

SUPPLEMENTAL MATERIALS

SUPPLEMENTAL FIG 1. Gross morphology of the intestinal tract, spleen and MLN of ampicillin-treated CBA/J mice infected with *C. jejuni* at 2, 7, and 35 dpi. Mice were inoculated PBS (untreated), a *C. jejuni* wild-type strain, a $\Delta flgL$ mutant, and the $\Delta flgL + flgL$ isolate by oral gavage. The colons of animals infected with the *C. jejuni* wild-type strain or the $\Delta flgL + flgL$ complemented isolate showed signs of edema and apparent stool softening compared to uninfected mice or mice given the $\Delta flgL$ mutant. MLN = mesenteric lymph nodes.

SUPPLEMENTAL FIG 2. Histopathology of the ileocecolic junction of ampicillin-treated CBA/J mice infected with *C. jejuni* at 7 dpi. Microscopy images are shown of longitudinal ileocecolic junction sections of CBA/J mice inoculated by oral gavage with *C. jejuni* wild-type strain or PBS (uninfected) at 7 dpi. Scale bar = 50 μm ; GC = Globular Cell; L = Lymphocyte (mucosal); EC = Epithelial Cell.

SUPPLEMENTAL TABLE 1. Murine intestinal isolates recovered from CBA/J mice treated with ampicillin.

SUPPLEMENTAL TABLE 2. Alignment of the 16S rRNA gene fragment from *E. faecalis* MEK1 (KLC3001) to the 16S rRNA gene from *E. faecalis* ATCC 29212.

SUPPLEMENTAL TABLE 3. Multilocus sequence typing (MLST) of *Enterococcus faecalis* KLC3001.

SUPPLEMENTAL TABLE 4. Complete taxon identification of intestinal samples with and without ampicillin treatment.

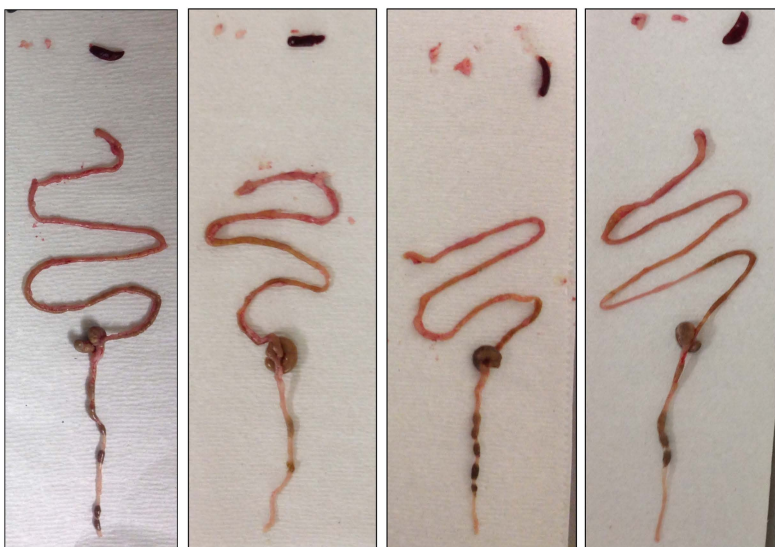
SUPPLEMENTAL TABLE 5. Intestinal taxa (OTUs) common to all animals within a treatment group.

