1	k_Bacteria:p__Cyanobacteria:c__Synchococophycideae:o__Pseudanabaenales:f__Pseudanabaenaceae:g__Leptolyngbya
MID3	denovo149	1	k_Bacteria:p__Actinobacteria:c__Actinobacteria:o__Actinomycetales:f__Cellulomonadaceae:g__Cellulomonas
MID3	denovo15	2	k_Bacteria:p__[Thermi]:c__Deinococcio:_Deinococcales:f__Trueperaceae:g__Truepera
MID3	denovo152	1	k_Bacteria:p__Actinobacteria:c__Thermoleophilia:o__Solirubrobacterales:f__g__
MID3	denovo153	1	k_Bacteria:p__Chlorobi:c__SJA-28:o__f__g__
MID3	denovo155	1	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhodobacterales:f__Rhodobacteraceae:g__Rubellimicrobium
MID3	denovo157	1	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhodospirillales:f__g__
MID3	denovo160	1	k_Bacteria:p__Gemmimonadetes:c__Gemm-3:o__f__g__
MID3	denovo161	2	k_Bacteria:p__Bacteroides:c__Bacteroidia:o__Bacteroidales:f__Porphyromonadaceae:g__Candidatus_Azobacteroides
MID3	denovo162	2	k_Bacteria:p__Bacteroides:c__Bacteroidia:o__Bacteroidales:f__Bacteroidaceae:g__Bacteroides
MID3	denovo164	1	k_Bacteria:p__Proteobacteria:c__Gammaproteobacteria:o__Pseudomonadales:f__Moraxellaceae:g__Psychrobacter
MID3	denovo168	2	k_Bacteria:p__Firmicutes:c__Bacilli:o__Lactobacillales:f__Streptococcaceae:g__Streptococcus
MID3	denovo169	1	k_Bacteria:p__Actinobacteria:c__Acidimicrobia:o__Acidimicrobales:f__g__
MID3	denovo17	1	k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__Veillonellaceae
MID3	denovo170	2	k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__[Tissierellaceae]:g__Anaerococcus
MID3	denovo176	2	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Sphingomonadales:f__Sphingomonadaceae:g__
MID3	denovo178	4	k_Bacteria:p__Bacteroides:c__[Rhodothermi]:o__[Rhodothermales]:f__Rhodothermaceae:g__Rubricoccus
MID3	denovo179	1	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Sphingomonadales:f__Sphingomonadaceae:g__Sphingomonas
MID3	denovo18	1	k_Bacteria:p__Proteobacteria:c__Gammaproteobacteria:o__Pseudomonadales:f__Pseudomonadaceae:g__Pseudomonas
MID3	denovo180	1	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Caulobacterales:f__Caulobacteraceae:g__Phenylobacterium
MID3	denovo182	1	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhodospirillales:f__Acetobacteraceae:g__
MID3	denovo183	67	k_Bacteria:p__Cyanobacteria:c__Oscillatoriophycideae:o__Chroococcales:f__Xenococcaceae
MID3	denovo184	24	k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__[Tissierellaceae]:g__Peptoniphilus
MID3	denovo185	13	k_Bacteria:p__Proteobacteria:c__Gammaproteobacteria:o__Xanthomonadales:f__Xanthomonadaceae:g__
MID3	denovo186	2	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhizobiales:f__Bradyrhizobiaceae:g__Balneimonas
MID3	denovo187	1	k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__Clostridiaceae:g__
MID3	denovo189	1	k_Bacteria:p__Actinobacteria:c__Actinobacteria:o__Actinomycetales:f__g__
MID3	denovo192	1	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhodospirillales:f__Rhodospirillaceae:g__Azospirillum
MID3	denovo193	3	k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Caulobacterales:f__Caulobacteraceae:g__Phenylobacterium
MID3	denovo195	2	k_Bacteria:p__Firmicutes:c__Bacilli:o__Bacillales:f__Paenibacillaceae:g__Saccharibacillus
MID3	denovo2	1	k_Bacteria:p__Proteobacteria:c__Betaproteobacteria:o__Burkholderiales:f__Oxalobacteraceae:g__
MID3	denovo201	2	k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__Peptostreptococcaceae:g__Peptostreptococcus
MID3	denovo207	2	k_Bacteria:p__Actinobacteria:c__Acidimicrobia:o__Acidimicrobales:f__C111:g__
MID3	denovo208	1	Unassigned
MID3	denovo210	3	k_Bacteria:p__Proteobacteria:c__Gammaproteobacteria:o__Xanthomonadales:f__Xanthomonadaceae:g__
MID3	denovo213	2	k_Bacteria:p__Proteobacteria:c__Gammaproteobacteria:o__Xanthomonadales:f__Xanthomonadaceae:g__Luteimonas

MID3	denovo214	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_
MID3	denovo218	2 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Oscillatoriales:f_Phormidiaceae:g_Phormidium
MID3	denovo221	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_f_g_
MID3	denovo225	3 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Alteromonadales:f_211ds20:g_
MID3	denovo228	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingomonas
MID3	denovo229	6 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g_
MID3	denovo231	1 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Myxococcales:f_g_
MID3	denovo232	16 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Annaerococcus
MID3	denovo234	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Bradyrhizobiaceae:g_
MID3	denovo236	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Geodermatophilaceae:g_
MID3	denovo24	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Annaerococcus
MID3	denovo248	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID3	denovo254	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_MBA08:f_g_
MID3	denovo255	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Beijerinckiaceae:g_
MID3	denovo264	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g_
MID3	denovo27	1 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Myxococcales:f_g_
MID3	denovo270	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_
MID3	denovo272	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID3	denovo273	2 k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Plantomycetales:f_Plantomycetaceae:g_Plantomycetes
MID3	denovo275	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_g_
MID3	denovo277	1 Unassigned
MID3	denovo285	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_
MID3	denovo286	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Frankiaceae:g_
MID3	denovo288	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
MID3	denovo290	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_
MID3	denovo291	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_Delftia
MID3	denovo292	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_
MID3	denovo295	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Rhizobiaceae:g_Kaistia
MID3	denovo296	3 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_WAL_1855D
MID3	denovo298	1 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Oscillatoriales:f_Phormidiaceae:g_Phormidium
MID3	denovo299	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_f_g_
MID3	denovo303	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_[Paraprevotellaceae]:g_[Prevotella]
MID3	denovo305	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylocystaceae:g_Methylosinus
MID3	denovo31	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_Magnetospirillum
MID3	denovo313	2 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Vibrionales:f_Pseudoalteromonadales:f_Pseudoalteromonas
MID3	denovo314	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Beijerinckiaceae:g_
MID3	denovo315	7 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Rhizobiaceae:g_Rhizobium
MID3	denovo319	1 k_Bacteria:p_Bacteroidetes:c_Flavobacteriia:o_Flavobacteriales:f_[Weeksellaceae]:g_Chryseobacterium
MID3	denovo323	2 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Pseudomonadales:f_Pseudomonadaceae:g_Pseudomonas
MID3	denovo324	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Devosia
MID3	denovo325	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Annaerococcus
MID3	denovo327	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Pseudonocardiaceae:g_Pseudonocardia
MID3	denovo331	2 k_Bacteria:p_Cyanobacteria:c_ML635J-21:o_f_g_
MID3	denovo332	1 k_Bacteria:p_Chloroflexi:c_Anaerolineae:_SBR1031:f_A4bg:g_
MID3	denovo333	2 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Bacillaceae:g_Bacillus
MID3	denovo334	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae
MID3	denovo335	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Micrococcaceae:g_Arthrobacter
MID3	denovo337	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Aurantimonadaceae:g_
MID3	denovo34	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Dokdonella
MID3	denovo340	3 k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Chlorophyta:f_g_
MID3	denovo348	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_
MID3	denovo349	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Erythrobacteraceae:g_
MID3	denovo35	12 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Myxococcales:f_Haliangiaceae:g_
MID3	denovo353	9 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID3	denovo357	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Corynebacteriaceae:g_Corynebacterium
MID3	denovo359	5 k_Bacteria:p_Bacteroidetes:c_Sphingobacteriia:o_Sphingobacteriales:f_g_
MID3	denovo360	3 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Emticicia
MID3	denovo361	1 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID3	denovo362	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_f_g_
MID3	denovo367	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_g_
MID3	denovo37	1 k_Bacteria:p_Cyanobacteria:c_Nostocophycideae:o_Nostocales:f_Nostocaceae:g_
MID3	denovo377	3 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_Propionicimonas
MID3	denovo378	2 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Enterobacteriales:f_Enterobacteriaceae:g_Erwinia
MID3	denovo379	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rickettsiales:f_Rickettsiaceae:g_Wolbachia
MID3	denovo38	9 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_
MID3	denovo380	1 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Gaiellales:f_Gaiellaceae:g_
MID3	denovo384	1 k_Bacteria:p_Fusobacteria:c_Fusobacteria:o_Fusobacteriales:f_Fusobacteriaceae:g_Fusobacterium

MID3	denovo387	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Aeromonadales:f_Aeromonadaceae:g_
MID3	denovo389	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylcystaceae:g_
MID3	denovo390	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_O Actinomycetales:f_Microbacteriaceae:g_Frigoribacterium
MID3	denovo393	5 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Lysobacter
MID3	denovo398	1 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Rhodocytophaga
MID3	denovo400	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylbacteriaceae:g_Methylbacterium
MID3	denovo404	4 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Enterococcaceae:g_Enterococcus
MID3	denovo407	4 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_f:g_
MID3	denovo410	4 k_Bacteria:p_Bacteroidetes:c_Sphingobacteria:o_Sphingobacteriales:f_Sphingobacteriaceae:g_
MID3	denovo414	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
MID3	denovo416	2 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Porphyrimonadaceae:g_Candidatus_Azobacteroides
MID3	denovo42	1 k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Gemmatales:f_Isosphaeraceae:g_
MID3	denovo420	1 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Myxococcales:f_g:
MID3	denovo421	5 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_
MID3	denovo431	9 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylbacteriaceae:g_Methylbacterium
MID3	denovo433	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_
MID3	denovo434	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_O Actinomycetales:f_Microbacteriaceae:g_Microbacterium
MID3	denovo436	1 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Streptococcaceae:g_Streptococcus
MID3	denovo437	3 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID3	denovo438	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Veillonellaceae:g_Veillonella
MID3	denovo443	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Bradyrhizobiaceae:g_
MID3	denovo445	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Bradyrhizobiaceae:g_
MID3	denovo446	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_
MID3	denovo449	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phyllobacteriaceae:g_Aminobacter
MID3	denovo45	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_O Actinomycetales:f_Kineosporiaceae:g_
MID3	denovo450	5 k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Plantomycetales:f_Plantomycetaceae:g_Plantomycetes
MID3	denovo454	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Kaistobacter
MID3	denovo457	1 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f_g:
MID3	denovo458	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_O Actinomycetales:f_g:
MID3	denovo463	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Acetobacteraceae:g_Roseococcus
MID3	denovo471	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Devosia
MID3	denovo475	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_f:g_
MID3	denovo48	1 k_Bacteria:p_Cyanobacteria:c_4C0d-2:o_SM1D11:f_g:
MID3	denovo483	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_g:
MID3	denovo485	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Blautia
MID3	denovo488	7 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Pseudomonadales:f_Moraxellaceae:g_Moraxella
MID3	denovo489	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Pseudomonadales:f_Pseudomonadaceae:g_
MID3	denovo490	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_
MID3	denovo492	40 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_Chroococcidiopsis
MID3	denovo493	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Clostridium
MID3	denovo494	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Coprococcus
MID3	denovo498	2 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_g:
MID3	denovo501	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_O Actinomycetales:f_Nocardioidaceae:g_Propionicimonas
MID3	denovo502	3 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Leuconostocaceae:g_Leuconostoc
MID3	denovo508	1 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Spirosoma
MID3	denovo511	5 k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacteriales:f_Weeksellaceae:g_Chryseobacterium
MID3	denovo515	3 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Gaiellales:f_Gaiellaceae:g_
MID3	denovo518	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_g:
MID3	denovo519	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Ellin6067:f_g:
MID3	denovo521	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_f:g_
MID3	denovo528	8 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_
MID3	denovo530	15 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID3	denovo532	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Veillonellaceae:g_Sporomusa
MID3	denovo534	2 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Oxalobacteraceae:g_Janthinobacterium
MID3	denovo538	2 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_SC-I-84:f_g:
MID3	denovo540	3 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Bacillaceae:g_Bacillus
MID3	denovo541	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Bacteroidaceae:g_Bacteroides
MID3	denovo542	49 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Finegoldia
MID3	denovo544	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_
MID3	denovo545	1 k_Bacteria:p_Acidobacteria:c_Solibacteres:o_Solibacterales:f_g:
MID3	denovo548	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID3	denovo555	1 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_
MID3	denovo557	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_
MID3	denovo56	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID3	denovo564	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Christensenellaceae:g_
MID3	denovo568	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingobium
MID3	denovo575	1 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Gaiellales:f_g:

MID3	denovo577	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Veillonellaceae:g_Veillonella
MID3	denovo578	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Mycetocola
MID3	denovo584	1 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_Microthrixaceae:g__
MID3	denovo588	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_OPB54:f__g__
MID3	denovo591	1 k_Bacteria:p_Actinobacteria:c_MB-A2-108:o_0319-7L14:f__g__
MID3	denovo592	3 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g__
MID3	denovo593	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f__g__
MID3	denovo594	1 k_Bacteria:p_Nitrospirae:c_Nitrospira:o_Nitrospirales:f_Nitrospiraceae:g_Nitrospira
MID3	denovo595	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Amaricoccus
MID3	denovo599	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Dorea
MID3	denovo60	5 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g__
MID3	denovo600	4 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Oscillatoriaceae:f_Phormidiaceae:g_Phormidium
MID3	denovo601	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Geodermatophilaceae:g_Modestobacter
MID3	denovo602	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Catonella
MID3	denovo605	6 k_Bacteria:p_Firmicutes:c_Bacilli:o_Gemellales:f_Gemmellaceae:g_Gemella
MID3	denovo606	1 k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Gemmatales:f_Gemmataceae:g__
MID3	denovo612	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales
MID3	denovo616	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phylobacteriaceae
MID3	denovo618	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Rhodoplanes
MID3	denovo622	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Coprococcus
MID3	denovo624	2 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g__
MID3	denovo628	7 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Arenimonas
MID3	denovo63	8 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID3	denovo630	1 k_Bacteria:p_Bacteroidetes:c_Flavobacteriia:o_Flavobacteriales:f_[Weeksellaceae]:g_Chryseobacterium
MID3	denovo634	1 k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Chlorophyta:f_Chlamydomonadaceae:g__
MID3	denovo636	2 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f_Patulibacteraceae:g__
MID3	denovo638	2 k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Stramenopiles:f__g__
MID3	denovo639	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Geodermatophilaceae:g_Modestobacter
MID3	denovo641	2 k_Bacteria:p_Acidobacteria:c_Solibacteres:o_Solibacterales:f__g__
MID3	denovo644	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylocystaceae:g__
MID3	denovo645	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Acetobacteraceae:g__
MID3	denovo646	1 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Myxococcales:f__g__
MID3	denovo648	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Aurantimonadaceae:g__
MID3	denovo65	5 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_[Exiguobacteraceae]:g_Exiguobacterium
MID3	denovo650	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Legionellales:f_Legionellaceae:g_Legionella
MID3	denovo651	1 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Aerococcaceae:g_Alloiococcus
MID3	denovo652	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Sinobacteraceae:g__
MID3	denovo655	11 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Anaerococcus
MID3	denovo657	8 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Acetobacteraceae:g__
MID3	denovo66	6 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g__
MID3	denovo660	2 k_Bacteria:p_Firmicutes:c_Erysipelotrichio_Erysipelotrichales:f_Erysipelotrichaceae:g_[Eubacterium]
MID3	denovo661	4 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f__g__
MID3	denovo662	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID3	denovo663	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_Methylobacterium
MID3	denovo665	3 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID3	denovo666	2 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Aerococcaceae:g_Aerococcus
MID3	denovo667	2 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f__g__
MID3	denovo679	1 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Bacillaceae:g_Bacillus
MID3	denovo687	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales
MID3	denovo689	4 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Clostridium
MID3	denovo691	2 k_Bacteria:p_Gemmimonadetes:c_Gemmimonadetes:o_Gemmimonadates:f_Gemmimonadaceae:g_Gemmimonas
MID3	denovo692	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rickettsiales:f__g__
MID3	denovo693	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g__
MID3	denovo694	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Mycobacteriaceae:g_Mycobacterium
MID3	denovo695	2 k_Bacteria:p_Bacteroidetes:c_[Saprospirae]:o_[Saprospirales]:f_Chitinophagaceae:g__
MID3	denovo696	3 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Propionibacteriaceae:g_Propionibacterium
MID3	denovo699	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Acetobacteraceae:g__
MID3	denovo70	9 k_Bacteria:p_Cyanobacteria:c_Nostocophycideae:o_Nostocales:f_Nostocaceae:g_Cylindrospermopsis
MID3	denovo700	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Pseudoxanthomonas
MID3	denovo703	4 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Staphylococcaceae:g_Macrococcus
MID3	denovo709	11 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Pseudomonadales:f_Moraxellaceae:g_Enhydrobacter
MID3	denovo71	7 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Devosia
MID3	denovo722	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae
MID3	denovo725	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Enterobacteriales:f_Enterobacteriaceae:g_Erwinia
MID3	denovo729	7 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phylobacteriaceae
MID3	denovo731	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Finegoldia
MID3	denovo734	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Neisseriales:f_Neisseriaceae:g_Neisseria

MID3	denovo74	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Corynebacteriaceae:g_Corynebacterium
MID3	denovo742	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Frankiaceae:g_
MID3	denovo748	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Lysobacter
MID3	denovo75	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_Comamonas
MID3	denovo754	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Erythrobacteraceae:g_
MID3	denovo755	2 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Dokdonella
MID3	denovo756	2 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f_Solirubrobacteraceae:g_
MID3	denovo758	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_g_
MID3	denovo759	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingomonas
MID3	denovo760	1 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Paenibacillaceae:g_Paenibacillus
MID3	denovo761	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Paracoccus
MID3	denovo766	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Agrococcus
MID3	denovo767	2 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Methylophilales:f_Methylophilaceae:g_Methylotenera
MID3	denovo77	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_
MID3	denovo770	52 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycidae:o_Chroococcales:f_Xenococcaceae:g_
MID3	denovo771	3 k_Bacteria:p_Armatimonadetes:c_Armatimonadia:o_Armatimonadales:f_Armatimonadaceae:g_
MID3	denovo773	1 k_Bacteria:p_Acidobacteria:c_Solibacteres:o_Solibacterales:f_g_
MID3	denovo774	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Sinobacteraceae:g_
MID3	denovo783	3 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycidae:o_Oscillatorioides:f_Phormidiaceae:g_Phormidium
MID3	denovo784	3 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID3	denovo786	7 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Mogibacteriaceae]:g_Mogibacterium
MID3	denovo787	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Oxalobacteraceae:g_Janthinobacterium
MID3	denovo789	2 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Oxalobacteraceae:g_Janthinobacterium
MID3	denovo79	25 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Anaerococcus
MID3	denovo790	2 k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Streptophyta:f_g_
MID3	denovo795	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_g_
MID3	denovo796	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID3	denovo797	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phyllobacteriaceae:g_
MID3	denovo799	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Coprococcus
MID3	denovo803	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Sporichthyaceae:g_
MID3	denovo806	12 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Bacillaceae:g_Bacillus
MID3	denovo807	8 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID3	denovo81	3 k_Bacteria:p_Acidobacteria:c_Acidobacteria-6:o_iii1-15:f_g_
MID3	denovo811	2 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae
MID3	denovo818	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID3	denovo819	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Rhodoplanes
MID3	denovo821	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylcystaceae:g_
MID3	denovo824	14 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Paenibacillaceae:g_Paenibacillus
MID3	denovo829	7 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Carnobacteriaceae:g_Carnobacterium
MID3	denovo83	3 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Corynebacteriaceae:g_Corynebacterium
MID3	denovo831	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Propionibacteriaceae:g_
MID3	denovo832	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Clostridium
MID3	denovo834	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingomonas
MID3	denovo836	8 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycidae:o_Chroococcales:f_Xenococcaceae
MID3	denovo844	4 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_
MID3	denovo852	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID3	denovo853	13 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_g_
MID3	denovo861	1 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f_g_
MID3	denovo865	2 k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Gemmatales:f_Isosphaeraceae:g_
MID3	denovo866	3 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Spirobaillales:f_8_
MID3	denovo868	8 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Anaerococcus
MID3	denovo869	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Pedomicrobium
MID3	denovo871	1 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Streptococcaceae:g_Lactococcus
MID3	denovo875	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_
MID3	denovo876	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Mycobacteriaceae:g_Mycobacterium
MID3	denovo878	18 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Streptococcaceae:g_Streptococcus
MID3	denovo879	1 k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Pirellulales:f_Pirellulaceae:g_
MID3	denovo880	3 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_Ruminococcus
MID3	denovo883	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Rhodoplanes
MID3	denovo885	11 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_
MID3	denovo886	7 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Peptoniphilus
MID3	denovo887	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Beljerinckiaceae:g_
MID3	denovo891	1 k_Bacteria:p_Acidobacteria:c_Acidobacteria-6:o_iii1-15:f_g_
MID3	denovo892	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Peptoniphilus
MID3	denovo896	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID3	denovo897	6 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Corynebacteriaceae:g_Corynebacterium
MID3	denovo902	2 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycidae:o_Chroococcales:f_Xenococcaceae:g_

