

Supplementary Table 1 Details of number of rats sampled

Sample_name	Lcation_name	Species
YGL1	Yinggeling	Leopoldamys edwardsi
YGL2	Yinggeling	Leopoldamys edwardsi
YGL3	Yinggeling	Leopoldamys edwardsi
YGL4	Yinggeling	Leopoldamys edwardsi
YGL5	Yinggeling	Leopoldamys edwardsi
YGL6	Yinggeling	Leopoldamys edwardsi
YGL7	Yinggeling	Leopoldamys edwardsi
YGL8	Yinggeling	Leopoldamys edwardsi
YGL9	Yinggeling	Leopoldamys edwardsi
YGL10	Yinggeling	Leopoldamys edwardsi
YGL11	Yinggeling	Leopoldamys edwardsi
YGL12	Yinggeling	Leopoldamys edwardsi
YGL13	Yinggeling	Leopoldamys edwardsi
YGL14	Yinggeling	Leopoldamys edwardsi
YGL15	Yinggeling	Leopoldamys edwardsi
YGL16	Yinggeling	Leopoldamys edwardsi
YGL17	Yinggeling	Leopoldamys edwardsi
YGL18	Yinggeling	Leopoldamys edwardsi
YGL19	Yinggeling	Leopoldamys edwardsi
YGL20	Yinggeling	Leopoldamys edwardsi
YGL21	Yinggeling	Leopoldamys edwardsi
YGL22	Yinggeling	Leopoldamys edwardsi
YGL23	Yinggeling	Leopoldamys edwardsi
YGL24	Yinggeling	Leopoldamys edwardsi
YGL25	Yinggeling	Leopoldamys edwardsi
YGL26	Yinggeling	Leopoldamys edwardsi
YGL27	Yinggeling	Leopoldamys edwardsi

YGL28	Yinggeling	Leopoldamys edwardsi
YGL29	Yinggeling	Leopoldamys edwardsi
YGL30	Yinggeling	Leopoldamys edwardsi
YGL31	Yinggeling	Leopoldamys edwardsi
YGL32	Yinggeling	Leopoldamys edwardsi
HJL1	Huangjingjiaoling	Leopoldamys edwardsi
HJL2	Huangjingjiaoling	Leopoldamys edwardsi
HJL3	Huangjingjiaoling	Leopoldamys edwardsi
HJL4	Huangjingjiaoling	Leopoldamys edwardsi
HJL5	Huangjingjiaoling	Leopoldamys edwardsi
HJL6	Huangjingjiaoling	Leopoldamys edwardsi
HJL7	Huangjingjiaoling	Leopoldamys edwardsi
HJL8	Huangjingjiaoling	Leopoldamys edwardsi
HJL9	Huangjingjiaoling	Leopoldamys edwardsi
HJL10	Huangjingjiaoling	Leopoldamys edwardsi
HJL11	Huangjingjiaoling	Leopoldamys edwardsi
HJL12	Huangjingjiaoling	Leopoldamys edwardsi
HJL13	Huangjingjiaoling	Leopoldamys edwardsi
HJL14	Huangjingjiaoling	Leopoldamys edwardsi
HJL15	Huangjingjiaoling	Leopoldamys edwardsi
HJL16	Huangjingjiaoling	Leopoldamys edwardsi
HJL17	Huangjingjiaoling	Leopoldamys edwardsi
HJL18	Huangjingjiaoling	Leopoldamys edwardsi
HJL19	Huangjingjiaoling	Leopoldamys edwardsi
HJL20	Huangjingjiaoling	Leopoldamys edwardsi
HJL21	Huangjingjiaoling	Leopoldamys edwardsi
HJL22	Huangjingjiaoling	Leopoldamys edwardsi
HJL23	Huangjingjiaoling	Leopoldamys edwardsi
HJL24	Huangjingjiaoling	Leopoldamys edwardsi

HJL25	Huangjingjiaoling	Leopoldamys edwardsi
DZ1	Danzhou	Rattus norvegicus
DZ2	Danzhou	Rattus norvegicus
DZ3	Danzhou	Rattus norvegicus
DZ4	Danzhou	Rattus norvegicus
DZ5	Danzhou	Rattus norvegicus
DZ6	Danzhou	Rattus norvegicus
DZ7	Danzhou	Rattus norvegicus
DZ8	Danzhou	Rattus norvegicus
DZ9	Danzhou	Rattus norvegicus
DZ10	Danzhou	Rattus norvegicus
DZ11	Danzhou	Rattus norvegicus
DZ12	Danzhou	Rattus norvegicus
DF1	Dongfang	Rattus norvegicus
DF2	Dongfang	Rattus norvegicus
DF3	Dongfang	Rattus norvegicus
DF4	Dongfang	Rattus norvegicus
DF5	Dongfang	Rattus norvegicus
DF6	Dongfang	Rattus norvegicus
DF7	Dongfang	Rattus norvegicus
DF8	Dongfang	Rattus norvegicus
DF9	Dongfang	Rattus norvegicus
DF10	Dongfang	Rattus norvegicus
DF11	Dongfang	Rattus norvegicus
DF12	Dongfang	Rattus norvegicus
HK1	Haikou	Rattus norvegicus
HK2	Haikou	Rattus norvegicus
HK3	Haikou	Rattus norvegicus
HK4	Haikou	Rattus norvegicus

HK5	Haikou	<i>Rattus norvegicus</i>
HK6	Haikou	<i>Rattus norvegicus</i>
HK7	Haikou	<i>Rattus norvegicus</i>
HK8	Haikou	<i>Rattus norvegicus</i>
HK9	Haikou	<i>Rattus norvegicus</i>
HK10	Haikou	<i>Rattus norvegicus</i>
HK11	Haikou	<i>Rattus norvegicus</i>
HK12	Haikou	<i>Rattus norvegicus</i>
HK13	Haikou	<i>Rattus norvegicus</i>
JFL1	Jianfengling	<i>Leopoldamys edwardsi</i>
JFL2	Jianfengling	<i>Leopoldamys edwardsi</i>
JFL3	Jianfengling	<i>Leopoldamys edwardsi</i>
JFL4	Jianfengling	<i>Leopoldamys edwardsi</i>
JFL5	Jianfengling	<i>Leopoldamys edwardsi</i>
JFL6	Jianfengling	<i>Leopoldamys edwardsi</i>
JFL7	Jianfengling	<i>Leopoldamys edwardsi</i>
JFL8	Jianfengling	<i>Leopoldamys edwardsi</i>
JFL9	Jianfengling	<i>Leopoldamys edwardsi</i>
JFL10	Jianfengling	<i>Leopoldamys edwardsi</i>
JFL11	Jianfengling	<i>Leopoldamys edwardsi</i>
JFL12	Jianfengling	<i>Leopoldamys edwardsi</i>
JFL13	Jianfengling	<i>Leopoldamys edwardsi</i>
BS1	Baisha	<i>Rattus norvegicus</i>
BS2	Baisha	<i>Rattus norvegicus</i>
BS3	Baisha	<i>Rattus norvegicus</i>
BS4	Baisha	<i>Rattus norvegicus</i>
BS5	Baisha	<i>Rattus norvegicus</i>
BS6	Baisha	<i>Rattus norvegicus</i>
BS7	Baisha	<i>Rattus norvegicus</i>

BS8	Baisha	<i>Rattus norvegicus</i>
BS9	Baisha	<i>Rattus norvegicus</i>
BS10	Baisha	<i>Rattus norvegicus</i>
BS11	Baisha	<i>Rattus norvegicus</i>
BS12	Baisha	<i>Rattus norvegicus</i>
SY1	Sanya	<i>Rattus norvegicus</i>
SY2	Sanya	<i>Rattus norvegicus</i>
SY3	Sanya	<i>Rattus norvegicus</i>
SY4	Sanya	<i>Rattus norvegicus</i>
SY5	Sanya	<i>Rattus norvegicus</i>
SY6	Sanya	<i>Rattus norvegicus</i>
SY7	Sanya	<i>Rattus norvegicus</i>
SY8	Sanya	<i>Rattus norvegicus</i>
SY9	Sanya	<i>Rattus norvegicus</i>
SY10	Sanya	<i>Rattus norvegicus</i>
SY11	Sanya	<i>Rattus norvegicus</i>
SY12	Sanya	<i>Rattus norvegicus</i>
SY13	Sanya	<i>Rattus norvegicus</i>
SY14	Sanya	<i>Rattus norvegicus</i>
SY16	Sanya	<i>Rattus norvegicus</i>
SY17	Sanya	<i>Rattus norvegicus</i>
SY18	Sanya	<i>Rattus norvegicus</i>
SY19	Sanya	<i>Rattus norvegicus</i>
SY20	Sanya	<i>Rattus norvegicus</i>
SY21	Sanya	<i>Rattus norvegicus</i>
SY22	Sanya	<i>Rattus norvegicus</i>
SY23	Sanya	<i>Rattus norvegicus</i>
SY24	Sanya	<i>Rattus norvegicus</i>
LG1	Lingao	<i>Rattus losea</i>

LG2	Lingao	Rattus losea
LG3	Lingao	Rattus losea
LG4	Lingao	Rattus losea
LG5	Lingao	Rattus losea
LG6	Lingao	Rattus losea
LG7	Lingao	Rattus losea
LG8	Lingao	Rattus losea
LG9	Lingao	Rattus losea
LG10	Lingao	Rattus losea
LG11	Lingao	Rattus losea
LG12	Lingao	Rattus losea
LG13	Lingao	Rattus losea
LG14	Lingao	Rattus losea
LG15	Lingao	Rattus losea
LG16	Lingao	Rattus losea
LG17	Lingao	Rattus losea
LG18	Lingao	Rattus losea
LG19	Lingao	Rattus losea
LG20	Lingao	Rattus losea

Supplementary Table 2 Total of raw reads and clean reads of rat samples in nine localities

SampleName	RawReads	CleanReads	Base(nt)	AvgLen(nt)	Q20	GC%	Effective%
YGL1	85295	80131	33466794	417	81.73	54.43	93.95
YGL2	72817	71346	30032838	420	80.07	54.74	97.98
YGL3	75743	70846	29389827	414	82.17	53.51	93.53
YGL4	88133	80091	32938807	411	81.28	53.56	90.88
YGL5	87429	80060	33008982	412	82.06	53.24	91.57
YGL6	87179	80228	33120053	412	82.34	53	92.03
YGL7	87743	80317	34284207	426	82.39	51.87	91.54
YGL8	84345	80084	33220013	414	82.46	52.99	94.95
YGL9	83650	80120	33001618	411	81.65	54.23	95.78
YGL10	85825	80199	33145011	413	81.56	52.33	93.44
YGL11	86257	80187	33284566	415	82.8	53.82	92.96
YGL12	89686	82606	34402048	416	81.11	53.18	92.11
YGL13	63877	60785	25105471	413	82.73	53.07	95.16
YGL14	85345	81385	33629409	413	82.37	53.23	95.36
YGL15	88799	80249	33090766	412	80.61	52.93	90.37

YGL16	83579	80271	33407481	416	82.14	54.15	96.04
YGL17	84674	80205	32972402	411	82.19	53.22	94.72
YGL18	88610	80010	33307607	416	82.4	52.45	90.29
YGL19	87136	80099	32962162	411	82.11	52.84	91.92
YGL20	88709	80324	33436875	416	82.53	51.71	90.55
YGL21	81938	80195	33983255	423	82.9	51.88	97.87
YGL22	85160	80195	33121045	413	82.31	53.33	94.17
YGL23	83794	80266	34211232	426	83.31	50.07	95.79
YGL24	81498	79389	33045534	416	82.18	52.67	97.41
YGL25	84772	80101	33869272	422	78.74	51.9	94.49
YGL26	86665	80865	33491161	414	79.93	52.97	93.31
YGL27	83436	80223	32940340	410	79.2	54.08	96.15
YGL28	85469	80214	33046844	411	79.29	53.19	93.85
YGL29	76625	70851	29437188	415	79.16	52.49	92.46
YGL30	88023	84816	35437888	417	78.44	52.26	96.36
YGL31	83124	80193	33062605	412	81.94	51.99	96.47
YGL32	83809	80146	33092278	412	79.05	52.64	95.63

HJL1	91180	88228	36939429	418	78.68	53.86	96.76
HJL2	83042	80097	33154480	413	78.46	53.37	96.45
HJL3	67900	66035	27302670	413	79.75	53.13	97.25
HJL4	71542	65517	27059456	413	78.88	53.62	91.58
HJL5	76188	72340	29813909	412	80.42	52.66	94.95
HJL6	85280	80230	33264899	414	82.37	53.52	94.08
HJL7	84997	83122	34472359	414	80.09	53.35	97.79
HJL8	77154	69591	28762072	413	78.52	53.89	90.2
HJL9	99260	98047	41714242	425	82.98	46.61	98.78
HJL10	74456	72302	30937253	427	81.97	48.78	97.11
HJL11	87761	80049	32959136	411	80.81	52.74	91.21
HJL12	86202	80136	33992056	424	80.58	54.79	92.96
HJL13	65417	60620	25112591	414	78.25	54.31	92.67
HJL14	88641	80196	33467319	417	78.51	54.35	90.47
HJL15	85367	80082	32953220	411	81.04	52.34	93.81
HJL16	96877	89911	37971622	422	80.49	49.19	92.81
HJL17	75871	69463	28582215	411	79.43	53.6	91.55

HJL18	88761	80038	33239855	415	77	54.12	90.17
HJL19	87986	80243	33295333	414	78.14	53.43	91.2
HJL20	91578	85342	34845440	408	84.71	50.62	93.19
HJL21	82726	74476	30771615	413	80.06	53.6	90.03
HJL22	82963	80213	34163133	425	80.03	51.61	96.69
HJL23	88051	80345	33043157	411	80.47	53.01	91.25
HJL24	83256	80153	34156936	426	79.72	52.73	96.27
HJL25	66181	61895	25588854	413	79.37	53.42	93.52
DZ1	83426	80106	32836830	409	80.35	52.8	96.02
DZ2	87787	80144	34216109	426	80.65	51.85	91.29
DZ3	83271	80214	32960898	410	81.11	53.88	96.33
DZ4	83190	80291	34411693	428	82.68	50.64	96.52
DZ5	84514	80158	34324627	428	78.78	52.13	94.85
DZ6	82490	80280	34094167	424	76.78	54.51	97.32
DZ7	84040	82310	34562597	419	81.79	51.79	97.94
DZ8	84568	80091	33346548	416	80.93	52.01	94.71
DZ9	88248	80233	34209486	426	81.86	51.74	90.92

DZ10	87146	80154	33966654	423	81.05	51.77	91.98
DZ11	74248	72470	30375286	419	81.39	52.35	97.61
DZ12	88262	84016	34252469	407	82.11	52.5	95.19
DF1	70061	68237	28358616	415	81.22	51.97	97.4
DF2	80098	75670	32336780	427	82.82	51.37	94.47
DF3	69810	65809	27685970	420	81.1	51.21	94.27
DF4	62828	59226	24817013	419	80.97	52.51	94.27
DF5	61903	59842	25669509	428	82.65	50.52	96.67
DF6	84650	80192	33216718	414	80.41	51.88	94.73
DF7	77050	71507	30565104	427	80.19	51.67	92.81
DF8	95071	92939	39564544	425	82.84	50.95	97.76
DF9	86051	80141	33825008	422	81.54	51.77	93.13
DF10	69660	66396	28344843	426	80.16	51.43	95.31
DF11	87888	80455	33545937	416	79.55	49.04	91.54
DF12	68640	64526	26998919	418	80.45	50.1	94.01
HK1	87584	80117	33007956	411	80.44	53.43	91.47
HK2	98832	92896	37869295	407	81.77	52.7	93.99

HK3	82012	80128	33098385	413	80.3	52.41	97.7
HK4	85256	80228	33383322	416	79.47	53	94.1
HK5	82655	80133	34315576	428	81.61	51.56	96.95
HK6	88818	80198	33745732	420	81.45	53.28	90.29
HK7	82098	80226	33768007	420	81.21	52.52	97.72
HK8	68672	63544	26207132	412	80.96	52.61	92.53
HK9	62088	59489	24182802	406	82.42	54.29	95.81
HK10	85973	80130	32725784	408	82.01	52.32	93.2
HK11	84880	80110	33246569	415	80.79	53.04	94.38
HK12	64090	59706	24720829	414	79.58	54.07	93.16
HK13	83182	80030	33353227	416	82.36	52.43	96.21
JFL1	84239	77721	30991709	398	74.57	53.38	92.26
JFL2	75992	72756	30428619	418	82.04	47.84	95.74
JFL3	85775	83303	34139816	409	76.73	52.6	97.12
JFL4	71137	69139	28394991	410	76.46	53.25	97.19
JFL5	84104	80010	32937266	411	76.16	53.03	95.13
JFL6	69183	66051	27259302	412	73.4	54.28	95.47

JFL7	83944	80169	32520388	405	78.5	51.48	95.5
JFL8	80612	77833	32091509	412	78.21	53.16	96.55
JFL9	82282	80172	32969387	411	75.67	54.4	97.44
JFL10	60147	58378	23906049	409	73.59	53.23	97.06
JFL11	82627	80070	32787209	409	74.61	55	96.91
JFL12	85993	80059	32885873	410	75.44	53.67	93.1
JFL13	88746	80152	32762025	408	75.39	53.83	90.32
BS1	87490	80067	32515919	406	76	53	91.52
BS2	82846	75801	30398963	401	80.21	50.83	91.5
BS3	87240	80170	33197318	414	76.98	51.44	91.9
BS4	83419	80086	32442916	405	75.61	53.07	96
BS5	88943	80280	32799135	408	75.53	52.11	90.26
BS6	87178	80128	32326675	403	76.34	53.19	91.91
BS7	85266	80189	33203766	414	73.66	52.39	94.05
BS8	85304	80138	32845742	409	75.34	52.42	93.94
BS9	86780	80077	32574150	406	76.9	52.59	92.28
BS10	83816	81276	33053336	406	73.91	51.97	96.97

BS11	84108	80132	32445813	404	76.29	52.6	95.27
BS12	88969	80125	33589003	419	79.58	51.02	90.06
SY1	51256	50037	20414728	407	74.8	53.7	97.62
SY2	86744	80062	32647083	407	79.97	50.77	92.3
SY3	84908	80017	32595680	407	77.05	52.03	94.24
SY4	85428	80121	32824998	409	76.85	50.84	93.79
SY5	91826	87762	35428031	403	77.04	51.42	95.57
SY6	84043	80064	33218627	414	75.12	50.39	95.27
SY7	87973	80088	32558968	406	74.76	52.18	91.04
SY8	85272	80163	32712236	408	76.49	51.04	94.01
SY9	83107	80065	32516745	406	76.95	51.61	96.34
SY10	88040	80063	32839208	410	77.74	51.32	90.94
SY11	87174	79097	32623070	412	77.43	51.08	90.73
SY12	86841	80289	33684637	419	85.16	49.75	92.46
SY13	79474	72387	29877356	412	83.17	50.89	91.08
SY14	91743	87337	36217852	414	84.05	50.45	95.2
SY16	83560	78307	32061914	409	83.62	54.13	93.71

SY17	88530	80065	32856446	410	83.62	53.21	90.44
SY18	58019	55266	23037113	416	85.12	51.42	95.26
SY19	86599	80073	32748503	408	85.45	52.52	92.46
SY20	81034	79123	32965635	416	79.67	49.41	97.64
SY21	85100	80145	33202608	414	83.33	51.76	94.18
SY22	88154	82780	34536005	417	83.81	50.29	93.9
SY23	73739	71092	29206488	410	82	53.1	96.41
SY24	85975	80971	33908834	418	84.34	49.92	94.18
LG1	84990	77429	32496153	419	80.16	51.97	91.1
LG2	88449	80033	33611970	419	78.91	53.07	90.48
LG3	51601	47154	19223215	407	67.62	54.02	91.38
LG4	84379	80084	33202265	414	79.95	52.8	94.91
LG5	82154	80130	32996715	411	80.59	53.05	97.54
LG6	84259	80154	33129631	413	78.78	54.24	95.13
LG7	84977	80017	33435878	417	82.69	50.69	94.16
LG8	84518	80062	32741525	408	81.52	52.24	94.73
LG9	81988	79412	33258173	418	77.49	52.03	96.86

LG10	82721	80221	33169430	413	80.05	53.11	96.98
LG11	90639	82771	34032005	411	80.02	53.45	91.32
LG12	66436	62514	25884650	414	80	54.04	94.1
LG13	86400	82101	33949975	413	78.56	53.45	95.02
LG14	67269	61030	24934519	408	79.97	53.88	90.73
LG15	69408	65870	26825463	407	82.45	54.01	94.9
LG16	86126	80029	33280251	415	79.63	53.66	92.92
LG17	89104	80195	33901357	422	84.42	52.48	90
LG18	83425	80235	32743945	408	80.41	53.16	96.18
LG19	86024	80109	32848957	410	82.23	52.98	93.12
LG20	82386	80237	33661568	419	83.17	51.55	97.39
Sum	13326753	12537453					
Mean	82263.91	77391.69					
SE	8277.45	7604.97					

Supplementary Table 3 Total of OTU numbers belonging to phyla, family, genus and species

#OTUId	phyla	families	genera	species
OTU_3389	Proteobacteria	Xanthomonadaceae	Stenotrophomonas	Stenotrophomonas_nitritireducens
OTU_2304	Proteobacteria	Xanthomonadaceae	Stenotrophomonas	Stenotrophomonas_rhizophila
OTU_2635	Proteobacteria	Xanthomonadaceae	Stenotrophomonas	
OTU_802	Proteobacteria	Xanthomonadaceae	Stenotrophomonas	
OTU_2424	Proteobacteria	Xanthomonadaceae	Pseudoxanthomonas	Pseudoxanthomonas_mexicana
OTU_2902	Proteobacteria	Xanthomonadaceae	Pseudoxanthomonas	
OTU_1878	Proteobacteria	Xanthomonadaceae	Lysobacter	Lysobacter_gummosus

OTU_1162	Proteobacteria	Xanthomonadaceae	Lysobacter	Lysobacter_sp
OTU_3316	Proteobacteria	Xanthomonadaceae	Lysobacter	Lysobacter_sp_RHLT3-4
OTU_2606	Proteobacteria	Xanthomonadaceae	Lysobacter	
OTU_1645	Proteobacteria	Xanthomonadaceae	Lysobacter	
OTU_3287	Proteobacteria	Xanthomonadaceae	Lysobacter	
OTU_2116	Proteobacteria	Xanthomonadaceae	Lysobacter	
OTU_4032	Proteobacteria	Xanthomonadaceae	Lysobacter	
OTU_1487	Proteobacteria	Xanthomonadaceae	Luteimonas	Luteimonas_aestuarii
OTU_2450	Proteobacteria	Xanthomonadaceae	Luteimonas	

		e		
OTU_1991	Proteobacteria	Xanthomonadacea	Arenimonas	
		e		
OTU_1863	Proteobacteria	Xanthomonadacea	Arenimonas	
		e		
OTU_3812	Proteobacteria	Xanthomonadacea	Arenimonas	
		e		
OTU_3337	Proteobacteria	Xanthomonadacea		
		e		
OTU_3908	Proteobacteria	Xanthomonadacea		
		e		
OTU_3669	Proteobacteria	Xanthobacteraceae	Xanthobacter	
OTU_2328	Proteobacteria	Xanthobacteraceae	Variibacter	Variibacter_gotjawalensis
OTU_2136	Proteobacteria	Xanthobacteraceae	Starkeya	
OTU_4133	Proteobacteria	Xanthobacteraceae	Rhodopseudomonas	
OTU_2094	Proteobacteria	Xanthobacteraceae	Rhodoplanes	
OTU_1801	Proteobacteria	Xanthobacteraceae	Pseudolabrys	

OTU_553	Proteobacteria	Xanthobacteraceae	Bradyrhizobium	Bradyrhizobium_elkanii
OTU_1715	Proteobacteria	Xanthobacteraceae		
OTU_3196	Proteobacteria	Xanthobacteraceae		
OTU_1490	Lentisphaerae	Victivallaceae	Victivallis	
OTU_2435	Lentisphaerae	Victivallaceae	Victivallis	
OTU_4143	Lentisphaerae	Victivallaceae		
OTU_3092	Proteobacteria	Vibrionaceae	Vibrio	Vibrio_cholerae
OTU_3543	Proteobacteria	Vibrionaceae	Vibrio	Vibrio_furnissii
OTU_2661	Proteobacteria	Vibrionaceae	Photobacterium	
OTU_2852	Verrucomicrobi a	Verrucomicrobiace ae	Brevifollis	
OTU_3346	Verrucomicrobi a	Verrucomicrobiace ae		
OTU_3617	Verrucomicrobi a	Verrucomicrobiace ae		
OTU_702	Firmicutes	Veillonellaceae	Veillonella	Veillonella_magna
OTU_2937	Firmicutes	Veillonellaceae	Veillonella	

OTU_2665	Firmicutes	Veillonellaceae	Veillonella	
OTU_1477	Firmicutes	Veillonellaceae	Veillonella	
OTU_829	Firmicutes	Veillonellaceae	Veillonella	
OTU_3102	Firmicutes	Veillonellaceae	Veillonella	
OTU_3318	Firmicutes	Veillonellaceae	Veillonella	
OTU_2880	Firmicutes	Veillonellaceae	Schwartzia	
OTU_98	Firmicutes	Veillonellaceae	Quinella	
OTU_532	Firmicutes	Veillonellaceae	Quinella	
OTU_1450	Firmicutes	Veillonellaceae	Quinella	
OTU_3699	Firmicutes	Veillonellaceae	Mitsuokella	
OTU_1723	Firmicutes	Veillonellaceae	Megasphaera	
OTU_3068	Firmicutes	Veillonellaceae	Megasphaera	
OTU_753	Firmicutes	Veillonellaceae	Megasphaera	
OTU_4572	Firmicutes	Veillonellaceae	Megamonas	Megamonas_hypermegale
OTU_83	Firmicutes	Veillonellaceae	Megamonas	
OTU_4215	Firmicutes	Veillonellaceae	Megamonas	
OTU_4867	Firmicutes	Veillonellaceae	Dialister	Dialister_pneumosintes

OTU_2634	Firmicutes	Veillonellaceae	Dialister	Dialister_succinatiphilus
OTU_3891	Firmicutes	Veillonellaceae	Dialister	
OTU_1351	Firmicutes	Veillonellaceae	Dialister	
OTU_1340	Firmicutes	Veillonellaceae	Dialister	
OTU_390	Firmicutes	Veillonellaceae	Anaerovibrio	
OTU_230	Firmicutes	Veillonellaceae	Anaerovibrio	
OTU_2656	Firmicutes	Veillonellaceae	Anaerovibrio	
OTU_3202	Firmicutes	Veillonellaceae	Anaeroglobus	
OTU_1599	Firmicutes	Veillonellaceae	Allisonella	
OTU_3535	Firmicutes	Veillonellaceae		Selenomonas_ruminantium
OTU_3215	Firmicutes	Veillonellaceae		
OTU_4648	Firmicutes	Veillonellaceae		
OTU_780	Actinobacteria	Tsukamurellaceae	Tsukamurella	
OTU_4801	Deinococcus-Thermus	Trueperaceae	Truepera	
OTU_3773	Deinococcus-Thermus	Trueperaceae	Truepera	

OTU_3400	Actinobacteria	Thermomonosporaceae	Actinomadura	
OTU_3957	Firmicutes	Thermoactinomycetaceae	Shimazuella	
OTU_2006	Bacteroidetes	Tannerellaceae	Parabacteroides	Monocercomonoides_sp_PA203
OTU_663	Bacteroidetes	Tannerellaceae	Parabacteroides	Parabacteroides_chinchillae
OTU_4713	Bacteroidetes	Tannerellaceae	Parabacteroides	Parabacteroides_distasonis
OTU_376	Bacteroidetes	Tannerellaceae	Parabacteroides	Parabacteroides_distasonis
OTU_772	Bacteroidetes	Tannerellaceae	Parabacteroides	Parabacteroides_goldsteinii
OTU_124	Bacteroidetes	Tannerellaceae	Parabacteroides	Parabacteroides_merdae
OTU_1146	Bacteroidetes	Tannerellaceae	Parabacteroides	
OTU_852	Bacteroidetes	Tannerellaceae	Parabacteroides	
OTU_465	Bacteroidetes	Tannerellaceae	Parabacteroides	
OTU_504	Bacteroidetes	Tannerellaceae	Parabacteroides	
OTU_3052	Bacteroidetes	Tannerellaceae	Parabacteroides	
OTU_544	Bacteroidetes	Tannerellaceae	Parabacteroides	
OTU_1654	Bacteroidetes	Tannerellaceae	Parabacteroides	

OTU_944	Bacteroidetes	Tannerellaceae	Parabacteroides	
OTU_3633	Bacteroidetes	Tannerellaceae	Parabacteroides	
OTU_3826	Bacteroidetes	Tannerellaceae	Parabacteroides	
OTU_291	Bacteroidetes	Tannerellaceae	Parabacteroides	
OTU_2035	Bacteroidetes	Tannerellaceae	Parabacteroides	
OTU_687	Bacteroidetes	Tannerellaceae	Parabacteroides	
OTU_918	Bacteroidetes	Tannerellaceae	Parabacteroides	
OTU_2992	Proteobacteria	Syntrophaceae		
OTU_2550	Synergistetes	Synergistaceae	Cloacibacillus	Cloacibacillus_porcorum
OTU_3748	Synergistetes	Synergistaceae		
OTU_2210	Proteobacteria	Succinivibrionacea e	Succinivibrio	
OTU_3230	Proteobacteria	Succinivibrionacea e	Succinivibrio	
OTU_1046	Proteobacteria	Succinivibrionacea e	Succinivibrio	
OTU_1374	Proteobacteria	Succinivibrionacea	Ruminobacter	Ruminobacter_amylophilus

		e		
OTU_1499	Proteobacteria	Succinivibrionacea	Anaerobiospirillum	Anaerobiospirillum_succiniciproducens
		e		
OTU_74	Proteobacteria	Succinivibrionacea	Anaerobiospirillum	
		e		
OTU_2139	Proteobacteria	Succinivibrionacea		
		e		
OTU_3186	Proteobacteria	Succinivibrionacea		
		e		
OTU_3544	Actinobacteria	Streptomycetaceae	Streptomyces	Actinomycetales_bacterium_AM023
OTU_3198	Actinobacteria	Streptomycetaceae	Streptomyces	Streptomyces_xiamenensis
OTU_2743	Actinobacteria	Streptomycetaceae	Streptomyces	
OTU_398	Firmicutes	Streptococcaceae	Streptococcus	Streptococcus_agalactiae
OTU_153	Firmicutes	Streptococcaceae	Streptococcus	Streptococcus_azizii
OTU_2068	Firmicutes	Streptococcaceae	Streptococcus	Streptococcus_azizii
OTU_548	Firmicutes	Streptococcaceae	Streptococcus	Streptococcus_ferus
OTU_58	Firmicutes	Streptococcaceae	Streptococcus	Streptococcus_hyointestinalis

OTU_3997	Firmicutes	Streptococcaceae	Streptococcus	Streptococcus_hyointestinalis
OTU_1373	Firmicutes	Streptococcaceae	Streptococcus	Streptococcus_minor
OTU_1279	Firmicutes	Streptococcaceae	Streptococcus	Streptococcus_parauberis
OTU_1121	Firmicutes	Streptococcaceae	Streptococcus	Streptococcus_pluranimalium
OTU_1124	Firmicutes	Streptococcaceae	Streptococcus	Streptococcus_ratti
OTU_3894	Firmicutes	Streptococcaceae	Streptococcus	Streptococcus_salivarius_subsp_salivarius
OTU_52	Firmicutes	Streptococcaceae	Streptococcus	Streptococcus_sp_GDLAMI-SD2
OTU_989	Firmicutes	Streptococcaceae	Streptococcus	Streptococcus_sp_NUM_1428
OTU_468	Firmicutes	Streptococcaceae	Streptococcus	Streptococcus_sp_Str-122
OTU_410	Firmicutes	Streptococcaceae	Streptococcus	Streptococcus_suis
OTU_3524	Firmicutes	Streptococcaceae	Streptococcus	
OTU_1941	Firmicutes	Streptococcaceae	Streptococcus	
OTU_3586	Firmicutes	Streptococcaceae	Streptococcus	
OTU_4709	Firmicutes	Streptococcaceae	Streptococcus	
OTU_4571	Firmicutes	Streptococcaceae	Streptococcus	
OTU_2889	Firmicutes	Streptococcaceae	Streptococcus	
OTU_4006	Firmicutes	Streptococcaceae	Streptococcus	

OTU_2687	Firmicutes	Streptococcaceae	Streptococcus	
OTU_1126	Firmicutes	Streptococcaceae	Lactococcus	Lactococcus_lactis
OTU_1815	Firmicutes	Streptococcaceae	Lactococcus	Lactococcus_piscium
OTU_30	Firmicutes	Streptococcaceae	Lactococcus	
OTU_2342	Firmicutes	Streptococcaceae	Lactococcus	
OTU_106	Firmicutes	Staphylococcaceae	Staphylococcus	Staphylococcus_arlettae
OTU_808	Firmicutes	Staphylococcaceae	Staphylococcus	Staphylococcus_condimenti
OTU_61	Firmicutes	Staphylococcaceae	Staphylococcus	Staphylococcus_sciuri
OTU_3785	Firmicutes	Staphylococcaceae	Staphylococcus	
OTU_3830	Firmicutes	Staphylococcaceae	Staphylococcus	
OTU_332	Firmicutes	Staphylococcaceae	Macrocococcus	Macrocococcus_caseolyticus
OTU_3828	Firmicutes	Staphylococcaceae	Macrocococcus	
OTU_864	Firmicutes	Staphylococcaceae	Jeotgalicoccus	Jeotgalicoccus_sp_M3T9B12
OTU_218	Firmicutes	Staphylococcaceae	Jeotgalicoccus	
OTU_1822	Firmicutes	Staphylococcaceae		
OTU_1451	Firmicutes	Sporolactobacillaceae		

OTU_1819	Actinobacteria	Sporichthyaceae		
OTU_2392	Actinobacteria	Sporichthyaceae		
OTU_1514	Bacteroidetes	Spirosomaceae	Pseudarcicella	
OTU_1584	Bacteroidetes	Spirosomaceae	Emticicia	Emticicia_sp_JJ014
OTU_4806	Bacteroidetes	Spirosomaceae	Emticicia	
OTU_4261	Tenericutes	Spiroplasmataceae	Spiroplasma	
OTU_2666	Tenericutes	Spiroplasmataceae	Spiroplasma	
OTU_3943	Tenericutes	Spiroplasmataceae	Spiroplasma	
OTU_2057	Spirochaetes	Spirochaetaceae	Sphaerochaeta	
OTU_4155	Spirochaetes	Spirochaetaceae	Sphaerochaeta	
OTU_3824	Spirochaetes	Spirochaetaceae	Sediminispirochaeta	
OTU_2855	Spirochaetes	Spirochaetaceae		bacterium_enrichment_culture_clone_BBMC-5
OTU_292	Spirochaetes	Spirochaetaceae		Treponema_berlinense
OTU_3247	Spirochaetes	Spirochaetaceae		Treponema_parvum
OTU_2405	Spirochaetes	Spirochaetaceae		Treponema_saccharophilum
OTU_2477	Spirochaetes	Spirochaetaceae		
OTU_435	Spirochaetes	Spirochaetaceae		

OTU_2543	Spirochaetes	Spirochaetaceae
OTU_3334	Spirochaetes	Spirochaetaceae
OTU_853	Spirochaetes	Spirochaetaceae
OTU_4359	Spirochaetes	Spirochaetaceae
OTU_1011	Spirochaetes	Spirochaetaceae
OTU_3408	Spirochaetes	Spirochaetaceae
OTU_2093	Spirochaetes	Spirochaetaceae
OTU_1084	Spirochaetes	Spirochaetaceae
OTU_3665	Spirochaetes	Spirochaetaceae
OTU_275	Spirochaetes	Spirochaetaceae
OTU_4876	Spirochaetes	Spirochaetaceae
OTU_4616	Spirochaetes	Spirochaetaceae
OTU_3875	Spirochaetes	Spirochaetaceae
OTU_151	Spirochaetes	Spirochaetaceae
OTU_4266	Spirochaetes	Spirochaetaceae
OTU_3000	Spirochaetes	Spirochaetaceae
OTU_3712	Spirochaetes	Spirochaetaceae

OTU_3709	Spirochaetes	Spirochaetaceae		
OTU_705	Spirochaetes	Spirochaetaceae		
OTU_1897	Spirochaetes	Spirochaetaceae		
OTU_76	Spirochaetes	Spirochaetaceae		
OTU_915	Spirochaetes	Spirochaetaceae		
OTU_1387	Spirochaetes	Spirochaetaceae		
OTU_2769	Spirochaetes	Spirochaetaceae		
OTU_3610	Spirochaetes	Spirochaetaceae		
OTU_112	Spirochaetes	Spirochaetaceae		
OTU_4547	Spirochaetes	Spirochaetaceae		
OTU_2579	Spirochaetes	Spirochaetaceae		
OTU_2775	Spirochaetes	Spirochaetaceae		
OTU_3949	Proteobacteria	Sphingomonadaceae	Sphingomonas	Sphingomonas_aerolata
OTU_3570	Proteobacteria	Sphingomonadaceae	Sphingomonas	Sphingomonas_koreensis
OTU_2970	Proteobacteria	Sphingomonadaceae	Sphingomonas	Sphingomonas_paucimobilis

		ae		
OTU_2842	Proteobacteria	Sphingomonadace ae	Sphingomonas	
OTU_1410	Proteobacteria	Sphingomonadace ae	Sphingomonas	
OTU_1263	Proteobacteria	Sphingomonadace ae	Sphingomonas	
OTU_143	Proteobacteria	Sphingomonadace ae	Sphingomonas	
OTU_2766	Proteobacteria	Sphingomonadace ae	Sphingomonas	
OTU_3985	Proteobacteria	Sphingomonadace ae	Sphingobium	Sphingobium_fuliginis
OTU_3649	Proteobacteria	Sphingomonadace ae	Sphingobium	
OTU_2371	Proteobacteria	Sphingomonadace ae	Porphyrobacter	

OTU_2408	Proteobacteria	Sphingomonadace ae	Novosphingobium	
OTU_2354	Proteobacteria	Sphingomonadace ae	Erythrobacter	
OTU_3429	Proteobacteria	Sphingomonadace ae	Altererythrobacter	
OTU_3403	Proteobacteria	Sphingomonadace ae	Altererythrobacter	
OTU_3206	Proteobacteria	Sphingomonadace ae		
OTU_4113	Bacteroidetes	Sphingobacteriace ae	Sphingobacterium	Sphingobacterium_alimentarium
OTU_2017	Bacteroidetes	Sphingobacteriace ae	Sphingobacterium	Sphingobacterium_hotanense
OTU_2299	Bacteroidetes	Sphingobacteriace ae	Sphingobacterium	Sphingobacterium_mizutaii
OTU_3422	Bacteroidetes	Sphingobacteriace	Sphingobacterium	Sphingobacterium_multivorum

		ae		
OTU_3977	Bacteroidetes	Sphingobacteriaceae	Sphingobacterium	Sphingobacterium_sp_Y3L14
		ae		
OTU_2047	Bacteroidetes	Sphingobacteriaceae	Sphingobacterium	
		ae		
OTU_1852	Bacteroidetes	Sphingobacteriaceae	Sphingobacterium	
		ae		
OTU_2524	Bacteroidetes	Sphingobacteriaceae	Solitalea	
		ae		
OTU_3133	Bacteroidetes	Sphingobacteriaceae	Pedobacter	
		ae		
OTU_2241	Bacteroidetes	Sphingobacteriaceae	Pedobacter	
		ae		
OTU_2205	Bacteroidetes	Sphingobacteriaceae	Nubsella	
		ae		
OTU_2337	Actinobacteria	Solirubrobacteraceae	Solirubrobacter	
		ae		

OTU_4604	Actinobacteria	Solirubrobacteraceae	Conexibacter	
OTU_3873	Actinobacteria	Solirubrobacteraceae		
OTU_3930	Proteobacteria	Solimonadaceae	Polycyclovorans	
OTU_3868	Proteobacteria	Solimonadaceae	Alkanibacter	
OTU_4178	Proteobacteria	Solimonadaceae		
OTU_1520	Proteobacteria	Shewanellaceae	Shewanella	Shewanella_algae
OTU_3020	Bacteroidetes	Saprospiraceae	Phaeodactylibacter	Phaeodactylibacter_xiamenensis
OTU_4164	Bacteroidetes	Saprospiraceae		
OTU_2720	Bacteroidetes	Saprospiraceae		
OTU_1623	Bacteroidetes	Saprospiraceae		
OTU_783	Actinobacteria	Sanguibacteraceae	Sanguibacter	
OTU_3906	Proteobacteria	Sandaracinaceae		
OTU_4500	Proteobacteria	Sandaracinaceae		
OTU_3934	Firmicutes	Ruminococcaceae	Subdoligranulum	
OTU_17	Firmicutes	Ruminococcaceae	Subdoligranulum	

OTU_1230	Firmicutes	Ruminococcaceae	Subdoligranulum
OTU_908	Firmicutes	Ruminococcaceae	Subdoligranulum
OTU_1166	Firmicutes	Ruminococcaceae	Sporobacter
OTU_2302	Firmicutes	Ruminococcaceae	Saccharofermentans
OTU_3884	Firmicutes	Ruminococcaceae	Ruminiclostridium
OTU_625	Firmicutes	Ruminococcaceae	Ruminiclostridium
OTU_865	Firmicutes	Ruminococcaceae	Ruminiclostridium
OTU_1511	Firmicutes	Ruminococcaceae	Ruminiclostridium
OTU_3484	Firmicutes	Ruminococcaceae	Ruminiclostridium
OTU_2277	Firmicutes	Ruminococcaceae	Ruminiclostridium
OTU_2708	Firmicutes	Ruminococcaceae	Ruminiclostridium
OTU_1068	Firmicutes	Ruminococcaceae	Ruminiclostridium
OTU_4402	Firmicutes	Ruminococcaceae	Ruminiclostridium
OTU_1935	Firmicutes	Ruminococcaceae	Ruminiclostridium
OTU_338	Firmicutes	Ruminococcaceae	Pygmaibacter
OTU_3470	Firmicutes	Ruminococcaceae	Pygmaibacter
OTU_1548	Firmicutes	Ruminococcaceae	Pseudoflavonifractor