Untreated Wild-type $\Delta flgL$ $\Delta flgL + flgL$

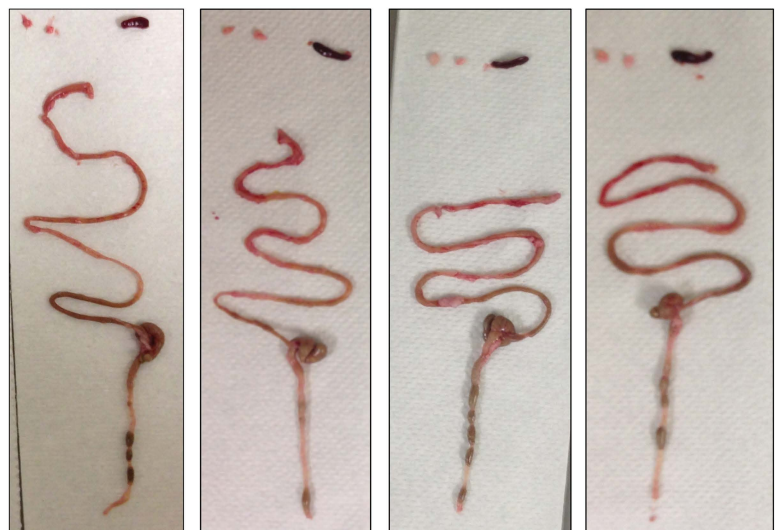
2 dpi



7 dpi



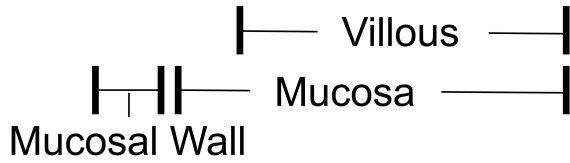
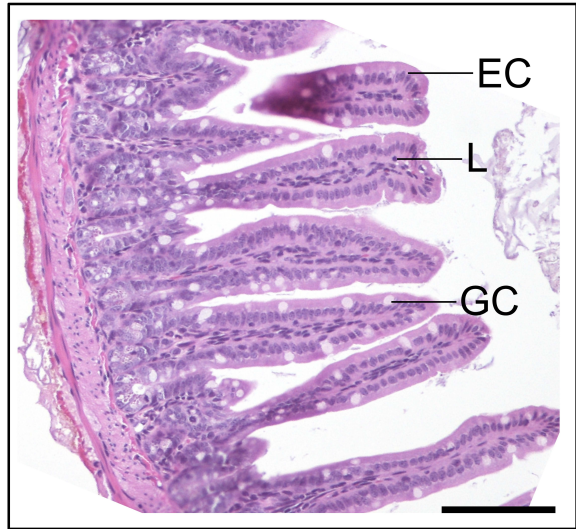
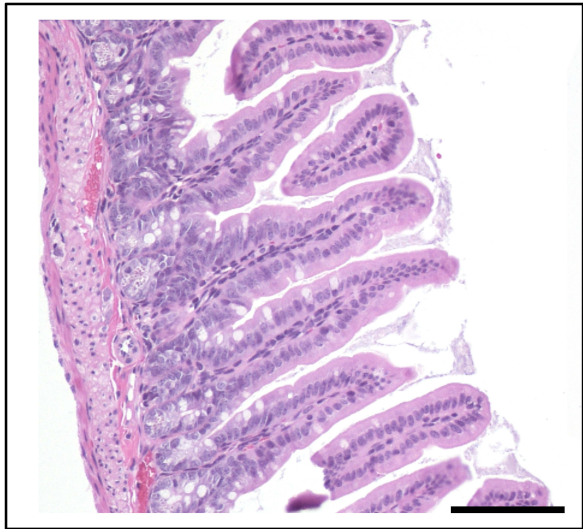
35 dpi



Uninfected

Wild-type

7 dpi



Supplemental Table 1. Murine intestinal isolates recovered from CBA/J mice treated with ampicillin.*

Intestinal Isolate	Plate Type	Inhibition
MEK1	MHB	Yes
MEK2	MHB	Yes
MEK3	MRS	Yes
MEK4	MHB	Yes
MEK5	LB	Yes
MEK6	MRS	No
MEK7	LB	No
MEK8	LB	No
MEK9	MHB	No
MEK10	MHB	No
MEK11	LB	No
MEK12	MHB	No
MEK13	MHB	No

*Isolates recovered from 5 mice ($n = 5$)

Supplemental Table 2. Alignment of the 16S rRNA gene fragment from *E. faecalis* MEK1 (KLC3001) to the 16S rRNA gene from *E. faecalis* ATCC 29212.*

