

**Table S1: Proportions of bacterial taxa in the feces of adult mice.**

Phylum	Percentage (%)	Taxa	Percentage (%)	StDev		
Firmicutes	52.34	Lachnospiraceae	34.7	15.42		
		Lactobacillaceae ( <i>Lactobacillus</i> )	5.09	4.59		
		Clostridiales	3.67	2.03		
		Ruminococcaceae	3.47	1.55		
		Lachnospiraceae ( <i>Bryantella</i> )	1.8	1.18		
		Lachnospiraceae Incertae Sedis	0.88	0.49		
		Bacillales	0.84	1.92		
		Staphylococcaceae ( <i>Staphylococcus</i> )	0.78	1.63		
		Clostridia	0.39	0.79		
		Staphylococcaceae ( <i>Jeotgalicoccus</i> )	0.39	0.97		
		Unknown	0.24	0.28		
		Ruminococcaceae Incertae Sedis	0.06	0.09		
		Streptococcaceae ( <i>Streptococcus</i> )	0.01	0.03		
		Bacteroidetes	42.09	Unknown	24.07	9.31
				Prevotellaceae	13.7	6.91
Bacteroides	3.5			4.44		
Rikenellaceae ( <i>Alistipes</i> )	0.54			0.46		
Bacteroidales	0.17			0.16		
Prevotellaceae ( <i>Prevotella</i> )	0.05			0.09		
Rikenellaceae ( <i>Rikenella</i> )	0.05			0.09		
Unknown	4.82			1.82		
Proteobacteria	0.68	Unknown	0.307	0.72		
		Helicobacteraceae ( <i>Helicobacter</i> )	0.22	0.21		
		Deltaproteobacteria	0.09	0.13		
		Enterobacteriaceae	0.05	0.08		
		Unknown	0.18	0.25		
TM7	0.18	genera_incertae_sedis	0.18	0.25		
Tenericutes	0.12	Anaeroplasmataceae ( <i>Anaeroplasma</i> )	0.12	0.14		
Actinobacteria	0.04	Corynebacteriaceae ( <i>Corynebacterium</i> )	0.03	0.04		
		Coriobacteriaceae	0.01	0.03		
Deferribacteres	0.01	Deferribacteraceae ( <i>Mucispirillum</i> )	0.01	0.03		

**Unknown=** Short reads with no assigned taxonomy by RDP below phylum level.