

Table S1. Number of raw reads and cleaned tags obtained from *R. norvegicus* gut, stomach, and lungs.

Sample ID	Specimens	Total raw reads	Total clean tags	Q20(%)	Q30(%)
A02	Gut	124,767	112,689	98	93.6
A04	Gut	130,049	115,352	97.8	93
D02	Gut	126,997	117,669	98	93.5
D04	Gut	124,202	114,333	98	93.5
E02	Gut	124,283	105,546	97.9	93.4
E04	Gut	125,365	107,436	97.4	92.3
H04	Gut	130,509	119,215	98	93.4
A01	Stomach	128,371	113,866	98	93.7
A03	Stomach	121,698	109,333	98	93.4
D01	Stomach	120,102	107,655	97.9	93.1
E01	Stomach	127,364	114,193	97.8	93.1
D03	Stomach	122,405	110,556	98	93.3
E03	Stomach	131,065	117,557	97.9	93.1
H01	Stomach	121,451	110,476	98	93.4
L01	Lung	125,838	103,357	98.1	93.7
Z01	Lung	125,987	112,549	97.8	93.1
Z02	Lung	123,550	114,417	98.2	94
Z05	Lung	123,725	109,861	98.1	93.8
Z06	Lung	120,422	106,576	98.4	94.5
Z07	Lung	122,492	108,152	97.9	93.3
Z08	Lung	125,168	108,701	98.2	94
Total	--	2,625,810	2,339,489	97.97 (avg.)	93.44 (avg.)

Table S2. Total number of OTUs obtained from *R. norvegicus* gut, stomach, and lungs.

Sample ID	Specimens	No. of OTUs	No. of seqs
A02	Gut	187	102,606
A04	Gut	263	96,255
D02	Gut	122	106,377
D04	Gut	168	102,454
E02	Gut	291	75,092
E04	Gut	142	98,629
H04	Gut	141	113,417
A01	Stomach	405	89,850
A03	Stomach	493	102,038
D01	Stomach	272	101,002
D03	Stomach	281	103,772
E01	Stomach	523	89,906
E03	Stomach	559	111,214
H01	Stomach	514	100,966
Z01	Lung	440	104,856
Z02	Lung	318	109,065
Z05	Lung	422	84,659
Z06	Lung	488	64,323
Z07	Lung	541	92,482
Z08	Lung	415	75,396
L01	Lung	109	70,806
Total	--	7,094	1,995,165

Supplementary Table S3. Top 15 OUTs abundance among the *R. norvegicus* gut, lungs, and stomach groups

OTUs	Gut	Lung	Stomach	Grade
OTU_1:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus johnsonii	0.380706	0.062072	0.301744	15
OTU_4:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Limosilactobacillus reuteri	0.140509	0.014289	0.050605	14
OTU_3:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Alcaligenaceae,g:Bordetella,s:Bordetella hinzii	0.031462	0.156057	0.000537	13
OTU_6:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Turicibacter,s:Turicibacter sp. LA61	0.142502	0.013454	0.009152	12
OTU_5:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus intestinalis	0.011561	0.011139	0.101311	11

OTU_10:k: Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus murinus	0.01064	0.057697	0.026284	10
OTU_7:k: Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Bifidobacteriales,f:Bifidobacteriaceae,g:Bifidobacterium,s:Bifidobacterium faecale	0.002024	0.050212	0.027289	9
OTU_13:k: Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Streptococcaceae,g:Streptococcus,s:Streptococcus gallolyticus	0.003058	0.040874	0.03094	8
OTU_1149:k: Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus acidophilus	0.035032	0.012738	0.022874	7
OTU_22:k: Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotella,s:uncultured Prevotella	9.07E-05	0.044501	0.008811	6
OTU_9:k: Bacteria,p:Campilobacterota,c:Campylobacteria,o:Campylobacteriales,f:Helicobacteraceae,g:Helicobacter,s:Helicobacter apodemus	0.02684	0.003566	0.021162	5
OTU_8:k: Bacteria,p:Campilobacterota,c:Campylobacteria,o:Campylobacteriales,f:Helicobacteraceae,g:Helicobacter,s:Helicobacter muridarum	0.020055	0.001105	0.028215	4
OTU_15:k: Bacteria,p:Firmicutes,c:Bacilli,o:Staphylococcales,f:Staphylococcaceae,g:Macrococcus,s:Macrococcus goetzii	0.017565	0.023584	0.003415	3
OTU_12:k: Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Enterobacteriales,f:Enterobacteriaceae,g:Escherichia-Shigella,s:E. coli	0.016709	0.011207	0.015924	2
OTU_11:k: Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Burkholderiaceae,g:Ralstonia,s:Ralstonia insidiosa	0.043501	6.65E-06	2.86E-05	1

Keynote: k: kingdom, p: phylum, c: class, o: order, f: family, g: genus, s: species

Supplementary Table S4. Details of taxonomic levels among the top 20 OTUs in the *Rattus norvegicus* gut, lung, and stomach.

OTUs	Gut	Lung	Stomach
OTU_1:k: Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus johnsonii	0.380706	0.062072	0.301744
OTU_4:k: Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Limosilactobacillus reuteri	0.140509	0.014289	0.050605
OTU_3:k: Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Alcaligenaceae,g:Bordetella, s:Bordetella hinzii	0.031462	0.156057	0.000537
OTU_6:k: Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Turicibacter,s:Turicibacter sp. LA61	0.142502	0.013454	0.009152
OTU_5:k: Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus intestinalis	0.011561	0.011139	0.101311
OTU_10:k: Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus murinus	0.01064	0.057697	0.026284
OTU_7:k: Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Bifidobacteriales,f:Bifidobacteriaceae,g:Bifidobacterium, s:Bifidobacterium faecale	0.002024	0.050212	0.027289
OTU_13:k: Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Streptococcaceae,g:Streptococcus,s:Streptococcus gallolyticus	0.003058	0.040874	0.03094
OTU_1149:k: Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus acidophilus	0.035032	0.012738	0.022874
OTU_9:k: Bacteria,p:Campilobacterota,c:Campylobacteria,o:Campylobacteriales,f:Helicobacteraceae,g:Helicobacter,s:Helicobacter apodemus	0.02684	0.003566	0.021162
OTU_8:k: Bacteria,p:Campilobacterota,c:Campylobacteria,o:Campylobacteriales,f:Helicobacteraceae,g:Helicobacter,s:Helicobacter muridarum	0.020055	0.001105	0.028215
OTU_22:k: Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotella, s:uncultured Prevotella	9.07E-05	0.044501	0.008811

OTU_11:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Burkholderiaceae,g:Ralstonia, s:Ralstonia insidiosa	0.043501	6.65E-06	2.86E-05
OTU_12:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Enterobacterales,f:Enterobacteriaceae,g:Escherichia-Shigella, s:E. coli	0.016709	0.011207	0.015924
OTU_15:k:Bacteria,p:Firmicutes,c:Bacilli,o:Staphylococcales,f:Staphylococcaceae,g:Macrococcus,s:Macrococcus goetzii	0.017565	0.023584	0.003415
OTU_14:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Porphyromonadaceae,g:Porphyromonas,s:uncultured bacterium	3.74E-05	0.034643	0.000664
OTU_16:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Atopobiaceae,g:Olsenella,s:uncultured bacterium	0.000933	0.01331	0.018105
OTU_23:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pasteurellales,f:Pasteurellaceae,g:Rodentibacter,s:Pasteurellaceae bacterium	0.000351	0.028348	0.005274
OTU_17:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus, s:Limosilactobacillus mucosae	0.003985	0.010735	0.016678
OTU_18:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Bifidobacteriales,f:Bifidobacteriaceae,g:Bifidobacterium,s:Bifidobacterium pseudolongum	0.001172	0.017402	0.009252

Keynote: k: kingdom, p: phylum, c: class, o: order, f: family, g: genus, s: species

Supplementary Table S5. Values of heatmap based on Bray-Curtis distance.

Samples	L01	A01	A03	D01	E01	D03	E03	H01	Z01	Z02	Z05	Z06	Z07	Z08	A02	A04	D02	D04	E02	E04	H04
L01	0	0.958	0.980	0.986	0.992	0.926	0.921	0.958	0.980	0.988	0.964	0.972	0.976	0.968	0.989	0.983	0.994	0.927	0.981	0.996	0.989
A01	0.958	0	0.534	0.617	0.600	0.504	0.535	0.560	0.412	0.941	0.571	0.573	0.584	0.506	0.484	0.611	0.736	0.689	0.714	0.864	0.548
A03	0.980	0.534	0	0.422	0.676	0.483	0.434	0.561	0.741	0.931	0.699	0.651	0.704	0.674	0.418	0.477	0.650	0.656	0.776	0.919	0.384
D01	0.986	0.617	0.422	0	0.706	0.542	0.453	0.461	0.835	0.944	0.756	0.670	0.784	0.750	0.524	0.328	0.426	0.536	0.751	0.915	0.469
E01	0.992	0.600	0.676	0.706	0	0.664	0.669	0.553	0.626	0.961	0.518	0.515	0.542	0.589	0.767	0.758	0.768	0.789	0.673	0.954	0.749
D03	0.926	0.504	0.483	0.542	0.664	0	0.396	0.517	0.678	0.932	0.601	0.541	0.610	0.560	0.533	0.524	0.683	0.667	0.726	0.927	0.535
E03	0.921	0.535	0.434	0.453	0.669	0.396	0	0.511	0.745	0.922	0.702	0.591	0.651	0.651	0.437	0.367	0.587	0.601	0.723	0.902	0.443
H01	0.958	0.560	0.561	0.461	0.553	0.517	0.511	0	0.680	0.942	0.620	0.567	0.548	0.612	0.663	0.637	0.669	0.704	0.686	0.928	0.666
Z01	0.980	0.412	0.741	0.835	0.626	0.678	0.745	0.680	0	0.946	0.537	0.586	0.497	0.576	0.740	0.854	0.853	0.862	0.740	0.849	0.816
Z02	0.988	0.941	0.931	0.944	0.961	0.932	0.922	0.942	0.946	0	0.958	0.955	0.949	0.962	0.958	0.931	0.954	0.708	0.931	0.960	0.967
Z05	0.964	0.571	0.699	0.756	0.518	0.601	0.702	0.620	0.537	0.958	0	0.348	0.363	0.440	0.823	0.821	0.805	0.832	0.594	0.950	0.826
Z06	0.972	0.573	0.651	0.670	0.515	0.541	0.591	0.567	0.586	0.955	0.348	0	0.384	0.365	0.775	0.716	0.721	0.745	0.572	0.948	0.773
Z07	0.976	0.584	0.704	0.784	0.542	0.610	0.651	0.548	0.497	0.949	0.363	0.384	0	0.462	0.832	0.828	0.813	0.845	0.674	0.943	0.835
Z08	0.968	0.506	0.674	0.750	0.589	0.560	0.651	0.612	0.576	0.962	0.440	0.365	0.462	0	0.730	0.770	0.816	0.788	0.690	0.954	0.733
A02	0.989	0.484	0.418	0.524	0.767	0.533	0.437	0.663	0.740	0.958	0.823	0.775	0.832	0.730	0	0.376	0.653	0.647	0.806	0.773	0.218

A04	0.983	0.611	0.477	0.328	0.758	0.524	0.367	0.637	0.854	0.931	0.821	0.716	0.828	0.770	0.376	0	0.406	0.432	0.728	0.889	0.365
D02	0.994	0.736	0.650	0.426	0.768	0.683	0.587	0.669	0.853	0.954	0.805	0.721	0.813	0.816	0.653	0.406	0	0.578	0.744	0.895	0.646
D04	0.927	0.689	0.656	0.536	0.789	0.667	0.601	0.704	0.862	0.708	0.832	0.745	0.845	0.788	0.647	0.432	0.578	0	0.634	0.923	0.645
E02	0.981	0.714	0.776	0.751	0.673	0.726	0.723	0.686	0.740	0.931	0.594	0.572	0.674	0.690	0.806	0.728	0.744	0.634	0	0.923	0.783
E04	0.996	0.864	0.919	0.915	0.954	0.927	0.902	0.928	0.849	0.960	0.950	0.948	0.943	0.954	0.773	0.889	0.895	0.923	0.923	0	0.907
H04	0.989	0.548	0.384	0.469	0.749	0.535	0.443	0.666	0.816	0.967	0.826	0.773	0.835	0.733	0.218	0.365	0.646	0.645	0.783	0.907	0

A01 (stomach); A03 (stomach); D01 (stomach); E01 (stomach); D03 (stomach); E03 (stomach); H01 (stomach)
L01 (lung); Z01 (lung); Z02 (lung); Z05 (lung); Z06 (lung); Z07 (lung); Z08 (lung)
A02 (gut); A04 (gut); D02 (gut); D04 (gut); E02 (gut); E04 (gut); H04 (gut)

Supplementary Table S6. Values of heatmap based on Euclidean distance.