MID3	denovo904	1 k_Bacteria:p_Firmicutes:c_Bacillii:o_Bacillales:f_Bacillaceae:g_Bacillus
MID3	denovo905	1 k_Bacteria:p_Acidobacteriia:c_Acidobacteria:6:o_iii1-15:f_mb2424:g__
MID3	denovo907	2 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Sinobacteraceae:g__
MID3	denovo908	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g__
MID3	denovo909	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Propionibacteriaceae:g__
MID3	denovo911	1 k_Bacteria:p_Acidobacteriia:c_[Chloracidobacteria]:o_RB41:f_Ellin6075:g__
MID3	denovo918	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Rathayibacter
MID3	denovo919	3 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Hymenobacter
MID3	denovo921	2 k_Bacteria:p_Chloroflexi:c_TK10:o_f:g__
MID3	denovo922	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Bradyrhizobiaceae
MID3	denovo923	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g__
MID3	denovo927	2 k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Gemmatales:f_Isosphaeraceae:g__
MID3	denovo928	9 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g__
MID3	denovo929	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Corynebacteriaceae:g_Corynebacterium
MID3	denovo93	11 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID3	denovo930	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g__
MID3	denovo935	2 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Thermomonas
MID3	denovo938	3 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Brevibacteriaceae:g_Brevibacterium
MID3	denovo946	5 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Lysobacter
MID3	denovo947	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g__
MID3	denovo949	5 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g__
MID3	denovo95	1 k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacteriales:f_[Weeksellaceae]:g_Chryseobacterium
MID3	denovo952	1 k_Bacteria:p_Chloroflexi:_Ellin6529:o_f:g__
MID3	denovo953	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Curtobacterium
MID3	denovo955	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_Methylobacterium
MID3	denovo956	2 k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Chlorophyta:f_g__
MID3	denovo957	6 k_Bacteria:p_Actinobacteria:c_MB-A2-108:o_0319-7L14:f_g__
MID3	denovo96	11 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Anaeococcus
MID3	denovo960	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g__
MID3	denovo963	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g__
MID3	denovo964	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Pseudomonadales:f_Moraxellaceae:g_Acinetobacter
MID3	denovo973	7 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Staphylococcaceae:g_Jeotgalicoccus
MID3	denovo974	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Porphromonadaceae:g__
MID3	denovo977	2 k_Bacteria:p_Cyanobacteria:c_Nostocophycideae:o_Stigonematales:f_Rivulariaceae:g_Calothrix
MID3	denovo978	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_BD7-3:f_g__
MID3	denovo979	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingomonas
MID3	denovo98	3 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g__
MID3	denovo980	1 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacteriales:f_Solirubrobacteraceae:g__
MID3	denovo981	7 k_Bacteria:p_Firmicutes:c_Bacillii:o_Lactobacillales:f_Leuconostocaceae:g__
MID3	denovo99	1 k_Bacteria:p_WPS-2:c_o:f_g__
MID3	denovo992	2 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Neisseriales:f_Neisseriaceae:g__
MID3	denovo999	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_g__
MID4	denovo1000	1 k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacteriales:f_Flavobacteriaceae:g_Flavobacterium
MID4	denovo1001	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID4	denovo1005	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID4	denovo1013	5 k_Bacteria:p_Cyanobacteria:c_Nostocophycideae:o_Nostocales:f_Nostocaceae
MID4	denovo1014	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Bradyrhizobiaceae:g_Balneimonas
MID4	denovo1015	6 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_1-68
MID4	denovo1018	12 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Peptoniphilus
MID4	denovo1019	1 k_Bacteria:p_Firmicutes:c_Bacillii:o_Bacillales:f_Bacillaceae:g_Bacillus
MID4	denovo1020	1 k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Streptophyta:f_g__
MID4	denovo1029	1 k_Bacteria:p_Nitrospira:c_Nitrospira:o_Nitrospirales:f_g__
MID4	denovo103	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID4	denovo1031	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales
MID4	denovo1034	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Anaerostipes
MID4	denovo1035	3 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Micrococcaceae:g__
MID4	denovo1037	5 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Corynebacteriaceae:g_Corynebacterium
MID4	denovo1040	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rickettsiales:f_Rickettsiaceae:g_Rickettsia
MID4	denovo1044	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Coprococcus
MID4	denovo1045	5 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Micrococcaceae:g_Kocuria
MID4	denovo1047	1 k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacteriales:f_Flavobacteriaceae:g_Flavobacterium
MID4	denovo1049	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Legionellales:f_g__
MID4	denovo105	4 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Brevibacteriaceae:g_Brevibacterium
MID4	denovo1052	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Veillonellaceae:g_Phosalcarctobacterium
MID4	denovo1053	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Beijerinckiaceae:g__
MID4	denovo1059	3 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Microbacterium
MID4	denovo106	3 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae

MID4	denovo1060	3	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_
MID4	denovo1064	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_
MID4	denovo1067	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Beijerinckiaceae:g_
MID4	denovo1068	2	k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Stenotrophomonas
MID4	denovo1069	1	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_Ruminococcus
MID4	denovo107	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID4	denovo1073	1	k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Stenotrophomonas
MID4	denovo1079	8	k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Aerococcaceae:g_Facklamia
MID4	denovo108	1	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Microbacterium
MID4	denovo1084	4	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
MID4	denovo1086	4	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_
MID4	denovo1088	3	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Kineosporiaceae:g_
MID4	denovo109	4	k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Enterobacterales:f_Enterobacteriaceae
MID4	denovo1090	2	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Amaricoccus
MID4	denovo1093	1	k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID4	denovo1094	51	k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Aerococcaceae:g_Facklamia
MID4	denovo1096	1	k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Legionellales:f_g_
MID4	denovo1099	2	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID4	denovo1103	1	k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes:o_Gemmatimonadales:f_g_
MID4	denovo1104	1	k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID4	denovo1105	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rhodobacter
MID4	denovo1107	1	k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_f_g_
MID4	denovo1108	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae
MID4	denovo1111	1	k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacteriales:f_Flavobacteriaceae:g_Flavobacterium
MID4	denovo1115	2	k_Bacteria:p_Cyanobacteria:c_Synechococcophycideae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_
MID4	denovo1117	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Acetobacteraceae:g_
MID4	denovo112	1	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID4	denovo1121	2	k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacteriales:f_[Weeksellaceae]:g_Chryseobacterium
MID4	denovo1122	2	k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Legionellales:f_Coxiellaceae:g_Rickettsiella
MID4	denovo1127	1	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae
MID4	denovo1128	1	k_Bacteria:p_Acidobacteria:c_iii1-8:o_32-20f_g_
MID4	denovo1129	1	k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Gemmatales:f_Isosphaeraceae:g_
MID4	denovo114	1	k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Chlorophytta:f_g_
MID4	denovo1149	5	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_Methylobacterium
MID4	denovo115	2	k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes:o_Gemmatimonadales:f_g_
MID4	denovo1150	5	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Roseburia
MID4	denovo1151	3	k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Plano coccaceae:g_Solibacillus
MID4	denovo1152	3	k_Bacteria:p_Cyanobacteria:c_Synechococcophycideae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID4	denovo1154	1	k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Alcaligenaceae:g_Pigmentiphaga
MID4	denovo1156	1	k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Luteimonas
MID4	denovo1157	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Amaricoccus
MID4	denovo1159	2	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Bradyrhizobiaceae:g_
MID4	denovo116	2	k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Streptococcaceae:g_Streptococcus
MID4	denovo1161	2	k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Staphylococcaceae:g_Salinicoccus
MID4	denovo1165	4	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Anaerococcus
MID4	denovo1167	2	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Anaerococcus
MID4	denovo1173	2	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Paracoccus
MID4	denovo1177	1	k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Enterobacterales:f_Enterobacteriaceae
MID4	denovo1178	3	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID4	denovo1185	1	k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Emticicia
MID4	denovo1186	1	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_g_
MID4	denovo1188	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Rhodobiaceae:g_Afifella
MID4	denovo1192	1	k_Bacteria:p_Gemmatimonadetes:c_Gemmatimonadetes:o_Gemmatimonadales:f_g_
MID4	denovo1195	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phyllobacteriaceae:g_Aminobacter
MID4	denovo1196	1	k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Gemmatales:f_Isosphaeraceae:g_
MID4	denovo1202	7	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_Methylobacterium
MID4	denovo1208	1	k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae:g_
MID4	denovo1217	3	k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Chlorophytta:f_g_
MID4	denovo122	1	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_Ruminococcus
MID4	denovo1227	2	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Rhizobiaceae
MID4	denovo123	2	k_Bacteria:p_Fibrobacteres:c_Fibrobacteria:o_258ds10:f_g_
MID4	denovo1231	4	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID4	denovo1235	1	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Clostridium
MID4	denovo1236	1	k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Rhodocytophaga
MID4	denovo1239	2	k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Aerococcaceae:g_Facklamia
MID4	denovo1244	3	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
MID4	denovo1245	1	k_Bacteria:p_Armatimonadetes:c_Armatimonadia:o_Armatimonadales:f_Armatimonadaceae:g_

MID4	denovo1246	1 k_Bacteria:p_Acidobacteria:c_Acidobacteria-6:o_iii1-15:f_mb2424:g__
MID4	denovo1247	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae
MID4	denovo1252	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylbacteriaceae:g_Methylbacterium
MID4	denovo1253	7 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Rhizobiaceae:g_Agrobacterium
MID4	denovo1255	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID4	denovo1257	21 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae
MID4	denovo1258	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g__
MID4	denovo1261	2 k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Rudanella
MID4	denovo1273	1 k_Bacteria:p_Armatimonadales:c_0319-6E2:o_f:g__
MID4	denovo1277	1 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Paenibacillaceae:g_Paenibacillus
MID4	denovo1278	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylbacteriaceae:g_Methylbacterium
MID4	denovo1279	2 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales
MID4	denovo1282	1 k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Gemmatales:f_Isosphaeraceae:g__
MID4	denovo1287	4 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Corynebacteriaceae:g_Corynebacterium
MID4	denovo1289	1 k_Bacteria:p_Chloroflexi:c_Thermomicrobia:o_JG30-KF-CM45:f_g__
MID4	denovo1290	10 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Dermabacteraceae:g_Brachybacterium
MID4	denovo1291	2 k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacteriales:f_Flavobacteriaceae:g_Flavobacterium
MID4	denovo1295	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Porphyromonadaceae:g_Porphyromonas
MID4	denovo1300	14 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_Friedmanniella
MID4	denovo1301	2 k_Bacteria:p_Actinobacteria:c_Coriobacteria:o_Coriobacteriales:f_Coriobacteriaceae:g_Collinsella
MID4	denovo1303	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Propionibacteriaceae:g__
MID4	denovo1306	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_g__
MID4	denovo1308	10 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Streptococcaceae:g_Streptococcus
MID4	denovo131	2 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_g__
MID4	denovo1311	3 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g__
MID4	denovo1313	1 k_Bacteria:p_Acidobacteria:c_Solibacteres:o_Solibacterales:f_g__
MID4	denovo1315	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_g__
MID4	denovo132	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Erythrobacteraceae:g__
MID4	denovo1321	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Pseudonocardiaceae:g__
MID4	denovo1324	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g__
MID4	denovo1329	1 k_Bacteria:p_Acidobacteria:c_[Chloracidobacteria]:o_RB41:f_Ellin6075:g__
MID4	denovo1330	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID4	denovo1334	38 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Streptococcaceae:g_Streptococcus
MID4	denovo1339	1 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_C111:g__
MID4	denovo134	15 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_g__
MID4	denovo1341	8 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Anærococcus
MID4	denovo1343	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingomonas
MID4	denovo1345	1 k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Alicyclobacillaceae:g_Alicyclobacillus
MID4	denovo1346	9 k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Streptococcaceae:g_Lactococcus
MID4	denovo1347	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Luteibacter
MID4	denovo1350	37 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Anærococcus
MID4	denovo1351	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_Skermanella
MID4	denovo136	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID4	denovo137	1 k_Bacteria:p_[Thermi]:c_Deinococci:o_Deinococcales:f_Trueperaceae:g_Truepera
MID4	denovo138	1 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f_g__
MID4	denovo145	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodobacteraceae:g_Rubellimicrobium
MID4	denovo15	1 k_Bacteria:p_Acidobacteria:c_[Chloracidobacteria]:o_RB41:f_g__
MID4	denovo152	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g__
MID4	denovo155	1 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Spirobaillales:f_g__
MID4	denovo156	1 k_Bacteria:p_Acidobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_g__
MID4	denovo158	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g__
MID4	denovo165	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_Rubricoccus
MID4	denovo169	1 k_Bacteria:p_Acidobacteria:c_Acidimicrobiales:f_g__
MID4	denovo170	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Anærococcus
MID4	denovo174	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g__
MID4	denovo175	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_g__
MID4	denovo178	2 k_Bacteria:p_Bacteroidetes:c_[Rhodothermi]:o_[Rhodothermales]:f_Rhodothermaceae:g_Rubricoccus
MID4	denovo18	3 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Pseudomonadales:f_Pseudomonadaceae:g_Pseudomonas
MID4	denovo180	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_Phenylbacterium
MID4	denovo181	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g__
MID4	denovo183	86 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae
MID4	denovo184	12 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Peptoniphilus
MID4	denovo185	6 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g__
MID4	denovo186	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Bradyrhizobiaceae:g_Balneimonas
MID4	denovo187	8 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g__
MID4	denovo190	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g__
MID4	denovo191	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g__

MID4	denovo193	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_Phenylobacterium
MID4	denovo194	1 k_Bacteria:p_Firmicutes:c_Bacillii:o_Bacillales:f_Paenibacillaceae:g_
MID4	denovo202	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Devosia
MID4	denovo204	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_g_
MID4	denovo206	1 k_Bacteria:p_Acidobacteria:c_[Chloracidobacteria]:o_DS-100:f_g_
MID4	denovo207	4 k_Bacteria:p_Actinobacteria:c_Acidimicrobia:o_Acidimicrobiales:f_C111:g_
MID4	denovo21	1 k_Bacteria:p_Firmicutes:c_Bacillii:o_Lactobacillales:f_g_
MID4	denovo210	4 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID4	denovo213	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Luteimonas
MID4	denovo218	4 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Oscillatoriales:f_Phormidiaceae:g_Phormidium
MID4	denovo219	3 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID4	denovo228	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingomonas
MID4	denovo23	1 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_
MID4	denovo232	46 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Anærococcus
MID4	denovo236	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Geodermatophilaceae:g_
MID4	denovo241	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_g_
MID4	denovo246	3 k_Bacteria:p_Acidobacteria:c_Solibacteres:o_Solibacteres:f_Solibacteraceae:g_
MID4	denovo247	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_g_
MID4	denovo249	1 k_Bacteria:p_Proteobacteria:c_Deltaproteobacteria:o_Myxococcales:f_g_
MID4	denovo25	2 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_
MID4	denovo252	5 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Intraspangiaceae:g_Kytococcus
MID4	denovo261	1 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Gaiellales:f_Gaiellaceae:g_
MID4	denovo269	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_f_g_
MID4	denovo272	8 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID4	denovo274	3 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_Ruminococcus
MID4	denovo281	3 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_
MID4	denovo282	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Stenotrophomonas
MID4	denovo284	1 k_Bacteria:p_Firmicutes:c_Bacillii:o_Lactobacillales:f_Streptococcaceae:g_Streptococcus
MID4	denovo288	4 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
MID4	denovo29	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_g_
MID4	denovo294	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Peptoniphilus
MID4	denovo296	9 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_WAL_1855D
MID4	denovo297	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Acetobacteraceae:g_
MID4	denovo310	5 k_Bacteria:p_Cyanobacteria:c_Synechococcophycideae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID4	denovo316	1 k_Bacteria:p_Bacteroidetes:c_Flavobacteria:o_Flavobacterales:f_Flavobacteriaceae:g_Flavobacterium
MID4	denovo321	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Micrococcaceae:g_Nesterenkonia
MID4	denovo325	4 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Anærococcus
MID4	denovo327	2 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Pseudonocardiaceae:g_Pseudonocardia
MID4	denovo329	2 k_Bacteria:p_Acidobacteria:c_Acidobacteria:o_Acidobacterales:f_Acidobacteriaceae:g_
MID4	denovo330	1 k_Bacteria:p_Gemmimonadetes:c_Gemm-5:o_f_g_
MID4	denovo335	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Micrococcaceae:g_Arhrobacter
MID4	denovo340	5 k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Chlorophyt:f_g_
MID4	denovo345	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Clostridium
MID4	denovo346	1 k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Oxalobacteraceae:g_
MID4	denovo347	1 k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_
MID4	denovo349	2 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Erythrobacteraceae:g_
MID4	denovo350	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Clostridium
MID4	denovo353	14 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID4	denovo355	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID4	denovo357	5 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Corynebacteriaceae:g_Corynebacterium
MID4	denovo370	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Propionibacteriaceae:g_Propionibacterium
MID4	denovo371	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_g_
MID4	denovo376	1 k_Bacteria:p_[Thermi]:c_Deinococcio_Deinococcales:f_Deinococcaceae:g_Deinococcus
MID4	denovo377	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nocardioidaceae:g_Propionicimonas
MID4	denovo381	1 k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Clostridium
MID4	denovo383	1 k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Gaiellales:f_Gaiellaceae:g_
MID4	denovo385	3 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Bacteroidaceae:g_Bacteroides
MID4	denovo387	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Aeromonadales:f_Aeromonadaceae:g_
MID4	denovo390	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Frigoribacterium
MID4	denovo393	18 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Lysobacter
MID4	denovo402	1 k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_S24-7:g_
MID4	denovo403	12 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Enterobacterales:f_Enterobacteriaceae:g_Buchnera
MID4	denovo404	5 k_Bacteria:p_Firmicutes:c_Bacillii:o_Lactobacillales:f_Enterococcaceae:g_Enterococcus
MID4	denovo408	1 k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Pseudomonadales:f_Moraxellaceae:g_
MID4	denovo409	1 k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Nakamurellaceae:g_
MID4	denovo414	1 k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
MID4	denovo415	9 k_Bacteria:p_Cyanobacteria:c_Synechococcophycideae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya

MID4	denovo427	4	k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID4	denovo431	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylbacteriaceae:g_Methylobacterium
MID4	denovo432	2	k_Bacteria:p_Cyanobacteria:c_Synechococcophycideae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya
MID4	denovo437	5	k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella
MID4	denovo440	1	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_Oscillospira
MID4	denovo441	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phyllobacteriaceae:g_Aminobacter
MID4	denovo446	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_
MID4	denovo448	4	k_Bacteria:p_Actinobacteria:c_Coriobacteria:o_Coriobacteriales:f_Coriobacteriaceae:g_
MID4	denovo45	2	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Kineosporiaceae:g_
MID4	denovo458	1	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f:_g_
MID4	denovo470	1	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f:_g_
MID4	denovo471	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Devosia
MID4	denovo472	1	k_Bacteria:p_Bacteroidetes:c_[Rhodothermi]:o_[Rhodothermales]:f_Rhodothermaceae:g_Rubricoccus
MID4	denovo476	1	k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Aerococcaceae:g_Facklamia
MID4	denovo478	1	k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f_Conexibacteraceae:g_
MID4	denovo480	1	k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Aerococcaceae:g_
MID4	denovo481	1	k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_[Paraprevotellaceae]:g_[Prevotella]
MID4	denovo484	1	k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f:_g_
MID4	denovo485	1	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Blautia
MID4	denovo486	1	k_Bacteria:p_Cyanobacteria:c_Chloroplast:o_Streptophyta:f:_g_
MID4	denovo487	63	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Dermabacteraceae:g_Dermabacter
MID4	denovo489	1	k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Pseudomonadales:f_Pseudomonadaceae:g_
MID4	denovo492	69	k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_Chroococcidiopsis
MID4	denovo494	1	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Coprococcus
MID4	denovo495	1	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Streptomycetaceae:g_Streptomyces
MID4	denovo498	3	k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f:_g_
MID4	denovo5	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID4	denovo500	7	k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_
MID4	denovo502	1	k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Leuconostocaceae:g_Leuconostoc
MID4	denovo504	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_
MID4	denovo509	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rickettsiales:f:_g_
MID4	denovo51	1	k_Bacteria:p_Nitrospirae:c_Nitrospira:o_Nitrosipales:f_Nitrospiraceae:g_Nitrosipa
MID4	denovo511	6	k_Bacteria:p_Bacteroidetes:c_Flavobacteriia:o_Flavobacteriales:f_[Weeksellaceae]:g_Chryseobacterium
MID4	denovo515	2	k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Gaiellales:f_Gaiellaceae:g_
MID4	denovo517	2	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_
MID4	denovo520	2	k_Bacteria:p_Acidobacteriac:[Chloracidobacteria]:o_RB41:f_Ellin6075:g_
MID4	denovo521	1	k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_f:_g_
MID4	denovo528	1	k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_
MID4	denovo530	1	k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus
MID4	denovo54	1	k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Plantomycetales:f_Plantomycetaceae:g_Plantomycetes
MID4	denovo540	2	k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Bacillaceae:g_Bacillus
MID4	denovo542	125	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Finegoldia
MID4	denovo550	1	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f:_g_
MID4	denovo553	1	k_Bacteria:p_Chloroflexi:c_TK17:o_mle1-48:f:_g_
MID4	denovo555	2	k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_
MID4	denovo559	1	k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_p-2534-18B5:g_
MID4	denovo56	2	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID4	denovo561	3	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_Coprococcus
MID4	denovo565	1	k_Bacteria:p_Acidobacteriac:[Chloracidobacteria]:o_RB41:f:_g_
MID4	denovo566	3	k_Bacteria:p_Gemmimatimonadetes:c_Gemmamatimonadetes:o_Gemmamatimonadales:f:_g_
MID4	denovo567	1	k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_
MID4	denovo569	1	k_Bacteria:p_[Thermi]:c_Deinococcio:_Deinococcales:f_Deinococcaceae:g_Deinococcus
MID4	denovo57	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae
MID4	denovo570	1	k_Bacteria:p_Proteobacteria:c_Gamma proteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Xanthomonas
MID4	denovo572	1	k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Hymenobacter
MID4	denovo574	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylcytstaceae:g_
MID4	denovo586	2	k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Gemmatales:f_Isosphaeraceae:g_
MID4	denovo587	1	k_Bacteria:p_Cyanobacteria:c_Nostocophycideae
MID4	denovo59	2	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Acetobacteraceae:g_
MID4	denovo592	1	k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_
MID4	denovo594	1	k_Bacteria:p_Nitrospirae:c_Nitrospira:o_Nitrosipales:f_Nitrospiraceae:g_Nitrosipa
MID4	denovo595	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Amaricoccus
MID4	denovo600	20	k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Oscillatoriae:f_Phormidiaceae:g_Phormidium
MID4	denovo601	1	k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Geodermatophilaceae:g_Modestobacter
MID4	denovo603	1	k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Gaiellales:f_Gaiellaceae:g_
MID4	denovo604	1	k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f:_g_
MID4	denovo605	4	k_Bacteria:p_Firmicutes:c_Bacilli:o_Gemellales:f_Gemellaceae:g_Gemella

