

S1 Table. Vector properties of locomotor activity rhythms in individual mice during diet reversal.

	Mouse ID	Day 37	Day 38	Day 39	Day 40	Day 41	Day 42	Day 49
Mean Angle (μ) \pm SD*	A	260 \pm 72	236 \pm 68	253 \pm 78	240 \pm 77	248 \pm 70	240 \pm 71	266 \pm 75
	B	257 \pm 76	252 \pm 75	262 \pm 72	271 \pm 86	253 \pm 85	255 \pm 88	268 \pm 75
	C	279 \pm 69	268 \pm 67	258 \pm 74	269 \pm 75	261 \pm 68	264 \pm 76	254 \pm 77
	D	270 \pm 70	257 \pm 73	260 \pm 79	268 \pm 73	264 \pm 69	270 \pm 73	266 \pm 82
	E	265 \pm 79	256 \pm 70	244 \pm 68	250 \pm 74	252 \pm 72	252 \pm 68	254 \pm 72
Length (r)*	A	0.45	0.49	0.40	0.40	0.48	0.46	0.43
	B	0.41	0.43	0.45	0.33	0.33	0.30	0.43
	C	0.49	0.51	0.43	0.42	0.49	0.41	0.41
	D	0.47	0.44	0.38	0.45	0.48	0.46	0.36
	E	0.39	0.47	0.49	0.43	0.46	0.49	0.45

*The mean angle (μ) \pm circular standard deviation (SD) and vector length (r) are reported are for individual mice. *Rayleigh's Uniformity test was used to determine if the locomotor activity of individual mice had a significant non-uniform direction (all vectors were $p < 1 \times 10^{-12}$).