Samples	L01	A01	A03	D01	E01	D03	E03	H01	Z01	Z02	Z05	Z06	Z07	Z08	A02	A04	D02	D04	E02	E04	H04
L01	0	1.404	1.412	1.413	1.412	1.394	1.388	1.402	1.409	1.412	1.4015	1.408	1.409	1.405	1.412	1.411	1.413	1.400	1.411	1.414	1.413
A01	1.404	0	0.727	0.833	0.806	0.577	0.613	0.919	0.852	1.399	0.9246	0.841	1.006	0.596	0.565	0.677	1.038	0.905	1.1767	1.244	0.626
A03	1.412	0.727	0	0.637	0.931	0.623	0.533	0.835	1.159	1.401	1.1093	0.925	1.161	0.823	0.470	0.598	0.988	0.876	1.205	1.358	0.477
D01	1.413	0.833	0.637	0	0.889	0.653	0.531	0.502	1.217	1.402	1.0681	0.861	1.146	0.900	0.697	0.507	0.712	0.822	1.168	1.360	0.666
E01	1.412	0.806	0.931	0.889	0	0.830	0.836	0.846	1.044	1.398	0.788	0.802	0.812	0.780	0.900	0.901	1.089	1.045	1.135	1.372	0.884
D03	1.394	0.577	0.623	0.653	0.830	0	0.387	0.807	1.083	1.398	0.972	0.775	1.029	0.646	0.483	0.511	0.992	0.825	1.166	1.347	0.488
E03	1.388	0.613	0.533	0.531	0.836	0.387	0	0.792	1.130	1.400	1.062	0.812	1.089	0.731	0.332	0.286	0.883	0.741	1.167	1.335	0.326
H01	1.402	0.919	0.835	0.502	0.846	0.807	0.792	0	1.190	1.403	1.029	0.944	1.077	0.947	0.906	0.874	1.064	1.042	1.213	1.368	0.902
Z01	1.409	0.852	1.159	1.217	1.044	1.083	1.130	1.190	0	1.399	0.980	1.023	0.907	0.912	1.125	1.183	1.279	1.236	1.295	1.200	1.170
Z02	1.412	1.399	1.401	1.402	1.398	1.398	1.400	1.403	1.399	0	1.397	1.397	1.396	1.396	1.401	1.385	1.401	1.002	1.367	1.407	1.401
Z05	1.401	0.924	1.109	1.068	0.788	0.972	1.062	1.029	0.980	1.397	0	0.554	0.559	0.716	1.129	1.108	1.149	1.170	1.060	1.372	1.127
Z06	1.408	0.841	0.925	0.861	0.802	0.775	0.812	0.944	1.023	1.397	0.554	0	0.725	0.604	0.919	0.848	0.954	0.995	0.954	1.356	0.918
Z07	1.409	1.006	1.161	1.146	0.812	1.029	1.089	1.077	0.907	1.396	0.559	0.725	0	0.824	1.171	1.161	1.211	1.210	1.196	1.378	1.171
Z08	1.405	0.596	0.823	0.900	0.780	0.646	0.731	0.947	0.912	1.396	0.716	0.604	0.824	0	0.767	0.811	1.089	0.984	1.119	1.355	0.767
A02	1.412	0.565	0.470	0.697	0.900	0.483	0.332	0.906	1.125	1.401	1.129	0.919	1.171	0.767	0	0.444	1.003	0.808	1.188	1.206	0.303
A04	1.411	0.677	0.598	0.507	0.901	0.511	0.286	0.874	1.183	1.385	1.108	0.848	1.161	0.811	0.444	0	0.678	0.654	1.139	1.348	0.439
D02	1.413	1.038	0.988	0.712	1.089	0.992	0.883	1.064	1.279	1.401	1.149	0.954	1.211	1.089	1.003	0.678	0	0.864	1.157	1.366	1.00

D04	1.400	0.905	0.876	0.822	1.045	0.825	0.741	1.042	1.236	1.002	1.170	0.995	1.210	0.984	0.808	0.654	0.864	0	0.987	1.357	0.808
E02	1.411	1.176	1.205	1.168	1.135	1.166	1.167	1.213	1.295	1.367	1.060	0.954	1.196	1.119	1.188	1.139	1.157	0.987	0	1.375	1.178
E04	1.414	1.244	1.358	1.360	1.372	1.347	1.335	1.368	1.200	1.407	1.372	1.356	1.378	1.355	1.206	1.348	1.366	1.357	1.375	0	1.352
H04	1.413	0.626	0.477	0.666	0.884	0.488	0.326	0.902	1.170	1.401	1.127	0.918	1.171	0.7675	0.303	0.439	1.002	0.808	1.178	1.352	0

A01 (stomach); A03 (stomach); D01 (stomach); E01 (stomach); D03 (stomach); E03 (stomach); H01 (stomach)
L01 (lung); Z01 (lung); Z02 (lung); Z05 (lung); Z06 (lung); Z07 (lung); Z08 (lung)
A02 (gut); A04 (gut); D02 (gut); D04 (gut); E02 (gut); E04 (gut); H04 (gut)

Supplementary Table S7. Unique 202 OTUs in lung samples, contributing to variance in the overall sequences obtained.

No.	OUT descriptions
1	OTU_583:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,g:Parvimonas,s:Uncultured bacterium
2	OTU_213:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pseudomonadales,f:Moraxellaceae,g:Acinetobacter,s:Acinetobacter townneri
3	OTU_1306:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Chitinophagales,f:Chitinophagaceae,g:Cnuella,s:Uncultured bacterium
4	OTU_430:k:Bacteria,p:Fusobacteriia,c:Fusobacteriia,o:Fusobacteriales,f:Fusobacteriaceae,g:Cetobacterium,s:Cetobacterium somerae
5	OTU_814:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pasteurellales,f:Pasteurellaceae,s:[Actinobacillus] muris
6	OTU_618:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Porphyromonadaceae,g:Porphyromonas
7	OTU_1254:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotella
8	OTU_3288:k:Bacteria,p:Firmicutes,c:Bacilli,o:Mycoplasmatales,f:Mycoplasmataceae,g:Mycoplasma,s:Uncultured Mycoplasma
9	OTU_3537:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria
10	OTU_930:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:[Eubacterium]-coprostanoligenes group
11	OTU_1423:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotella
12	OTU_1459:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pseudomonadales,f:Moraxellaceae,g:Moraxella,s:uncultured bacterium
13	OTU_4466:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,g:Gallicola,s:Miniphocibacter massiliensis
14	OTU_3367:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pasteurellales,f:Pasteurellaceae,s:Rodentibacter pneumotropicus
15	OTU_3278:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Enterobacteriales,f:Enterobacteriaceae,g:Plesiomonas
16	OTU_4390:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pasteurellales,f:Pasteurellaceae,s:Pasteurellaceae bacterium
17	OTU_1688:k:Bacteria,p:Chloroflexi,c:Chloroflexia,o:Thermomicrobiales,f:JG30-KF-CM45

18 OTU_3070:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Flavobacteriales,f:Weeksellaceae,g:Bergeyella
 19 OTU_2779:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Propionibacteriales,f:Propionibacteriaceae,g:Micropruina
 20 OTU_4124:k:Bacteria,p:Firmicutes,c:Clostridia,o:Christensenellales,f:Christensenellaceae,g:Christensenellaceae R-7 group,s:uncultured bacterium
 21 OTU_4257:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Alcaligenaceae,g:uncultured,s:uncultured bacterium
 22 OTU_1405:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:UCG-003,s:uncultured bacterium
 23 OTU_2107:k:Bacteria,p:Cyanobacteria,c:Cyanobacteriia,o:Cyanobacteriales,f:Chroococcidiopsaceae,g:Chroococcidiopsis SAG-2023,s:Chroococcidiopsis BB79.2
 24 OTU_3419:k:Bacteria,p:Actinobacteriota,c:Thermoleophilia,o:Gaiellales,f:Gaiellaceae,g:Gaiella,s:uncultured bacterium
 25 OTU_3309:k:Bacteria,p:Firmicutes,c:Clostridia,o:Monoglobales,f:Monoglobaceae,g:Monoglobus,s:Uncultured bacterium
 26 OTU_2138:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Rhizobiaceae
 27 OTU_2171:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Aeromonadales,f:Succinivibrionaceae,g:Succinivibrio,s:Uncultured Succinivibrio
 28 OTU_4104:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Clostridiaceae,g:Clostridium sensu stricto 1,s:uncultured bacterium
 29 OTU_4321:k:Bacteria,p:Patescibacteria,c:Saccharimonadia,o:Saccharimonadales, s:Uncultured bacterium
 30 OTU_2114:k:Bacteria,p:Deinococcota,c:Deinococci,o:Deinococcales,f:Deinococcaceae,g:Deinococcus
 31 OTU_1726:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pseudomonadales,f:Moraxellaceae,g:Psychrobacter
 32 OTU_2600:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Oxalobacteraceae,g:Massilia,s:Uncultured
 33 OTU_2629:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Sphingobacteriales,f:Sphingobacteriaceae,g:Solitalea
 34 OTU_2253:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Oxalobacteraceae,g:Undibacterium,s:Undibacterium macrobrachii
 35 OTU_4488:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Lachnospira,s:uncultured bacterium
 36 OTU_3979:k:Bacteria,s:Uncultured bacterium
 37 OTU_4114:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:NK4A214 group,s:uncultured bacterium
 38 OTU_3773:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Xanthobacteraceae
 39 OTU_893:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodobacterales,f:Rhodobacteraceae
 40 OTU_4434:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotella,s:uncultured bacterium
 41 OTU_3308:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Azospirillales,f:Azospirillaceae,g:Skermanella
 42 OTU_3273:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:Ruminococcus,s:uncultured bacterium
 43 OTU_2885:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Clostridiaceae,g:Candidatus Arthromitus
 44 OTU_1075:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Rhizobiaceae
 45 OTU_1343:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:Phoceas,Phoceas massiliensis
 46 OTU_2686:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodobacterales,f:Rhodobacteraceae,g:uncultured,s:uncultured bacterium
 47 OTU_4110:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:UCG-010
 48 OTU_4065:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides,s:uncultured bacterium