MID4	denovo607	1 Unassigned
MID4	denovo608	1 <i>k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_</i>
MID4	denovo61	1 <i>k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Actinomycetaceae:g_Actinomyces</i>
MID4	denovo610	3 <i>k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingomonas</i>
MID4	denovo613	1 <i>k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_Sphingomonas</i>
MID4	denovo616	1 <i>k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phyllobacteriaceae</i>
MID4	denovo618	4 <i>k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Rhodoplanes</i>
MID4	denovo620	1 <i>k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Dermabacteraceae:g_Dermabacter</i>
MID4	denovo621	1 <i>k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_</i>
MID4	denovo624	1 <i>k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_</i>
MID4	denovo625	10 <i>k_Bacteria:p_Firmicutes:c_Bacillio_Lactobacillales:f_Lactobacillaceae:g_Lactobacillus</i>
MID4	denovo631	4 <i>k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_g_</i>
MID4	denovo639	1 <i>k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Geodermatophilaceae:g_Modestobacter</i>
MID4	denovo64	2 <i>k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Comamonadaceae</i>
MID4	denovo640	1 <i>k_Bacteria:p_Firmicutes:c_Clostridio_Clostridiales:f_Ruminococcaceae:g_</i>
MID4	denovo648	2 <i>k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Aurantimonadaceae:g_</i>
MID4	denovo651	1 <i>k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Aerococcaceae:g_Alloiococcus</i>
MID4	denovo654	2 <i>k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales</i>
MID4	denovo655	91 <i>k_Bacteria:p_Firmicutes:c_Clostridio_o_Clostridiales:f_[Tissierellaceae]:g_Anaerococcus</i>
MID4	denovo656	1 <i>k_Bacteria:p_Chlorobic_c_Ignivibacteria:o_Ignivibrionales:f_Ignivibracteriaceae:g_</i>
MID4	denovo657	2 <i>k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g_</i>
MID4	denovo658	2 <i>k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Pseudonocardiaecae:g_Pseudonocardia</i>
MID4	denovo661	2 <i>k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_g_</i>
MID4	denovo662	7 <i>k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_Prevotellaceae:g_Prevotella</i>
MID4	denovo664	1 <i>k_Bacteria:p_Cyanobacteria:c_Oscillatoriophycideae:o_Chroococcales:f_Xenococcaceae:g_</i>
MID4	denovo666	3 <i>k_Bacteria:p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Aerococcaceae:g_Aerococcus</i>
MID4	denovo667	1 <i>k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Solirubrobacterales:f_g_</i>
MID4	denovo668	2 <i>k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Neisseriales:f_Neisseriaceae:g_Neisseria</i>
MID4	denovo669	1 <i>k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_Ethanoligenens</i>
MID4	denovo67	1 Unassigned
MID4	denovo673	1 <i>k_Bacteria:p_WPS-2:c_o_f_g_</i>
MID4	denovo675	1 <i>k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Spirosoma</i>
MID4	denovo678	1 <i>k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Peptoniphilus</i>
MID4	denovo679	2 <i>k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Bacillaceae:g_Bacillus</i>
MID4	denovo688	1 <i>k_Bacteria:p_Actinobacteria:c_Thermoleophilia:o_Gaiellales:f_Gaiellaceae:g_</i>
MID4	denovo693	1 <i>k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Caulobacteraceae:g_</i>
MID4	denovo694	1 <i>k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Mycobacteriaceae:g_Mycobacterium</i>
MID4	denovo696	4 <i>k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Propionibacteriaceae:g_Propionibacterium</i>
MID4	denovo698	3 <i>k_Bacteria:p_Bacteroidetes:c_Bacteroidia:o_Bacteroidales:f_[Paraprevotellaceae]:g_CF231</i>
MID4	denovo699	16 <i>k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g_</i>
MID4	denovo70	7 <i>k_Bacteria:p_Cyanobacteria:c_Nostocophycideae:o_Nostocales:f_Nostocaceae:g_Cylindrospermopsis</i>
MID4	denovo701	2 <i>k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g_Roseomonas</i>
MID4	denovo703	1 <i>k_Bacteria:p_Firmicutes:c_Bacilli:o_Bacillales:f_Staphylococcaceae:g_Macrococcus</i>
MID4	denovo706	1 <i>k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Clostridiaceae:g_Clostridium</i>
MID4	denovo709	7 <i>k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Pseudomonadales:f_Moraxellaceae:g_Enhydrobacter</i>
MID4	denovo71	1 <i>k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Hyphomicrobiaceae:g_Devosia</i>
MID4	denovo713	1 <i>k_Bacteria:p_Bacteroidetes:c_Sphingobacteria:o_Sphingobacteriales:f_Sphingobacteriaceae:g_Sphingobacterium</i>
MID4	denovo714	1 <i>k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Erythrobacteraceae:g_</i>
MID4	denovo715	2 <i>k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Peptoniphilus</i>
MID4	denovo716	1 <i>k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Hymenobacter</i>
MID4	denovo719	1 <i>k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_g_</i>
MID4	denovo723	1 <i>k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_Hymenobacter</i>
MID4	denovo724	1 <i>k_Bacteria:p_Acidobacteria:c_Solibacteres:o_Solibacteres:f_g_</i>
MID4	denovo725	4 <i>k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Enterobacteriales:f_Enterobacteriaceae:g_Erwinia</i>
MID4	denovo728	2 <i>k_Bacteria:p_Plantomycetes:c_Plantomycetia:o_Gemmatales:f_Isosphaeraceae:g_</i>
MID4	denovo73	1 <i>k_Bacteria:p_FBP:c_o_f_g_</i>
MID4	denovo732	1 <i>k_Bacteria:p_Bacteroidetes:c_Cytophagia:o_Cytophagales:f_Cytophagaceae:g_</i>
MID4	denovo734	1 <i>k_Bacteria:p_Proteobacteria:c_Betaproteobacteria:o_Neisseriales:f_Neisseriaceae:g_Neisseria</i>
MID4	denovo736	1 <i>k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Parvimonas</i>
MID4	denovo739	1 <i>k_Bacteria:p_Cyanobacteria:c_Synechococcophycideae:o_Pseudanabaenales:f_Pseudanabaenaceae:g_Leptolyngbya</i>
MID4	denovo74	11 <i>k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Corynebacteriaceae:g_Corynebacterium</i>
MID4	denovo740	3 <i>k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_Lachnospiraceae:g_</i>
MID4	denovo742	1 <i>k_Bacteria:p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Frankiaceae:g_</i>
MID4	denovo746	19 <i>k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Enterobacteriales:f_Enterobacteriaceae:g_Candidatus_Regiella</i>
MID4	denovo747	1 <i>k_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadales:f_Sphingomonadaceae:g_</i>
MID4	denovo748	4 <i>k_Bacteria:p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Lysobacter</i>
MID4	denovo749	1 <i>k_Bacteria:p_Firmicutes:c_Clostridia:o_Clostridiales:f_g_</i>

MID4	denovo750	1 k_Bacteria:p__Bacteroidetes:c__Bacteroidia:o__Bacteroidales:f__Bacteroidaceae:g__Bacteroides
MID4	denovo752	1 k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Sphingomonadales:f__Sphingomonadaceae:g__
MID4	denovo76	1 k_Bacteria:p__Chloroflexic_Ellin6529:o__f__g__
MID4	denovo763	1 k_Bacteria:p__Actinobacteria:c__Thermoleophilia:o__Gaiellales:f__Gaiellaceae:g__
MID4	denovo766	2 k_Bacteria:p__Actinobacteria:c__Actinobacteria:o__Actinomycetales:f__Microbacteriaceae:g__Agrococcus
MID4	denovo767	1 k_Bacteria:p__Proteobacteria:c__Betaproteobacteria:o__Methylophilales:f__Methylophilaceae:g__Methylotenera
MID4	denovo769	1 k_Bacteria:p__Acidobacteria:c__Acidobacteria-6:o__iii1-15:f__mb2424:g__
MID4	denovo770	50 k_Bacteria:p__Cyanobacteria:c__Oscillatoriophycideae:o__Chroococcales:f__Xenococcaceae:g__
MID4	denovo771	1 k_Bacteria:p__Armatimonadales:c__Armatimonadia:o__Armatimonadales:f__Armatimonadaceae:g__
MID4	denovo776	4 k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__Ruminococcaceae:g__
MID4	denovo777	4 k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__Ruminococcaceae:g__
MID4	denovo783	1 k_Bacteria:p__Cyanobacteria:c__Oscillatoriophycideae:o__Oscillatoriales:f__Phormidiaceae:g__Phormidium
MID4	denovo786	3 k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales
MID4	denovo79	32 k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__[Tissierellaceae]:g__Anaerococcus
MID4	denovo790	1 k_Bacteria:p__Cyanobacteria:c__Chloroplast:o__Streptophyta:f__g__
MID4	denovo796	2 k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhodobacterales:f__Rhodobacteraceae:g__Rubellimicrobium
MID4	denovo799	3 k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__Lachnospiraceae:g__Coprococcus
MID4	denovo801	2 k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhodobacterales:f__Rhodobacteraceae:g__Rubellimicrobium
MID4	denovo803	2 k_Bacteria:p__Actinobacteria:c__Actinobacteria:o__Actinomycetales:f__Sporichthyaceae:g__
MID4	denovo806	1 k_Bacteria:p__Firmicutes:c__Bacilli:o__Bacillales:f__Bacillaceae:g__Bacillus
MID4	denovo807	5 k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__Lachnospiraceae:g__
MID4	denovo809	2 k_Bacteria:p__Planctomycetes:c__Planctomycetia:o__Planctomycetales:f__Planctomycetaceae:g__Planctomyces
MID4	denovo81	1 k_Bacteria:p__Acidobacteria:c__Acidobacteria-6:o__iii1-15:f__g__
MID4	denovo816	2 k_Bacteria:p__Firmicutes:c__Bacilli:o__Lactobacillales:f__Carnobacteriaceae:g__Desemzia
MID4	denovo818	2 k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhodobacterales:f__Rhodobacteraceae:g__Rubellimicrobium
MID4	denovo820	1 k_Bacteria:p__Proteobacteria:c__Gammaproteobacteria:o__Xanthomonadales:f__Xanthomonadaceae:g__
MID4	denovo821	6 k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhizobiales:f__Methylocystaceae:g__
MID4	denovo822	2 k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhodobacterales:f__Rhodobacteraceae:g__
MID4	denovo823	1 k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__Clostridiaceae:g__Clostridium
MID4	denovo825	1 k_Bacteria:p__Planctomycetes:c__Planctomycetia:o__Pirellulales:f__Pirellulaceae:g__
MID4	denovo826	1 k_Bacteria:p__Proteobacteria:c__Gammaproteobacteria:o__Pseudomonadales:f__Pseudomonadaceae:g__Pseudomonas
MID4	denovo829	10 k_Bacteria:p__Firmicutes:c__Bacilli:o__Lactobacillales:f__Carnobacteriaceae:g__Carnobacterium
MID4	denovo834	3 k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Sphingomonadales:f__Sphingomonadaceae:g__Sphingomonas
MID4	denovo836	6 k_Bacteria:p__Cyanobacteria:c__Oscillatoriophycideae:o__Chroococcales:f__Xenococcaceae
MID4	denovo839	1 k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__[Tissierellaceae]:g__Peptoniphilus
MID4	denovo84	2 k_Bacteria:p__Firmicutes:c__Bacilli:o__Lactobacillales:f__Aerococcaceae:g__Alloiococcus
MID4	denovo841	1 k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhizobiales:f__g__
MID4	denovo843	1 k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Xanthobacteraceae:g__Labrys
MID4	denovo844	1 k_Bacteria:p__Proteobacteria:c__Betaproteobacteria:o__Burkholderiales:f__Comamonadaceae:g__
MID4	denovo848	3 k_Bacteria:p__Cyanobacteria:c__4Cd-2:o__SM2F09:f__g__
MID4	denovo850	1 k_Bacteria:p__Cyanobacteria:c__Oscillatoriophycideae:o__Oscillatoriales:f__Phormidiaceae:g__Phormidium
MID4	denovo853	12 k_Bacteria:p__Proteobacteria:c__Betaproteobacteria:o__Burkholderiales:f__g__
MID4	denovo854	1 k_Bacteria:p__Cyanobacteria:c__Oscillatoriophycideae:o__Chroococcales:f__Xenococcaceae:g__
MID4	denovo856	1 k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__[Tissierellaceae]:g__ph2
MID4	denovo857	1 k_Bacteria:p__Proteobacteria:c__Gammaproteobacteria:o__Xanthomonadales:f__Sinobacteraceae:g__
MID4	denovo862	4 k_Bacteria:p__FBP:c__o__f__g__
MID4	denovo867	1 k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Sphingomonadales:f__Sphingomonadaceae:g__
MID4	denovo868	4 k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__[Tissierellaceae]:g__Anaerococcus
MID4	denovo870	2 k_Bacteria:p__Proteobacteria:c__Gammaproteobacteria:o__Pseudomonadales:f__Pseudomonadaceae:g__Pseudomonas
MID4	denovo872	1 k_Bacteria:p__Acidobacteria:c__iii1-8:o__32-20:f__g__
MID4	denovo873	2 k_Bacteria:p__Cyanobacteria:c__Synechococcophycideae:o__Pseudanabaenales:f__Pseudanabaenaceae:g__
MID4	denovo874	1 k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Rhodobacterales:f__Rhodobacteraceae:g__Amaricoccus
MID4	denovo878	4 k_Bacteria:p__Firmicutes:c__Bacilli:o__Lactobacillales:f__Streptococcaceae:g__Streptococcus
MID4	denovo88	2 k_Bacteria:p__Cyanobacteria:c__Synechococcophycideae:o__Pseudanabaenales:f__Pseudanabaenaceae:g__Leptolyngbya
MID4	denovo880	22 k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__Ruminococcaceae:g__Ruminococcus
MID4	denovo882	2 k_Bacteria:p__Cyanobacteria:c__Synechococcophycideae:o__Pseudanabaenales:f__Pseudanabaenaceae:g__Leptolyngbya
MID4	denovo885	11 k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__Ruminococcaceae:g__
MID4	denovo886	3 k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__[Tissierellaceae]:g__Peptoniphilus
MID4	denovo889	5 k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__Veillonellaceae:g__Megasphaera
MID4	denovo89	1 k_Bacteria:p__Firmicutes:c__Clostridia:o__Clostridiales:f__Lachnospiraceae:g__Coprococcus
MID4	denovo890	1 k_Bacteria:p__Bacteroidetes:c__[Rhodothermi]:o__[Rhodothermales]:f__Rhodothermaceae:g__
MID4	denovo896	9 k_Bacteria:p__Bacteroidetes:c__Bacteroidia:o__Bacteroidales:f__Prevotellaceae:g__Prevotella
MID4	denovo897	16 k_Bacteria:p__Actinobacteria:c__Actinobacteria:o__Actinomycetales:f__Corynebacteriaceae:g__Corynebacterium
MID4	denovo902	6 k_Bacteria:p__Cyanobacteria:c__Oscillatoriophycideae:o__Chroococcales:f__Xenococcaceae:g__
MID4	denovo905	1 k_Bacteria:p__Acidobacteria:c__Acidobacteria-6:o__iii1-15:f__mb2424:g__
MID4	denovo91	1 k_Bacteria:p__Proteobacteria:c__Alphaproteobacteria:o__Caulobacterales:f__Caulobacteraceae:g__Brevundimonas
MID4	denovo918	3 k_Bacteria:p__Actinobacteria:c__Actinobacteria:o__Actinomycetales:f__Microbacteriaceae:g__Rathayibacter

MID4	denovo922	1 k_Bacteria;p_Proteobacteria;c_Alphaproteobacteria:o_Rhizobiales:f_Bradyrhizobiaceae
MID4	denovo923	1 k_Bacteria;p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_
MID4	denovo925	1 k_Bacteria;p_Firmicutes:c_Bacilli:o_Bacillales:f_Paenibacillaceae:g_Paenibacillus
MID4	denovo926	1 k_Bacteria;p_Armatimonadetes:c_Chthonomonadetes:o_Chthonomonadales:f_Chthonomonadaceae:g_
MID4	denovo928	11 k_Bacteria;p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g_
MID4	denovo930	2 k_Bacteria;p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Aacetobacteraceae:g_
MID4	denovo933	1 k_Bacteria;p_Firmicutes:c_Bacilli:o_Bacillales:f_Paenibacillaceae:g_Paenibacillus
MID4	denovo934	1 k_Bacteria;p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rhodobacter
MID4	denovo935	1 k_Bacteria;p_Proteobacteria:c_Gammaproteobacteria:o_Xanthomonadales:f_Xanthomonadaceae:g_Thermomonas
MID4	denovo937	2 k_Bacteria;p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Brevibacteriaceae:g_Brevibacterium
MID4	denovo938	5 k_Bacteria;p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Brevibacteriaceae:g_Brevibacterium
MID4	denovo943	1 k_Bacteria;p_Proteobacteria:c_Alphaproteobacteria:o_Rhodospirillales:f_Rhodospirillaceae:g_
MID4	denovo947	3 k_Bacteria;p_Firmicutes:c_Clostridia:o_Clostridiales:f_Ruminococcaceae:g_
MID4	denovo95	2 k_Bacteria;p_Bacteroidetes:c_Flavobacteria:o_Flavobacterales:f_[Weeksellaceae]:g_Chryseobacterium
MID4	denovo950	1 k_Bacteria;p_Proteobacteria:c_Alphaproteobacteria:o_Rhodobacterales:f_Rhodobacteraceae:g_Rubellimicrobium
MID4	denovo953	8 k_Bacteria;p_Actinobacteria:c_Actinobacteria:o_Actinomycetales:f_Microbacteriaceae:g_Curtobacterium
MID4	denovo955	1 k_Bacteria;p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Methylobacteriaceae:g_Methylobacterium
MID4	denovo96	12 k_Bacteria;p_Firmicutes:c_Clostridia:o_Clostridiales:f_[Tissierellaceae]:g_Anerococcus
MID4	denovo963	3 k_Bacteria;p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadetes:f_Sphingomonadaceae:g_
MID4	denovo964	2 k_Bacteria;p_Proteobacteria:c_Gammaproteobacteria:o_Pseudomonadales:f_Moraxellaceae:g_Acinetobacter
MID4	denovo965	2 k_Bacteria;p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Aerococcaceae:g_Facklamia
MID4	denovo967	1 k_Bacteria;p_Gemmatimonadetes:c_Gemmatimonadetes:o_Gemmatimonadetes:f_g_
MID4	denovo97	1 k_Bacteria;p_Gemmatimonadetes:c_Gemm-3:o_f_g_
MID4	denovo973	7 k_Bacteria;p_Firmicutes:c_Bacilli:o_Bacillales:f_Staphylococcaceae:g_Ieotgalicoccus
MID4	denovo981	2 k_Bacteria;p_Firmicutes:c_Bacilli:o_Lactobacillales:f_Leuconostocaceae:g_
MID4	denovo983	1 k_Bacteria;p_Proteobacteria:c_Betaproteobacteria:o_Burkholderiales:f_Burkholderiaceae:g_Burkholderia
MID4	denovo991	1 k_Bacteria;p_Proteobacteria:c_Alphaproteobacteria:o_Rhizobiales:f_Phyllobacteriaceae:g_Mesorhizobium
MID4	denovo997	1 k_Bacteria;p_Proteobacteria:c_Alphaproteobacteria:o_Sphingomonadetes:f_Erythrobacteraceae:g_

Table S10.1. real node table for rOTU network (based on PhyloChip data) and visualization in Cytoscape

node_name	degree	weighted_degree	shared	genus&species
134	1	11756	CR8	Pseudomonas
158	1	12369	CR8	Pseudomonas
160	2	23826	CR8,CR5	Pseudomonas
182	1	11718	CR8	Pseudomonas
339	1	11707	UR	Pseudomonas
421	1	11633	UR	Pseudomonas
507	3	35998	CO,UR,CR5	Pseudomonas
508	1	11912	CR8	Pseudomonas
841	1	11549	CR8	Pseudomonas
1007	1	12220	CR8	Pseudomonas
1095	3	38096	CO,UR,CR5	Pseudomonas
1193	1	11637	CR5	Pseudomonas
1257	1	11740	CR8	Pseudomonas
1277	1	12278	CR8	Pseudomonas
1302	1	12212	CR8	Pseudomonas
1331	1	11775	UR	Pseudomonas
1440	2	23968	UR,CR5	Pseudomonas
1444	1	11758	CR8	Pseudomonas
1481	3	35976	CO,UR,CR8	Pseudomonas
1566	1	11458	UR	Pseudomonas
1567	1	12909	CR8	Pseudomonas
1638	3	35114	CO,UR,CR5	Pseudomonas
1650	1	12284	UR	Pseudomonas
1738	1	11618	CR8	Pseudomonas
1796	1	11889	CR8	Pseudomonas
1844	1	12972	CR8	Pseudomonas
1884	1	12643	CR8	Pseudomonas
1891	1	12019	CR8	Pseudomonas
2022	1	11733	CR8	
2058	1	11686	CR5	Pseudomonas
2281	2	24298	CR8,CR5	Pseudomonas stutzeri
3351	1	13676	UR	Acinetobacter johnsonii
3360	1	13234	UR	Acinetobacter johnsonii
3369	2	26649	CR8,CR5	Acinetobacter lwoffii
3464	1	13020	UR	Acinetobacter johnsonii
3482	1	13627	UR	Acinetobacter johnsonii
3494	1	12242	CR5	Acinetobacter lwoffii
3571	1	13256	UR	Acinetobacter johnsonii
3624	1	13699	UR	Acinetobacter johnsonii
3647	1	11952	UR	Acinetobacter schindleri
3672	1	13279	UR	Acinetobacter johnsonii
3719	2	23525	CR8,CR5	Pseudomonas
3736	2	23242	CR8,CR5	Pseudomonas
3746	1	13481	UR	Acinetobacter johnsonii
3752	1	12865	UR	Acinetobacter
3771	1	12595	UR	Acinetobacter

3774	1	11859	CR5	Acinetobacter johnsonii
3796	1	12346	UR	Acinetobacter schindleri
3871	1	13515	UR	Acinetobacter johnsonii
3925	3	37477	CO,UR,CR5	Pseudomonas mendocina
4011	1	11886	CR5	Kangiella
4039	1	13741	UR	Acinetobacter johnsonii
4055	1	13401	UR	Acinetobacter johnsonii
4078	1	12716	UR	Acinetobacter johnsonii
4093	2	24833	UR,CR5	Acinetobacter johnsonii
4102	1	13526	UR	Acinetobacter johnsonii
4273	1	12884	UR	
4421	1	11876	CR5	
4467	1	11825	CR5	
4497	1	11830	CR5	
4998	1	11749	CR5	Klebsiella
5272	2	24197	CR8,CR5	
5538	4	52738	CO,UR,CR8,CR5	
5687	1	11624	CR8	Pantoea
6094	1	11888	CR8	Pantoea
6129	1	12462	CR5	Pantoea
6203	1	11896	CR5	Citrobacter
6211	1	12825	CR5	
7636	1	12962	CR8	
7682	2	25893	CO_PMA,CR8_PMA	
7690	1	11898	CR8_PMA	Diaphorobacter
7833	1	12497	CR8	Variovorax paradoxus
7871	2	25114	UR,CR8	Diaphorobacter
7899	1	1	CO_PMA	
7917	1	12216	CO	
8038	1	12896	CR8	Diaphorobacter
8070	2	25100	CR8,CR5_PMA	Diaphorobacter
8071	2	27034	CR8,CR5	Diaphorobacter
8086	1	13833	CO_PMA	Diaphorobacter
8217	2	25228	CO_PMA,CR8_PMA	Diaphorobacter
8247	1	13453	CR8	Diaphorobacter
8249	1	12712	UR	Diaphorobacter
8300	3	39444	CO,UR,CR5	Diaphorobacter
8316	1	12351	CR8	Diaphorobacter
8368	1	12049	UR	
8385	1	13005	CO_PMA	Diaphorobacter
8437	1	12023	CR8	Diaphorobacter
8529	1	12536	CR8	Diaphorobacter
8546	2	24494	CR8,CR5_PMA	Diaphorobacter
8593	1	11565	CR8	Diaphorobacter
8663	2	23753	CO,CR8	Diaphorobacter
8808	2	23506	UR,CR8	Delftia
8842	1	11984	CR8	Diaphorobacter
8845	1	11981	CO_PMA	Diaphorobacter
8961	1	1	CR5_PMA	
8983	2	24910	UR,CR8	Diaphorobacter

