

**Supplementary Table 1.** Genus-level classification of the bacterial 16S rRNA gene sequences in the large (LI) and small (SI) intestinal contents from the laboratory *Suncus murinus* and wild *Suncus murinus*.

Phylum	Family	Genus	Laboratory		Wild	
			LI	SI	LI	SI
Actinobacteria	Actinomycetaceae	<i>Actinomyces</i>	0	3	0	0
	Corynebacteriaceae	<i>Corynebacterium</i>	0	8	0	0
	PeM15_fa	PeM15_ge	0	0	1	0
	Propionibacteriaceae	Propionibacteriaceae_unclassified	0	8	0	0
Total in Actinobacteria			0	19	1	0
Firmicutes	Staphylococcaceae	<i>Staphylococcus</i>	0	0	0	1
	Enterococcaceae	<i>Enterococcus</i>	3	11	9	7
		<i>Vagococcus</i>	3	0	22	6
	Streptococcaceae	<i>Lactococcus</i>	0	0	22	48
		<i>Streptococcus</i>	69	136	0	5
	Clostridiaceae_1	<i>Clostridium_sensu_stricto_1</i>	10	0	9	17
		<i>Clostridium_sensu_stricto_7</i>	0	3	0	0
	Lachnospiraceae	<i>Tyzzerella_3</i>	0	0	1	0
	Peptostreptococcaceae	<i>Paeniclostridium</i>	37	0	16	11
		<i>Paraclostridium</i>	0	0	2	2
		Peptostreptococcaceae_unclassified	0	0	1	0
		<i>Romboutsia</i>	8	2	33	39
	Erysipelotrichaceae	<i>Terrisporobacter</i>	0	0	0	3
		<i>Turicibacter</i>	0	0	1	0
Total in Firmicutes			130	152	116	139
Fusobacteria	Fusobacteriaceae	<i>Fusobacterium</i>	0	0	0	1
Total in Fusobacterium			0	0	0	1
Proteobacteria	Hyphomicrobiaceae	<i>Pedomicrobium</i>	0	0	1	0
	Aeromonadaceae	<i>Aeromonas</i>	0	0	2	0
	Cardiobacteriaceae	uncultured_Cardiobacteriaceae	1	0	0	0
	Diplorickettsiaceae	uncultured_Diplorickettsiaceae	0	0	0	1
	Enterobacteriaceae	<i>Citrobacter</i>	0	0	9	6
		<i>Enterobacter</i>	0	0	0	6
		Enterobacteriaceae_unclassified	0	0	10	9
		<i>Escherichia-Shigella</i>	45	3	12	11
		<i>Kluyvera</i>	0	0	2	1
		<i>Lelliottia</i>	0	0	3	0
		<i>Morganella</i>	0	0	1	1
		<i>Plesiomonas</i>	0	0	34	37
		<i>Pseudocitrobacter</i>	0	0	2	0
		<i>Raoultella</i>	0	0	0	1
<i>Salmonella</i>	0	0	1	1		
Total in Proteobacteria			46	3	77	74
Tenericutes	Mycoplasmataceae	<i>Mycoplasma</i>	0	0	1	0
Total in Tenericutes			0	0	1	0
Total sequences			176	174	195	214