OTU_3326	Firmicutes	Ruminococcaceae	Phocea	
OTU_433	Firmicutes	Ruminococcaceae	Papillibacter	
OTU_1238	Firmicutes	Ruminococcaceae	Papillibacter	
OTU_1435	Firmicutes	Ruminococcaceae	Papillibacter	
OTU_1521	Firmicutes	Ruminococcaceae	Papillibacter	
OTU_518	Firmicutes	Ruminococcaceae	Oscillospira	
OTU_4491	Firmicutes	Ruminococcaceae	Oscillibacter	Oscillibacter_sp_1-3
OTU_2540	Firmicutes	Ruminococcaceae	Oscillibacter	
OTU_1008	Firmicutes	Ruminococcaceae	Oscillibacter	
OTU_2150	Firmicutes	Ruminococcaceae	Oscillibacter	
OTU_1169	Firmicutes	Ruminococcaceae	Oscillibacter	
OTU_3924	Firmicutes	Ruminococcaceae	Oscillibacter	
OTU_3692	Firmicutes	Ruminococcaceae	Oscillibacter	
OTU_4656	Firmicutes	Ruminococcaceae	Oscillibacter	
OTU_1203	Firmicutes	Ruminococcaceae	Oscillibacter	
OTU_214	Firmicutes	Ruminococcaceae	Oscillibacter	
OTU_365	Firmicutes	Ruminococcaceae	Oscillibacter	

OTU_2111	Firmicutes	Ruminococcaceae	Oscillibacter	
OTU_1595	Firmicutes	Ruminococcaceae	Oscillibacter	
OTU_2938	Firmicutes	Ruminococcaceae	Oscillibacter	
OTU_770	Firmicutes	Ruminococcaceae	Oscillibacter	
OTU_430	Firmicutes	Ruminococcaceae	Negativibacillus	
OTU_4227	Firmicutes	Ruminococcaceae	Negativibacillus	
OTU_2374	Firmicutes	Ruminococcaceae	Intestinimonas	
OTU_4534	Firmicutes	Ruminococcaceae	Intestinimonas	
OTU_998	Firmicutes	Ruminococcaceae	Intestinimonas	
OTU_629	Firmicutes	Ruminococcaceae	Intestinimonas	
OTU_265	Firmicutes	Ruminococcaceae	Intestinimonas	
OTU_3280	Firmicutes	Ruminococcaceae	Intestinimonas	
OTU_3592	Firmicutes	Ruminococcaceae	Intestinimonas	
OTU_174	Firmicutes	Ruminococcaceae	Intestinimonas	
OTU_165	Firmicutes	Ruminococcaceae	Intestinimonas	
OTU_3217	Firmicutes	Ruminococcaceae	Hydrogenoanaeroba cterium	Selenomonadales_bacterium_Marseille-P2399

OTU_3759	Firmicutes	Ruminococcaceae	Hydrogenoanaerobacterium
OTU_894	Firmicutes	Ruminococcaceae	Harryflintia
OTU_2918	Firmicutes	Ruminococcaceae	Harryflintia
OTU_1195	Firmicutes	Ruminococcaceae	Harryflintia
OTU_3757	Firmicutes	Ruminococcaceae	Harryflintia
OTU_198	Firmicutes	Ruminococcaceae	Fournierella
OTU_281	Firmicutes	Ruminococcaceae	Flavonifractor
OTU_4415	Firmicutes	Ruminococcaceae	Flavonifractor
OTU_3433	Firmicutes	Ruminococcaceae	Fastidiosipila
OTU_3130	Firmicutes	Ruminococcaceae	Faecalibacterium
OTU_4112	Firmicutes	Ruminococcaceae	Faecalibacterium
OTU_4082	Firmicutes	Ruminococcaceae	Faecalibacterium
OTU_19	Firmicutes	Ruminococcaceae	Faecalibacterium
OTU_4320	Firmicutes	Ruminococcaceae	Faecalibacterium
OTU_1316	Firmicutes	Ruminococcaceae	Caproiciproducens
OTU_3208	Firmicutes	Ruminococcaceae	Caproiciproducens
OTU_855	Firmicutes	Ruminococcaceae	Caproiciproducens

OTU_2527	Firmicutes	Ruminococcaceae	Caproiciproducens	
OTU_4054	Firmicutes	Ruminococcaceae	Caproiciproducens	
OTU_1697	Firmicutes	Ruminococcaceae	Caproiciproducens	
OTU_640	Firmicutes	Ruminococcaceae	Caproiciproducens	
OTU_1734	Firmicutes	Ruminococcaceae	Caproiciproducens	
OTU_2284	Firmicutes	Ruminococcaceae	Caproiciproducens	
OTU_2724	Firmicutes	Ruminococcaceae	Caproiciproducens	
OTU_792	Firmicutes	Ruminococcaceae	Caproiciproducens	
OTU_2038	Firmicutes	Ruminococcaceae	Caproiciproducens	
OTU_4419	Firmicutes	Ruminococcaceae	Caproiciproducens	
OTU_2341	Firmicutes	Ruminococcaceae	Caproiciproducens	
OTU_457	Firmicutes	Ruminococcaceae	Caproiciproducens	
OTU_1802	Firmicutes	Ruminococcaceae	Candidatus	Bittarella_massiliensis
OTU_1808	Firmicutes	Ruminococcaceae	Candidatus	Ruminococcaceae_bacterium_Marseille-P2935
OTU_2704	Firmicutes	Ruminococcaceae	Candidatus	Ruminococcaceae_bacterium_Marseille-P2935
OTU_630	Firmicutes	Ruminococcaceae	Candidatus	
OTU_2428	Firmicutes	Ruminococcaceae	Candidatus	

OTU_4850	Firmicutes	Ruminococcaceae	Candidatus	
OTU_1096	Firmicutes	Ruminococcaceae	Candidatus	
OTU_4883	Firmicutes	Ruminococcaceae	Candidatus	
OTU_2923	Firmicutes	Ruminococcaceae	Candidatus	
OTU_2584	Firmicutes	Ruminococcaceae	Candidatus	
OTU_1531	Firmicutes	Ruminococcaceae	Candidatus	
OTU_1029	Firmicutes	Ruminococcaceae	Candidatus	
OTU_370	Firmicutes	Ruminococcaceae	Butyricoccus	Butyricoccus_pullicaecorum
OTU_4522	Firmicutes	Ruminococcaceae	Butyricoccus	
OTU_3158	Firmicutes	Ruminococcaceae	Butyricoccus	
OTU_1307	Firmicutes	Ruminococcaceae	Butyricoccus	
OTU_1780	Firmicutes	Ruminococcaceae	Butyricoccus	
OTU_1629	Firmicutes	Ruminococcaceae	Butyricoccus	
OTU_1661	Firmicutes	Ruminococcaceae	Butyricoccus	
OTU_2576	Firmicutes	Ruminococcaceae	Butyricoccus	
OTU_1898	Firmicutes	Ruminococcaceae	Butyricoccus	
OTU_850	Firmicutes	Ruminococcaceae	Angelakisella	

OTU_3435	Firmicutes	Ruminococcaceae	Angelakisella	
OTU_3397	Firmicutes	Ruminococcaceae	Angelakisella	
OTU_1377	Firmicutes	Ruminococcaceae	Anaerotruncus	
OTU_1407	Firmicutes	Ruminococcaceae	Anaerotruncus	
OTU_953	Firmicutes	Ruminococcaceae	Anaerotruncus	
OTU_799	Firmicutes	Ruminococcaceae	Anaerotruncus	
OTU_893	Firmicutes	Ruminococcaceae	Anaerofilum	
OTU_345	Firmicutes	Ruminococcaceae	Anaerofilum	
OTU_924	Firmicutes	Ruminococcaceae	Anaerofilum	
OTU_4195	Firmicutes	Ruminococcaceae	Anaerofilum	
OTU_1101	Firmicutes	Ruminococcaceae	Acetanaerobacteriu m	
OTU_2944	Firmicutes	Ruminococcaceae		[Clostridium]_leptum
OTU_895	Firmicutes	Ruminococcaceae		[Clostridium]_papyrosolvens
OTU_4221	Firmicutes	Ruminococcaceae		[Clostridium]_papyrosolvens
OTU_35	Firmicutes	Ruminococcaceae		[Clostridium]_papyrosolvens
OTU_616	Firmicutes	Ruminococcaceae		[Clostridium]_papyrosolvens

OTU_466	Firmicutes	Ruminococcaceae	[Clostridium]_papyrosolvens
OTU_337	Firmicutes	Ruminococcaceae	[Clostridium]_papyrosolvens
OTU_4040	Firmicutes	Ruminococcaceae	[Clostridium]_papyrosolvens
OTU_4432	Firmicutes	Ruminococcaceae	[Clostridium]_papyrosolvens
OTU_4750	Firmicutes	Ruminococcaceae	[Clostridium]_papyrosolvens
OTU_3246	Firmicutes	Ruminococcaceae	bacterium_V9D2012
OTU_1067	Firmicutes	Ruminococcaceae	Carnobacterium_sp_N15MGS-251
OTU_158	Firmicutes	Ruminococcaceae	Clostridiales_bacterium_42_27
OTU_264	Firmicutes	Ruminococcaceae	Clostridiales_bacterium_42_27
OTU_3663	Firmicutes	Ruminococcaceae	Clostridiales_bacterium_42_27
OTU_1553	Firmicutes	Ruminococcaceae	Clostridiales_bacterium_42_27
OTU_1134	Firmicutes	Ruminococcaceae	Clostridiales_bacterium_42_27
OTU_3161	Firmicutes	Ruminococcaceae	Clostridiales_bacterium_canine_oral_taxon_123
OTU_257	Firmicutes	Ruminococcaceae	Clostridiales_bacterium_canine_oral_taxon_123
OTU_2603	Firmicutes	Ruminococcaceae	Clostridiales_bacterium_canine_oral_taxon_123
OTU_1414	Firmicutes	Ruminococcaceae	Clostridiales_bacterium_canine_oral_taxon_123
OTU_3372	Firmicutes	Ruminococcaceae	Clostridiales_bacterium_canine_oral_taxon_123

OTU_36	Firmicutes	Ruminococcaceae	Clostridium_sp_MC_40
OTU_2225	Firmicutes	Ruminococcaceae	Clostridium_sp_MC_40
OTU_754	Firmicutes	Ruminococcaceae	Firmicutes_bacterium_ASF500
OTU_2356	Firmicutes	Ruminococcaceae	Gorbachella_massiliensis
OTU_1145	Firmicutes	Ruminococcaceae	iron-reducing_bacterium_enrichment_culture_cl one_HN-HFO10
OTU_296	Firmicutes	Ruminococcaceae	iron-reducing_bacterium_enrichment_culture_cl one_HN-HFO10
OTU_4809	Firmicutes	Ruminococcaceae	Marseillibacter_massiliensis
OTU_2338	Firmicutes	Ruminococcaceae	Oscillibacter_sp_ER4
OTU_2832	Firmicutes	Ruminococcaceae	rumen_bacterium_NK4A214
OTU_99	Firmicutes	Ruminococcaceae	rumen_bacterium_NK4A214
OTU_1199	Firmicutes	Ruminococcaceae	Ruminiclostridium_sp_KB18
OTU_3569	Firmicutes	Ruminococcaceae	Ruminiclostridium_sp_KB18
OTU_903	Firmicutes	Ruminococcaceae	Ruminococcaceae_bacterium
OTU_2037	Firmicutes	Ruminococcaceae	Ruminococcaceae_bacterium
OTU_1027	Firmicutes	Ruminococcaceae	Ruminococcaceae_bacterium_Marseille-P3738

OTU_901	Firmicutes	Ruminococcaceae	Ruminococcus_bicirculans
OTU_2069	Firmicutes	Ruminococcaceae	Ruminococcus_bromii
OTU_2875	Firmicutes	Ruminococcaceae	Ruminococcus_bromii
OTU_2166	Firmicutes	Ruminococcaceae	Ruminococcus_bromii
OTU_233	Firmicutes	Ruminococcaceae	Ruminococcus_bromii
OTU_1191	Firmicutes	Ruminococcaceae	Ruminococcus_callidus
OTU_2118	Firmicutes	Ruminococcaceae	Ruminococcus_callidus
OTU_3127	Firmicutes	Ruminococcaceae	Ruminococcus_flavefaciens
OTU_2640	Firmicutes	Ruminococcaceae	Ruminococcus_sp_16442
OTU_748	Firmicutes	Ruminococcaceae	Ruminococcus_sp_NK3A76
OTU_182	Firmicutes	Ruminococcaceae	Ruminococcus_sp_YE281
OTU_3393	Firmicutes	Ruminococcaceae	Ruminococcus_sp_YE281
OTU_3796	Firmicutes	Ruminococcaceae	Spirochaetales_bacterium_Spiro_06
OTU_323	Firmicutes	Ruminococcaceae	
OTU_434	Firmicutes	Ruminococcaceae	
OTU_886	Firmicutes	Ruminococcaceae	
OTU_3164	Firmicutes	Ruminococcaceae	

OTU_69	Firmicutes	Ruminococcaceae
OTU_60	Firmicutes	Ruminococcaceae
OTU_3895	Firmicutes	Ruminococcaceae
OTU_256	Firmicutes	Ruminococcaceae
OTU_97	Firmicutes	Ruminococcaceae
OTU_4316	Firmicutes	Ruminococcaceae
OTU_859	Firmicutes	Ruminococcaceae
OTU_535	Firmicutes	Ruminococcaceae
OTU_3521	Firmicutes	Ruminococcaceae
OTU_620	Firmicutes	Ruminococcaceae
OTU_1289	Firmicutes	Ruminococcaceae
OTU_1769	Firmicutes	Ruminococcaceae
OTU_295	Firmicutes	Ruminococcaceae
OTU_3860	Firmicutes	Ruminococcaceae
OTU_2504	Firmicutes	Ruminococcaceae
OTU_3589	Firmicutes	Ruminococcaceae
OTU_41	Firmicutes	Ruminococcaceae

OTU_4127	Firmicutes	Ruminococcaceae
OTU_4619	Firmicutes	Ruminococcaceae
OTU_4831	Firmicutes	Ruminococcaceae
OTU_2198	Firmicutes	Ruminococcaceae
OTU_1515	Firmicutes	Ruminococcaceae
OTU_678	Firmicutes	Ruminococcaceae
OTU_498	Firmicutes	Ruminococcaceae
OTU_1732	Firmicutes	Ruminococcaceae
OTU_817	Firmicutes	Ruminococcaceae
OTU_2679	Firmicutes	Ruminococcaceae
OTU_1711	Firmicutes	Ruminococcaceae
OTU_282	Firmicutes	Ruminococcaceae
OTU_2668	Firmicutes	Ruminococcaceae
OTU_85	Firmicutes	Ruminococcaceae
OTU_4712	Firmicutes	Ruminococcaceae
OTU_251	Firmicutes	Ruminococcaceae
OTU_1425	Firmicutes	Ruminococcaceae

OTU_1899	Firmicutes	Ruminococcaceae
OTU_1525	Firmicutes	Ruminococcaceae
OTU_3834	Firmicutes	Ruminococcaceae
OTU_2260	Firmicutes	Ruminococcaceae
OTU_2002	Firmicutes	Ruminococcaceae
OTU_3285	Firmicutes	Ruminococcaceae
OTU_213	Firmicutes	Ruminococcaceae
OTU_364	Firmicutes	Ruminococcaceae
OTU_4089	Firmicutes	Ruminococcaceae
OTU_3597	Firmicutes	Ruminococcaceae
OTU_1606	Firmicutes	Ruminococcaceae
OTU_1118	Firmicutes	Ruminococcaceae
OTU_2816	Firmicutes	Ruminococcaceae
OTU_4662	Firmicutes	Ruminococcaceae
OTU_3724	Firmicutes	Ruminococcaceae
OTU_2108	Firmicutes	Ruminococcaceae
OTU_4342	Firmicutes	Ruminococcaceae

OTU_139	Firmicutes	Ruminococcaceae
OTU_1041	Firmicutes	Ruminococcaceae
OTU_1049	Firmicutes	Ruminococcaceae
OTU_2883	Firmicutes	Ruminococcaceae
OTU_2659	Firmicutes	Ruminococcaceae
OTU_3999	Firmicutes	Ruminococcaceae
OTU_4007	Firmicutes	Ruminococcaceae
OTU_2587	Firmicutes	Ruminococcaceae
OTU_4503	Firmicutes	Ruminococcaceae
OTU_4211	Firmicutes	Ruminococcaceae
OTU_1119	Firmicutes	Ruminococcaceae
OTU_188	Firmicutes	Ruminococcaceae
OTU_1689	Firmicutes	Ruminococcaceae
OTU_80	Firmicutes	Ruminococcaceae
OTU_3088	Firmicutes	Ruminococcaceae
OTU_898	Firmicutes	Ruminococcaceae
OTU_329	Firmicutes	Ruminococcaceae

OTU_897	Firmicutes	Ruminococcaceae
OTU_3225	Firmicutes	Ruminococcaceae
OTU_1488	Firmicutes	Ruminococcaceae
OTU_1485	Firmicutes	Ruminococcaceae
OTU_248	Firmicutes	Ruminococcaceae
OTU_101	Firmicutes	Ruminococcaceae
OTU_247	Firmicutes	Ruminococcaceae
OTU_1151	Firmicutes	Ruminococcaceae
OTU_1152	Firmicutes	Ruminococcaceae
OTU_1153	Firmicutes	Ruminococcaceae
OTU_766	Firmicutes	Ruminococcaceae
OTU_3881	Firmicutes	Ruminococcaceae
OTU_1030	Firmicutes	Ruminococcaceae
OTU_760	Firmicutes	Ruminococcaceae
OTU_959	Firmicutes	Ruminococcaceae
OTU_1322	Firmicutes	Ruminococcaceae
OTU_395	Firmicutes	Ruminococcaceae

OTU_1921	Firmicutes	Ruminococcaceae
OTU_1920	Firmicutes	Ruminococcaceae
OTU_1925	Firmicutes	Ruminococcaceae
OTU_2024	Firmicutes	Ruminococcaceae
OTU_2140	Firmicutes	Ruminococcaceae
OTU_2147	Firmicutes	Ruminococcaceae
OTU_2144	Firmicutes	Ruminococcaceae
OTU_552	Firmicutes	Ruminococcaceae
OTU_3783	Firmicutes	Ruminococcaceae
OTU_4523	Firmicutes	Ruminococcaceae
OTU_3300	Firmicutes	Ruminococcaceae
OTU_4246	Firmicutes	Ruminococcaceae
OTU_517	Firmicutes	Ruminococcaceae
OTU_515	Firmicutes	Ruminococcaceae
OTU_3239	Firmicutes	Ruminococcaceae
OTU_3549	Firmicutes	Ruminococcaceae
OTU_2960	Firmicutes	Ruminococcaceae

OTU_2963	Firmicutes	Ruminococcaceae
OTU_421	Firmicutes	Ruminococcaceae
OTU_22	Firmicutes	Ruminococcaceae
OTU_759	Firmicutes	Ruminococcaceae
OTU_1144	Firmicutes	Ruminococcaceae
OTU_3896	Firmicutes	Ruminococcaceae
OTU_1002	Firmicutes	Ruminococcaceae
OTU_2212	Firmicutes	Ruminococcaceae
OTU_1310	Firmicutes	Ruminococcaceae
OTU_1955	Firmicutes	Ruminococcaceae
OTU_2751	Firmicutes	Ruminococcaceae
OTU_1562	Firmicutes	Ruminococcaceae
OTU_2376	Firmicutes	Ruminococcaceae
OTU_2157	Firmicutes	Ruminococcaceae
OTU_3156	Firmicutes	Ruminococcaceae
OTU_743	Firmicutes	Ruminococcaceae
OTU_529	Firmicutes	Ruminococcaceae

OTU_2795	Firmicutes	Ruminococcaceae
OTU_56	Firmicutes	Ruminococcaceae
OTU_1793	Firmicutes	Ruminococcaceae
OTU_181	Firmicutes	Ruminococcaceae
OTU_4641	Firmicutes	Ruminococcaceae
OTU_1772	Firmicutes	Ruminococcaceae
OTU_2803	Firmicutes	Ruminococcaceae
OTU_2639	Firmicutes	Ruminococcaceae
OTU_1018	Firmicutes	Ruminococcaceae
OTU_1308	Firmicutes	Ruminococcaceae
OTU_1305	Firmicutes	Ruminococcaceae
OTU_1438	Firmicutes	Ruminococcaceae
OTU_187	Firmicutes	Ruminococcaceae
OTU_1940	Firmicutes	Ruminococcaceae
OTU_4754	Firmicutes	Ruminococcaceae
OTU_2301	Firmicutes	Ruminococcaceae
OTU_3478	Firmicutes	Ruminococcaceae

OTU_1646	Firmicutes	Ruminococcaceae
OTU_2411	Firmicutes	Ruminococcaceae
OTU_2413	Firmicutes	Ruminococcaceae
OTU_2632	Firmicutes	Ruminococcaceae
OTU_3325	Firmicutes	Ruminococcaceae
OTU_1785	Firmicutes	Ruminococcaceae
OTU_1547	Firmicutes	Ruminococcaceae
OTU_1544	Firmicutes	Ruminococcaceae
OTU_4252	Firmicutes	Ruminococcaceae
OTU_3214	Firmicutes	Ruminococcaceae
OTU_3218	Firmicutes	Ruminococcaceae
OTU_4490	Firmicutes	Ruminococcaceae
OTU_449	Firmicutes	Ruminococcaceae
OTU_446	Firmicutes	Ruminococcaceae
OTU_1621	Firmicutes	Ruminococcaceae
OTU_949	Firmicutes	Ruminococcaceae
OTU_4672	Firmicutes	Ruminococcaceae

OTU_4670	Firmicutes	Ruminococcaceae
OTU_4100	Firmicutes	Ruminococcaceae
OTU_4105	Firmicutes	Ruminococcaceae
OTU_1168	Firmicutes	Ruminococcaceae
OTU_1164	Firmicutes	Ruminococcaceae
OTU_1167	Firmicutes	Ruminococcaceae
OTU_1163	Firmicutes	Ruminococcaceae
OTU_1765	Firmicutes	Ruminococcaceae
OTU_867	Firmicutes	Ruminococcaceae
OTU_1376	Firmicutes	Ruminococcaceae
OTU_1201	Firmicutes	Ruminococcaceae
OTU_1209	Firmicutes	Ruminococcaceae
OTU_1978	Firmicutes	Ruminococcaceae
OTU_2089	Firmicutes	Ruminococcaceae
OTU_2087	Firmicutes	Ruminococcaceae
OTU_2086	Firmicutes	Ruminococcaceae
OTU_2317	Firmicutes	Ruminococcaceae

OTU_2312	Firmicutes	Ruminococcaceae
OTU_3738	Firmicutes	Ruminococcaceae
OTU_3739	Firmicutes	Ruminococcaceae
OTU_2531	Firmicutes	Ruminococcaceae
OTU_3451	Firmicutes	Ruminococcaceae
OTU_2400	Firmicutes	Ruminococcaceae
OTU_2406	Firmicutes	Ruminococcaceae
OTU_2404	Firmicutes	Ruminococcaceae
OTU_503	Firmicutes	Ruminococcaceae
OTU_4802	Firmicutes	Ruminococcaceae
OTU_4805	Firmicutes	Ruminococcaceae
OTU_628	Firmicutes	Ruminococcaceae
OTU_612	Firmicutes	Ruminococcaceae
OTU_3265	Firmicutes	Ruminococcaceae
OTU_3267	Firmicutes	Ruminococcaceae
OTU_3268	Firmicutes	Ruminococcaceae
OTU_1682	Firmicutes	Ruminococcaceae

OTU_1683	Firmicutes	Ruminococcaceae
OTU_4663	Firmicutes	Ruminococcaceae
OTU_4665	Firmicutes	Ruminococcaceae
OTU_3466	Firmicutes	Ruminococcaceae
OTU_4117	Firmicutes	Ruminococcaceae
OTU_871	Firmicutes	Ruminococcaceae
OTU_3583	Firmicutes	Ruminococcaceae
OTU_2943	Firmicutes	Ruminococcaceae
OTU_2861	Firmicutes	Ruminococcaceae
OTU_4372	Firmicutes	Ruminococcaceae
OTU_1056	Firmicutes	Ruminococcaceae
OTU_1020	Firmicutes	Ruminococcaceae
OTU_4370	Firmicutes	Ruminococcaceae
OTU_986	Firmicutes	Ruminococcaceae
OTU_957	Firmicutes	Ruminococcaceae
OTU_2369	Firmicutes	Ruminococcaceae
OTU_1988	Firmicutes	Ruminococcaceae

OTU_1983	Firmicutes	Ruminococcaceae
OTU_1980	Firmicutes	Ruminococcaceae
OTU_2327	Firmicutes	Ruminococcaceae
OTU_690	Firmicutes	Ruminococcaceae
OTU_3128	Firmicutes	Ruminococcaceae
OTU_2430	Firmicutes	Ruminococcaceae
OTU_3398	Firmicutes	Ruminococcaceae
OTU_2619	Firmicutes	Ruminococcaceae
OTU_4873	Firmicutes	Ruminococcaceae
OTU_29	Firmicutes	Ruminococcaceae
OTU_603	Firmicutes	Ruminococcaceae
OTU_3587	Firmicutes	Ruminococcaceae
OTU_3272	Firmicutes	Ruminococcaceae
OTU_280	Firmicutes	Ruminococcaceae
OTU_287	Firmicutes	Ruminococcaceae
OTU_3279	Firmicutes	Ruminococcaceae
OTU_269	Firmicutes	Ruminococcaceae

OTU_4614	Firmicutes	Ruminococcaceae
OTU_3476	Firmicutes	Ruminococcaceae
OTU_4618	Firmicutes	Ruminococcaceae
OTU_3472	Firmicutes	Ruminococcaceae
OTU_1183	Firmicutes	Ruminococcaceae
OTU_1184	Firmicutes	Ruminococcaceae
OTU_1188	Firmicutes	Ruminococcaceae
OTU_1746	Firmicutes	Ruminococcaceae
OTU_3622	Firmicutes	Ruminococcaceae
OTU_1353	Firmicutes	Ruminococcaceae
OTU_967	Firmicutes	Ruminococcaceae
OTU_1830	Firmicutes	Ruminococcaceae
OTU_4834	Firmicutes	Ruminococcaceae
OTU_2335	Firmicutes	Ruminococcaceae
OTU_2333	Firmicutes	Ruminococcaceae
OTU_2199	Firmicutes	Ruminococcaceae
OTU_2426	Firmicutes	Ruminococcaceae

OTU_159	Firmicutes	Ruminococcaceae
OTU_1859	Firmicutes	Ruminococcaceae
OTU_2604	Firmicutes	Ruminococcaceae
OTU_4596	Firmicutes	Ruminococcaceae
OTU_1519	Firmicutes	Ruminococcaceae
OTU_679	Firmicutes	Ruminococcaceae
OTU_331	Firmicutes	Ruminococcaceae
OTU_4264	Firmicutes	Ruminococcaceae
OTU_4465	Firmicutes	Ruminococcaceae
OTU_4469	Firmicutes	Ruminococcaceae
OTU_494	Firmicutes	Ruminococcaceae
OTU_1421	Firmicutes	Ruminococcaceae
OTU_252	Firmicutes	Ruminococcaceae
OTU_255	Firmicutes	Ruminococcaceae
OTU_1428	Firmicutes	Ruminococcaceae
OTU_701	Firmicutes	Ruminococcaceae
OTU_728	Firmicutes	Ruminococcaceae

OTU_3485	Firmicutes	Ruminococcaceae
OTU_4138	Firmicutes	Ruminococcaceae
OTU_812	Firmicutes	Ruminococcaceae
OTU_922	Firmicutes	Ruminococcaceae
OTU_921	Firmicutes	Ruminococcaceae
OTU_1341	Firmicutes	Ruminococcaceae
OTU_1342	Firmicutes	Ruminococcaceae
OTU_3548	Firmicutes	Ruminococcaceae
OTU_3113	Firmicutes	Ruminococcaceae
OTU_1270	Firmicutes	Ruminococcaceae
OTU_4016	Firmicutes	Ruminococcaceae
OTU_4012	Firmicutes	Ruminococcaceae
OTU_836	Firmicutes	Ruminococcaceae
OTU_833	Firmicutes	Ruminococcaceae
OTU_2076	Firmicutes	Ruminococcaceae
OTU_2070	Firmicutes	Ruminococcaceae
OTU_3654	Firmicutes	Ruminococcaceae

OTU_668	Firmicutes	Ruminococcaceae
OTU_3251	Firmicutes	Ruminococcaceae
OTU_3432	Firmicutes	Ruminococcaceae
OTU_4451	Firmicutes	Ruminococcaceae
OTU_4337	Firmicutes	Ruminococcaceae
OTU_484	Firmicutes	Ruminococcaceae
OTU_487	Firmicutes	Ruminococcaceae
OTU_714	Firmicutes	Ruminococcaceae
OTU_717	Firmicutes	Ruminococcaceae
OTU_4630	Firmicutes	Ruminococcaceae
OTU_4636	Firmicutes	Ruminococcaceae
OTU_4635	Firmicutes	Ruminococcaceae
OTU_4652	Firmicutes	Ruminococcaceae
OTU_805	Firmicutes	Ruminococcaceae
OTU_1659	Firmicutes	Ruminococcaceae
OTU_1657	Firmicutes	Ruminococcaceae
OTU_2048	Firmicutes	Ruminococcaceae

OTU_1976	Firmicutes	Ruminococcaceae
OTU_3750	Firmicutes	Ruminococcaceae
OTU_1083	Firmicutes	Ruminococcaceae
OTU_1081	Firmicutes	Ruminococcaceae
OTU_1085	Firmicutes	Ruminococcaceae
OTU_1889	Firmicutes	Ruminococcaceae
OTU_1390	Firmicutes	Ruminococcaceae
OTU_1865	Firmicutes	Ruminococcaceae
OTU_2445	Firmicutes	Ruminococcaceae
OTU_2667	Firmicutes	Ruminococcaceae
OTU_4844	Firmicutes	Ruminococcaceae
OTU_3625	Firmicutes	Ruminococcaceae
OTU_123	Firmicutes	Ruminococcaceae
OTU_3538	Firmicutes	Ruminococcaceae
OTU_1403	Firmicutes	Ruminococcaceae
OTU_1400	Firmicutes	Ruminococcaceae
OTU_4624	Firmicutes	Ruminococcaceae

OTU_4622	Firmicutes	Ruminococcaceae
OTU_4718	Firmicutes	Ruminococcaceae
OTU_4281	Firmicutes	Ruminococcaceae
OTU_4287	Firmicutes	Ruminococcaceae
OTU_4285	Firmicutes	Ruminococcaceae
OTU_315	Firmicutes	Ruminococcaceae
OTU_1258	Firmicutes	Ruminococcaceae
OTU_1256	Firmicutes	Ruminococcaceae
OTU_1092	Firmicutes	Ruminococcaceae
OTU_3423	Firmicutes	Ruminococcaceae
OTU_1384	Firmicutes	Ruminococcaceae
OTU_2389	Firmicutes	Ruminococcaceae
OTU_1874	Firmicutes	Ruminococcaceae
OTU_2471	Firmicutes	Ruminococcaceae
OTU_2275	Firmicutes	Ruminococcaceae
OTU_2490	Firmicutes	Ruminococcaceae
OTU_2494	Firmicutes	Ruminococcaceae

OTU_3386	Firmicutes	Ruminococcaceae
OTU_2722	Firmicutes	Ruminococcaceae
OTU_3705	Firmicutes	Ruminococcaceae
OTU_732	Firmicutes	Ruminococcaceae
OTU_730	Firmicutes	Ruminococcaceae
OTU_1413	Firmicutes	Ruminococcaceae
OTU_738	Firmicutes	Ruminococcaceae
OTU_1416	Firmicutes	Ruminococcaceae
OTU_227	Firmicutes	Ruminococcaceae
OTU_4385	Firmicutes	Ruminococcaceae
OTU_333	Firmicutes	Ruminococcaceae
OTU_4891	Firmicutes	Ruminococcaceae
OTU_1736	Firmicutes	Ruminococcaceae
OTU_4768	Firmicutes	Ruminococcaceae
OTU_838	Firmicutes	Ruminococcaceae
OTU_3682	Firmicutes	Ruminococcaceae
OTU_33	Firmicutes	Ruminococcaceae

OTU_3630	Firmicutes	Ruminococcaceae
OTU_4736	Firmicutes	Ruminococcaceae
OTU_4735	Firmicutes	Ruminococcaceae
OTU_72	Firmicutes	Ruminococcaceae
OTU_1062	Firmicutes	Ruminococcaceae
OTU_3468	Firmicutes	Ruminococcaceae
OTU_382	Firmicutes	Ruminococcaceae
OTU_381	Firmicutes	Ruminococcaceae
OTU_1951	Firmicutes	Ruminococcaceae
OTU_201	Firmicutes	Ruminococcaceae
OTU_2262	Firmicutes	Ruminococcaceae
OTU_2266	Firmicutes	Ruminococcaceae
OTU_1282	Firmicutes	Ruminococcaceae
OTU_2268	Firmicutes	Ruminococcaceae
OTU_1649	Firmicutes	Ruminococcaceae
OTU_2486	Firmicutes	Ruminococcaceae
OTU_120	Firmicutes	Ruminococcaceae

OTU_2001	Firmicutes	Ruminococcaceae
OTU_4426	Firmicutes	Ruminococcaceae
OTU_4420	Firmicutes	Ruminococcaceae
OTU_3737	Firmicutes	Ruminococcaceae
OTU_2644	Firmicutes	Ruminococcaceae
OTU_211	Firmicutes	Ruminococcaceae
OTU_3516	Firmicutes	Ruminococcaceae
OTU_1877	Firmicutes	Ruminococcaceae
OTU_580	Firmicutes	Ruminococcaceae
OTU_582	Firmicutes	Ruminococcaceae
OTU_589	Firmicutes	Ruminococcaceae
OTU_588	Firmicutes	Ruminococcaceae
OTU_4399	Firmicutes	Ruminococcaceae
OTU_4550	Firmicutes	Ruminococcaceae
OTU_2862	Firmicutes	Ruminococcaceae
OTU_4176	Firmicutes	Ruminococcaceae
OTU_1604	Firmicutes	Ruminococcaceae

OTU_4174	Firmicutes	Ruminococcaceae
OTU_4065	Firmicutes	Ruminococcaceae
OTU_4813	Firmicutes	Ruminococcaceae
OTU_4123	Firmicutes	Ruminococcaceae
OTU_2815	Firmicutes	Ruminococcaceae
OTU_89	Firmicutes	Ruminococcaceae
OTU_1681	Firmicutes	Ruminococcaceae
OTU_1274	Firmicutes	Ruminococcaceae
OTU_1278	Firmicutes	Ruminococcaceae
OTU_1850	Firmicutes	Ruminococcaceae
OTU_680	Firmicutes	Ruminococcaceae
OTU_3034	Firmicutes	Ruminococcaceae
OTU_3032	Firmicutes	Ruminococcaceae
OTU_1847	Firmicutes	Ruminococcaceae
OTU_2745	Firmicutes	Ruminococcaceae
OTU_2741	Firmicutes	Ruminococcaceae
OTU_210	Firmicutes	Ruminococcaceae

OTU_2104	Firmicutes	Ruminococcaceae
OTU_2102	Firmicutes	Ruminococcaceae
OTU_2100	Firmicutes	Ruminococcaceae
OTU_3502	Firmicutes	Ruminococcaceae
OTU_3507	Firmicutes	Ruminococcaceae
OTU_208	Firmicutes	Ruminococcaceae
OTU_598	Firmicutes	Ruminococcaceae
OTU_3010	Firmicutes	Ruminococcaceae
OTU_1677	Firmicutes	Ruminococcaceae
OTU_824	Firmicutes	Ruminococcaceae
OTU_3348	Firmicutes	Ruminococcaceae
OTU_4343	Firmicutes	Ruminococcaceae
OTU_758	Firmicutes	Ruminococcaceae
OTU_377	Firmicutes	Ruminococcaceae
OTU_372	Firmicutes	Ruminococcaceae
OTU_371	Firmicutes	Ruminococcaceae
OTU_688	Firmicutes	Ruminococcaceae

OTU_4745	Firmicutes	Ruminococcaceae
OTU_1339	Firmicutes	Ruminococcaceae
OTU_807	Firmicutes	Ruminococcaceae
OTU_2922	Firmicutes	Ruminococcaceae
OTU_1523	Firmicutes	Ruminococcaceae
OTU_1522	Firmicutes	Ruminococcaceae
OTU_4181	Firmicutes	Ruminococcaceae
OTU_3344	Firmicutes	Ruminococcaceae
OTU_1617	Firmicutes	Ruminococcaceae
OTU_2885	Firmicutes	Ruminococcaceae
OTU_1042	Firmicutes	Ruminococcaceae
OTU_3331	Firmicutes	Ruminococcaceae
OTU_1453	Firmicutes	Ruminococcaceae
OTU_2245	Firmicutes	Ruminococcaceae
OTU_2655	Firmicutes	Ruminococcaceae
OTU_2755	Firmicutes	Ruminococcaceae
OTU_4408	Firmicutes	Ruminococcaceae

OTU_4406	Firmicutes	Ruminococcaceae
OTU_3579	Firmicutes	Ruminococcaceae
OTU_567	Firmicutes	Ruminococcaceae
OTU_92	Firmicutes	Ruminococcaceae
OTU_3377	Firmicutes	Ruminococcaceae
OTU_3374	Firmicutes	Ruminococcaceae
OTU_3371	Firmicutes	Ruminococcaceae
OTU_4350	Firmicutes	Ruminococcaceae
OTU_2176	Firmicutes	Ruminococcaceae
OTU_626	Firmicutes	Ruminococcaceae
OTU_2939	Firmicutes	Ruminococcaceae
OTU_789	Firmicutes	Ruminococcaceae
OTU_4197	Firmicutes	Ruminococcaceae
OTU_4541	Firmicutes	Ruminococcaceae
OTU_1133	Firmicutes	Ruminococcaceae
OTU_3104	Firmicutes	Ruminococcaceae
OTU_1053	Firmicutes	Ruminococcaceae

OTU_1055	Firmicutes	Ruminococcaceae
OTU_1057	Firmicutes	Ruminococcaceae
OTU_1442	Firmicutes	Ruminococcaceae
OTU_3919	Firmicutes	Ruminococcaceae
OTU_81	Firmicutes	Ruminococcaceae
OTU_3910	Firmicutes	Ruminococcaceae
OTU_4004	Firmicutes	Ruminococcaceae
OTU_3978	Firmicutes	Ruminococcaceae
OTU_3970	Firmicutes	Ruminococcaceae
OTU_4009	Firmicutes	Ruminococcaceae
OTU_1835	Firmicutes	Ruminococcaceae
OTU_2238	Firmicutes	Ruminococcaceae
OTU_1904	Firmicutes	Ruminococcaceae
OTU_1909	Firmicutes	Ruminococcaceae
OTU_2295	Firmicutes	Ruminococcaceae
OTU_3522	Firmicutes	Ruminococcaceae
OTU_1444	Firmicutes	Ruminococcaceae

OTU_2586	Firmicutes	Ruminococcaceae
OTU_2956	Firmicutes	Ruminococcaceae
OTU_2343	Firmicutes	Ruminococcaceae
OTU_962	Firmicutes	Ruminococcaceae
OTU_204	Firmicutes	Ruminococcaceae
OTU_220	Firmicutes	Ruminococcaceae
OTU_3181	Firmicutes	Ruminococcaceae
OTU_3566	Firmicutes	Ruminococcaceae
OTU_4509	Firmicutes	Ruminococcaceae
OTU_4765	Firmicutes	Ruminococcaceae
OTU_4507	Firmicutes	Ruminococcaceae
OTU_4321	Firmicutes	Ruminococcaceae
OTU_4323	Firmicutes	Ruminococcaceae
OTU_1580	Firmicutes	Ruminococcaceae
OTU_4212	Firmicutes	Ruminococcaceae
OTU_4216	Firmicutes	Ruminococcaceae
OTU_2899	Firmicutes	Ruminococcaceae

OTU_4034	Firmicutes	Ruminococcaceae
OTU_2907	Firmicutes	Ruminococcaceae
OTU_795	Firmicutes	Ruminococcaceae
OTU_797	Firmicutes	Ruminococcaceae
OTU_2173	Firmicutes	Ruminococcaceae
OTU_3983	Firmicutes	Ruminococcaceae
OTU_1966	Firmicutes	Ruminococcaceae
OTU_1960	Firmicutes	Ruminococcaceae
OTU_1535	Firmicutes	Ruminococcaceae
OTU_3653	Firmicutes	Ruminococcaceae
OTU_774	Firmicutes	Ruminococcaceae
OTU_3657	Firmicutes	Ruminococcaceae
OTU_3658	Firmicutes	Ruminococcaceae
OTU_2702	Firmicutes	Ruminococcaceae
OTU_2703	Firmicutes	Ruminococcaceae
OTU_1539	Firmicutes	Ruminococcaceae
OTU_1331	Firmicutes	Ruminococcaceae

OTU_3969	Firmicutes	Ruminococcaceae	
OTU_1679	Firmicutes	Ruminococcaceae	
OTU_451	Firmicutes	Ruminococcaceae	
OTU_3876	Firmicutes	Ruminococcaceae	
OTU_1773	Firmicutes	Ruminococcaceae	
OTU_2221	Firmicutes	Ruminococcaceae	
OTU_1936	Firmicutes	Ruminococcaceae	
OTU_1933	Firmicutes	Ruminococcaceae	
OTU_2802	Firmicutes	Ruminococcaceae	
OTU_1648	Firmicutes	Ruminococcaceae	
OTU_3793	Firmicutes	Ruminococcaceae	
OTU_644	Firmicutes	Ruminococcaceae	
OTU_4688	Firmicutes	Ruminococcaceae	
OTU_4682	Firmicutes	Ruminococcaceae	
OTU_145	Firmicutes	Ruminococcaceae	
OTU_3904	Verrucomicrobi a	Rubritaleaceae	Luteolibacter

OTU_2974	Verrucomicrobi a	Rubritaleaceae		
OTU_2207	Chloroflexi	Roseiflexaceae		
OTU_3903	Chloroflexi	Roseiflexaceae		
OTU_4371	Chloroflexi	Roseiflexaceae		
OTU_4188	Chloroflexi	Roseiflexaceae		
OTU_4758	Chloroflexi	Roseiflexaceae		
OTU_767	Bacteroidetes	Rikenellaceae	Rikenella	
OTU_1009	Bacteroidetes	Rikenellaceae	Rikenella	
OTU_1427	Bacteroidetes	Rikenellaceae	Rikenella	
OTU_1861	Bacteroidetes	Rikenellaceae	Rikenella	
OTU_4240	Bacteroidetes	Rikenellaceae	Rikenella	
OTU_765	Bacteroidetes	Rikenellaceae	Alistipes	Alistipes_finegoldii
OTU_573	Bacteroidetes	Rikenellaceae	Alistipes	Alistipes_indistinctus
OTU_2901	Bacteroidetes	Rikenellaceae	Alistipes	Alistipes_onderdonkii
OTU_4379	Bacteroidetes	Rikenellaceae	Alistipes	Alistipes_shahii
OTU_896	Bacteroidetes	Rikenellaceae	Alistipes	Faecalibacterium_prausnitzii

OTU_499	Bacteroidetes	Rikenellaceae	Alistipes	Faecalibacterium_prausnitzii
OTU_1356	Bacteroidetes	Rikenellaceae	Alistipes	Tidjanibacter_massiliensis
OTU_328	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_2915	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_2059	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_2379	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_2372	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_59	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_407	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_534	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_2637	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_4675	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_2537	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_1573	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_294	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_274	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_2864	Bacteroidetes	Rikenellaceae	Alistipes	

