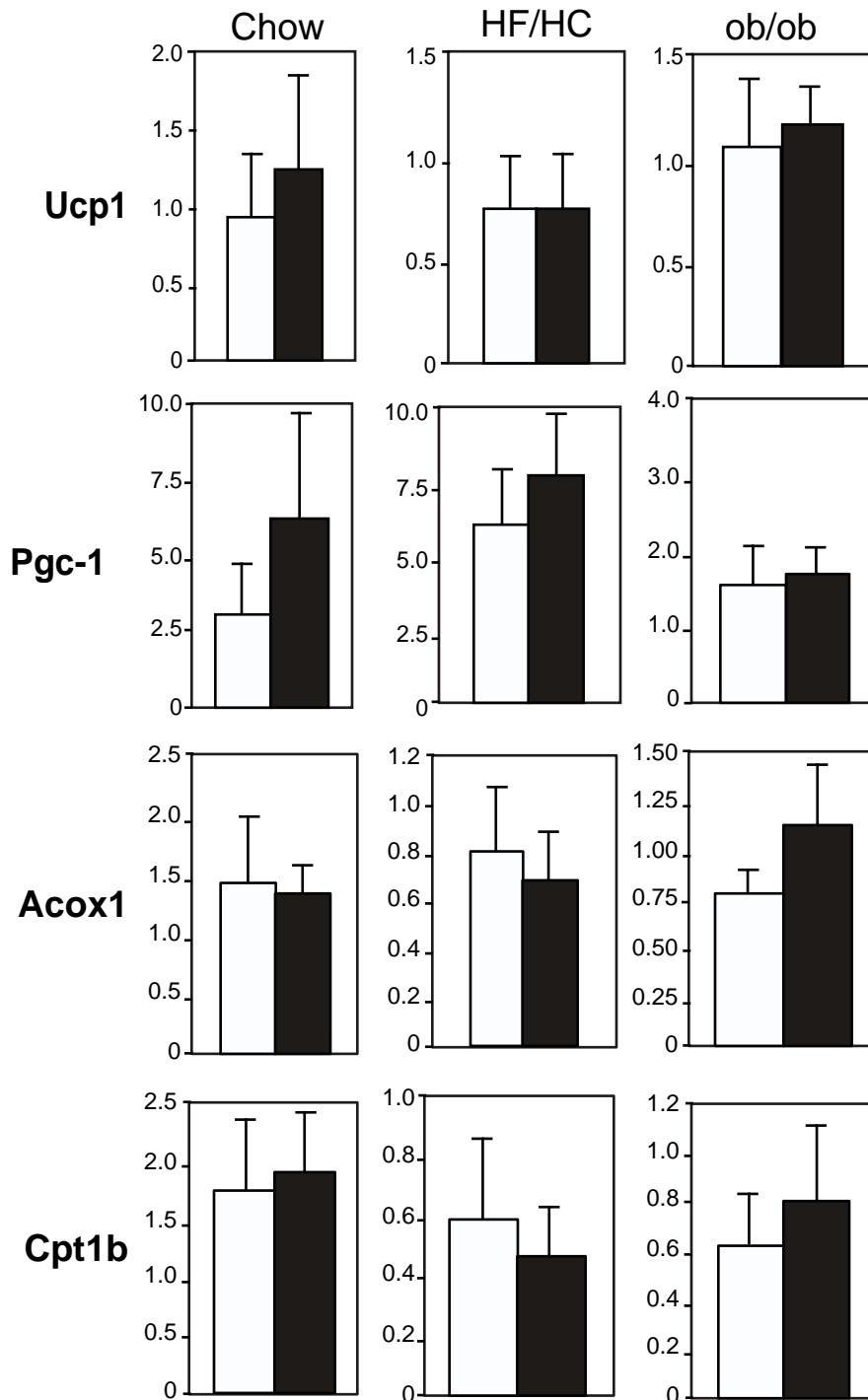


Supplemental Table 1. Fatty acid composition (%) in lipid classes. Geno, genotype; SFA, saturated; MUFA, monounsaturated; PUFA, polyunsaturated; n3, n6, and n9, position of double bond in fatty acid; plas, plasmalogen; WT wild-type; KO, *Agpat6*^{-/-}; N.D., not detectable. *, *p* < 0.05 for *Agpat6*^{-/-} vs. wild-type.

