

**Table S8. Microbiome sequencing statistics (fecal samples).**

Figure label	MID	Data label	Diet group	Date of collection	Total bp	Number reads	Filtered reads <sup>a</sup>	Description
LF/PP 1dpc group1	MID8	BK12.11	LF/PP	121107	9,192,572	41,596	35,228	1 day post colonization
LF/PP 7dpc group1	MID10	BK12.17	LF/PP	121707	10,953,419	48,418	40,909	1 week post colonization
LF/PP 28dpc group1	MID12	BK1.7	LF/PP	1708	7,635,202	34,657	29,089	1 month post colonization
LF/PP 29dpc group1	MID3	BK1.8	LF/PP	1808	9,070,937	41,175	34,663	4 wks and 1 day post colonization
LF/PP 35dpc group1	MID5	BK1.14	LF/PP	11408	8,942,972	39,255	33,357	5 wks post colonization
LF/PP 1dpc group2	MID9	W12.11	Western	121107	10,945,181	48,650	41,034	1 day post colonization
LF/PP 7dpc group2	MID11	W12.17	Western	121707	8,844,180	39,099	33,143	1 week post colonization
LF/PP 28dpc group2	MID1	W1.7	Western	1708	14,408,845	62,604	52,559	1 month post colonization
Western 1dpc (29dpc) group2	MID4	W1.8	Western	1808	9,105,299	41,129	34,385	1 day post diet switch
Western 7dpc (35dpc) group2	MID6	W1.14	Western	11408	9,074,582	42,024	35,308	1 week post diet switch
Donor	MID7	PD2G	Donor	121007	9,275,519	40,888	34,538	Human donor sample
<b>SUM</b>	-	-	-	-	107,448,708	479,495	404,213	

<sup>a</sup>Sequences remaining after removing low quality and replicate sequences (see *Supplementary Methods*).