OTU_2431	Bacteroidetes	Rikenellaceae	Alistipes
OTU_3352	Bacteroidetes	Rikenellaceae	Alistipes
OTU_4130	Bacteroidetes	Rikenellaceae	Alistipes
OTU_830	Bacteroidetes	Rikenellaceae	Alistipes
OTU_2075	Bacteroidetes	Rikenellaceae	Alistipes
OTU_575	Bacteroidetes	Rikenellaceae	Alistipes
OTU_2066	Bacteroidetes	Rikenellaceae	Alistipes
OTU_721	Bacteroidetes	Rikenellaceae	Alistipes
OTU_154	Bacteroidetes	Rikenellaceae	Alistipes
OTU_1409	Bacteroidetes	Rikenellaceae	Alistipes
OTU_387	Bacteroidetes	Rikenellaceae	Alistipes
OTU_2491	Bacteroidetes	Rikenellaceae	Alistipes
OTU_4433	Bacteroidetes	Rikenellaceae	Alistipes
OTU_224	Bacteroidetes	Rikenellaceae	Alistipes
OTU_367	Bacteroidetes	Rikenellaceae	Alistipes
OTU_1601	Bacteroidetes	Rikenellaceae	Alistipes
OTU_163	Bacteroidetes	Rikenellaceae	Alistipes

OTU_593	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_3614	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_3613	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_1831	Bacteroidetes	Rikenellaceae	Alistipes	
OTU_3858	Bacteroidetes	Rikenellaceae		Bacteroidales_bacterium_RM71
OTU_2914	Bacteroidetes	Rikenellaceae		
OTU_241	Bacteroidetes	Rikenellaceae		
OTU_681	Bacteroidetes	Rikenellaceae		
OTU_1816	Bacteroidetes	Rikenellaceae		
OTU_1312	Bacteroidetes	Rikenellaceae		
OTU_4588	Bacteroidetes	Rikenellaceae		
OTU_4226	Bacteroidetes	Rikenellaceae		
OTU_2977	Bacteroidetes	Rikenellaceae		
OTU_4495	Bacteroidetes	Rikenellaceae		
OTU_2630	Bacteroidetes	Rikenellaceae		
OTU_77	Bacteroidetes	Rikenellaceae		
OTU_607	Bacteroidetes	Rikenellaceae		

OTU_506	Bacteroidetes	Rikenellaceae
OTU_3047	Bacteroidetes	Rikenellaceae
OTU_197	Bacteroidetes	Rikenellaceae
OTU_3264	Bacteroidetes	Rikenellaceae
OTU_273	Bacteroidetes	Rikenellaceae
OTU_4667	Bacteroidetes	Rikenellaceae
OTU_1198	Bacteroidetes	Rikenellaceae
OTU_2184	Bacteroidetes	Rikenellaceae
OTU_2618	Bacteroidetes	Rikenellaceae
OTU_28	Bacteroidetes	Rikenellaceae
OTU_4679	Bacteroidetes	Rikenellaceae
OTU_267	Bacteroidetes	Rikenellaceae
OTU_3474	Bacteroidetes	Rikenellaceae
OTU_861	Bacteroidetes	Rikenellaceae
OTU_2507	Bacteroidetes	Rikenellaceae
OTU_1352	Bacteroidetes	Rikenellaceae
OTU_3065	Bacteroidetes	Rikenellaceae

OTU_2045	Bacteroidetes	Rikenellaceae
OTU_2583	Bacteroidetes	Rikenellaceae
OTU_2783	Bacteroidetes	Rikenellaceae
OTU_1735	Bacteroidetes	Rikenellaceae
OTU_3076	Bacteroidetes	Rikenellaceae
OTU_669	Bacteroidetes	Rikenellaceae
OTU_108	Bacteroidetes	Rikenellaceae
OTU_3490	Bacteroidetes	Rikenellaceae
OTU_4654	Bacteroidetes	Rikenellaceae
OTU_937	Bacteroidetes	Rikenellaceae
OTU_2517	Bacteroidetes	Rikenellaceae
OTU_3813	Bacteroidetes	Rikenellaceae
OTU_4840	Bacteroidetes	Rikenellaceae
OTU_653	Bacteroidetes	Rikenellaceae
OTU_4440	Bacteroidetes	Rikenellaceae
OTU_2845	Bacteroidetes	Rikenellaceae
OTU_1660	Bacteroidetes	Rikenellaceae

OTU_2650	Bacteroidetes	Rikenellaceae
OTU_2386	Bacteroidetes	Rikenellaceae
OTU_3019	Bacteroidetes	Rikenellaceae
OTU_3947	Bacteroidetes	Rikenellaceae
OTU_2621	Bacteroidetes	Rikenellaceae
OTU_4202	Bacteroidetes	Rikenellaceae
OTU_3687	Bacteroidetes	Rikenellaceae
OTU_1061	Bacteroidetes	Rikenellaceae
OTU_2393	Bacteroidetes	Rikenellaceae
OTU_1842	Bacteroidetes	Rikenellaceae
OTU_2996	Bacteroidetes	Rikenellaceae
OTU_4425	Bacteroidetes	Rikenellaceae
OTU_4376	Bacteroidetes	Rikenellaceae
OTU_3794	Bacteroidetes	Rikenellaceae
OTU_1605	Bacteroidetes	Rikenellaceae
OTU_2801	Bacteroidetes	Rikenellaceae
OTU_3670	Bacteroidetes	Rikenellaceae

OTU_160	Bacteroidetes	Rikenellaceae
OTU_3462	Bacteroidetes	Rikenellaceae
OTU_3720	Bacteroidetes	Rikenellaceae
OTU_1454	Bacteroidetes	Rikenellaceae
OTU_2886	Bacteroidetes	Rikenellaceae
OTU_4532	Bacteroidetes	Rikenellaceae
OTU_117	Bacteroidetes	Rikenellaceae
OTU_2112	Bacteroidetes	Rikenellaceae
OTU_4798	Bacteroidetes	Rikenellaceae
OTU_3375	Bacteroidetes	Rikenellaceae
OTU_3401	Bacteroidetes	Rikenellaceae
OTU_308	Bacteroidetes	Rikenellaceae
OTU_4759	Bacteroidetes	Rikenellaceae
OTU_1627	Bacteroidetes	Rikenellaceae
OTU_2359	Bacteroidetes	Rikenellaceae
OTU_354	Bacteroidetes	Rikenellaceae
OTU_2344	Bacteroidetes	Rikenellaceae

OTU_3745	Bacteroidetes	Rikenellaceae		
OTU_2690	Bacteroidetes	Rikenellaceae		
OTU_3561	Bacteroidetes	Rikenellaceae		
OTU_1128	Bacteroidetes	Rikenellaceae		
OTU_3274	Bacteroidetes	Rikenellaceae		
OTU_546	Bacteroidetes	Rikenellaceae		
OTU_3086	Bacteroidetes	Rikenellaceae		
OTU_3778	Bacteroidetes	Rikenellaceae		
OTU_3942	Bacteroidetes	Rikenellaceae		
OTU_4685	Bacteroidetes	Rikenellaceae		
OTU_4052	Proteobacteria	Rhodospirillaceae		
OTU_4028	Proteobacteria	Rhodocyclaceae	Thauera	
OTU_3951	Proteobacteria	Rhodobacteraceae	Ruegeria	Ruegeria_atlantica
OTU_2509	Proteobacteria	Rhodobacteraceae	Rubellimicrobium	
OTU_3399	Proteobacteria	Rhodobacteraceae	Rubellimicrobium	
OTU_2444	Proteobacteria	Rhodobacteraceae	Rubellimicrobium	
OTU_2474	Proteobacteria	Rhodobacteraceae	Rubellimicrobium	

OTU_2357	Proteobacteria	Rhodobacteraceae	Roseobacter	Roseobacter_denitrificans
OTU_4206	Proteobacteria	Rhodobacteraceae	Pseudoceanicola	Pseudoceanicola_nanhaiensis
OTU_200	Proteobacteria	Rhodobacteraceae	Paracoccus	
OTU_4699	Proteobacteria	Rhodobacteraceae	Paracoccus	
OTU_1642	Proteobacteria	Rhodobacteraceae	Haematobacter	
OTU_3677	Proteobacteria	Rhodobacteraceae	Gemmobacter	
OTU_2020	Proteobacteria	Rhodobacteraceae	Gemmobacter	
OTU_3679	Proteobacteria	Rhodobacteraceae	Celeribacter	
OTU_4310	Proteobacteria	Rhodobacteraceae	Amaricoccus	
OTU_3380	Proteobacteria	Rhodobacteraceae	Amaricoccus	
OTU_1526	Proteobacteria	Rhodobacteraceae	Amaricoccus	
OTU_4784	Proteobacteria	Rhodobacteraceae		
OTU_1503	Proteobacteria	Rhodobacteraceae		
OTU_2709	Proteobacteria	Rhodobacteraceae		
OTU_2007	Proteobacteria	Rhodobacteraceae		
OTU_4008	Proteobacteria	Rhodobacteraceae		
OTU_2903	Proteobacteria	Rhodobacteraceae		

OTU_3656	Proteobacteria	Rhodobacteraceae		
OTU_4002	Proteobacteria	Rhodanobacteraceae	Rhodanobacter	
OTU_3939	Proteobacteria	Rhodanobacteraceae	Rhodanobacter	
OTU_3379	Proteobacteria	Rhodanobacteraceae	Luteibacter	Luteibacter_yejuensis
OTU_2806	Proteobacteria	Rhodanobacteraceae	Dyella	Dyella_koreensis
OTU_3188	Proteobacteria	Rhodanobacteraceae	Dokdonella	
OTU_3585	Proteobacteria	Rhodanobacteraceae	Chujaibacter	
OTU_2539	Proteobacteria	Rhodanobacteraceae		Aquimonas_sp_enrichment_culture_clone_03SUJ 1
OTU_1556	Proteobacteria	Rhodanobacteraceae		

OTU_1745	Proteobacteria	Rhizobiaceae	Shinella	
OTU_550	Proteobacteria	Rhizobiaceae	Paenochrobactrum	
OTU_926	Proteobacteria	Rhizobiaceae	Brucella	
OTU_3227	Proteobacteria	Rhizobiaceae	Bartonella	
OTU_196	Proteobacteria	Rhizobiaceae	Aureimonas	Aureimonas_altamirensis
OTU_1439	Proteobacteria	Rhizobiaceae	Aquamicrobium	
OTU_1626	Proteobacteria	Rhizobiaceae	Aliihoeflea	
OTU_3007	Proteobacteria	Rhizobiaceae		Mesorhizobium_sp_JB07
OTU_2377	Proteobacteria	Rhizobiaceae		Rhizobium_sp_NT-26
OTU_1528	Proteobacteria	Rhizobiaceae		
OTU_1174	Proteobacteria	Rhizobiaceae		
OTU_2532	Proteobacteria	Rhizobiaceae		
OTU_2784	Proteobacteria	Rhizobiaceae		
OTU_1876	Proteobacteria	Rhizobiaceae		
OTU_3966	Proteobacteria	Rhizobiaceae		
OTU_4305	Acidobacteria	Pyrinomonadaceae		
OTU_2797	Acidobacteria	Pyrinomonadaceae		

OTU_3044	Acidobacteria	Pyrinomonadaceae		
OTU_3356	Acidobacteria	Pyrinomonadaceae		
OTU_3106	Acidobacteria	Pyrinomonadaceae		
OTU_3631	Acidobacteria	Pyrinomonadaceae		
OTU_3899	Verrucomicrobi a	Puniceicoccaceae		
OTU_912	Verrucomicrobi a	Puniceicoccaceae		
OTU_2995	Verrucomicrobi a	Puniceicoccaceae		
OTU_4396	Verrucomicrobi a	Puniceicoccaceae		
OTU_3659	Verrucomicrobi a	Puniceicoccaceae		
OTU_1122	Actinobacteria	Pseudonocardia ae	Saccharopolyspora	Saccharopolyspora_gregorii
OTU_3114	Actinobacteria	Pseudonocardia	Pseudonocardia	

		ae		
OTU_3353	Actinobacteria	Pseudonocardiae ae	Kibdelosporangium	
OTU_3237	Actinobacteria	Pseudonocardiae ae	Amycolatopsis	
OTU_2254	Actinobacteria	Pseudonocardiae ae	Actinoalloteichus	Actinoalloteichus_cyanogriseus
OTU_4623	Actinobacteria	Pseudonocardiae ae		
OTU_2818	Proteobacteria	Pseudomonadacea e	Thiopseudomonas	
OTU_3673	Proteobacteria	Pseudomonadacea e	Pseudomonas	Pseudomonas_abietaniphila
OTU_2318	Proteobacteria	Pseudomonadacea e	Pseudomonas	
OTU_3107	Proteobacteria	Pseudomonadacea e	Pseudomonas	

OTU_2279	Proteobacteria	Pseudomonadaceae	Pseudomonas	
OTU_2753	Proteobacteria	Pseudomonadaceae	Pseudomonas	
OTU_1834	Proteobacteria	Pseudomonadaceae	Pseudomonas	
OTU_3394	Cyanobacteria	Pseudanabaenaceae		Pseudanabaena_galeata
OTU_3302	Actinobacteria	Propionibacteriaceae	Tessaracoccus	
OTU_1647	Actinobacteria	Propionibacteriaceae	Tessaracoccus	
OTU_4795	Actinobacteria	Propionibacteriaceae	Tessaracoccus	
OTU_1866	Actinobacteria	Propionibacteriaceae	Pseudopropionibacterium	
OTU_2160	Actinobacteria	Propionibacteriaceae	Propioniciclava	Propioniciclava_sp_SCSIO_13291

		ae		
OTU_3833	Actinobacteria	Propionibacteriaceae	Propioniciclava	
		ae		
OTU_951	Actinobacteria	Propionibacteriaceae	Propioniciclava	
		ae		
OTU_1730	Actinobacteria	Propionibacteriaceae	Micropruina	
		ae		
OTU_4747	Actinobacteria	Propionibacteriaceae	Luteococcus	
		ae		
OTU_3439	Actinobacteria	Propionibacteriaceae	Friedmanniella	
		ae		
OTU_1116	Actinobacteria	Propionibacteriaceae	Cutibacterium	Cutibacterium_acnes
		ae		
OTU_2432	Actinobacteria	Propionibacteriaceae	Aestuariimicrobium	
		ae		
OTU_2106	Actinobacteria	Propionibacteriaceae	Acidipropionibacterium	Acidipropionibacterium_acidipropionici
		ae	um	

OTU_2697	Actinobacteria	Propionibacteriaceae		_Ponticoccus_sp_CM5
OTU_1813	Actinobacteria	Propionibacteriaceae		Propionibacterium_sp_canine_oral_taxon_296
OTU_2981	Actinobacteria	Propionibacteriaceae		
OTU_2456	Actinobacteria	Propionibacteriaceae		
OTU_2664	Actinobacteria	Propionibacteriaceae		
OTU_2011	Actinobacteria	Propionibacteriaceae		
OTU_2555	Bacteroidetes	Prevotellaceae	Prevotella	Prevotella_intermedia
OTU_2172	Bacteroidetes	Prevotellaceae	Prevotella	Prevotella_nanceiensis
OTU_3327	Bacteroidetes	Prevotellaceae	Prevotella	Prevotella_oris
OTU_4250	Bacteroidetes	Prevotellaceae	Prevotella	Prevotella_pallens
OTU_3482	Bacteroidetes	Prevotellaceae	Prevotella	

OTU_608	Bacteroidetes	Prevotellaceae	Paraprevotella	Paraprevotella_clara
OTU_3016	Bacteroidetes	Prevotellaceae	Paraprevotella	Paraprevotella_clara
OTU_2866	Bacteroidetes	Prevotellaceae	Paraprevotella	
OTU_2843	Bacteroidetes	Prevotellaceae	Paraprevotella	
OTU_1625	Bacteroidetes	Prevotellaceae	Paraprevotella	
OTU_4829	Bacteroidetes	Prevotellaceae	Alloprevotella	Alloprevotella_rava
OTU_2733	Bacteroidetes	Prevotellaceae	Alloprevotella	Alloprevotella_tanneriae
OTU_322	Bacteroidetes	Prevotellaceae	Alloprevotella	
OTU_3555	Bacteroidetes	Prevotellaceae	Alloprevotella	
OTU_4230	Bacteroidetes	Prevotellaceae	Alloprevotella	
OTU_564	Bacteroidetes	Prevotellaceae	Alloprevotella	
OTU_2790	Bacteroidetes	Prevotellaceae	Alloprevotella	
OTU_2972	Bacteroidetes	Prevotellaceae	Alloprevotella	
OTU_168	Bacteroidetes	Prevotellaceae	Alloprevotella	
OTU_3937	Bacteroidetes	Prevotellaceae	Alloprevotella	
OTU_2309	Bacteroidetes	Prevotellaceae	Alloprevotella	
OTU_1204	Bacteroidetes	Prevotellaceae	Alloprevotella	

OTU_2319	Bacteroidetes	Prevotellaceae	Alloprevotella
OTU_3270	Bacteroidetes	Prevotellaceae	Alloprevotella
OTU_4299	Bacteroidetes	Prevotellaceae	Alloprevotella
OTU_862	Bacteroidetes	Prevotellaceae	Alloprevotella
OTU_2980	Bacteroidetes	Prevotellaceae	Alloprevotella
OTU_2330	Bacteroidetes	Prevotellaceae	Alloprevotella
OTU_1555	Bacteroidetes	Prevotellaceae	Alloprevotella
OTU_485	Bacteroidetes	Prevotellaceae	Alloprevotella
OTU_4650	Bacteroidetes	Prevotellaceae	Alloprevotella
OTU_1714	Bacteroidetes	Prevotellaceae	Alloprevotella
OTU_3706	Bacteroidetes	Prevotellaceae	Alloprevotella
OTU_107	Bacteroidetes	Prevotellaceae	Alloprevotella
OTU_1466	Bacteroidetes	Prevotellaceae	Alloprevotella
OTU_596	Bacteroidetes	Prevotellaceae	Alloprevotella
OTU_594	Bacteroidetes	Prevotellaceae	Alloprevotella
OTU_136	Bacteroidetes	Prevotellaceae	Alloprevotella
OTU_2028	Bacteroidetes	Prevotellaceae	Alloprevotella

OTU_3578	Bacteroidetes	Prevotellaceae	Alloprevotella	
OTU_348	Bacteroidetes	Prevotellaceae	Alloprevotella	
OTU_4352	Bacteroidetes	Prevotellaceae	Alloprevotella	
OTU_2141	Bacteroidetes	Prevotellaceae		Alloprevotella_sp_feline_oral_taxon_309
OTU_1464	Bacteroidetes	Prevotellaceae		Alloprevotella_sp_feline_oral_taxon_309
OTU_144	Bacteroidetes	Prevotellaceae		Alloprevotella_sp_feline_oral_taxon_309
OTU_270	Bacteroidetes	Prevotellaceae		Alloprevotella_sp_feline_oral_taxon_309
OTU_1989	Bacteroidetes	Prevotellaceae		Alloprevotella_sp_feline_oral_taxon_309
OTU_1607	Bacteroidetes	Prevotellaceae		Alloprevotella_sp_feline_oral_taxon_309
OTU_3039	Bacteroidetes	Prevotellaceae		Alloprevotella_sp_feline_oral_taxon_309
OTU_2242	Bacteroidetes	Prevotellaceae		bacterium_MC2010
OTU_2153	Bacteroidetes	Prevotellaceae		bacterium_NE3005
OTU_1217	Bacteroidetes	Prevotellaceae		bacterium_P3
OTU_4715	Bacteroidetes	Prevotellaceae		Prevotella_copri
OTU_2346	Bacteroidetes	Prevotellaceae		Prevotella_melaninogenica
OTU_3473	Bacteroidetes	Prevotellaceae		Prevotella_ruminicola
OTU_4851	Bacteroidetes	Prevotellaceae		Prevotella_salivae

OTU_3357	Bacteroidetes	Prevotellaceae
OTU_839	Bacteroidetes	Prevotellaceae
OTU_2265	Bacteroidetes	Prevotellaceae
OTU_4646	Bacteroidetes	Prevotellaceae
OTU_325	Bacteroidetes	Prevotellaceae
OTU_327	Bacteroidetes	Prevotellaceae
OTU_436	Bacteroidetes	Prevotellaceae
OTU_4338	Bacteroidetes	Prevotellaceae
OTU_3764	Bacteroidetes	Prevotellaceae
OTU_558	Bacteroidetes	Prevotellaceae
OTU_3235	Bacteroidetes	Prevotellaceae
OTU_2965	Bacteroidetes	Prevotellaceae
OTU_423	Bacteroidetes	Prevotellaceae
OTU_1148	Bacteroidetes	Prevotellaceae
OTU_1446	Bacteroidetes	Prevotellaceae
OTU_1950	Bacteroidetes	Prevotellaceae
OTU_3151	Bacteroidetes	Prevotellaceae

OTU_4828	Bacteroidetes	Prevotellaceae
OTU_1017	Bacteroidetes	Prevotellaceae
OTU_2520	Bacteroidetes	Prevotellaceae
OTU_3146	Bacteroidetes	Prevotellaceae
OTU_536	Bacteroidetes	Prevotellaceae
OTU_47	Bacteroidetes	Prevotellaceae
OTU_623	Bacteroidetes	Prevotellaceae
OTU_999	Bacteroidetes	Prevotellaceae
OTU_4053	Bacteroidetes	Prevotellaceae
OTU_49	Bacteroidetes	Prevotellaceae
OTU_3859	Bacteroidetes	Prevotellaceae
OTU_2629	Bacteroidetes	Prevotellaceae
OTU_278	Bacteroidetes	Prevotellaceae
OTU_4116	Bacteroidetes	Prevotellaceae
OTU_2888	Bacteroidetes	Prevotellaceae
OTU_2946	Bacteroidetes	Prevotellaceae
OTU_1986	Bacteroidetes	Prevotellaceae

OTU_2137	Bacteroidetes	Prevotellaceae
OTU_3697	Bacteroidetes	Prevotellaceae
OTU_3053	Bacteroidetes	Prevotellaceae
OTU_4479	Bacteroidetes	Prevotellaceae
OTU_467	Bacteroidetes	Prevotellaceae
OTU_4617	Bacteroidetes	Prevotellaceae
OTU_1741	Bacteroidetes	Prevotellaceae
OTU_2984	Bacteroidetes	Prevotellaceae
OTU_2332	Bacteroidetes	Prevotellaceae
OTU_2390	Bacteroidetes	Prevotellaceae
OTU_3244	Bacteroidetes	Prevotellaceae
OTU_497	Bacteroidetes	Prevotellaceae
OTU_254	Bacteroidetes	Prevotellaceae
OTU_2936	Bacteroidetes	Prevotellaceae
OTU_380	Bacteroidetes	Prevotellaceae
OTU_388	Bacteroidetes	Prevotellaceae
OTU_4063	Bacteroidetes	Prevotellaceae

OTU_2296	Bacteroidetes	Prevotellaceae
OTU_2297	Bacteroidetes	Prevotellaceae
OTU_4856	Bacteroidetes	Prevotellaceae
OTU_4335	Bacteroidetes	Prevotellaceae
OTU_4459	Bacteroidetes	Prevotellaceae
OTU_486	Bacteroidetes	Prevotellaceae
OTU_1720	Bacteroidetes	Prevotellaceae
OTU_3062	Bacteroidetes	Prevotellaceae
OTU_676	Bacteroidetes	Prevotellaceae
OTU_285	Bacteroidetes	Prevotellaceae
OTU_1881	Bacteroidetes	Prevotellaceae
OTU_2857	Bacteroidetes	Prevotellaceae
OTU_652	Bacteroidetes	Prevotellaceae
OTU_3530	Bacteroidetes	Prevotellaceae
OTU_3534	Bacteroidetes	Prevotellaceae
OTU_723	Bacteroidetes	Prevotellaceae
OTU_2847	Bacteroidetes	Prevotellaceae

OTU_250	Bacteroidetes	Prevotellaceae
OTU_1294	Bacteroidetes	Prevotellaceae
OTU_2536	Bacteroidetes	Prevotellaceae
OTU_2873	Bacteroidetes	Prevotellaceae
OTU_1875	Bacteroidetes	Prevotellaceae
OTU_2030	Bacteroidetes	Prevotellaceae
OTU_2496	Bacteroidetes	Prevotellaceae
OTU_2122	Bacteroidetes	Prevotellaceae
OTU_734	Bacteroidetes	Prevotellaceae
OTU_2870	Bacteroidetes	Prevotellaceae
OTU_4767	Bacteroidetes	Prevotellaceae
OTU_73	Bacteroidetes	Prevotellaceae
OTU_172	Bacteroidetes	Prevotellaceae
OTU_2000	Bacteroidetes	Prevotellaceae
OTU_105	Bacteroidetes	Prevotellaceae
OTU_4398	Bacteroidetes	Prevotellaceae
OTU_1608	Bacteroidetes	Prevotellaceae

OTU_1271	Bacteroidetes	Prevotellaceae
OTU_1853	Bacteroidetes	Prevotellaceae
OTU_2925	Bacteroidetes	Prevotellaceae
OTU_2927	Bacteroidetes	Prevotellaceae
OTU_976	Bacteroidetes	Prevotellaceae
OTU_135	Bacteroidetes	Prevotellaceae
OTU_1476	Bacteroidetes	Prevotellaceae
OTU_4821	Bacteroidetes	Prevotellaceae
OTU_4820	Bacteroidetes	Prevotellaceae
OTU_1823	Bacteroidetes	Prevotellaceae
OTU_3523	Bacteroidetes	Prevotellaceae
OTU_3574	Bacteroidetes	Prevotellaceae
OTU_763	Bacteroidetes	Prevotellaceae
OTU_4793	Bacteroidetes	Prevotellaceae
OTU_4862	Bacteroidetes	Prevotellaceae
OTU_4757	Bacteroidetes	Prevotellaceae
OTU_4753	Bacteroidetes	Prevotellaceae

OTU_1137	Bacteroidetes	Prevotellaceae
OTU_4546	Bacteroidetes	Prevotellaceae
OTU_4286	Bacteroidetes	Prevotellaceae
OTU_4882	Bacteroidetes	Prevotellaceae
OTU_4485	Bacteroidetes	Prevotellaceae
OTU_2560	Bacteroidetes	Prevotellaceae
OTU_2567	Bacteroidetes	Prevotellaceae
OTU_1635	Bacteroidetes	Prevotellaceae
OTU_2824	Bacteroidetes	Prevotellaceae
OTU_2727	Bacteroidetes	Prevotellaceae
OTU_1028	Bacteroidetes	Prevotellaceae
OTU_1931	Bacteroidetes	Prevotellaceae
OTU_2352	Bacteroidetes	Prevotellaceae
OTU_4516	Bacteroidetes	Prevotellaceae
OTU_1806	Bacteroidetes	Prevotellaceae
OTU_3771	Bacteroidetes	Prevotellaceae
OTU_3178	Bacteroidetes	Prevotellaceae

OTU_2916	Bacteroidetes	Porphyromonadaceae	Porphyromonas	Porphyromonas_endodontalis
OTU_4603	Bacteroidetes	Porphyromonadaceae	Porphyromonas	Porphyromonas_gingivalis
OTU_3050	Bacteroidetes	Porphyromonadaceae	Porphyromonas	
OTU_2190	Bacteroidetes	Porphyromonadaceae	Porphyromonas	
OTU_2061	Bacteroidetes	Porphyromonadaceae	Porphyromonas	
OTU_4482	Bacteroidetes	Porphyromonadaceae	Porphyromonas	
OTU_2793	Proteobacteria	Polyangiaceae		
OTU_2323	Proteobacteria	Polyangiaceae		
OTU_3187	Proteobacteria	Polyangiaceae		
OTU_4050	Firmicutes	Planococcaceae	Sporosarcina	
OTU_1397	Firmicutes	Planococcaceae	Sporosarcina	

OTU_1338	Firmicutes	Planococcaceae	Solibacillus	Solibacillus_silvestris
OTU_2969	Firmicutes	Planococcaceae	Savagea	Savagea_faecisuis
OTU_1359	Firmicutes	Planococcaceae	Savagea	
OTU_707	Firmicutes	Planococcaceae	Lysinibacillus	
OTU_3295	Firmicutes	Planococcaceae	Lysinibacillus	
OTU_346	Firmicutes	Planococcaceae	Kurthia	
OTU_1229	Firmicutes	Planococcaceae		
OTU_2730	Planctomycetes	Phycisphaeraceae		
OTU_2911	Proteobacteria	Phaselicytidaceae	Phaselicystis	
OTU_887	Firmicutes	Peptostreptococcaceae	Terrisporobacter	
OTU_1585	Firmicutes	Peptostreptococcaceae	Sporacetigenium	
OTU_3763	Firmicutes	Peptostreptococcaceae	Romboutsia	
OTU_2988	Firmicutes	Peptostreptococcaceae	Romboutsia	

OTU_1349	Firmicutes	Peptostreptococcac eae	Romboutsia
OTU_2498	Firmicutes	Peptostreptococcac eae	Romboutsia
OTU_2464	Firmicutes	Peptostreptococcac eae	Romboutsia
OTU_4	Firmicutes	Peptostreptococcac eae	Romboutsia
OTU_2657	Firmicutes	Peptostreptococcac eae	Romboutsia
OTU_3598	Firmicutes	Peptostreptococcac eae	Proteocatella
OTU_1959	Firmicutes	Peptostreptococcac eae	Peptostreptococcus
OTU_216	Firmicutes	Peptostreptococcac eae	Peptostreptococcus
OTU_53	Firmicutes	Peptostreptococcac	Peptoclostridium

		eae	
OTU_1363	Firmicutes	Peptostreptococcac eae	Paraclostridium
OTU_118	Firmicutes	Peptostreptococcac eae	Paeniclostridium
OTU_3560	Firmicutes	Peptostreptococcac eae	Filifactor
OTU_4649	Firmicutes	Peptostreptococcac eae	Acetoanaerobium
OTU_4581	Firmicutes	Peptostreptococcac eae	
OTU_4182	Firmicutes	Peptostreptococcac eae	
OTU_456	Firmicutes	Peptococcaceae	Peptococcus
OTU_1590	Firmicutes	Peptococcaceae	Peptococcus
OTU_1591	Firmicutes	Peptococcaceae	Peptococcus
OTU_1633	Firmicutes	Peptococcaceae	Peptococcus

OTU_3022	Firmicutes	Peptococcaceae	Peptococcus
OTU_3406	Firmicutes	Peptococcaceae	Peptococcus
OTU_2756	Firmicutes	Peptococcaceae	Desulfitobacterium
OTU_4659	Firmicutes	Peptococcaceae	
OTU_1142	Firmicutes	Peptococcaceae	
OTU_2097	Firmicutes	Peptococcaceae	
OTU_1541	Firmicutes	Peptococcaceae	
OTU_2610	Firmicutes	Peptococcaceae	
OTU_3051	Firmicutes	Peptococcaceae	
OTU_3626	Firmicutes	Peptococcaceae	
OTU_2652	Firmicutes	Peptococcaceae	
OTU_4730	Firmicutes	Peptococcaceae	
OTU_4144	Firmicutes	Peptococcaceae	
OTU_1406	Firmicutes	Peptococcaceae	
OTU_2627	Firmicutes	Peptococcaceae	
OTU_4827	Firmicutes	Peptococcaceae	
OTU_1841	Firmicutes	Peptococcaceae	

OTU_3984	Firmicutes	Peptococcaceae		
OTU_1776	Firmicutes	Peptococcaceae		
OTU_1518	Proteobacteria	Pasteurellaceae	Rodentibacter	Rodentibacter_ratti
OTU_4832	Proteobacteria	Pasteurellaceae	Rodentibacter	
OTU_4404	Proteobacteria	Pasteurellaceae	Rodentibacter	
OTU_3437	Proteobacteria	Pasteurellaceae	Haemophilus	Haemophilus_haemolyticus
OTU_1355	Proteobacteria	Pasteurellaceae	Haemophilus	Haemophilus_parainfluenzae
OTU_1112	Proteobacteria	Pasteurellaceae	Basfia	
OTU_3912	Proteobacteria	Pasteurellaceae	Actinobacillus	Actinobacillus_minor
OTU_1430	Proteobacteria	Pasteurellaceae	Actinobacillus	Actinobacillus_succinogenes
OTU_2699	Proteobacteria	Pasteurellaceae	Actinobacillus	Haemophilus_paraahaemolyticus
OTU_1628	Proteobacteria	Pasteurellaceae	Actinobacillus	
OTU_954	Proteobacteria	Pasteurellaceae		
OTU_4545	Proteobacteria	Pasteurellaceae		
OTU_2348	Proteobacteria	Pasteurellaceae		
OTU_4640	Proteobacteria	Pasteurellaceae		
OTU_4673	Proteobacteria	Parvularculaceae		

OTU_1707	Chlamydiae	Parachlamydiaceae	Neochlamydia
OTU_3564	Proteobacteria	Paracaedibacteraceae	Candidatus
OTU_1155	Proteobacteria	Paracaedibacteraceae	
OTU_3162	Proteobacteria	Paracaedibacteraceae	
OTU_2752	Proteobacteria	Paracaedibacteraceae	
OTU_2208	Proteobacteria	Paracaedibacteraceae	
OTU_441	Proteobacteria	Paracaedibacteraceae	
OTU_3045	Proteobacteria	Paracaedibacteraceae	
OTU_2329	Proteobacteria	Paracaedibacteraceae	

		ae		
OTU_3811	Proteobacteria	Paracaedibacteraceae		
		ae		
OTU_4770	Proteobacteria	Paracaedibacteraceae		
		ae		
OTU_305	Proteobacteria	Paracaedibacteraceae		
		ae		
OTU_4637	Bacteroidetes	Paludibacteraceae		
OTU_1099	Bacteroidetes	Paludibacteraceae		
OTU_4766	Bacteroidetes	Paludibacteraceae		
OTU_3074	Firmicutes	Paenibacillaceae	Paenibacillus	Paenibacillus_chibensis
OTU_2623	Firmicutes	Paenibacillaceae	Paenibacillus	Paenibacillus_xylanilyticus
OTU_4843	Firmicutes	Paenibacillaceae	Paenibacillus	
OTU_4293	Proteobacteria	Orbaceae	Gilliamella	
OTU_4367	Proteobacteria	Orbaceae	Gilliamella	
OTU_2495	Proteobacteria	Orbaceae	Frischella	Frischella_perrara
OTU_4722	Verrucomicrobi	Opitutaceae		

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OTU_3095	Proteobacteria	Oligoflexaceae		
OTU_3200	Proteobacteria	Oligoflexaceae		
OTU_2711	Actinobacteria	Nocardiopsaceae	Nocardiopsis	Nocardiopsis_alba
OTU_3553	Actinobacteria	Nocardioidaceae	Nocardioides	Kribbella_sp_enrichment_culture_clone_VanCtr4 2
OTU_2458	Actinobacteria	Nocardioidaceae	Nocardioides	Nocardioides_albus
OTU_2964	Actinobacteria	Nocardioidaceae	Nocardioides	Nocardioides_exalbidus
OTU_4457	Actinobacteria	Nocardioidaceae	Nocardioides	Nocardioides_sp
OTU_4225	Actinobacteria	Nocardioidaceae	Nocardioides	Nocardioides_sp_HJX23
OTU_1492	Actinobacteria	Nocardioidaceae	Nocardioides	
OTU_4255	Actinobacteria	Nocardioidaceae	Nocardioides	
OTU_2949	Actinobacteria	Nocardioidaceae	Nocardioides	
OTU_4666	Actinobacteria	Nocardioidaceae	Nocardioides	
OTU_1212	Actinobacteria	Nocardioidaceae	Nocardioides	
OTU_1768	Actinobacteria	Nocardioidaceae	Nocardioides	
OTU_1760	Actinobacteria	Nocardioidaceae	Nocardioides	

OTU_2010	Actinobacteria	Nocardioidaceae	Nocardioides	
OTU_4344	Actinobacteria	Nocardioidaceae	Nocardioides	
OTU_1705	Actinobacteria	Nocardioidaceae	Marmoricola	
OTU_2060	Actinobacteria	Nocardioidaceae	Kribbella	
OTU_4818	Actinobacteria	Nocardioidaceae	Aeromicrobium	
OTU_1346	Actinobacteria	Nocardioidaceae		
OTU_3629	Actinobacteria	Nocardioidaceae		
OTU_4483	Actinobacteria	Nocardioidaceae		
OTU_2248	Actinobacteria	Nocardiaceae	Smaragdicoccus	
OTU_1902	Actinobacteria	Nocardiaceae	Rhodococcus	Rhodococcus_corynebacterioides
OTU_2244	Actinobacteria	Nocardiaceae	Rhodococcus	Rhodococcus_fascians
OTU_2566	Actinobacteria	Nocardiaceae	Rhodococcus	Rhodococcus_pyridinivorans
OTU_1071	Actinobacteria	Nocardiaceae	Rhodococcus	
OTU_3317	Actinobacteria	Nocardiaceae	Rhodococcus	
OTU_3288	Actinobacteria	Nocardiaceae	Nocardia	
OTU_991	Actinobacteria	Nocardiaceae	Gordonia	
OTU_1828	Nitrospirae	Nitrospiraceae		

OTU_1926	Thaumarchaeota	Nitrososphaeraceae	Candidatus
OTU_2123	Thaumarchaeota	Nitrososphaeraceae	Candidatus
OTU_2143	Thaumarchaeota	Nitrososphaeraceae	
OTU_2631	Thaumarchaeota	Nitrososphaeraceae	
OTU_2506	Thaumarchaeota	Nitrososphaeraceae	
OTU_1330	Thaumarchaeota	Nitrososphaeraceae	
OTU_2168	Proteobacteria	Nitrosomonadaceae	Nitrospira
OTU_2867	Proteobacteria	Nitrosomonadaceae	Nitrosomonas
OTU_3974	Proteobacteria	Nitrosomonadaceae	Nitrosomonas

		e		
OTU_2785	Proteobacteria	Nitrosomonadacea		
		e		
OTU_2728	Proteobacteria	Nitrosomonadacea		
		e		
OTU_2025	Proteobacteria	Nitrosomonadacea		
		e		
OTU_2758	Proteobacteria	Nitrosomonadacea		
		e		
OTU_3948	Proteobacteria	Nitrosomonadacea		
		e		
OTU_4562	Proteobacteria	Nitrosomonadacea		
		e		
OTU_2782	Actinobacteria	Nitriliruptoraceae		
OTU_3880	Proteobacteria	Neisseriaceae	Neisseria	Neisseria_flava
OTU_2523	Proteobacteria	Neisseriaceae	Neisseria	
OTU_4853	Proteobacteria	Neisseriaceae	Neisseria	

OTU_3434	Proteobacteria	Nannocystaceae	Nannocystis	
OTU_3191	Actinobacteria	Nakamurellaceae	Nakamurella	
OTU_455	Tenericutes	Mycoplasmataceae	Ureaplasma	
OTU_592	Tenericutes	Mycoplasmataceae	Ureaplasma	
OTU_1527	Tenericutes	Mycoplasmataceae	Mycoplasma	Mycoplasma_hyorhina
OTU_24	Tenericutes	Mycoplasmataceae	Mycoplasma	Mycoplasma_moatsii
OTU_2091	Tenericutes	Mycoplasmataceae	Mycoplasma	Mycoplasma_moatsii
OTU_2500	Tenericutes	Mycoplasmataceae	Mycoplasma	Mycoplasma_pulmonis
OTU_114	Tenericutes	Mycoplasmataceae	Mycoplasma	Mycoplasma_sualvi
OTU_551	Tenericutes	Mycoplasmataceae	Mycoplasma	
OTU_3132	Tenericutes	Mycoplasmataceae	Mycoplasma	
OTU_32	Tenericutes	Mycoplasmataceae	Mycoplasma	
OTU_171	Tenericutes	Mycoplasmataceae	Mycoplasma	
OTU_4390	Tenericutes	Mycoplasmataceae	Mycoplasma	
OTU_683	Tenericutes	Mycoplasmataceae	Mycoplasma	
OTU_9	Tenericutes	Mycoplasmataceae	Mycoplasma	
OTU_1622	Tenericutes	Mycoplasmataceae	Mycoplasma	

OTU_2904	Tenericutes	Mycoplasmataceae	Mycoplasma	
OTU_2090	Tenericutes	Mycoplasmataceae		
OTU_1783	Tenericutes	Mycoplasmataceae		
OTU_150	Tenericutes	Mycoplasmataceae		
OTU_1505	Tenericutes	Mycoplasmataceae		
OTU_1313	Actinobacteria	Mycobacteriaceae	Mycobacterium	
OTU_1800	Actinobacteria	Mycobacteriaceae	Mycobacterium	
OTU_3707	Actinobacteria	Mycobacteriaceae	Mycobacterium	
OTU_4886	Actinobacteria	Mycobacteriaceae	Hoyosella	
OTU_2716	Bacteroidetes	Muribaculaceae	Muribaculum	
OTU_1135	Bacteroidetes	Muribaculaceae		Gram-negative_bacterium_cTPY-13
OTU_324	Bacteroidetes	Muribaculaceae		
OTU_326	Bacteroidetes	Muribaculaceae		
OTU_321	Bacteroidetes	Muribaculaceae		
OTU_899	Bacteroidetes	Muribaculaceae		
OTU_890	Bacteroidetes	Muribaculaceae		
OTU_2913	Bacteroidetes	Muribaculaceae		

OTU_2912	Bacteroidetes	Muribaculaceae
OTU_439	Bacteroidetes	Muribaculaceae
OTU_237	Bacteroidetes	Muribaculaceae
OTU_1484	Bacteroidetes	Muribaculaceae
OTU_1481	Bacteroidetes	Muribaculaceae
OTU_246	Bacteroidetes	Muribaculaceae
OTU_244	Bacteroidetes	Muribaculaceae
OTU_1154	Bacteroidetes	Muribaculaceae
OTU_243	Bacteroidetes	Muribaculaceae
OTU_3886	Bacteroidetes	Muribaculaceae
OTU_1031	Bacteroidetes	Muribaculaceae
OTU_1323	Bacteroidetes	Muribaculaceae
OTU_1320	Bacteroidetes	Muribaculaceae
OTU_1326	Bacteroidetes	Muribaculaceae
OTU_1324	Bacteroidetes	Muribaculaceae
OTU_1328	Bacteroidetes	Muribaculaceae
OTU_3952	Bacteroidetes	Muribaculaceae