49 OTU_515:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Enterobacterales,f:Morganellaceae,g:Proteus
 50 OTU_3783:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotellaceae UCG-004,s:uncultured bacterium
 51 OTU_2087:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Lachnospira,s:Kineothrix
 52 OTU_2690:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidales RF16 group
 53 OTU_3171:k:Archaea,p:Halobacterota,c:Halobacteria,o:Halobacterales,f:Haloferacaceae,g:Haloquadratum
 54 OTU_2261:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodobacterales,f:Rhodobacteraceae,g:Rubellimicrobium,s:uncultured bacterium
 55 OTU_2760:k:Bacteria,p:Patensibacteria,c:Gracilibacteria,o:Absconditabacteriales SR1, s:Uncultured bacterium
 56 OTU_4013:k:Bacteria
 57 OTU_3266:k:Bacteria
 58 OTU_3168:k:Bacteria,p:Firmicutes,c:Bacilli,o:Mycoplasmatales,f:Mycoplasmataceae,g:Ureaplasma,s:uncultured bacterium
 59 OTU_1646:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 60 OTU_498:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Caulobacterales,f:Caulobacteraceae,g:Caulobacter
 61 OTU_1307:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodobacterales,f:Rhodobacteraceae,g:HIMB11
 62 OTU_1268:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae g:Lachnospira,s:uncultured bacterium
 63 OTU_3144:k:Bacteria,p:Patensibacteria,c:Dojkabacteria
 64 OTU_1096:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Propionibacteriales,f:Propionibacteriaceae,g:Cutibacterium
 65 OTU_1639:k:Bacteria,p:Patensibacteria,c:Saccharimonadia,o:Saccharimonadales
 66 OTU_2024:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:Sphingomonadaceae
 67 OTU_1348:k:Bacteria,p:Firmicutes,c:Clostridia
 68 OTU_3887:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Lachnospira,s:Lachnospiraceae bacterium S37-30-1
 69 OTU_2811:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales
 70 OTU_4503:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pseudomonadales,f:Moraxellaceae,g:Acinetobacter
 71 OTU_1251:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridia vadinBB60 group
 72 OTU_1566:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 73 OTU_2903:k:Bacteria,p:Acidobacteriota,c:Thermoanaerobaculia,o:Thermoanaerobaculales,f:Thermoanaerobaculaceae,g:Subgroup-1
 74 OTU_2356:k:Bacteria,p:Firmicutes,c:Clostridia
 75 OTU_1535:k:Bacteria,p:Acidobacteriota,c:Vicinamibacteria,o:Subgroup-17
 76 OTU_2325:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodobacterales,f:Rhodobacteraceae,g:Rhodobacter
 77 OTU_1386:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridia UCG-014
 78 OTU_1493:k:Bacteria,p:Firmicutes,c:Bacilli,o:Brevibacillales,f:Brevibacillaceae,g:Brevibacillus,s:bacterium YC-LK-LKJ16
 79 OTU_2349:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prolixibacteraceae,g:WCHB1-32

80 OTU_993:k:Bacteria,p:Actinobacteriota,c:Acidimicrobiia,o:IMCC26256
 81 OTU_1804:k:Bacteria,p:Firmicutes,c:Clostridia,o:Christensenellales,f:Christensenellaceae,g:Christensenellaceae-R-7-group
 82 OTU_3220:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Enterobacterales,f:Yersiniaceae,g:Rahnella,s:Rahnella aquatilis
 83 OTU_3468:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Enterobacterales
 84 OTU_1232:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Barnesiellaceae,g:Barnesiella
 85 OTU_946:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Flavobacteriales,f:Weeksellaceae,g:Empedobacter,s:Empedobacter brevis
 86 OTU_4096:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Caloramatoraceae
 87 OTU_1908:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Rhodocyclaceae,g:uncultured,s:uncultured bacterium
 88 OTU_1909:k:Bacteria,p:Firmicutes,c:Clostridia
 89 OTU_1312:k:Bacteria,p:Firmicutes,c:Negativicutes,o:Veillonellales-Selenomonadales,f:Selenomonadaceae,g:Selenomonas
 90 OTU_2859:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Hyphomicrobiaceae,g:Hyphomicrobium
 91 OTU_940:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:Paludicola,s:Paludicola psychrotolerans
 92 OTU_1100:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Porphyromonadaceae,g:Porphyromonas,s:Porphyromonas pogonae
 93 OTU_2060:k:Bacteria,p:Firmicutes,c:Limnochordia
 94 OTU_2899:k:Bacteria,p:Acidobacteriota,c:Blastocatellia,o:11-24
 95 OTU_2835:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Xanthomonadales,f:Xanthomonadaceae,g:Pseudoxanthomonas
 96 OTU_1992:k:Bacteria,p:Sumerlaeota,c:Sumerlaeia,o:Sumerlaeales,f:Sumerlaeaceae,g:Sumerlaea,s:uncultured bacterium
 97 OTU_3594:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Micromonosporales,f:Micromonosporaceae,g:Micromonospora
 98 OTU_3741:k:Bacteria,p:Firmicutes,c:Negativicutes,o:Veillonellales-Selenomonadales,f:Selenomonadaceae,g:Selenomonas
 99 OTU_2791:k:Bacteria,p:Bacteroidota,c:Ignavibacteria,o:Ignavibacteriales
 100 OTU_3552:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Propionibacteriales,f:Propionibacteriaceae,g:Luteococcus,s:Luteococcus japonicus
 101 OTU_2770:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Sphingobacteriales,f:Sphingobacteriaceae,g:Sphingobacterium,s:uncultured bacterium
 102 OTU_3711:k:Bacteria,p:Armatimonadota,c:Fimbriimonadia,o:Fimbriimonadales,f:Fimbriimonadaceae
 103 OTU_2974:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pseudomonadales,f:Moraxellaceae,g:Acinetobacter,s:Acinetobacter-92012
 104 OTU_1248:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Frankiales,f:Geodermatophilaceae,g:Geodermatophilus
 105 OTU_1122:k:Bacteria,p:Desulfobacterota,c:Desulfobulbia,o:Desulfobulbales,f:Desulfocapsaceae
 106 OTU_1261:k:Bacteria,p:Fusobacteriota,c:Fusobacteriia,o:Fusobacteriales,f:Leptotrichiaceae,g:Leptotrichia
 107 OTU_1270:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Butyricicoccaceae,g:UCG-009,s:uncultured bacterium
 108 OTU_1937:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:UCG-010
 109 OTU_1503:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae
 110 OTU_1516:k:Bacteria,p:Chloroflexi,c:Anaerolineae,o:Caldilineales,f:Caldilineaceae,g:uncultured,s:uncultured bacterium

111 OTU_2027:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Streptococcaceae,g:Streptococcus,s:Streptococcus parauberis
 112 OTU_3681:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotella,s:uncultured bacterium
 113 OTU_2818:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides
 114 OTU_690:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Marinifilaceae,g:Butyrivimonas
 115 OTU_1277:k:Bacteria,p:Actinobacteriota,c:Acidimicrobiia,o:Microtrichales,f:Ilumatobacteraceae,g:CL500-29 marine,s:uncultured bacterium
 116 OTU_3551:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:Colidextribacter,s:uncultured bacterium
 117 OTU_3556:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Dysgonomonadaceae,g:Dysgonomonas
 118 OTU_1370:k:Bacteria,p:Deinococcota,c:Deinococci,o:Thermates,f:Thermaceae,g:Meiothermus
 119 OTU_1565:k:Bacteria,p:Planctomycetota,c:Planctomycetes,o:Gemmatales,f:Gemmataceae,g:uncultured
 120 OTU_2122:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Cytophagales,f:Cyclobacteriaceae,g:Algoriphagus,s:uncultured bacterium
 121 OTU_3294:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Diplorickettsiales,f:Diplorickettsiaceae,g:Rickettsiella,s:Rickettsiella agriotidis
 122 OTU_2321:k:Bacteria,p:Chloroflexi,c:Anaerolineae,o:SBR1031
 123 OTU_913:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Carnobacteriaceae,g:Granulicatella
 124 OTU_3897:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Oxalobacteraceae,g:Massilia,s:Uncultured Oxalobacteraceae
 125 OTU_1483:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pasteurellales,f:Pasteurellaceae,g:Haemophilus,s:Haemophilus haemolyticus
 126 OTU_1422:k:Bacteria,p:Actinobacteriota,c:Acidimicrobiia,o:Actinomarinales,f:Actinomarinaceae,g:Candidatus Actinomarina,s:uncultured bacterium
 127 OTU_1657:k:Bacteria,p:Deinococcota,c:Deinococci,o:Deinococcales,f:Deinococcaceae,g:Deinococcus,s:Uncultured bacterium
 128 OTU_3998:k:Bacteria,p:Firmicutes,c:Bacilli,o:Bacillales,f:Bacillaceae
 129 OTU_3544:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Lachnospiraceae NK4A136 group
 130 OTU_2568:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides,s:Bacteroides paurosaccharolyticus-JCM-15092
 131 OTU_1502:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Corynebacteriales,f:Corynebacteriaceae,g:Corynebacterium,s:Corynebacterium pseudodiphtheriticum
 132 OTU_2732:k:Bacteria,p:Bacteroidota,c:Kapabacteria,o:Kapabacteriales
 133 OTU_851:k:Bacteria,p:Fusobacteriota,c:Fusobacteriia,o:Fusobacteriales,f:Leptotrichiaceae,g:Leptotrichia,s:uncultured Leptotrichia
 134 OTU_1326:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales
 135 OTU_3213:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Flavobacteriales,f:Flavobacteriaceae,g:Flavobacterium,s:Uncultured bacterium
 136 OTU_3690:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pseudomonadales,f:Moraxellaceae,g:Alkanindiges,s:uncultured bacterium
 137 OTU_2113:k:Bacteria,p:Firmicutes,c:Bacilli,o:Paenibacillales,f:Paenibacillaceae,g:Cohnella,s:Uncultured Cohnella
 138 OTU_3952:k:Bacteria,p:Firmicutes,c:Clostridia,o:Eubacteriales,f:Eubacteriaceae,g:Acetobacterium,s:Acetobacterium wieringae
 139 OTU_2657:k:Bacteria,p:Firmicutes,c:Thermoanaerobacteria,o:Thermoanaerobacterales,f:SRB2
 140 OTU_1715:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Propionibacteriales,f:Propionibacteriaceae
 141 OTU_1699:k:Bacteria,p:Actinobacteriota,c:Thermoleophilia,o:Solirubrobacterales,f:67-14

142 OTU_2277:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Lachnospiraceae-NK4A136-group
 143 OTU_3188:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pasteurellales,f:Pasteurellaceae,g:Haemophilus,s:Haemophilus parainfluenzae
 144 OTU_2522:k:Bacteria,p:Actinobacteriota,c:Thermoleophilia,o:Solirubrobacterales,f:67-14
 145 OTU_1643:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:Oscillospira,s:uncultured bacterium
 146 OTU_3592:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Comamonadaceae,g:Variovorax,s:Variovorax ginsengisoli
 147 OTU_1490:k:Bacteria,p:Acidobacteriota,c:Vicinamibacteria,o:Vicinamibacterales,f:uncultured
 148 OTU_3167:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:Sphingomonadaceae,g:Sphingomonas
 149 OTU_1866:k:Bacteria,p:Deinococcota,c:Deinococci,o:Deinococcales,f:Deinococcaceae,g:Deinococcus,s:Uncultured
 150 OTU_2310:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Gammaproteobacteria Incertae Sedis,f:Unknown-Family,g:Candidatus Berkiella,s:Uncultured
 151 OTU_3933:k:Bacteria,p:Deinococcota,c:Deinococci,o:Deinococcales,f:Deinococcaceae,g:Deinococcus,s:Deinococcus 3B1
 152 OTU_4238:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotella,s:uncultured bacterium
 153 OTU_2984:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus
 154 OTU_1520:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Micrococcales
 155 OTU_2501:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Oxalobacteraceae,g:Massilia,s:Uncultured
 156 OTU_1821:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Flavobacteriales,f:Weeksellaceae,g:Chryseobacterium
 157 OTU_1587:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:Sphingomonadaceae,g:Altererythrobacter,s:uncultured
 158 OTU_1010:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotellaceae-Ga6A1-group,s:uncultured
 159 OTU_3622:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Propionibacteriales,f:Nocardioidaceae,g:Aeromicrobium
 160 OTU_2473:k:Bacteria,p:Desulfobacterota,c:Desulfobulbia,o:Desulfobulbales,f:Desulfobulbaceae,g:Desulfobulbus,s:uncultured
 161 OTU_3567:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pasteurellales,f:Pasteurellaceae,s:Actinobacillus porcinus
 162 OTU_2270:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 163 OTU_2115:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Comamonadaceae
 164 OTU_2416:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus
 165 OTU_3598:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:uncultured,s:uncultured bacterium
 166 OTU_4306:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotellaceae-NK3B31-group,s:uncultured
 167 OTU_1702:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:Sphingomonadaceae
 168 OTU_2459:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Cytophagales,f:Spirosomaceae,g:Dyadobacter
 169 OTU_2843:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Chitinophagales,f:Saprospiraceae
 170 OTU_2806:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelatoclostridiaceae,g:Candidatus Stoquefichus,s:Longibaculum muris
 171 OTU_1015:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Sutterellaceae,g:Sutterella
 172 OTU_975:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Actinomycetales,f:Actinomycetaceae,g:F0332,s:uncultured bacterium

