

# *Tenebrio Molitor* Larvae Meal Affects the Cecal Microbiota of Growing Pigs

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Table S1. Characteristics of gene-specific primers used for qPCR analysis in small intestinal mucosa.

Gene	Forward (5' to 3') Reverse (5' to 3')	Annealing Temperature (°C)	PCR Product Size (bp)	NCBI GeneBank Accession No.	Slope	R <sup>2</sup>	E
<i>Reference genes</i>							
<i>ATP5MC1</i>	CAGTCACCTTGAGCCGGGCGA TAGCGCCCCGGTGGTTTGC	64	94	NM_001025218	-3.55	0.999	1.91
<i>GAPDH</i>	AGGGGCTCTCCAGAACATCATCC TCGCGTGCTCTTGCTGGGGTTGG	60	446	NM_001206359	-3.33	1.000	2.00
<i>RPS9</i>	GTCGCAAGACTTATGTGACC AGCTTAAAGACCTGGGTCTG	62	325	XM_021094878	-3.28	0.999	2.02
<i>SDHA</i>	CTACGCCCCGTCGCAAAGG AGTTTGCCCCCAGGCGGTTG	64	380	XM_021076930	-3.32	1.000	2.00
<i>Target genes</i>							
<i>CLDN1</i>	GATCGGCTCCATCGTCAGCA CGACACGCAGGACATCCACA	60	115	NM_001244539	-3.54	0.994	1.92
<i>CXCL8</i>	ACTTCCAAACTGGCTGTTGC GGAATGCGTATTTATGCACTGG	59	120	NM_213867	-3.59	0.994	1.90
<i>IL1B</i>	GTTCTCTGAGAAATGGGAGC CTGGTCATCATCACAGAAGG	58	143	NM_214055	-3.51	0.997	1.93
<i>IL6</i>	AAGGTGATGCCACCTCAGAC TCTGCCAGTACCTCCTTGCT	60	151	NM_001252429	-3.54	0.994	1.92
<i>MUC1</i>	CGGGCTTCTGGGACTCTTTT	58	312	XM_021089728	-3.63	0.999	1.89

	TTCTTTCGTCGGCACTGACA						
<i>MUC13</i>	TGTGTTTTGCTTTGGGTCCAG CACAGCCAACCTCCACTGTAGC	58	171	NM_001105293	-3.58	1.000	1.90
<i>MUC2</i>	CTTCCAACCATCCTCCCACC GCCGCTTGAAATCATCGCC	58	174	XM_021082584	-3.53	0.996	1.92
<i>OCN</i>	GCCTACTCGTCCAACGGGAA GCCCGTCGTGTAGTCTGTCT	60	246	NM_001163647	-3.60	0.999	1.90
<i>SLC15A1</i>	CAGACTTCGACCACAACGGA TTATCCCGCCAGTACCCAGA	58	99	NM_214347	-3.52	0.998	1.93
<i>SLC2A2</i>	CGCAACCATTTGGAGTTGGCGC TGGCACAAACAAACATCCCCTCA	63	122	NM_001097417	-3.37	0.997	1.98
<i>SLC2A5</i>	CTGACACTGGTGCTTTGCTTT TTCGCTCATGTATCCCCGA	57	156	XM_021095282	-3.45	0.989	1.95
<i>SLC5A1</i>	GTGGCGGACAGTAGTGAACA AGAAGGCAGGATTTTCAGGCA	57	89	NM_001164021	-3.31	1.000	1.92
<i>TJP1</i>	GTCGTCCTGATCCTGACCCG TGGTGGGTTTGGTGGGTTGA	60	207	XM_021098827	-3.26	0.996	2.03
<i>TNF</i>	CCAAGGACTCAGATCATCGT GCTGGTTGTCTTTCAGCTTC	58	146	NM_214022	-3.36	1.000	1.99

**Table S2.** Operational taxonomic units (OUT) identified in cecum digesta of all experimental groups.

OTU	Phylum	Class	Order	Family	Genus
OTU_1	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_2	Firmicutes	Clostridia	Clostridiales	Clostridiaceae 1	Clostridium sensu stricto
OTU_3	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus
OTU_4	Proteobacteria	Gammaproteobacteria	Orbales	Orbaceae	Frischella
OTU_5	Firmicutes	Negativicutes	Selenomonadales	Veillonellaceae	Anaerovibrio
OTU_6	Firmicutes	Negativicutes	Selenomonadales	Veillonellaceae	Anaerovibrio