OTU_396	Bacteroidetes	Muribaculaceae
OTU_3552	Bacteroidetes	Muribaculaceae
OTU_1261	Bacteroidetes	Muribaculaceae
OTU_2188	Bacteroidetes	Muribaculaceae
OTU_2361	Bacteroidetes	Muribaculaceae
OTU_1814	Bacteroidetes	Muribaculaceae
OTU_1810	Bacteroidetes	Muribaculaceae
OTU_2145	Bacteroidetes	Muribaculaceae
OTU_3160	Bacteroidetes	Muribaculaceae
OTU_651	Bacteroidetes	Muribaculaceae
OTU_554	Bacteroidetes	Muribaculaceae
OTU_62	Bacteroidetes	Muribaculaceae
OTU_334	Bacteroidetes	Muribaculaceae
OTU_339	Bacteroidetes	Muribaculaceae
OTU_696	Bacteroidetes	Muribaculaceae
OTU_514	Bacteroidetes	Muribaculaceae
OTU_2177	Bacteroidetes	Muribaculaceae

OTU_4786	Bacteroidetes	Muribaculaceae
OTU_4780	Bacteroidetes	Muribaculaceae
OTU_4781	Bacteroidetes	Muribaculaceae
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OTU_1141	Bacteroidetes	Muribaculaceae
OTU_1463	Bacteroidetes	Muribaculaceae
OTU_1001	Bacteroidetes	Muribaculaceae
OTU_1006	Bacteroidetes	Muribaculaceae
OTU_1004	Bacteroidetes	Muribaculaceae
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OTU_3571	Bacteroidetes	Muribaculaceae

OTU_1954	Bacteroidetes	Muribaculaceae
OTU_3672	Bacteroidetes	Muribaculaceae
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OTU_609	Bacteroidetes	Muribaculaceae
OTU_939	Bacteroidetes	Muribaculaceae
OTU_2159	Bacteroidetes	Muribaculaceae
OTU_3152	Bacteroidetes	Muribaculaceae
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OTU_527	Bacteroidetes	Muribaculaceae
OTU_400	Bacteroidetes	Muribaculaceae
OTU_4271	Bacteroidetes	Muribaculaceae
OTU_2398	Bacteroidetes	Muribaculaceae
OTU_191	Bacteroidetes	Muribaculaceae
OTU_635	Bacteroidetes	Muribaculaceae
OTU_632	Bacteroidetes	Muribaculaceae
OTU_631	Bacteroidetes	Muribaculaceae

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OTU_458	Bacteroidetes	Muribaculaceae
OTU_452	Bacteroidetes	Muribaculaceae
OTU_983	Bacteroidetes	Muribaculaceae
OTU_454	Bacteroidetes	Muribaculaceae
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OTU_3514	Bacteroidetes	Muribaculaceae
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OTU_3995	Bacteroidetes	Muribaculaceae
OTU_3301	Bacteroidetes	Muribaculaceae
OTU_1138	Bacteroidetes	Muribaculaceae
OTU_4280	Bacteroidetes	Muribaculaceae
OTU_4752	Bacteroidetes	Muribaculaceae
OTU_3109	Bacteroidetes	Muribaculaceae
OTU_3975	Bacteroidetes	Muribaculaceae
OTU_3976	Bacteroidetes	Muribaculaceae
OTU_3915	Bacteroidetes	Muribaculaceae
OTU_2231	Bacteroidetes	Muribaculaceae
OTU_353	Bacteroidetes	Muribaculaceae
OTU_2580	Bacteroidetes	Muribaculaceae
OTU_2340	Bacteroidetes	Muribaculaceae
OTU_4361	Bacteroidetes	Muribaculaceae

OTU_3749	Bacteroidetes	Muribaculaceae
OTU_3747	Bacteroidetes	Muribaculaceae
OTU_3562	Bacteroidetes	Muribaculaceae
OTU_1459	Bacteroidetes	Muribaculaceae
OTU_4692	Bacteroidetes	Muribaculaceae
OTU_3367	Bacteroidetes	Muribaculaceae
OTU_3366	Bacteroidetes	Muribaculaceae
OTU_3411	Bacteroidetes	Muribaculaceae
OTU_318	Bacteroidetes	Muribaculaceae
OTU_1530	Bacteroidetes	Muribaculaceae
OTU_313	Bacteroidetes	Muribaculaceae
OTU_4645	Bacteroidetes	Muribaculaceae
OTU_411	Bacteroidetes	Muribaculaceae
OTU_4218	Bacteroidetes	Muribaculaceae
OTU_2683	Bacteroidetes	Muribaculaceae
OTU_4030	Bacteroidetes	Muribaculaceae
OTU_969	Bacteroidetes	Muribaculaceae

OTU_1639	Bacteroidetes	Muribaculaceae
OTU_3483	Bacteroidetes	Muribaculaceae
OTU_4740	Bacteroidetes	Muribaculaceae
OTU_1967	Bacteroidetes	Muribaculaceae
OTU_1125	Bacteroidetes	Muribaculaceae
OTU_777	Bacteroidetes	Muribaculaceae
OTU_699	Bacteroidetes	Muribaculaceae
OTU_906	Bacteroidetes	Muribaculaceae
OTU_1778	Bacteroidetes	Muribaculaceae
OTU_1538	Bacteroidetes	Muribaculaceae
OTU_3877	Bacteroidetes	Muribaculaceae
OTU_1334	Bacteroidetes	Muribaculaceae
OTU_2220	Bacteroidetes	Muribaculaceae
OTU_1934	Bacteroidetes	Muribaculaceae
OTU_1688	Bacteroidetes	Muribaculaceae
OTU_579	Bacteroidetes	Muribaculaceae
OTU_238	Bacteroidetes	Muribaculaceae

OTU_2595	Bacteroidetes	Muribaculaceae		
OTU_2590	Bacteroidetes	Muribaculaceae		
OTU_2592	Bacteroidetes	Muribaculaceae		
OTU_3085	Bacteroidetes	Muribaculaceae		
OTU_2573	Bacteroidetes	Muribaculaceae		
OTU_1298	Bacteroidetes	Muribaculaceae		
OTU_4518	Bacteroidetes	Muribaculaceae		
OTU_645	Bacteroidetes	Muribaculaceae		
OTU_768	Bacteroidetes	Muribaculaceae		
OTU_2180	Proteobacteria	Moraxellaceae	Psychrobacter	Psychrobacter_alimentarius
OTU_1995	Proteobacteria	Moraxellaceae	Perlucidibaca	
OTU_935	Proteobacteria	Moraxellaceae	Moraxella	
OTU_820	Proteobacteria	Moraxellaceae	Moraxella	
OTU_2459	Proteobacteria	Moraxellaceae	Moraxella	
OTU_3226	Proteobacteria	Moraxellaceae	Enhydrobacter	
OTU_2615	Proteobacteria	Moraxellaceae	Acinetobacter	Acinetobacter_bohemicus
OTU_2434	Proteobacteria	Moraxellaceae	Acinetobacter	Acinetobacter_johnsonii

OTU_520	Proteobacteria	Moraxellaceae	Acinetobacter	Acinetobacter_lwoffii
OTU_358	Proteobacteria	Moraxellaceae	Acinetobacter	Acinetobacter_nosocomialis
OTU_2224	Proteobacteria	Moraxellaceae	Acinetobacter	Acinetobacter_soli
OTU_1804	Proteobacteria	Moraxellaceae	Acinetobacter	Acinetobacter_towneri
OTU_1534	Proteobacteria	Moraxellaceae	Acinetobacter	Acinetobacter_venetianus
OTU_1345	Proteobacteria	Moraxellaceae	Acinetobacter	
OTU_3491	Proteobacteria	Moraxellaceae		
OTU_3134	Bacteroidetes	Microscillaceae	Ohtaekwangia	
OTU_3851	Bacteroidetes	Microscillaceae	Ohtaekwangia	
OTU_3185	Bacteroidetes	Microscillaceae	Ohtaekwangia	
OTU_2594	Bacteroidetes	Microscillaceae	Ohtaekwangia	
OTU_1725	Bacteroidetes	Microscillaceae	Chryseolinea	
OTU_3780	Bacteroidetes	Microscillaceae		
OTU_2300	Bacteroidetes	Microscillaceae		
OTU_2781	Bacteroidetes	Microscillaceae		
OTU_1973	Bacteroidetes	Microscillaceae		
OTU_2163	Bacteroidetes	Microscillaceae		

OTU_3417	Bacteroidetes	Microscillaceae	
OTU_4358	Bacteroidetes	Microscillaceae	
OTU_3021	Bacteroidetes	Microscillaceae	
OTU_4777	Bacteroidetes	Microscillaceae	
OTU_4484	Bacteroidetes	Microscillaceae	
OTU_2999	Bacteroidetes	Microscillaceae	
OTU_3967	Bacteroidetes	Microscillaceae	
OTU_4693	Proteobacteria	Micropepsaceae	Micropepsis
OTU_3090	Proteobacteria	Micropepsaceae	
OTU_4331	Proteobacteria	Micropepsaceae	
OTU_3395	Actinobacteria	Micromonosporaceae	Virgisporangium
OTU_2740	Actinobacteria	Micromonosporaceae	Rhizocola
OTU_4439	Actinobacteria	Micromonosporaceae	Micromonospora
OTU_3953	Actinobacteria	Micromonosporaceae	

		eae		
OTU_4811	Actinobacteria	Micromonosporac eae		
OTU_88	Actinobacteria	Micrococcaceae	Rothia	
OTU_2561	Actinobacteria	Micrococcaceae	Rothia	
OTU_3872	Actinobacteria	Micrococcaceae	Rothia	
OTU_2373	Actinobacteria	Micrococcaceae	Nesterenkonia	
OTU_3259	Actinobacteria	Micrococcaceae	Nesterenkonia	
OTU_3711	Actinobacteria	Micrococcaceae	Nesterenkonia	
OTU_1460	Actinobacteria	Micrococcaceae	Nesterenkonia	
OTU_1963	Actinobacteria	Micrococcaceae	Kocuria	Kocuria_kristinae
OTU_1244	Actinobacteria	Micrococcaceae	Kocuria	Kocuria_palustris
OTU_1470	Actinobacteria	Micrococcaceae	Glutamicibacter	Glutamicibacter_creatinolyticus
OTU_3452	Actinobacteria	Micrococcaceae	Glutamicibacter	
OTU_361	Actinobacteria	Micrococcaceae	Glutamicibacter	
OTU_1883	Actinobacteria	Micrococcaceae	Garicola	
OTU_4738	Actinobacteria	Micrococcaceae	Enteractinococcus	

OTU_3495	Actinobacteria	Micrococcaceae	Enteractinococcus	
OTU_2488	Actinobacteria	Micrococcaceae		
OTU_2868	Actinobacteria	Micrococcaceae		
OTU_1069	Actinobacteria	Microbacteriaceae	Rhodoluna	
OTU_849	Actinobacteria	Microbacteriaceae	Microbacterium	Microbacterium_esteraromaticum
OTU_1807	Actinobacteria	Microbacteriaceae	Microbacterium	Microbacterium_keratanolyticum
OTU_3945	Actinobacteria	Microbacteriaceae	Microbacterium	Microbacterium_pseudoresistens
OTU_1036	Actinobacteria	Microbacteriaceae	Leucobacter	
OTU_1924	Actinobacteria	Microbacteriaceae	Leucobacter	
OTU_3853	Actinobacteria	Microbacteriaceae	Leucobacter	
OTU_2653	Actinobacteria	Microbacteriaceae	Leucobacter	
OTU_1609	Actinobacteria	Microbacteriaceae	Leucobacter	
OTU_378	Actinobacteria	Microbacteriaceae	Leucobacter	
OTU_3573	Actinobacteria	Microbacteriaceae	Agromyces	
OTU_2306	Actinobacteria	Microbacteriaceae		
OTU_746	Actinobacteria	Microbacteriaceae		
OTU_3041	Actinobacteria	Microbacteriaceae		

OTU_1982	Actinobacteria	Microbacteriaceae		
OTU_4458	Actinobacteria	Microbacteriaceae		
OTU_1914	Actinobacteria	Microbacteriaceae		
OTU_3258	Proteobacteria	Methylophilaceae	Methylophila	
OTU_673	Proteobacteria	Methylophilaceae	Methylophilus	
OTU_4363	Proteobacteria	Methylophilaceae		Methylobacillus_sp_MM2
OTU_1833	Proteobacteria	Methylophilaceae		
OTU_3070	Euryarchaeota	Methanosarcinaceae	Methanosarcina	Methanosarcina_mazei
OTU_4456	Euryarchaeota	Methanosarcinaceae	Methanimicrococcus	
OTU_4838	Euryarchaeota	Methanocorpusculaceae	Methanocorpusculum	
OTU_1691	Euryarchaeota	Methanocorpusculaceae	Methanocorpusculum	
OTU_3686	Euryarchaeota	Methanobacteriaceae	Methanosphaera	

OTU_597	Euryarchaeota	Methanobacteriaceae	Methanobrevibacter	
OTU_981	Euryarchaeota	Methanobacteriaceae	Methanobrevibacter	
OTU_2858	Bacteroidetes	Marinilabiliaceae	Ruminofilibacter	
OTU_2019	Bacteroidetes	Marinifilaceae	Sanguibacteroides	Sanguibacteroides_justesenii
OTU_1508	Bacteroidetes	Marinifilaceae	Odoribacter	Culturomica_massiliensis
OTU_1545	Bacteroidetes	Marinifilaceae	Odoribacter	Odoribacter_splanchnicus
OTU_1032	Bacteroidetes	Marinifilaceae	Odoribacter	
OTU_414	Bacteroidetes	Marinifilaceae	Odoribacter	
OTU_3683	Bacteroidetes	Marinifilaceae	Odoribacter	
OTU_1225	Bacteroidetes	Marinifilaceae	Odoribacter	
OTU_1550	Bacteroidetes	Marinifilaceae	Odoribacter	
OTU_2854	Bacteroidetes	Marinifilaceae	Odoribacter	
OTU_706	Bacteroidetes	Marinifilaceae	Odoribacter	
OTU_2282	Bacteroidetes	Marinifilaceae	Odoribacter	
OTU_226	Bacteroidetes	Marinifilaceae	Odoribacter	

OTU_919	Bacteroidetes	Marinifilaceae	Odoribacter	
OTU_103	Bacteroidetes	Marinifilaceae	Odoribacter	
OTU_1469	Bacteroidetes	Marinifilaceae	Odoribacter	
OTU_1848	Bacteroidetes	Marinifilaceae	Odoribacter	
OTU_1855	Bacteroidetes	Marinifilaceae	Odoribacter	
OTU_940	Bacteroidetes	Marinifilaceae	Odoribacter	
OTU_1901	Bacteroidetes	Marinifilaceae	Odoribacter	
OTU_4329	Bacteroidetes	Marinifilaceae	Odoribacter	
OTU_2662	Bacteroidetes	Marinifilaceae	Marinifilum	
OTU_102	Bacteroidetes	Marinifilaceae	Butyricimonas	Butyricimonas_virosa
OTU_1506	Bacteroidetes	Marinifilaceae	Butyricimonas	
OTU_1321	Bacteroidetes	Marinifilaceae	Butyricimonas	
OTU_1301	Bacteroidetes	Marinifilaceae	Butyricimonas	
OTU_3283	Bacteroidetes	Marinifilaceae	Butyricimonas	
OTU_2114	Bacteroidetes	Marinifilaceae	Butyricimonas	
OTU_2774	Bacteroidetes	Marinifilaceae	Butyricimonas	
OTU_2211	Bacteroidetes	Marinifilaceae		

OTU_2611	Bacteroidetes	Marinifilaceae		
OTU_3847	Gemmatimonadetes	Longimicrobiaceae		
OTU_2457	Gemmatimonadetes	Longimicrobiaceae		
OTU_3077	Gemmatimonadetes	Longimicrobiaceae		
OTU_4325	Gemmatimonadetes	Longimicrobiaceae		
OTU_2905	Gemmatimonadetes	Longimicrobiaceae		
OTU_3676	Firmicutes	Limnochordaceae		
OTU_1022	Firmicutes	Leuconostocaceae	Weissella	Weissella_ceti
OTU_156	Firmicutes	Leuconostocaceae	Weissella	Weissella_paramesenteroides
OTU_3732	Firmicutes	Leuconostocaceae	Weissella	Weissella_viridescens
OTU_1344	Firmicutes	Leuconostocaceae	Weissella	
OTU_913	Firmicutes	Leuconostocaceae	Weissella	

OTU_654	Firmicutes	Leuconostocaceae	Leuconostoc	Leuconostoc_pseudomesenteroides
OTU_1010	Firmicutes	Leuconostocaceae	Fructobacillus	
OTU_1750	Firmicutes	Leuconostocaceae	Fructobacillus	
OTU_803	Fusobacteria	Leptotrichiaceae	Streptobacillus	Streptobacillus_notomytis
OTU_3922	Fusobacteria	Leptotrichiaceae	Sneathia	Sneathia_amnii
OTU_2812	Fusobacteria	Leptotrichiaceae	Leptotrichia	
OTU_4057	Bacteroidetes	Lentimicrobiaceae	Lentimicrobium	
OTU_3240	Proteobacteria	Legionellaceae	Legionella	
OTU_1684	Firmicutes	Lactobacillaceae	Pediococcus	Pediococcus_pentosaceus
OTU_2670	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_acidipiscis
OTU_1884	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_agilis
OTU_4686	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_amylotrophicus
OTU_3726	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_aviarius
OTU_1242	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_brevis
OTU_2167	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_camelliae
OTU_4769	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_casei
OTU_406	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_coleohominis

OTU_1610	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_dextrinicus
OTU_4701	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_equi
OTU_3973	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_equigenerosi
OTU_3277	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_faecis
OTU_3175	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_faecis
OTU_4497	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_faecis
OTU_975	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_farciminis
OTU_2502	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_fermentum
OTU_2497	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_ginsenosidimutans
OTU_2625	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_ingluviei
OTU_1799	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_intestinalis
OTU_183	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_intestinalis
OTU_745	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_intestinalis
OTU_3100	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_intestinalis
OTU_4899	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_intestinalis
OTU_2487	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_intestinalis
OTU_2485	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_intestinalis

OTU_199	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_kalixensis
OTU_2388	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_mucosae
OTU_769	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_pentosus
OTU_3963	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_pontis
OTU_4152	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_reuteri
OTU_3	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_reuteri
OTU_997	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_saerimneri
OTU_459	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_sakei
OTU_340	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_salivarius
OTU_4790	Firmicutes	Lactobacillaceae	Lactobacillus	Lactobacillus_sp_MbBipro17
OTU_4019	Firmicutes	Lactobacillaceae	Lactobacillus	
OTU_2649	Firmicutes	Lactobacillaceae	Lactobacillus	
OTU_3391	Firmicutes	Lactobacillaceae	Lactobacillus	
OTU_4610	Firmicutes	Lactobacillaceae	Lactobacillus	
OTU_1181	Firmicutes	Lactobacillaceae	Lactobacillus	
OTU_2422	Firmicutes	Lactobacillaceae	Lactobacillus	
OTU_10	Firmicutes	Lactobacillaceae	Lactobacillus	

OTU_3067	Firmicutes	Lactobacillaceae	Lactobacillus
OTU_4591	Firmicutes	Lactobacillaceae	Lactobacillus
OTU_2788	Firmicutes	Lactobacillaceae	Lactobacillus
OTU_4633	Firmicutes	Lactobacillaceae	Lactobacillus
OTU_3819	Firmicutes	Lactobacillaceae	Lactobacillus
OTU_1882	Firmicutes	Lactobacillaceae	Lactobacillus
OTU_1050	Firmicutes	Lactobacillaceae	Lactobacillus
OTU_3384	Firmicutes	Lactobacillaceae	Lactobacillus
OTU_4169	Firmicutes	Lactobacillaceae	Lactobacillus
OTU_3689	Firmicutes	Lactobacillaceae	Lactobacillus
OTU_3028	Firmicutes	Lactobacillaceae	Lactobacillus
OTU_4080	Firmicutes	Lactobacillaceae	Lactobacillus
OTU_1	Firmicutes	Lactobacillaceae	Lactobacillus
OTU_7	Firmicutes	Lactobacillaceae	Lactobacillus
OTU_2034	Firmicutes	Lactobacillaceae	Lactobacillus
OTU_3500	Firmicutes	Lactobacillaceae	Lactobacillus
OTU_4561	Firmicutes	Lactobacillaceae	Lactobacillus

OTU_4355	Firmicutes	Lactobacillaceae	Lactobacillus	
OTU_3402	Firmicutes	Lactobacillaceae	Lactobacillus	
OTU_2568	Firmicutes	Lactobacillaceae	Lactobacillus	
OTU_3744	Firmicutes	Lactobacillaceae	Lactobacillus	
OTU_4036	Firmicutes	Lactobacillaceae	Lactobacillus	
OTU_3075	Firmicutes	Lachnospiraceae	Tyzzereella	[Clostridium]_propionicum
OTU_104	Firmicutes	Lachnospiraceae	Tyzzereella	
OTU_684	Firmicutes	Lachnospiraceae	Tyzzereella	
OTU_2908	Firmicutes	Lachnospiraceae	Tyzzereella	
OTU_3025	Firmicutes	Lachnospiraceae	Shuttleworthia	Clostridium_sp_SY8519
OTU_1014	Firmicutes	Lachnospiraceae	Sellimonas	
OTU_1990	Firmicutes	Lachnospiraceae	Roseburia	Eubacterium_plexicaudatum
OTU_3097	Firmicutes	Lachnospiraceae	Roseburia	Eubacterium_sp_14-2
OTU_2673	Firmicutes	Lachnospiraceae	Roseburia	Roseburia_sp_499
OTU_2547	Firmicutes	Lachnospiraceae	Roseburia	
OTU_2967	Firmicutes	Lachnospiraceae	Roseburia	
OTU_1007	Firmicutes	Lachnospiraceae	Roseburia	

OTU_639	Firmicutes	Lachnospiraceae	Roseburia
OTU_2053	Firmicutes	Lachnospiraceae	Roseburia
OTU_1237	Firmicutes	Lachnospiraceae	Roseburia
OTU_3008	Firmicutes	Lachnospiraceae	Roseburia
OTU_657	Firmicutes	Lachnospiraceae	Roseburia
OTU_86	Firmicutes	Lachnospiraceae	Roseburia
OTU_2516	Firmicutes	Lachnospiraceae	Roseburia
OTU_3011	Firmicutes	Lachnospiraceae	Roseburia
OTU_2723	Firmicutes	Lachnospiraceae	Roseburia
OTU_1089	Firmicutes	Lachnospiraceae	Roseburia
OTU_2358	Firmicutes	Lachnospiraceae	Roseburia
OTU_1581	Firmicutes	Lachnospiraceae	Roseburia
OTU_1644	Firmicutes	Lachnospiraceae	Pseudobutyrvibrio
OTU_1318	Firmicutes	Lachnospiraceae	Oribacterium
OTU_670	Firmicutes	Lachnospiraceae	Oribacterium
OTU_4589	Firmicutes	Lachnospiraceae	Oribacterium
OTU_904	Firmicutes	Lachnospiraceae	Oribacterium

OTU_401	Firmicutes	Lachnospiraceae	Oribacterium	
OTU_528	Firmicutes	Lachnospiraceae	Marvinbryantia	
OTU_622	Firmicutes	Lachnospiraceae	Lachnospira	
OTU_11	Firmicutes	Lachnospiraceae	Lachnospira	
OTU_1249	Firmicutes	Lachnospiraceae	Lachnospira	
OTU_823	Firmicutes	Lachnospiraceae	Lachnospira	
OTU_543	Firmicutes	Lachnospiraceae	Lachnospira	
OTU_2223	Firmicutes	Lachnospiraceae	Lachnospira	
OTU_4506	Firmicutes	Lachnospiraceae	Lachnoclostridium	[Clostridium]_glycyrrhizinilyticum
OTU_3740	Firmicutes	Lachnospiraceae	Lachnoclostridium	[Clostridium]_lavalense
OTU_1396	Firmicutes	Lachnospiraceae	Lachnoclostridium	[Clostridium]_symbiosum
OTU_1650	Firmicutes	Lachnospiraceae	Lachnoclostridium	
OTU_1717	Firmicutes	Lachnospiraceae	Lachnoclostridium	
OTU_914	Firmicutes	Lachnospiraceae	Lachnoclostridium	
OTU_3567	Firmicutes	Lachnospiraceae	Lachnoclostridium	
OTU_1667	Firmicutes	Lachnospiraceae	Lachnoanaerobaculum	
OTU_1443	Firmicutes	Lachnospiraceae	Johnsonella	

OTU_3333	Firmicutes	Lachnospiraceae	Hungatella	
OTU_1364	Firmicutes	Lachnospiraceae	Howardella	
OTU_1839	Firmicutes	Lachnospiraceae	Fusicatenibacter	
OTU_4229	Firmicutes	Lachnospiraceae	Epulopiscium	
OTU_1074	Firmicutes	Lachnospiraceae	Epulopiscium	
OTU_2941	Firmicutes	Lachnospiraceae	Eisenbergiella	
OTU_1043	Firmicutes	Lachnospiraceae	Eisenbergiella	
OTU_4283	Firmicutes	Lachnospiraceae	Eisenbergiella	
OTU_25	Firmicutes	Lachnospiraceae	Dorea	Dorea_formicigenerans
OTU_979	Firmicutes	Lachnospiraceae	Cellulosilyticum	Metabacterium_polyspora
OTU_2362	Firmicutes	Lachnospiraceae	Cellulosilyticum	
OTU_2552	Firmicutes	Lachnospiraceae	Cellulosilyticum	
OTU_1598	Firmicutes	Lachnospiraceae	Cellulosilyticum	
OTU_2092	Firmicutes	Lachnospiraceae	Cellulosilyticum	
OTU_3575	Firmicutes	Lachnospiraceae	Cellulosilyticum	
OTU_3216	Firmicutes	Lachnospiraceae	Butyrivibrio	
OTU_141	Firmicutes	Lachnospiraceae	Butyrivibrio	

OTU_87	Firmicutes	Lachnospiraceae	Blautia	Blautia_glucerasea
OTU_2779	Firmicutes	Lachnospiraceae	Blautia	Blautia_sp_YL58
OTU_974	Firmicutes	Lachnospiraceae	Blautia	Lachnospiraceae_bacterium_615
OTU_1441	Firmicutes	Lachnospiraceae	Blautia	Lachnospiraceae_bacterium_DW59
OTU_350	Firmicutes	Lachnospiraceae	Blautia	Ruminococcus_sp_5_1_39BFAA
OTU_3627	Firmicutes	Lachnospiraceae	Blautia	Ruminococcus_sp_Marseille-P328
OTU_2805	Firmicutes	Lachnospiraceae	Blautia	
OTU_2731	Firmicutes	Lachnospiraceae	Blautia	
OTU_2130	Firmicutes	Lachnospiraceae	Blautia	
OTU_212	Firmicutes	Lachnospiraceae	Blautia	
OTU_1461	Firmicutes	Lachnospiraceae	Blautia	
OTU_1275	Firmicutes	Lachnospiraceae	Blautia	
OTU_341	Firmicutes	Lachnospiraceae	Anaerostipes	
OTU_373	Firmicutes	Lachnospiraceae	Anaerostipes	
OTU_93	Firmicutes	Lachnospiraceae	Anaerostipes	
OTU_2204	Firmicutes	Lachnospiraceae	Anaerosporobacter	
OTU_4900	Firmicutes	Lachnospiraceae	Anaerosporobacter	

OTU_4192	Firmicutes	Lachnospiraceae	Acetitomaculum	
OTU_2957	Firmicutes	Lachnospiraceae	Acetitomaculum	
OTU_1962	Firmicutes	Lachnospiraceae	Acetatifactor	
OTU_1698	Firmicutes	Lachnospiraceae	Acetatifactor	
OTU_63	Firmicutes	Lachnospiraceae		[Bacteroides]_pectinophilus
OTU_2203	Firmicutes	Lachnospiraceae		[Clostridium]_colinum
OTU_253	Firmicutes	Lachnospiraceae		[Clostridium]_colinum
OTU_3035	Firmicutes	Lachnospiraceae		[Clostridium]_colinum
OTU_2821	Firmicutes	Lachnospiraceae		[Clostridium]_colinum
OTU_2633	Firmicutes	Lachnospiraceae		[Eubacterium]_hallii
OTU_1264	Firmicutes	Lachnospiraceae		[Ruminococcus]_gnavus
OTU_2732	Firmicutes	Lachnospiraceae		Acetivibrio_ethanolgignens
OTU_4048	Firmicutes	Lachnospiraceae		bacterium_XBD2001
OTU_697	Firmicutes	Lachnospiraceae		Blautia_coccoides
OTU_1107	Firmicutes	Lachnospiraceae		butyrate-producing_bacterium_L2-10
OTU_1792	Firmicutes	Lachnospiraceae		Butyrivibrio_hungatei
OTU_4493	Firmicutes	Lachnospiraceae		Clostridiaceae_bacterium_SH032

OTU_2528	Firmicutes	Lachnospiraceae	Clostridiales_bacterium_CIEAF_020
OTU_90	Firmicutes	Lachnospiraceae	Clostridiales_bacterium_CIEAF_020
OTU_3192	Firmicutes	Lachnospiraceae	Clostridiales_bacterium_CIEAF_020
OTU_3176	Firmicutes	Lachnospiraceae	Clostridiales_bacterium_CIEAF_020
OTU_1912	Firmicutes	Lachnospiraceae	Clostridium_sp_ASF356
OTU_1678	Firmicutes	Lachnospiraceae	Clostridium_sp_Clone-17
OTU_2219	Firmicutes	Lachnospiraceae	Clostridium_sp_Culture-27
OTU_525	Firmicutes	Lachnospiraceae	Clostridium_sp_Culture-54
OTU_1333	Firmicutes	Lachnospiraceae	Clostridium_sp_ID5
OTU_508	Firmicutes	Lachnospiraceae	Clostridium_sp_L2-50
OTU_2979	Firmicutes	Lachnospiraceae	Coprococcus_eutactus
OTU_566	Firmicutes	Lachnospiraceae	Eubacterium_ventriosum
OTU_2994	Firmicutes	Lachnospiraceae	Lachnospiraceae_bacterium_AC2029
OTU_4746	Firmicutes	Lachnospiraceae	Lachnospiraceae_bacterium_AC2031
OTU_402	Firmicutes	Lachnospiraceae	Lachnospiraceae_bacterium_COE1
OTU_2465	Firmicutes	Lachnospiraceae	Lachnospiraceae_bacterium_DJF_VP52
OTU_431	Firmicutes	Lachnospiraceae	Trichinella_pseudospiralis

OTU_516	Firmicutes	Lachnospiraceae
OTU_883	Firmicutes	Lachnospiraceae
OTU_4655	Firmicutes	Lachnospiraceae
OTU_3855	Firmicutes	Lachnospiraceae
OTU_870	Firmicutes	Lachnospiraceae
OTU_3695	Firmicutes	Lachnospiraceae
OTU_2892	Firmicutes	Lachnospiraceae
OTU_4708	Firmicutes	Lachnospiraceae
OTU_2721	Firmicutes	Lachnospiraceae
OTU_4846	Firmicutes	Lachnospiraceae
OTU_2478	Firmicutes	Lachnospiraceae
OTU_229	Firmicutes	Lachnospiraceae
OTU_1613	Firmicutes	Lachnospiraceae
OTU_96	Firmicutes	Lachnospiraceae
OTU_1448	Firmicutes	Lachnospiraceae
OTU_4578	Firmicutes	Lachnospiraceae
OTU_4565	Firmicutes	Lachnospiraceae

Tyzzarella_sp_Marseille-P3062

OTU_4199	Firmicutes	Lachnospiraceae
OTU_1587	Firmicutes	Lachnospiraceae
OTU_2599	Firmicutes	Lachnospiraceae
OTU_3426	Firmicutes	Lachnospiraceae
OTU_3558	Firmicutes	Lachnospiraceae
OTU_432	Firmicutes	Lachnospiraceae
OTU_437	Firmicutes	Lachnospiraceae
OTU_718	Firmicutes	Lachnospiraceae
OTU_249	Firmicutes	Lachnospiraceae
OTU_1158	Firmicutes	Lachnospiraceae
OTU_1034	Firmicutes	Lachnospiraceae
OTU_3305	Firmicutes	Lachnospiraceae
OTU_1759	Firmicutes	Lachnospiraceae
OTU_1268	Firmicutes	Lachnospiraceae
OTU_2838	Firmicutes	Lachnospiraceae
OTU_2366	Firmicutes	Lachnospiraceae
OTU_2364	Firmicutes	Lachnospiraceae

OTU_1811	Firmicutes	Lachnospiraceae
OTU_2542	Firmicutes	Lachnospiraceae
OTU_555	Firmicutes	Lachnospiraceae
OTU_4524	Firmicutes	Lachnospiraceae
OTU_4525	Firmicutes	Lachnospiraceae
OTU_4529	Firmicutes	Lachnospiraceae
OTU_512	Firmicutes	Lachnospiraceae
OTU_336	Firmicutes	Lachnospiraceae
OTU_335	Firmicutes	Lachnospiraceae
OTU_1724	Firmicutes	Lachnospiraceae
OTU_4236	Firmicutes	Lachnospiraceae
OTU_4237	Firmicutes	Lachnospiraceae
OTU_3231	Firmicutes	Lachnospiraceae
OTU_2966	Firmicutes	Lachnospiraceae
OTU_2961	Firmicutes	Lachnospiraceae
OTU_429	Firmicutes	Lachnospiraceae
OTU_425	Firmicutes	Lachnospiraceae

OTU_420	Firmicutes	Lachnospiraceae
OTU_4658	Firmicutes	Lachnospiraceae
OTU_4309	Firmicutes	Lachnospiraceae
OTU_4653	Firmicutes	Lachnospiraceae
OTU_1147	Firmicutes	Lachnospiraceae
OTU_3890	Firmicutes	Lachnospiraceae
OTU_3955	Firmicutes	Lachnospiraceae
OTU_1317	Firmicutes	Lachnospiraceae
OTU_2056	Firmicutes	Lachnospiraceae
OTU_1956	Firmicutes	Lachnospiraceae
OTU_1561	Firmicutes	Lachnospiraceae
OTU_1564	Firmicutes	Lachnospiraceae
OTU_1455	Firmicutes	Lachnospiraceae
OTU_2370	Firmicutes	Lachnospiraceae
OTU_2375	Firmicutes	Lachnospiraceae
OTU_2559	Firmicutes	Lachnospiraceae
OTU_2158	Firmicutes	Lachnospiraceae

OTU_2154	Firmicutes	Lachnospiraceae
OTU_526	Firmicutes	Lachnospiraceae
OTU_4270	Firmicutes	Lachnospiraceae
OTU_50	Firmicutes	Lachnospiraceae
OTU_1797	Firmicutes	Lachnospiraceae
OTU_185	Firmicutes	Lachnospiraceae
OTU_3205	Firmicutes	Lachnospiraceae
OTU_4001	Firmicutes	Lachnospiraceae
OTU_4003	Firmicutes	Lachnospiraceae
OTU_2973	Firmicutes	Lachnospiraceae
OTU_2971	Firmicutes	Lachnospiraceae
OTU_982	Firmicutes	Lachnospiraceae
OTU_4311	Firmicutes	Lachnospiraceae
OTU_1170	Firmicutes	Lachnospiraceae
OTU_1419	Firmicutes	Lachnospiraceae
OTU_1692	Firmicutes	Lachnospiraceae
OTU_1283	Firmicutes	Lachnospiraceae

OTU_1300	Firmicutes	Lachnospiraceae
OTU_2482	Firmicutes	Lachnospiraceae
OTU_1944	Firmicutes	Lachnospiraceae
OTU_2098	Firmicutes	Lachnospiraceae
OTU_3148	Firmicutes	Lachnospiraceae
OTU_3147	Firmicutes	Lachnospiraceae
OTU_2414	Firmicutes	Lachnospiraceae
OTU_539	Firmicutes	Lachnospiraceae
OTU_1245	Firmicutes	Lachnospiraceae
OTU_1540	Firmicutes	Lachnospiraceae
OTU_2932	Firmicutes	Lachnospiraceae
OTU_947	Firmicutes	Lachnospiraceae
OTU_4671	Firmicutes	Lachnospiraceae
OTU_4109	Firmicutes	Lachnospiraceae
OTU_4107	Firmicutes	Lachnospiraceae
OTU_1762	Firmicutes	Lachnospiraceae
OTU_347	Firmicutes	Lachnospiraceae

OTU_1379	Firmicutes	Lachnospiraceae
OTU_42	Firmicutes	Lachnospiraceae
OTU_2588	Firmicutes	Lachnospiraceae
OTU_4055	Firmicutes	Lachnospiraceae
OTU_3990	Firmicutes	Lachnospiraceae
OTU_342	Firmicutes	Lachnospiraceae
OTU_1979	Firmicutes	Lachnospiraceae
OTU_3854	Firmicutes	Lachnospiraceae
OTU_1998	Firmicutes	Lachnospiraceae
OTU_4668	Firmicutes	Lachnospiraceae
OTU_3456	Firmicutes	Lachnospiraceae
OTU_2402	Firmicutes	Lachnospiraceae
OTU_2407	Firmicutes	Lachnospiraceae
OTU_4803	Firmicutes	Lachnospiraceae
OTU_4804	Firmicutes	Lachnospiraceae
OTU_3684	Firmicutes	Lachnospiraceae
OTU_3043	Firmicutes	Lachnospiraceae

OTU_3666	Firmicutes	Lachnospiraceae
OTU_3667	Firmicutes	Lachnospiraceae
OTU_4242	Firmicutes	Lachnospiraceae
OTU_1422	Firmicutes	Lachnospiraceae
OTU_4660	Firmicutes	Lachnospiraceae
OTU_3464	Firmicutes	Lachnospiraceae
OTU_4119	Firmicutes	Lachnospiraceae
OTU_878	Firmicutes	Lachnospiraceae
OTU_3213	Firmicutes	Lachnospiraceae
OTU_3609	Firmicutes	Lachnospiraceae
OTU_4884	Firmicutes	Lachnospiraceae
OTU_1024	Firmicutes	Lachnospiraceae
OTU_2132	Firmicutes	Lachnospiraceae
OTU_4076	Firmicutes	Lachnospiraceae
OTU_3918	Firmicutes	Lachnospiraceae
OTU_1365	Firmicutes	Lachnospiraceae
OTU_1213	Firmicutes	Lachnospiraceae

OTU_1210	Firmicutes	Lachnospiraceae
OTU_3861	Firmicutes	Lachnospiraceae
OTU_2186	Firmicutes	Lachnospiraceae
OTU_2187	Firmicutes	Lachnospiraceae
OTU_2436	Firmicutes	Lachnospiraceae
OTU_2433	Firmicutes	Lachnospiraceae
OTU_2614	Firmicutes	Lachnospiraceae
OTU_2613	Firmicutes	Lachnospiraceae
OTU_4877	Firmicutes	Lachnospiraceae
OTU_3691	Firmicutes	Lachnospiraceae
OTU_3693	Firmicutes	Lachnospiraceae
OTU_3728	Firmicutes	Lachnospiraceae
OTU_3055	Firmicutes	Lachnospiraceae
OTU_4472	Firmicutes	Lachnospiraceae
OTU_43	Firmicutes	Lachnospiraceae
OTU_464	Firmicutes	Lachnospiraceae
OTU_266	Firmicutes	Lachnospiraceae

OTU_260	Firmicutes	Lachnospiraceae
OTU_261	Firmicutes	Lachnospiraceae
OTU_4611	Firmicutes	Lachnospiraceae
OTU_3475	Firmicutes	Lachnospiraceae
OTU_1187	Firmicutes	Lachnospiraceae
OTU_1743	Firmicutes	Lachnospiraceae
OTU_1748	Firmicutes	Lachnospiraceae
OTU_4058	Firmicutes	Lachnospiraceae
OTU_4726	Firmicutes	Lachnospiraceae
OTU_1533	Firmicutes	Lachnospiraceae
OTU_2982	Firmicutes	Lachnospiraceae
OTU_3723	Firmicutes	Lachnospiraceae
OTU_3905	Firmicutes	Lachnospiraceae
OTU_3815	Firmicutes	Lachnospiraceae
OTU_1465	Firmicutes	Lachnospiraceae
OTU_1228	Firmicutes	Lachnospiraceae
OTU_3350	Firmicutes	Lachnospiraceae

OTU_4833	Firmicutes	Lachnospiraceae
OTU_3596	Firmicutes	Lachnospiraceae
OTU_3116	Firmicutes	Lachnospiraceae
OTU_2425	Firmicutes	Lachnospiraceae
OTU_2608	Firmicutes	Lachnospiraceae
OTU_152	Firmicutes	Lachnospiraceae
OTU_4866	Firmicutes	Lachnospiraceae
OTU_2046	Firmicutes	Lachnospiraceae
OTU_3245	Firmicutes	Lachnospiraceae
OTU_389	Firmicutes	Lachnospiraceae
OTU_3443	Firmicutes	Lachnospiraceae
OTU_4609	Firmicutes	Lachnospiraceae
OTU_727	Firmicutes	Lachnospiraceae
OTU_1552	Firmicutes	Lachnospiraceae
OTU_1640	Firmicutes	Lachnospiraceae
OTU_2181	Firmicutes	Lachnospiraceae
OTU_1347	Firmicutes	Lachnospiraceae

OTU_1343	Firmicutes	Lachnospiraceae
OTU_207	Firmicutes	Lachnospiraceae
OTU_3545	Firmicutes	Lachnospiraceae
OTU_1235	Firmicutes	Lachnospiraceae
OTU_1234	Firmicutes	Lachnospiraceae
OTU_3800	Firmicutes	Lachnospiraceae
OTU_3801	Firmicutes	Lachnospiraceae
OTU_3808	Firmicutes	Lachnospiraceae
OTU_4014	Firmicutes	Lachnospiraceae
OTU_1076	Firmicutes	Lachnospiraceae
OTU_3431	Firmicutes	Lachnospiraceae
OTU_3072	Firmicutes	Lachnospiraceae
OTU_349	Firmicutes	Lachnospiraceae
OTU_667	Firmicutes	Lachnospiraceae
OTU_1501	Firmicutes	Lachnospiraceae
OTU_3257	Firmicutes	Lachnospiraceae
OTU_488	Firmicutes	Lachnospiraceae

OTU_712	Firmicutes	Lachnospiraceae
OTU_4638	Firmicutes	Lachnospiraceae
OTU_4639	Firmicutes	Lachnospiraceae
OTU_3493	Firmicutes	Lachnospiraceae
OTU_3494	Firmicutes	Lachnospiraceae
OTU_4149	Firmicutes	Lachnospiraceae
OTU_2853	Firmicutes	Lachnospiraceae
OTU_4704	Firmicutes	Lachnospiraceae
OTU_4702	Firmicutes	Lachnospiraceae
OTU_4700	Firmicutes	Lachnospiraceae
OTU_932	Firmicutes	Lachnospiraceae
OTU_1651	Firmicutes	Lachnospiraceae
OTU_1719	Firmicutes	Lachnospiraceae
OTU_4330	Firmicutes	Lachnospiraceae
OTU_2511	Firmicutes	Lachnospiraceae
OTU_1248	Firmicutes	Lachnospiraceae
OTU_1088	Firmicutes	Lachnospiraceae