173 OTU_2173:k:Bacteria,p:Firmicutes,c:Bacilli,o:Bacillales,f:Planococcaceae,g:Sporosarcina
 174 OTU_650:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rickettsiales,f:Rickettsiaceae,g:Rickettsia,s:Rickettsia endosymbiont
 175 OTU_1429:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Beijerinckiaceae,g:uncultured
 176 OTU_1375:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Micrococcales,f:Microbacteriaceae,g:Agromyces,s:Agromyces iriomotensis
 177 OTU_836:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Neisseriaceae,g:Vitreoscilla,s:uncultured Vitreoscilla
 178 OTU_1142:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Lachnospiraceae NK4A136 group,s:uncultured
 179 OTU_1746:k:Bacteria,p:Verrucomicrobiota,c:Chlamydiae,o:Chlamydiales,f:Parachlamydiaceae,g:Neochlamydia
 180 OTU_838:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Clostridiaceae,g:Proteiniclasticum
 181 OTU_1432:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Lachnospira,s:uncultured bacterium
 182 OTU_1183:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:Incertae Sedis,s:Uncultured bacterium
 183 OTU_1878:k:Bacteria,p:Firmicutes,c:Clostridia,o:Eubacteriales,f:Anaerofustaceae,g:Anaerofustis,s:uncultured bacterium
 184 OTU_1344:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Sphingobacteriales,f:Sphingobacteriaceae,g:Sphingobacterium,s:Sphingobacterium shayense
 185 OTU_1714:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:OPB41
 186 OTU_1019:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Flavobacteriales,f:Flavobacteriaceae,g:Capnocytophaga
 187 OTU_2090:k:Bacteria,p:Bdellovibrionota,c:Bdellovibrionia,o:Bacteriovoracales,f:Bacteriovoraceae,g:Peredibacter,s:Uncultured bacterium
 188 OTU_1573:k:Bacteria,p:Firmicutes,c:Clostridia,o:Christensenellales,f:Christensenellaceae,g:uncultured,s:uncultured bacterium
 189 OTU_1910:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides
 190 OTU_1480:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Acetobacterales,f:Acetobacteraceae,g:uncultured,s:uncultured bacterium
 191 OTU_999:k:Bacteria,p:Actinobacteriota,c:Actinobacteria
 192 OTU_1634:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Rikenellaceae,g:Alistipes,s:uncultured
 193 OTU_1434:k:Bacteria,p:Verrucomicrobiota,c:Verrucomicrobiae,o:Verrucomicrobiales,f:Verrucomicrobiaceae,g:uncultured,s:uncultured verrucomicrobium
 194 OTU_1445:k:Bacteria,p:Firmicutes,c:Clostridia,o:Christensenellales,f:Christensenellaceae,g:uncultured,s:uncultured bacterium
 195 OTU_2988:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Propionibacteriales,f:Propionibacteriaceae
 196 OTU_2643:k:Bacteria,p:Campylobacterota,c:Campylobacteriia,o:Campylobacteriales,f:Campylobacteraceae,g:Campylobacter,s:Campylobacter gracilis
 197 OTU_4173:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Flavobacteriales,f:Flavobacteriaceae,g:Flavobacterium,s:Flavobacterium V22012
 198 OTU_4141:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Dysgonomonadaceae,g:Dysgonomonas
 199 OTU_3993:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Marinifilaceae,g:Butyricimonas
 200 OTU_1707:k:Bacteria,p:Deinococcota,c:Deinococci,o:Deinococcales,f:Deinococcaceae,g:Deinococcus,s:Deinococcus geothermalis
 201 OTU_3597:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Lachnospira,s:uncultured bacterium
 202 OTU_4290:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotellaceae UCG-003

Keynote: k: kingdom, p: phylum, c: class, o: order, f: family, g: genus, s: species

Supplementary Table S8. Unique 216 OTUs in stomach samples, contributing to variance in the overall sequences.

No.	OTUs descriptions
1	OTU_2550:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotella,s:uncultured bacterium
2	OTU_3023:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Pseudonocardiales,f:Pseudonocardiaceae
3	OTU_1667:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:OPB41
4	OTU_2365:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Frankiales,f:Nakamurellaceae,g:Nakamurella,s:Uncultured
5	OTU_905:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:UCG-010
6	OTU_1955:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Flavobacteriales,f:Flavobacteriaceae,g:Flavobacterium
7	OTU_4212:k:Bacteria,p:Chloroflexi,c:Chloroflexia,o:Chloroflexales,f:Roseiflexaceae
8	OTU_3201:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Tistrellales,f:Geminicoccaceae,g:Candidatus Alysiosphaera
9	OTU_2633:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Flavobacteriales,f:Flavobacteriaceae,g:Flavobacterium
10	OTU_1991:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Aeromonadales,f:Aeromonadaceae,g:Aeromonas
11	OTU_2936:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Chitinophagales,f:Chitinophagaceae
12	OTU_4305:k:Bacteria,p:Chloroflexi,c:JG30-KF-CM66
13	OTU_3565:k:Bacteria,p:Firmicutes,c:Clostridia,o:Monoglobales,f:Monoglobaceae,g:Monoglobus,s:uncultured bacterium
14	OTU_4050:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Ferrovibrionales,g:Taonella,s:Taonella mepensis
15	OTU_3097:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotella
16	OTU_1898:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Propionibacteriales,f:Nocardioidaceae,g:Nocardioides,s:uncultured bacterium
17	OTU_2298:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Uncultured bacterium
18	OTU_1970:k:Bacteria,p:Chloroflexi,c:Chloroflexia,o:Thermomicrobiales,f:JG30-KF-CM45
19	OTU_2521:k:Bacteria,p:Actinobacteriota,c:Thermoleophilia,o:Solirubrobacterales,f:67-14
20	OTU_3850:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodobacterales,f:Rhodobacteraceae
21	OTU_4047:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Corynebacteriales,f:Nocardiaceae,g:Rhodococcus,s:Rhodococcus corynebacterioides
22	OTU_1462:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Rikenellaceae,g:Alistipes
23	OTU_3564:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Uncultured bacterium
24	OTU_3628:k:Bacteria,p:Firmicutes,c:Bacilli,o:Thermoactinomycetales,f:Thermoactinomycetaceae,g:Kroppenstedtia
25	OTU_2982:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae

26 OTU_3573:k:Bacteria,p:Firmicutes,c:Bacilli
 27 OTU_3096:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Micrococcales
 28 OTU_1935:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Actinomycetales,f:Actinomycetaceae,g:Actinomyces,s:Actinomyces gerencseriae
 29 OTU_3140:k:Bacteria
 30 OTU_4115:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodospirillales,f:uncultured
 31 OTU_3893:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:[Eubacterium]-coprostanoligenes group
 32 OTU_1831:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:[Eubacterium]-eligens group
 33 OTU_4219:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:uncultured,s:uncultured bacterium
 34 OTU_3392:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 35 OTU_1849:k:Bacteria,p:Firmicutes,c:Negativicutes,o:Veillonellales-Selenomonadales,f:Sporomusaceae,g:Anaeromusa-Anaerococcus,s:uncultured bacterium
 36 OTU_2223:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Rikenellaceae
 37 OTU_892:k:Bacteria,p:Deinococcota,c:Deinococci,o:Deinococcales,f:Deinococcaceae,g:Deinococcus,s:Deinococcus J16OP19
 38 OTU_4042:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 39 OTU_1438:k:Bacteria,p:Firmicutes,c:Clostridia,o:Monoglobales,f:Monoglobaceae,g:Monoglobus,s:uncultured
 40 OTU_2535:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridia UCG-014
 41 OTU_1839:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Lachnospira
 42 OTU_1563:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Oribacterium,s:uncultured bacterium
 43 OTU_4008:k:Bacteria,p:Firmicutes,c:Clostridia,o:Christensenellales,f:Christensenellaceae,g:Christensenellaceae-R-7-group,s:uncultured bacterium
 44 OTU_2553:k:Bacteria,p:Chloroflexi,c:Dehalococcoidia,o:Dehalococcoidales,f:Dehalococcoidaceae,g:Dehalococcoides,s:Dehalococcoides mccartyi
 45 OTU_4000:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Alloprevotella,s:uncultured bacterium
 46 OTU_4421:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Micrococcales,f:Micrococcaceae
 47 OTU_1886:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Butyrivibrionaceae,g:UCG-009,s:uncultured bacterium
 48 OTU_3975:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus dextrinicus
 49 OTU_3327:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodospirillales,f:uncultured
 50 OTU_1396:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Clostridiaceae,g:Clostridium-sensu-stricto-7,s:uncultured
 51 OTU_3956:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:Anaerofilum
 52 OTU_2467:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 53 OTU_3963:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Eggerthellaceae
 54 OTU_4504:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Actinomycetales,f:Actinomycetaceae,g:Actinomyces
 55 OTU_2021:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales

56 OTU_3404:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 57 OTU_2931:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Cardiobacteriales,f:Cardiobacteriaceae,g:Cardiobacterium
 58 OTU_3844:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales
 59 OTU_4296:k:Bacteria
 60 OTU_3978:k:Bacteria,p:Cyanobacteria,c:Cyanobacteriia,o:Phormidesmiales,f:Phormidesmiaceae,g:Phormidesmis ANT.LACV5.1
 61 OTU_4310:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Clostridiaceae,g:Youngiibacter,s:Youngiibacter multivorans
 62 OTU_945:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Flavobacteriales,f:Flavobacteriaceae,g:Capnocytophaga
 63 OTU_4442:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 64 OTU_4402:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 65 OTU_2328:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Blautia,s:uncultured bacterium
 66 OTU_2248:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:UCG-010
 67 OTU_1700:k:Bacteria
 68 OTU_2586:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Clostridiaceae,g:Clostridium-sensu-stricto-8,s:Unculture
 69 OTU_1926:k:Bacteria,p:Desulfobacterota,c:Desulfobulbia,o:Desulfobulbales,f:Desulfobulbaceae,g:uncultured,s:uncultured bacterium
 70 OTU_1815:k:Bacteria,p:Cyanobacteria,c:Cyanobacteriia,o:Synechococcales,f:Cyanobiaceae,g:Cyanobium PCC-6307
 71 OTU_2186:k:Bacteria,p:Acidobacteriota,c:Vicinamibacteria,o:Vicinamibacteriales,f:Vicinamibacteraceae
 72 OTU_3812:k:Bacteria,p:Acidobacteriota
 73 OTU_1950:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales
 74 OTU_2519:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Eggerthellaceae
 75 OTU_2042:k:Bacteria,p:Nitrospirota,c:Thermodesulfovibrionia,o:uncultured
 76 OTU_3319:k:Bacteria
 77 OTU_2262:k:Bacteria,p:Chloroflexi,c:Anaerolineae,o:ADurb.Bin180
 78 OTU_4069:k:Bacteria
 79 OTU_1475:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Defluviitaleaceae,g:Defluviitaleaceae UCG-011,s:uncultured bacterium
 80 OTU_4404:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 81 OTU_4150:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 82 OTU_1427:k:Bacteria,p:Firmicutes,c:Clostridia
 83 OTU_4092:k:Bacteria,p:Firmicutes,c:Bacilli
 84 OTU_4093:k:Bacteria
 85 OTU_2547:k:Bacteria,p:Firmicutes,c:Clostridia,o:Christensenellales,f:Christensenellaceae,g:Christensenella,s:Christensenella minuta
 86 OTU_4007:k:Bacteria

87 OTU_1820:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,f:Anaerovoracaceae,g:[Eubacterium]-nodatum
 88 OTU_4509:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae
 89 OTU_4005:k:Bacteria
 90 OTU_2228:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 91 OTU_1282:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Clostridium innocuum
 92 OTU_3006:k:Bacteria,p:Actinobacteriota,c:Actinobacteria
 93 OTU_1524:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 94 OTU_3992:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 95 OTU_3466:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 96 OTU_2029:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelatoclostridiaceae
 97 OTU_3008:k:Bacteria,p:Firmicutes
 98 OTU_4010:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 99 OTU_2374:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 100 OTU_1860:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:NK4A214 group
 101 OTU_3824:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,f:Anaerovoracaceae
 102 OTU_3852:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 103 OTU_4480:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:uncultured,s:uncultured organism
 104 OTU_3073:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 105 OTU_3003:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales
 106 OTU_4454:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 107 OTU_4453:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 108 OTU_2998:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Howardella
 109 OTU_4015:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 110 OTU_2495:k:Bacteria
 111 OTU_3980:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Uncultured Lactobacillus
 112 OTU_2558:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ethanoligenenaceae,g:Acetanaerobacterium,s:uncultured bacterium
 113 OTU_1808:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Corynebacteriales,f:Corynebacteriaceae,g:Corynebacterium,s:Uncultured bacterium
 114 OTU_2575:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 115 OTU_3090:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Uncultured bacterium
 116 OTU_4514:k:Bacteria,p:Firmicutes
 117 OTU_3088:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,g:Hydrogenoanaerobacterium,s:uncultured Clostridium