9071	2	24666	CO_PMA,CR8_PMA	
9082	2	25087	CO_PMA,CR8_PMA	
9103	3	36434	CO,CO_PMA,CR8	Rhodoferax
9140	1	12197	CO	
9176	2	2	CO_PMA,CR5_PMA	
9182	1	12656	CR8	Diaphorobacter
9232	3	36787	CO,UR,CR8	Rhodoferax
9253	1	11752	CR8	Diaphorobacter
9359	1	12169	CO	Simplicispira
9380	1	12967	CO	Diaphorobacter
9418	1	13016	CO	Diaphorobacter
9425	1	12368	CR8_PMA	
9427	1	12207	CR8_PMA	Verminephrobacter eiseniae
9474	1	11626	CR8_PMA	Diaphorobacter
9571	1	12984	CR8	Diaphorobacter
9579	1	11467	CO_PMA	Diaphorobacter
9615	1	12633	CR8_PMA	Diaphorobacter
9619	2	23215	CO_PMA,CR8_PMA	Verminephrobacter eiseniae
9623	1	12772	CO	Diaphorobacter
9681	1	12275	CO	
9742	1	12943	CO	Diaphorobacter
9872	2	26180	UR,CR5	Diaphorobacter
9917	1	11769	CR8	Polaromonas
9921	1	12107	UR	Rhodoferax
9931	1	12580	UR	Diaphorobacter
9938	1	12942	CR8	Diaphorobacter
10116	1	12142	CO	
10173	2	25155	CO,CO_PMA	Diaphorobacter
10344	2	27350	CR8,CR5_PMA	Variovorax paradoxus
10362	1	12653	CR8_PMA	
10400	2	24224	CR8,CR5_PMA	Diaphorobacter
10409	1	12246	CR8	Diaphorobacter
10464	0	0	COURCR8CR5CO_PMAUR_PMACR8_PMACR5_PMA	
10596	1	12310	CO	Aquabacterium
10657	2	25385	CO,CR8	Aquabacterium
10672	4	4	CR8,CR5,CO_PMA,CR8_PMA	
10737	1	11758	CO	Methylibium
10744	4	52124	CO,UR,CR8,CR5	Aquabacterium
10760	3	36920	CO,UR,CR8	Aquabacterium
10804	2	24143	CO_PMA,CR8_PMA	Aquabacterium
10851	1	12033	CR8	Aquabacterium
10870	4	50992	CO,UR,CR8,CR5	Aquabacterium
10995	2	24075	CO,UR	Aquabacterium
11025	1	12890	UR	Aquabacterium
11137	2	25142	CO_PMA,CR8_PMA	Aquabacterium
11150	4	52387	CO,UR,CR8,CR5	Aquabacterium
11204	2	27435	CO,CR8	Aquabacterium
11208	1	12047	CO	Aquabacterium
11318	1	13008	CO	Aquabacterium
11490	1	12950	CO	Aquabacterium

11543	2	24445	UR,CR8	Aquabacterium
11612	1	12635	CR8	Aquabacterium
11636	2	25817	CO,CR8	Aquabacterium
11657	5	62261	CO,CR8,CR5,CO_PMA,CR8_PMA	Aquabacterium
11724	3	38550	CO,UR,CR5	Aquabacterium
11745	1	12263	CR8_PMA	Aquabacterium
11757	1	13437	CO_PMA	Aquabacterium
11853	2	25465	CR8_PMA,CR5_PMA	Aquabacterium
11897	3	35916	CO,UR,CR8	Aquabacterium
11929	1	11737	CO	Aquabacterium
11964	1	13913	CR8	Aquabacterium
11980	1	12000	CO	Aquabacterium
12094	4	52288	CO,CO_PMA,CR8_PMA,CR5_PMA	Aquabacterium
12146	1	12123	CR8	Aquabacterium
12175	2	24030	CO,CR8	Aquabacterium
12187	2	23723	CO,CR8	Aquabacterium
12211	2	23596	CO,UR	Aquabacterium
12217	3	39982	CO,UR,CR5	Aquabacterium
12326	6		6 UR,CR8,CR5,CO_PMA,CR8_PMA,CR5_PMA	Aquabacterium
12333	1	11483	UR	Aquabacterium
12392	3	38325	CO,UR,CR8	Aquabacterium
12476	1	13037	CR8	Aquabacterium
12529	2		2 CO_PMA,CR5_PMA	Aquabacterium
12530	1	12429	CR8	Aquabacterium
12654	1	12277	CR8	Aquabacterium
12745	2	24538	CO,CR8	Aquabacterium
12809	1	12727	CR8	Aquabacterium
12870	2	24968	CO,CR8	Aquabacterium
12882	1	12049	CO	Aquabacterium
12912	4	48528	CO,UR,CR8,CR5	Aquabacterium
12928	1	11758	CO	Aquabacterium
12934	1	11996	CO	Methylibium
13088	1	11709	CO_PMA	Aquabacterium
13091	2	24413	CO,UR	Methylibium
13092	2	23615	CO,UR	Aquabacterium
13093	1	11390	CR8_PMA	Aquabacterium
13106	2	23898	CO,UR	Aquabacterium
13122	1	12581	CO	Methylibium
13162	1	13191	CR8	Aquabacterium
13274	3	37348	CO,UR,CR8	Aquabacterium
13362	1	11753	CO	Aquabacterium
13400	1	12774	CR8	Aquabacterium
13402	1	13124	CR8	Aquabacterium
13681	1	11532	CR8	Aquabacterium
13763	1	12079	CR8	Aquabacterium
13769	2	22817	CO_PMA,CR8_PMA	Aquabacterium
13882	2	23790	CO,CR8	Aquabacterium
13991	1	12708	CR8	Aquabacterium
14055	2	23036	CO_PMA,CR8_PMA	Aquabacterium
14121	1	12523	CR8	Aquabacterium

14137	1	11444	CR8_PMA	Aquabacterium
14183	1	12913	CR8	Aquabacterium
14194	3	37003	CR8,CO_PMA,CR8_PMA	Aquabacterium
14199	3	37881	CO,UR,CR8	Aquabacterium
14292	1	12474	CO	Aquabacterium
14477	2	25145	UR,CR8	Pandoraea
14545	4	48100	UR,CR8,CR5,CO_PMA	Pandoraea
14597	1	13266	CR8	Massilia timonae
14599	1	13755	UR	Massilia timonae
14622	1	12390	CO	Burkholderia
14633	1	11705	UR	Oxalobacter
14641	1	12678	CR8	Massilia timonae
14678	1	11741	UR	sfA
14754	1	12870	CR8	Massilia timonae
14779	1	13275	CR8	Massilia timonae
14831	1	13172	CO	
15016	2	24065	CO,CR8	
15035	2	25554	UR,CR8	Massilia timonae
15127	1	12926	CO	
15249	1	13637	UR	Massilia timonae
15292	2	25731	UR,CR8	Burkholderia mallei
15342	2	26324	UR,CR8	Massilia timonae
15459	2	25364	CO,CR8	
15495	1	12796	UR_PMA	
15508	1	12327	CR8	
15533	1	12038	CR8	
15566	1	12049	CR8	
15570	1	11656	CR8	Massilia timonae
15581	3	38273	CO,UR,CR5	
15605	1	12317	CR8	
15621	1	12073	CO	
15647	1	11763	CR8	Massilia timonae
15679	1	11703	CO	
15685	2	27643	CR8,CR5	Massilia timonae
15719	1	12076	CO	Massilia timonae
15731	2	24220	CO,CR8	
15831	2	23825	CO,CR8	
15908	1	11656	UR	Pseudoxanthomonas
15917	1	12449	CO	Thermomonas
15920	1	12350	CO	Rhodanobacter
15941	1	12165	UR	Stenotrophomonas
15978	1	11716	CO	
15987	1	12425	CO	Thermomonas
16000	1	12480	CR8	
16030	1	11899	CR5	Lysobacter
16065	1	12179	CO	Succinivibrio
16096	1	12437	UR	
16161	2	24748	CO,UR	Xanthomonas axonopodis
16221	2	25326	CO,CR5	Lysobacter
16250	1	12327	UR	Stenotrophomonas

16340	1	12229	CO	Rhodanobacter
16347	0	0	COURCR8CR5CO_PMAUR_PMACR8_PMACR5_PMA	
16349	1	12525	CO	Luteimonas mephitis
16376	1	12836	CO	Rhodanobacter
16384	4	50057	CO,CO_PMA,CR8,CR5	
16425	2	24591	CO,UR	Xanthomonas axonopodis
16495	2	24530	CO,CR5	Lysobacter
16520	1	12313	UR	Pseudomonas geniculata
16522	1	12324	UR	Pseudomonas geniculata
16590	1	12709	UR	Pseudomonas geniculata
16687	1	13050	CO	Thauera
16717	1	11539	CR8	
16734	1	12643	CO	Lysobacter
16819	2	24195	CO,CR5	Lysobacter
16847	2	24013	CO,UR	Lysobacter
16916	2	24506	CO,UR	Xanthomonas axonopodis
16937	1	13983	CO	
16971	1	12652	UR	Stenotrophomonas
17015	1	12326	CR8	Dyella
17051	1	12867	UR	Comamonas
17229	1	12324	CR5	Stenotrophomonas
17322	1	12943	UR	Pseudomonas geniculata
17348	1	12006	UR	Xanthomonas axonopodis
17357	1	12146	CO	Rhodanobacter
17392	1	13006	CO	Dokdonella
17427	1	11815	CR5	Eubacterium rectale
17447	1	12614	CR5	Eubacterium rectale
17519	2	23725	UR,CR8	Eubacterium rectale
17661	1	11996	CR5	Eubacterium rectale
17677	1	12227	CR5	Eubacterium rectale
17726	1	12282	CR5	Eubacterium rectale
17744	1	12028	CR5	Eubacterium rectale
17765	2	26914	CR8,CR5	Eubacterium rectale
17792	1	11699	CR5	Eubacterium rectale
17828	1	12203	CR5	Eubacterium rectale
17852	2	23864	CR8,CR5	Roseburia
17893	1	12779	CR5	Eubacterium rectale
17943	1	11766	CR5	Eubacterium rectale
17964	1	12249	CR5	Eubacterium rectale
18113	1	11847	CR5	Eubacterium rectale
18137	1	11744	CR8	Eubacterium rectale
18175	1	12365	CR5	Eubacterium rectale
18222	1	12241	CR5	Eubacterium rectale
18252	1	12119	CR5	Eubacterium rectale
18254	1	12380	CR5	Eubacterium rectale
18281	1	11633	CR5	Eubacterium rectale
18761	1	11860	CR8	Ruminococcus
19470	1	12693	CR8	
19752	1	11891	CO	Lachnospira
20192	1	12194	CO	Coprococcus

20652	3	36748	CO,UR,CR5		Blautia
20782	2	23805	UR,CR8		
21155	2	23982	CO,CR5		Blautia
22140	1	12225	CR8		
22190	1	12305	CO		
22993	1	12214	CR8		Coprococcus
23140	1	11862	CO		Butyrivibrio
23182	1	12434	CO		Butyrivibrio
23349	1	12089	CO		
23897	1	12552	CO		
24119	1	12096	CO		
24363	1	12731	CR8		Coprococcus
24427	1	12205	CR5		Faecalibacterium
24447	1	13098	CO		Faecalibacterium
24455	1	11751	CO		Faecalibacterium
24509	3	38279	CO,UR,CR5		Faecalibacterium
24544	1	12347	CR8		Faecalibacterium
24600	1	11860	CO		Faecalibacterium
24602	2	24576	CO,CR8		Faecalibacterium prausnitzii
24608	1	11753	CO		Faecalibacterium
24612	1	11763	CO		
24646	1	11747	CO		Faecalibacterium
24700	3	35605	CO,UR,CR5		Faecalibacterium prausnitzii
24841	2	23811	CO,CR5		Faecalibacterium prausnitzii
24857	2	24271	CO,CR5		Faecalibacterium
24978	3	37212	CO,UR,CR5		Faecalibacterium
24986	1	12312	CR8		Faecalibacterium
24996	2	23926	CO,CR8		Faecalibacterium
25077	1	11714	CR5		Faecalibacterium prausnitzii
25078	2	24021	CO,CR8		Faecalibacterium prausnitzii
25126	1	11802	CO		Faecalibacterium
25139	3	37088	CO,UR,CR5		Faecalibacterium prausnitzii
25221	1	12482	CR8		Faecalibacterium
25273	1	11677	CO		Faecalibacterium prausnitzii
25288	1	12453	CO		Faecalibacterium prausnitzii
25291	1	11832	CO		Faecalibacterium
25319	1	11767	CO		Faecalibacterium prausnitzii
25325	1	11524	CR8		Faecalibacterium prausnitzii
25341	2	26030	CO,CR8		Faecalibacterium
25380	1	12952	CO		Faecalibacterium
25425	2	24198	UR,CR8		Faecalibacterium prausnitzii
25471	1	13159	UR		Faecalibacterium
25499	1	12043	CO		Faecalibacterium
25549	1	11785	CO		Faecalibacterium prausnitzii
25558	1	12000	CO		Faecalibacterium
25604	1	11867	CO		Faecalibacterium
25637	3	35741	CO,UR,CR5		Faecalibacterium
25654	1	11727	CR8		Faecalibacterium
25719	1	11818	CO		Faecalibacterium
25759	1	11729	CO		Faecalibacterium prausnitzii

25804	1	11964	CO	Faecalibacterium prausnitzii
25901	3	39502	CO,UR,CR5	Faecalibacterium prausnitzii
25914	1	12021	CR5	Faecalibacterium prausnitzii
25950	2	23955	CO,CR8	Faecalibacterium prausnitzii
25994	2	24890	CO,CR8	Faecalibacterium
26041	2	23567	CO,CR8	Faecalibacterium
26109	2	23753	CO,CR5	Faecalibacterium prausnitzii
26129	1	11990	CO	Faecalibacterium
26219	1	12034	CO	Faecalibacterium prausnitzii
26227	3	37286	CO,UR,CR5	Faecalibacterium
26269	1	11708	CR5	
26288	3	39653	CO,UR,CR5	Faecalibacterium prausnitzii
26356	1	11745	CO	Faecalibacterium
26371	3	36985	CO,UR,CR5	Faecalibacterium prausnitzii
26393	1	11615	CR8	Faecalibacterium prausnitzii
26430	1	11954	CO	Faecalibacterium prausnitzii
26462	2	25453	CO,CR8	Faecalibacterium prausnitzii
26514	1	11555	CR8	Faecalibacterium prausnitzii
26599	2	24228	CO,CR5	Faecalibacterium
26611	2	23554	CO,CR5	Faecalibacterium
26613	1	11866	CO	Faecalibacterium prausnitzii
26744	1	11733	CO	
26746	1	12132	CO	Ruminococcus bromii
26768	3	36254	CO,UR,CR5	Ruminococcus
26910	1	11990	CO	Ruminococcus bromii
26984	3	35344	CO,UR,CR5	
27392	2	24035	CR8,CR5	Ruminococcus
27490	1	12561	CR8	Clostridium
27536	1	12066	CR5	Ruminococcus
28064	1	12041	UR	
28113	2	25545	CO,CR8	
28159	1	12607	CR5	Ruminococcus
28504	3	38547	CO_PMA,CR8_PMA,CR5_PMA	Corynebacterium
28641	1	13073	CO_PMA	Corynebacterium
28655	1	13034	CR5	Corynebacterium
28664	2	24340	CO,CR5	Corynebacterium
28691	1	12293	CO_PMA	Corynebacterium
28754	3	40691	CO,CO_PMA,CR5	Corynebacterium
28768	1	12409	CR5	Corynebacterium
28819	1	13820	CR8	Corynebacterium
28952	1	13251	CR8	Corynebacterium
28961	2	22447	CO_PMA,CR5_PMA	Corynebacterium
28989	2	24320	CO,CR5	Corynebacterium
29039	0	0	COURCR8CR5CO_PMAUR_PMACR8_PMACR5_PMA	
29061	1	12804	UR	Corynebacterium
29382	2	2	CO_PMA,CR8_PMA	
29693	1	11892	CO_PMA	Corynebacterium
29743	1	12633	CO_PMA	Corynebacterium
29861	1	1	CO_PMA	
29901	3	37510	CO,UR,CR5	Corynebacterium

29909	2	26071	CO,CR5	Corynebacterium
30016	1	12156	CR5	Corynebacterium
30017	4	53743	CO,UR,CR8,CR5	Corynebacterium
30066	0	0	COURCR8CR5CO_PMAUR_PMACR8_PMACR5_PMA	
30142	1	11929	CO_PMA	Corynebacterium
30177	1	12916	CO_PMA	Corynebacterium
30421	1	13719	CR5	Corynebacterium
30430	2	25588	CO_PMA,CR8_PMA	Corynebacterium
30513	3	36418	CO_PMA,CR8_PMA,CR5_PMA	Corynebacterium
30645	1	12818	CR8	Corynebacterium
30652	1	13013	CO_PMA	Corynebacterium
30734	1	12555	CO_PMA	Corynebacterium
30787	6	6	UR,CR8,CR5,CO_PMA,CR8_PMA,CR5_PMA	
30849	2	25698	CO_PMA,CR5_PMA	Corynebacterium
30882	1	12450	UR	Corynebacterium
30922	2	25577	CO,CR5	Corynebacterium
30996	4	53367	CO,CO_PMA,CR8_PMA,CR5_PMA	Corynebacterium
31080	3	38006	CO,UR,CR5	Corynebacterium
31163	2	24939	CR8,CR5_PMA	Corynebacterium
31205	3	37317	CO,UR,CR5	Corynebacterium
31218	3	36560	CO_PMA,CR8_PMA,CR5_PMA	Corynebacterium
31307	1	12838	CR8_PMA	Corynebacterium
31464	4	4	CR8,CO_PMA,CR8_PMA,CR5_PMA	
31479	1	13557	CR8	Corynebacterium
31616	1	13126	UR	Corynebacterium
31655	1	13168	CR8	Corynebacterium
31702	1	12178	CO_PMA	Corynebacterium
31823	1	13325	CO_PMA	Corynebacterium
32200	5	62261	CO,CR8,CR5,CO_PMA,CR8_PMA	Corynebacterium
32344	1	13429	CO_PMA	Corynebacterium
32357	2	27220	UR,CR5	Corynebacterium
32411	1	12582	CO_PMA	Corynebacterium
32497	3	3	CO_PMA,CR8_PMA,CR5_PMA	
32607	2	26344	CR8,CR5	Corynebacterium
32857	1	13228	CR8	Corynebacterium
33058	4	53650	CO,UR,CR8,CR5	Corynebacterium
33189	1	11653	UR	Corynebacterium
33258	2	24025	CO_PMA,CR8_PMA	Corynebacterium
33300	1	12993	CR5	Corynebacterium
33488	1	14094	CR5	Corynebacterium
33570	1	11937	CR8	Corynebacterium
33576	1	13463	CR8	Corynebacterium
33646	1	12764	CR8	Corynebacterium
33688	1	13395	CR8	Corynebacterium
33700	1	13858	CO	Corynebacterium
33847	1	13074	CR8	Corynebacterium
33873	3	38827	CR8,CO_PMA,CR8_PMA	Corynebacterium
33892	1	13248	CR5	Corynebacterium
33895	1	10972	CR5_PMA	Corynebacterium
34124	1	13744	CR5	Corynebacterium

34161	3	3	CO_PMA,CR8_PMA,CR5_PMA	
34240	4	51595	CO,UR,CR8,CR5	Corynebacterium
34246	1	13293	CR8	Corynebacterium
34266	1	11950	CR8_PMA	Corynebacterium
34318	1	11700	CO_PMA	Corynebacterium
34389	1	12911	CO_PMA	Corynebacterium
34438	3	39709	CO,CO_PMA,CR5	Corynebacterium
34464	4	54584	CO,UR,CR8,CR5	Corynebacterium
34708	1	12920	CO_PMA	Corynebacterium
34741	4	49786	CO,UR,CR8,CR5	Corynebacterium
34803	1	13149	CR8	Corynebacterium
35009	1	12781	CO_PMA	Corynebacterium
35030	1	13334	CO_PMA	Corynebacterium
35042	3	3	CO_PMA,CR8_PMA,CR5_PMA	
35066	4	51697	CR8,CR5,CO_PMA,CR8_PMA	Corynebacterium
35165	1	13478	CO_PMA	Corynebacterium
35183	2	26661	CR8,CR5	Corynebacterium
35227	2	25161	CO,CR5	Corynebacterium
35235	2	27117	CO_PMA,CR8_PMA	Corynebacterium
35240	1	12368	CO_PMA	Corynebacterium
35254	2	24972	CO_PMA,CR8_PMA	Corynebacterium
35383	1	1	CO_PMA	
35512	1	11867	CO_PMA	Corynebacterium
35586	3	39516	CO,UR,CR5	Corynebacterium
35629	2	27435	UR,CR5	Corynebacterium
35716	2	25344	CR8,CR5	Corynebacterium
35819	1	13134	CO_PMA	Corynebacterium
35860	1	11402	CO_PMA	Corynebacterium
36035	2	23560	CO_PMA,CR8_PMA	Corynebacterium
36089	1	13245	CR8	Corynebacterium
36091	1	12653	CO_PMA	Corynebacterium
36137	1	13103	CO_PMA	Corynebacterium
36142	4	52660	CO,UR,CR8,CR5	Corynebacterium
36231	1	12989	CR8	Corynebacterium
36381	2	26971	UR,CR8	Corynebacterium
36510	1	12104	CO_PMA	Corynebacterium
36542	1	13663	CR5	Corynebacterium
36693	2	22863	CO_PMA,CR8_PMA	Corynebacterium
36754	1	12844	CR5	Corynebacterium
36759	1	13071	CO	Corynebacterium
36762	2	26832	UR,CR8	Corynebacterium
36763	2	26804	CO,CR5	Corynebacterium
36770	1	13549	CR5	Corynebacterium
36772	1	13104	CR8	Corynebacterium
36773	1	12416	CR8	Corynebacterium
36785	4	53260	CO,UR,CR8,CR5	Corynebacterium
36787	3	36270	CO,UR,CR5	Corynebacterium
36803	4	55215	CO,UR,CR8,CR5	Corynebacterium
36804	2	26351	CR8,CR5	Corynebacterium
36823	2	24424	CO,CR5	Corynebacterium