OTU_1082	Firmicutes	Lachnospiraceae
OTU_3647	Firmicutes	Lachnospiraceae
OTU_1399	Firmicutes	Lachnospiraceae
OTU_1393	Firmicutes	Lachnospiraceae
OTU_1862	Firmicutes	Lachnospiraceae
OTU_2446	Firmicutes	Lachnospiraceae
OTU_1576	Firmicutes	Lachnospiraceae
OTU_2288	Firmicutes	Lachnospiraceae
OTU_2281	Firmicutes	Lachnospiraceae
OTU_2280	Firmicutes	Lachnospiraceae
OTU_3006	Firmicutes	Lachnospiraceae
OTU_1536	Firmicutes	Lachnospiraceae
OTU_2710	Firmicutes	Lachnospiraceae
OTU_4447	Firmicutes	Lachnospiraceae
OTU_3714	Firmicutes	Lachnospiraceae
OTU_3539	Firmicutes	Lachnospiraceae
OTU_1405	Firmicutes	Lachnospiraceae

OTU_4620	Firmicutes	Lachnospiraceae
OTU_4153	Firmicutes	Lachnospiraceae
OTU_1429	Firmicutes	Lachnospiraceae
OTU_3424	Firmicutes	Lachnospiraceae
OTU_1097	Firmicutes	Lachnospiraceae
OTU_1896	Firmicutes	Lachnospiraceae
OTU_1893	Firmicutes	Lachnospiraceae
OTU_1383	Firmicutes	Lachnospiraceae
OTU_1385	Firmicutes	Lachnospiraceae
OTU_2385	Firmicutes	Lachnospiraceae
OTU_2272	Firmicutes	Lachnospiraceae
OTU_2274	Firmicutes	Lachnospiraceae
OTU_3012	Firmicutes	Lachnospiraceae
OTU_3941	Firmicutes	Lachnospiraceae
OTU_3635	Firmicutes	Lachnospiraceae
OTU_3638	Firmicutes	Lachnospiraceae
OTU_2512	Firmicutes	Lachnospiraceae

OTU_4037	Firmicutes	Lachnospiraceae
OTU_4381	Firmicutes	Lachnospiraceae
OTU_408	Firmicutes	Lachnospiraceae
OTU_4272	Firmicutes	Lachnospiraceae
OTU_4543	Firmicutes	Lachnospiraceae
OTU_2876	Firmicutes	Lachnospiraceae
OTU_2877	Firmicutes	Lachnospiraceae
OTU_2874	Firmicutes	Lachnospiraceae
OTU_4584	Firmicutes	Lachnospiraceae
OTU_4201	Firmicutes	Lachnospiraceae
OTU_142	Firmicutes	Lachnospiraceae
OTU_4099	Firmicutes	Lachnospiraceae
OTU_4163	Firmicutes	Lachnospiraceae
OTU_4161	Firmicutes	Lachnospiraceae
OTU_129	Firmicutes	Lachnospiraceae
OTU_34	Firmicutes	Lachnospiraceae
OTU_1809	Firmicutes	Lachnospiraceae

OTU_1894	Firmicutes	Lachnospiraceae
OTU_4552	Firmicutes	Lachnospiraceae
OTU_2395	Firmicutes	Lachnospiraceae
OTU_2391	Firmicutes	Lachnospiraceae
OTU_122	Firmicutes	Lachnospiraceae
OTU_2467	Firmicutes	Lachnospiraceae
OTU_756	Firmicutes	Lachnospiraceae
OTU_2462	Firmicutes	Lachnospiraceae
OTU_2264	Firmicutes	Lachnospiraceae
OTU_1280	Firmicutes	Lachnospiraceae
OTU_1281	Firmicutes	Lachnospiraceae
OTU_2005	Firmicutes	Lachnospiraceae
OTU_2008	Firmicutes	Lachnospiraceae
OTU_3510	Firmicutes	Lachnospiraceae
OTU_2869	Firmicutes	Lachnospiraceae
OTU_4775	Firmicutes	Lachnospiraceae
OTU_3678	Firmicutes	Lachnospiraceae

OTU_3341	Firmicutes	Lachnospiraceae
OTU_290	Firmicutes	Lachnospiraceae
OTU_1025	Firmicutes	Lachnospiraceae
OTU_2562	Firmicutes	Lachnospiraceae
OTU_1110	Firmicutes	Lachnospiraceae
OTU_1117	Firmicutes	Lachnospiraceae
OTU_1856	Firmicutes	Lachnospiraceae
OTU_2256	Firmicutes	Lachnospiraceae
OTU_2257	Firmicutes	Lachnospiraceae
OTU_682	Firmicutes	Lachnospiraceae
OTU_3037	Firmicutes	Lachnospiraceae
OTU_2031	Firmicutes	Lachnospiraceae
OTU_164	Firmicutes	Lachnospiraceae
OTU_4412	Firmicutes	Lachnospiraceae
OTU_4417	Firmicutes	Lachnospiraceae
OTU_4418	Firmicutes	Lachnospiraceae
OTU_2109	Firmicutes	Lachnospiraceae

OTU_2105	Firmicutes	Lachnospiraceae
OTU_595	Firmicutes	Lachnospiraceae
OTU_4569	Firmicutes	Lachnospiraceae
OTU_2819	Firmicutes	Lachnospiraceae
OTU_4346	Firmicutes	Lachnospiraceae
OTU_648	Firmicutes	Lachnospiraceae
OTU_2135	Firmicutes	Lachnospiraceae
OTU_4021	Firmicutes	Lachnospiraceae
OTU_2036	Firmicutes	Lachnospiraceae
OTU_3729	Firmicutes	Lachnospiraceae
OTU_1048	Firmicutes	Lachnospiraceae
OTU_1820	Firmicutes	Lachnospiraceae
OTU_2246	Firmicutes	Lachnospiraceae
OTU_1919	Firmicutes	Lachnospiraceae
OTU_2688	Firmicutes	Lachnospiraceae
OTU_177	Firmicutes	Lachnospiraceae
OTU_2023	Firmicutes	Lachnospiraceae

OTU_4405	Firmicutes	Lachnospiraceae
OTU_4401	Firmicutes	Lachnospiraceae
OTU_4400	Firmicutes	Lachnospiraceae
OTU_3754	Firmicutes	Lachnospiraceae
OTU_111	Firmicutes	Lachnospiraceae
OTU_565	Firmicutes	Lachnospiraceae
OTU_560	Firmicutes	Lachnospiraceae
OTU_3376	Firmicutes	Lachnospiraceae
OTU_3373	Firmicutes	Lachnospiraceae
OTU_1100	Firmicutes	Lachnospiraceae
OTU_304	Firmicutes	Lachnospiraceae
OTU_1593	Firmicutes	Lachnospiraceae
OTU_1669	Firmicutes	Lachnospiraceae
OTU_2931	Firmicutes	Lachnospiraceae
OTU_2935	Firmicutes	Lachnospiraceae
OTU_785	Firmicutes	Lachnospiraceae
OTU_4190	Firmicutes	Lachnospiraceae

OTU_3979	Firmicutes	Lachnospiraceae
OTU_2896	Firmicutes	Lachnospiraceae
OTU_4366	Firmicutes	Lachnospiraceae
OTU_2234	Firmicutes	Lachnospiraceae
OTU_2230	Firmicutes	Lachnospiraceae
OTU_1906	Firmicutes	Lachnospiraceae
OTU_2891	Firmicutes	Lachnospiraceae
OTU_778	Firmicutes	Lachnospiraceae
OTU_2349	Firmicutes	Lachnospiraceae
OTU_2879	Firmicutes	Lachnospiraceae
OTU_2575	Firmicutes	Lachnospiraceae
OTU_412	Firmicutes	Lachnospiraceae
OTU_245	Firmicutes	Lachnospiraceae
OTU_2695	Firmicutes	Lachnospiraceae
OTU_3183	Firmicutes	Lachnospiraceae
OTU_4695	Firmicutes	Lachnospiraceae
OTU_4764	Firmicutes	Lachnospiraceae

OTU_3365	Firmicutes	Lachnospiraceae
OTU_2764	Firmicutes	Lachnospiraceae
OTU_4091	Firmicutes	Lachnospiraceae
OTU_450	Firmicutes	Lachnospiraceae
OTU_4642	Firmicutes	Lachnospiraceae
OTU_311	Firmicutes	Lachnospiraceae
OTU_1583	Firmicutes	Lachnospiraceae
OTU_4219	Firmicutes	Lachnospiraceae
OTU_2682	Firmicutes	Lachnospiraceae
OTU_2825	Firmicutes	Lachnospiraceae
OTU_4035	Firmicutes	Lachnospiraceae
OTU_741	Firmicutes	Lachnospiraceae
OTU_2174	Firmicutes	Lachnospiraceae
OTU_3987	Firmicutes	Lachnospiraceae
OTU_2958	Firmicutes	Lachnospiraceae
OTU_3557	Firmicutes	Lachnospiraceae
OTU_1214	Firmicutes	Lachnospiraceae

OTU_4291	Firmicutes	Lachnospiraceae
OTU_4292	Firmicutes	Lachnospiraceae
OTU_132	Firmicutes	Lachnospiraceae
OTU_3655	Firmicutes	Lachnospiraceae
OTU_1021	Firmicutes	Lachnospiraceae
OTU_775	Firmicutes	Lachnospiraceae
OTU_78	Firmicutes	Lachnospiraceae
OTU_3758	Firmicutes	Lachnospiraceae
OTU_3986	Firmicutes	Lachnospiraceae
OTU_2706	Firmicutes	Lachnospiraceae
OTU_3980	Firmicutes	Lachnospiraceae
OTU_2222	Firmicutes	Lachnospiraceae
OTU_1829	Firmicutes	Lachnospiraceae
OTU_4822	Firmicutes	Lachnospiraceae
OTU_2591	Firmicutes	Lachnospiraceae
OTU_3087	Firmicutes	Lachnospiraceae
OTU_2169	Firmicutes	Lachnospiraceae

OTU_2686	Firmicutes	Lachnospiraceae	
OTU_3170	Firmicutes	Lachnospiraceae	
OTU_3799	Firmicutes	Lachnospiraceae	
OTU_3792	Firmicutes	Lachnospiraceae	
OTU_1113	Firmicutes	Lachnospiraceae	
OTU_549	Firmicutes	Lachnospiraceae	
OTU_3306	Firmicutes	Lachnospiraceae	
OTU_3310	Firmicutes	Lachnospiraceae	
OTU_4303	Chloroflexi	Ktedonobacteracea e	
OTU_4108	Chloroflexi	Ktedonobacteracea e	
OTU_1888	Actinobacteria	Kineosporiaceae	Quadrisphaera
OTU_3338	Proteobacteria	Kiloniellaceae	Pelagibius
OTU_2620	Actinobacteria	Jonesiaceae	Jonesia
OTU_2499	Actinobacteria	Intrasporangiaceae	Ornithinimicrobium
OTU_1843	Actinobacteria	Intrasporangiaceae	Ornithinimicrobium

OTU_4382	Actinobacteria	Intrasporangiaceae	Arsenicococcus	Arsenicococcus_bolidensis
OTU_1382	Actinobacteria	Intrasporangiaceae		
OTU_1449	Actinobacteria	Intrasporangiaceae		
OTU_513	Actinobacteria	Intrasporangiaceae		
OTU_3289	Proteobacteria	Idiomarinaceae	Aliidiomarina	
OTU_1509	Actinobacteria	Iamiaceae	Iamia	
OTU_1929	Actinobacteria	Iamiaceae	Iamia	
OTU_1994	Actinobacteria	Iamiaceae	Iamia	
OTU_2125	Actinobacteria	Iamiaceae	Iamia	
OTU_2483	Actinobacteria	Iamiaceae	Iamia	
OTU_2882	Actinobacteria	Iamiaceae	Iamia	
OTU_2320	Proteobacteria	Hyphomonadaceae	Hirschia	
OTU_3347	Proteobacteria	Hyphomonadaceae		Woodsholea_maritima
OTU_4339	Proteobacteria	Hyphomonadaceae		

OTU_2381	Proteobacteria	Hyphomicrobiaceae	Pedomicrobium	
OTU_3297	Proteobacteria	Hyphomicrobiaceae	Hyphomicrobium	Hyphomicrobium_sp_MC1
OTU_2533	Bacteroidetes	Hymenobacteraceae	Pontibacter	
OTU_4360	Bacteroidetes	Hymenobacteraceae	Hymenobacter	
OTU_2142	Bacteroidetes	Hymenobacteraceae	Adhaeribacter	Adhaeribacter_terreus
OTU_2213	Bacteroidetes	Hymenobacteraceae	Adhaeribacter	
OTU_3155	Bacteroidetes	Hymenobacteraceae	Adhaeribacter	
OTU_4245	Proteobacteria	Hydrogenophilaceae	Thiobacillus	
OTU_31		Helicobacteraceae	Helicobacter	Helicobacter_cholecystus

OTU_4122		Helicobacteraceae	Helicobacter	Helicobacter_cholecystus
OTU_2558		Helicobacteraceae	Helicobacter	Helicobacter_cholecystus
OTU_2813		Helicobacteraceae	Helicobacter	Helicobacter_cholecystus
OTU_4728		Helicobacteraceae	Helicobacter	Helicobacter_ganmani
OTU_2063		Helicobacteraceae	Helicobacter	Helicobacter_hepaticus
OTU_299		Helicobacteraceae	Helicobacter	Helicobacter_mastomyrinus
OTU_2077		Helicobacteraceae	Helicobacter	Helicobacter_muridarum
OTU_162		Helicobacteraceae	Helicobacter	Helicobacter_sp_MIT_01-6451
OTU_2470		Helicobacteraceae	Helicobacter	Helicobacter_suis
OTU_66		Helicobacteraceae	Helicobacter	
OTU_3821		Helicobacteraceae	Helicobacter	
OTU_4087		Helicobacteraceae	Helicobacter	
OTU_2		Helicobacteraceae	Helicobacter	
OTU_2113		Helicobacteraceae	Helicobacter	
OTU_4104	Proteobacteria	Halomonadaceae	Halomonas	
OTU_2314	Proteobacteria	Halomonadaceae	Halomonas	
OTU_708	Proteobacteria	Halomonadaceae	Halomonas	

OTU_1900	Proteobacteria	Halomonadaceae	Halomonas	
OTU_3099	Proteobacteria	Haliangiaceae	Haliangium	Kofleria_flava
OTU_2830	Proteobacteria	Haliangiaceae	Haliangium	
OTU_2189	Proteobacteria	Haliangiaceae	Haliangium	
OTU_3159	Proteobacteria	Haliangiaceae	Haliangium	
OTU_4474	Proteobacteria	Haliangiaceae	Haliangium	
OTU_4315	Proteobacteria	Haliangiaceae	Haliangium	
OTU_4047	Proteobacteria	Haliangiaceae	Haliangium	
OTU_3685	Proteobacteria	Haliangiaceae	Haliangium	
OTU_3343	Proteobacteria	Haliangiaceae	Haliangium	
OTU_2255	Proteobacteria	Haliangiaceae	Haliangium	
OTU_2748	Proteobacteria	Haliangiaceae	Haliangium	
OTU_4186	Proteobacteria	Haliangiaceae	Haliangium	
OTU_4890	Proteobacteria	Haliangiaceae	Haliangium	
OTU_3369	Proteobacteria	Haliangiaceae	Haliangium	
OTU_2760	Proteobacteria	Haliangiaceae	Haliangium	
OTU_2549	Actinobacteria	Glycomycetaceae	Glycomyces	

OTU_1817	Actinobacteria	Geodermatophilac eae	Blastococcus
OTU_4748	Actinobacteria	Geodermatophilac eae	Antricoccus
OTU_2924	Proteobacteria	Geobacteraceae	Geobacter
OTU_4204	Gemmatimonad etes	Gemmatimonadac eae	Gemmatimonas
OTU_4101	Gemmatimonad etes	Gemmatimonadac eae	Gemmatimonas
OTU_4137	Gemmatimonad etes	Gemmatimonadac eae	Gemmatimonas
OTU_4145	Gemmatimonad etes	Gemmatimonadac eae	Gemmatimonas
OTU_4307	Gemmatimonad etes	Gemmatimonadac eae	Gemmatimonas
OTU_3383	Gemmatimonad etes	Gemmatimonadac eae	Gemmatimonas

OTU_4388	Gemmatimonadetes	Gemmatimonadaceae	Gemmatimonas	
OTU_4088	Gemmatimonadetes	Gemmatimonadaceae	Gemmatimonas	
OTU_4566	Gemmatimonadetes	Gemmatimonadaceae	Gemmatimonas	
OTU_3415	Gemmatimonadetes	Gemmatimonadaceae	Gemmatimonas	
OTU_4290	Gemmatimonadetes	Gemmatimonadaceae	Gemmatimonas	
OTU_4556	Gemmatimonadetes	Gemmatimonadaceae		Gemmatimonadetes_bacterium_LX87
OTU_4785	Gemmatimonadetes	Gemmatimonadaceae		Gemmatimonas_sp_WX54
OTU_3782	Gemmatimonadetes	Gemmatimonadaceae		
OTU_3577	Gemmatimonadetes	Gemmatimonadaceae		

	etes	eae
OTU_2551	Gemmatimonad	Gemmatimonadac
	etes	eae
OTU_1948	Gemmatimonad	Gemmatimonadac
	etes	eae
OTU_1803	Gemmatimonad	Gemmatimonadac
	etes	eae
OTU_2945	Gemmatimonad	Gemmatimonadac
	etes	eae
OTU_2164	Gemmatimonad	Gemmatimonadac
	etes	eae
OTU_4131	Gemmatimonad	Gemmatimonadac
	etes	eae
OTU_2676	Gemmatimonad	Gemmatimonadac
	etes	eae
OTU_4895	Gemmatimonad	Gemmatimonadac
	etes	eae

OTU_4778	Gemmatimonadetes	Gemmatimonadaceae	
OTU_4540	Gemmatimonadetes	Gemmatimonadaceae	
OTU_3741	Gemmatimonadetes	Gemmatimonadaceae	
OTU_4687	Gemmatimonadetes	Gemmatimonadaceae	
OTU_3940	Gemmatimonadetes	Gemmatimonadaceae	
OTU_3506	Planctomycetes	Gemmataceae	
OTU_2997	Planctomycetes	Gemmataceae	
OTU_2770	Planctomycetes	Gemmataceae	
OTU_3336	Proteobacteria	Geminicoccaceae	Candidatus
OTU_3803	Proteobacteria	Geminicoccaceae	
OTU_3027	Proteobacteria	Geminicoccaceae	
OTU_4896	Proteobacteria	Geminicoccaceae	

OTU_3972	Proteobacteria	Geminicoccaceae		
OTU_1970	Actinobacteria	Gaiellaceae	Gaiella	
OTU_2715	Fusobacteria	Fusobacteriaceae	Psychrilyobacter	
OTU_476	Fusobacteria	Fusobacteriaceae	Fusobacterium	Fusobacterium_canifelinum
OTU_317	Fusobacteria	Fusobacteriaceae	Fusobacterium	Fusobacterium_russii
OTU_538	Fusobacteria	Fusobacteriaceae	Fusobacterium	
OTU_12	Fusobacteria	Fusobacteriaceae	Fusobacterium	
OTU_2044	Fusobacteria	Fusobacteriaceae	Fusobacterium	
OTU_1868	Fusobacteria	Fusobacteriaceae	Fusobacterium	
OTU_1675	Fusobacteria	Fusobacteriaceae	Fusobacterium	
OTU_1981	Fusobacteria	Fusobacteriaceae	Cetobacterium	
OTU_4011	Fusobacteria	Fusobacteriaceae	Cetobacterium	
OTU_4564	Actinobacteria	Frankiaceae	Frankia	
OTU_4073	Bacteroidetes	Flavobacteriaceae	Salinimicrobium	
OTU_2647	Bacteroidetes	Flavobacteriaceae	Salegentibacter	
OTU_3508	Bacteroidetes	Flavobacteriaceae	Salegentibacter	
OTU_4512	Bacteroidetes	Flavobacteriaceae	Myroides	Myroides_odoratus

OTU_3920	Bacteroidetes	Flavobacteriaceae	Myroides	Myroides_phaeus
OTU_662	Bacteroidetes	Flavobacteriaceae	Myroides	Myroides_phaeus
OTU_2919	Bacteroidetes	Flavobacteriaceae	Myroides	
OTU_4575	Bacteroidetes	Flavobacteriaceae	Muricauda	
OTU_2334	Bacteroidetes	Flavobacteriaceae	Gramella	
OTU_3122	Bacteroidetes	Flavobacteriaceae	Galbibacter	Galbibacter_marinus
OTU_3643	Bacteroidetes	Flavobacteriaceae	Flavobacterium	Flavobacterium_flevense
OTU_798	Bacteroidetes	Flavobacteriaceae	Flavobacterium	Flavobacterium_sp_M1_I3
OTU_1779	Bacteroidetes	Flavobacteriaceae	Flavobacterium	
OTU_4530	Bacteroidetes	Flavobacteriaceae	Flavobacterium	
OTU_1218	Bacteroidetes	Flavobacteriaceae	Flavobacterium	
OTU_3056	Bacteroidetes	Flavobacteriaceae	Flavobacterium	
OTU_2881	Bacteroidetes	Flavobacteriaceae	Flavobacterium	
OTU_3167	Bacteroidetes	Flavobacteriaceae	Capnocytophaga	Capnocytophaga_sputigena
OTU_3902	Bacteroidetes	Flavobacteriaceae	Arenibacter	
OTU_2772	Fibrobacteres	Fibrobacteraceae	Fibrobacter	Fibrobacter_sp
OTU_1579	Fibrobacteres	Fibrobacteraceae	Fibrobacter	Fibrobacter_sp_UWOS

OTU_2848	Fibrobacteres	Fibrobacteraceae	Fibrobacter	
OTU_3139	Fibrobacteres	Fibrobacteraceae	Fibrobacter	
OTU_4476	Firmicutes	Eubacteriaceae	Eubacterium	Eubacterium_barkeri
OTU_23	Firmicutes	Eubacteriaceae	Eubacterium	Eubacterium_limosum
OTU_2492	Firmicutes	Eubacteriaceae	Eubacterium	Eubacterium_limosum
OTU_3195	Firmicutes	Eubacteriaceae	Anaerofustis	Anaerofustis_sp_Marseille-P2441
OTU_3236	Firmicutes	Eubacteriaceae	Anaerofustis	
OTU_1171	Firmicutes	Erysipelotrichaceae	Turcibacter	Turcibacter_sanguinis
OTU_64	Firmicutes	Erysipelotrichaceae	Turcibacter	
OTU_1754	Firmicutes	Erysipelotrichaceae	Solobacterium	Solobacterium_moorei
OTU_1391	Firmicutes	Erysipelotrichaceae	Solobacterium	
OTU_4717	Firmicutes	Erysipelotrichaceae	Solobacterium	

OTU_409	Firmicutes	Erysipelotrichacea e	Solobacterium	
OTU_3581	Firmicutes	Erysipelotrichacea e	Kandleria	Kandleria_vitulina
OTU_2747	Firmicutes	Erysipelotrichacea e	Ileibacterium	Ileibacterium_valens
OTU_1887	Firmicutes	Erysipelotrichacea e	Ileibacterium	
OTU_522	Firmicutes	Erysipelotrichacea e	Holdemania	
OTU_16	Firmicutes	Erysipelotrichacea e	Holdemanella	
OTU_3551	Firmicutes	Erysipelotrichacea e	Holdemanella	
OTU_3968	Firmicutes	Erysipelotrichacea e	Holdemanella	
OTU_2202	Firmicutes	Erysipelotrichacea	Faecalitalea	[Eubacterium]_dolichum

		e		
OTU_2403	Firmicutes	Erysipelotrichacea	Faecalitalea	[Eubacterium]_dolichum
		e		
OTU_1758	Firmicutes	Erysipelotrichacea	Faecalitalea	[Eubacterium]_dolichum
		e		
OTU_20	Firmicutes	Erysipelotrichacea	Faecalitalea	Eubacterium_sp_1-3
		e		
OTU_3648	Firmicutes	Erysipelotrichacea	Faecalitalea	Eubacterium_sp_1-3
		e		
OTU_1742	Firmicutes	Erysipelotrichacea	Faecalitalea	Faecalitalea_cylindroides
		e		
OTU_428	Firmicutes	Erysipelotrichacea	Faecalitalea	
		e		
OTU_1927	Firmicutes	Erysipelotrichacea	Faecalicoccus	
		e		
OTU_4568	Firmicutes	Erysipelotrichacea	Faecalicoccus	
		e		

OTU_231	Firmicutes	Erysipelotrichacea e	Faecalibaculum	Faecalibaculum_rodentium
OTU_987	Firmicutes	Erysipelotrichacea e	Faecalibaculum	
OTU_3038	Firmicutes	Erysipelotrichacea e	Faecalibaculum	
OTU_880	Firmicutes	Erysipelotrichacea e	Erysipelothrix	Erysipelothrix_rhusiopathiae
OTU_4496	Firmicutes	Erysipelotrichacea e	Erysipelothrix	Erysipelothrix_rhusiopathiae
OTU_2412	Firmicutes	Erysipelotrichacea e	Erysipelothrix	
OTU_3321	Firmicutes	Erysipelotrichacea e	Erysipelothrix	
OTU_1788	Firmicutes	Erysipelotrichacea e	Erysipelothrix	
OTU_3731	Firmicutes	Erysipelotrichacea	Erysipelothrix	

		e		
OTU_3946	Firmicutes	Erysipelotrichacea	Erysipelothrix	
		e		
OTU_3791	Firmicutes	Erysipelotrichacea	Erysipelothrix	
		e		
OTU_3359	Firmicutes	Erysipelotrichacea	Erysipelatoclostridium	bacterium_ic1391
		e	m	
OTU_26	Firmicutes	Erysipelotrichacea	Erysipelatoclostridium	Erysipelatoclostridium_ramosum
		e	m	
OTU_51	Firmicutes	Erysipelotrichacea	Erysipelatoclostridium	
		e		
OTU_4222	Firmicutes	Erysipelotrichacea	Erysipelatoclostridium	
		e		
OTU_1542	Firmicutes	Erysipelotrichacea	Erysipelatoclostridium	
		e		
OTU_272	Firmicutes	Erysipelotrichacea	Erysipelatoclostridium	
		e		

OTU_125	Firmicutes	Erysipelotrichacea e	Erysipelatoclostridium	
OTU_2763	Firmicutes	Erysipelotrichacea e	Erysipelatoclostridium	
OTU_2013	Firmicutes	Erysipelotrichacea e	Erysipelatoclostridium	
OTU_4414	Firmicutes	Erysipelotrichacea e	Erysipelatoclostridium	
OTU_3743	Firmicutes	Erysipelotrichacea e	Erysipelatoclostridium	
OTU_4510	Firmicutes	Erysipelotrichacea e	Erysipelatoclostridium	
OTU_3319	Firmicutes	Erysipelotrichacea e	Erysipelatoclostridium	
OTU_146	Firmicutes	Erysipelotrichacea e	Dubosiella	Firmicutes_bacterium_M10-2
OTU_3850	Firmicutes	Erysipelotrichacea	Dubosiella	Firmicutes_bacterium_M10-2

		e	
OTU_1507	Firmicutes	Erysipelotrichacea	Dubosiella
		e	
OTU_716	Firmicutes	Erysipelotrichacea	Dubosiella
		e	
OTU_1885	Firmicutes	Erysipelotrichacea	Dubosiella
		e	
OTU_4894	Firmicutes	Erysipelotrichacea	Dubosiella
		e	
OTU_825	Firmicutes	Erysipelotrichacea	Dielma
		e	
OTU_4430	Firmicutes	Erysipelotrichacea	Dielma
		e	
OTU_4060	Firmicutes	Erysipelotrichacea	Dielma
		e	
OTU_190	Firmicutes	Erysipelotrichacea	Dielma
		e	

OTU_1588	Firmicutes	Erysipelotrichacea e	Dielma
OTU_2179	Firmicutes	Erysipelotrichacea e	Dielma
OTU_3311	Firmicutes	Erysipelotrichacea e	Dielma
OTU_587	Firmicutes	Erysipelotrichacea e	Coprobacillus
OTU_2290	Firmicutes	Erysipelotrichacea e	Catenisphaera
OTU_4349	Firmicutes	Erysipelotrichacea e	Catenisphaera
OTU_818	Firmicutes	Erysipelotrichacea e	Catenisphaera
OTU_3407	Firmicutes	Erysipelotrichacea e	Catenibacterium
OTU_234	Firmicutes	Erysipelotrichacea	Candidatus

		e		
OTU_2027	Firmicutes	Erysipelotrichacea	Candidatus	
		e		
OTU_2119	Firmicutes	Erysipelotrichacea	Candidatus	
		e		
OTU_1123	Firmicutes	Erysipelotrichacea	Candidatus	
		e		
OTU_4871	Firmicutes	Erysipelotrichacea	Breznakia	
		e		
OTU_413	Firmicutes	Erysipelotrichacea	Asteroleplasma	
		e		
OTU_2968	Firmicutes	Erysipelotrichacea	Allobaculum	Allobaculum_stercoricanis
		e		
OTU_806	Firmicutes	Erysipelotrichacea	Allobaculum	
		e		
OTU_48	Firmicutes	Erysipelotrichacea	Allobaculum	
		e		

OTU_167	Firmicutes	Erysipelotrichacea e	Allobaculum
OTU_1560	Firmicutes	Erysipelotrichacea e	Allobaculum
OTU_3909	Firmicutes	Erysipelotrichacea e	Allobaculum
OTU_3742	Firmicutes	Erysipelotrichacea e	Allobaculum
OTU_4563	Firmicutes	Erysipelotrichacea e	Allobaculum
OTU_222	Firmicutes	Erysipelotrichacea e	Allobaculum
OTU_960	Firmicutes	Erysipelotrichacea e	Allobaculum
OTU_179	Firmicutes	Erysipelotrichacea e	Allobaculum
OTU_316	Firmicutes	Erysipelotrichacea	Allobaculum

		e		
OTU_2680	Firmicutes	Erysipelotrichacea	Allobaculum	
		e		
OTU_343	Firmicutes	Erysipelotrichacea		[Clostridium]_innocuum
		e		
OTU_355	Firmicutes	Erysipelotrichacea		bacterium_LF-3
		e		
OTU_1551	Firmicutes	Erysipelotrichacea		
		e		
OTU_55	Firmicutes	Erysipelotrichacea		
		e		
OTU_438	Firmicutes	Erysipelotrichacea		
		e		
OTU_79	Firmicutes	Erysipelotrichacea		
		e		
OTU_1327	Firmicutes	Erysipelotrichacea		
		e		

OTU_2792	Firmicutes	Erysipelotrichacea e
OTU_3842	Firmicutes	Erysipelotrichacea e
OTU_4585	Firmicutes	Erysipelotrichacea e
OTU_3335	Firmicutes	Erysipelotrichacea e
OTU_1791	Firmicutes	Erysipelotrichacea e
OTU_4353	Firmicutes	Erysipelotrichacea e
OTU_658	Firmicutes	Erysipelotrichacea e
OTU_843	Firmicutes	Erysipelotrichacea e
OTU_38	Firmicutes	Erysipelotrichacea

		e
OTU_3263	Firmicutes	Erysipelotrichacea
		e
OTU_4664	Firmicutes	Erysipelotrichacea
		e
OTU_3465	Firmicutes	Erysipelotrichacea
		e
OTU_872	Firmicutes	Erysipelotrichacea
		e
OTU_4888	Firmicutes	Erysipelotrichacea
		e
OTU_2321	Firmicutes	Erysipelotrichacea
		e
OTU_2269	Firmicutes	Erysipelotrichacea
		e
OTU_726	Firmicutes	Erysipelotrichacea
		e

OTU_1510	Firmicutes	Erysipelotrichacea e
OTU_2850	Firmicutes	Erysipelotrichacea e
OTU_1655	Firmicutes	Erysipelotrichacea e
OTU_4448	Firmicutes	Erysipelotrichacea e
OTU_2380	Firmicutes	Erysipelotrichacea e
OTU_4593	Firmicutes	Erysipelotrichacea e
OTU_4897	Firmicutes	Erysipelotrichacea e
OTU_173	Firmicutes	Erysipelotrichacea e
OTU_140	Firmicutes	Erysipelotrichacea

		e
OTU_175	Firmicutes	Erysipelotrichacea
		e
OTU_4423	Firmicutes	Erysipelotrichacea
		e
OTU_821	Firmicutes	Erysipelotrichacea
		e
OTU_692	Firmicutes	Erysipelotrichacea
		e
OTU_4081	Firmicutes	Erysipelotrichacea
		e
OTU_1023	Firmicutes	Erysipelotrichacea
		e
OTU_2250	Firmicutes	Erysipelotrichacea
		e
OTU_4819	Firmicutes	Erysipelotrichacea
		e

OTU_3291	Firmicutes	Erysipelotrichacea e
OTU_3505	Firmicutes	Erysipelotrichacea e
OTU_3504	Firmicutes	Erysipelotrichacea e
OTU_4023	Firmicutes	Erysipelotrichacea e
OTU_4184	Firmicutes	Erysipelotrichacea e
OTU_1911	Firmicutes	Erysipelotrichacea e
OTU_3525	Firmicutes	Erysipelotrichacea e
OTU_309	Firmicutes	Erysipelotrichacea e
OTU_787	Firmicutes	Erysipelotrichacea

		e		
OTU_312	Firmicutes	Erysipelotrichacea		
		e		
OTU_3981	Firmicutes	Erysipelotrichacea		
		e		
OTU_660	Firmicutes	Erysipelotrichacea		
		e		
OTU_955	Firmicutes	Erysipelotrichacea		
		e		
OTU_4683	Firmicutes	Erysipelotrichacea		
		e		
OTU_4511	Firmicutes	Erysipelotrichacea		
		e		
OTU_115	Firmicutes	Enterococcaceae	Vagococcus	Vagococcus_fluvialis
OTU_3261	Firmicutes	Enterococcaceae	Tetragenococcus	
OTU_2780	Firmicutes	Enterococcaceae	Enterococcus	Enterococcus_aquimarinus
OTU_1740	Firmicutes	Enterococcaceae	Enterococcus	Enterococcus_columbae

OTU_65	Firmicutes	Enterococcaceae	Enterococcus	Enterococcus_faecalis
OTU_4146	Firmicutes	Enterococcaceae	Enterococcus	
OTU_3734	Firmicutes	Enterococcaceae	Enterococcus	
OTU_3528	Firmicutes	Enterococcaceae	Enterococcus	
OTU_84	Firmicutes	Enterococcaceae	Enterococcus	
OTU_4839	Firmicutes	Enterococcaceae		
OTU_2243	Proteobacteria	Enterobacteriaceae	Providencia	Providencia_alcalifaciens
OTU_184	Proteobacteria	Enterobacteriaceae	Proteus	Proteus_mirabilis
OTU_911	Proteobacteria	Enterobacteriaceae	Plesiomonas	Plesiomonas_shigelloides
OTU_3832	Proteobacteria	Enterobacteriaceae	Pantoea	
OTU_1636	Proteobacteria	Enterobacteriaceae	Morganella	
OTU_698	Proteobacteria	Enterobacteriaceae	Kosakonia	Kosakonia_cowanii
OTU_1516	Proteobacteria	Enterobacteriaceae	Klebsiella	
OTU_574	Proteobacteria	Enterobacteriaceae	Edwardsiella	
OTU_2556	Proteobacteria	Enterobacteriaceae	Dickeya	Dickeya_zeae
OTU_1751	Proteobacteria	Enterobacteriaceae	Buchnera	
OTU_4244	Proteobacteria	Enterobacteriaceae		

OTU_242	Proteobacteria	Enterobacteriaceae		
OTU_3479	Proteobacteria	Enterobacteriaceae		
OTU_4498	Proteobacteria	Enterobacteriaceae		
OTU_2182	Proteobacteria	Enterobacteriaceae		
OTU_2787	Proteobacteria	Enterobacteriaceae		
OTU_14	Proteobacteria	Enterobacteriaceae		
OTU_2934	Proteobacteria	Enterobacteriaceae		
OTU_3701	Proteobacteria	Enterobacteriaceae		
OTU_3605	Proteobacteria	Enterobacteriaceae		
OTU_3753	Proteobacteria	Enterobacteriaceae		
OTU_1557	Proteobacteria	Enterobacteriaceae		
OTU_1630	Proteobacteria	Enterobacteriaceae		
OTU_1194	Elusimicrobia	Elusimicrobiaceae	Elusimicrobium	
OTU_383	Elusimicrobia	Elusimicrobiaceae	Elusimicrobium	
OTU_1706	Elusimicrobia	Elusimicrobiaceae	Elusimicrobium	
OTU_1108	Elusimicrobia	Elusimicrobiaceae	Elusimicrobium	
OTU_2216	Actinobacteria	Eggerthellaceae	Slackia	Slackia_piriformis

OTU_1172	Actinobacteria	Eggerthellaceae	Senegalimassilia	
OTU_1471	Actinobacteria	Eggerthellaceae	Parvibacter	
OTU_2563	Actinobacteria	Eggerthellaceae	Paraeggerthella	Paraeggerthella_hongkongensis
OTU_1486	Actinobacteria	Eggerthellaceae	Enterorhabdus	
OTU_790	Actinobacteria	Eggerthellaceae	Enterorhabdus	
OTU_2155	Actinobacteria	Eggerthellaceae	Enterorhabdus	
OTU_637	Actinobacteria	Eggerthellaceae	Enterorhabdus	
OTU_1016	Actinobacteria	Eggerthellaceae	Enterorhabdus	
OTU_2437	Actinobacteria	Eggerthellaceae	Enterorhabdus	
OTU_3628	Actinobacteria	Eggerthellaceae	Enterorhabdus	
OTU_2878	Actinobacteria	Eggerthellaceae	Enterorhabdus	
OTU_1849	Actinobacteria	Eggerthellaceae	Enterorhabdus	
OTU_1132	Actinobacteria	Eggerthellaceae	Enterorhabdus	
OTU_1105	Actinobacteria	Eggerthellaceae	Enterorhabdus	
OTU_747	Actinobacteria	Eggerthellaceae	Enterorhabdus	
OTU_2247	Actinobacteria	Eggerthellaceae	Enterorhabdus	
OTU_4691	Actinobacteria	Eggerthellaceae	Enterorhabdus	

OTU_1971	Actinobacteria	Eggerthellaceae	Enterorhabdus
OTU_1930	Actinobacteria	Eggerthellaceae	Enterorhabdus
OTU_2574	Actinobacteria	Eggerthellaceae	Enterorhabdus
OTU_4231	Actinobacteria	Eggerthellaceae	Adlercreutzia
OTU_3885	Actinobacteria	Eggerthellaceae	
OTU_1143	Actinobacteria	Eggerthellaceae	
OTU_1953	Actinobacteria	Eggerthellaceae	
OTU_1949	Actinobacteria	Eggerthellaceae	
OTU_2419	Actinobacteria	Eggerthellaceae	
OTU_1572	Actinobacteria	Eggerthellaceae	
OTU_980	Actinobacteria	Eggerthellaceae	
OTU_4515	Actinobacteria	Eggerthellaceae	
OTU_3129	Actinobacteria	Eggerthellaceae	
OTU_2193	Actinobacteria	Eggerthellaceae	
OTU_2298	Actinobacteria	Eggerthellaceae	
OTU_1726	Actinobacteria	Eggerthellaceae	
OTU_576	Actinobacteria	Eggerthellaceae	

OTU_1891	Actinobacteria	Eggerthellaceae		
OTU_3727	Actinobacteria	Eggerthellaceae		
OTU_1047	Actinobacteria	Eggerthellaceae		
OTU_2293	Actinobacteria	Eggerthellaceae		
OTU_771	Actinobacteria	Eggerthellaceae		
OTU_1586	Actinobacteria	Eggerthellaceae		
OTU_791	Actinobacteria	Eggerthellaceae		
OTU_276	Actinobacteria	Dietziaceae	Dietzia	Dietzia_maris
OTU_3082	Actinobacteria	Dietziaceae	Dietzia	Dietzia_maris
OTU_3517	Actinobacteria	Dietziaceae	Dietzia	Dietzia_natronolimnaea
OTU_3292	Proteobacteria	Desulfovibrionaceae	Mailhella	
OTU_310	Proteobacteria	Desulfovibrionaceae	Lawsonia	
OTU_984	Proteobacteria	Desulfovibrionaceae	Desulfovibrio	bacterium_'New_Zealand_D'
OTU_155	Proteobacteria	Desulfovibrionaceae	Desulfovibrio	Desulfovibrio_piger

		ae	
OTU_320	Proteobacteria	Desulfovibrionaceae	Desulfovibrio
		ae	
OTU_510	Proteobacteria	Desulfovibrionaceae	Desulfovibrio
		ae	
OTU_1035	Proteobacteria	Desulfovibrionaceae	Desulfovibrio
		ae	
OTU_2544	Proteobacteria	Desulfovibrionaceae	Desulfovibrio
		ae	
OTU_3232	Proteobacteria	Desulfovibrionaceae	Desulfovibrio
		ae	
OTU_892	Proteobacteria	Desulfovibrionaceae	Desulfovibrio
		ae	
OTU_1319	Proteobacteria	Desulfovibrionaceae	Desulfovibrio
		ae	
OTU_3843	Proteobacteria	Desulfovibrionaceae	Desulfovibrio
		ae	

OTU_1358	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_636	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_4220	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_3204	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1179	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1774	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_3324	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1782	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1546	Proteobacteria	Desulfovibrionace	Desulfovibrio

		ae	
OTU_442	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_447	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_4674	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1160	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_866	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1747	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1928	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_2646	Proteobacteria	Desulfovibrionace ae	Desulfovibrio

OTU_3661	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_619	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_4067	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_479	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1219	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_3342	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_286	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_4729	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_3438	Proteobacteria	Desulfovibrionace	Desulfovibrio

		ae	
OTU_704	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_722	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_415	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_2677	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_4859	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1710	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1434	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_205	Proteobacteria	Desulfovibrionace ae	Desulfovibrio

OTU_1729	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1087	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1394	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1392	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1860	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_2283	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_2062	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_2067	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1402	Proteobacteria	Desulfovibrionace	Desulfovibrio

		ae	
OTU_725	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1408	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_4334	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_709	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_1895	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_384	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_2128	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_3836	Proteobacteria	Desulfovibrionace ae	Desulfovibrio

OTU_2900	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_928	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_3607	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_360	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_369	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_2746	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_3619	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_2887	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_4539	Proteobacteria	Desulfovibrionace	Desulfovibrio

		ae	
OTU_2129	Proteobacteria	Desulfovibrionaceae	Desulfovibrio
		ae	
OTU_1529	Proteobacteria	Desulfovibrionaceae	Desulfovibrio
		ae	
OTU_2692	Proteobacteria	Desulfovibrionaceae	Desulfovibrio
		ae	
OTU_2691	Proteobacteria	Desulfovibrionaceae	Desulfovibrio
		ae	
OTU_1457	Proteobacteria	Desulfovibrionaceae	Desulfovibrio
		ae	
OTU_570	Proteobacteria	Desulfovibrionaceae	Desulfovibrio
		ae	
OTU_4033	Proteobacteria	Desulfovibrionaceae	Desulfovibrio
		ae	
OTU_1631	Proteobacteria	Desulfovibrionaceae	Desulfovibrio
		ae	