MEK1	1	CTGGCGGCGTGCCTAATACATGCAAGTCGAACGCTTCTTTCCCTCCCGAGTGCTTGCACTC	60
ATCC 29212	108195	CTGGCGGCGTGCCTAATACATGCAAGTCGAACGCTTCTTTCCCTCCCGAGTGCTTGCACTC	108254
MEK1	61	AATTGGAAGAGGAGTGGCGGACGGGTGAGTAACACGTGGGTAACTACCCATCAGAGGG	120
ATCC 29212	108255	AATTGGAAGAGGAGTGGCGGACGGGTGAGTAACACGTGGGTAACTACCCATCAGAGGG	108314
MEK1	121	GGATAACACTTGGAACAGGTGCTAATACCGCATAACAGTTTATGCCGCATGGCATAAGA	180
ATCC 29212	108315	GGATAACACTTGGAACAGGTGCTAATACCGCATAACAGTTTATGCCGCATGGCATAAGA	108374
MEK1	181	GTGAAAGGCGCTTTCGGGTGTCGCTGATGGATGGACCCGCGGTGCATTAGCTAGTTGGTG	240
ATCC 29212	108375	GTGAAAGGCGCTTTCGGGTGTCGCTGATGGATGGACCCGCGGTGCATTAGCTAGTTGGTG	108434
MEK1	241	AGGTAACGGCTCACCAAGGCCACGATGCATAGCCGACCTGAGAGGGTGATCGGCCACACT	300
ATCC 29212	108435	AGGTAACGGCTCACCAAGGCCACGATGCATAGCCGACCTGAGAGGGTGATCGGCCACACT	108494
MEK1	301	GGGACTGAGACACGGCCAGACTCCTACGGGAGGCAGCAGTAGGGAATCTTCGGCAATGG	360
ATCC 29212	108495	GGGACTGAGACACGGCCAGACTCCTACGGGAGGCAGCAGTAGGGAATCTTCGGCAATGG	108554
MEK1	361	ACGAAAGTCTGACCGAGCAACGCCGCTGAGTGAAGAAGGTTTTCGGATCGTAAAACCT	420
ATCC 29212	108555	ACGAAAGTCTGACCGAGCAACGCCGCTGAGTGAAGAAGGTTTTCGGATCGTAAAACCT	108614
MEK1	421	GTGTGTAGAGAAGAACAAGGACGTTAGTAACTGAACGTCCCTGACGGTATCTAACCAGA	480
ATCC 29212	108615	GTGTGTAGAGAAGAACAAGGACGTTAGTAACTGAACGTCCCTGACGGTATCTAACCAGA	108674
MEK1	481	AAGCCACGGCTAACTACGAGCCAGCAGCCGCGTAATACGTAGGTGGCAAGCGTTATCCG	540
ATCC 29212	108675	AAGCCACGGCTAACTACGAGCCAGCAGCCGCGTAATACGTAGGTGGCAAGCGTTATCCG	108734
MEK1	541	GAATTATGGGCGTAAAGCGAGCGCAGCGGTTTCTTAAGTCTGATGTGAAAGCCCCGG	600
ATCC 29212	108735	GAATTATGGGCGTAAAGCGAGCGCAGCGGTTTCTTAAGTCTGATGTGAAAGCCCCGG	108794
MEK1	601	CTCAACCGGGAGGGTCAATTGGAACCTGGGAGACTTGAGTGCAGAAGAGGAGAGTGGAAAT	660
ATCC 29212	108795	CTCAACCGGGAGGGTCAATTGGAACCTGGGAGACTTGAGTGCAGAAGAGGAGAGTGGAAAT	108854
MEK1	661	TCCATGTGTAGCGGTGAAATGCGTAGATATATGGAGGAACACCAGTGGCGAAGGCGGCTC	720
ATCC 29212	108855	TCCATGTGTAGCGGTGAAATGCGTAGATATATGGAGGAACACCAGTGGCGAAGGCGGCTC	108914
MEK1	721	TCTGGTCTGTAACCTGACGCTGAGGCTCGAAAGCGTGGGGAGCAAACAGGATTAGATACCC	780
ATCC 29212	108915	TCTGGTCTGTAACCTGACGCTGAGGCTCGAAAGCGTGGGGAGCAAACAGGATTAGATACCC	108974
MEK1	781	TGGTAGTCCACGCCGTAACGATGAGTGCTAAGTGTGGAGGGTTTCCGCCCTTCAGTGC	840
ATCC 29212	108975	TGGTAGTCCACGCCGTAACGATGAGTGCTAAGTGTGGAGGGTTTCCGCCCTTCAGTGC	109034
MEK1	841	TGCAGCAAACGCATTAAGCACTCCGCCGTTGGGAGTACGACCGAAGGTTGAAACTCAAAG	900
ATCC 29212	109035	TGCAGCAAACGCATTAAGCACTCCGCCGTTGGGAGTACGACCGAAGGTTGAAACTCAAAG	109094
MEK1	901	GAATTGACGGGGCCCGCACAAGCGGTGGAGCATGTGTTTGTATTCGAAGCAACGCGAAG	960
ATCC 29212	109095	GAATTGACGGGGCCCGCACAAGCGGTGGAGCATGTGTTTGTATTCGAAGCAACGCGAAG	109154
MEK1	961	AACCTTACCAGGTCTTGACATCCTTTGACCACCTAGAGATAGAGCTTTCCTTCGGGGA	1020
ATCC 29212	109155	AACCTTACCAGGTCTTGACATCCTTTGACCACCTAGAGATAGAGCTTTCCTTCGGGGA	109214