36834	1	12612	CR8	Corynebacterium
36837	3	38192	CO,UR,CR5	Corynebacterium
36867	3	39604	CO,UR,CR5	Corynebacterium
36869	1	12469	CR8	Corynebacterium
36880	1	12178	CR5	Corynebacterium
36895	2	26601	CR8,CR5	Corynebacterium
36899	1	12809	UR	Corynebacterium flavesiens
36900	1	13361	CR8	Corynebacterium
36906	2	26445	CR8,CR5	Corynebacterium
36908	1	13104	CR5	Corynebacterium
36911	1	13247	CO	Corynebacterium
36930	2	24790	CO,CR8	Corynebacterium
36931	2	24103	CO,CR5	Corynebacterium
36933	2	27085	CO,CR5	Corynebacterium
36937	4	53580	CO,UR,CR8,CR5	Corynebacterium
36940	1	12317	CR5	Corynebacterium
36943	4	53492	CO,UR,CR8,CR5	Corynebacterium
36949	1	12791	CR5	Corynebacterium
36955	1	13365	CR5	Corynebacterium
36957	1	12861	CR8	Corynebacterium
36960	1	13304	CR8	Corynebacterium
36980	1	13797	CR5	Corynebacterium
36983	2	23677	CO,CR8	Corynebacterium
36992	1	13529	CR8	Corynebacterium
37002	1	13462	UR	Corynebacterium
37004	1	13481	CR5	Corynebacterium
37007	3	37907	CO,UR,CR5	Corynebacterium
37025	1	12507	CO	Corynebacterium
37029	1	14079	CR5	Corynebacterium
37036	1	12285	CO	Corynebacterium
37046	2	26222	CR8,CR5	Corynebacterium
37061	1	12684	CO	Corynebacterium
37071	3	39651	CO,UR,CR5	Corynebacterium
37076	2	24143	CO_PMA,CR8_PMA	Corynebacterium
37086	1	12254	CR5	Corynebacterium
37089	4	53932	CO,UR,CR8,CR5	Corynebacterium
37097	2	25964	CR8,CR5_PMA	Corynebacterium
37107	3	39220	CO,UR,CR8	Corynebacterium
37124	3	37532	CO,UR,CR8	Corynebacterium
37125	3	39444	CO,UR,CR8	Corynebacterium
37129	4	54442	CO,UR,CR8,CR5	Corynebacterium
37151	2	27471	CR8,CR5	Corynebacterium
37161	2	26572	CO,CR5	Corynebacterium
37166	3	35433	CO,UR,CR8	Corynebacterium
37170	2	25369	CR8,CR5	Corynebacterium
37172	2	24267	CR8,CR5	Corynebacterium
37178	4	51528	CO,UR,CR8,CR5	Corynebacterium
37180	1	13117	CR5	Corynebacterium
37183	2	25551	CO,CR5	Corynebacterium
37193	3	39173	CO,UR,CR8	Corynebacterium

37198	2	26366	UR,CR8	Corynebacterium
37199	2	25129	CR8,CR5	Corynebacterium
37201	1	12505	CR8	Corynebacterium
37226	4	49693	CO,UR,CR8,CR5	Corynebacterium
37232	1	13298	CR8	Corynebacterium
37247	2	25743	CR8,CR5	Corynebacterium jeikeium
37253	2	23350	CO_PMA,CR8_PMA	Corynebacterium
37255	1	13203	CR8	Corynebacterium
37259	1	12811	CR8	Corynebacterium
37264	1	11960	CR5	Corynebacterium
37268	3	35839	CO,UR,CR5	Corynebacterium
37280	2	27077	CO,CR8	Corynebacterium riegelii
37293	4	49133	CO,UR,CR8,CR5	Corynebacterium
37300	2	27391	UR,CR8	Corynebacterium
37312	2	24874	CO,UR	Corynebacterium variabile
37315	4	53592	CO,UR,CR8,CR5	Corynebacterium
37316	1	12420	UR	Corynebacterium
37325	1	13116	CO	Corynebacterium
37329	2	25406	UR,CR5	Corynebacterium
37358	1	14085	CR5	Corynebacterium
37364	1	11905	CR8	Corynebacterium
37365	2	27939	CR8,CR5	Corynebacterium
37390	1	11803	CO	Rhodococcus
37393	1	12410	CR8	Actinokineospora diospyrosa
37394	3	37327	CO,UR,CR5	
37398	2	25361	CO,CR5	Rhodococcus
37403	1	12059	CR8	Mycobacterium
37407	1	12491	CR8	Actinokineospora diospyrosa
37429	3	38776	CO,UR,CR5	
37449	1	12985	CR5	Gordonia
37494	1	13110	CR5	
37506	1	13089	CO	Rhodococcus
37536	3	36799	CO,UR,CR5	
37549	1	12052	CO	
37562	1	12139	CR8	Rhodococcus
37566	2	25278	UR,CO_PMA	
37576	3	39072	CO,UR,CR5	
37579	1	13213	CR5	
37598	1	13184	CO	Frankia
37609	1	11658	CR8	
37611	1	12146	CR8	Amycolatopsis
37619	1	13158	CR8	Actinokineospora diospyrosa
37622	1	13291	CR5	Gordonia
37630	2	23712	CO,CR8	Mycobacterium
37633	1	12562	CR5	
37653	1	12508	UR	Gordonia
37671	2	25063	CO,CR8	Rhodococcus
37679	3	36481	CO,UR,CR5	Rhodococcus
37688	3	38687	CO,UR,CR5	Mycobacterium
37691	1	12018	CR8	Rhodococcus

37726	3	41645	CO,UR,CR5	Mycobacterium
37735	3	36713	CO,UR,CR5	
37737	2	25153	CR8,CR5	Mycobacterium
37746	1	12487	CR5	Pseudonocardia
37763	1	12610	CR5	Kineococcus
37768	1	12698	CR8	Amycolatopsis
37779	3	36264	CO,UR,CR5	
37783	2	26470	CO,CR5	
37813	3	38391	CO,UR,CR5	
37814	2	24997	CO,CR5	Frankia
37820	2	25766	CO,CR5	
37833	1	11831	CR5	
37835	3	37940	CO,UR,CR5	
37838	2	25837	CO,CR5	Rhodococcus
37841	1	11991	CR8	Amycolatopsis
37860	2	23818	CR8,CR5	
37868	2	24420	CO,CR8	Rhodococcus
37877	4	54111	CO,UR,CR8,CR5	
37881	1	13071	CR5	Kineococcus
37902	1	12364	CR8	
37907	2	24276	CO,CR8	Mycobacterium
37917	1	12018	CO	Kineococcus radiotolerans
37920	2	24234	UR,CR5	
37921	3	37760	CO,UR,CR5	Rhodococcus
37924	1	11731	CR8	
37943	1	12518	CR8	Mycobacterium
37948	3	37838	CO,UR,CR5	Rhodococcus
37955	2	23474	CO,CR8	Mycobacterium
37963	1	12125	CO	
37984	2	24574	CO,CR8	Mycobacterium
37996	2	25583	CR8,CR5	Mycobacterium
38001	3	38516	CO,UR,CR8	Mycobacterium
38020	2	26963	CR8,CR5	
38072	1	12562	CO	Frankia
38083	1	12068	CO	
38094	1	12286	CR8	Amycolatopsis
38099	2	24954	CO,CR5	Rhodococcus
38101	2	26074	CO,CR5	Frankia
38103	1	12303	CR5	Gordonia amarae
38108	1	12313	CR5	Saccharopolyspora
38115	1	12462	CR8	Mycobacterium
38137	1	12146	CR8	Pseudonocardia
38164	1	13477	CO	
38165	1	11737	CR5	
38168	1	13445	CR5	Mycobacterium
38210	3	37662	CO,UR,CR5	
38238	1	11728	CO	Mycobacterium
38248	1	12888	CO	Mycobacterium
38266	1	13304	CO	Frankia
38270	1	12408	CR5	Gordonia

38272	1	12169	CR8	Rhodococcus
38281	1	12718	CR8	
38303	2	25371	UR,CR5	
38331	2	26322	UR,CR5	Nocardia
38337	1	13512	CR5	Pseudonocardia
38349	1	12678	CR8	Pseudonocardia
38371	1	12120	CR8	Mycobacterium
38393	3	38460	CO,UR,CR5	
38394	1	12461	CR5	Rhodococcus
38400	1	12315	UR	Tsukamurella paurometabola
38427	1	12989	CO	Mycobacterium
38432	3	38938	CO,UR,CR8	
38433	3	38391	CO,UR,CR5	
38438	1	12208	CR8	Mycobacterium
38444	2	23277	CO,CR8	Mycobacterium
38449	2	23808	UR,CR8	Rhodococcus
38463	1	12218	UR	Blastococcus saxobsidens
38499	1	13084	CR5	
38506	1	13262	CR8	Streptomyces
38519	1	12476	UR	
38524	2	25911	CO,CR8	Agromyces
38628	2	26194	CR8,CR5	Nocardioides
38640	2	25942	CO,CR8	
38646	3	37645	CO,UR,CR5	Nocardioides
38679	1	13169	CR5	Nocardioides
38691	1	12262	CO	Streptomyces
38721	1	12670	CO	Agromyces
38726	2	26070	CR8,CR5	Geodermatophilus
38746	1	12279	CR5	Nocardioides
38747	1	12222	CO	Streptomyces
38755	1	12545	CO	Streptomyces
38770	1	13104	UR	Microlunatus
38808	1	12074	CR8	Streptomyces
38813	1	13115	UR	Nocardioides oleivorans
38823	1	12702	CO	Streptomyces
38848	2	25258	CO,CR8	Agromyces
38907	2	26981	CO,CR5	Friedmanniella
38920	3	37554	CO,UR,CR5	Nocardioides
38958	3	39317	CO,UR,CR5	Nocardioides
38959	1	11853	CR8	Streptomyces
38996	3	39904	CO,UR,CR5	Nocardioides
39019	1	11609	CR8	
39027	2	26851	CR8,CR5	Nocardioides
39044	1	12499	UR	Actinopolymorpha
39054	1	11943	CR5	Geodermatophilus
39060	1	11871	CR8	Blastococcus aggregatus
39081	1	13791	CO	Nocardioides
39084	1	11970	CO	Streptomyces
39092	3	36923	CO,UR,CR5	Marmoricola
39094	1	11718	CO	Agromyces

39106	1	12415	UR	
39109	1	12597	CO	Streptomyces
39112	1	12098	CR8	Streptomyces
39124	4	49834	CO,UR,CR8,CR5	Blastococcus aggregatus
39208	2	25581	CR8,CR5	Geodermatophilus
39225	1	12125	CR8	Agromyces
39242	2	23991	CO,CR8	Agromyces
39248	1	12340	CR8	Streptomyces
39259	1	12830	CO	Agromyces
39321	1	11812	UR	Microlunatus phosphovorus
39343	1	13344	CR5	
39401	2	24373	CR8,CR5	Streptomyces
39415	1	12279	CR8	Actinomyces
39424	1	12729	CO	Streptomyces
39435	1	12599	CO	Streptomyces
39446	1	12880	CR8	Nocardiooides
39473	1	12919	CR5	Nocardiooides lentus
39484	4	49692	CO,UR,CR8,CR5	Blastococcus aggregatus
39541	1	12805	CO	Streptomyces
39549	2	27637	CR8,CR5	Streptomyces
39558	1	12953	CO	
39559	2	25579	CR8,CR5	Nocardiooides
39588	2	26255	CR8,CR5	
39602	1	12378	CO	
39606	1	12298	CR8	Streptomyces
39607	1	12548	CR8	Actinomyces
39644	1	12232	CR8	
39646	1	11672	CO	Nocardiooides
39650	3	40318	CO,UR,CR5	Streptomyces
39654	3	38645	CO,UR,CR5	Marmoricola
39661	2	24852	CO,CR8	
39676	1	11957	UR	Aeromicrobium
39684	1	12217	UR	Aeromicrobium
39719	2	25997	CO,CR5	Friedmanniella
39733	3	39089	CO,CO_PMA,CR8	Agromyces
39746	2	24431	CO,CR8	Streptomyces
39774	1	13430	CR5	Friedmanniella
39802	1	12692	CO	Streptomyces
39809	1	12091	UR	Aeromicrobium
39819	1	11771	CO	Streptomyces
39833	1	13070	CR5	
39857	1	12714	CO	
39869	1	11625	UR	Aeromicrobium
39909	1	12302	CR8	Streptomyces
39910	2	26548	CO,CR8	
39926	2	25257	CR8,CR5	Geodermatophilus
39936	1	11742	UR	
39946	1	13078	CO	Micrococcus luteus
39968	1	12773	CO	Propionicimonas
39989	1	12829	CO	Friedmanniella

40014	2	24087	CO,CR8	Agromyces
40039	1	12818	CO	
40042	3	39855	CO,UR,CR5	Nocardiooides
40049	1	11972	CO	Streptomyces
40055	2	24039	CR8,CR5	Geodermatophilus
40067	1	12822	CO	Agromyces
40076	2	25530	CR8,CR5	Geodermatophilus
40101	1	12776	CR5	
40117	2	24606	CO,CR5	
40126	1	12587	CR8	Streptomyces
40141	1	12935	CO	Kocuria
40145	1	13128	CR5	Kocuria marina
40148	3	39164	CO,UR,CR5	
40152	2	25604	CO,CR5	Arthrobacter
40156	2	24935	CR8,CR5	Dermabacter hominis
40158	4	56685	UR,CR8,CR5,CO_PMA	Propionibacterium acnes
40159	3	40070	CO,CO_PMA,CR5	Propionibacterium acnes
40162	1	12063	CO_PMA	Propionibacterium acnes
40164	1	11679	CR8	Actinomyces oris
40170	2	26993	CR8,CR5	Dermabacter hominis
40171	2	27486	CO,CR5	Propionibacterium
40172	4	50140	CO,UR,CR8,CR5	Arthrobacter
40175	1	13012	CO	Arthrobacter
40178	2	26320	CO,UR	Micrococcus luteus
40182	2	23170	CO_PMA,CR5_PMA	Propionibacterium acnes
40188	1	12255	CO	Propionibacterium
40191	3	39049	CO,UR,CR5	Arthrobacter
40193	3	39555	CO,UR,CR5	Propionibacterium
40199	3	37478	CO,UR,CR5	Arthrobacter
40202	2	26265	CO,UR	Micrococcus luteus
40206	3	36798	CO,UR,CR5	Arthrobacter
40209	1	12860	CR8	Arthrobacter
40210	3	41037	CO,UR,CR5	Propionibacterium
40216	1	14071	CR5	Arthrobacter
40219	2	26598	CO,UR	Micrococcus luteus
40220	2	25655	CR8,CR5	Dermabacter hominis
40222	2	25169	CO,UR	Micrococcus luteus
40224	1	13064	CR5	Arthrobacter
40234	1	12052	CO	Arthrobacter
40235	2	27118	CO,CR5	Kocuria marina
40238	2	25025	CO,UR	Micrococcus luteus
40241	4	50977	CO,UR,CR8,CR5	Propionibacterium granulosum
40245	4	53449	CO,UR,CR8,CR5	Arthrobacter
40262	3	38625	CO,UR,CR5	Arthrobacter
40263	1	11933	UR	Micrococcus
40264	3	41475	UR,CO_PMA,CR8	Propionibacterium acnes
40278	2	24397	CO,CR8	Kytococcus
40286	2	24093	UR,CR8	Actinomyces oris
40289	2	26010	CO,UR	Micrococcus luteus
40303	3	39595	CO,UR,CR5	Arthrobacter

40304	1	13035	CR5	Arthrobacter
40314	2	26363	CO,UR	<i>Micrococcus luteus</i>
40322	1	11898	UR	<i>Micrococcus luteus</i>
40325	2	24835	CO,UR	<i>Micrococcus luteus</i>
40333	2	28129	CR8,CR5	<i>Propionibacterium</i>
40334	4	49849	CO,UR,CR8,CR5	<i>Actinomyces oris</i>
40335	2	25315	CO,CR8	
40337	1	12401	CR5	Arthrobacter
40340	2	26273	CO,CR5	Arthrobacter
40347	2	26608	CO,UR	<i>Micrococcus luteus</i>
40352	1	13425	CO	<i>Tessaracoccus</i>
40356	2	27406	CR8,CR5	<i>Propionibacterium acnes</i>
40358	1	12899	CR8	Arthrobacter
40373	2	26185	CO,UR	<i>Micrococcus luteus</i>
40375	1	12426	CO	<i>Georgenia</i>
40376	1	12403	UR	<i>Micrococcus</i>
40378	1	12596	CR8	<i>Dermabacter hominis</i>
40382	3	36670	CO,UR,CR5	Arthrobacter
40389	2	26180	UR,CR5	<i>Dermabacter</i>
40391	1	12807	UR	<i>Dermabacter</i>
40394	2	28624	CR8,CR5	Arthrobacter
40399	2	25372	CO,UR	<i>Micrococcus luteus</i>
40402	1	13394	CR5	<i>Dermabacter</i>
40407	2	23852	UR,CR8	<i>Actinomyces</i>
40408	3	37127	CO,UR,CR8	<i>Kytococcus</i>
40412	2	24332	CO,UR	
40413	1	12134	CR8	Arthrobacter
40415	1	12432	CR5	Arthrobacter
40416	1	12230	CR5	Arthrobacter
40419	1	12157	CR8	
40425	1	12900	CO	Arthrobacter
40426	3	36880	CO,UR,CR8	<i>Kytococcus schroeteri</i>
40427	1	12620	CR5	Arthrobacter
40436	2	26586	CO,UR	<i>Micrococcus luteus</i>
40442	1	12854	CO	<i>Actinomyces</i>
40443	2	23430	UR,CR8	<i>Actinomyces</i>
40455	2	25742	CO,CR5	Arthrobacter
40473	1	13405	UR	<i>Micrococcus</i>
40474	2	26690	CO,CR5	Arthrobacter
40476	1	12173	UR	<i>Micrococcus luteus</i>
40479	2	26501	CO,UR	<i>Micrococcus luteus</i>
40484	2	25579	CO,UR	<i>Micrococcus luteus</i>
40486	1	12465	CO	Arthrobacter
40488	3	37993	CO,UR,CR5	Arthrobacter
40490	1	12449	CO	<i>Micrococcus luteus</i>
40492	2	23758	UR,CR8	<i>Actinomyces</i>
40495	3	37469	CO,UR,CR5	Arthrobacter
40503	1	11724	CR8	Arthrobacter
40505	3	39085	CO,UR,CR5	
40510	2	26091	CO,UR	<i>Micrococcus luteus</i>

40512	3	39297	CO,UR,CR5	Arthrobacter
40518	2	28163	CR8,CR5	Propionibacterium
40522	3	37398	CO,UR,CR5	Arthrobacter
40526	1	12725	CR5	Arthrobacter
40529	1	13716	CR5	Dermabacter
40531	1	13710	CR5	Dermabacter
40535	2	25045	CO,CR5	Arthrobacter
40549	2	23789	CO,CR8	Actinomyces
40550	2	25572	UR,CO_PMA	Propionibacterium acnes
40558	2	24693	CO,CR5	Arthrobacter
40568	1	12966	CO	Arthrobacter
40574	1	12647	UR	Micrococcus luteus
40575	2	26258	CO,UR	Micrococcus luteus
40577	2	25445	UR,CR5	Arthrobacter
40578	1	13781	CR5	Knoellia subterranea
40583	1	12401	CR5	Arthrobacter
40586	2	26761	CO,CR5	Arthrobacter
40587	1	12452	CR5	Arthrobacter
40592	1	11969	CR8	
40597	2	26209	CO,CR8	Propionibacterium
40610	2	26475	CO,CR5	Arthrobacter
40611	1	13356	CO	Cellulomonas
40619	1	12366	CO	Cellulomonas
40620	1	12702	CR8	Arthrobacter
40621	2	25604	CO,UR	Micrococcus luteus
40629	1	13281	CO	
40639	1	12950	CO	Arthrobacter
40640	2	25496	CO,UR	Micrococcus luteus
40651	2	23457	UR,CR8	Actinomyces oris
40666	2	25510	CO,CR5	Arthrobacter
40676	2	25792	CR8,CR5	Arthrobacter
40678	2	25018	CO,CR8	Arthrobacter
40679	1	12962	UR	Micrococcus
40685	1	13214	CO_PMA	Propionibacterium
40686	4	54588	CO,UR,CR8,CR5	Propionibacterium acnes
40696	2	25301	CO,UR	Micrococcus luteus
40697	2	25386	CO,UR	Micrococcus luteus
40705	1	12571	CR5	Knoellia subterranea
40716	3	39471	CO,UR,CR5	
40718	2	26834	CO,UR	Micrococcus luteus
40719	1	13209	CR8	Brevibacterium
40723	1	13523	CR5	Arthrobacter
40727	2	26216	CO,CR5	Kocuria marina
40733	2	24355	UR,CR8	Actinomyces
40740	2	26280	CO,UR	Micrococcus luteus
40741	2	25710	CO,CR8	Arthrobacter
40743	1	12303	CO	Propionibacterium
40749	3	39437	CO,UR,CR5	
40753	2	24989	CO,UR	Micrococcus luteus
40757	1	13000	CO	Micrococcus luteus

