

Table S3. Donor engraftment (mean \pm standard deviation) among mice housed in SPF conditions, as determined by SourceTracker. Values sharing the same letter did not differ significantly by Tukey's *post-hoc* test ($P > 0.05$), where A had the highest engraftment and G the lowest. The final row shows all samples at all time points pooled by donor.

Sex	Time (days)	Obese		Lean	
		Ob1	Ob2	Ln1	Ln2
Male	3	44.2 \pm 6.4 ^{B-E}	22.9 \pm 5.2 ^{E-G}	52.6 \pm 3.3 ^{A-D}	10.7 \pm 0.7 ^{FG}
	7	67.7 \pm 5.1 ^{AB}	0.0 \pm 0.0 ^G	61.3 \pm 3.1 ^{AB}	31.4 \pm 5.3 ^{C-F}
	27-32	78.1 \pm 3.2 ^A	0.3 \pm 0.6 ^G	73.2 \pm 3.4 ^{AB}	27.4 \pm 3.0 ^{C-G}
Female	3	30.6 \pm 15.4 ^{C-F}	5.3 \pm 7.9 ^{FG}	52.0 \pm 15.0 ^{A-E}	23.5 \pm 6.1 ^{D-G}
	7	77.9 \pm 5.1 ^A	30.3 \pm 38.5 ^{C-F}	68.0 \pm 6.7 ^{AB}	4.2 \pm 5.6 ^{FG}
	27-32	70.5 \pm 6.8 ^{AB}	0.0 \pm 0.0 ^G	56.0 \pm 2.1 ^{ABC}	31.8 \pm 2.6 ^{C-F}
All pooled by donor		A	C	A	B