Supplemental Table 3. Multilocus sequence typing (MLST) of *Enterococcus faecalis* KLC3001.

Name	Primer Sequence	Sequence Type: 55
gdh-1	5'-GGCGCACTAAAAGATATGGT-3'	3
gdh-2	5'-CCAAGATTGGGCAACTTCGTCCCA-3'	
gyd-1	5'-CAAAGTCTTAGCTCCAATGGC-3'	7
gyd-2	5'-CATTTTCGTTGTCATACCAAGC-3'	
pstS-1	5'-CGGAACAGGACTTTTCGC-3'	23
pstS-2	5'-ATTTACATCACGTTCTACTTGC-3'	
gki-1	5'-GATTTTGTGGGAATTGGTATGG-3'	1
gki-2	5'-ACCATTAAAGCAAAATGATCGC-3'	
aroE-1	5'-TGGAAAACCTTACGGAGACAGC-3'	9
aroE-2	5'-GTCCTGTCCATTGTTCAAAGC-3'	
xpt-1	5'-AAAATGATGGCCGTGTATTAGG-3'	16
xpt-2	5'-AACGTCACCGTTCCTTCACTTA-3'	
yqiL-1	5'-CAGCTTAAGTCAAGTAAGTGCCG-3'	7
yqiL-2	5'-GAATATCCCTTCTGCTTGTGCT-3'	

Supplemental Table 4. Complete taxon identification of intestinal samples with and without ampicillin treatment