OTU_4499	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_542	Proteobacteria	Desulfovibrionace ae	Desulfovibrio
OTU_782	Proteobacteria	Desulfovibrionace ae	Bilophila
OTU_724	Proteobacteria	Desulfovibrionace ae	Bilophila
OTU_907	Proteobacteria	Desulfovibrionace ae	Bilophila
OTU_1493	Proteobacteria	Desulfovibrionace ae	
OTU_4302	Proteobacteria	Desulfovibrionace ae	
OTU_209	Proteobacteria	Desulfovibrionace ae	
OTU_284	Proteobacteria	Desulfovibrionace	

		ae
OTU_1303	Proteobacteria	Desulfovibrionace ae
OTU_1211	Proteobacteria	Desulfovibrionace ae
OTU_2055	Proteobacteria	Desulfovibrionace ae
OTU_4608	Proteobacteria	Desulfovibrionace ae
OTU_929	Proteobacteria	Desulfovibrionace ae
OTU_931	Proteobacteria	Desulfovibrionace ae
OTU_4148	Proteobacteria	Desulfovibrionace ae
OTU_1287	Proteobacteria	Desulfovibrionace ae

OTU_4836	Proteobacteria	Desulfovibrionaceae		
OTU_4847	Proteobacteria	Desulfobacteraceae		
OTU_4527	Proteobacteria	Desulfarculaceae		
OTU_4513	Proteobacteria	Desulfarculaceae		
OTU_1687	Actinobacteria	Dermatophilaceae	Mobilicoccus	Mobilicoccus_pelagius
OTU_3351	Actinobacteria	Dermatophilaceae		
OTU_1559	Actinobacteria	Dermatophilaceae		
OTU_1694	Actinobacteria	Dermacoccaceae	Flexivirga	
OTU_481	Actinobacteria	Dermacoccaceae	Calidifontibacter	
OTU_3414	Actinobacteria	Dermacoccaceae		
OTU_477	Actinobacteria	Dermabacteraceae	Brachybacterium	Brachybacterium_paraconglomeratum
OTU_4284	Actinobacteria	Dermabacteraceae	Brachybacterium	
OTU_3807	Actinobacteria	Demequinaceae	Demequina	
OTU_3262	Deinococcus-Thermus	Deinococcaceae	Deinococcus	Deinococcus_wulumuqiensis

OTU_1311	Firmicutes	Defluviitaleaceae		
OTU_1846	Firmicutes	Defluviitaleaceae		
OTU_3309	Deferribacteres	Deferribacteraceae	Mucispirillum	Mucispirillum_schaedleri
OTU_157	Deferribacteres	Deferribacteraceae	Mucispirillum	Mucispirillum_schaedleri
OTU_1115	Deferribacteres	Deferribacteraceae	Mucispirillum	Mucispirillum_schaedleri
OTU_1916	Deferribacteres	Deferribacteraceae	Mucispirillum	Mucispirillum_schaedleri
OTU_1178	Deferribacteres	Deferribacteraceae	Mucispirillum	
OTU_873	Deferribacteres	Deferribacteraceae	Mucispirillum	
OTU_3118	Deferribacteres	Deferribacteraceae	Mucispirillum	
OTU_1398	Deferribacteres	Deferribacteraceae	Mucispirillum	
OTU_4594	Deferribacteres	Deferribacteraceae	Mucispirillum	
OTU_3094	Bacteroidetes	Cytophagaceae	Rhodocytophaga	
OTU_4356	Bacteroidetes	Crocinitomicaceae	Fluviicola	
OTU_3787	Proteobacteria	Coxiellaceae	Coxiella	
OTU_3363	Proteobacteria	Coxiellaceae	Coxiella	
OTU_1918	Actinobacteria	Corynebacteriaceae	Lawsonella	

OTU_1532	Actinobacteria	Corynebacteriaceae	Corynebacterium	Corynebacterium_kutscheri
OTU_2448	Actinobacteria	Corynebacteriaceae	Corynebacterium	Corynebacterium_sp_canine_oral_taxon_423
OTU_1818	Actinobacteria	Corynebacteriaceae	Corynebacterium	
OTU_2170	Actinobacteria	Corynebacteriaceae	Corynebacterium	
OTU_44	Actinobacteria	Corynebacteriaceae		Corynebacterium_glutamicum
OTU_2475	Actinobacteria	Corynebacteriaceae		Corynebacterium_lipophiloflavum
OTU_193	Actinobacteria	Corynebacteriaceae		Corynebacterium_stationis
OTU_3497	Actinobacteria	Corynebacteriaceae		Corynebacterium_stationis
OTU_1467	Actinobacteria	Corynebacteriaceae		Corynebacterium_urealyticum

		e	
OTU_37	Actinobacteria	Corynebacteriacea	Corynebacterium_variabile
		e	
OTU_4072	Actinobacteria	Corynebacteriacea	
		e	
OTU_3138	Actinobacteria	Corynebacteriacea	
		e	
OTU_3593	Actinobacteria	Corynebacteriacea	
		e	
OTU_480	Actinobacteria	Corynebacteriacea	
		e	
OTU_138	Actinobacteria	Corynebacteriacea	
		e	
OTU_149	Actinobacteria	Corynebacteriacea	
		e	
OTU_2253	Actinobacteria	Corynebacteriacea	
		e	

OTU_1292	Actinobacteria	Corynebacteriaceae		
		e		
OTU_2928	Actinobacteria	Corynebacteriaceae		
		e		
OTU_2954	Actinobacteria	Corynebacteriaceae		
		e		
OTU_4031	Actinobacteria	Corynebacteriaceae		
		e		
OTU_3260	Actinobacteria	Corynebacteriaceae		
		e		
OTU_1216	Actinobacteria	Corynebacteriaceae		
		e		
OTU_2729	Actinobacteria	Corynebacteriaceae		
		e		
OTU_3914	Actinobacteria	Corynebacteriaceae		
		e		
OTU_796	Actinobacteria	Coriobacteriaceae	Collinsella	Collinsella_stercoris

OTU_1314	Actinobacteria	Coriobacteriaceae	Collinsella	Collinsella_tanakaei
OTU_1073	Actinobacteria	Coriobacteriaceae	Collinsella	
OTU_4514	Actinobacteria	Coriobacteriaceae	Collinsella	
OTU_2776	Actinobacteria	Coriobacteriaceae	Collinsella	
OTU_4583	Verrucomicrobi a	Chthoniobacterace ae	Candidatus	
OTU_2909	Verrucomicrobi a	Chthoniobacterace ae	Candidatus	
OTU_4814	Firmicutes	Christensenellacea e	Catabacter	Christensenella_timonensis
OTU_1423	Firmicutes	Christensenellacea e	Catabacter	
OTU_3349	Firmicutes	Christensenellacea e	Catabacter	
OTU_1652	Firmicutes	Christensenellacea e		bacterium_enrichment_culture_clone_DPF35
OTU_2110	Firmicutes	Christensenellacea		bacterium_YE57

		e	
OTU_916	Firmicutes	Christensenellacea	Clostridiales_bacterium_Marseille-P2846
		e	
OTU_2593	Firmicutes	Christensenellacea	Clostridium_sp_enrichment_culture_clone_VanC
		e	tr97
OTU_444	Firmicutes	Christensenellacea	iron-reducing_bacterium_enrichment_culture_cl
		e	one_HN70
OTU_2315	Firmicutes	Christensenellacea	
		e	
OTU_3624	Firmicutes	Christensenellacea	
		e	
OTU_2530	Firmicutes	Christensenellacea	
		e	
OTU_2226	Firmicutes	Christensenellacea	
		e	
OTU_2214	Firmicutes	Christensenellacea	
		e	

OTU_521	Firmicutes	Christensenellacea e
OTU_4533	Firmicutes	Christensenellacea e
OTU_3332	Firmicutes	Christensenellacea e
OTU_2791	Firmicutes	Christensenellacea e
OTU_634	Firmicutes	Christensenellacea e
OTU_1173	Firmicutes	Christensenellacea e
OTU_2526	Firmicutes	Christensenellacea e
OTU_847	Firmicutes	Christensenellacea e
OTU_1781	Firmicutes	Christensenellacea

		e
OTU_611	Firmicutes	Christensenellacea
		e
OTU_4114	Firmicutes	Christensenellacea
		e
OTU_877	Firmicutes	Christensenellacea
		e
OTU_1566	Firmicutes	Christensenellacea
		e
OTU_1693	Firmicutes	Christensenellacea
		e
OTU_4615	Firmicutes	Christensenellacea
		e
OTU_3358	Firmicutes	Christensenellacea
		e
OTU_2339	Firmicutes	Christensenellacea
		e

OTU_3111	Firmicutes	Christensenellacea e
OTU_4869	Firmicutes	Christensenellacea e
OTU_4599	Firmicutes	Christensenellacea e
OTU_700	Firmicutes	Christensenellacea e
OTU_1233	Firmicutes	Christensenellacea e
OTU_482	Firmicutes	Christensenellacea e
OTU_804	Firmicutes	Christensenellacea e
OTU_3436	Firmicutes	Christensenellacea e
OTU_1974	Firmicutes	Christensenellacea

		e
OTU_1240	Firmicutes	Christensenellacea
		e
OTU_3817	Firmicutes	Christensenellacea
		e
OTU_1869	Firmicutes	Christensenellacea
		e
OTU_3009	Firmicutes	Christensenellacea
		e
OTU_572	Firmicutes	Christensenellacea
		e
OTU_1253	Firmicutes	Christensenellacea
		e
OTU_203	Firmicutes	Christensenellacea
		e
OTU_1571	Firmicutes	Christensenellacea
		e

OTU_3511	Firmicutes	Christensenellacea e
OTU_363	Firmicutes	Christensenellacea e
OTU_4177	Firmicutes	Christensenellacea e
OTU_1335	Firmicutes	Christensenellacea e
OTU_2258	Firmicutes	Christensenellacea e
OTU_646	Firmicutes	Christensenellacea e
OTU_4020	Firmicutes	Christensenellacea e
OTU_2249	Firmicutes	Christensenellacea e
OTU_4198	Firmicutes	Christensenellacea

		e		
OTU_3620	Firmicutes	Christensenellacea		
		e		
OTU_2347	Firmicutes	Christensenellacea		
		e		
OTU_1468	Firmicutes	Christensenellacea		
		e		
OTU_641	Firmicutes	Christensenellacea		
		e		
OTU_134	Chlamydiae	Chlamydiaceae	Chlamydia	Chlamydia_muridarum
OTU_2014	Chlamydiae	Chlamydiaceae	Chlamydia	Chlamydia_muridarum
OTU_1517	Bacteroidetes	Chitinophagaceae	Terrimonas	
OTU_1872	Bacteroidetes	Chitinophagaceae	Terrimonas	
OTU_4445	Bacteroidetes	Chitinophagaceae	Taibaiella	Taibaiella_sp
OTU_4444	Bacteroidetes	Chitinophagaceae	Taibaiella	
OTU_2926	Bacteroidetes	Chitinophagaceae	Segetibacter	
OTU_2726	Bacteroidetes	Chitinophagaceae	Segetibacter	

OTU_3003	Bacteroidetes	Chitinophagaceae	Sediminibacterium	
OTU_2165	Bacteroidetes	Chitinophagaceae	Parafilimonas	
OTU_2521	Bacteroidetes	Chitinophagaceae	Niastella	
OTU_4816	Bacteroidetes	Chitinophagaceae	Niastella	
OTU_4892	Bacteroidetes	Chitinophagaceae	Niastella	
OTU_3286	Bacteroidetes	Chitinophagaceae	Niastella	
OTU_2239	Bacteroidetes	Chitinophagaceae	Niastella	
OTU_1952	Bacteroidetes	Chitinophagaceae	Flavitalea	
OTU_2026	Bacteroidetes	Chitinophagaceae	Flavisolibacter	
OTU_2975	Bacteroidetes	Chitinophagaceae	Flavisolibacter	
OTU_1908	Bacteroidetes	Chitinophagaceae	Flavisolibacter	
OTU_2712	Bacteroidetes	Chitinophagaceae	Flavisolibacter	
OTU_3410	Bacteroidetes	Chitinophagaceae	Flavisolibacter	
OTU_3033	Bacteroidetes	Chitinophagaceae	Flavisolibacter	
OTU_1958	Bacteroidetes	Chitinophagaceae	Flavihumibacter	
OTU_4317	Bacteroidetes	Chitinophagaceae	Flaviaesturariibacter	
OTU_4175	Bacteroidetes	Chitinophagaceae	Filobacterium	cilia-associated_respiratory_bacterium_95-15405

OTU_3893	Bacteroidetes	Chitinophagaceae	Ferruginibacter
OTU_2191	Bacteroidetes	Chitinophagaceae	Ferruginibacter
OTU_2194	Bacteroidetes	Chitinophagaceae	Chitinophaga
OTU_3001	Bacteroidetes	Chitinophagaceae	Chitinophaga
OTU_3049	Bacteroidetes	Chitinophagaceae	
OTU_2054	Bacteroidetes	Chitinophagaceae	
OTU_1794	Bacteroidetes	Chitinophagaceae	
OTU_2305	Bacteroidetes	Chitinophagaceae	
OTU_3149	Bacteroidetes	Chitinophagaceae	
OTU_3328	Bacteroidetes	Chitinophagaceae	
OTU_2085	Bacteroidetes	Chitinophagaceae	
OTU_2535	Bacteroidetes	Chitinophagaceae	
OTU_4468	Bacteroidetes	Chitinophagaceae	
OTU_4449	Bacteroidetes	Chitinophagaceae	
OTU_2120	Bacteroidetes	Chitinophagaceae	
OTU_2820	Bacteroidetes	Chitinophagaceae	
OTU_2460	Bacteroidetes	Chitinophagaceae	

OTU_4597	Proteobacteria	Cellvibrionaceae		
OTU_3798	Actinobacteria	Cellulomonadaceae	Pseudactinotalea	
OTU_3197	Actinobacteria	Cellulomonadaceae	Cellulomonas	Cellulomonas_gelida
OTU_2827	Proteobacteria	Caulobacteraceae	Phenylobacterium	
OTU_1577	Proteobacteria	Caulobacteraceae	Brevundimonas	Brevundimonas_bullata
OTU_4150	Proteobacteria	Caulobacteraceae	Brevundimonas	Brevundimonas_subvibrioides
OTU_2624	Proteobacteria	Caulobacteraceae		
OTU_3601	Proteobacteria	Caulobacteraceae		
OTU_2273	Firmicutes	Carnobacteriaceae	Pisciglobus	
OTU_2582	Firmicutes	Carnobacteriaceae	Lacticigenium	
OTU_879	Firmicutes	Carnobacteriaceae	Jeotgalibaca	
OTU_2421	Firmicutes	Carnobacteriaceae	Jeotgalibaca	
OTU_1458	Firmicutes	Carnobacteriaceae	Granulicatella	
OTU_2175	Firmicutes	Carnobacteriaceae	Carnobacterium	
OTU_1259	Firmicutes	Carnobacteriaceae	Atopostipes	

OTU_3355	Firmicutes	Carnobacteriaceae		
OTU_2717	Firmicutes	Carnobacteriaceae		
OTU_4118		Campylobacteraceae	Campylobacter	Campylobacter_conciscus
OTU_4234		Campylobacteraceae	Campylobacter	Campylobacter_showae
OTU_489		Campylobacteraceae	Campylobacter	
OTU_2641		Campylobacteraceae	Campylobacter	
OTU_6		Campylobacteraceae	Campylobacter	
OTU_4577		Campylobacteraceae	Campylobacter	
OTU_2638	Chloroflexi	Caldilineaceae		
OTU_3576	Chloroflexi	Caldilineaceae		
OTU_2607	Proteobacteria	Burkholderiaceae	Undibacterium	

OTU_1638	Proteobacteria	Burkholderiaceae	Sutterella	Sutterella_parvirubra
OTU_1241	Proteobacteria	Burkholderiaceae	Sutterella	
OTU_2660	Proteobacteria	Burkholderiaceae	Sutterella	
OTU_1064	Proteobacteria	Burkholderiaceae	Ralstonia	Ralstonia_pickettii
OTU_2675	Proteobacteria	Burkholderiaceae	Polynucleobacter	Polynucleobacter_asymbioticus
OTU_3898	Proteobacteria	Burkholderiaceae	Polaromonas	
OTU_1491	Proteobacteria	Burkholderiaceae	Pelistega	
OTU_1193	Proteobacteria	Burkholderiaceae	Parasutterella	Burkholderiales_bacterium_YL45
OTU_2983	Proteobacteria	Burkholderiaceae	Parasutterella	Parasutterella_secunda
OTU_57	Proteobacteria	Burkholderiaceae	Parasutterella	
OTU_3704	Proteobacteria	Burkholderiaceae	Parasutterella	
OTU_1276	Proteobacteria	Burkholderiaceae	Parasutterella	
OTU_2976	Proteobacteria	Burkholderiaceae	Paenalcaligenes	Alcaligenes_faecalis
OTU_3450	Proteobacteria	Burkholderiaceae	Paenalcaligenes	
OTU_2865	Proteobacteria	Burkholderiaceae	Oxalobacter	
OTU_1104	Proteobacteria	Burkholderiaceae	Oxalobacter	
OTU_1838	Proteobacteria	Burkholderiaceae	Oxalobacter	

OTU_1757	Proteobacteria	Burkholderiaceae	Oligella	
OTU_1114	Proteobacteria	Burkholderiaceae	Noviherbaspirillum	
OTU_4314	Proteobacteria	Burkholderiaceae	Methylibium	
OTU_590	Proteobacteria	Burkholderiaceae	Limnohabitans	
OTU_2503	Proteobacteria	Burkholderiaceae	Limnobacter	
OTU_2953	Proteobacteria	Burkholderiaceae	Lautropia	
OTU_3313	Proteobacteria	Burkholderiaceae	Janthinobacterium	Janthinobacterium_lividum
OTU_2794	Proteobacteria	Burkholderiaceae	Hydrogenophaga	
OTU_1727	Proteobacteria	Burkholderiaceae	Herbaspirillum	
OTU_2749	Proteobacteria	Burkholderiaceae	Delftia	
OTU_3944	Proteobacteria	Burkholderiaceae	Cupriavidus	Cupriavidus_pauculus
OTU_540	Proteobacteria	Burkholderiaceae	Comamonas	Comamonas_testosteroni
OTU_2578	Proteobacteria	Burkholderiaceae	Caenimonas	
OTU_1361	Proteobacteria	Burkholderiaceae	Bordetella	Bordetella_hinzii
OTU_3212	Proteobacteria	Burkholderiaceae	Aquabacterium	
OTU_2839	Proteobacteria	Burkholderiaceae	Alcaligenes	
OTU_4238	Proteobacteria	Burkholderiaceae	Advenella	

OTU_2672	Proteobacteria	Burkholderiaceae	Acidovorax	Acidovorax_wautersii
OTU_4269	Proteobacteria	Burkholderiaceae		Burkholderiales_bacterium_X4
OTU_938	Proteobacteria	Burkholderiaceae		Paraburkholderia_fungorum
OTU_4042	Proteobacteria	Burkholderiaceae		
OTU_3559	Proteobacteria	Burkholderiaceae		
OTU_1149	Proteobacteria	Burkholderiaceae		
OTU_1790	Proteobacteria	Burkholderiaceae		
OTU_3121	Proteobacteria	Burkholderiaceae		
OTU_1965	Proteobacteria	Burkholderiaceae		
OTU_4587	Proteobacteria	Burkholderiaceae		
OTU_2227	Proteobacteria	Burkholderiaceae		
OTU_133	Actinobacteria	Brevibacteriaceae	Brevibacterium	Brevibacterium_epidermidis
OTU_695	Actinobacteria	Brevibacteriaceae	Brevibacterium	Brevibacterium_senegalense
OTU_2693	Actinobacteria	Brevibacteriaceae	Brevibacterium	
OTU_3018	Actinobacteria	Bogoriellaceae	Georgenia	
OTU_742	Actinobacteria	Bifidobacteriaceae	Neoscardovia	Neoscardovia_arbecensis
OTU_4454	Actinobacteria	Bifidobacteriaceae	Gardnerella	

OTU_4228	Actinobacteria	Bifidobacteriaceae	Bifidobacterium	Bifidobacterium_breve
OTU_352	Actinobacteria	Bifidobacteriaceae	Bifidobacterium	Bifidobacterium_pseudocatenulatum
OTU_235	Actinobacteria	Bifidobacteriaceae	Bifidobacterium	
OTU_4025	Actinobacteria	Bifidobacteriaceae	Bifidobacterium	
OTU_45	Actinobacteria	Bifidobacteriaceae	Bifidobacterium	
OTU_3600	Actinobacteria	Bifidobacteriaceae	Bifidobacterium	
OTU_3584	Actinobacteria	Bifidobacteriaceae	Bifidobacterium	
OTU_1512	Actinobacteria	Bifidobacteriaceae	Bifidobacterium	
OTU_4719	Actinobacteria	Bifidobacteriaceae	Bifidobacterium	
OTU_691	Actinobacteria	Bifidobacteriaceae	Aeriscardovia	Aeriscardovia_aeriphila
OTU_3492	Actinobacteria	Bifidobacteriaceae	Aeriscardovia	
OTU_2472	Actinobacteria	Bifidobacteriaceae	Aeriscardovia	
OTU_3520	Proteobacteria	Beijerinckiaceae	Psychroglaciacola	
OTU_1357	Proteobacteria	Beijerinckiaceae	Microvirga	
OTU_2505	Proteobacteria	Beijerinckiaceae	Microvirga	
OTU_1433	Proteobacteria	Beijerinckiaceae	Methylobacterium	Methylobacterium_populi
OTU_1567	Proteobacteria	Beijerinckiaceae	Methylobacterium	

OTU_2441	Proteobacteria	Beijerinckiaceae	Methylobacterium	
OTU_3795	Proteobacteria	Beijerinckiaceae	Chelatococcus	
OTU_1075	Proteobacteria	Beijerinckiaceae	Camelimonas	
OTU_519	Proteobacteria	Beijerinckiaceae	Bosea	
OTU_2541	Proteobacteria	Beijerinckiaceae		
OTU_3781	Proteobacteria	Beijerinckiaceae		
OTU_3844	Proteobacteria	Beijerinckiaceae		
OTU_2589	Proteobacteria	Beijerinckiaceae		
OTU_3063	Proteobacteria	Bdellovibrionaceae	Bdellovibrio	
OTU_4787	Proteobacteria	Bdellovibrionaceae	Bdellovibrio	
OTU_2773	Proteobacteria	Bdellovibrionaceae	Bdellovibrio	
OTU_2890	Proteobacteria	Bdellovibrionaceae		
OTU_4235	Proteobacteria	Bdellovibrionaceae		
OTU_4657	Bacteroidetes	Barnesiellaceae	Coprobacter	Coprobacter_fastidiosus
OTU_2930	Bacteroidetes	Barnesiellaceae	Coprobacter	Coprobacter_secundus
OTU_131	Bacteroidetes	Barnesiellaceae	Barnesiella	
OTU_1699	Bacteroidetes	Barnesiellaceae	Barnesiella	

OTU_4289	Bacteroidetes	Barnesiellaceae		
OTU_3340	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_acidifaciens
OTU_1596	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_barnesiae
OTU_4300	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_caccae
OTU_13	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_caccae
OTU_4097	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_caccae
OTU_2577	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_caccae
OTU_832	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_caecigallinarum
OTU_137	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_clarus
OTU_147	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_coprocola
OTU_113	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_coprophilus
OTU_1417	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_eggerthii
OTU_21	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_fragilis
OTU_4698	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_graminisolvens
OTU_568	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_massiliensis
OTU_82	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_nordii
OTU_301	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_plebeius

OTU_3046	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_pyogenes
OTU_15	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_rodentium
OTU_54	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_sartorii
OTU_4697	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_sp_Marseille-P3108
OTU_992	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_sp_Marseille-P3166
OTU_460	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_stercoris
OTU_930	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_thetaiotaomicron
OTU_67	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_vulgatus
OTU_2778	Bacteroidetes	Bacteroidaceae	Bacteroides	Bacteroides_vulgatus
OTU_4207	Bacteroidetes	Bacteroidaceae	Bacteroides	
OTU_3888	Bacteroidetes	Bacteroidaceae	Bacteroides	
OTU_1039	Bacteroidetes	Bacteroidaceae	Bacteroides	
OTU_3950	Bacteroidetes	Bacteroidaceae	Bacteroides	
OTU_4304	Bacteroidetes	Bacteroidaceae	Bacteroides	
OTU_3339	Bacteroidetes	Bacteroidaceae	Bacteroides	
OTU_1796	Bacteroidetes	Bacteroidaceae	Bacteroides	
OTU_985	Bacteroidetes	Bacteroidaceae	Bacteroides	

OTU_779	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_2313	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_2998	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_277	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_271	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_1755	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_2324	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_268	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_3870	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_492	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_3481	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_4015	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_909	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_655	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_4156	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_4710	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_4714	Bacteroidetes	Bacteroidaceae	Bacteroides

OTU_2276	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_3385	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_736	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_4542	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_1065	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_4551	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_4773	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_4064	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_4061	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_1473	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_116	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_3616	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_1615	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_977	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_946	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_4489	Bacteroidetes	Bacteroidaceae	Bacteroides
OTU_178	Bacteroidetes	Bacteroidaceae	Bacteroides

OTU_3412	Bacteroidetes	Bacteroidaceae	Bacteroides	
OTU_740	Bacteroidetes	Bacteroidaceae	Bacteroides	
OTU_624	Bacteroidetes	Bacteroidaceae	Bacteroides	
OTU_1932	Bacteroidetes	Bacteroidaceae	Bacteroides	
OTU_4681	Bacteroidetes	Bacteroidaceae	Bacteroides	
OTU_3234	Proteobacteria	Bacteriovoracaceae	Peredibacter	
OTU_4592	Proteobacteria	Bacteriovoracaceae	Peredibacter	
OTU_4128	Firmicutes	Bacillaceae	Pseudogracilibacillus	
OTU_1554	Firmicutes	Bacillaceae	Pseudogracilibacillus	
OTU_2049	Firmicutes	Bacillaceae	Cerasibacillus	
OTU_426	Firmicutes	Bacillaceae	Bacillus	Bacillus_anthraxis
OTU_4548	Firmicutes	Bacillaceae	Bacillus	Bacillus_gibsonii
OTU_2218	Firmicutes	Bacillaceae	Bacillus	
OTU_2409	Firmicutes	Bacillaceae	Bacillus	
OTU_1578	Firmicutes	Bacillaceae	Bacillus	
OTU_1412	Firmicutes	Bacillaceae	Bacillus	
OTU_3252	Firmicutes	Bacillaceae	Bacillus	

OTU_4505	Firmicutes	Bacillaceae	Bacillus	
OTU_781	Firmicutes	Bacillaceae	Anoxybacillus	
OTU_3823	Firmicutes	Bacillaceae		
OTU_2033	Actinobacteria	Atopobiaceae	Atopobium	Atopobium_minutum
OTU_3361	Actinobacteria	Atopobiaceae	Atopobium	Atopobium_parvulum
OTU_2557	Actinobacteria	Atopobiaceae		
OTU_39	Actinobacteria	Atopobiaceae		
OTU_4243	Actinobacteria	Atopobiaceae		
OTU_990	Actinobacteria	Atopobiaceae		
OTU_3066	Actinobacteria	Atopobiaceae		
OTU_925	Actinobacteria	Atopobiaceae		
OTU_3802	Actinobacteria	Atopobiaceae		
OTU_3716	Actinobacteria	Atopobiaceae		
OTU_2917	Chloroflexi	Ardenticatenaceae		
OTU_2480	Proteobacteria	Archangiaceae	Archangium	Archangium_gephyra
OTU_885	Tenericutes	Anaeroplasmataceae	Anaeroplasma	

OTU_470	Tenericutes	Anaeroplasmatace ae	Anaeroplasma
OTU_263	Tenericutes	Anaeroplasmatace ae	Anaeroplasma
OTU_1913	Tenericutes	Anaeroplasmatace ae	Anaeroplasma
OTU_1250	Tenericutes	Anaeroplasmatace ae	Anaeroplasma
OTU_3387	Tenericutes	Anaeroplasmatace ae	Anaeroplasma
OTU_404	Tenericutes	Anaeroplasmatace ae	Anaeroplasma
OTU_2399	Tenericutes	Anaeroplasmatace ae	Anaeroplasma
OTU_585	Tenericutes	Anaeroplasmatace ae	Anaeroplasma
OTU_366	Tenericutes	Anaeroplasmatace	Anaeroplasma

		ae	
OTU_963	Tenericutes	Anaeroplasmataceae	Anaeroplasma
		ae	
OTU_3989	Tenericutes	Anaeroplasmataceae	Anaeroplasma
		ae	
OTU_2626	Chloroflexi	Anaerolineaceae	
OTU_18	Bacteroidetes	Amoebophilaceae	
OTU_4410	Verrucomicrobia	Akkermansiaceae	Akkermansia
	a		
OTU_4632	Verrucomicrobia	Akkermansiaceae	Akkermansia
	a		
OTU_933	Verrucomicrobia	Akkermansiaceae	Akkermansia
	a		
OTU_2950	Verrucomicrobia	Akkermansiaceae	Akkermansia
	a		
OTU_130	Verrucomicrobia	Akkermansiaceae	Akkermansia
	a		

OTU_733	Verrucomicrobi a	Akkermansiaceae	Akkermansia	
OTU_314	Verrucomicrobi a	Akkermansiaceae	Akkermansia	
OTU_240	Firmicutes	Aerococcaceae	Globicatella	
OTU_1761	Firmicutes	Aerococcaceae	Globicatella	
OTU_3751	Firmicutes	Aerococcaceae	Facklamia	
OTU_751	Firmicutes	Aerococcaceae	Facklamia	
OTU_973	Firmicutes	Aerococcaceae	Facklamia	
OTU_617	Firmicutes	Aerococcaceae	Aerosphaera	
OTU_27	Firmicutes	Aerococcaceae	Aerococcus	Aerococcus_viridans
OTU_4629	Firmicutes	Aerococcaceae	Aerococcus	
OTU_3640	Firmicutes	Aerococcaceae	Abiotrophia	
OTU_1136	Firmicutes	Aerococcaceae		
OTU_1824	Actinobacteria	Actinomycetaceae	Trueperella	
OTU_3961	Actinobacteria	Actinomycetaceae	Mobiluncus	Mobiluncus_curtisii
OTU_881	Actinobacteria	Actinomycetaceae	Flaviflexus	

OTU_4707	Actinobacteria	Actinomycetaceae	Flaviflexus	
OTU_2519	Actinobacteria	Actinomycetaceae	Arcanobacterium	
OTU_3776	Actinobacteria	Actinomycetaceae	Actinomyces	Actinomyces_nasicola
OTU_4084	Actinobacteria	Actinomycetaceae	Actinomyces	Actinomyces_odontolyticus
OTU_2127	Actinobacteria	Actinomycetaceae	Actinomyces	Actinomyces_sp_MD1
OTU_4223	Actinobacteria	Actinomycetaceae	Actinomyces	bacterium_NLAE-zl-C112
OTU_4874	Actinobacteria	Actinomycetaceae	Actinomyces	bacterium_NLAE-zl-C112
OTU_2476	Actinobacteria	Actinomycetaceae	Actinomyces	bacterium_NLAE-zl-C112
OTU_1176	Actinobacteria	Actinomycetaceae	Actinomyces	
OTU_472	Actinobacteria	Actinomycetaceae	Actinomyces	
OTU_1568	Actinobacteria	Actinomycetaceae	Actinomyces	
OTU_1641	Actinobacteria	Actinomycetaceae	Actinomyces	
OTU_3103	Actinobacteria	Actinomycetaceae	Actinomyces	
OTU_2071	Actinobacteria	Actinomycetaceae	Actinomyces	
OTU_2270	Actinobacteria	Actinomycetaceae	Actinomyces	
OTU_3611	Actinobacteria	Actinomycetaceae	Actinomyces	
OTU_764	Actinobacteria	Actinomycetaceae	Actinomyces	

OTU_3994	Actinobacteria	Actinomycetaceae	Actinomyces	
OTU_2674	Actinobacteria	Actinomycetaceae	Actinomyces	
OTU_2078	Actinobacteria	Actinomycetaceae	Actinomyces	
OTU_2236	Actinobacteria	Actinomycetaceae		
OTU_1907	Actinobacteria	Actinomycetaceae		
OTU_4460	Actinobacteria	Acidothermaceae	Acidothermus	
OTU_4845	Proteobacteria	Acidiferrobacteraceae	Sulfurifustis	
OTU_3971	Proteobacteria	Acidiferrobacteraceae	Sulfurifustis	
OTU_3304	Firmicutes	Acidaminococcaceae	Succiniclasticum	
OTU_166	Firmicutes	Acidaminococcaceae	Phascolarctobacterium	Phascolarctobacterium_faecium
OTU_4134	Firmicutes	Acidaminococcaceae	Phascolarctobacterium	
OTU_399	Firmicutes	Acidaminococcaceae	Phascolarctobacterium	

		ae		
OTU_4826	Firmicutes	Acidaminococcaceae	Phascolarctobacterium	
		ae		
OTU_1905	Firmicutes	Acidaminococcaceae	Phascolarctobacterium	
		ae		
OTU_3307	Firmicutes	Acidaminococcaceae	Phascolarctobacterium	
		ae		
OTU_2156	Proteobacteria	Acetobacteraceae	Roseomonas	Roseomonas_frigidaquae
OTU_945	Proteobacteria	Acetobacteraceae	Roseomonas	Roseomonas_genomospecies_5
OTU_1236	Proteobacteria	Acetobacteraceae	Roseomonas	
OTU_2353	Proteobacteria	Acetobacteraceae	Gluconobacter	Gluconobacter_frateurii
OTU_3241	Proteobacteria	Acetobacteraceae	Acetobacter	Acetobacter_tropicalis
OTU_4634	Proteobacteria	Acetobacteraceae		
OTU_4849	Proteobacteria	Acetobacteraceae		
OTU_3404	Proteobacteria	Acetobacteraceae		
OTU_1812	Proteobacteria		Wohlfahrtiimonas	
OTU_3323	Firmicutes		Tissierella	

OTU_4056	Firmicutes	Tissierella	
OTU_2083	Firmicutes	Tissierella	
OTU_4870	Firmicutes	Tissierella	
OTU_2271	Firmicutes	Tissierella	
OTU_900	Actinobacteria	Timonella	
OTU_965	Actinobacteria	Timonella	
OTU_3786	Acidobacteria	Terracidiphilus	
OTU_3091	Firmicutes	Tepidanaerobacter	
OTU_3688		Sulfurovum	epsilon_proteobacterium_ectosymbiont_of_Rimicaris_exoculata
OTU_3360		Sulfurovum	
OTU_3998		Sulfurospirillum	
OTU_3671	Proteobacteria	Steroidobacter	
OTU_4720	Proteobacteria	Steroidobacter	
OTU_4473	Proteobacteria	Steroidobacter	
OTU_2628	Acidobacteria	Stenotrophobacter	
OTU_3126	Proteobacteria	Skermanella	

OTU_3169	Firmicutes	Sarcina	
OTU_2351	Actinobacteria	Rubrobacter	Rubrobacter_sp_C05_TP_Z26_S14
OTU_2642	Actinobacteria	Rubrobacter	Rubrobacter_xylanophilus
OTU_2367	Actinobacteria	Rubrobacter	
OTU_3303	Actinobacteria	Rubrobacter	
OTU_3172	Actinobacteria	Rubrobacter	
OTU_1480	Proteobacteria	Rickettsiella	
OTU_2148	Proteobacteria	Rhodomicrobium	
OTU_3660	Proteobacteria	Reyranella	
OTU_2387	Proteobacteria	Reyranella	
OTU_4288	Actinobacteria	Raoultibacter	
OTU_3883	Bacteroidetes	Proteiniphilum	
OTU_4800	Bacteroidetes	Proteiniphilum	
OTU_846	Firmicutes	Proteiniclasticum	
OTU_3026	Firmicutes	Proteiniclasticum	
OTU_826	Proteobacteria	Phreatobacter	
OTU_3602	Bacteroidetes	Petrimonas	

OTU_70	Firmicutes	Peptoniphilus	Peptoniphilus_methioninivorax
OTU_4102	Firmicutes	Peptoniphilus	Peptoniphilus_stercorisuis
OTU_3322	Firmicutes	Peptoniphilus	
OTU_1569	Firmicutes	Peptoniphilus	
OTU_1858	Firmicutes	Peptoniphilus	
OTU_1733	Proteobacteria	Pelagibacterium	
OTU_236	Firmicutes	Parvimonas	
OTU_1826	Firmicutes	Parvimonas	
OTU_3565	Bacteroidetes	Ornithobacterium	
OTU_2678	Proteobacteria	Nordella	
OTU_1703	Proteobacteria	Nordella	
OTU_4466	Firmicutes	Mogibacterium	Mobilibacterium_massiliense
OTU_1749	Firmicutes	Mogibacterium	
OTU_4582	Firmicutes	Mogibacterium	
OTU_3991	Firmicutes	Mogibacterium	
OTU_3769	Proteobacteria	Marinobacter	Marinobacter_algicola
OTU_1985	Proteobacteria	Marinobacter	

OTU_3174	Proteobacteria	Marinobacter	
OTU_3960	Acidobacteria	Luteitalea	
OTU_3157	Proteobacteria	Labrys	Labrys_miyagiensis
OTU_4313	Proteobacteria	Labrenzia	
OTU_2378	Proteobacteria	Kaistia	
OTU_4165	Proteobacteria	Inquilinus	Inquilinus_limosus
OTU_1329	Actinobacteria	Ilumatobacter	
OTU_988	Actinobacteria	Ilumatobacter	
OTU_1254	Proteobacteria	Ignatzschineria	swine_effluent_bacterium_CHNDP41
OTU_1215	Proteobacteria	Ignatzschineria	
OTU_2415	Firmicutes	Helcococcus	
OTU_3878	Firmicutes	Helcococcus	
OTU_4864	Firmicutes	Helcococcus	
OTU_3275	Firmicutes	Hathewayia	Hathewayia_proteolytica
OTU_950	Firmicutes	Hathewayia	
OTU_3827	Firmicutes	Guggenheimella	
OTU_2382	Firmicutes	Guggenheimella	

OTU_2463	Firmicutes	Guggenheimella	
OTU_1272	Firmicutes	Guggenheimella	
OTU_1052	Firmicutes	Guggenheimella	
OTU_68	Firmicutes	Gemella	
OTU_1299	Firmicutes	Gemella	
OTU_1222	Firmicutes	Gallicola	Peptostreptococcaceae_bacterium_SK031
OTU_2804	Firmicutes	Gallicola	
OTU_4018	Firmicutes	Fonticella	
OTU_4854	Firmicutes	Fonticella	
OTU_3253	Firmicutes	Finegoldia	
OTU_3419	Firmicutes	Ezakiella	Ezakiella_massiliensis
OTU_2933	Bacteroidetes	Empedobacter	Empedobacter_brevis
OTU_1150	Bacteroidetes	Empedobacter	
OTU_4029	Bacteroidetes	Dysgonomonas	
OTU_2138	Bacteroidetes	Dysgonomonas	
OTU_2442	Bacteroidetes	Dysgonomonas	
OTU_2719	Bacteroidetes	Dysgonomonas	

OTU_1975	Proteobacteria	Dongia	
OTU_675	Proteobacteria	Devosia	Devosia_riboflavina
OTU_1716	Proteobacteria	Devosia	
OTU_4282	Proteobacteria	Defluviicoccus	
OTU_2117	Bacteroidetes	Cloacibacterium	
OTU_3154	Bacteroidetes	Chryseobacterium	
OTU_2079	Bacteroidetes	Chryseobacterium	
OTU_4403	Verrucomicrobi a	Candidatus	
OTU_394	Firmicutes	Candidatus	
OTU_4782	Acidobacteria	Candidatus	
OTU_2800	Acidobacteria	Candidatus	
OTU_3469	Acidobacteria	Candidatus	
OTU_3541	Acidobacteria	Candidatus	
OTU_4392	Acidobacteria	Candidatus	
OTU_189		Candidatus	
OTU_2605		Candidatus	

OTU_4090		Candidatus	
OTU_4627		Candidatus	
OTU_4369		Candidatus	
OTU_2022		Candidatus	
OTU_2612		Candidatus	
OTU_3563		Candidatus	
OTU_4644		Candidatus	
OTU_3892	Acidobacteria	Bryobacter	
OTU_2525	Acidobacteria	Bryobacter	
OTU_3117	Acidobacteria	Bryobacter	
OTU_4265	Acidobacteria	Bryobacter	
OTU_3105	Acidobacteria	Bryobacter	
OTU_2384	Acidobacteria	Bryobacter	
OTU_4488	Acidobacteria	Bryobacter	
OTU_3101	Acidobacteria	Blastocatella	
OTU_2286	Bacteroidetes	Bergeyella	Bergeyella_porcorum
OTU_2837	Bacteroidetes	Bergeyella	Bergeyella_zoohelcum

OTU_2645	Bacteroidetes	Bergeyella	
OTU_4386	Proteobacteria	Bauldia	
OTU_4435	Acidobacteria	Aridibacter	
OTU_4487		Arcobacter	Arcobacter_cryaerophilus
OTU_4492		Arcobacter	Arcobacter_marinus
OTU_3058		Arcobacter	
OTU_4298	Proteobacteria	Aquicella	
OTU_2440	Proteobacteria	Aquicella	
OTU_3641	Proteobacteria	Aquicella	
OTU_2742	Proteobacteria	Aquicella	
OTU_4196	Proteobacteria	Aquicella	
OTU_4224	Proteobacteria	Aquicella	
OTU_3368	Proteobacteria	Aquicella	
OTU_2705	Proteobacteria	Aquicella	
OTU_719	Firmicutes	Anaerovorax	
OTU_2986	Firmicutes	Anaerovorax	
OTU_1431	Firmicutes	Anaerovorax	

OTU_1702	Firmicutes	Anaerovorax	
OTU_3730	Firmicutes	Anaerovorax	
OTU_2884	Firmicutes	Anaerovorax	
OTU_4792	Firmicutes	Anaerovorax	
OTU_1770	Firmicutes	Anaerosolibacter	
OTU_1370	Firmicutes	Anaerosolibacter	Anaerosolibacter_bizertensis
OTU_3755	Firmicutes	Anaerococcus	Anaerococcus_provenciensis
OTU_2602	Firmicutes	Anaerococcus	Anaerococcus_vaginalis
OTU_3223	Firmicutes	Anaerococcus	
OTU_3136	Firmicutes	Anaerococcus	
OTU_2345	Firmicutes	Alkaliphilus	
OTU_2570	Firmicutes	Alkaliphilus	
OTU_3098	Proteobacteria	Acuticoccus	
OTU_3765	Proteobacteria	Acidibacter	
OTU_4257	Proteobacteria	Acidibacter	
OTU_3825	Proteobacteria	Acidibacter	
OTU_2074	Firmicutes		[Eubacterium]_brachy