118 OTU_3965:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 119 OTU_4289:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 120 OTU_675:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 121 OTU_4218:k:Bacteria
 122 OTU_4329:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Blautia,s:uncultured bacterium
 123 OTU_4274:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 124 OTU_3083:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 125 OTU_4324:k:Bacteria
 126 OTU_3077:k:Bacteria
 127 OTU_3078:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 128 OTU_2909:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides
 129 OTU_3767:k:Bacteria,p:Firmicutes,c:Clostridia,o:Eubacteriales,f:Anaerofustaceae,g:Anaerofustis
 130 OTU_4207:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Rikenellaceae,g:Rikenellaceae RC9 gut group
 131 OTU_2676:k:Bacteria,p:Firmicutes
 132 OTU_2714:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Streptococcaceae,g:Streptococcus,s:Uncultured Streptococcus
 133 OTU_3045:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus mucosae
 134 OTU_3969:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 135 OTU_3973:k:Bacteria,p:Firmicutes
 136 OTU_2979:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 137 OTU_4354:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:Papillibacter,s:uncultured bacterium
 138 OTU_2992:k:Bacteria,p:Firmicutes
 139 OTU_1509:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Lachnospiraceae UCG-001
 140 OTU_2593:k:Bacteria,p:Firmicutes,c:Bacilli
 141 OTU_3826:k:Bacteria,p:Firmicutes,c:Clostridia
 142 OTU_2967:k:Bacteria,p:Firmicutes
 143 OTU_4459:k:Bacteria,p:Firmicutes,c:Clostridia
 144 OTU_2978:k:Bacteria
 145 OTU_3818:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 146 OTU_4077:k:Bacteria,p:Firmicutes
 147 OTU_3808:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Eubacterium-xylanophilum,s:uncultured bacterium
 148 OTU_3782:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae

149 OTU_3024:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae
 150 OTU_3036:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 151 OTU_4111:k:Bacteria,p:Firmicutes
 152 OTU_3833:k:Bacteria
 153 OTU_716:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Micrococcales
 154 OTU_978:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Sphingobacteriales,f:env.OPS 17
 155 OTU_1691:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Enterobacterales,f:Morganellaceae,g:Morganella
 156 OTU_625:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Caulobacterales,f:Caulobacteraceae,g:Brevundimonas
 157 OTU_1738:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:SC-I-84
 158 OTU_1555:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pasteurellales,f:Pasteurellaceae,g:Aggregatibacter,s:Aggregatibacter segnis
 159 OTU_1126:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Carnobacteriaceae
 160 OTU_1896:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,g:Sporanaerobacter,s:Sporanaerobacter acetigenes
 161 OTU_2656:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Neisseriaceae,g:Neisseria,s:Neisseria zaloph
 162 OTU_1466:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Comamonadaceae,g:Methylibium,s:Methylibium petroleiphilum
 163 OTU_3835:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Corynebacteriales,f:Corynebacteriaceae,g:Corynebacterium,s:Uncultured bacterium
 164 OTU_1759:k:Bacteria,p:Desulfobacterota,c:Desulfuromonadia
 165 OTU_2584:k:Bacteria,p:Deinococcota,c:Deinococci,o:Deinococcales,f:Deinococcaceae,g:Deinococcus
 166 OTU_3719:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 167 OTU_1032:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:UCG-010
 168 OTU_2112:k:Bacteria,p:Firmicutes,c:Clostridia,o:Monoglobales,f:Monoglobaceae,g:Monoglobus,s:Uncultured
 169 OTU_1118:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:uncultured,s:uncultured bacterium
 170 OTU_3131:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:uncultured,s:uncultured bacterium
 171 OTU_1832:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridia vadinBB60 group
 172 OTU_3703:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 173 OTU_1455:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:uncultured,s:uncultured bacterium
 174 OTU_3673:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Micrococcales,f:Dermatophilaceae,g:uncultured,s:uncultured actinobacterium
 175 OTU_2479:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,g:Tissierella,s:uncultured bacterium
 176 OTU_3105:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Butyricicoccaceae,g:UCG-009,s:uncultured bacterium
 177 OTU_4080:k:Bacteria,p:Actinobacteriota,c:Thermoleophilia,o:Solirubrobacterales,f:Solirubrobacteraceae,g:Patulibacter
 178 OTU_3114:k:Bacteria,p:Cyanobacteria,c:Cyanobacteriia,o:Cyanobacteriales,f:Nostocaceae,g:uncultured,s:uncultured cyanobacterium
 179 OTU_1630:k:Bacteria,p:Verrucomicrobiota,c:Lentisphaeria,o:Victivallales,f:Victivallaceae

180 OTU_1911:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:Incertae Sedis,s:Uncultured bacterium
 181 OTU_3714:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Streptococcaceae,g:Lactococcus
 182 OTU_2121:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridia vadinBB60 group
 183 OTU_4233:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 184 OTU_2507:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Xanthobacteraceae
 185 OTU_4176:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides
 186 OTU_3579:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Eisenbergiella,s:uncultured
 187 OTU_3580:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Blautia,s:uncultured
 188 OTU_1751:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides
 189 OTU_3881:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:Sphingomonadaceae
 190 OTU_4157:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 191 OTU_2743:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales
 192 OTU_2303:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:uncultured bacterium
 193 OTU_3676:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Propionibacteriales,f:Nocardiodaceae,g:Nocardioideis,s:uncultured
 194 OTU_3675:k:Bacteria,p:Chloroflexi,c:Chloroflexia,o:Thermomicrobiales,f:JG30-KF-CM45
 195 OTU_2289:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:uncultured,s:uncultured bacterium
 196 OTU_3193:k:Bacteria,p:Firmicutes,c:Clostridia,o:Christensenellales,f:Christensenellaceae,g:Christensenellaceae-R-7-group
 197 OTU_3806:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae
 198 OTU_3702:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:uncultured,s:uncultured bacterium
 199 OTU_2078:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Leuconostocaceae,g:Weissella,s:Weissella minor
 200 OTU_2964:k:Bacteria,p:Firmicutes,c:Bacilli,o:Paenibacillales,f:Paenibacillaceae,g:Paenibacillus,s:Uncultured bacterium
 201 OTU_3439:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Run-SP154
 202 OTU_4198:k:Bacteria,p:Firmicutes
 203 OTU_4295:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Burkholderiaceae,g:uncultured
 204 OTU_2513:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,f:Anaerovoracaceae,g:Eubacterium,s:Eubacterium pyruvativorans
 205 OTU_3428:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,g:Tepidimicrobium,s:uncultured bacterium
 206 OTU_1403:k:Bacteria,p:Firmicutes,c:Bacilli,o:RF39
 207 OTU_1810:k:Bacteria,p:Chloroflexi,c:Anaerolineae,o:SBR1031
 208 OTU_2510:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:Intestinimonas,s:Intestinimonas timonensis
 209 OTU_2972:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:uncultured,s:uncultured bacterium
 210 OTU_3798:k:Bacteria,p:Firmicutes

211	OTU_3801:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Tyzzerella
212	OTU_3827:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Uncultured
213	OTU_3497:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Ligilactobacillus murinus
214	OTU_3076:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
215	OTU_4055:k:Bacteria,p:Acidobacteriota,c:Blastocatellia,o:11-24
216	OTU_3049:k:Bacteria,p:Deinococcota,c:Deinococci,o:Deinococcales,f:Deinococcaceae,g:Deinococcus

Supplementary Table S9. Unique 48 OTUs in gut samples, contributing to variance in the overall sequences.

No.	OTUs descriptions
1	OTU_2233:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Orbales,f:Orbaceae,g:Frischella,s:Frischella perrara
2	OTU_3865:k:Bacteria,p:Campilobacterota,c:Campylobacterota,o:Campylobacterales,f:Helicobacteraceae,g:Helicobacter,s:Uncultured
3	OTU_2360:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Acetobacteriales,f:Acetobacteraceae,g:Bombella
4	OTU_220:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Burkholderiaceae,g:Cupriavidus
5	OTU_2185:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus apis
6	OTU_3038:k:Bacteria,p:Firmicutes
7	OTU_4118:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Apilactobacillus kunkeei
8	OTU_1549:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Orbales,f:Orbaceae,g:Gilliamella,s:gamma proteobacterium
9	OTU_3977:k:Bacteria,p:Firmicutes,c:Bacilli
10	OTU_2954:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales
11	OTU_770:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Oxalobacteraceae,g:Herbaspirillum
12	OTU_4193:k:Bacteria,p:Patescibacteria,c:Saccharimonadia,o:Saccharimonadales,f:Saccharimonadaceae,g:TM7a,s:uncultured
13	OTU_3586:k:Bacteria,p:Firmicutes,c:Bacilli,o:RF39
14	OTU_4025:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Neisseriaceae,g:Snodgrassella,s:Snodgrassella alvi
15	OTU_4059:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:Faecalibacterium,s:uncultured
16	OTU_2624:k:Bacteria
17	OTU_4351:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:[Eubacterium]-coprostanoligenes group
18	OTU_3186:k:Bacteria
19	OTU_2480:k:Bacteria
20	OTU_4194:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Turicibacter,s:Uncultured bacterium
21	OTU_4327:k:Bacteria
22	OTU_4241:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,f:Peptostreptococcaceae,g:Romboutsia,s:uncultured
23	OTU_4319:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Actinomycetales,f:Actinomycetaceae,g:Actinomyces
24	OTU_3807:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales
25	OTU_1519:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Chitinophagales,f:Chitinophagaceae

26	OTU_3793:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Flavobacteriales,f:Weeksellaceae,g:Apibacter,s:uncultured Bacteroidetes
27	OTU_3701:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Burkholderiaceae,g:Ralstonia,s:Ralstonia solanacearum
28	OTU_2805:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Ileibacterium,s:Ileibacterium valens
29	OTU_1972:k:Bacteria,p:Verrucomicrobiota,c:Verrucomicrobiae,o:Verrucomicrobiales,f:Akkermansiaceae,g:Akkermansia,s:uncultured
30	OTU_1773:k:Bacteria,p:Chloroflexi,c:Anaerolineae,o:Caldilineales,f:Caldilineaceae,g:uncultured,s:uncultured bacterium
31	OTU_1206:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridia_vadinBB60_group
32	OTU_3734:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus mucosae
33	OTU_1942:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Chitinophagales,f:Chitinophagaceae
34	OTU_1353:k:Bacteria,p:Patescibacteria,c:Saccharimonadia,o:Saccharimonadales
35	OTU_4288:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Blautia,s:uncultured bacterium
36	OTU_4371:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Dorea,s:uncultured bacterium
37	OTU_2850:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodobacterales,f:Rhodobacteraceae,g:Defluviimonas
38	OTU_3660:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Allobaculum
39	OTU_3643:k:Bacteria
40	OTU_3017:k:Bacteria,p:Firmicutes
41	OTU_3263:k:Bacteria
42	OTU_3704:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Holdemanella,s:uncultured
43	OTU_2962:k:Bacteria,p:Firmicutes,c:Bacilli
44	OTU_4031:k:Bacteria
45	OTU_3761:k:Bacteria,p:Firmicutes,c:Clostridia
46	OTU_3386:k:Bacteria,p:Campilobacterota,c:Campylobacteria,o:Campylobacteriales,f:Helicobacteraceae,g:Helicobacter,s:Helicobacter muridarum
47	OTU_2188:k:Bacteria,p:Acidobacteriota,c:Acidobacteriae,o:Bryobacteriales,f:Bryobacteraceae,g:Bryobacter,s:uncultured
48	OTU_4513:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:Sphingomonadaceae,g:Sphingobium