40766	1	13966	CR5	Propionibacterium
40774	1	11831	CR8	Actinomyces
40778	2	26506	CO,CR5	Arthrobacter
40779	2	25447	UR,CR8	Actinomyces oris
40792	1	13220	CR8	Brevibacterium
40797	1	11801	CR8	Arthrobacter
40805	2	25163	CO,CR8	Arthrobacter
40819	1	12356	UR	Micrococcus
40827	3	35803	CO,UR,CR5	Arthrobacter
40834	1	12603	CO	Micrococcus luteus
40838	1	11831	CR8	Actinomyces
40846	1	12870	CO	Kocuria marina
40853	1	13538	CR8	Propionibacterium
40856	1	12192	UR	Janibacter
40861	2	25393	CO,UR	Micrococcus luteus
40867	1	12832	CR5	Arthrobacter
40875	3	37417	CO,UR,CR5	Arthrobacter
40876	1	13194	CR5	Arthrobacter
40882	2	24654	UR,CR8	Brevibacterium
40884	2	25558	CO,UR	Micrococcus luteus
40889	1	12775	UR	Micrococcus
40890	1	12212	CO	Georgenia
40892	2	24360	UR,CR8	Actinomyces
40893	2	27069	CR8,CR5	Dermabacter hominis
40898	3	39470	CO,UR,CR5	Arthrobacter
40899	1	12675	UR	Dermabacter
40908	1	13753	CR5	Dermabacter
40911	2	25877	CO,UR	Micrococcus luteus
40912	3	38764	CO,UR,CR5	Propionibacterium
40917	1	13240	CO	Cellulomonas
40919	2	24950	CO,CR8	Arthrobacter
40920	2	23929	CR8,CR5	Arthrobacter agilis
40921	1	12976	CO	
40925	2	25215	CO,CO_PMA	Cellulomonas
40929	1	12289	CR8	Actinomyces
40930	1	11866	UR	Arthrobacter
40932	4	55649	CO,UR,CR8,CR5	Propionibacterium acnes
40943	1	13117	UR	Micrococcus
40945	2	24732	UR,CR5	Arthrobacter
40958	2	23894	UR,CR8	Actinomyces
40960	2	25144	CO,UR	Micrococcus luteus
40962	1	13163	CO	Arthrobacter
40968	4	50870	CO,UR,CR8,CR5	Arthrobacter
40976	2	27008	CO,CR5	
40979	1	12814	CR5	Arthrobacter
40983	1	12702	CR8	Brevibacterium paucivorans
40984	3	36659	CO,UR,CR5	
40988	1	13545	CO	
40992	2	25829	CO,UR	Micrococcus luteus
40996	1	13785	CR5	Dermabacter

41001	4	48981	CO,UR,CR8,CR5	
41006	4	53548	CO,UR,CR8,CR5	<i>Propionibacterium acnes</i>
41008	4	50100	CO,UR,CR8,CR5	<i>Arthrobacter</i>
41012	2	26611	CR8,CR5_PMA	<i>Propionibacterium acnes</i>
41013	1	12517	CO	<i>Arthrobacter</i>
41015	1	11989	CO	
41016	3	37674	CO,UR,CR8	<i>Kytococcus</i>
41018	2	26512	UR,CR5	<i>Dermabacter</i>
41022	2	24052	CO,CR5	<i>Arthrobacter</i>
41035	3	37897	CO,UR,CR5	<i>Arthrobacter</i>
41048	2	25593	CO,CR8	<i>Arthrobacter</i>
41049	2	25759	CO,CR5	<i>Arthrobacter</i>
41050	2	24937	CO,CR8	<i>Arthrobacter</i>
41054	2	26693	CO,UR	<i>Micrococcus luteus</i>
41058	2	25886	CO,CR8	<i>Arthrobacter</i>
41060	1	13048	CO	
41061	2	26828	CO,UR	<i>Micrococcus luteus</i>
41068	4	53541	CO,UR,CR8,CR5	<i>Propionibacterium</i>
41078	1	12782	CO	
41079	2	25042	CO,CR8	<i>Arthrobacter</i>
41080	4	52696	CO,UR,CR8,CR5	<i>Arthrobacter</i>
41085	1	13844	CR8	<i>Propionibacterium</i>
41088	4	49209	CO,UR,CR8,CR5	<i>Microbacterium</i>
41101	2	25333	CO,CR8	<i>Microbacterium</i>
41103	1	11989	CR8	<i>Nocardiopsis</i>
41105	2	24820	CO,CR5	<i>Actinoplanes</i>
41110	1	12431	CO	<i>Actinoplanes</i>
41114	3	37570	CO,UR,CR5	sfA
41119	1	11719	CR8	sfA
41123	2	26068	CO,UR	<i>Microbacterium</i>
41163	1	11808	CO	<i>Microbacterium</i>
41171	1	12264	CR8	<i>Microbacterium</i>
41194	1	12667	UR	<i>Actinomadura</i>
41199	2	25127	CO,CR5	<i>Actinoplanes</i>
41204	1	13300	CR5	
41209	1	12613	CO	
41227	4	50880	CO,UR,CR8,CR5	sfA
41235	2	26350	CO,CR5	sfA
41237	1	11907	CR5	<i>Actinoplanes</i>
41250	1	13077	CO	
41253	1	12238	CR5	
41272	1	12436	CR5	
41275	2	25569	CO,CR8	<i>Microbacterium</i>
41284	4	49560	CO,UR,CR8,CR5	<i>Microbacterium</i>
41285	3	39346	CO,UR,CR5	sfA
41288	1	12791	CO	
41293	3	39728	CO,UR,CR5	<i>Microbacterium</i>
41301	1	12540	CO	sfA
41305	2	25430	CO,CR8	sfA
41332	1	11947	UR	<i>Actinomadura</i>

41368	1	12732	CR5	
41369	1	12796	CO	<i>Agrococcus jenensis</i>
41371	2	24593	CO,CR5	<i>Actinoplanes</i>
41373	4	48943	CO,UR,CR8,CR5	<i>Microbacterium</i>
41399	1	13271	CO	<i>Leucobacter</i>
41425	1	12061	CR8	<i>sfB</i>
41428	1	11631	UR	<i>Actinomadura</i>
41444	1	11725	CO	
41456	1	12858	UR	<i>Microbacterium</i>
41460	1	12261	CR5	<i>Microbacterium</i>
41462	2	24454	UR,CR8	<i>Microbacterium</i>
41474	2	24409	CR8,CR5	<i>Microbacterium</i>
41480	1	12687	CO	
41489	1	11768	CR5	<i>Actinoplanes</i>
41490	1	13091	CR8	<i>Nocardiopsis</i>
41491	3	36280	CO,UR,CR5	<i>Microbacterium</i>
41493	2	23786	CR8,CR5	<i>Microbacterium</i>
41499	2	23808	UR,CR8	<i>Microbacterium</i>
41500	1	13258	CR8	
41502	1	12580	CR8	<i>Dactylosporangium</i>
41517	1	12081	CR8	<i>Microbacterium</i>
41531	1	13008	CR8	<i>Nocardiopsis</i>
41535	2	25212	CO,CR8	<i>Microbacterium</i>
41542	1	11896	UR	<i>Actinoallomurus spadix</i>
41546	3	41784	CO,UR,CR5	<i>Microbacterium</i>
41552	1	12088	CO	<i>Actinocorallia</i>
41578	1	12204	CO	<i>Microbacterium</i>
41589	1	12010	UR	<i>Actinomadura</i>
41601	1	11778	CR8	<i>Microbacterium</i>
41631	4	51093	CO,UR,CR8,CR5	
41636	2	24319	CO,CR5	<i>Actinoplanes</i>
41637	1	12381	CO	<i>Microbacterium</i>
41639	3	36873	CO,UR,CR5	<i>sfA</i>
41652	1	12391	CR8	<i>Nocardiopsis</i>
41657	3	38673	CO,UR,CR5	<i>Microbacterium</i>
41712	1	12416	CR8	<i>Microbacterium</i>
41721	2	25540	CR8,CR5	<i>Microbacterium</i>
41730	1	12500	CO	
41733	1	11918	CR8	<i>Nocardiopsis</i>
41745	4	50943	CO,UR,CR8,CR5	
41749	3	35053	CO,UR,CR5	<i>Microbacterium</i>
41753	2	25842	CR8,CR5	<i>Microbacterium</i>
41755	2	23945	CO,CR8	<i>sfA</i>
41760	1	13196	CO	<i>Leucobacter</i>
41770	1	12958	CR5	
41779	1	12176	CO	
41840	4	49763	CO,UR,CR8,CR5	<i>Microbacterium</i>
41851	1	12798	CR8	
41853	1	11612	CR8	<i>Microbacterium</i>
41854	4	48057	CO,UR,CR8,CR5	<i>Microbacterium</i>

41868	1	12853	CO	
41881	4	50219	CO,UR,CR8,CR5	Microbacterium
41886	4	49183	CO,UR,CR8,CR5	sfD
41900	1	12147	CR5	
41904	4	52934	CO,UR,CR8,CR5	Microbacterium
41908	4	51074	CO,UR,CR8,CR5	Microbacterium
41923	3	40277	CO,UR,CR5	Arthrobacter
41925	1	12951	CO	
41931	1	13177	CO	
41938	3	36542	CO,UR,CR8	Leucobacter
41946	3	37975	CO,UR,CR5	Microbacterium
41964	1	11688	UR	Microbacterium aurum
41978	1	12935	CR8	Agreia
41992	1	12070	CO	sfB
42004	1	13007	CR5	
42038	2	26417	CR8,CR5	Microbacterium
42065	3	36474	CO,UR,CR8	Microbacterium
42075	3	37179	CO,UR,CR5	Dactylosporangium
42081	3	37615	CO,UR,CR5	Nocardiopsis
42091	1	13690	CO	Mycetocola reblochoni
42095	1	12648	CO	
42097	1	12149	CR8	
42104	4	48890	CO,UR,CR8,CR5	Microbacterium
42129	1	12397	UR	Actinomadura
42131	3	38295	CO,UR,CR5	
42149	3	39514	CO,UR,CR5	Microbacterium
42150	1	11713	CO	
42173	1	13075	CR8	Microbacterium
42189	2	23749	CO,CR8	sfD
42208	1	11811	CR8	Agreia
42218	1	12273	CR8	Nocardiopsis
42236	3	37582	CO,UR,CR5	Microbacterium
42247	1	12505	CO	Actinocorallia
42253	1	11567	CR8	Solirubrobacter
42285	1	12062	UR	Actinoallomurus spadix
42295	3	38123	CO,UR,CR5	Microbacterium
42310	1	11820	UR	Microbacterium aurum
42337	1	12576	CR5	Rathayibacter caricis
42357	1	12667	CR5	
42358	1	12512	CO	
42400	1	12024	CO	Nonomuraea
42417	1	12245	CR8	Microbacterium
42425	1	12052	CO	Dactylosporangium
42426	1	11742	CR8	Solirubrobacter
42432	2	24563	CO,CR8	Microbacterium
42436	1	12483	CO	
42470	1	12082	CR8	Solibacillus
42472	1	11877	CR8	Bacillus psychrodurans
42479	4	50708	CO,UR,CR8,CR5	
42497	1	11753	CR8	

42505	2	24313	CO,CR8	
42511	1	14498	UR	Enterococcus
42514	1	11721	UR	Bacillus
42582	1	11794	CR8	Bacillus
42609	1	12178	UR	Bacillus
42616	1	12325	UR	Enterococcus
42622	1	12064	CR8	
42672	1	11761	UR	Bacillus
42676	1	13089	CR8	
42684	1	11540	UR	Bacillus
42694	1	13307	CR5	
42706	1	11683	UR	
42743	1	12203	CO	Tetragenococcus
42748	1	11914	UR	Bacillus
42814	1	12379	CO	Lactococcus lactis
42818	2	26445	CR8,CR5	
42889	1	11841	UR	Enterococcus
42908	1	11595	CR8	Lactococcus lactis
42933	1	12585	UR	Bacillus
42959	4	52499	CO,UR,CR8,CR5	
42997	1	11648	CR8	
43095	1	13271	CR8	Jeotgalicoccus
43227	2	25484	CO,CR8	
43361	1	11661	UR	Bacillus
43416	1	12642	CR5	
43461	1	11885	UR	Bacillus
43496	1	12012	UR	Bacillus
43507	1	11565	UR	Enterococcus
43571	1	12476	UR	Bacillus
43697	2	23293	CR8,CR5	Lactococcus lactis
43705	2	23560	CO,CR8	Bacillus
43709	1	11820	UR	Bacillus anthracis
43740	1	11721	UR	Bacillus
43749	1	13210	CR5	Jeotgalicoccus
43752	1	12456	CR5	Solibacillus
43755	1	11959	UR	Bacillus
43780	2	25765	CO,CR8	Gemella
43927	1	11774	CR5	
43975	1	12216	CO	Enterococcus
43982	1	12136	UR	Enterococcus
44033	1	13139	CR8	Jeotgalicoccus
44057	1	11681	UR	Enterococcus
44069	1	11658	UR	Bacillus
44151	2	24391	CR8,CR5	
44153	2	24553	CO,UR	Streptococcus pseudopneumoniae
44160	3	37119	CO,UR,CR5	Streptococcus
44162	1	12676	CR8	Streptococcus
44165	1	12272	CR8	Streptococcus
44167	2	23928	CO,CR5	Streptococcus
44182	2	24302	CO,CR8	Streptococcus

44212	4	50994	CO,UR,CR8,CR5	Streptococcus
44221	2	24872	CR8,CR5	Streptococcus
44224	2	24872	CO,UR	Streptococcus pseudopneumoniae
44235	1	12152	CO	Clostridium
44243	2	24568	CO,UR	Streptococcus pseudopneumoniae
44257	3	36687	CO,UR,CR5	Streptococcus
44277	3	37127	CO,UR,CR8	Streptococcus
44280	2	24134	CO,CR8	Streptococcus
44288	1	12547	CR8	Streptococcus thermophilus
44299	4	50198	CO,UR,CR8,CR5	Streptococcus
44308	2	24069	CO,CR8	Streptococcus
44316	2	24533	CO,CR8	Streptococcus
44346	4	49065	CO,UR,CR8,CR5	Streptococcus
44363	3	36625	CO,UR,CR5	Streptococcus
44371	1	12325	UR	Streptococcus sanguinis
44380	1	12471	UR	Streptococcus
44383	1	12225	CO	Streptococcus pseudopneumoniae
44396	1	11768	CR8	Streptococcus
44422	2	23848	CO,UR	Streptococcus pseudopneumoniae
44432	2	23637	CO,UR	Streptococcus oralis
44452	3	36406	CO,UR,CR5	Streptococcus
44460	1	12592	CR8	Streptococcus thermophilus
44466	1	12233	CR8	Streptococcus
44482	2	23985	CO,UR	Streptococcus pseudopneumoniae
44501	3	36162	CO,UR,CR5	Streptococcus
44511	2	24908	CO,CR8	Streptococcus
44516	2	23957	CO,CR8	Streptococcus
44533	2	23993	CO,CR8	Streptococcus
44534	2	24115	CO,UR	Streptococcus oralis
44552	2	24435	CO,CR8	Streptococcus
44553	1	11846	CO	Streptococcus
44554	2	24097	CO,CR5	Streptococcus
44562	2	24276	CO,UR	Streptococcus oralis
44565	4	49443	CO,UR,CR8,CR5	Streptococcus
44574	3	35490	CO,UR,CR5	Streptococcus
44590	2	24516	CO,CR8	Streptococcus
44602	1	12314	CR8	Streptococcus thermophilus
44604	2	24615	CO,CR8	Streptococcus
44608	2	24139	CO,CR8	Streptococcus
44612	1	12918	CR8	Streptococcus thermophilus
44623	2	23406	UR,CR8	Streptococcus
44633	3	35908	CO,UR,CR5	Streptococcus
44644	1	11997	CO	Streptococcus
44647	4	48523	CO,UR,CR8,CR5	Streptococcus
44651	2	23437	CO,CR8	Streptococcus
44655	1	12436	CR8	Streptococcus thermophilus
44666	1	11943	CR5	Streptococcus infantis
44673	4	48035	CO,UR,CR8,CR5	Streptococcus
44677	1	11600	UR	Streptococcus pseudopneumoniae
44680	2	23990	UR,CR8	Streptococcus

44681	3	36198	CO,UR,CR8	Streptococcus
44688	2	23361	UR,CR8	Streptococcus
44702	2	23263	CO,UR	Clostridium
44703	3	37131	CO,UR,CR5	Streptococcus
44721	1	13272	CR5	Streptococcus
44743	2	24242	CO,UR	Streptococcus pseudopneumoniae
44744	3	35129	CO,UR,CR5	Clostridium
44745	2	24582	CO,UR	Streptococcus oralis
44751	4	48731	CO,UR,CR8,CR5	Streptococcus
44757	1	12376	CO	Streptococcus
44767	2	24167	CO,CR8	Streptococcus
44770	4	47856	CO,UR,CR8,CR5	Streptococcus
44778	2	24178	CO,CR8	Streptococcus
44789	2	24606	CO,UR	Streptococcus pseudopneumoniae
44792	4	49537	CO,UR,CR8,CR5	Streptococcus
44813	1	12123	CR8	Streptococcus
44816	4	49252	CO,UR,CR8,CR5	Streptococcus
44820	2	23494	UR,CR8	Streptococcus
44823	4	49140	CO,UR,CR8,CR5	Streptococcus
44826	3	36054	CO,UR,CR5	Streptococcus
44829	3	35381	CO,UR,CR5	Streptococcus
44837	1	12122	CR8	Streptococcus
44852	1	12245	CR8	Streptococcus
44860	4	49499	CO,UR,CR8,CR5	Streptococcus
44884	1	12309	CR5	Streptococcus infantis
44896	4	50288	CO,UR,CR8,CR5	Streptococcus
44904	1	11728	CR5	Streptococcus
44910	4	48301	CO,UR,CR8,CR5	Streptococcus
44911	3	36662	CO,UR,CR5	Streptococcus
44912	2	23895	CO,CR8	Streptococcus
44928	1	12274	CO	Streptococcus pseudopneumoniae
44957	2	24450	CR8,CR5	Streptococcus
44958	3	36063	CO,UR,CR5	Streptococcus
44969	2	24790	CO,CR8	Streptococcus
44976	1	12207	UR	Streptococcus
44997	1	12458	CO	Streptococcus pseudopneumoniae
45005	3	36227	CO,UR,CR5	Streptococcus
45008	2	24403	CO,UR	Streptococcus pseudopneumoniae
45015	1	11970	CO	Streptococcus
45016	4	47486	CO,UR,CR8,CR5	Streptococcus
45052	2	25174	CO,UR	Streptococcus pseudopneumoniae
45053	2	24150	CO,CR8	Streptococcus
45070	1	12307	CR8	Streptococcus thermophilus
45084	1	12529	CR8	Streptococcus thermophilus
45097	1	11617	CR8	Streptococcus
45101	1	12310	CR8	Streptococcus thermophilus
45105	3	35875	CO,UR,CR5	Streptococcus
45111	2	23620	CR8,CR5	Streptococcus
45118	4	48403	CO,UR,CR8,CR5	Streptococcus
45130	3	37574	CO,UR,CR5	Streptococcus

45131	4	48262	CO,UR,CR8,CR5	Streptococcus
45151	1	11828	UR	Streptococcus pseudopneumoniae
45158	4	48893	CO,UR,CR8,CR5	Streptococcus
45161	4	51537	CO,UR,CR8,CR5	Streptococcus
45167	2	24572	CO,CR8	Streptococcus
45179	1	12247	CR8	Streptococcus
45188	2	25440	CR8,CR5	Streptococcus
45210	3	37018	CO,UR,CR8	Streptococcus
45221	1	11687	CR8	Streptococcus
45225	1	12400	CR8	Streptococcus thermophilus
45228	2	24312	CO,CR8	Streptococcus
45230	3	36361	CO,UR,CR8	Streptococcus
45238	2	23981	CO,CR8	Streptococcus
45246	1	11641	CR8	Streptococcus
45269	2	24630	CO,UR	Streptococcus pseudopneumoniae
45286	2	24529	CO,UR	Streptococcus pseudopneumoniae
45297	3	36931	CO,UR,CR5	Streptococcus
45299	2	24408	CO,UR	Streptococcus pseudopneumoniae
45300	4	48331	CO,UR,CR8,CR5	Streptococcus
45304	2	24532	CO,UR	Streptococcus pseudopneumoniae
45307	1	12262	CR8	Streptococcus thermophilus
45308	2	24357	CO,CR8	Streptococcus
45311	3	37678	CO,UR,CR5	Streptococcus
45320	4	50073	CO,UR,CR8,CR5	Streptococcus
45321	1	12448	CO	Streptococcus pseudopneumoniae
45324	3	37315	CO,UR,CR8	Streptococcus
45326	3	36393	CO,UR,CR5	Streptococcus
45343	2	24424	CO,UR	Streptococcus pseudopneumoniae
45350	3	35565	CO,UR,CR5	Streptococcus
45352	3	36297	CO,UR,CR5	Streptococcus
45357	2	25164	CR8,CR5	Streptococcus
45382	1	12320	CR8	Streptococcus thermophilus
45385	3	36808	CO,UR,CR5	Streptococcus
45389	1	11967	CR8	Streptococcus
45402	2	23560	UR,CR8	Streptococcus
45404	3	35601	CO,UR,CR5	Streptococcus
45405	1	11595	UR	Streptococcus
45427	3	36608	CO,UR,CR5	Streptococcus
45438	4	51429	CO,UR,CR8,CR5	Streptococcus
45440	2	23924	CO,UR	Streptococcus pseudopneumoniae
45474	1	13273	CO	Streptococcus
45481	4	48539	CO,UR,CR8,CR5	Streptococcus
45483	2	23509	CO,CR5	Streptococcus
45484	1	13316	CR8	Streptococcus
45487	1	12578	UR	Clostridium
45493	2	24310	CO,CR5	Streptococcus
45500	2	24014	CO,CR8	Streptococcus
45507	2	23845	CO,UR	Streptococcus pseudopneumoniae
45508	2	24753	CO,UR	Streptococcus pseudopneumoniae
45513	4	51124	CO,UR,CR8,CR5	Streptococcus

45523	4	50635	CO,UR,CR8,CR5	Streptococcus
45529	2	23704	UR,CR8	Streptococcus
45531	2	25302	CO,CR5	Streptococcus
45536	3	35829	CO,UR,CR5	Streptococcus
45542	4	54161	CO,UR,CR8,CR5	Streptococcus sanguinis
45543	1	12490	CO	Streptococcus pseudopneumoniae
45549	2	24659	CO,CR8	Streptococcus
45556	1	11967	CR8	Streptococcus
45563	4	48614	CO,UR,CR8,CR5	Streptococcus
45564	1	11767	CO	Streptococcus pseudopneumoniae
45578	1	12306	CR8	Streptococcus
45587	4	49940	CO,UR,CR8,CR5	Streptococcus
45592	1	11891	UR	Streptococcus pseudopneumoniae
45593	1	12493	CR8	Streptococcus thermophilus
45595	1	13056	UR	Streptococcus sanguinis
45601	2	24510	CO,CR8	Streptococcus
45626	3	36653	CO,UR,CR5	Streptococcus
45628	3	36463	CO,UR,CR5	Streptococcus
45636	2	23831	CO,UR	Streptococcus pseudopneumoniae
45679	4	48090	CO,UR,CR8,CR5	Streptococcus
45682	2	24311	UR,CR8	Streptococcus
45694	1	12188	CR8	Streptococcus
45695	4	47817	CO,UR,CR8,CR5	Streptococcus
45720	4	48960	CO,UR,CR8,CR5	Streptococcus
45725	1	11469	UR	Streptococcus
45735	1	12240	CO	Clostridium
45744	4	48722	CO,UR,CR8,CR5	Streptococcus
45762	1	11657	CR8	Streptococcus cristatus
45786	2	25295	CO,UR	Streptococcus pseudopneumoniae
45803	1	12496	CO	Streptococcus pseudopneumoniae
45828	2	24177	CO,CR8	Streptococcus
45837	2	24203	CO,CR8	Streptococcus
45844	4	48844	CO,UR,CR8,CR5	Streptococcus
45855	1	12436	CR8	Streptococcus
45861	2	23972	CO,UR	Clostridium
45870	4	47237	CO,UR,CR8,CR5	Streptococcus
45878	3	37634	CO,UR,CR5	Streptococcus
45879	4	48196	CO,UR,CR8,CR5	Streptococcus
45887	2	24622	CO,UR	Streptococcus pseudopneumoniae
45888	1	12884	CR8	Streptococcus cristatus
45896	1	12596	CR8	Streptococcus
45900	1	13739	CR8	Staphylococcus
45914	2	27025	UR,CR5	Staphylococcus epidermidis
45951	3	40503	CO,UR,CR5	Staphylococcus epidermidis
45953	1	13416	CR8	Staphylococcus epidermidis
45955	2	25974	UR,CR5	Bacillus flexus
45974	1	13143	CR8	Staphylococcus
45988	2	25635	CO,CR8	Staphylococcus haemolyticus
46013	1	13805	CR8	Staphylococcus
46025	1	13711	CR8	Staphylococcus epidermidis