Taxon	+Amp	-Amp
Bacteria;Actinobacteria;Actinobacteria;Coriobacteriales;Coriobacteriaceae;Asaccharobacter	0.00%	0.00%
Bacteria;Bacteroidetes;Bacteroidia;Bacteroidales;Bacteroidaceae;Bacteroides	0.00%	0.00%
Bacteria;Bacteroidetes;Bacteroidia;Bacteroidales;Porphyromonadaceae;Barnesiella	71.90%	52.79%
Bacteria;Bacteroidetes;Bacteroidia;Bacteroidales;Porphyromonadaceae;Tannerella	0.00%	0.00%
Bacteria;Bacteroidetes;Bacteroidia;Bacteroidales;Prevotellaceae;Prevotella	0.00%	0.00%
Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Elizabethkingia	0.00%	0.00%
Bacteria;Bacteroidetes;Flavobacteria;Flavobacteriales;Flavobacteriaceae;Flavobacterium	0.23%	0.00%
Bacteria;Bacteroidetes;Sphingobacteria;Sphingobacteriales;Sphingobacteriaceae;Pedobacter	0.00%	0.00%
Bacteria;Cyanobacteria_Chloroplast;Chloroplast;Chloroplast_order_incertae_sedis;Chloroplast;Streptophyta	1.93%	0.01%
Bacteria;Firmicutes;Bacilli;Bacillales;Staphylococcaceae;Staphylococcus	0.01%	0.00%
Bacteria;Firmicutes;Bacilli;Lactobacillales;Enterococcaceae;Enterococcus	12.46%	0.04%
Bacteria;Firmicutes;Bacilli;Lactobacillales;Enterococcaceae;Melissococcus	0.00%	0.00%
Bacteria;Firmicutes;Bacilli;Lactobacillales;Lactobacillaceae;Lactobacillus	5.40%	0.78%
Bacteria;Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Lactococcus	0.00%	0.00%
Bacteria;Firmicutes;Bacilli;Lactobacillales;Streptococcaceae;Streptococcus	0.04%	0.00%
Bacteria;Firmicutes;Clostridia;Clostridiales;Clostridiaceae_1;Clostridium_sensu_stricto	0.00%	0.00%
Bacteria;Firmicutes;Clostridia;Clostridiales;Clostridiales_Incertae_Sedis_XII;Acidaminobacter	0.16%	0.00%
Bacteria;Firmicutes;Clostridia;Clostridiales;Eubacteriaceae;Eubacterium	0.03%	0.29%
Bacteria;Firmicutes;Clostridia;Clostridiales;Gracilibacteraceae;Gracilibacter	0.39%	0.51%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Acetitomaculum	0.00%	0.07%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Anaerostipes	0.04%	0.15%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Blautia	0.00%	0.54%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Butyrivibrio	0.01%	0.26%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Clostridium_XIVa	1.27%	11.94%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Clostridium_XIVb	0.02%	0.71%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Coprococcus	0.18%	4.71%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Dorea	0.00%	0.02%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Hespella	0.00%	0.02%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Johnsonella	0.01%	0.24%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Lachnospiraceae_incertae_sedis	1.12%	5.78%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Lactonifactor	0.00%	0.00%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Marvinbryantia	0.06%	0.53%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Moryella	0.00%	0.33%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Oribacterium	0.00%	0.23%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Parasporobacterium	0.00%	0.00%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Robinsoniella	0.00%	0.16%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Roseburia	0.00%	0.14%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Shuttleworthia	0.00%	0.00%
Bacteria;Firmicutes;Clostridia;Clostridiales;Lachnospiraceae;Syntrophococcus	0.12%	5.02%
Bacteria;Firmicutes;Clostridia;Clostridiales;Peptostreptococcaceae;Clostridium_XI	0.00%	0.00%
Bacteria;Firmicutes;Clostridia;Clostridiales;Peptostreptococcaceae;Peptostreptococcus	0.00%	0.00%