Supplementary Table S10. Shared OTUs among lung, stomach and gut groups

No.	Shared OUT descriptions
1	OTU_23:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pasteurellales,f:Pasteurellaceae,g:Rodentibacter,s:Pasteurellaceae bacterium
2	OTU_14:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Porphyromonadaceae,g:Porphyromonas,s:Uncultured bacterium
3	OTU_80:k:Bacteria,p:Firmicutes,c:Negativicutes,o:Veillonellales-Selenomonadales,f:Veillonellaceae,g:Veillonella,s:Uncultured Veillonellaceae
4	OTU_26:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Actinomycetales,f:Actinomycetaceae,g:Actinomyces
5	OTU_20:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Micrococcales,f:Micrococcaceae,g:Rothia,s:Uncultured
6	OTU_78:k:Bacteria,p:Fusobacteriota,c:Fusobacteriia,o:Fusobacteriales,f:Fusobacteriaceae,g:Fusobacterium

7 OTU_35:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Alcaligenaceae
 8 OTU_114:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Streptococcaceae,g:Streptococcus,s:Uncultured bacterium
 9 OTU_1859:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pasteurellales,f:Pasteurellaceae,g:Rodentibacter,s:Pasteurellaceae bacterium
 10 OTU_100:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pasteurellales,f:Pasteurellaceae,g:Rodentibacter,s:Pasteurellaceae bacterium
 11 OTU_116:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Xanthobacteraceae,g:Bradyrhizobium
 12 OTU_76:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Streptococcaceae,g:Streptococcus,s:Streptococcus azizii
 13 OTU_65:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides
 14 OTU_12:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Enterobacteriales,f:Enterobacteriaceae,g:Escherichia-Shigella, s:E. coli
 15 OTU_215:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 16 OTU_206:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Corynebacteriales,f:Corynebacteriaceae,g:Corynebacterium,s:Corynebacterium
 pseudotuberculosis
 17 OTU_106:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Burkholderiaceae,g:Ralstonia,s:Ralstonia mannitolilytica
 18 OTU_289:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales
 19 OTU_477:k:Bacteria,p:Actinobacteriota,c:Actinobacteria
 20 OTU_10:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus murinus
 21 OTU_237:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,f:Peptostreptococcaceae,g:Peptostreptococcus,s:Peptostreptococcus sp
 22 OTU_754:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Dielma,s:uncultured bacterium
 23 OTU_72:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Aerococcaceae
 24 OTU_141:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Corynebacteriales,f:Corynebacteriaceae,g:Corynebacterium,s:Corynebacterium zhongnanshanii
 25 OTU_44:k:Bacteria,p:Firmicutes,c:Bacilli,o:Staphylococcales,f:Staphylococcaceae,g:Staphylococcus,s:Staphylococcus fleurettii
 26 OTU_2913:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pasteurellales,f:Pasteurellaceae,g:Rodentibacter,s:Pasteurellaceae bacterium
 27 OTU_3053:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pseudomonadales,f:Moraxellaceae,g:Acinetobacter,s:Acinetobacter lwoffii
 28 OTU_315:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:[Eubacterium]-fissicatena group
 29 OTU_39:k:Bacteria,p:Firmicutes,c:Bacilli,o:Staphylococcales,f:Gemellaceae,g:Gemella,s:uncultured bacterium
 30 OTU_558:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Xanthomonadales,f:Xanthomonadaceae,g:Stenotrophomonas,s:Stenotrophomonas
 maltophilia
 31 OTU_97:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Enterococcaceae,g:Enterococcus,s:Enterococcus faecium
 32 OTU_241:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales
 33 OTU_645:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Actinomycetales,f:Actinomycetaceae,g:Actinomyces,s:Uncultured
 34 OTU_15:k:Bacteria,p:Firmicutes,c:Bacilli,o:Staphylococcales,f:Staphylococcaceae,g:Macrococcus,s:Macrococcus goetzii
 35 OTU_124:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 36 OTU_92:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Streptococcaceae,g:Lactococcus,s:Lactococcus cremoris

37 OTU_380:k:Bacteria,p:Fusobacteriota,c:Fusobacteriia,o:Fusobacteriales,f:Fusobacteriaceae,g:Fusobacterium
 38 OTU_3:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Alcaligenaceae,g:Bordetella,s:Bordetella hinzii
 39 OTU_516:k:Bacteria,p:Patescibacteria,c:Saccharimonadia,o:Saccharimonadales
 40 OTU_91:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:Sphingomonadaceae,g:Sphingomonas,s:Sphingomonas kyeonggiensis
 41 OTU_13:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Streptococcaceae,g:Streptococcus,s:Streptococcus macedonicus
 42 OTU_614:k:Bacteria,p:Firmicutes,c:Bacilli,o:Mycoplasmatales,f:Mycoplasmataceae,g:Mycoplasma,s:uncultured
 43 OTU_41:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pseudomonadales,f:Moraxellaceae,g:Acinetobacter
 44 OTU_56:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pasteurellales,f:Pasteurellaceae
 45 OTU_1209:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Rhizobiaceae,g:Bartonella,s:Uncultured
 46 OTU_556:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 47 OTU_133:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Micrococcales,f:Dermabacteraceae,g:Brachybacterium,s:Uncultured
 48 OTU_1011:k:Bacteria,p:Firmicutes,c:Bacilli,o:Bacillales,f:Bacillaceae,g:Bacillus,s:Bacillus altitudinis
 49 OTU_801:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Vagococcaceae,g:Vagococcus,s:Vagococcus fluvialis
 50 OTU_258:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pseudomonadales,f:Pseudomonadaceae,g:Pseudomonas,s:Pseudomonas mendocina
 51 OTU_502:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides,s:Bacteroides thetaiotaomicron
 52 OTU_1029:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae
 53 OTU_112:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Micrococcales,f:Intrasporangiaceae,g:Janibacter,s:Janibacter melonis
 54 OTU_805:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodobacterales,f:Rhodobacteraceae,g:Gemmobacter
 55 OTU_21:k:Bacteria,p:Fusobacteriota,c:Fusobacteriia,o:Fusobacteriales,f:Fusobacteriaceae,g:Fusobacterium
 56 OTU_2324:k:Bacteria,p:Firmicutes,c:Bacilli,o:Bacillales,f:Bacillaceae,g:Bacillus,s:Peribacillus frigoritolerans
 57 OTU_243:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pseudomonadales,f:Moraxellaceae,g:Enhydrobacter
 58 OTU_1:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus johnsonii
 59 OTU_22:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotella,s:Uncultured Prevotella
 60 OTU_98:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:Subdoligranulum
 61 OTU_3520:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Cytophagales,f:Microscillaceae,g:uncultured,s:uncultured bacterium
 62 OTU_28:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Tyzzerella,s:uncultured bacterium
 63 OTU_58:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:[Ruminococcus]-gauvreauii group
 64 OTU_54:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Enterobacterales,f:Enterobacteriaceae,g:Enterobacter,s:Enterobacter roggkampii
 65 OTU_1149:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus acidophilus
 66 OTU_334:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelatoclostridiaceae,g:Coprobaillus,s:Coprobaillus cateniformis
 67 OTU_373:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:NK4A214 group

68 OTU_33:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:[Ruminococcus]-gnavus group
 69 OTU_4:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Limosilactobacillus reuteri
 70 OTU_9:k:Bacteria,p:Campilobacterota,c:Campylobacteria,o:Campylobacterales,f:Helicobacteraceae,g:Helicobacter,s:Helicobacter apodemus
 71 OTU_16:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Atopobiaceae,g:Olsenella,s:uncultured
 72 OTU_7:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Bifidobacteriales,f:Bifidobacteriaceae,g:Bifidobacterium,s:Bifidobacterium faecale
 73 OTU_60:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Allobaculum,s:uncultured bacterium
 74 OTU_17:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Limosilactobacillus mucosae
 75 OTU_40:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Bifidobacteriales,f:Bifidobacteriaceae,g:Bifidobacterium,s:Bifidobacterium longum
 76 OTU_61:k:Bacteria,p:Firmicutes,c:Negativicutes,o:Veillonellales-Selenomonadales,f:Veillonellaceae,g:Megasphaera
 77 OTU_24:k:Bacteria,p:Deferribacterota,c:Deferribacteres,o:Deferribacterales,f:Deferribacteraceae,g:Mucispirillum
 78 OTU_47:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus ruminis
 79 OTU_18:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Bifidobacteriales,f:Bifidobacteriaceae,g:Bifidobacterium,s:Bifidobacterium pseudolongum
 80 OTU_506:k:Bacteria,p:Firmicutes,c:Negativicutes,o:Veillonellales-Selenomonadales,f:Veillonellaceae,g:Dialister,s:Dialister succinatiphilus
 81 OTU_34:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Allobaculum,s:Uncultured bacterium
 82 OTU_616:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus jensenii
 83 OTU_31:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,f:Peptostreptococcaceae,g:Romboutsia
 84 OTU_45:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Sutterellaceae,g:Parasutterella
 85 OTU_135:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Aeromonadales,f:Succinivibrionaceae,g:Anaerobiospirillum
 86 OTU_48:k:Bacteria,p:Spirochaetota,c:Spirochaetia,o:Spirochaetales,f:Spirochaetaceae,g:Treponema,s:Uncultured
 87 OTU_8:k:Bacteria,p:Campilobacterota,c:Campylobacteria,o:Campylobacterales,f:Helicobacteraceae,g:Helicobacter,s:Helicobacter muridarum
 88 OTU_46:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Alloprevotella,s:uncultured bacterium
 89 OTU_6:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Turicibacter,s:Turicibacter LA61
 90 OTU_2466:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelatoclostridiaceae,g:Catenibacterium
 91 OTU_52:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Coriobacteriaceae,g:Collinsella,s:uncultured_bacterium
 92 OTU_2617:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 93 OTU_119:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Atopobiaceae
 94 OTU_5:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus intestinalis
 95 OTU_2552:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 96 OTU_121:k:Bacteria,p:Firmicutes,c:Negativicutes,o:Acidaminococcales,f:Acidaminococcaceae,g:Phascolarctobacterium,s:uncultured
 97 OTU_64:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Clostridiaceae,g:Clostridium-sensu-stricto-1,s:Clostridium perfringens
 98 OTU_73:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides

99 OTU_79:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Micrococcales,f:Micrococcaceae,g:Glutamicibacter
 100 OTU_676:k:Bacteria,p:Campilobacterota,c:Campylobacteria,o:Campylobacterales,f:Helicobacteraceae,g:Helicobacter,s:Helicobacter japonicus
 101 OTU_150:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:uncultured,s:uncultured bacterium
 102 OTU_623:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Micrococcales,f:Micrococcaceae,g:Kocuria,s:Kocuria palustris
 103 OTU_77:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:uncultured,s:uncultured bacterium
 104 OTU_30:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Clostridiaceae,g:Clostridium-sensu-stricto-1,s:Clostridium disporicum
 105 OTU_313:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Turicibacter,s:Turicibacter sanguinis
 106 OTU_283:k:Bacteria,p:Spirochaetota,c:Brachyspirae,o:Brachyspirales,f:Brachyspiraceae,g:Brachyspira
 107 OTU_168:k:Bacteria,p:Desulfobacterota,c:Desulfovibrionia,o:Desulfovibrionales,f:Desulfovibrionaceae,g:uncultured
 108 OTU_75:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 109 OTU_2897:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotella,s:uncultured
 110 OTU_36:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Blautia,s:uncultured bacterium
 111 OTU_37:k:Bacteria,p:Campilobacterota,c:Campylobacteria,o:Campylobacterales,f:Helicobacteraceae,g:Helicobacter,s:Helicobacter cholecystus
 112 OTU_42:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Streptococcaceae,g:Streptococcus,s:Streptococcus hyointestinalis
 113 OTU_104:k:Bacteria,p:Desulfobacterota,c:Desulfovibrionia,o:Desulfovibrionales,f:Desulfovibrionaceae,g:Desulfovibrio,s:uncultured
 114 OTU_86:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Roseburia,s:Uncultured bacterium
 115 OTU_695:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,f:Anaerovoracaceae,g:Family-XIII-AD3011 group,s:uncultured
 116 OTU_222:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Aeromonadales,f:Succinivibrionaceae,g:Succinivibrio,s:uncultured
 117 OTU_518:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Clostridiaceae,g:Sarcina
 118 OTU_2083:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Blautia,s:Uncultured bacterium
 119 OTU_254:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Coriobacteriaceae,g:Collinsella,s:Collinsella BA40
 120 OTU_29:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Blautia,s:Blautia pseudococcoides
 121 OTU_772:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Corynebacteriales,f:Corynebacteriaceae,g:Corynebacterium,s:Uncultured Corynebacterium
 122 OTU_126:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 123 OTU_162:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:Faecalibacterium,s:uncultured bacterium
 124 OTU_196:k:Bacteria,p:Firmicutes,c:Negativicutes,o:Veillonellales-Selenomonadales,f:Veillonellaceae,g:Megasphaera
 125 OTU_90:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides,s:uncultured bacterium
 126 OTU_143:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Marvinbryantia,s:uncultured bacterium
 127 OTU_50:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pasteurellales,f:Pasteurellaceae,g:Actinobacillus
 128 OTU_253:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Tannerellaceae,g:Parabacteroides
 129 OTU_365:k:Bacteria,p:Firmicutes,c:Negativicutes,o:Veillonellales-Selenomonadales,f:Selenomonadaceae,g:Mitsuokella