OTU_7	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_8	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Roseburia
OTU_9	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_10	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Alloprevotella
OTU_11	Firmicutes	Negativicutes	Selenomonadales	Acidaminococcaceae	Phascolarctobacterium
OTU_12	Proteobacteria	Gammaproteobacteria	Aeromonadales	Succinivibrionaceae	Succinivibrio
OTU_13	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium
OTU_14	Firmicutes	Negativicutes	Selenomonadales	Veillonellaceae	Anaerovibrio
OTU_15	Firmicutes	Negativicutes	Selenomonadales	Veillonellaceae	Dialister
OTU_16	Spirochaetes	Spirochaetia	Spirochaetales	Spirochaetaceae	Treponema
OTU_17	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_18	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Gemmiger
OTU_19	Firmicutes	Clostridia	Clostridiales	Peptostreptococcaceae	Terrisporobacter
OTU_20	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_21	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Roseburia
OTU_22	Firmicutes	Negativicutes	Selenomonadales	Veillonellaceae	Megasphaera
OTU_23	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Alloprevotella
OTU_24	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_25	Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Anaerorhabdus
OTU_26	Firmicutes	Negativicutes	Selenomonadales	Veillonellaceae	Mitsuokella
OTU_27	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillibacter
OTU_28	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Lachnospiraceae_incertainae_sedis
OTU_29	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Lachnospiraceae_incertainae_sedis
OTU_30	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Gemmiger
OTU_31	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Alloprevotella
OTU_32	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Paraprevotella
OTU_33	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Paraprevotella
OTU_34	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Clostridium XIVa
OTU_35	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_37	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Gemmiger
OTU_38	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_39	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Alloprevotella
OTU_40	Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Falsiporphyromonas

OTU_41	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_42	Spirochaetes	Spirochaetia	Spirochaetales	Spirochaetaceae	Treponema
OTU_43	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_44	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_45	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium
OTU_46	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia
OTU_47	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_48	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_49	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_50	Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Macellibacteroides
OTU_51	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_52	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coprococcus
OTU_54	Proteobacteria	Gammaproteobacteria	Aeromonadales	Succinivibrionaceae	Succinivibrio
OTU_55	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Sporobacter
OTU_56	Firmicutes	Clostridia	Clostridiales	Peptostreptococcaceae	Clostridium XI
OTU_57	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_58	Proteobacteria	Deltaproteobacteria	Bdellovibrionales	Bdellovibrionaceae	Vampirovibrio
OTU_59	Spirochaetes	Spirochaetia	Spirochaetales	Spirochaetaceae	Treponema
OTU_60	Bacteroidetes	Bacteroidia	Bacteroidales	Marinilabiliaceae	Alkalitalea
OTU_61	Proteobacteria	Gammaproteobacteria	Enterobacteriales	Enterobacteriaceae	Escherichia/Shigella
OTU_62	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Clostridium IV
OTU_63	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Paraprevotella
OTU_65	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus
OTU_66	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_67	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Lachnospiraceae_incertain_sedis
OTU_68	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Alloprevotella
OTU_69	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia
OTU_70	Firmicutes	Negativicutes	Selenomonadales	Veillonellaceae	Anaerovibrio
OTU_71	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_72	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Flavonifractor
OTU_73	Firmicutes	Clostridia	Clostridiales	Eubacteriaceae	Eubacterium
OTU_74	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Alloprevotella
OTU_75	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Lachnospiraceae_incertain_sedis

OTU_76	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Lachnospiraceae_incertae_sedis
OTU_77	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_79	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Clostridium IV
OTU_80	Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Falsiporphyromonas
OTU_81	Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
OTU_82	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Butyrivibrio
OTU_83	Firmicutes	Clostridia	Clostridiales	Clostridiaceae 1	Clostridium sensu stricto
OTU_84	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Anaerobacterium
OTU_85	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Roseburia
OTU_86	Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus
OTU_88	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Clostridium XIVa
OTU_91	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Flavonifractor
OTU_92	Firmicutes	Clostridia	Clostridiales	Clostridiaceae 1	Clostridium sensu stricto
OTU_93	Firmicutes	Clostridia	Clostridiales	Christensenellaceae	Christensenella
OTU_94	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Paraprevotella
OTU_95	Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Barnesiella
OTU_97	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_99	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_100	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Lactonifactor
OTU_101	Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus
OTU_105	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_108	Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Barnesiella
OTU_110	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Sporobacter
OTU_112	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_113	Proteobacteria	Deltaproteobacteria	Bdellovibrionales	Bdellovibrionaceae	Vampirovibrio
OTU_115	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_116	Firmicutes	Clostridia	Clostridiales	Clostridiales_Incertae Sedis XII	Guggenheimella
OTU_118	Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Barnesiella
OTU_119	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Clostridium XIVa
OTU_122	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Lachnospiraceae_incertae_sedis
OTU_126	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_127	Firmicutes	Negativicutes	Selenomonadales	Veillonellaceae	Selenomonas

