

## Supplementary Data

**Table S1.** The compositions of experimental diets

	(g / kg diet)		
Component	HF	GJL	GJH
Casein	170.73	170.73	170.73
Sucrose	121.95	121.95	121.95
Dextrose	154.00	154.00	154.00
Corn starch	201.71	200.71	199.71
Cellulose	60.98	60.98	60.98
Lard	230.50	230.50	230.50
Mineral mix (AIN-93G)	42.68	42.68	42.68
Vitamin mix (AIN-93)	12.20	12.20	12.20
L-cystein	2.20	2.20	2.20
Choline bitartrate	3.05	3.05	3.05
GJ	-	1.0	2.0
Total	1000	1000	1000
Energy density (kcal/g)	4.6	4.6	4.6
Carbohydrates % (kcal)	41.5	41.5	41.5
Protein % (kcal)	13.5	13.5	13.5
Fat % (kcal)	45.0	45.0	45.0

GJ, green tea and java pepper mixture; HF, 45% high-fat diet; GJL, HF with 0.1% GJ; and GJH, HF with 0.2% GJ.

**Table S2.** Primers used for RT-qPCR

Name	GeneBank No.	Primer sequence (5'-3')
$\beta$ -actin	NM_031144	F: GGCACCACACTTTCTACAAT R: AGGTCTCAAACATGATCTGG
aP2	NM_053365	F: TCACCCCAGATGACAGGAAA R: CATGACACATTCCACCACCA
CD36	NM_031561	F: CCTGTGAGTTGGCAAGAAGC R: AATGAGCCCACAGTTCCGAT
CPT1	NM_031559	F: TCGGCAGACCTATTTTGCAC R: ATTTGGCGTAGCTGTCGATG
FAS	NM_017332	F: GCAGCAGCATGATGTAGCAC R: AGTTGCACACCACAAGGTCA
PPAR $\alpha$	NM_013196	F: TACCTGTGAACACGATCTGA R: GCTAGTCTTTCCTGCGAGTA
SCD1	NM_139192	F: GTGGCAGGGCAGGAAATAGT R: CAACACCACAAGAAGCCACG
SREBP-1c	AF286470	F: AGGAGGCCATCTTGTTGCTT R: GTTTTGACCCTTAGGGCAGC
UCP2	NM_019354	F: ACTGTCGAAGCCTACAAGAC R: CACCAGCTCAGTACAGTTGA

aP2, adipocyte protein 2; CD36, cluster of differentiation 36; CPT1, carnitine / palmitoyl-transferase 1; FAS, fatty acid synthase; PPAR $\alpha$ , Peroxisome proliferator-activated receptor alpha; SCD1, stearoyl-CoA desaturase 1; SREBP1-c, sterol regulatory element binding protein 1-c; UCP2, uncoupling protein 2.