130 OTU_740:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:uncultured
 131 OTU_88:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Allobaculum
 132 OTU_179:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Sutterellaceae,g:Sutterella
 133 OTU_3478:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Blautia,s:uncultured bacterium
 134 OTU_371:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:uncultured
 135 OTU_3461:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:uncultured
 136 OTU_343:k:Bacteria,p:Deferribacterota,c:Deferribacteres,o:Deferribacterales,f:Deferribacteraceae,g:Mucispirillum
 137 OTU_3964:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Micrococcales,f:Micrococcaceae,g:Neomicrococcus,s:Micrococcus lylae
 138 OTU_1644:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 139 OTU_87:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Paracaedibacterales,f:Paracaedibacteraceae,g:uncultured,s:uncultured
 140 OTU_53:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Dorea
 141 OTU_113:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Frisingicoccus,s:Frisingicoccus caecimuris
 142 OTU_453:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhodobacterales,f:Rhodobacteraceae,g:Paracoccus
 143 OTU_194:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Atopobiaceae,g:Libanicoccus,s:uncultured bacterium
 144 OTU_390:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 145 OTU_137:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pasteurellales,f:Pasteurellaceae,g:Actinobacillus,s:Actinobacillus porcitosillarum
 146 OTU_613:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Bifidobacteriales,f:Bifidobacteriaceae,g:Bifidobacterium,s:Bifidobacterium bifidum
 147 OTU_57:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides,s:uncultured bacterium
 148 OTU_202:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:uncultured
 149 OTU_261:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides
 150 OTU_642:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Blautia,s:uncultured
 151 OTU_2551:k:Bacteria,p:Firmicutes
 152 OTU_122:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Butyricicoccaceae,g:Butyricicoccus
 153 OTU_808:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Lachnoclostridium,s:Uncultured bacterium
 154 OTU_482:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Rhizobiaceae,g:Allorhizobium-Neorhizobium-Pararhizobium Rhizobium
 155 OTU_400:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 156 OTU_74:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,f:Peptostreptococcaceae,g:Peptoclostridium,s:Peptacetobacter hiranonis
 157 OTU_1147:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:[Eubacterium]_coprostanoligenes-group
 158 OTU_279:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,f:Anaerovoracaceae,g:[Eubacterium]-nodatum group
 159 OTU_208:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:Fournierella
 160 OTU_107:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Blautia,s:uncultured_bacterium

161 OTU_263:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 162 OTU_156:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Coriobacteriaceae,g:Collinsella,s:Collinsella intestinalis
 163 OTU_668:k:Bacteria,p:Desulfobacterota,c:Desulfovibrionia,o:Desulfovibrionales,f:Desulfovibrionaceae,g:Desulfovibrio,s:Uncultured
 164 OTU_765:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Atopobiaceae,g:Olsenella
 165 OTU_4315:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Uncultured bacterium
 166 OTU_3197:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Uncultured bacterium
 167 OTU_70:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotellaceae NK3B31 group,s:uncultured
 168 OTU_4237:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:uncultured
 169 OTU_118:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Fusicatenibacter
 170 OTU_569:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides
 171 OTU_440:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Tyzzerella
 172 OTU_227:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:Anaerotruncus
 173 OTU_84:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 174 OTU_280:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides
 175 OTU_758:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:Paludicola,s:uncultured
 176 OTU_672:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 177 OTU_2598:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:uncultured Clostridiales
 178 OTU_499:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 179 OTU_109:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:UCG-005,s:uncultured bacterium
 180 OTU_159:k:Bacteria,p:Firmicutes,c:Negativicutes,o:Veillonellales-Selenomonadales,f:Selenomonadaceae,g:Megamonas
 181 OTU_321:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Lachnospira,s:uncultured organism
 182 OTU_589:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Allobaculum
 183 OTU_355:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Oribacterium,s:uncultured
 184 OTU_110:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Roseburia,s:uncultured
 185 OTU_4501:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Uncultured Lactobacillus
 186 OTU_448:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Faecalibaculum,s:uncultured
 187 OTU_312:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 188 OTU_2565:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:[Ruminococcus]-torques group,s:uncultured
 189 OTU_3029:k:Bacteria
 190 OTU_419:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides
 191 OTU_766:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae

192 OTU_82:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,f:Peptostreptococcaceae
 193 OTU_171:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Ruminococcus-torques group
 194 OTU_342:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Holdemanella,s:uncultured
 195 OTU_458:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Marinifilaceae,g:Butyricimonas,s:Butyricimonas Marseille-P2440
 196 OTU_3781:k:Bacteria,p:Firmicutes,c:Bacilli
 197 OTU_166:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:uncultured,s:uncultured bacterium
 198 OTU_154:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Rikenellaceae,g:Alistipes,s:uncultured bacterium
 199 OTU_737:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:UCG-002,s:uncultured bacterium
 200 OTU_89:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:Ruminococcus
 201 OTU_3816:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 202 OTU_169:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:Negativibacillus
 203 OTU_19:k:Bacteria,p:Firmicutes,c:Bacilli,o:Mycoplasmatales,f:Mycoplasmataceae,g:Mycoplasma,s:Metamycoplasma sualvi
 204 OTU_49:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Leuconostocaceae,g:Weissella,s:Weissella hellenica
 205 OTU_281:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelatoclostridiaceae,g:Catenibacterium,s:uncultured bacterium
 206 OTU_181:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Carnobacteriaceae,g:Trichococcus
 207 OTU_347:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Atopobiaceae,g:Olsenella
 208 OTU_344:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 209 OTU_607:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Tannerellaceae,g:Parabacteroides
 210 OTU_2876:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Clostridiaceae,g:Clostridium sensu stricto-1,s:Clostridium paraputrificum
 211 OTU_11:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Burkholderiaceae,g:Ralstonia,s:Ralstonia insidiosa
 212 OTU_643:k:Bacteria,p:Firmicutes,c:Bacilli,o:Bacillales,f:Bacillaceae,g:Bacillus,s:Bacillus licheniformis
 213 OTU_3241:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Uncultured bacterium
 214 OTU_553:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Rhizobiaceae,g:Mesorhizobium
 215 OTU_414:k:Bacteria,p:Firmicutes,c:Negativicutes,o:Veillonellales-Selenomonadales,f:Veillonellaceae,g:Dialister,s:uncultured bacterium
 216 OTU_2970:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Coriobacteriaceae,g:Collinsella,s:uncultured
 217 OTU_101:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:[Eubacterium]-coprostanoligenes group
 218 OTU_2822:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 219 OTU_447:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Dubosiella,s:Dubosiella newyorkensis
 220 OTU_147:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Streptococcaceae,g:Streptococcus,s:Streptococcus caballi
 221 OTU_161:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Porphyromonadaceae,g:Porphyromonas,s:uncultured
 222 OTU_1965:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:[Eubacterium]-coprostanoligenes group

223 OTU_120:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Sellimonas,s:uncultured bacterium
 224 OTU_348:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelatoclostridiaceae,g:Erysipelatoclostridium,s:Thomasclostridium ramosa
 225 OTU_273:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotellaceae UCG-001,s:uncultured
 226 OTU_4398:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,f:Peptostreptococcaceae,g:Intestinibacter,s:Clostridiaceae-DJF-VP56
 227 OTU_62:k:Bacteria,p:Firmicutes,c:Bacilli,o:Staphylococcales,f:Staphylococcaceae,g:Staphylococcus,s:Staphylococcus equorum
 228 OTU_3005:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 229 OTU_27:k:Bacteria,p:Spirochaetota,c:Spirochaetia,o:Spirochaetales,f:Spirochaetaceae,g:Treponema,s:uncultured bacterium
 230 OTU_269:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Eggerthellaceae,g:Senegalimassilia,s:Uncultured
 231 OTU_1269:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:uncultured,s:uncultured bacterium
 232 OTU_148:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Micrococcales,f:Micrococcaceae,g:Rothia,s:Uncultured
 233 OTU_299:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Epulopiscium
 234 OTU_205:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Dorea
 235 OTU_433:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Butyricicoccaceae,g:Butyricicoccus,s:uncultured bacterium
 236 OTU_357:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:Oscillospira,s:uncultured bacterium
 237 OTU_800:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,f:Anaerovoracaceae,g:Family-XIII-AD3011
 238 OTU_173:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Rikenellaceae,g:Alistipes,s:uncultured Bacteroidales
 239 OTU_1783:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides
 240 OTU_235:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Tannerellaceae,g:Parabacteroides,s:Parabacteroides sp.
 241 OTU_298:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:NK4A214 group,s:uncultured
 242 OTU_117:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Alloprevotella,s:uncultured
 243 OTU_823:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 244 OTU_473:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:UCG-005
 245 OTU_549:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 246 OTU_183:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Micrococcales,f:Dermacoccaceae,g:Dermacoccus
 247 OTU_1175:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:UCG-005,s:uncultured bacterium
 248 OTU_3984:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Uncultured bacterium
 249 OTU_322:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Anaerostipes
 250 OTU_38:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pseudomonadales,f:Pseudomonadaceae,g:Pseudomonas,s:Pseudomonas putida
 251 OTU_304:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Solobacterium,s:uncultured
 252 OTU_3486:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Blautia,s:uncultured
 253 OTU_2511:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Corynebacteriales,f:Nocardiaceae,g:Gordonia,s:Gordonia malaquae

254 OTU_3970:k:Bacteria
 255 OTU_1354:k:Bacteria,p:Firmicutes,c:Bacilli
 256 OTU_520:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,f:Peptostreptococcaceae,g:Terrisporobacter,s:Terrisporobacter muris
 257 OTU_287:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Corynebacteriales,f:Corynebacteriaceae,g:Corynebacterium,s:Uncultured
 258 OTU_915:k:Bacteria,p:Firmicutes,c:Clostridia,o:Eubacteriales,f:Eubacteriaceae,g:Eubacterium,s:Eubacterium limosum
 259 OTU_325:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Eggerthellaceae
 260 OTU_2355:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Corynebacteriales,f:Corynebacteriaceae,g:Corynebacterium,s:Uncultured
 261 OTU_59:k:Bacteria,p:Firmicutes,c:Bacilli,o:Bacillales,f:Planococcaceae,g:Kurthia,s:Kurthia populi
 262 OTU_255:k:Bacteria,p:Firmicutes,c:Clostridia,o:Monoglobales,f:Monoglobaceae,g:Monoglobus,s:uncultured
 263 OTU_358:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 264 OTU_177:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:Oscillibacter,s:uncultured bacterium
 265 OTU_1078:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Rhodocyclaceae,g:Dechloromonas
 266 OTU_604:k:Bacteria,p:Firmicutes,c:Clostridia,o:Christensenellales,f:Christensenellaceae,g:Christensenellaceae R-7 group,s:uncultured
 267 OTU_718:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Corynebacteriales,f:Dietziaceae,g:Dietzia,s:Dietzia timorensis
 268 OTU_238:k:Bacteria,p:Firmicutes,c:Bacilli,o:Staphylococcales,f:Staphylococcaceae,g:Jeotgalicoccus
 269 OTU_682:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:[Eubacterium]-hallii group
 270 OTU_535:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 271 OTU_455:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 272 OTU_689:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Tannerellaceae,g:Parabacteroides,s:uncultured bacterium
 273 OTU_612:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,f:Anaerovoracaceae,g:Mogibacterium,s:uncultured
 274 OTU_174:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae
 275 OTU_178:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:Colidextribacter
 276 OTU_1929:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptococcales,f:Peptococcaceae,g:uncultured,s:uncultured bacterium
 277 OTU_742:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae
 278 OTU_594:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Pseudomonadales,f:Moraxellaceae
 279 OTU_1819:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:GCA-900066575,s:uncultured bacterium
 280 OTU_1822:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Coprococcus,s:uncultured bacterium
 281 OTU_225:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Bacteroidaceae,g:Bacteroides,s:uncultured bacterium
 282 OTU_424:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:uncultured,s:uncultured bacterium
 283 OTU_158:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Alloprevotella,s:uncultured bacterium
 284 OTU_501:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:[Eubacterium]_coprostanoligenes group