Bacteria;Firmicutes;Clostridia;Clostridiales;Ruminococcaceae;Acetanaerobacterium	0.00%	0.24%
Bacteria;Firmicutes;Clostridia;Clostridiales;Ruminococcaceae;Acetivibrio	0.30%	2.64%
Bacteria;Firmicutes;Clostridia;Clostridiales;Ruminococcaceae;Anaerofilum	0.00%	0.00%
Bacteria;Firmicutes;Clostridia;Clostridiales;Ruminococcaceae;Anaerotruncus	0.02%	0.46%
Bacteria;Firmicutes;Clostridia;Clostridiales;Ruminococcaceae;Butyrivibrio	0.00%	0.00%
Bacteria;Firmicutes;Clostridia;Clostridiales;Ruminococcaceae;Clostridium_IV	0.37%	3.10%
Bacteria;Firmicutes;Clostridia;Clostridiales;Ruminococcaceae;Ethanoflaxigenens	0.00%	0.00%
Bacteria;Firmicutes;Clostridia;Clostridiales;Ruminococcaceae;Flavonifractor	1.31%	1.61%
Bacteria;Firmicutes;Clostridia;Clostridiales;Ruminococcaceae;Hydrogenoanaerobacterium	0.07%	0.96%
Bacteria;Firmicutes;Clostridia;Clostridiales;Ruminococcaceae;Oscillibacter	0.45%	3.39%
Bacteria;Firmicutes;Clostridia;Clostridiales;Ruminococcaceae;Papillibacter	0.00%	0.02%
Bacteria;Firmicutes;Clostridia;Clostridiales;Ruminococcaceae;Pseudoflavonifractor	0.37%	1.49%
Bacteria;Firmicutes;Clostridia;Clostridiales;Ruminococcaceae;Ruminococcus	0.00%	0.00%
Bacteria;Firmicutes;Clostridia;Clostridiales;Ruminococcaceae;Saccharofermentans	0.04%	0.27%
Bacteria;Firmicutes;Clostridia;Clostridiales;Ruminococcaceae;Subdoligranulum	0.00%	0.00%
Bacteria;Firmicutes;Erysipelotrichia;Erysipelotrichales;Erysipelotrichaceae;Bulleidia	0.00%	0.00%
Bacteria;Firmicutes;Erysipelotrichia;Erysipelotrichales;Erysipelotrichaceae;Clostridium_XVIII	0.96%	0.02%
Bacteria;Firmicutes;Erysipelotrichia;Erysipelotrichales;Erysipelotrichaceae;Coprobacillus	0.51%	0.06%
Bacteria;Firmicutes;Erysipelotrichia;Erysipelotrichales;Erysipelotrichaceae;Erysipelotrichaceae_incertae_sedis	0.03%	0.27%
Bacteria;Firmicutes;Erysipelotrichia;Erysipelotrichales;Erysipelotrichaceae;Holdemania	0.00%	0.00%
Bacteria;Firmicutes;Negativicutes;Selenomonadales;Acidaminococcaceae;Phascolarctobacterium	0.00%	0.00%
Bacteria;Firmicutes;Negativicutes;Selenomonadales;Veillonellaceae;Megasphaera	0.00%	0.00%
Bacteria;Firmicutes;Negativicutes;Selenomonadales;Veillonellaceae;Propionispira	0.00%	0.10%
Bacteria;Firmicutes;Negativicutes;Selenomonadales;Veillonellaceae;Zymophilus	0.00%	0.01%
Bacteria;Fusobacteria;Fusobacteria;Fusobacteriales;Fusobacteriaceae;Fusobacterium	0.00%	0.00%
Bacteria;Proteobacteria;Alphaproteobacteria;Caulobacteriales;Caulobacteraceae;Brevundimonas	0.01%	0.00%
Bacteria;Proteobacteria;Alphaproteobacteria;Rhizobiales;Hyphomicrobiaceae;Gemmiger	0.00%	0.01%
Bacteria;Proteobacteria;Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae;Blastomonas	0.00%	0.00%
Bacteria;Proteobacteria;Betaproteobacteria;Burkholderiales;Comamonadaceae;Delftia	0.00%	0.00%
Bacteria;Proteobacteria;Gammaproteobacteria;Enterobacteriales;Enterobacteriaceae;Escherichia_Shigella	0.00%	0.00%
Bacteria;Proteobacteria;Gammaproteobacteria;Pseudomonadales;Pseudomonadaceae;Pseudomonas	0.00%	0.00%
Bacteria;Proteobacteria;Gammaproteobacteria;Xanthomonadales;Xanthomonadaceae;Stenotrophomonas	0.02%	0.00%
Bacteria;Tenericutes;Mollicutes;Anaeroplasmatales;Anaeroplasmataceae;Anaeroplasma	0.13%	0.05%

Supplemental Table 5. Intestinal taxa (OTUs) common to all animals within a treatment group.

Untreated	Ampicillin
<i>Barnesiella</i>	<i>Barnesiella</i>
<i>Clostridium_XIVa</i>	<i>Clostridium_XIVa</i>
<i>Acetivibrio</i>	<i>Anaeroplasma</i>
<i>Clostridium_XVIII</i>	<i>Enterococcus</i>
<i>Coprococcus</i>	<i>Lactobacillus</i>
<i>Gracilibacter</i>	
<i>Hespellia</i>	
<i>Lachnospiracea</i>	
<i>Roseburia</i>	