Table S2. Donor engraftment (mean \pm standard deviation) among conventionally housed mice, 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 J the lowest. The final row shows all samples at all time points pooled by donor.

Sex	Time		Obese			Lean	
	(days)	Ob1	Ob2	Ob3	Ln1	Ln2	Ln3
Male	3	80.4 ± 4.5^{ABC}	$26.5 \pm 6.0^{\text{F-J}}$	80.3 ± 36.1^{ABC}	$47.7 \pm 2.4^{\text{C-H}}$	$53.2 \pm 1.7^{\text{C-G}}$	$50.4 \pm 39.9^{\text{C-G}}$
	7	40.9^{D-I}	$7.8 \pm 6.8^{\mathrm{IJ}}$	$43.4 \pm 14.8^{D-H}$	$65.2 \pm 9.7^{\text{A-E}}$	$41.0\pm2.9^{D\text{-}I}$	$34.9 \pm 31.7^{\text{E-J}}$
	16	$46.1 \pm 9.7^{\text{C-H}}$	NC	NC	$68.4 \pm 4.0^{\text{A-E}}$	NC	NC
	27-32	$37.4 \pm 11.1^{\text{E-I}}$	0.0 ± 0.0^{J}	$13.0 \pm 7.0^{\mathrm{HIJ}}$	$37.3\pm1.5^{\text{E-I}}$	$42.1 \pm 7.7^{D-I}$	$23.6\pm14.4^{F\text{-J}}$
Female	3	$46.4\pm7.4^{\text{C-H}}$	$7.9 \pm 5.9^{\mathrm{IJ}}$	$95.3\pm1.2^{\mathrm{A}}$	$40.3\pm6.0^{\text{E-I}}$	$42.5 \pm 5.1^{\text{D-I}}$	$92.3 \pm 0.8^{\mathrm{AB}}$
	7	$58.6\pm8.5^{\text{B-F}}$	$0.0\pm0.0^{\rm J}$	$75.5 \pm 9.8^{\text{A-D}}$	$62.6\pm6.0^{\text{A-E}}$	$43.6\pm4.1^{\text{D-H}}$	$53.3 \pm 6.8^{\text{C-G}}$
	16	$52.2 \pm 3.1^{\text{C-G}}$	NC	NC	$53.2 \pm 14.1^{\text{C-G}}$	NC	NC
	27-32	$21.1 \pm 3.1^{G-J}$	$0.0\pm0.0^{\rm J}$	$45.4 \pm 3.3^{\text{C-H}}$	$14.2\pm1.6^{\rm HIJ}$	$35.9 \pm 3.5^{\text{E-H}}$	$39.5 \pm 2.7^{\text{E-I}}$
All pooled by donor		A	В	A	A	A	A

NC: sample not collected