285 OTU_285:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Rikenellaceae,g:Rikenellaceae RC9 gut group,s:uncultured
 286 OTU_1892:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Coproccoccus
 287 OTU_93:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridia_UCG-014
 288 OTU_2542:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Oribacterium,s:uncultured bacterium
 289 OTU_231:k:Bacteria,p:Patiscibacteria,c:Saccharimonadia,o:Saccharimonadales,f:Saccharimonadaceae,g:Candidatus Saccharimonas,s:uncultured
 290 OTU_423:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 291 OTU_1447:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:uncultured
 292 OTU_3745:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Lachnospiraceae FCS020 group,s:uncultured
 293 OTU_204:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 294 OTU_878:k:Bacteria,p:Fusobacteriota,c:Fusobacteriia,o:Fusobacteriales,f:Leptotrichiaceae,g:Leptotrichia,s:Leptotrichia PG10
 295 OTU_387:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Prevotellaceae,g:Prevotellaceae UCG-003
 296 OTU_284:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:uncultured,s:uncultured bacterium
 297 OTU_826:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:[Eubacterium]_coprostanoligenes group
 298 OTU_125:k:Bacteria,p:Firmicutes,c:Bacilli,o:Staphylococcales,f:Staphylococcaceae,g:Jeotgalicoccus,s:Jeotgalicoccus pinnipedialis
 299 OTU_3646:k:Bacteria,p:Firmicutes,c:Bacilli,o:RF39
 300 OTU_1823:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Rhizobiaceae
 301 OTU_1411:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Eggerthellaceae,g:uncultured,s:uncultured bacterium
 302 OTU_1018:k:Bacteria,p:Firmicutes,c:Negativicutes,o:Veillonellales-Selenomonadales,f:Veillonellaceae,g:Allisonella,s:Allisonella histaminiformans
 303 OTU_744:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 304 OTU_1082:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales
 305 OTU_3059:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 306 OTU_937:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Streptococcaceae,g:Streptococcus,s:Strep
 307 Ocococcus ferus
 308 OTU_1439:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Micrococcales,f:Microbacteriaceae,g:Leucobacter,s:Leucobacter sp.
 309 OTU_908:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:uncultured
 310 OTU_309:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:uncultured,s:uncultured bacterium
 311 OTU_2544:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:uncultured,s:uncultured bacterium
 312 OTU_2833:k:Bacteria,p:Desulfobacterota,c:Desulfovibrionia,o:Desulfovibrionales,f:Desulfovibrionaceae,g:uncultured,s:uncultured
 313 OTU_904:k:Bacteria,p:Firmicutes,c:Bacilli,o:RF39
 314 OTU_1875:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridiales,f:Clostridiaceae,g:Clostridium sensu stricto 13,s:Clostridium subterminale
 315 OTU_401:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Caulobacteriales,f:Caulobacteraceae,g:Brevundimonas

316 OTU_4253:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 317 OTU_898:k:Bacteria,p:Firmicutes,c:Clostridia,o:Christensenellales,f:Christensenellaceae,g:Christensenellaceae R-7 group,s:uncultured
 318 OTU_274:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:Ruminococcus,s:uncultured
 319 OTU_1213:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:uncultured
 320 OTU_1552:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:Colidextribacter,s:Uncultured bacterium
 321 OTU_393:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Eggerthellaceae,g:uncultured,s:uncultured
 322 OTU_615:k:Bacteria,p:Firmicutes,c:Clostridia,o:Monoglobales,f:Monoglobaceae,g:Monoglobus,s:uncultured bacterium
 323 OTU_1407:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelatoclostridiaceae,g:Erysipelatoclostridium,s:Uncultured bacterium
 324 OTU_517:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 325 OTU_2626:k:Bacteria,p:Firmicutes,c:Negativicutes,o:Veillonellales-Selenomonadales,f:Selenomonadaceae,g:Megamonas,s:Megamonas funiformis
 326 OTU_1003:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:UCG-005,s:uncultured bacterium
 327 OTU_2976:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Streptococcaceae,g:Streptococcus,s:Streptococcus anginosus
 328 OTU_331:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Rikenellaceae,g:dgA-11 gut group,s:uncultured bacterium
 329 OTU_786:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,f:Anaerovoracaceae,g:[Eubacterium]-brachy group,s:uncultured
 330 OTU_3909:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 331 OTU_688:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:uncultured,s:uncultured bacterium
 332 OTU_631:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae
 333 OTU_481:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:uncultured,s:uncultured bacterium
 334 OTU_249:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Aerococcaceae,g:Aerococcus,s:Aerococcus viridans
 335 OTU_1137:k:Bacteria,p:Firmicutes,c:Clostridia,o:uncultured
 336 OTU_1833:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:uncultured
 337 OTU_630:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:Incetae Sedis,s:Uncultured bacterium
 338 OTU_1104:k:Bacteria,p:Firmicutes,c:Bacilli,o:Bacillales,f:Planococcaceae
 339 OTU_3986:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:[Eubacterium]-coprostanoligenes group
 340 OTU_2968:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 341 OTU_368:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Aerococcaceae
 342 OTU_3830:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 343 OTU_449:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 344 OTU_509:k:Bacteria,p:Firmicutes,c:Clostridia,o:Christensenellales,f:Christensenellaceae,g:Christensenellaceae R-7 group
 345 OTU_2606:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Corynebacteriales,f:Corynebacteriaceae,g:Corynebacterium,s:Corynebacterium casei
 346 OTU_746:k:Bacteria,p:Firmicutes,c:Negativicutes,o:Veillonellales-Selenomonadales,f:Veillonellaceae,g:Veillonella,s:Veillonella sp

347 OTU_418:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelatoclostridiaceae,g:Erysipelatoclostridium,s:uncultured
 348 OTU_426:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Rikenellaceae,g:Rikenellaceae RC9 gut group,s:uncultured
 349 OTU_500:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 350 OTU_483:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Burkholderiales,f:Comamonadaceae,g:Delftia,s:Delftia acidovorans
 351 OTU_384:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales
 352 OTU_3775:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Lactobacillus reuteri
 353 OTU_534:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Aerococcaceae,g:Aerosphaera,s:Fundicoccus ignavus
 354 OTU_1028:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptococcales,f:Peptococcaceae,g:uncultured,s:uncultured bacterium
 355 OTU_391:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:Flavonifractor,s:Flavonifractor plautii
 356 OTU_565:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:UBA1819,s:Ruthenibacterium lactatiformans
 357 OTU_385:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales
 358 OTU_649:k:Bacteria,p:Firmicutes,c:Clostridia,o:Christensenellales,f:Christensenellaceae,g:Christensenellaceae R-7 group,s:uncultured
 359 OTU_3395:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 360 OTU_1768:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Atopobiaceae
 361 OTU_1123:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:uncultured,s:uncultured bacterium
 362 OTU_1042:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelotrichaceae,g:Erysipelotrichaceae UCG-006,s:uncultured
 363 OTU_4419:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:Uncultured bacterium
 364 OTU_314:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae
 365 OTU_882:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Eggerthellaceae,g:Enterorhabdus,s:uncultured
 366 OTU_705:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Coriobacteriaceae,g:Collinsella
 367 OTU_2147:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:[Eubacterium]-siraeum group
 368 OTU_1203:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Eggerthellaceae
 369 OTU_640:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Rikenellaceae,g:Alistipes,s:uncultured
 370 OTU_822:k:Bacteria,p:Bacteroidota,c:Bacteroidia,o:Bacteroidales,f:Muribaculaceae
 371 OTU_337:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Aerococcaceae,g:Facklamia,s:Uncultured
 372 OTU_3310:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Frankiales,f:Sporichthyaceae,g:hgcI clade,s:uncultured bacterium
 373 OTU_2237:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Eggerthellaceae
 374 OTU_1063:k:Bacteria,p:Firmicutes,c:Clostridia,o:Christensenellales,f:Christensenellaceae,g:Christensenellaceae R-7 group,s:uncultured
 375 OTU_537:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Carnobacteriaceae
 376 OTU_709:k:Bacteria,p:Proteobacteria,c:Gammaproteobacteria,o:Enterobacterales,f:Yersiniaceae,g:Serratia,s:Serratia proteamaculans
 377 OTU_3243:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Lactobacillaceae,g:Lactobacillus,s:uncultured bacterium

378 OTU_1346:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Actinomycetales,f:Actinomycetaceae,g:Actinomyces
 379 OTU_4014:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:Sphingomonadaceae,g:Novosphingobium
 380 OTU_404:k:Bacteria,p:Firmicutes,c:Bacilli,o:Erysipelotrichales,f:Erysipelatoclostridiaceae,g:Candidatus Stoquefichus
 381 OTU_663:k:Bacteria,p:Firmicutes,c:Clostridia,o:Clostridia vadinBB60 group
 382 OTU_941:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Oscillospiraceae,g:Oscillibacter,s:uncultured bacterium
 383 OTU_563:k:Bacteria,p:Firmicutes,c:Clostridia,o:Lachnospirales,f:Lachnospiraceae,g:Lachnospiraceae NK4A136 group
 384 OTU_1827:k:Bacteria,p:Firmicutes,c:Clostridia,o:Peptostreptococcales-Tissierellales,g:Anaerococcus,s:Anaerococcus nagyae
 385 OTU_767:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Sphingomonadales,f:Sphingomonadaceae,g:Erythrobacter,s:Erythrobacter DHXJ15
 386 OTU_812:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Butyricicoccaceae,g:UCG-009,s:uncultured bacterium
 387 OTU_713:k:Bacteria,p:Firmicutes,c:Bacilli,o:RF39
 388 OTU_1333:k:Bacteria,p:Firmicutes,c:Clostridia,o:Oscillospirales,f:Ruminococcaceae,g:uncultured,s:uncultured bacterium
 389 OTU_3562:k:Bacteria,p:Patescibacteria,c:Saccharimonadia,o:Saccharimonadales
 390 OTU_944:k:Bacteria,p:Proteobacteria,c:Alphaproteobacteria,o:Rhizobiales,f:Hyphomicrobiaceae,g:Pedomicrobium,s:Uncultured
 391 OTU_1622:k:Bacteria,p:Patescibacteria,c:Saccharimonadia,o:Saccharimonadales
 392 OTU_1506:k:Bacteria,p:Patescibacteria,c:Saccharimonadia,o:Saccharimonadales
 393 OTU_874:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Actinomycetales,f:Actinomycetaceae,g:Actinomyces,s:Uncultured
 394 OTU_1316:k:Bacteria,p:Actinobacteriota,c:Coriobacteriia,o:Coriobacteriales,f:Eggerthellaceae,g:Slackia,s:Slackia piriformis
 395 OTU_4301:k:Bacteria,p:Firmicutes,c:Bacilli,o:Lactobacillales,f:Streptococcaceae
 396 OTU_1460:k:Bacteria,p:Actinobacteriota,c:Actinobacteria,o:Bifidobacteriales,f:Bifidobacteriaceae,g:Bifidobacterium,s:Bifidobacterium mongoliense
