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Table S1. Details of probe assays used for qPCR.

Gene	Assay ID
ADRB3 (Thermo)	Rn00565393_m1
ASC1 (Thermo)	qRnoCIP0039017
CITED1 (BioRad)	qRnoCIP0039088
DIO2 (Thermo)	Rn00581867_m1
FGF21 (BioRad)	qRnoCEP0024589
P2RX5 (BioRad)	qRnoCIP0024301
PGC1a (BioRad)	qRnoCIP0022855
SLC36a2 (BioRad)	qRnoCIP0039017
TBX1 (BioRad)	qRnoCIP0027898
TMEM26 (BioRad)	qRnoCEP0028673
NAMPT (BioRad)	qRnoCIP0031455

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Table S2. Rat specific Forward and Reverse Oligonucleotide Primers Used for Real-Time PCR.

Gene	Forward primer	Reverse Primer
CIDEA	TCAGTGTTCGTATGATATCCGCT	ACCTGGGCAGCATAGGATG
PRDM16	CGAGAAGTTCTGCCGTGGATG	GGCACCTTCTTTCACATGCA
UCP1	GCCTAGCAGACATCATCACCT	GTTTCGGCAATCCTTCTGTCT
Mtor	TGGAGGGAGAGCGTCTGAGA	TGATGTGCCGAGGCTTTGT

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Table S3. Depot fat mass following 72h HFD (grams).

Depot	Chow	HFD
Paracardial AT	0.138±0.012g	0.138±0.023g
iBAT	0.627±0.096g	0.709±0.077g
Perirenal AT	7.48±1.67g	6.98±2.48g
Gonadal AT	6.31±0.83g	5.62±0.38g
Mesenteric AT	4.42±0.94g	5.60±0.71g
Inguinal AT	3.91±0.44g	4.51±0.7g
Total AT	22.87±3.31g	23.51±3.68g

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Figure S1. High fat diet (HFD) had no effect 24h energy expenditure (EE) as measured during either the light or dark phases. Data expressed as mean±SEM, n=6 per group.

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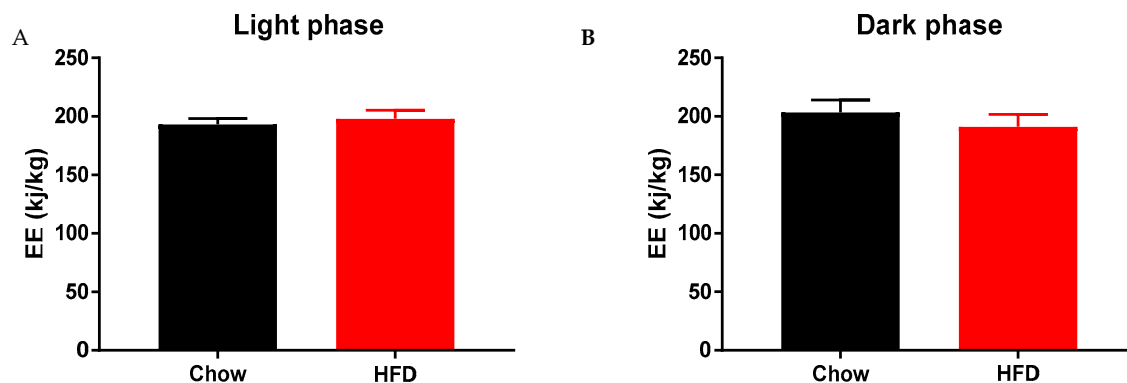
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22 **Figure S2.** Validation of select genes from targeted array plate. Data expressed as mean±SEM, n=5-6
23 per group.