OTU_3788	Acidobacteria	Acidobacteria_bacterium_CB_286306
OTU_4326	Acidobacteria	Acidobacteria_bacterium_CB_286306
OTU_3471	Acidobacteria	Acidobacteria_bacterium_CB_286306
OTU_3612	Acidobacteria	Acidobacteria_bacterium_LP6
OTU_2529	Acidobacteria	Acidobacteria_bacterium_RBG_16_70_10
OTU_2735	Proteobacteria	alpha_proteobacterium_1153-i2a
OTU_2149	Proteobacteria	Alphaproteobacteria_bacterium_canine_oral_tax on_081
OTU_1670	Firmicutes	bacterium_AD3011
OTU_2947	Firmicutes	bacterium_AD3011
OTU_4535	Verrucomicrobi a	bacterium_Ellin516
OTU_4254	Proteobacteria	bacterium_endosymbiont_of_Onthophagus_Taur us
OTU_2447	Proteobacteria	bacterium_enrichment_culture_clone_Anammox _13
OTU_4519	Fibrobacteres	bacterium_enrichment_culture_clone_BBMC-4

OTU_3805	Proteobacteria	bacterium_enrichment_culture_clone_DSR_6
OTU_2325	Chloroflexi	bacterium_YC-LK-LKJ27
OTU_3735	Chloroflexi	bacterium_YC-LK-LKJ27
OTU_3841	Actinobacteria	bacterium_YC-LK-LKJ4
OTU_2252	Lentisphaerae	Bacteroidales_bacterium_55_9
OTU_2985	Bacteroidetes	Bacteroidia_bacterium_feline_oral_taxon_141
OTU_2420	Proteobacteria	beta_proteobacterium_LWH1
OTU_3315		candidate_division_TM7_bacterium_JGI_0001002 -L20
OTU_2669		Candidatus_Saccharibacteria_bacterium_GW201 1_GWC2_44_17
OTU_3381		Candidatus_Saccharibacteria_bacterium_GW201 1_GWC2_44_17
OTU_2897		Candidatus_Saccharibacteria_bacterium_GW201 1_GWC2_44_17
OTU_2095		Candidatus_Saccharibacteria_bacterium_RAAC3 _TM7_1

OTU_4103		Candidatus_Saccharibacteria_bacterium_RAAC3 _TM7_1
OTU_2368		Candidatus_Saccharibacteria_bacterium_UB2523
OTU_3073	Bacteroidetes	Chishuiella_sp_YIM_102668
OTU_2455	Chloroflexi	Chloroflexi_bacterium_OLB13
OTU_3789	Cyanobacteria	Chroococcidiopsis_sp_SAG_2025
OTU_1332	Firmicutes	Clostridiaceae_bacterium
OTU_1059	Firmicutes	Clostridiales_bacterium_enrichment_culture_clo ne_06-1235251-76
OTU_993	Firmicutes	Clostridiales_bacterium_FK041
OTU_110	Firmicutes	Clostridium_baratii
OTU_4696	Firmicutes	Clostridium_beijerinckii
OTU_3664	Firmicutes	Clostridium_bornimense
OTU_2789	Firmicutes	Clostridium_cadaveris
OTU_2479	Firmicutes	Clostridium_cavendishii
OTU_1731	Firmicutes	Clostridium_disporicum
OTU_1265	Firmicutes	Clostridium_intestinale

OTU_3680	Firmicutes	Clostridium_malenominatum
OTU_119	Firmicutes	Clostridium_novyi
OTU_8	Firmicutes	Clostridium_perfringens
OTU_1763	Melainabacteria	Clostridium_sp_CAG:306
OTU_2757	Cyanobacteria	Elliptochloris_bilobata
OTU_4251	Tenericutes	Firmicutes_bacterium_CAG:822
OTU_2394	Proteobacteria	Hypsibius_dujardini
OTU_2700	Cyanobacteria	Microcoleus_sp_LD10_5700_TP
OTU_3249	Cyanobacteria	Mychonastes_jurisii
OTU_1968	Firmicutes	Neofamilia_massiliensis
OTU_4431		Omnitrophica_WOR_2_bacterium_GWF2_63_9
OTU_3048	Cyanobacteria	Oryza_longistaminata
OTU_2809	Cyanobacteria	Prototheca_moriformis
OTU_3515	Melainabacteria	rumen_bacterium_YS2
OTU_2736		soil_bacterium_WF55
OTU_3477		soil_bacterium_WWH121
OTU_4129	Proteobacteria	Steroidobacter_sp_WWH78

OTU_1478	
OTU_3320	Acidobacteria
OTU_3096	Proteobacteria
OTU_2978	Proteobacteria
OTU_1987	Proteobacteria
OTU_3222	Firmicutes
OTU_427	Firmicutes
OTU_4306	Firmicutes
OTU_4005	Firmicutes
OTU_453	Firmicutes
OTU_1771	Firmicutes
OTU_3140	Firmicutes
OTU_4078	Firmicutes
OTU_440	Firmicutes
OTU_3733	Firmicutes
OTU_1999	Firmicutes
OTU_502	Firmicutes

TM7_phylum_sp_oral_clone_FR058
uncultivated_soil_bacterium_clone_C112

OTU_2951	Firmicutes
OTU_4110	Firmicutes
OTU_3123	Firmicutes
OTU_511	Firmicutes
OTU_1563	Firmicutes
OTU_3271	Firmicutes
OTU_2134	Firmicutes
OTU_835	Firmicutes
OTU_2294	Firmicutes
OTU_1502	Firmicutes
OTU_100	Firmicutes
OTU_2515	Firmicutes
OTU_2718	Firmicutes
OTU_2765	Firmicutes
OTU_259	Firmicutes
OTU_5	Firmicutes
OTU_4760	Firmicutes

OTU_1672	Firmicutes
OTU_1674	Firmicutes
OTU_1388	Firmicutes
OTU_3715	Firmicutes
OTU_1273	Firmicutes
OTU_375	Firmicutes
OTU_685	Firmicutes
OTU_2714	Firmicutes
OTU_4024	Firmicutes
OTU_2651	Firmicutes
OTU_2955	Firmicutes
OTU_828	Firmicutes
OTU_2581	Firmicutes
OTU_2585	Firmicutes
OTU_2178	Firmicutes
OTU_2767	Firmicutes
OTU_2308	Cyanobacteria

OTU_2081	Cyanobacteria
OTU_344	Cyanobacteria
OTU_2689	Cyanobacteria
OTU_3083	Cyanobacteria
OTU_3124	Chloroflexi
OTU_1766	Chloroflexi
OTU_3871	Acidobacteria
OTU_4602	Acidobacteria
OTU_3220	
OTU_3224	
OTU_3959	
OTU_2152	
OTU_524	
OTU_3276	
OTU_3143	
OTU_1243	
OTU_4247	

OTU_3278

OTU_3060

OTU_3112

OTU_3254

OTU_3816

OTU_4716

OTU_2473

OTU_1111

OTU_1479

OTU_3674

OTU_1366

OTU_2696

OTU_1961

OTU_1827

OTU_4684

OTU_4494 Proteobacteria

OTU_3135 Proteobacteria

OTU_4147	Proteobacteria
OTU_1060	Proteobacteria
OTU_2761	Proteobacteria
OTU_3179	Proteobacteria
OTU_2146	Firmicutes
OTU_4233	Firmicutes
OTU_4210	Firmicutes
OTU_1165	Firmicutes
OTU_2322	Firmicutes
OTU_4872	Firmicutes
OTU_3768	Firmicutes
OTU_127	Firmicutes
OTU_2894	Firmicutes
OTU_545	Firmicutes
OTU_3804	Firmicutes
OTU_3115	Firmicutes
OTU_3814	Firmicutes

OTU_2622	Firmicutes
OTU_1252	Firmicutes
OTU_1701	Firmicutes
OTU_2991	Firmicutes
OTU_4086	Firmicutes
OTU_3722	Firmicutes
OTU_2744	Firmicutes
OTU_1619	Firmicutes
OTU_417	Firmicutes
OTU_300	Firmicutes
OTU_3911	Firmicutes
OTU_1837	Firmicutes
OTU_3199	Firmicutes
OTU_1026	Firmicutes
OTU_4159	Acidobacteria
OTU_1666	Acidobacteria
OTU_1851	

OTU_3756

OTU_2828
Verrucomicrobi
a

OTU_3165
Verrucomicrobi
a

OTU_2310
Verrucomicrobi
a

OTU_3463
Verrucomicrobi
a

OTU_3498
Verrucomicrobi
a

OTU_4075
Verrucomicrobi
a

OTU_3444
Verrucomicrobi
a

OTU_4428
Verrucomicrobi
a

OTU_3632	Verrucomicrobi a
OTU_2737	Verrucomicrobi a
OTU_4172	Verrucomicrobi a
OTU_3784	Verrucomicrobi a
OTU_3173	Verrucomicrobi a
OTU_1489	Tenericutes
OTU_1038	Tenericutes
OTU_1037	Tenericutes
OTU_1922	Tenericutes
OTU_2546	Tenericutes
OTU_2786	Tenericutes
OTU_882	Tenericutes

OTU_1495	Tenericutes
OTU_1000	Tenericutes
OTU_3846	Tenericutes
OTU_1798	Tenericutes
OTU_633	Tenericutes
OTU_1013	Tenericutes
OTU_3848	Tenericutes
OTU_1947	Tenericutes
OTU_1942	Tenericutes
OTU_2713	Tenericutes
OTU_3145	Tenericutes
OTU_3144	Tenericutes
OTU_2910	Tenericutes
OTU_4111	Tenericutes
OTU_4555	Tenericutes
OTU_1984	Tenericutes
OTU_2183	Tenericutes

OTU_4903	Tenericutes
OTU_4278	Tenericutes
OTU_4612	Tenericutes
OTU_4124	Tenericutes
OTU_1180	Tenericutes
OTU_1223	Tenericutes
OTU_2192	Tenericutes
OTU_2429	Tenericutes
OTU_2043	Tenericutes
OTU_4868	Tenericutes
OTU_547	Tenericutes
OTU_4855	Tenericutes
OTU_2073	Tenericutes
OTU_4453	Tenericutes
OTU_1432	Tenericutes
OTU_2449	Tenericutes
OTU_2663	Tenericutes

OTU_2065	Tenericutes
OTU_3390	Tenericutes
OTU_2840	Tenericutes
OTU_1712	Tenericutes
OTU_1890	Tenericutes
OTU_1389	Tenericutes
OTU_1873	Tenericutes
OTU_3014	Tenericutes
OTU_2018	Tenericutes
OTU_3639	Tenericutes
OTU_3700	Tenericutes
OTU_2126	Tenericutes
OTU_4383	Tenericutes
OTU_2461	Tenericutes
OTU_3024	Tenericutes
OTU_4427	Tenericutes
OTU_2648	Tenericutes

OTU_4393	Tenericutes
OTU_471	Tenericutes
OTU_4069	Tenericutes
OTU_2771	Tenericutes
OTU_1291	Tenericutes
OTU_1474	Tenericutes
OTU_1612	Tenericutes
OTU_1109	Tenericutes
OTU_4026	Tenericutes
OTU_1051	Tenericutes
OTU_1805	Tenericutes
OTU_1440	Tenericutes
OTU_1836	Tenericutes
OTU_2671	Tenericutes
OTU_3362	Tenericutes
OTU_4643	Tenericutes
OTU_776	Tenericutes

OTU_1336	Tenericutes
OTU_2598	Tenericutes
OTU_2355	Tenericutes
OTU_3774	Tenericutes
OTU_2240	Tenericutes
OTU_2363	Spirochaetes
OTU_3427	Proteobacteria
OTU_2829	Proteobacteria
OTU_1482	Proteobacteria
OTU_1157	Proteobacteria
OTU_1159	Proteobacteria
OTU_3882	Proteobacteria
OTU_1033	Proteobacteria
OTU_1266	Proteobacteria
OTU_1325	Proteobacteria
OTU_1269	Proteobacteria
OTU_2545	Proteobacteria

OTU_3168	Proteobacteria
OTU_4521	Proteobacteria
OTU_888	Proteobacteria
OTU_889	Proteobacteria
OTU_1140	Proteobacteria
OTU_3897	Proteobacteria
OTU_2058	Proteobacteria
OTU_2508	Proteobacteria
OTU_3845	Proteobacteria
OTU_2151	Proteobacteria
OTU_2796	Proteobacteria
OTU_4312	Proteobacteria
OTU_854	Proteobacteria
OTU_121	Proteobacteria
OTU_2171	Proteobacteria
OTU_2417	Proteobacteria
OTU_4810	Proteobacteria

OTU_195	Proteobacteria
OTU_1372	Proteobacteria
OTU_1992	Proteobacteria
OTU_3042	Proteobacteria
OTU_3662	Proteobacteria
OTU_4249	Proteobacteria
OTU_621	Proteobacteria
OTU_473	Proteobacteria
OTU_1192	Proteobacteria
OTU_2942	Proteobacteria
OTU_4879	Proteobacteria
OTU_3767	Proteobacteria
OTU_4276	Proteobacteria
OTU_4125	Proteobacteria
OTU_1870	Proteobacteria
OTU_2232	Proteobacteria
OTU_3298	Proteobacteria

OTU_3900	Proteobacteria
OTU_3879	Proteobacteria
OTU_2336	Proteobacteria
OTU_4860	Proteobacteria
OTU_3446	Proteobacteria
OTU_4463	Proteobacteria
OTU_3486	Proteobacteria
OTU_813	Proteobacteria
OTU_4333	Proteobacteria
OTU_3255	Proteobacteria
OTU_3250	Proteobacteria
OTU_578	Proteobacteria
OTU_1656	Proteobacteria
OTU_2851	Proteobacteria
OTU_2443	Proteobacteria
OTU_2289	Proteobacteria
OTU_4625	Proteobacteria

OTU_2844	Proteobacteria
OTU_942	Proteobacteria
OTU_4605	Proteobacteria
OTU_3518	Proteobacteria
OTU_2012	Proteobacteria
OTU_3634	Proteobacteria
OTU_225	Proteobacteria
OTU_4362	Proteobacteria
OTU_793	Proteobacteria
OTU_4166	Proteobacteria
OTU_1721	Proteobacteria
OTU_2201	Proteobacteria
OTU_599	Proteobacteria
OTU_2469	Proteobacteria
OTU_2263	Proteobacteria
OTU_2481	Proteobacteria
OTU_4066	Proteobacteria

OTU_3917	Proteobacteria
OTU_4600	Proteobacteria
OTU_1129	Proteobacteria
OTU_3031	Proteobacteria
OTU_4416	Proteobacteria
OTU_2920	Proteobacteria
OTU_219	Proteobacteria
OTU_1915	Proteobacteria
OTU_2654	Proteobacteria
OTU_3572	Proteobacteria
OTU_4570	Proteobacteria
OTU_1592	Proteobacteria
OTU_4755	Proteobacteria
OTU_4797	Proteobacteria
OTU_2501	Proteobacteria
OTU_3182	Proteobacteria
OTU_4694	Proteobacteria

OTU_4093	Proteobacteria
OTU_2836	Proteobacteria
OTU_4213	Proteobacteria
OTU_2161	Proteobacteria
OTU_1337	Proteobacteria
OTU_2228	Proteobacteria
OTU_4160	Proteobacteria
OTU_2350	Proteobacteria
OTU_3770	Proteobacteria
OTU_4680	Proteobacteria
OTU_2777	Proteobacteria
OTU_2452	Planctomycetes
OTU_4096	Planctomycetes
OTU_2739	Planctomycetes
OTU_4812	Planctomycetes
OTU_3863	Planctomycetes
OTU_3779	Planctomycetes

OTU_1156	Melainabacteria
OTU_557	Melainabacteria
OTU_559	Melainabacteria
OTU_2206	Melainabacteria
OTU_3209	Melainabacteria
OTU_3203	Melainabacteria
OTU_1690	Melainabacteria
OTU_2307	Melainabacteria
OTU_1543	Melainabacteria
OTU_3211	Melainabacteria
OTU_869	Melainabacteria
OTU_1206	Melainabacteria
OTU_1996	Melainabacteria
OTU_4277	Melainabacteria
OTU_4471	Melainabacteria
OTU_1224	Melainabacteria
OTU_1744	Melainabacteria

OTU_860	Melainabacteria
OTU_659	Melainabacteria
OTU_650	Melainabacteria
OTU_752	Melainabacteria
OTU_1426	Melainabacteria
OTU_711	Melainabacteria
OTU_2859	Melainabacteria
OTU_934	Melainabacteria
OTU_3718	Melainabacteria
OTU_2762	Melainabacteria
OTU_3017	Melainabacteria
OTU_1415	Melainabacteria
OTU_2200	Melainabacteria
OTU_2489	Melainabacteria
OTU_2734	Melainabacteria
OTU_4373	Melainabacteria
OTU_1603	Melainabacteria

OTU_4170	Melainabacteria
OTU_656	Melainabacteria
OTU_3296	Melainabacteria
OTU_3725	Melainabacteria
OTU_2121	Melainabacteria
OTU_2115	Melainabacteria
OTU_1903	Melainabacteria
OTU_1637	Melainabacteria
OTU_1127	Melainabacteria
OTU_3461	Latescibacteria
OTU_3354	Latescibacteria
OTU_3862	Latescibacteria
OTU_4267	Latescibacteria
OTU_3864	Latescibacteria
OTU_2823	Latescibacteria
OTU_1969	Kiritimatiellaeot a

OTU_2050	Kiritimatiellaeot a
OTU_4613	Gracilibacteria
OTU_4262	Gracilibacteria
OTU_4885	Gemmatimonad etes
OTU_3487	Gemmatimonad etes
OTU_4046	Gemmatimonad etes
OTU_4429	Gemmatimonad etes
OTU_3965	Gemmatimonad etes
OTU_4205	Firmicutes
OTU_3093	Firmicutes
OTU_3760	Firmicutes

OTU_556	Firmicutes
OTU_4789	Firmicutes
OTU_3233	Firmicutes
OTU_2962	Firmicutes
OTU_424	Firmicutes
OTU_1494	Firmicutes
OTU_1496	Firmicutes
OTU_1003	Firmicutes
OTU_2051	Firmicutes
OTU_1957	Firmicutes
OTU_936	Firmicutes
OTU_3150	Firmicutes
OTU_4824	Firmicutes
OTU_1795	Firmicutes
OTU_638	Firmicutes
OTU_283	Firmicutes
OTU_1177	Firmicutes

OTU_856	Firmicutes
OTU_1012	Firmicutes
OTU_1304	Firmicutes
OTU_3932	Firmicutes
OTU_1943	Firmicutes
OTU_2096	Firmicutes
OTU_3141	Firmicutes
OTU_2410	Firmicutes
OTU_533	Firmicutes
OTU_537	Firmicutes
OTU_1784	Firmicutes
OTU_994	Firmicutes
OTU_75	Firmicutes
OTU_445	Firmicutes
OTU_4678	Firmicutes
OTU_1288	Firmicutes
OTU_1161	Firmicutes

OTU_1378	Firmicutes
OTU_3927	Firmicutes
OTU_3923	Firmicutes
OTU_1205	Firmicutes
OTU_3857	Firmicutes
OTU_3856	Firmicutes
OTU_2133	Firmicutes
OTU_2538	Firmicutes
OTU_3454	Firmicutes
OTU_2401	Firmicutes
OTU_3588	Firmicutes
OTU_1574	Firmicutes
OTU_1575	Firmicutes
OTU_109	Firmicutes
OTU_2811	Firmicutes
OTU_4241	Firmicutes
OTU_3269	Firmicutes

OTU_293	Firmicutes
OTU_1197	Firmicutes
OTU_874	Firmicutes
OTU_4558	Firmicutes
OTU_1368	Firmicutes
OTU_3125	Firmicutes
OTU_2616	Firmicutes
OTU_4875	Firmicutes
OTU_604	Firmicutes
OTU_4279	Firmicutes
OTU_4470	Firmicutes
OTU_3273	Firmicutes
OTU_4295	Firmicutes
OTU_262	Firmicutes
OTU_1227	Firmicutes
OTU_4126	Firmicutes
OTU_1189	Firmicutes

OTU_3621	Firmicutes
OTU_1350	Firmicutes
OTU_4830	Firmicutes
OTU_4898	Firmicutes
OTU_2195	Firmicutes
OTU_3110	Firmicutes
OTU_3069	Firmicutes
OTU_884	Firmicutes
OTU_3243	Firmicutes
OTU_3489	Firmicutes
OTU_1401	Firmicutes
OTU_4739	Firmicutes
OTU_4733	Firmicutes
OTU_3599	Firmicutes
OTU_1239	Firmicutes
OTU_1558	Firmicutes
OTU_2292	Firmicutes

OTU_831	Firmicutes
OTU_2291	Firmicutes
OTU_4852	Firmicutes
OTU_2072	Firmicutes
OTU_483	Firmicutes
OTU_1436	Firmicutes
OTU_4796	Firmicutes
OTU_4214	Firmicutes
OTU_672	Firmicutes
OTU_677	Firmicutes
OTU_571	Firmicutes
OTU_1513	Firmicutes
OTU_1886	Firmicutes
OTU_3636	Firmicutes
OTU_4446	Firmicutes
OTU_3536	Firmicutes
OTU_4154	Firmicutes

OTU_1668	Firmicutes
OTU_1090	Firmicutes
OTU_1380	Firmicutes
OTU_2039	Firmicutes
OTU_4239	Firmicutes
OTU_3822	Firmicutes
OTU_735	Firmicutes
OTU_731	Firmicutes
OTU_4380	Firmicutes
OTU_4389	Firmicutes
OTU_2872	Firmicutes
OTU_4762	Firmicutes
OTU_1738	Firmicutes
OTU_910	Firmicutes
OTU_128	Firmicutes
OTU_4734	Firmicutes
OTU_1262	Firmicutes

OTU_3838	Firmicutes
OTU_71	Firmicutes
OTU_2397	Firmicutes
OTU_2396	Firmicutes
OTU_2003	Firmicutes
OTU_3512	Firmicutes
OTU_2009	Firmicutes
OTU_2738	Firmicutes
OTU_1879	Firmicutes
OTU_4554	Firmicutes
OTU_4217	Firmicutes
OTU_4062	Firmicutes
OTU_1079	Firmicutes
OTU_3608	Firmicutes
OTU_1297	Firmicutes
OTU_1296	Firmicutes
OTU_2259	Firmicutes

OTU_3036	Firmicutes
OTU_2032	Firmicutes
OTU_2131	Firmicutes
OTU_3290	Firmicutes
OTU_2103	Firmicutes
OTU_2101	Firmicutes
OTU_591	Firmicutes
OTU_4348	Firmicutes
OTU_4345	Firmicutes
OTU_4749	Firmicutes
OTU_3637	Firmicutes
OTU_1524	Firmicutes
OTU_3189	Firmicutes
OTU_876	Firmicutes
OTU_148	Firmicutes
OTU_1753	Firmicutes
OTU_1044	Firmicutes

OTU_1045	Firmicutes
OTU_4823	Firmicutes
OTU_4187	Firmicutes
OTU_1825	Firmicutes
OTU_2029	Firmicutes
OTU_4774	Firmicutes
OTU_3440	Firmicutes
OTU_3441	Firmicutes
OTU_4409	Firmicutes
OTU_3526	Firmicutes
OTU_562	Firmicutes
OTU_3370	Firmicutes
OTU_3405	Firmicutes
OTU_941	Firmicutes
OTU_784	Firmicutes
OTU_1832	Firmicutes
OTU_2233	Firmicutes

OTU_1709	Firmicutes
OTU_1708	Firmicutes
OTU_3080	Firmicutes
OTU_1445	Firmicutes
OTU_2694	Firmicutes
OTU_3180	Firmicutes
OTU_2952	Firmicutes
OTU_4502	Firmicutes
OTU_3364	Firmicutes
OTU_2833	Firmicutes
OTU_4322	Firmicutes
OTU_4328	Firmicutes
OTU_1582	Firmicutes
OTU_4038	Firmicutes
OTU_3982	Firmicutes
OTU_3988	Firmicutes
OTU_3865	Firmicutes

OTU_3962	Firmicutes
OTU_4296	Firmicutes
OTU_1777	Firmicutes
OTU_4297	Firmicutes
OTU_1937	Firmicutes
OTU_1938	Firmicutes
OTU_1939	Firmicutes
OTU_2681	Firmicutes
OTU_3790	Firmicutes
OTU_3314	Firmicutes
OTU_3761	Elusimicrobia
OTU_1964	Elusimicrobia
OTU_4120	Cyanobacteria
OTU_2484	Cyanobacteria
OTU_4071	Cyanobacteria
OTU_3642	Crenarchaeota
OTU_3550	Chloroflexi

OTU_2831	Chloroflexi
OTU_3378	Chloroflexi
OTU_3954	Chloroflexi
OTU_3921	Chloroflexi
OTU_3928	Chloroflexi
OTU_3869	Chloroflexi
OTU_3694	Chloroflexi
OTU_2427	Chloroflexi
OTU_4136	Chloroflexi
OTU_4010	Chloroflexi
OTU_4858	Chloroflexi
OTU_3071	Chloroflexi
OTU_4142	Chloroflexi
OTU_4706	Chloroflexi
OTU_3531	Chloroflexi
OTU_2846	Chloroflexi
OTU_4045	Chloroflexi

OTU_3023	Chloroflexi
OTU_4557	Chloroflexi
OTU_3604	Chloroflexi
OTU_2860	Chloroflexi
OTU_4083	Chloroflexi
OTU_4741	Chloroflexi
OTU_4573	Chloroflexi
OTU_4893	Chloroflexi
OTU_3775	Chloroflexi
OTU_2040	Candidatus
OTU_3421	Bacteroidetes
OTU_3221	Bacteroidetes
OTU_3425	Bacteroidetes
OTU_397	Bacteroidetes
OTU_3839	Bacteroidetes
OTU_2365	Bacteroidetes
OTU_3163	Bacteroidetes

OTU_4520	Bacteroidetes
OTU_4528	Bacteroidetes
OTU_4783	Bacteroidetes
OTU_3238	Bacteroidetes
OTU_891	Bacteroidetes
OTU_1315	Bacteroidetes
OTU_2808	Bacteroidetes
OTU_2554	Bacteroidetes
OTU_3153	Bacteroidetes
OTU_180	Bacteroidetes
OTU_4000	Bacteroidetes
OTU_4319	Bacteroidetes
OTU_1019	Bacteroidetes
OTU_4536	Bacteroidetes
OTU_2099	Bacteroidetes
OTU_3453	Bacteroidetes
OTU_3459	Bacteroidetes

OTU_194	Bacteroidetes
OTU_4258	Bacteroidetes
OTU_3958	Bacteroidetes
OTU_4253	Bacteroidetes
OTU_2948	Bacteroidetes
OTU_4079	Bacteroidetes
OTU_4817	Bacteroidetes
OTU_2088	Bacteroidetes
OTU_1923	Bacteroidetes
OTU_2534	Bacteroidetes
OTU_500	Bacteroidetes
OTU_4808	Bacteroidetes
OTU_627	Bacteroidetes
OTU_192	Bacteroidetes
OTU_478	Bacteroidetes
OTU_4661	Bacteroidetes
OTU_4477	Bacteroidetes

OTU_1058	Bacteroidetes
OTU_2438	Bacteroidetes
OTU_4878	Bacteroidetes
OTU_4274	Bacteroidetes
OTU_4275	Bacteroidetes
OTU_4121	Bacteroidetes
OTU_863	Bacteroidetes
OTU_2989	Bacteroidetes
OTU_1354	Bacteroidetes
OTU_2893	Bacteroidetes
OTU_1220	Bacteroidetes
OTU_1221	Bacteroidetes
OTU_4835	Bacteroidetes
OTU_2601	Bacteroidetes
OTU_2609	Bacteroidetes
OTU_4598	Bacteroidetes
OTU_4263	Bacteroidetes

OTU_4268	Bacteroidetes
OTU_3488	Bacteroidetes
OTU_3806	Bacteroidetes
OTU_3546	Bacteroidetes
OTU_3119	Bacteroidetes
OTU_834	Bacteroidetes
OTU_4857	Bacteroidetes
OTU_3078	Bacteroidetes
OTU_3430	Bacteroidetes
OTU_289	Bacteroidetes
OTU_4452	Bacteroidetes
OTU_2856	Bacteroidetes
OTU_1722	Bacteroidetes
OTU_4794	Bacteroidetes
OTU_4332	Bacteroidetes
OTU_1653	Bacteroidetes
OTU_2518	Bacteroidetes

OTU_1086	Bacteroidetes
OTU_3396	Bacteroidetes
OTU_3005	Bacteroidetes
OTU_4442	Bacteroidetes
OTU_3710	Bacteroidetes
OTU_3537	Bacteroidetes
OTU_4151	Bacteroidetes
OTU_4158	Bacteroidetes
OTU_1713	Bacteroidetes
OTU_4711	Bacteroidetes
OTU_4607	Bacteroidetes
OTU_3818	Bacteroidetes
OTU_3388	Bacteroidetes
OTU_3013	Bacteroidetes
OTU_1251	Bacteroidetes
OTU_2725	Bacteroidetes
OTU_4436	Bacteroidetes

OTU_3702	Bacteroidetes
OTU_403	Bacteroidetes
OTU_4364	Bacteroidetes
OTU_3418	Bacteroidetes
OTU_4200	Bacteroidetes
OTU_3681	Bacteroidetes
OTU_4737	Bacteroidetes
OTU_3837	Bacteroidetes
OTU_3645	Bacteroidetes
OTU_1892	Bacteroidetes
OTU_4208	Bacteroidetes
OTU_3445	Bacteroidetes
OTU_2468	Bacteroidetes
OTU_3736	Bacteroidetes
OTU_2643	Bacteroidetes
OTU_217	Bacteroidetes
OTU_584	Bacteroidetes

OTU_4880	Bacteroidetes
OTU_4377	Bacteroidetes
OTU_4776	Bacteroidetes
OTU_3595	Bacteroidetes
OTU_4779	Bacteroidetes
OTU_4486	Bacteroidetes
OTU_4173	Bacteroidetes
OTU_475	Bacteroidetes
OTU_1072	Bacteroidetes
OTU_3299	Bacteroidetes
OTU_4413	Bacteroidetes
OTU_3501	Bacteroidetes
OTU_169	Bacteroidetes
OTU_4347	Bacteroidetes
OTU_4183	Bacteroidetes
OTU_4881	Bacteroidetes
OTU_4825	Bacteroidetes

OTU_1475	Bacteroidetes
OTU_1120	Bacteroidetes
OTU_2750	Bacteroidetes
OTU_3529	Bacteroidetes
OTU_3190	Bacteroidetes
OTU_563	Bacteroidetes
OTU_561	Bacteroidetes
OTU_4357	Bacteroidetes
OTU_4791	Bacteroidetes
OTU_4194	Bacteroidetes
OTU_3201	Bacteroidetes
OTU_2237	Bacteroidetes
OTU_2569	Bacteroidetes
OTU_3184	Bacteroidetes
OTU_773	Bacteroidetes
OTU_1130	Bacteroidetes
OTU_2906	Bacteroidetes

OTU_3177	Bacteroidetes
OTU_4259	Bacteroidetes
OTU_2571	Bacteroidetes
OTU_3772	Bacteroidetes
OTU_3777	Bacteroidetes
OTU_4689	Bacteroidetes
OTU_1767	Bacteroidetes
OTU_4606	Armatimonadetes
OTU_3229	Actinobacteria
OTU_3956	Actinobacteria
OTU_393	Actinobacteria
OTU_2217	Actinobacteria
OTU_1267	Actinobacteria
OTU_2360	Actinobacteria
OTU_4526	Actinobacteria
OTU_2052	Actinobacteria

OTU_4586	Actinobacteria
OTU_1840	Actinobacteria
OTU_2267	Actinobacteria
OTU_3938	Actinobacteria
OTU_2522	Actinobacteria
OTU_4537	Actinobacteria
OTU_2636	Actinobacteria
OTU_3458	Actinobacteria
OTU_4676	Actinobacteria
OTU_4677	Actinobacteria
OTU_4501	Actinobacteria
OTU_1997	Actinobacteria
OTU_1570	Actinobacteria
OTU_1190	Actinobacteria
OTU_2863	Actinobacteria
OTU_3120	Actinobacteria
OTU_2617	Actinobacteria

OTU_3547	Actinobacteria
OTU_4861	Actinobacteria
OTU_4132	Actinobacteria
OTU_4139	Actinobacteria
OTU_4723	Actinobacteria
OTU_4799	Actinobacteria
OTU_3108	Actinobacteria
OTU_3079	Actinobacteria
OTU_4455	Actinobacteria
OTU_2514	Actinobacteria
OTU_3004	Actinobacteria
OTU_3717	Actinobacteria
OTU_3533	Actinobacteria
OTU_2278	Actinobacteria
OTU_2493	Actinobacteria
OTU_3382	Actinobacteria
OTU_4544	Actinobacteria

OTU_1673	Actinobacteria
OTU_3719	Actinobacteria
OTU_4732	Actinobacteria
OTU_4580	Actinobacteria
OTU_4480	Actinobacteria
OTU_1844	Actinobacteria
OTU_1845	Actinobacteria
OTU_3282	Actinobacteria
OTU_4394	Actinobacteria
OTU_3913	Actinobacteria
OTU_4179	Actinobacteria
OTU_4171	Actinobacteria
OTU_2817	Actinobacteria
OTU_1277	Actinobacteria
OTU_4567	Actinobacteria
OTU_3618	Actinobacteria
OTU_4027	Actinobacteria

OTU_2658	Actinobacteria
OTU_4384	Actinobacteria
OTU_4193	Actinobacteria
OTU_4517	Actinobacteria
OTU_2451	Actinobacteria
OTU_4341	Actinobacteria
OTU_2235	Actinobacteria
OTU_359	Actinobacteria
OTU_2564	Actinobacteria
OTU_2565	Actinobacteria
OTU_4504	Actinobacteria
OTU_4327	Actinobacteria
OTU_1589	Actinobacteria
OTU_4294	Actinobacteria
OTU_3527	Actinobacteria
OTU_3084	Actinobacteria
OTU_2572	Actinobacteria

OTU_3797	Actinobacteria
OTU_3887	Acidobacteria
OTU_3762	Acidobacteria
OTU_2553	Acidobacteria
OTU_3926	Acidobacteria
OTU_3040	Acidobacteria
OTU_4703	Acidobacteria
OTU_3866	Acidobacteria
OTU_3867	Acidobacteria
OTU_3059	Acidobacteria
OTU_3766	Acidobacteria
OTU_3901	Acidobacteria
OTU_2196	Acidobacteria
OTU_3603	Acidobacteria
OTU_4095	Acidobacteria
OTU_3002	Acidobacteria
OTU_4590	Acidobacteria

OTU_4438	Acidobacteria
OTU_4368	Acidobacteria
OTU_4162	Acidobacteria
OTU_4167	Acidobacteria
OTU_4815	Acidobacteria
OTU_2799	Acidobacteria
OTU_3746	Acidobacteria
OTU_4508	Acidobacteria
OTU_4324	Acidobacteria
OTU_3413	Acidobacteria
OTU_2822	Acidobacteria
OTU_2229	Acidobacteria
OTU_3820	Acidobacteria
OTU_2685	Acidobacteria
OTU_3420	
OTU_3228	
OTU_1483	

OTU_3889

OTU_2215

OTU_3554

OTU_2548

OTU_3166

OTU_4788

OTU_3840

OTU_1658

OTU_4531

OTU_3330

OTU_3448

OTU_3449

OTU_4475

OTU_3931

OTU_3447

OTU_3849

OTU_2684

OTU_2416

OTU_3329

OTU_4256

OTU_3219

OTU_419

OTU_840

OTU_3442

OTU_3929

OTU_1993

OTU_2316

OTU_2311

OTU_4807

OTU_3460

OTU_3467

OTU_3582

OTU_2439

OTU_3690

OTU_3698

OTU_3054

OTU_4901

OTU_4902

OTU_4051

OTU_3874

OTU_2423

OTU_4865

OTU_4863

OTU_3061

OTU_2041

OTU_3248

OTU_3242

OTU_815

OTU_4044

OTU_4232

OTU_3542

OTU_4318

OTU_4017

OTU_2454

OTU_2453

OTU_4450

OTU_4631

OTU_1972

OTU_2510

OTU_3810

OTU_1864

OTU_2990

OTU_4842

OTU_4848

OTU_4441

OTU_4621

OTU_2841

OTU_2834

OTU_2768

OTU_3829

OTU_2383

OTU_1871

OTU_4039

OTU_2015

OTU_4434

OTU_3708

OTU_4094

OTU_4763

OTU_2701

OTU_2261

OTU_1284

OTU_3281

OTU_4424

OTU_4397

OTU_4559

OTU_4378

OTU_4085

OTU_4772

OTU_4464

OTU_1728

OTU_3294

OTU_3503

OTU_4560

OTU_4340

OTU_968

OTU_2921

OTU_4180

OTU_1103

OTU_1102

OTU_2798

OTU_2754

OTU_4407

OTU_3752

OTU_4579

OTU_4574

OTU_4576

OTU_4191

OTU_3992

OTU_3409

OTU_4549

OTU_3193

OTU_2898

OTU_4481

OTU_3568

OTU_4365

OTU_4647

OTU_1634

OTU_2959

OTU_2826

OTU_3650

OTU_3652

OTU_665

OTU_3964

OTU_2597

OTU_2596

OTU_2940

OTU_3081

OTU_3089

OTU_3171

OTU_3312

Supplementary Table 4 Phyla Average of mean relative abundances and of bacterial phyla associated with rats at nine sites

Taxonomy	YGL	HJL	DZ	DF	HK	JFL	BS	SY	LG	Average
Firmicutes	58.24%	47.63%	76.45%	68.80%	79.36%	56.07%	84.96%	60.89%	59.41%	65.76%
Bacteroidetes	26.57%	25.85%	3.72%	16.23%	1.15%	16.48%	6.12%	31.77%	12.10%	15.55%
Proteobacteria	5.41%	4.69%	13.20%	3.09%	8.31%	6.61%	6.23%	0.99%	6.68%	6.13%
Actinobacteria	0.32%	1.55%	2.22%	1.13%	8.53%	6.70%	1.77%	1.18%	12.78%	4.02%
unidentified_Bacteria	6.10%	12.52%	2.86%	1.76%	1.04%	2.97%	0.08%	4.02%	1.80%	3.68%
Tenericutes	1.39%	5.96%	0.46%	2.20%	0.19%	6.35%	0.07%	0.05%	0.71%	1.93%
Fusobacteria	0.07%	0.02%	0.95%	5.50%	1.22%	0.19%	0.60%	0.39%	0.04%	1.00%
Spirochaetes	0.25%	0.67%	0.13%	1.07%	0.01%	1.88%	0.06%	0.34%	3.51%	0.88%
Chlamydiae	0.00%	0.00%	0.00%	0.01%	0.01%	0.00%	0.00%	0.02%	2.43%	0.27%
Melainabacteria	0.74%	0.38%	0.01%	0.11%	0.07%	0.09%	0.02%	0.05%	0.05%	0.17%
Cyanobacteria	0.00%	0.00%	0.01%	0.01%	0.01%	0.92%	0.03%	0.06%	0.11%	0.13%
Deferribacteres	0.33%	0.28%	0.00%	0.01%	0.00%	0.09%	0.01%	0.18%	0.17%	0.12%
Verrucomicrobia	0.33%	0.28%	0.00%	0.02%	0.05%	0.08%	0.00%	0.00%	0.08%	0.09%
Others	0.10%	0.05%	0.00%	0.01%	0.02%	0.47%	0.01%	0.03%	0.06%	0.08%
Euryarchaeota	0.00%	0.00%	0.00%	0.00%	0.00%	0.51%	0.01%	0.04%	0.01%	0.06%

Supplementary Table 5 Class Average of mean relative abundances and of bacterial class associated with rats at nine sites

Taxonomy	YGL	HJL	DZ	DF	HK	JFL	BS	SY	LG	Average
Bacilli	9.24%	10.09%	43.51%	41.70%	27.73%	24.06%	39.85%	5.75%	36.39%	26.48%
Clostridia	45.17%	35.68%	31.53%	18.95%	48.56%	14.30%	39.92%	37.65%	22.69%	32.72%
Gammaproteobacteria	2.43%	1.89%	12.87%	2.03%	3.28%	2.76%	4.52%	0.35%	5.09%	3.91%
unidentified_Bacteria	6.10%	12.52%	2.86%	1.76%	1.04%	2.97%	0.08%	4.02%	1.80%	3.68%
Bacteroidia	26.57%	25.85%	3.72%	16.23%	1.15%	16.48%	6.12%	31.77%	12.10%	15.55%
Erysipelotrichia	3.06%	1.00%	0.88%	7.44%	2.42%	17.58%	4.77%	12.27%	0.11%	5.50%
unidentified_Chlamydiae	0.00%	0.00%	0.00%	0.01%	0.01%	0.00%	0.00%	0.02%	2.43%	0.27%
Mollicutes	1.39%	5.96%	0.46%	2.20%	0.19%	6.35%	0.07%	0.05%	0.71%	1.93%
unidentified_Actinobacteria	0.12%	1.42%	2.07%	0.85%	8.12%	2.92%	1.28%	0.62%	12.47%	3.32%
Fusobacteriia	0.07%	0.02%	0.95%	5.50%	1.22%	0.19%	0.60%	0.39%	0.04%	1.00%
Spirochaetia	0.25%	0.67%	0.13%	1.07%	0.01%	1.88%	0.06%	0.33%	3.51%	0.88%
Alphaproteobacteria	0.50%	0.34%	0.03%	0.13%	3.50%	0.83%	0.05%	0.09%	0.97%	0.72%
Deltaproteobacteria	2.40%	2.02%	0.30%	0.85%	1.53%	3.01%	1.66%	0.55%	0.61%	1.44%
Negativicutes	0.70%	0.85%	0.53%	0.71%	0.67%	0.13%	0.42%	5.20%	0.20%	1.05%
Coriobacteriia	0.20%	0.13%	0.15%	0.27%	0.29%	3.65%	0.49%	0.56%	0.28%	0.67%

unidentified_Cyanobacteria	0.00%	0.00%	0.01%	0.01%	0.01%	0.91%	0.03%	0.06%	0.11%	0.13%
Verrucomicrobiae	0.33%	0.28%	0.00%	0.02%	0.05%	0.08%	0.00%	0.00%	0.08%	0.09%
Methanobacteria	0.00%	0.00%	0.00%	0.00%	0.00%	0.51%	0.01%	0.04%	0.00%	0.06%
unidentified_Deferribacteres	0.33%	0.28%	0.00%	0.01%	0.00%	0.09%	0.01%	0.18%	0.17%	0.12%
unidentified_Elusimicrobia	0.14%	0.12%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.01%	0.03%
unidentified_Acidobacteria	0.00%	0.00%	0.00%	0.00%	0.00%	0.13%	0.00%	0.00%	0.00%	0.02%
unidentified_Gemmatimonadetes	0.00%	0.00%	0.00%	0.00%	0.00%	0.11%	0.00%	0.00%	0.02%	0.01%
Acidimicrobiia	0.00%	0.00%	0.00%	0.00%	0.11%	0.06%	0.00%	0.00%	0.02%	0.02%
Nitrososphaeria	0.00%	0.00%	0.00%	0.00%	0.00%	0.05%	0.00%	0.00%	0.00%	0.01%
Thermoleophilia	0.00%	0.00%	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.01%	0.01%
Fibrobacteria	0.02%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Synergistia	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%
Acidobacteriia	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%	0.00%	0.00%	0.01%	0.00%
Holophagae	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%
Chloroflexia	0.00%	0.00%	0.00%	0.00%	0.01%	0.02%	0.00%	0.00%	0.00%	0.00%
Anaerolineae	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%
Phycisphaerae	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%