Tissue	Lipid	Geno	%SFA	%MUFA	%PUFA	%n3	%n6	%n9	%plas
Plasma	DAG	WT	54.5±3.7	20.5±1.2	22.4±3.8	4.1±0.8	17.8±2.6	16.8±0.7	2.5±1.2
Plasma	DAG	KO	56.0±0.4	22.2±2.5	19.3±1.4	4.3±0.4	14.8±1.7	17.2±3.3	2.5±0.8
Plasma	TAG	WT	27.6±1.5	32.9±1.3	39.1±0.9	5.5±0.1	33.4±0.8	26.8±0.4	0.38±0.23
Plasma	TAG	KO	30.0±3.6	28.4±0.5*	41.1±3.4	6.3±0.8	34.3±3.5	235±1.1*	0.49±0.37
Plasma	PC	WT	45.5±1.8	11.5±0.4	42.8±1.4	6.9±0.4	35.8±1.8	9.2±0.3	N.D.
Plasma	PC	KO	45.0±1.2	9.8±0.8*	42.8±1.4	8.5±0.6*	36.4±0.7	7.7±0.8*	N.D.
Plasma	LysoPC	WT	57.5±0.8	12.0±1.3	30.4±2.0	2.6±0.5	27.7±1.5	9.9±1.0	0.09±0.02
Plasma	LysoPC	KO	58.8±2.7	11.0±0.2	30.1±2.9	3.3±0.5	26.7±2.8	8.8±0.4	0.10±0.02
BAT	DAG	WT	38.6±2.8	38.0±3.7	21.6±1.1	4.0±0.9	17.6±1.4	30.1±1.9	1.7±0.5
BAT	DAG	KO	38.2±1.4	33.8±1.0	27.0±2.2*	1.9±0.3*	25.1±2.2*	28.1±0.5	0.9±0.1
BAT	TAG	WT	27.4±0.2	48.3±0.8	24.3±0.6	1.54±0.14	22.7±0.7	42.5±0.3	0.027±0.007
BAT	TAG	KO	29.3±3.4	40.8±2.6*	29.8±4.0	1.22±0.25	28.5±4.1	35.9±3.6*	0.02±0.01
BAT	FFA	WT	48.6±1.2	34.1±2.1	17.3±1.4	2.5±0.8	14.8±2.2	28.0±1.0	N.D.
BAT	FFA	KO	42.1±5.4*	32.0±2.8	25.9±3.2*	1.9±0.3	24.0±3.3*	28.2±2.5	N.D.
BAT	PC	WT	33.3±1.1	18.1±1.0	47.5±2.1	10.6±1.4	36.9±3.4	15.2±0.4	1.09±0.04
BAT	PC	KO	33.1±2.0	12.7±0.8*	53.3±2.0*	10.3±1.0	43.0±3.0	10.8±0.8*	0.90±0.26
Liver	DAG	WT	29.2±1.1	34.5±1.6	35.9±0.5	4.2±0.1	31.6±0.4	27.7±1.0	0.36±0.08
Liver	DAG	KO	27.7±2.8	31.1±0.2*	38.8±2.8	4.8±0.1*	33.9±2.9	25.3±1.2	0.28±0.19
Liver	TAG	WT	25.3±0.8	37.4±0.5	37.2±0.2	4.5±0.2	32.6±0.4	30.2±0.5	0.12±0.19
Liver	TAG	KO	25.9±3.1	33.8±1.2*	40.3±2.7	5.0±0.56	35.2±3.28	27.7±1.84	0.01±0.01
Liver	PC	WT	44.5±0.8	12.2±1.1	43.2±0.4	8.9±0.6	34.2±0.3	9.8±0.8	0.11±0.03
Liver	PC	KO	44.8±1.4	10.2±0.9	44.9±0.9*	10.9±0.8*	33.9±1.7	7.9±1.0	0.11±0.02
Liver	LysoPC	WT	57.2±4.6	17.9±6.5	23.6±2.1	6.4±0.3	17.0±2.3	13.8±6.0	1.12±0.45
Liver	LysoPC	KO	59.6±2.9	17.8±1.3	21.7±2.4	4.9±1.1	16.5±3.2	15.7±1.4	0.41±0.30

Supplemental Fig. 1



Supplemental Fig. 1. Gene expression in brown adipose tissue. Data were obtained from mice maintained on a chow diet, HF/HC diet, and ob/ob background using real-time PCR (n = 4 for each group). Values represent relative mRNA expression normalized as described in Methods. White and black bars represent wild-type and *Agpat6*^{-/-}, respectively.