46067	2	26760	CO,CR8	Staphylococcus epidermidis
46074	2	26339	UR,CR8	Staphylococcus
46079	2	26762	UR,CR8	Brochothrix thermosphacta
46081	1	13588	CR8	Staphylococcus
46095	1	12366	CR8	Brochothrix
46119	1	13485	CR8	Staphylococcus pettenkoferi
46138	1	13575	UR	Staphylococcus epidermidis
46157	2	26060	CO,CR8	Staphylococcus
46162	3	40108	CO,UR,CR5	Staphylococcus epidermidis
46163	1	13920	CR8	Staphylococcus epidermidis
46167	2	27309	UR,CR8	Staphylococcus
46176	1	13662	CR8	Staphylococcus
46189	4	54025	CO,CO_PMA,CR8,CR5	Staphylococcus epidermidis
46190	3	41023	CO,UR,CR5	Staphylococcus
46215	2	25793	CO,CR8	Staphylococcus epidermidis
46217	1	13637	UR	Staphylococcus epidermidis
46226	1	13401	UR	Staphylococcus epidermidis
46228	1	13553	CR8	Staphylococcus
46243	1	13372	CR8	Staphylococcus epidermidis
46244	1	11713	CO_PMA	Staphylococcus epidermidis
46259	4	48598	CO,UR,CR8,CR5	Staphylococcus
46260	1	13941	CR8	Staphylococcus epidermidis
46278	1	13353	CR8	Staphylococcus
46293	1	12891	CO	Staphylococcus epidermidis
46329	1	13387	CR8	Staphylococcus
46342	1	12407	CO	Staphylococcus
46360	1	12802	UR	Staphylococcus
46362	1	12717	UR	Staphylococcus
46367	1	13335	UR	Staphylococcus
46372	3	37350	CO,UR,CR5	Staphylococcus epidermidis
46398	3	38257	CO,UR,CR5	Staphylococcus haemolyticus
46405	1	13493	CR8	Staphylococcus epidermidis
46417	1	13546	UR	Staphylococcus epidermidis
46420	2	24661	CO_PMA,CR8_PMA	Staphylococcus
46450	3	39851	CO,UR,CR8	Staphylococcus epidermidis
46451	1	13618	CR8	Staphylococcus epidermidis
46463	1	13109	CO	Staphylococcus
46464	3	40182	CO,UR,CR8	Staphylococcus
46484	1	12156	CR8	Staphylococcus
46516	1	12973	CO	Staphylococcus epidermidis
46520	1	12617	UR	Bacillus cytotoxicus
46527	1	11499	CO_PMA	Staphylococcus
46532	2	27173	UR,CR5	Staphylococcus
46539	1	13134	CR8	Staphylococcus
46548	2	23764	CR8,CR5	Staphylococcus
46562	3	41774	CO,UR,CR5	Staphylococcus epidermidis
46568	1	12272	CO	Staphylococcus epidermidis
46571	1	13576	UR	Staphylococcus epidermidis
46607	2	26323	CO,CR8	Staphylococcus epidermidis
46608	2	27364	UR,CR8	Staphylococcus

46611	1	13825	CR8	<i>Staphylococcus epidermidis</i>
46612	2	26983	CO,CR8	<i>Staphylococcus epidermidis</i>
46621	2	27109	UR,CR8	<i>Staphylococcus</i>
46645	1	13176	CR8	<i>Staphylococcus</i>
46661	3	38369	CO,UR,CR5	<i>Staphylococcus</i>
46665	1	12175	CR8	<i>Staphylococcus</i>
46667	1	13378	CO	<i>Staphylococcus epidermidis</i>
46668	1	11896	CR5	<i>Staphylococcus</i>
46682	2	26392	CO,CR8	<i>Staphylococcus epidermidis</i>
46684	2	27317	UR,CR8	<i>Staphylococcus epidermidis</i>
46706	3	38165	CO,UR,CR5	<i>Staphylococcus haemolyticus</i>
46712	1	13623	UR	<i>Staphylococcus epidermidis</i>
46718	1	12472	CO	<i>Staphylococcus epidermidis</i>
46720	3	39797	CO,UR,CR5	<i>Staphylococcus</i>
46733	2	27930	CR8,CR5	<i>Staphylococcus</i>
46738	3	37296	CO,UR,CR5	<i>Staphylococcus</i>
46752	1	13487	UR	<i>Staphylococcus epidermidis</i>
46766	2	26802	UR,CR8	<i>Staphylococcus</i>
46779	2	25508	CO,CR8	<i>Staphylococcus epidermidis</i>
46793	1	12676	CO_PMA	<i>Staphylococcus</i>
46794	1	12816	CR8	<i>Staphylococcus epidermidis</i>
46809	2	27082	UR,CR8	<i>Staphylococcus</i>
46819	1	13308	CR8	<i>Staphylococcus epidermidis</i>
46826	1	13571	UR	<i>Staphylococcus epidermidis</i>
46828	1	13033	CR8	<i>Staphylococcus</i>
46868	1	11845	CO	<i>Geobacillus</i>
46886	3	40593	CO,UR,CR5	<i>Staphylococcus epidermidis</i>
46891	2	27308	UR,CR5	<i>Staphylococcus</i>
46894	1	12714	CR8	<i>Staphylococcus</i>
46905	2	26977	UR,CR8	<i>Staphylococcus</i>
46913	3	38786	CO,UR,CR5	<i>Staphylococcus epidermidis</i>
46929	1	13040	CR8	<i>Staphylococcus</i>
46947	1	13760	CR8	<i>Staphylococcus</i>
46963	1	13597	CR8	<i>Staphylococcus</i>
46981	5	64736	CO,UR,CR8,CR5,CO_PMA	<i>Staphylococcus</i>
46998	1	13277	UR	<i>Staphylococcus epidermidis</i>
47000	1	12216	CR8	<i>Staphylococcus sciuri</i>
47019	2	26832	UR,CR8	<i>Staphylococcus</i>
47034	1	13650	CR5	<i>Staphylococcus epidermidis</i>
47078	1	12007	CR8	<i>Bacillus</i>
47101	1	12571	CR8	<i>Staphylococcus</i>
47109	2	27189	UR,CR8	<i>Staphylococcus epidermidis</i>
47114	2	26722	CR8,CR5	<i>Staphylococcus</i>
47128	1	13213	CO	<i>Staphylococcus epidermidis</i>
47129	2	27096	UR,CR8	<i>Staphylococcus</i>
47130	1	12852	CO	<i>Staphylococcus epidermidis</i>
47135	3	39204	CO,UR,CR5	<i>Staphylococcus</i>
47137	1	13114	CR8	<i>Staphylococcus epidermidis</i>
47152	1	13632	CR8	<i>Staphylococcus</i>
47173	1	12958	CR8	<i>Staphylococcus epidermidis</i>

47175	1	13644	CR5	Staphylococcus
47185	1	13636	CR8	Staphylococcus
47187	2	25292	UR,CR8	Staphylococcus
47188	2	26197	CR8,CR5	Staphylococcus
47200	2	27025	UR,CR8	Staphylococcus epidermidis
47243	1	13096	CO	Staphylococcus
47246	1	12887	CR8	Staphylococcus
47248	1	13299	CO	Staphylococcus
47276	2	25940	CO,CR8	Staphylococcus epidermidis
47296	2	27180	UR,CR8	Staphylococcus
47306	1	13338	CR8	Staphylococcus epidermidis
47320	1	12874	CO	Staphylococcus epidermidis
47327	1	13036	UR	Staphylococcus
47333	1	13856	CR8	Staphylococcus epidermidis
47338	2	27235	UR,CR8	Staphylococcus
47341	1	13891	CR8	Staphylococcus epidermidis
47345	1	12472	CO	Staphylococcus epidermidis
47357	2	26304	UR,CR8	Staphylococcus
47361	1	12795	CO	Staphylococcus epidermidis
47419	1	12346	CO	Staphylococcus epidermidis
47425	1	12711	CO	Staphylococcus epidermidis
47434	1	11657	CR8	Geobacillus
47445	3	40440	CO,UR,CR5	Staphylococcus epidermidis
47450	1	11544	CR8	Pontibacillus
47462	1	13599	CR8	Staphylococcus epidermidis
47476	2	26153	CR8,CR5	Staphylococcus
47479	1	13483	CR8	Staphylococcus
47519	1	13617	CR8	Staphylococcus
47528	1	11973	CO_PMA	Staphylococcus
47544	2	27143	UR,CR8	Staphylococcus
47551	1	12961	CO	Staphylococcus epidermidis
47552	2	27790	UR,CR8	Staphylococcus epidermidis
47564	1	12758	CO	Staphylococcus epidermidis
47616	4	51552	CO,UR,CR8,CR5	Staphylococcus epidermidis
47626	2	26030	CR8,CR5	Staphylococcus
47628	2	24716	CO,CR5	Geobacillus
47638	2	25646	CO,CR8	Staphylococcus haemolyticus
47663	2	26725	UR,CR8	Staphylococcus
47666	1	12519	CO	Staphylococcus epidermidis
47672	1	13157	CO	Staphylococcus epidermidis
47676	1	13422	CR8	Staphylococcus
47680	1	13487	UR	Staphylococcus epidermidis
47715	2	27383	UR,CR8	Staphylococcus epidermidis
47724	2	27391	CO,CR8	Staphylococcus epidermidis
47728	1	13460	UR	Staphylococcus
47738	1	11825	CR8	Staphylococcus sciuri
47756	2	26618	CO,CR5	Staphylococcus epidermidis
47761	1	12800	CO	Staphylococcus epidermidis
47766	1	13143	CR8	Staphylococcus
47792	1	13185	CR8	Staphylococcus epidermidis

47806	5	66097	CO,UR,CR8,CR5,CO_PMA	Staphylococcus epidermidis
47819	2	25013	UR,CO_PMA	Staphylococcus epidermidis
47821	1	13097	CO	Staphylococcus
47832	3	39998	CO,UR,CR5	Staphylococcus epidermidis
47841	3	37634	CO,UR,CR8	Staphylococcus
47862	1	13671	CR8	Staphylococcus
47869	1	13697	UR	Staphylococcus epidermidis
47878	3	40634	CO,UR,CR5	Staphylococcus epidermidis
47947	2	27067	UR,CR8	Staphylococcus
47960	1	12506	CR8	Brochotrix thermosphacta
47963	2	25929	CO,CR8	Staphylococcus haemolyticus
47993	1	13752	CR5	Staphylococcus epidermidis
48021	2	23791	UR,CR5	Staphylococcus arletiae
48027	1	12973	CO	Staphylococcus epidermidis
48039	2	25814	UR,CR8	Staphylococcus
48048	1	13429	UR	Staphylococcus
48075	4	51466	CO,UR,CR8,CR5	Staphylococcus epidermidis
48081	1	13438	UR	Staphylococcus epidermidis
48083	2	26820	UR,CR8	Staphylococcus epidermidis
48089	1	13370	CR8	Staphylococcus haemolyticus
48099	1	13229	CR8	Staphylococcus epidermidis
48122	1	13846	CR8	Staphylococcus epidermidis
48138	1	13155	CR8	Staphylococcus
48156	1	13239	CR8	Staphylococcus
48159	1	13465	CR8	Staphylococcus epidermidis
48186	1	13309	CR8	Staphylococcus epidermidis
48200	2	26327	UR,CR8	Staphylococcus
48213	2	26733	CO,CO_PMA	Bacillus
48215	1	13204	CO_PMA	Bacillus
48279	2	26844	CO,CO_PMA	Bacillus
48318	1	12927	CO_PMA	Bacillus
48364	1	13171	CO_PMA	Bacillus
48388	1	13471	CO_PMA	Bacillus
48423	2	26662	CO,CO_PMA	Bacillus
48440	1	13247	CO_PMA	Bacillus
48497	2	26338	CO,CO_PMA	Bacillus
48536	2	27046	CO,CO_PMA	Bacillus
48581	2	26582	CO,CO_PMA	Bacillus
48645	1	12513	CO_PMA	Bacillus
48660	1	12788	CO_PMA	Bacillus
48662	1	13373	CO_PMA	Bacillus
48675	1	13193	CO_PMA	Bacillus
48690	1	11855	CO_PMA	Bacillus
48691	1	13274	CO_PMA	Bacillus
48710	1	12836	CO	Bacillus
48776	1	12698	CR8_PMA	Bacillus
48784	1	12851	CO_PMA	Bacillus
48805	1	13152	CO_PMA	Bacillus
48819	2	25698	CO,CO_PMA	Bacillus
48821	2	26949	CO,CO_PMA	Bacillus

48825	1	11817	CO_PMA	Bacillus
48830	2	26537	UR,CR5	
48851	1	13156	CO_PMA	Bacillus
48861	1	13016	CO_PMA	Bacillus
48912	1	11896	CR5	Desulfotomaculum
48936	2	25491	CO,CO_PMA	Bacillus
48975	1	12973	CO_PMA	Bacillus
48981	1	12819	CO_PMA	Bacillus
49022	1	13029	CO_PMA	Bacillus
49050	1	12530	CO_PMA	Bacillus
49052	2	26593	CO,CO_PMA	Bacillus
49101	1	12163	CO	Thermoanaerobacterium saccharolyticum
49107	1	12819	CO_PMA	Bacillus
49129	1	13591	CO_PMA	Bacillus
49160	1	13405	CO_PMA	Bacillus
49167	2	26746	CO,CO_PMA	Bacillus
49168	1	13148	CO_PMA	Bacillus
49172	1	13538	CO_PMA	Bacillus
49178	2	27334	CO,CO_PMA	Bacillus
49187	2	26831	CO,CO_PMA	Bacillus
49213	1	11725	CO	Desulfotomaculum
49214	1	13583	CO_PMA	Bacillus
49265	1	13419	CO_PMA	Bacillus
49268	2	26440	CO,CO_PMA	Bacillus
49305	1	12680	CO_PMA	Bacillus
49312	1	11787	CO	Bacillus
49322	1	12183	CR8_PMA	Bacillus
49325	2	26619	CO,CO_PMA	Bacillus
49357	1	13373	CO_PMA	Bacillus
49365	1	13631	CO_PMA	Bacillus
49366	1	13371	CO_PMA	Bacillus
49395	2	26565	CO,CO_PMA	Bacillus
49397	1	12999	CR5	Thermicanus
49446	2	27046	CO,CO_PMA	Bacillus
49493	2	26856	CO,CO_PMA	Bacillus
49495	1	13413	CO_PMA	Bacillus
49516	1	12712	CR8	Bacillus acidicola
49532	2	25412	CO,CO_PMA	Bacillus
49591	1	13709	CO_PMA	Bacillus
49623	1	13216	CO_PMA	Bacillus
49637	2	27233	CO,CO_PMA	Bacillus
49665	1	11806	CR8	Bacillus acidicola
49669	1	13062	CO_PMA	Bacillus
49688	1	12845	CO_PMA	Bacillus
49766	1	13421	CO	Bacillus
49864	1	12941	CO_PMA	Bacillus
49874	1	12003	CO_PMA	Bacillus
49912	1	13176	CO_PMA	Bacillus
49937	1	13563	CO_PMA	Bacillus
49990	2	24741	CO,CR8	Veillonella

50031	2	24974	CR8,CR5	Paenibacillus
50043	1	11723	CO	Veillonella
50073	1	11880	CO	Veillonella
50100	1	11643	CR8	Paenibacillus
50102	2	24220	CO,CR8	Paenibacillus
50179	1	13058	CR8	Paenibacillus
50184	1	12641	CR5	Collinsella aerofaciens
50382	1	12298	CR8	Paenibacillus
50392	1	12794	CR8	Paenibacillus
50464	2	24918	CO,CR8	Veillonella
50477	1	12420	CR5	Collinsella aerofaciens
50564	1	12894	CO	Veillonella
50569	2	24271	CO,CR8	Veillonella
50574	1	11930	CO	Veillonella dispar
50648	1	12225	CR8	Paenibacillus
50707	2	24821	CO,CR8	Veillonella
50725	2	23280	CO,CR8	Veillonella
50779	1	11394	CR8_PMA	Paenibacillus
50847	2	23884	CO,CR5	Collinsella aerofaciens
50857	1	12428	CR8	Paenibacillus
50864	1	13552	CR5	Adlercreutzia
50911	1	12707	CR5	Paenibacillus
51048	1	11946	CR8	
51431	1	12040	CO	sfF
51571	1	12088	CO	sfA
51676	1	12945	CR5	
51836	3	39653	CO,UR,CR5	sfF
51890	1	13778	CR8	
51929	1	11941	CO	
51982	1	13397	CR8	
52142	1	12072	CR8	
52201	1	13386	CR8	HN1-15
52294	1	11877	CR8	sfC
52305	1	11998	UR	Roseiflexus
52341	1	12251	CR8	sfAT
52380	1	11769	CR8	Syntrophus
52401	2	24890	CO,CR8	
52457	1	12155	CO	sfC
52703	1	11523	CR8	Desulfobacterium
52737	1	11812	CO	sfE
52805	1	11813	CR5	HN1-15
52824	0	0 COURCR8CR5CO_PMAUR_PMACR8_PMACR5_PMA		
52843	1	12482	CR8	sfD
52935	1	13210	CR5	Chroococcidiopsis
53292	1	12412	CO	Anabaena
53368	2	24003	CO,CR8	Fischerella muscicola
53583	1	12029	CO	Aphanizomenon issatschenkoi
53672	1	12785	CO	Halomicronema
53678	2	25875	CR8,CR5	Phormidium animale
53679	1	12312	CR5	Deinococcus

53690	1	11973	CR5_PMA	A4b
53704	1	12016	CO	
53750	1	12521	CR8	Deinococcus
53818	1	11986	CO	Symploca
53827	1	13152	CO	Deinococcus
53955	2	25889	UR,CR8	sfB
53967	2	25335	CR8,CR5	sfB
54147	1	12150	CR5	
54344	1	12186	CO_PMA	SHAG537
54684	1	13169	CR5	
54850	1	12133	CO	
54955	2	24180	CO,CR8	HA73
55241	1	11704	CR8	
55347	2	25426	CO,CR8	
55518	1	13217	CO	
55774	1	12582	CO	
55906	1	11537	CR8	
56113	1	13119	CO	
56168	1	12366	CO	sfB
56623	1	12435	CO	
56900	1	12992	CO_PMA	
57019	1	11877	CO	
57308	1	12503	CR8	Isosphaera
57341	1	12354	CR8	Desulfovibrio putealis
57357	4	52622	CO,UR,CR8,CR5	Planctomyces
57583	3	36177	CO,UR,CR5	
57616	1	12717	CO	
57707	1	12209	CO	
57878	1	12297	CR5	Gemmamonas
57982	2	26638	CR8,CR5_PMA	sfM
58114	1	11983	CO	Cystobacter minus
58123	1	13022	CR5	
58316	1	12342	CR5	sfA
58369	2	24095	CO,CR5	
58422	1	12126	CO	sfA
58435	2	27111	CO_PMA,CR8_PMA	
58446	2	23922	CO,CR8	Cystobacter minus
58484	1	12626	CR5	sfF
58534	2	24108	CO,CR8	sfG
58535	1	12502	CO	
58556	1	11866	CO	Anaeromyxobacter sp. Fw109-5
58567	3	38739	CO,UR,CR5	
58579	1	12807	CO	sfC
58588	1	12352	CR5	
58597	1	12406	CO	sfC
58619	1	13227	CO	
58625	2	24658	CO,CR8	
58646	1	12482	CO	sfD
58667	1	11886	CO	sfA
58691	1	11751	CO	Archangium

58706	1	11611	CR8	Myxococcus
58728	1	11944	CR5	sfF
58818	1	12184	CR5	sfA
58886	2	24655	CO,CR8	Methylobacterium
58889	1	12244	CR8	Bosea
58959	2	23319	UR,CR8	Mycoplana
58971	3	38453	CO,UR,CR8	Brevundimonas diminuta
58976	1	12983	CR8	Bradyrhizobium canariense
58982	2	23362	CO,CR8	Brevundimonas
58987	1	12954	UR	Brevundimonas diminuta
58993	1	13402	CR5_PMA	Bradyrhizobium elkanii
59027	1	12273	CO	Rhodoplanes
59047	1	12124	CR5	
59053	1	12959	CR8	
59062	2	26033	UR,CR8	Brevundimonas
59070	1	12526	CO	sfA
59071	1	11912	CO	Brevundimonas diminuta
59087	1	11892	CR8	Methylobacterium adhaesivum
59105	1	11768	CO	
59127	2	25820	CO,CR8	
59143	2	24564	CR8_PMA,CR5_PMA	Bradyrhizobium
59158	1	12009	CR8	Brevundimonas diminuta
59178	2	25607	UR,CR8	Brevundimonas
59195	1	12148	CO	Brevundimonas diminuta
59196	1	12827	CR8	Brevundimonas diminuta
59198	2	25628	CO,CR8	
59212	1	11672	CO	Methylobacterium zatmanii
59224	1	12589	CR5	Rhodoplanes
59247	3	35332	CO,UR,CR5	Methylobacterium
59259	2	24035	CO,CR8	Methylobacterium komagatae
59279	2	25967	CO,CR8	
59284	1	12274	CO	Brevundimonas diminuta
59299	1	12394	CO	
59317	1	12156	CO	Brevundimonas diminuta
59318	2	24177	CR8,CR5	Mycoplana
59321	1	11750	CO	Caulobacter
59322	1	12164	CR8	Bosea
59373	1	12802	CR8	
59396	1	11675	CO	sfA
59404	3	35104	CO,UR,CR5	Methylobacterium
59410	1	11848	CR8	Methylobacterium
59417	1	11655	CR8	Methylobacterium
59420	2	24816	CO,CR8	Methylobacterium komagatae
59421	2	25782	CO,CR5	
59454	2	27106	CO,CR8	
59463	2	25845	CO,UR	Brevundimonas diminuta
59486	1	11956	CO	Bradyrhizobium
59524	1	13190	CR8_PMA	
59547	1	12773	CR5	Methylobacterium
59549	1	11726	CR8	Methylobacterium