Others	0.97%	0.87%	0.01%	0.21%	0.09%	0.69%	0.03%	0.10%	0.13%	0.34%
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Supplementary Table 6 family Average of mean relative abundances and of bacterial family associated with rats at nine sites

Taxonomy	YGL	HJL	DZ	DF	HK	JFL	BS	SY	LG	Average
Lactobacillaceae	8.27%	10.02%	34.03%	26.94%	14.94%	21.44%	29.09%	3.08%	32.91%	20.08%
Ruminococcaceae	21.12%	21.43%	2.30%	9.52%	3.23%	7.09%	21.31%	15.04%	7.21%	12.03%
Lachnospiraceae	17.80%	10.17%	0.84%	5.66%	3.06%	3.87%	9.50%	18.17%	3.94%	8.11%
Muribaculaceae	12.39%	18.82%	0.39%	3.04%	0.34%	12.41%	2.22%	2.67%	4.70%	6.33%
Peptostreptococcaceae	0.96%	0.04%	10.46%	2.08%	21.22%	0.31%	5.08%	1.09%	9.23%	5.61%
unidentified_Clostridiales	2.55%	1.51%	17.77%	1.07%	20.65%	1.00%	2.95%	1.19%	1.53%	5.58%
Erysipelotrichaceae	3.06%	1.00%	0.88%	7.44%	2.42%	17.58%	4.77%	12.27%	0.11%	5.50%
Bacteroidaceae	1.10%	0.38%	0.40%	8.28%	0.17%	0.39%	0.69%	21.30%	0.25%	3.66%
Enterobacteriaceae	1.24%	1.33%	12.68%	1.74%	2.98%	0.71%	4.43%	0.21%	3.89%	3.25%
Streptococcaceae	0.37%	0.03%	3.49%	7.38%	6.86%	0.93%	3.36%	0.88%	1.04%	2.71%
Prevotellaceae	4.17%	2.30%	2.63%	1.38%	0.49%	2.64%	2.49%	2.99%	3.24%	2.48%
Others	7.28%	4.44%	0.15%	2.16%	0.50%	4.11%	0.46%	0.51%	2.68%	2.48%
Helicobacteraceae	4.79%	12.13%	0.61%	0.72%	0.58%	0.58%	0.02%	0.59%	1.59%	2.40%
Mycoplasmataceae	0.87%	5.83%	0.44%	1.98%	0.05%	6.20%	0.03%	0.02%	0.65%	1.79%
Corynebacteriaceae	0.01%	0.00%	1.47%	0.31%	3.85%	0.03%	0.08%	0.01%	10.02%	1.75%

Desulfovibrionaceae	2.38%	1.99%	0.30%	0.85%	1.52%	2.87%	1.66%	0.54%	0.60%	1.41%
Rikenellaceae	5.11%	1.55%	0.15%	0.91%	0.11%	0.48%	0.35%	1.15%	2.04%	1.32%
Enterococcaceae	0.05%	0.01%	2.05%	1.17%	2.14%	0.26%	4.67%	0.47%	0.68%	1.28%
Campylobacteraceae	1.02%	0.04%	2.20%	0.04%	0.12%	2.16%	0.04%	3.41%	0.00%	1.00%
Fusobacteriaceae	0.06%	0.02%	0.95%	5.50%	1.22%	0.03%	0.60%	0.39%	0.04%	0.98%
Veillonellaceae	0.62%	0.85%	0.42%	0.36%	0.63%	0.13%	0.11%	4.80%	0.19%	0.90%
Spirochaetaceae	0.25%	0.67%	0.13%	1.07%	0.01%	1.88%	0.06%	0.33%	3.51%	0.88%
Staphylococcaceae	0.01%	0.00%	1.16%	3.93%	0.84%	0.02%	0.08%	0.21%	1.23%	0.83%
unidentified_Bacillales	0.02%	0.00%	0.10%	1.04%	0.48%	0.07%	2.50%	1.04%	0.06%	0.59%
Micrococcaceae	0.06%	0.00%	0.22%	0.11%	1.19%	1.08%	0.94%	0.12%	0.55%	0.48%
Bifidobacteriaceae	0.03%	1.41%	0.01%	0.01%	0.17%	1.37%	0.04%	0.46%	0.75%	0.47%
Aerococcaceae	0.24%	0.01%	2.28%	0.88%	0.09%	0.04%	0.08%	0.00%	0.32%	0.44%
Tannerellaceae	0.30%	0.13%	0.09%	0.62%	0.01%	0.03%	0.06%	2.16%	0.14%	0.39%
Atopobiaceae	0.09%	0.07%	0.00%	0.01%	0.00%	3.19%	0.01%	0.01%	0.01%	0.38%
Burkholderiaceae	0.72%	0.37%	0.02%	0.04%	0.04%	1.23%	0.05%	0.07%	0.14%	0.30%
Marinifilaceae	0.68%	0.10%	0.01%	0.76%	0.01%	0.06%	0.05%	0.72%	0.12%	0.28%
unidentified_Bacteria	0.30%	0.35%	0.04%	1.00%	0.34%	0.23%	0.01%	0.01%	0.20%	0.28%

Chlamydiaceae	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.02%	2.43%	0.27%
Leuconostocaceae	0.00%	0.00%	0.11%	0.12%	2.09%	0.09%	0.00%	0.02%	0.00%	0.27%
Christensenellaceae	0.09%	0.14%	0.05%	0.19%	0.31%	0.49%	0.59%	0.37%	0.04%	0.25%
Rhodobacteraceae	0.00%	0.00%	0.01%	0.01%	1.99%	0.02%	0.01%	0.00%	0.02%	0.23%
Amoebophilaceae	0.00%	1.72%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.19%
Eubacteriaceae	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.02%	1.52%	0.01%	0.17%
Acidaminococcaceae	0.09%	0.00%	0.11%	0.35%	0.04%	0.00%	0.31%	0.40%	0.01%	0.15%
Eggerthellaceae	0.09%	0.04%	0.06%	0.16%	0.13%	0.31%	0.25%	0.18%	0.05%	0.14%
Rhizobiaceae	0.01%	0.00%	0.01%	0.03%	1.02%	0.06%	0.01%	0.01%	0.06%	0.13%
Succinivibrionaceae	0.39%	0.16%	0.03%	0.02%	0.01%	0.01%	0.01%	0.03%	0.50%	0.13%
unidentified_Cyanobacteria	0.00%	0.00%	0.01%	0.01%	0.01%	0.91%	0.03%	0.06%	0.11%	0.13%
Deferribacteraceae	0.33%	0.28%	0.00%	0.01%	0.00%	0.09%	0.01%	0.18%	0.17%	0.12%
Microbacteriaceae	0.00%	0.00%	0.05%	0.03%	0.23%	0.18%	0.03%	0.00%	0.48%	0.11%
Coriobacteriaceae	0.00%	0.00%	0.08%	0.10%	0.15%	0.00%	0.23%	0.36%	0.00%	0.10%
Sphingomonadaceae	0.00%	0.00%	0.00%	0.01%	0.05%	0.28%	0.00%	0.01%	0.48%	0.09%
Intrasporangiaceae	0.00%	0.00%	0.01%	0.01%	0.70%	0.02%	0.01%	0.00%	0.00%	0.08%
Barnesiellaceae	0.06%	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.61%	0.00%	0.08%

Dietziaceae	0.00%	0.00%	0.02%	0.01%	0.35%	0.00%	0.03%	0.00%	0.30%	0.08%
Akkermansiaceae	0.33%	0.28%	0.00%	0.02%	0.05%	0.02%	0.00%	0.00%	0.00%	0.08%
Brevibacteriaceae	0.00%	0.00%	0.17%	0.11%	0.38%	0.00%	0.01%	0.00%	0.03%	0.08%
Actinomycetaceae	0.00%	0.00%	0.02%	0.19%	0.23%	0.05%	0.11%	0.01%	0.04%	0.07%
Moraxellaceae	0.01%	0.01%	0.02%	0.13%	0.14%	0.06%	0.00%	0.02%	0.25%	0.07%
Peptococcaceae	0.03%	0.02%	0.05%	0.02%	0.02%	0.02%	0.37%	0.03%	0.01%	0.06%
Methanobacteriaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.51%	0.01%	0.04%	0.00%	0.06%
Anaeroplasmataceae	0.35%	0.01%	0.00%	0.01%	0.00%	0.06%	0.00%	0.01%	0.02%	0.05%
Planococcaceae	0.00%	0.00%	0.20%	0.01%	0.12%	0.01%	0.00%	0.02%	0.08%	0.05%
Paracaedibacteraceae	0.04%	0.11%	0.00%	0.02%	0.00%	0.15%	0.00%	0.05%	0.07%	0.05%
Pasteurellaceae	0.06%	0.01%	0.11%	0.04%	0.00%	0.01%	0.01%	0.00%	0.11%	0.04%
Bacillaceae	0.00%	0.00%	0.01%	0.13%	0.12%	0.07%	0.01%	0.01%	0.00%	0.04%
Dermacoccaceae	0.00%	0.00%	0.00%	0.01%	0.29%	0.00%	0.00%	0.00%	0.00%	0.03%
Xanthomonadaceae	0.00%	0.00%	0.00%	0.03%	0.02%	0.21%	0.00%	0.00%	0.03%	0.03%
Elusimicrobiaceae	0.14%	0.12%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.01%	0.03%
Beijerinckiaceae	0.00%	0.00%	0.00%	0.01%	0.19%	0.02%	0.02%	0.01%	0.01%	0.03%
Dermabacteraceae	0.00%	0.00%	0.07%	0.02%	0.12%	0.00%	0.00%	0.00%	0.03%	0.03%

Nocardioideaceae	0.00%	0.00%	0.00%	0.01%	0.16%	0.03%	0.01%	0.00%	0.02%	0.03%
Chitinophagaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.17%	0.00%	0.00%	0.02%	0.02%
unidentified_Rhizobiales	0.00%	0.00%	0.00%	0.01%	0.11%	0.03%	0.00%	0.00%	0.02%	0.02%
Xanthobacteraceae	0.00%	0.00%	0.00%	0.00%	0.02%	0.04%	0.00%	0.00%	0.10%	0.02%
Propionibacteriaceae	0.00%	0.00%	0.01%	0.01%	0.10%	0.01%	0.01%	0.00%	0.02%	0.02%
Leptotrichiaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.15%	0.00%	0.00%	0.00%	0.02%
Methylophilaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.15%	0.00%	0.00%	0.00%	0.02%
Flavobacteriaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.14%	0.02%
Nitrosomonadaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.13%	0.00%	0.00%	0.00%	0.02%
Carnobacteriaceae	0.00%	0.00%	0.05%	0.01%	0.01%	0.00%	0.02%	0.00%	0.04%	0.02%
unidentified_Cardiobacteriales	0.00%	0.00%	0.00%	0.00%	0.04%	0.03%	0.01%	0.00%	0.05%	0.02%
Nocardiaceae	0.00%	0.00%	0.00%	0.00%	0.12%	0.00%	0.00%	0.00%	0.01%	0.01%
Gemmatimonadaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.11%	0.00%	0.00%	0.02%	0.01%
unidentified_Gammaproteobacteria	0.00%	0.00%	0.00%	0.00%	0.02%	0.07%	0.00%	0.00%	0.01%	0.01%
Microscillaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.10%	0.00%	0.00%	0.01%	0.01%
unidentified_Micrococcales	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.09%	0.01%
unidentified_Flavobacteriales	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.09%	0.01%

unidentified_Alphaproteobacteria	0.00%	0.00%	0.00%	0.00%	0.00%	0.08%	0.00%	0.00%	0.01%	0.01%
unidentified_Acidobacteria	0.00%	0.00%	0.00%	0.00%	0.00%	0.09%	0.00%	0.00%	0.00%	0.01%
Puniceicoccaceae	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.08%	0.01%
Halomonadaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.06%	0.01%
Sanguibacteraceae	0.00%	0.00%	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.03%	0.01%
Mycobacteriaceae	0.00%	0.00%	0.00%	0.00%	0.03%	0.03%	0.00%	0.00%	0.00%	0.01%
Acetobacteraceae	0.00%	0.00%	0.00%	0.00%	0.04%	0.01%	0.00%	0.00%	0.00%	0.01%
unidentified_Acidimicrobiia	0.00%	0.00%	0.00%	0.00%	0.06%	0.00%	0.00%	0.00%	0.00%	0.01%
Geodermatophilaceae	0.00%	0.00%	0.00%	0.00%	0.02%	0.04%	0.00%	0.00%	0.00%	0.01%
Sphingobacteriaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.04%	0.01%
Nitrososphaeraceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.05%	0.00%	0.00%	0.00%	0.01%
Iamiaceae	0.00%	0.00%	0.00%	0.00%	0.04%	0.01%	0.00%	0.00%	0.00%	0.01%
Haliangiaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.01%	0.01%
Pseudomonadaceae	0.00%	0.00%	0.00%	0.01%	0.01%	0.02%	0.00%	0.00%	0.01%	0.01%
Pyrimonadaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.05%	0.00%	0.00%	0.00%	0.01%
Saprosiraceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.00%	0.01%
Rhodanobacteraceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.01%	0.00%

Dermatophilaceae	0.00%	0.00%	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Synergistaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%
Defluviitaleaceae	0.01%	0.01%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
unidentified_Solibacterales	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.01%	0.00%
Caulobacteraceae	0.00%	0.00%	0.00%	0.00%	0.01%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%
Tsukamurellaceae	0.00%	0.00%	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
unidentified_Rubrobacterales	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Fibrobacteraceae	0.02%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Streptomycetaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.02%	0.00%
unidentified_Bacteroidales	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%
Sporichthyaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%
Pseudonocardiaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	0.00%
Hymenobacteraceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%
Neisseriaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	0.00%
Shewanellaceae	0.00%	0.00%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Spirosomaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%
Nitrospiraceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	0.00%

Porphyromonadaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%
unidentified_Melainabacteria	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Paludibacteraceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%
Micromonosporaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Roseiflexaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Parachlamydiaceae	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Longimicrobiaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Solirubrobacteraceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Verrucomicrobiaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
unidentified_Chloroflexi	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Polyangiaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Hyphomonadaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Geminicoccaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Methanocorpusculaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%
Gaiellaceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Kineosporiaceae	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Nakamurellaceae	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%

Supplementary Table 7 Genus Average of mean relative abundances and of bacterial genus associated with rats at nine sites

Taxonomy	YGL	HJL	DZ	DF	HK	JFL	BS	SY	LG	Average
Others	54.03%	47.66%	16.93%	15.13%	8.51%	35.32%	20.79%	17.39%	25.42%	26.80%
Lactobacillus	8.27%	10.02%	34.03%	26.94%	14.92%	21.44%	29.08%	3.08%	32.91%	20.08%
unidentified_Clostridiales	2.23%	1.43%	17.63%	0.68%	18.88%	0.59%	2.45%	1.08%	1.46%	5.16%
Romboutsia	0.96%	0.03%	8.87%	0.97%	16.15%	0.29%	1.91%	0.67%	9.13%	4.33%
unidentified_Ruminococcaceae	8.06%	6.70%	0.32%	3.85%	1.26%	3.19%	4.81%	4.21%	2.06%	3.83%
Bacteroides	1.10%	0.38%	0.40%	8.28%	0.17%	0.39%	0.69%	21.30%	0.25%	3.66%
Helicobacter	4.79%	12.13%	0.61%	0.72%	0.58%	0.58%	0.02%	0.59%	1.59%	2.40%
Streptococcus	0.26%	0.02%	3.45%	7.29%	4.46%	0.91%	3.19%	0.86%	0.90%	2.37%
unidentified_Corynebacteriaceae	0.01%	0.00%	1.47%	0.30%	3.83%	0.00%	0.07%	0.01%	9.93%	1.74%
Mycoplasma	0.86%	5.78%	0.06%	1.98%	0.04%	4.88%	0.02%	0.02%	0.55%	1.58%
Allobaculum	0.56%	0.60%	0.01%	0.09%	0.24%	9.24%	0.24%	1.16%	0.00%	1.35%
Faecalibacterium	0.01%	0.01%	0.59%	1.48%	0.03%	0.12%	9.40%	0.16%	0.04%	1.31%
Enterococcus	0.01%	0.01%	1.97%	0.51%	2.11%	0.19%	4.14%	0.47%	0.62%	1.11%
Intestinimonas	2.42%	3.86%	0.01%	0.59%	0.05%	0.39%	0.73%	0.13%	1.35%	1.06%
Desulfovibrio	1.95%	1.97%	0.08%	0.69%	0.01%	2.78%	1.04%	0.33%	0.25%	1.01%

Campylobacter	1.02%	0.04%	2.20%	0.04%	0.12%	2.16%	0.04%	3.41%	0.00%	1.00%
Fusobacterium	0.06%	0.02%	0.95%	5.49%	1.22%	0.01%	0.60%	0.39%	0.04%	0.98%
unidentified_Lachnospiraceae	1.75%	0.61%	0.12%	1.61%	0.94%	0.72%	0.70%	1.75%	0.50%	0.97%
Holdemanella	0.00%	0.00%	0.62%	1.09%	0.20%	0.02%	1.55%	4.60%	0.00%	0.90%
Lachnospira	0.02%	0.03%	0.05%	0.01%	0.00%	0.05%	1.06%	6.69%	0.01%	0.88%
Blautia	0.05%	0.01%	0.21%	1.67%	0.96%	0.05%	2.64%	1.22%	0.03%	0.76%
Staphylococcus	0.00%	0.00%	1.02%	3.90%	0.47%	0.02%	0.07%	0.21%	0.78%	0.72%
Alloprevotella	0.67%	0.89%	0.31%	0.47%	0.06%	1.15%	0.66%	0.64%	1.00%	0.65%
Subdoligranulum	0.01%	0.00%	0.04%	0.02%	0.08%	0.07%	0.12%	4.95%	0.02%	0.59%
Gemella	0.02%	0.00%	0.10%	1.04%	0.48%	0.07%	2.50%	1.04%	0.06%	0.59%
Megamonas	0.00%	0.00%	0.21%	0.20%	0.00%	0.03%	0.04%	4.66%	0.00%	0.57%
Peptoclostridium	0.00%	0.00%	0.09%	0.83%	0.95%	0.02%	2.94%	0.27%	0.00%	0.57%
Dubosiella	0.04%	0.02%	0.00%	0.00%	0.00%	4.16%	0.01%	0.01%	0.00%	0.47%
Alistipes	1.81%	0.54%	0.03%	0.34%	0.03%	0.37%	0.09%	0.62%	0.35%	0.46%
Bifidobacterium	0.03%	1.41%	0.01%	0.01%	0.08%	1.36%	0.04%	0.46%	0.75%	0.46%
Erysipelatoclostridium	0.00%	0.00%	0.01%	0.17%	0.52%	0.01%	0.02%	2.97%	0.00%	0.41%
Faecalitalea	0.00%	0.00%	0.05%	3.33%	0.19%	0.00%	0.03%	0.01%	0.00%	0.40%

Parabacteroides	0.30%	0.13%	0.09%	0.62%	0.01%	0.03%	0.06%	2.16%	0.14%	0.39%
Rothia	0.05%	0.00%	0.06%	0.07%	0.99%	0.93%	0.89%	0.11%	0.15%	0.36%
Paraclostridium	0.00%	0.00%	0.34%	0.13%	2.53%	0.00%	0.04%	0.04%	0.01%	0.34%
Lactococcus	0.12%	0.01%	0.04%	0.09%	2.39%	0.02%	0.17%	0.02%	0.13%	0.33%
Aerococcus	0.14%	0.01%	2.08%	0.36%	0.06%	0.03%	0.04%	0.00%	0.17%	0.32%
Roseburia	0.43%	0.43%	0.16%	0.29%	0.12%	0.09%	0.90%	0.19%	0.13%	0.30%
unidentified_Erysipelotrichaceae	0.00%	0.00%	0.04%	1.91%	0.10%	0.03%	0.11%	0.30%	0.02%	0.28%
Chlamydia	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.02%	2.43%	0.27%
Weissella	0.00%	0.00%	0.11%	0.08%	2.08%	0.01%	0.00%	0.02%	0.00%	0.26%
Faecalibaculum	0.01%	0.03%	0.00%	0.00%	0.00%	1.42%	0.76%	0.00%	0.00%	0.25%
Candidatus_Saccharimonas	0.29%	0.35%	0.01%	1.00%	0.02%	0.21%	0.01%	0.01%	0.19%	0.23%
Dorea	0.00%	0.00%	0.02%	0.02%	0.04%	0.02%	0.73%	1.24%	0.00%	0.23%
Paracoccus	0.00%	0.00%	0.01%	0.00%	1.82%	0.01%	0.01%	0.00%	0.01%	0.21%
Lawsonia	0.00%	0.00%	0.22%	0.00%	1.51%	0.00%	0.09%	0.00%	0.00%	0.20%
Parasutterella	0.69%	0.34%	0.00%	0.01%	0.00%	0.69%	0.00%	0.01%	0.01%	0.19%
Odoribacter	0.65%	0.09%	0.01%	0.67%	0.00%	0.05%	0.03%	0.09%	0.11%	0.19%
Lachnoclostridium	0.07%	0.05%	0.01%	0.13%	0.03%	0.02%	0.07%	1.31%	0.01%	0.19%

Anaerostipes	0.50%	0.44%	0.02%	0.01%	0.01%	0.24%	0.05%	0.37%	0.07%	0.19%
Oscillibacter	0.39%	0.83%	0.02%	0.07%	0.02%	0.04%	0.05%	0.04%	0.21%	0.19%
unidentified_Prevotellaceae	0.26%	0.34%	0.02%	0.05%	0.00%	0.03%	0.09%	0.59%	0.23%	0.18%
Eubacterium	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.02%	1.52%	0.01%	0.17%
Paeniclostridium	0.00%	0.01%	1.07%	0.05%	0.15%	0.00%	0.12%	0.05%	0.01%	0.16%
Phascolarctobacterium	0.09%	0.00%	0.11%	0.35%	0.04%	0.00%	0.31%	0.40%	0.01%	0.15%
Vagococcus	0.00%	0.00%	0.06%	0.64%	0.02%	0.00%	0.53%	0.00%	0.05%	0.15%
Turicibacter	1.22%	0.01%	0.04%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	0.14%
Quinella	0.55%	0.41%	0.00%	0.08%	0.00%	0.00%	0.01%	0.01%	0.14%	0.13%
Proteus	0.00%	0.02%	0.01%	0.51%	0.01%	0.03%	0.57%	0.00%	0.01%	0.13%
unidentified_Cyanobacteria	0.00%	0.00%	0.01%	0.01%	0.01%	0.91%	0.03%	0.06%	0.11%	0.13%
Peptoniphilus	0.00%	0.00%	0.00%	0.00%	1.12%	0.00%	0.00%	0.00%	0.00%	0.13%
Anaerobiospirillum	0.39%	0.16%	0.01%	0.01%	0.00%	0.00%	0.00%	0.01%	0.50%	0.12%
Mucispirillum	0.33%	0.28%	0.00%	0.01%	0.00%	0.09%	0.01%	0.18%	0.17%	0.12%
Terrisporobacter	0.00%	0.00%	0.06%	0.06%	0.81%	0.00%	0.05%	0.01%	0.01%	0.11%
Klebsiella	0.00%	0.00%	0.34%	0.02%	0.54%	0.03%	0.00%	0.01%	0.01%	0.11%
Ruminiclostridium	0.28%	0.29%	0.00%	0.03%	0.01%	0.06%	0.03%	0.03%	0.21%	0.10%

Collinsella	0.00%	0.00%	0.08%	0.10%	0.15%	0.00%	0.23%	0.36%	0.00%	0.10%
Tyzzarella	0.08%	0.02%	0.01%	0.03%	0.03%	0.01%	0.02%	0.61%	0.03%	0.09%
Butyricimonas	0.03%	0.01%	0.01%	0.08%	0.00%	0.01%	0.02%	0.62%	0.01%	0.09%
Sphingomonas	0.00%	0.00%	0.00%	0.00%	0.05%	0.25%	0.00%	0.01%	0.47%	0.09%
Peptostreptococcus	0.00%	0.00%	0.02%	0.04%	0.61%	0.00%	0.03%	0.00%	0.06%	0.09%
Anaerovibrio	0.05%	0.42%	0.02%	0.04%	0.01%	0.00%	0.04%	0.12%	0.04%	0.08%
Barnesiella	0.06%	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.61%	0.00%	0.08%
Dietzia	0.00%	0.00%	0.02%	0.01%	0.35%	0.00%	0.03%	0.00%	0.30%	0.08%
Akkermansia	0.33%	0.28%	0.00%	0.02%	0.05%	0.02%	0.00%	0.00%	0.00%	0.08%
Globicatella	0.10%	0.00%	0.04%	0.50%	0.02%	0.00%	0.03%	0.00%	0.01%	0.08%
Brevibacterium	0.00%	0.00%	0.17%	0.11%	0.38%	0.00%	0.01%	0.00%	0.03%	0.08%
Veillonella	0.01%	0.02%	0.17%	0.04%	0.32%	0.04%	0.03%	0.01%	0.01%	0.07%
Jeotgalicoccus	0.00%	0.00%	0.12%	0.02%	0.02%	0.00%	0.00%	0.00%	0.44%	0.07%
Actinomyces	0.00%	0.00%	0.02%	0.19%	0.17%	0.05%	0.11%	0.01%	0.04%	0.07%
Glutamicibacter	0.01%	0.00%	0.14%	0.04%	0.12%	0.02%	0.03%	0.00%	0.23%	0.06%
Dielma	0.01%	0.00%	0.02%	0.01%	0.03%	0.00%	0.01%	0.49%	0.00%	0.06%
Butyrivibrio	0.22%	0.01%	0.00%	0.03%	0.00%	0.25%	0.00%	0.04%	0.00%	0.06%

Kosakonia	0.01%	0.04%	0.02%	0.02%	0.11%	0.29%	0.03%	0.02%	0.02%	0.06%
Butyricoccus	0.02%	0.06%	0.05%	0.05%	0.01%	0.01%	0.15%	0.13%	0.06%	0.06%
Fournierella	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.54%	0.00%	0.06%
Methanobrevibacter	0.00%	0.00%	0.00%	0.00%	0.00%	0.51%	0.01%	0.04%	0.00%	0.06%
Leucobacter	0.00%	0.00%	0.03%	0.01%	0.09%	0.00%	0.01%	0.00%	0.41%	0.06%
Ureaplasma	0.01%	0.05%	0.39%	0.00%	0.00%	0.00%	0.00%	0.00%	0.10%	0.06%
Enterorhabdus	0.04%	0.02%	0.00%	0.04%	0.00%	0.16%	0.16%	0.05%	0.02%	0.06%
Aureimonas	0.00%	0.00%	0.00%	0.00%	0.49%	0.00%	0.00%	0.00%	0.00%	0.06%
Anaeroplasma	0.35%	0.01%	0.00%	0.01%	0.00%	0.06%	0.00%	0.01%	0.02%	0.05%
Peptococcus	0.01%	0.00%	0.05%	0.01%	0.01%	0.00%	0.33%	0.01%	0.00%	0.05%
Macrococcus	0.00%	0.00%	0.02%	0.02%	0.35%	0.00%	0.00%	0.00%	0.00%	0.04%
unidentified_Bacteria	0.00%	0.00%	0.03%	0.01%	0.32%	0.01%	0.00%	0.00%	0.01%	0.04%
Acinetobacter	0.01%	0.01%	0.02%	0.13%	0.14%	0.04%	0.00%	0.02%	0.03%	0.04%
Candidatus_Stoquefichus	0.00%	0.00%	0.01%	0.08%	0.22%	0.00%	0.03%	0.00%	0.00%	0.04%
Parvimonas	0.00%	0.00%	0.03%	0.28%	0.02%	0.00%	0.00%	0.00%	0.01%	0.04%
Flavonifractor	0.01%	0.01%	0.01%	0.02%	0.01%	0.00%	0.01%	0.27%	0.01%	0.04%
Solobacterium	0.00%	0.00%	0.03%	0.00%	0.01%	0.00%	0.28%	0.00%	0.00%	0.04%

Megasphaera	0.00%	0.00%	0.01%	0.00%	0.30%	0.00%	0.00%	0.00%	0.00%	0.04%
Elusimicrobium	0.14%	0.12%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.01%	0.03%
Bilophila	0.09%	0.01%	0.00%	0.03%	0.00%	0.00%	0.08%	0.05%	0.02%	0.03%
Oribacterium	0.00%	0.00%	0.05%	0.03%	0.02%	0.00%	0.03%	0.13%	0.00%	0.03%
Kurthia	0.00%	0.00%	0.14%	0.01%	0.05%	0.00%	0.00%	0.00%	0.06%	0.03%
Bacillus	0.00%	0.00%	0.01%	0.13%	0.10%	0.02%	0.00%	0.01%	0.00%	0.03%
Negativibacillus	0.00%	0.00%	0.00%	0.06%	0.03%	0.00%	0.16%	0.00%	0.00%	0.03%
unidentified_Christensenellaceae	0.00%	0.00%	0.00%	0.00%	0.05%	0.00%	0.06%	0.13%	0.00%	0.03%
Kocuria	0.00%	0.00%	0.01%	0.01%	0.05%	0.01%	0.01%	0.00%	0.16%	0.03%
Microbacterium	0.00%	0.00%	0.02%	0.03%	0.12%	0.01%	0.02%	0.00%	0.05%	0.03%
Calidifontibacter	0.00%	0.00%	0.00%	0.00%	0.23%	0.00%	0.00%	0.00%	0.00%	0.03%
Brachybacterium	0.00%	0.00%	0.07%	0.02%	0.12%	0.00%	0.00%	0.00%	0.03%	0.03%
Moraxella	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.21%	0.02%
Pygmaibacter	0.06%	0.08%	0.00%	0.01%	0.00%	0.01%	0.01%	0.01%	0.04%	0.02%
Caproiciproducens	0.07%	0.06%	0.00%	0.01%	0.00%	0.03%	0.01%	0.01%	0.02%	0.02%
unidentified_Spirochaetaceae	0.00%	0.00%	0.08%	0.00%	0.00%	0.00%	0.00%	0.11%	0.00%	0.02%
Anaerofilum	0.00%	0.01%	0.01%	0.01%	0.00%	0.00%	0.02%	0.14%	0.00%	0.02%

Harryflintia	0.03%	0.03%	0.00%	0.01%	0.00%	0.00%	0.02%	0.00%	0.02%	0.01%
Plesiomonas	0.00%	0.00%	0.00%	0.00%	0.09%	0.00%	0.03%	0.00%	0.00%	0.01%
unidentified_Muribaculaceae	0.04%	0.02%	0.00%	0.01%	0.00%	0.03%	0.00%	0.01%	0.00%	0.01%
Candidatus_Soleaferrea	0.02%	0.01%	0.00%	0.01%	0.01%	0.00%	0.02%	0.04%	0.00%	0.01%
Bosea	0.00%	0.00%	0.00%	0.00%	0.10%	0.00%	0.00%	0.00%	0.00%	0.01%
Bradyrhizobium	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.00%	0.00%	0.09%	0.01%
Limnohabitans	0.00%	0.00%	0.00%	0.00%	0.00%	0.11%	0.00%	0.00%	0.00%	0.01%
Candidatus_Arthromitus	0.03%	0.00%	0.00%	0.00%	0.00%	0.05%	0.00%	0.01%	0.01%	0.01%
Asteroleplasma	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.10%	0.00%	0.01%
Paenochrobactrum	0.00%	0.00%	0.00%	0.00%	0.09%	0.00%	0.00%	0.00%	0.02%	0.01%
Cellulosilyticum	0.01%	0.02%	0.00%	0.00%	0.00%	0.07%	0.00%	0.00%	0.00%	0.01%
Eisenbergiella	0.02%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.06%	0.00%	0.01%
Ignatzschineria	0.00%	0.00%	0.00%	0.00%	0.04%	0.03%	0.00%	0.00%	0.03%	0.01%
Comamonas	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.10%	0.01%
Devosia	0.00%	0.00%	0.00%	0.01%	0.06%	0.02%	0.00%	0.00%	0.01%	0.01%
Timonella	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.09%	0.01%
Oxalobacter	0.02%	0.03%	0.01%	0.02%	0.00%	0.00%	0.01%	0.01%	0.00%	0.01%

Actinobacillus	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.08%	0.01%
Anaerovorax	0.04%	0.02%	0.00%	0.00%	0.00%	0.01%	0.01%	0.01%	0.00%	0.01%
Leuconostoc	0.00%	0.00%	0.00%	0.01%	0.00%	0.07%	0.00%	0.00%	0.00%	0.01%
Angelakisella	0.05%	0.02%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%
Haematobacter	0.00%	0.00%	0.00%	0.00%	0.09%	0.00%	0.00%	0.00%	0.00%	0.01%
Pseudoflavonifractor	0.00%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.06%	0.00%	0.01%
Papillibacter	0.03%	0.02%	0.00%	0.00%	0.01%	0.00%	0.02%	0.00%	0.01%	0.01%
Lysobacter	0.00%	0.00%	0.00%	0.00%	0.00%	0.08%	0.00%	0.00%	0.01%	0.01%
Pseudobutyrvibrio	0.00%	0.00%	0.00%	0.02%	0.00%	0.02%	0.01%	0.00%	0.02%	0.01%
Pantoea	0.00%	0.00%	0.01%	0.00%	0.05%	0.01%	0.00%	0.00%	0.01%	0.01%
Jeotgalibaca	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.01%	0.00%	0.04%	0.01%
Rikenella	0.06%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%
Lysinibacillus	0.00%	0.00%	0.03%	0.00%	0.03%	0.00%	0.00%	0.00%	0.01%	0.01%
Ralstonia	0.00%	0.00%	0.00%	0.00%	0.00%	0.07%	0.01%	0.00%	0.00%	0.01%
Methylophilus	0.00%	0.00%	0.00%	0.00%	0.00%	0.08%	0.00%	0.00%	0.00%	0.01%
Marvinbryantia	0.00%	0.00%	0.00%	0.02%	0.03%	0.00%	0.02%	0.00%	0.00%	0.01%
Halomonas	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.06%	0.01%

Sanguibacter	0.00%	0.00%	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.03%	0.01%
Noviherbaspirillum	0.00%	0.00%	0.00%	0.00%	0.00%	0.08%	0.00%	0.00%	0.00%	0.01%
Flavobacterium	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.07%	0.01%
Empedobacter	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.07%	0.01%
Shinella	0.00%	0.00%	0.00%	0.00%	0.06%	0.00%	0.00%	0.00%	0.00%	0.01%
Aeriscardovia	0.00%	0.00%	0.00%	0.00%	0.06%	0.00%	0.00%	0.00%	0.00%	0.01%
Mycobacterium	0.00%	0.00%	0.00%	0.00%	0.03%	0.03%	0.00%	0.00%	0.00%	0.01%
Rhodococcus	0.00%	0.00%	0.00%	0.00%	0.06%	0.00%	0.00%	0.00%	0.01%	0.01%
Dongia	0.00%	0.00%	0.00%	0.00%	0.00%	0.06%	0.00%	0.00%	0.00%	0.01%
Anoxybacillus	0.00%	0.00%	0.00%	0.00%	0.00%	0.05%	0.01%	0.00%	0.00%	0.01%
Myroides	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.06%	0.01%
unidentified_Acidobacteria	0.00%	0.00%	0.00%	0.00%	0.00%	0.06%	0.00%	0.00%	0.00%	0.01%
Ilumatobacter	0.00%	0.00%	0.00%	0.00%	0.06%	0.00%	0.00%	0.00%	0.00%	0.01%
Succinivibrio	0.00%	0.00%	0.02%	0.01%	0.00%	0.00%	0.01%	0.02%	0.00%	0.01%
Microvirga	0.00%	0.00%	0.00%	0.00%	0.04%	0.01%	0.00%	0.00%	0.00%	0.01%
Oscillospira	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	0.04%	0.00%	0.01%
Sellimonas	0.00%	0.00%	0.00%	0.01%	0.01%	0.00%	0.04%	0.00%	0.00%	0.01%

Sutterella	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.04%	0.00%	0.01%
Blastococcus	0.00%	0.00%	0.00%	0.00%	0.01%	0.04%	0.00%	0.00%	0.00%	0.00%	0.01%
Dialister	0.01%	0.00%	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.00%	0.00%	0.01%
Iamia	0.00%	0.00%	0.00%	0.00%	0.04%	0.01%	0.00%	0.00%	0.00%	0.00%	0.01%
Gordonia	0.00%	0.00%	0.00%	0.00%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%
Flaviflexus	0.00%	0.00%	0.00%	0.00%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%
Haliangium	0.00%	0.00%	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.00%	0.01%	0.01%
Terrimonas	0.00%	0.00%	0.00%	0.00%	0.00%	0.05%	0.00%	0.00%	0.00%	0.00%	0.01%
Morganella	0.00%	0.01%	0.01%	0.01%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.01%
Catenisphaera	0.00%	0.00%	0.00%	0.04%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%
Pseudomonas	0.00%	0.00%	0.00%	0.01%	0.01%	0.02%	0.00%	0.00%	0.00%	0.01%	0.01%
Proteiniclasticum	0.00%	0.00%	0.00%	0.00%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%
Flexivirga	0.00%	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%
Sphingobacterium	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.04%	0.01%
Hathewayia	0.00%	0.00%	0.01%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%
Fructobacillus	0.00%	0.00%	0.00%	0.03%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.01%
Adlercreutzia	0.01%	0.01%	0.00%	0.01%	0.01%	0.01%	0.00%	0.00%	0.00%	0.01%	0.01%

Acidibacter	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%
Aquamicrobium	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%
Johnsonella	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Neoscardovia	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%
Bartonella	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%
Herbaspirillum	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%
Sporosarcina	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sphaerochaeta	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%
Parvibacter	0.01%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Perlucidibaca	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%
Aeromicrobium	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%
Oligella	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%
Dysgonomonas	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%
Ohtaekwangia	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%
Neisseria	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.01%	0.00%
Shewanella	0.00%	0.00%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Brevundimonas	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%

Gemmatimonas	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%
Rickettsiella	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Amaricoccus	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Rubellimicrobium	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bryobacter	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Tessaracoccus	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Granulicatella	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Atopostipes	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Catabacter	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%
Porphyromonas	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%
Prevotella	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.01%	0.00%	0.00%
Bergeyella	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%
Novosphingobium	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Luteimonas	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Catenibacterium	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
unidentified_Melainabacteria	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Niastella	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%

Neochlamydia	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Shuttleworthia	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%
Micropruina	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Pseudarcicella	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Polynucleobacter	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Kribbella	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Gallicola	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%
Ruminobacter	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Wohlfahrtiimonas	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%
Candidatus_Nitrososphaera	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Tissierella	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Nordella	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Alcaligenes	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%
Sporobacter	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Reyranella	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Enteractinococcus	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
unidentified_Chloroflexi	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%

unidentified_Rhodanobacteraceae	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Altererythrobacter	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Sporacetigenium	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Nitrosospira	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Nocardiopsis	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%
Acetobacter	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Rhodoplanes	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Anaerococcus	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Limnobacter	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Emticicia	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Ferruginibacter	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Solirubrobacter	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Pelagibacterium	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%
Caenimonas	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Faecalicoccus	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%
Pedobacter	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%
Starkeya	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%

Supplementary Table 8 Bray_curtis distances between microbial communities of rats nine sites

bray_curtis_Beta_diversity	YGL	HJL	DZ	DF	HK	JFL	BS	SY	LG
YGL	0	0.5080770	0.8361588	0.7494167	0.8421130	0.7289051	0.7781147	0.8426809	0.7008977
		63	76	75	46	72	7	34	66
HJL	0.5080770	0	0.8635354	0.8420296	0.8769193	0.6574394	0.8637934	0.9077064	0.777119
	63		71	72	74	08	59	41	
DZ	0.8361588	0.8635354	0	0.6180443	0.6086671	0.7888794	0.6306102	0.8498747	0.6245050
	76	71		58	31	68	51	03	65
DF	0.7494167	0.8420296	0.6180443	0	0.7263819	0.8331243	0.5748093	0.7804649	0.6707352
	75	72	58		26	74	8	76	18
HK	0.8421130	0.8769193	0.6086671	0.7263819	0	0.8085777	0.7224051	0.8755822	0.7071366
	46	74	31	26		79	38	42	66
JFL	0.7289051	0.6574394	0.7888794	0.8331243	0.8085777	0	0.8087728	0.8660948	0.7891673
	72	08	68	74	79		43	99	44
BS	0.7781147	0.8637934	0.6306102	0.5748093	0.7224051	0.8087728	0	0.7747514	0.6467580
	7	59	51	8	38	43		9	85

SY	0.8426809	0.9077064	0.8498747	0.7804649	0.8755822	0.8660948	0.7747514	0	0.8877721
	34	41	03	76	42	99	9		65
LG	0.7008977		0.6245050	0.6707352	0.7071366	0.7891673	0.6467580	0.8877721	0
	66	0.777119	65	18	66	44	85	65	

Supplementary Table 9 Weighted unifracs Beta diversity between microbial communities of rats from nine sites

Weighted_unifrac_Beta_diversity	YGL	HJL	DZ	DF	HK	JFL	BS	SY	LG
YGL	0	0.155154 164	0.464913 001	0.336080 25	0.444761 45	0.371682 381	0.374147 454	0.267073 733	0.357566 131
HJL	0.155154 164	0	0.471990 269	0.344971 759	0.442750 439	0.317877 346	0.390065 11	0.320337 81	0.350179 765
DZ	0.464913 001	0.471990 269	0	0.350101 485	0.229374 836	0.406655 412	0.272221 135	0.507590 291	0.296687 623
DF	0.336080 25	0.344971 759	0.350101 485	0	0.374637 315	0.326433 145	0.252298 834	0.356829 75	0.313800 886
HK	0.444761 45	0.442750 439	0.229374 836	0.374637 315	0	0.418581 78	0.329606 112	0.505974 665	0.308421 302
JFL	0.371682 381	0.317877 346	0.406655 412	0.326433 145	0.418581 78	0	0.364461 938	0.446548 713	0.320095 251
BS	0.374147 454	0.390065 11	0.272221 135	0.252298 834	0.329606 112	0.364461 938	0	0.378908 952	0.297189 375

SY	0.267073	0.320337	0.507590	0.356829	0.505974	0.446548	0.378908	0	0.460046
	733	81	291	75	665	713	952		486
LG	0.357566	0.350179	0.296687	0.313800	0.308421	0.320095	0.297189	0.460046	0
	131	765	623	886	302	251	375	486	