OTU_130	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Clostridium XIVa
OTU_131	Proteobacteria	Betaproteobacteria	Rhodocyclales	Rhodocyclaceae	Azovibrio
OTU_132	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Lachnospiraceae_incertae_sedis
OTU_134	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
OTU_142	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_145	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_147	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Clostridium XIVa
OTU_151	Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
OTU_153	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Papillibacter
OTU_154	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Clostridium IV
OTU_157	Firmicutes	Negativicutes	Selenomonadales	Veillonellaceae	Selenomonas
OTU_158	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
OTU_159	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillibacter
OTU_161	Actinobacteria	Actinobacteridae	Bifidobacteriales	Bifidobacteriaceae	Bifidobacteriaceae
OTU_163	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_166	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillibacter
OTU_172	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Clostridium XIVa
OTU_175	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Clostridium XIVa
OTU_184	Firmicutes	Negativicutes	Selenomonadales	Veillonellaceae	Mitsuokella
OTU_188	Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Macellibacteroides
OTU_193	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Roseburia
OTU_198	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Fusicatenibacter
OTU_218	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Paraprevotella
OTU_226	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Butyrivibrio
OTU_235	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Intestinimonas
OTU_240	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_247	Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
OTU_272	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillibacter
OTU_276	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Clostridium IV
OTU_282	Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Acetobacteroides
OTU_321	Firmicutes	Clostridia	Clostridiales	Clostridiales_Incertae Sedis XI	Dethiosulfatibacter
OTU_330	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coprococcus

OTU_333	Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Barnesiella
OTU_346	Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
OTU_347	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Alloprevotella
OTU_352	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Clostridium XIVa
OTU_353	Firmicutes	Bacilli	Bacillales	Bacillaceae 1	Bacillus
OTU_363	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Alloprevotella
OTU_365	Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Parabacteroides
OTU_367	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_383	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Flavonifractor
OTU_391	Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
OTU_394	Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	Alistipes
OTU_396	Firmicutes	Bacilli	Bacillales	Staphylococcaceae	Staphylococcus
OTU_417	Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
OTU_418	Bacteroidetes	Bacteroidia	Bacteroidales	Marinilabiliaceae	Anaerophaga
OTU_441	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Clostridium XIVa
OTU_446	Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	Alistipes
OTU_457	Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	Alistipes
OTU_463	Proteobacteria	Betaproteobacteria	Burkholderiales	Sutterellaceae	Sutterella
OTU_465	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Clostridium XIVa
OTU_467	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	Pseudomonas
OTU_478	Firmicutes	Clostridia	Clostridiales	Clostridiaceae 1	Clostridium sensu stricto
OTU_482	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Acetatifactor
OTU_501	Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
OTU_523	Firmicutes	Clostridia	Clostridiales	Christensenellaceae	Christensenella
OTU_544	Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Parabacteroides
OTU_561	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Clostridium XIVa
OTU_562	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Flavonifractor
OTU_573	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Alloprevotella
OTU_599	Actinobacteria	Actinobacteria	Actinobacteridae	Actinomycetales	Micrococcineae
OTU_607	Proteobacteria	Deltaproteobacteria	Bdellovibrionales	Bdellovibrionaceae	Vampirovibrio
OTU_663	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Sporobacter
OTU_669	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coprococcus
OTU_670	Firmicutes	Bacilli	Lactobacillales	Enterococcaceae	Enterococcus

OTU_673	Actinobacteria	Actinobacteria	Coriobacteriales	Coriobacteriaceae	Enterorhabdus
OTU_683	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_703	Proteobacteria	Deltaproteobacteria	Bdellovibrionales	Bdellovibrionaceae	Vampirovibrio
OTU_717	Firmicutes	Negativicutes	Selenomonadales	Veillonellaceae	Mitsuokella
OTU_728	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium
OTU_731	Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	Alistipes
OTU_738	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Ruminococcus2
OTU_740	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Hungatella
OTU_746	Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	Alistipes
OTU_751	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Clostridium IV
OTU_761	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Ruminococcus2
OTU_805	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Ruminococcus2
OTU_806	Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	Alistipes
OTU_886	Proteobacteria	Gammaproteobacteria	Aeromonadales	Succinivibrionaceae	Succinivibrio
OTU_900	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Sporobacter
OTU_933	Firmicutes	Erysipelotrichia	Erysipelotrichales	Erysipelotrichaceae	Clostridium XVIII
OTU_934	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Delftia
OTU_991	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_1002	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Anaerotruncus
OTU_1057	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Fusicatenibacter
OTU_1077	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Clostridium XIVa
OTU_1100	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Stenotrophomonas
OTU_1118	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_1140	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_1160	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_1168	Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
OTU_1182	Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
OTU_1217	Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
OTU_1246	Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Clostridium XIVa
OTU_1251	Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Butyricimonas
OTU_1252	Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Coprobacter
OTU_1253	Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Clostridium IV