59551	1	12493	CR8	Methylobacterium
59560	4	50130	CO,CO_PMA,CR8,CR5	Methylobacterium
59566	2	26231	CO,CR8	
59571	3	35818	CO,UR,CR5	Methylobacterium
59578	1	11535	CR8	
59636	1	12410	CO	Bradyrhizobium
59710	1	11816	CO	Methylobacterium
59718	1	12001	CO	Methylobacterium zatmanii
59725	3	38254	CO,UR,CR5	Methylobacterium
59740	3	35692	CO,UR,CR8	Brevundimonas
59754	1	11767	CO	Methylobacterium
59755	1	11993	CR8	
59760	3	37187	CO,UR,CR8	
59786	2	24758	CO,CR8	Methylobacterium fujisawaense
59791	1	12253	CO	Methylobacterium
59792	1	12367	CO_PMA	
59796	1	11722	CR5	Methylobacterium radiotolerans
59826	1	11904	CO	Methylosinus spорium
59837	3	37433	CO,UR,CR5	Skermanella
59875	4	51131	CO,UR,CR8,CR5	Brevundimonas
59890	1	11804	CO	Methylobacterium fujisawaense
59903	2	24822	CO,CR8	Methylobacterium komagatae
59904	2	25073	CO,CR8	Methylobacterium
59915	4	52135	CO,CO_PMA,CR8,CR5	Methylobacterium
59935	2	24399	UR,CR8	Bosea
59959	1	12717	CO	Caulobacter
59960	1	12494	CO	Brevundimonas diminuta
59983	1	12022	CO	Bradyrhizobium
59989	2	28391	CO_PMA,CR8_PMA	Afipia broomeae
60010	1	12948	UR	
60031	2	24437	CO,CR8	
60042	1	14106	CO_PMA	Afipia
60050	2	24451	CO,CR8	
60065	1	12116	CO	Brevundimonas diminuta
60071	2	25773	CO,CR8	
60072	2	24008	UR,CR8	Brevundimonas
60100	2	23760	CO,CR8	Brevundimonas
60105	1	11583	CR8	Skermanella
60119	4	49392	CO,UR,CR8,CR5	Brevundimonas
60205	3	36959	CO,UR,CR5	Sphingomonas wittichii
60211	2	23123	CO_PMA,CR8_PMA	Rhodoplanes
60231	1	11830	CR8	Roseomonas
60246	2	24965	CR8,CR5	Novosphingobium
60278	1	12120	CO	Sphingomonas wittichii
60279	1	12071	UR	
60281	4	51370	CO,UR,CR8,CR5	Sphingomonas
60291	1	12132	CR8	Sphingobium
60301	1	11764	CO	Sphingobium
60307	1	11854	CR5	Sphingomonas asaccharolytica
60315	5	61826		Sphingomonas

60328	1	12051	CR8	Devosia
60332	1	12147	CO_PMA	Sphingobium
60346	1	11607	CR8	Novosphingobium
60348	3	40032	CR5,CO_PMA,CR8_PMA	Sphingomonas
60351	2	23315	CO,CR8	Sphingomonas
60374	2	25385	CR8,CR5	Sphingobium herbicidovorans
60378	3	38603	CO,UR,CR5	
60395	3	38305	CR8,CO_PMA,CR8_PMA	Sphingobium
60398	2	24228	CO_PMA,CR8_PMA	Sphingomonas
60405	3	36320	CO,UR,CR5	
60421	1	12227	CR8_PMA	Sphingobium
60425	1	1	CR5_PMA	
60430	1	11969	CR8	Sphingomonas wittichii
60447	1	11765	CR8	Novosphingobium
60449	1	11943	CO	Sphingomonas
60467	3	39592	CO,UR,CR5	Roseomonas
60472	1	12846	CR8	Devosia
60475	3	38465	CO,UR,CR5	Roseomonas
60492	1	11714	CO	
60523	3	40082	CO,UR,CR5	
60538	1	12421	UR	Sphingobium
60557	1	12421	UR	Sphingobium
60560	2	23727	CO,CR8	Oceanicaulis
60564	1	11733	CR5	Sphingomonas
60565	1	11528	UR	Erythrobacter
60568	1	12338	CO_PMA	Sphingomonas
60579	2	23772	CO_PMA,CR8_PMA	Sphingobium
60608	1	12403	CR8	Novosphingobium
60638	1	12556	CR8	Novosphingobium
60672	2	24258	CO,CR8	Sphingomonas
60697	1	11763	UR	Sphingopyxis
60732	4	50432	CR8,CR5,CO_PMA,CR8_PMA	Sphingobium
60741	2	24161	CO,UR	sfZ
60758	1	12008	CR8	Sphingomonas
60769	1	11805	CO	Novosphingobium
60770	1	11769	CO_PMA	Sphingomonas
60808	2	25997	CO,CR5	Novosphingobium
60822	1	12438	UR	Sphingobium
60826	1	12131	CO_PMA	Sphingomonas
60827	4	50477		Sphingomonas
60837	3	36293	CO,UR,CR5	Novosphingobium
60840	1	11828	CO	
60851	1	11892	CO	Roseomonas
60858	1	11623	CR5	Sphingomonas
60902	1	11444	CO_PMA	Sphingobium
60910	1	12369	CO	
60916	2	25481	CO,CR5	Kaistobacter
60926	1	12743	CO	
60931	1	12597	CO_PMA	Sphingomonas
60961	1	12280	CO	Novosphingobium

60966	1	12317	CR8	Sphingomonas
60970	1	11765	CO_PMA	Sphingobium
61013	3	38693	CO,UR,CR5	Sphingobium
61046	1	12048	CR8	Novosphingobium
61060	3	37640	CO_PMA,CR8_PMA,CR5_PMA	Caulobacter leidya
61062	2	24005	CO,CR8	Sphingomonas
61082	2	24146	CO,CR5	Acidisphaera
61087	1	13145	CO	Sphingomonas
61094	2	26626	CO,UR	Sphingobium
61101	1	12289	UR	Novosphingobium resinovorum
61102	1	11774	CO_PMA	Sphingomonas yabuuchiae
61105	3	36764	CO,UR,CR8	Sphingobium
61106	1	12469	CR8	Novosphingobium
61127	1	12292	CO_PMA	Devosia
61133	3	35731	CO,UR,CR5	Sphingomonas
61158	5	62564	UR,CR8,CO_PMA,UR_PMA,CR8_PMA	Sphingomonas
61191	3	36925	CO,UR,CR5	Sphingomonas
61277	1	11944	CR8	12006
61285	1	12006	CR8	Devosia
61290	1	11746	CO	Sphingobium
61302	3	36253	CR8,CO_PMA,CR8_PMA	Sphingobium
61317	1	12861	UR	12861
61325	1	12813	CR5	12813
61327	2	23884	CO_PMA,CR8_PMA	Sphingobium
61333	1	11811	CO_PMA	11811
61336	1	12017	CO	12017
61355	3	38669	CO,UR,CR5	Sphingomonas
61385	1	12087	CO	Novosphingobium
61473	3	38711	CO,UR,CR5	Rhizobium
61538	1	11845	CO	Rubellimicrobium
61557	1	11866	CO	sfA
61612	1	13008	CO	Nordella
61677	1	13251	CR8	13251
61693	1	12427	CO	Rubellimicrobium
61699	1	13320	CO	Agrobacterium rubi
61764	1	12832	CO	13320
61774	1	12049	CO	Rhizobium
61785	1	12201	UR	Rhizobium
61810	1	12886	CO	Agrobacterium
61835	1	13260	CR5	Rhizobium
61909	4	51899	CO,UR,CR8,CR5	Rubellimicrobium
61913	1	12070	CO	Paracoccus aminovorans
61935	1	11484	UR	Rhizobium
61965	3	39310	CO,CO_PMA,CR8	Shinella
61966	1	13120	CO	Paracoccus
61984	1	11708	CR8	Paracoccus
62019	1	12797	CO	Paracoccus
62086	1	11861	CR8	Candidatus Liberibacter africanus
62194	1	12427	CO_PMA	Paracoccus
62220	1	11663	CO_PMA	Paracoccus

62280	1	13206	CO	Paracoccus
62320	1	12087	CO	Rhizobium
62348	1	13252	CO	Paracoccus
62371	1	12227	CO_PMA	Paracoccus
62391	1	12725	CO	Nautella italicica
62417	1	12631	CO	
62419	1	11975	CO	Rhizobium
62424	1	12691	CO	Rhizobium
62439	2	24266	CO,CR5	Rhizobium
62450	1	13108	CO	Rhizobium
62476	2	27058	CO,CR8	Paracoccus
62483	2	2	CR8_PMA,CR5_PMA	
62496	2	25254	CO,CO_PMA	
62512	1	12153	CO	Agrobacterium rubi
62521	1	11849	CR8	Paracoccus aminovorans
62538	1	12500	CO	
62578	1	11694	CO_PMA	
62585	1	13139	CR8	Paracoccus yeei
62664	2	26935	CO,UR	sfA
62669	1	12090	CO	Rhizobium
62719	1	12276	CR8	Paracoccus
62724	1	11676	CO	
62734	1	13415	CR8	Paracoccus
62760	1	12302	CO	Rhizobium
62769	1	12723	CR5	Paracoccus aminovorans
62790	1	12321	CO	
62812	1	11918	CO	Rhizobium
62819	1	12130	CO	
62825	2	24549	CO,CR8	Rubellimicrobium
62853	1	12806	CR8	
62890	1	12316	CR8	Paracoccus
62927	1	11664	CR8	
63093	1	13161	CR8	
63161	1	11766	UR	Chryseobacterium
63182	1	12518	UR	
63187	1	11933	CO	Chryseobacterium
63286	1	12329	CR8	Chryseobacterium
63336	1	12522	CR8	
63400	1	11835	CR5	Chryseobacterium
63573	3	39301	CO,UR,CR5	Chryseobacterium
63711	1	12149	UR	Chryseobacterium
63864	2	25030	CR8,CR5	Chryseobacterium
64220	2	25144	CR8,CR5	Chryseobacterium
64568	2	24912	CO,CR8	
64623	1	11875	CR5	Chryseobacterium
64654	1	11751	CO	Chryseobacterium
64734	1	12371	CR5	Chryseobacterium
64986	1	12015	CR8	Chryseobacterium
65050	1	11923	CR8	Chryseobacterium
65435	1	12410	CR8	Chryseobacterium

65635	1	12926	CR8		Chryseobacterium
65807	1	12724	CR8		Chryseobacterium
65875	2	25512	CR8,CR5		
65912	1	11894	CO		Flavobacterium
66457	1	12322	UR		Wautersiella
66513	1	12685	UR		Wautersiella
66605	2	24064	CO,CR8		Flavobacterium columnare
66715	2	24424	CR8,CR5		Flavobacterium
66896	1	12297	UR		Sphingobacterium
67028	1	11625	CR8		Prevotella
67542	1	11698	CR5		Prevotella
67664	1	11728	CR8		Prevotella
68290	1	11782	CR8		
68573	1	12789	CR5		
69046	1	12758	CO		
69286	1	11760	CR5		
69319	1	12649	CO		
69417	1	12463	CO		
69519	1	12266	CO		
69633	1	11732	CO		
69681	2	23705	CO,CR5		
69770	2	27711	CO,CR5		
69931	3	38502	CO,UR,CR5		
69992	3	36059	CO,UR,CR8		Finegoldia
70043	1	12593	CR5		
70051	3	36427	CO,UR,CR8		Finegoldia magna
70082	2	26512	CO,CR8		Eubacterium
70118	2	24434	CO,CR8		Eubacterium
70179	2	25779	CR8,CR5		
70180	1	12690	CR5		Peptoniphilus
70289	1	12934	CO		Peptoniphilus
70417	1	12026	CR5		
70425	1	12662	CO		
70485	1	12711	CO		
70579	1	12663	CO		
70606	2	25566	CO,CR5		
70627	1	12484	CR8		Helcococcus
70639	2	24646	CO,CR8		
70669	2	25006	CO,CR8		Anaerococcus
70706	1	12182	CR8		Anaerococcus
70712	1	13083	CR5		Anaerococcus
70729	1	11956	CR8		
70775	1	11768	CR8		
70828	1	11793	CO_PMA		Spiroplasma
70838	1	12020	CO		
70850	3	38593	CO,UR,CR5		Anaerococcus
70892	1	12258	CO		
70902	1	11777	CO		
70911	3	39312	CO,UR,CR5		
70956	1	12007	CO		

70959	1	13196	CR5	Anaerococcus
70970	2	25024	CO,CR8	
71020	2	26145	CR8,CR5	Anaerococcus
71056	3	38021	CO,UR,CR5	
71075	2	26288	CR8,CR5	Anaerococcus
71089	1	11855	CR8	Anaerococcus hydrogenalis
71091	1	12535	CR8	Anaerococcus
71105	1	12160	CO	
71113	1	11714	CR8	Anaerococcus
71159	1	11871	CO	
71178	1	11819	CO	
71190	1	13010	CO	
71191	1	12668	CR8	Anaerococcus
71202	4	53724	CO,UR,CR8,CR5	Anaerococcus
71224	1	11898	CR8	Anaerococcus prevotii
71226	1	13106	CR8	Anaerococcus
71261	3	36617	CO,UR,CR8	
71274	3	36646	CO,UR,CR5	
71411	1	12388	CR8	sfA
71526	1	11881	CO	Zplanct13
71601	3	36162	CO,UR,CR5	sfA
71623	1	11738	CO	PSB-M-3
71820	2	25564	CR8,CR5	Lactobacillus crispatus
71863	1	12258	CR8	Leuconostoc citreum
71907	1	12044	CR8	Leuconostoc
71916	1	12106	CR8	Leuconostoc citreum
71919	3	35960	CO,UR,CR5	Leptotrichia
71936	1	11780	UR	Lactobacillus
71954	1	12580	UR	Lactobacillus
71968	1	11613	UR	Lactobacillus
72006	1	11728	CR5	Lactobacillus
72019	1	12021	UR	Lactobacillus panis
72042	1	12984	UR	Lactobacillus
72061	3	37244	CO,UR,CR5	Rickettsia australis
72132	1	13585	CR5	Lactobacillus
72147	2	25068	UR,CR8	Leuconostoc citreum
72160	1	13004	UR	Lactobacillus
72197	1	12573	CR5	Lactobacillus
72200	1	12776	CR8	Leuconostoc citreum
72201	2	25688	CO,CR5	Lactobacillus
72285	2	25839	CO,CR5	Lactobacillus
72329	1	12322	CO	Rickettsia
72453	1	12038	CR8	Leuconostoc citreum
72531	1	12811	CR8	Carnobacterium divergens
72563	2	24717	CR8,CR5	Lactobacillus
72582	1	12221	CR8	
72587	1	12305	CO	Clostridium perfringens
72592	1	13179	CR5	Rickettsia akari
72597	1	13251	UR	Lactobacillus
72610	1	12113	CR8	Leuconostoc citreum

72629	1	12301	CR8	Leuconostoc
72637	1	11639	CR8	Lactobacillus
72646	1	12113	CR8	Leuconostoc
72729	1	12371	CR8	Lactobacillus
72761	2	25742	CO,CR8	Lactobacillus
72795	1	11772	CR8	
72839	2	26649	CO,CR8	Lactobacillus
72855	1	12698	UR	Lactobacillus
72859	1	12055	UR	Lactobacillus crispatus
72884	2	25168	CR8,CR5	Lactobacillus
72916	1	12320	CR8	Lactobacillus
72927	1	12177	CR8	Leuconostoc
72956	1	12587	CR5	Rickettsia akari
72987	1	11823	CR8	Leuconostoc
73168	1	12009	CR5	Dyadobacter
73491	1	12616	CR5	Runella
73514	2	27198	CR8,CR5	Hymenobacter
73689	2	25281	UR,CR8	Cytophaga
73726	1	11764	CR8	Candidatus Odyssella
73871	1	12733	CR8	
73923	1	12801	CO	Fulvivirga
74031	4	49322	CO,UR,CR8,CR5	Hymenobacter
74065	2	24333	CR8,CR5	Hymenobacter
74285	2	25557	CO,CR5	Hymenobacter
74655	1	11981	CO	
74689	2	24092	CO,CR5	sfJ
74948	1	12550	CO	
75099	3	36716	CO,UR,CR5	sfA
75605	1	12253	CO	
75644	3	37266	CO,UR,CR5	sfA
75661	1	12101	CR8	sfJ
75676	1	11654	CR8	
75878	1	13002	CO	sfA
76572	1	12997	CO	Spirochaeta
CO	945	11918756		
CO_PMA	203	2404656		
CR5	639	8097025		
CR5_PMA	23	143800		
CR8	1011	12613814		
CR8_PMA	69	732870		
UR	513	6383769		
UR_PMA	2	25634		

Table S10.2. real edge table for rOTU network  
 (based on PhyloChip data) and visualization in  
 Cytoscape

from	to	eweight
CO	10116	12142
CO	10173	13212
CO	10596	12310
CO	10657	12765
CO	10737	11758
CO	10744	12389
CO	10760	12733
CO	10870	12572
CO	1095	12846
CO	10995	12305
CO	11150	13235
CO	11204	13581
CO	11208	12047
CO	11318	13008
CO	11490	12950
CO	11636	13283
CO	11657	13021
CO	11724	12904
CO	11897	11821
CO	11929	11737
CO	11980	12000
CO	12094	13336
CO	12175	12449
CO	12187	12139
CO	12211	11876
CO	12392	13042
CO	12745	12717
CO	12870	12851
CO	12882	12049
CO	12912	12554
CO	12928	11758
CO	12934	11996
CO	13091	12582
CO	13092	12017
CO	13106	12186
CO	13122	12581
CO	13274	12808
CO	13362	11753
CO	13882	12174
CO	14199	12840
CO	14292	12474
CO	14622	12390
CO	1481	12449
CO	14831	13172
CO	15016	12224
CO	15127	12926
CO	15459	12157
CO	15581	12883
CO	15621	12073
CO	15679	11703
CO	15719	12076
CO	15731	12129
CO	15831	12183
CO	15917	12449
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CO	15978	11716
CO	15987	12425
CO	16065	12179
CO	16161	12379
CO	16221	12675
CO	16340	12229
CO	16349	12525
CO	16376	12836

CO	16384	12538
CO	16425	12382
CO	16495	12702
CO	16687	13050
CO	16734	12643
CO	16819	12434
CO	16847	12169
CO	16916	12113
CO	16937	13983
CO	17357	12146
CO	17392	13006
CO	19752	11891
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CO	21155	11997
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CO	23140	11862
CO	23182	12434
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CO	24119	12096
CO	24447	13098
CO	24455	11751
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CO	24646	11747
CO	24700	11938
CO	24841	12027
CO	24857	12123
CO	24978	12300
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CO	25078	12295
CO	25126	11802
CO	25139	12505
CO	25273	11677
CO	25288	12453
CO	25291	11832
CO	25319	11767
CO	25341	13178
CO	25380	12952
CO	25499	12043
CO	25549	11785
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CO	25604	11867
CO	25719	11818
CO	25759	11729
CO	25804	11964
CO	25901	13219
CO	25950	12251
CO	25994	12652
CO	26041	12013
CO	26109	12075
CO	26129	11990
CO	26219	12034
CO	26227	12453
CO	26356	11745
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CO	26430	11954
CO	26462	12772
CO	26599	12082
CO	26611	11793
CO	26613	11866
CO	26744	11733
CO	26746	12132
CO	26768	12505
CO	26910	11990

CO	26984	11803
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CO	28989	12163
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CO	29909	12436
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CO	30922	12691
CO	30996	14191
CO	31205	12816
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CO	36785	13243
CO	36787	12068
CO	36803	13635
CO	36823	12201
CO	36837	12727
CO	36911	13247
CO	36930	12302
CO	36931	11937
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CO	36937	13155
CO	36943	13112
CO	36983	12006
CO	37007	12430
CO	37025	12507
CO	37036	12285
CO	37061	12684
CO	37089	13166
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CO	37124	12637
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CO	37161	12825
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CO	37178	13148
CO	37183	12620
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CO	37226	12388
CO	37268	12095
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CO	37325	13116
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CO	37506	13089
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CO	37549	12052
CO	37576	13109
CO	37598	13184
CO	37630	12109
CO	37671	12795
CO	37679	12538
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CO	37779	12834
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CO	37955	11882
CO	37963	12125
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CO	38640	13368
CO	38646	13082
CO	38691	12262
CO	38721	12670
CO	38747	12222
CO	38755	12545
CO	38823	12702
CO	38848	12958
CO	38907	13685
CO	38920	12946
CO	38958	13215
CO	38996	13656
CO	39081	13791
CO	39084	11970
CO	39092	12732
CO	39094	11718
CO	39109	12597
CO	39124	13012
CO	39242	12308
CO	39259	12830
CO	39424	12729
CO	39435	12599
CO	39484	12949
CO	39541	12805
CO	39558	12953
CO	39602	12378
CO	39646	11672
CO	39650	13530
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CO	39719	13211
CO	39733	13728
CO	39746	12532
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CO	39819	11771

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CO	40171	13555
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CO	40188	12255
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CO	40199	12662
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CO	40206	13049
CO	40210	13485
CO	40219	13412
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CO	40352	13425
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CO	40436	13343
CO	40442	12854
CO	40455	13034
CO	40474	13264
CO	40479	13337
CO	40484	13006
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CO	40495	13011
CO	40505	13513
CO	40510	13234
CO	40512	13181
CO	40522	12893
CO	40535	12662
CO	40549	12071

CO	40558	12871
CO	40568	12966
CO	40575	13213
CO	40586	13512
CO	40597	12877
CO	40610	13336
CO	40611	13356
CO	40619	12366
CO	40621	12827
CO	40629	13281
CO	40639	12950
CO	40640	12805
CO	40666	12936
CO	40678	13037
CO	40686	13526
CO	40696	12743
CO	40697	12803
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CO	40740	13356
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CO	40743	12303
CO	40749	13506
CO	40753	12860
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CO	40834	12603
CO	40846	12870
CO	40861	12831
CO	40875	13121
CO	40884	12838
CO	40890	12212
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CO	40912	12639
CO	40917	13240
CO	40919	12679
CO	40921	12976
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CO	41079	12569
CO	41080	13477

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CO	41110	12431
CO	41114	12886
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CO	41199	12681
CO	41209	12613
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CO	41235	13329
CO	41250	13077
CO	41275	13107
CO	41284	12914
CO	41285	13280
CO	41288	12791
CO	41293	13671
CO	41301	12540
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