

**Table S7** Differentially abundant non-candidate OTUs and taxa conserved between facilities

**Ednrb mice - HSCR Dataset**

OTU-ID	Taxon	Statistical Test	Type	Facility	Association	Log <sub>2</sub> FC
549756^	G: <i>Lactobacillus</i>	G-Test	Fecal	Boston	P07-WT	-0.29
				Laramie	P07-KO	+2.4
n/a	G: <i>Streptococcus</i>	Kruskal-Wallis	Fecal	Boston	P07-KO	+10
				Laramie	P07-WT	-2.5
n/a	P: Actinobacteria	Kruskal-Wallis	Colon	Boston	P20-KO	+10
				Laramie	P20-WT	-6.7
		Nonparametric T		Boston	P20-KO	+10
				Laramie	P20-WT	-6.7
n/a	F: S24-7^	Kruskal-Wallis	Fecal	Boston	P20-KO	+1.4
				Laramie	P20-WT	-0.94
		Nonparametric T		Boston	P20-KO	+1.4
				Laramie	P20-WT	-0.94
n/a	F: Ruminococcaceae	Kruskal-Wallis	Fecal	Boston	P24-KO	+2.7
				Laramie	P24-WT	-4.8

^ Indicates OTUs or taxa observed at multiple ages. P: represents Phylum. F: represents Family. G: represents Genus. Log<sub>2</sub> Fold Change (FC) was calculated KO/WT, therefore (+) indicates association with KO mice and (-) indicates association with WT mice.