SUPPLEMENTAL DATA

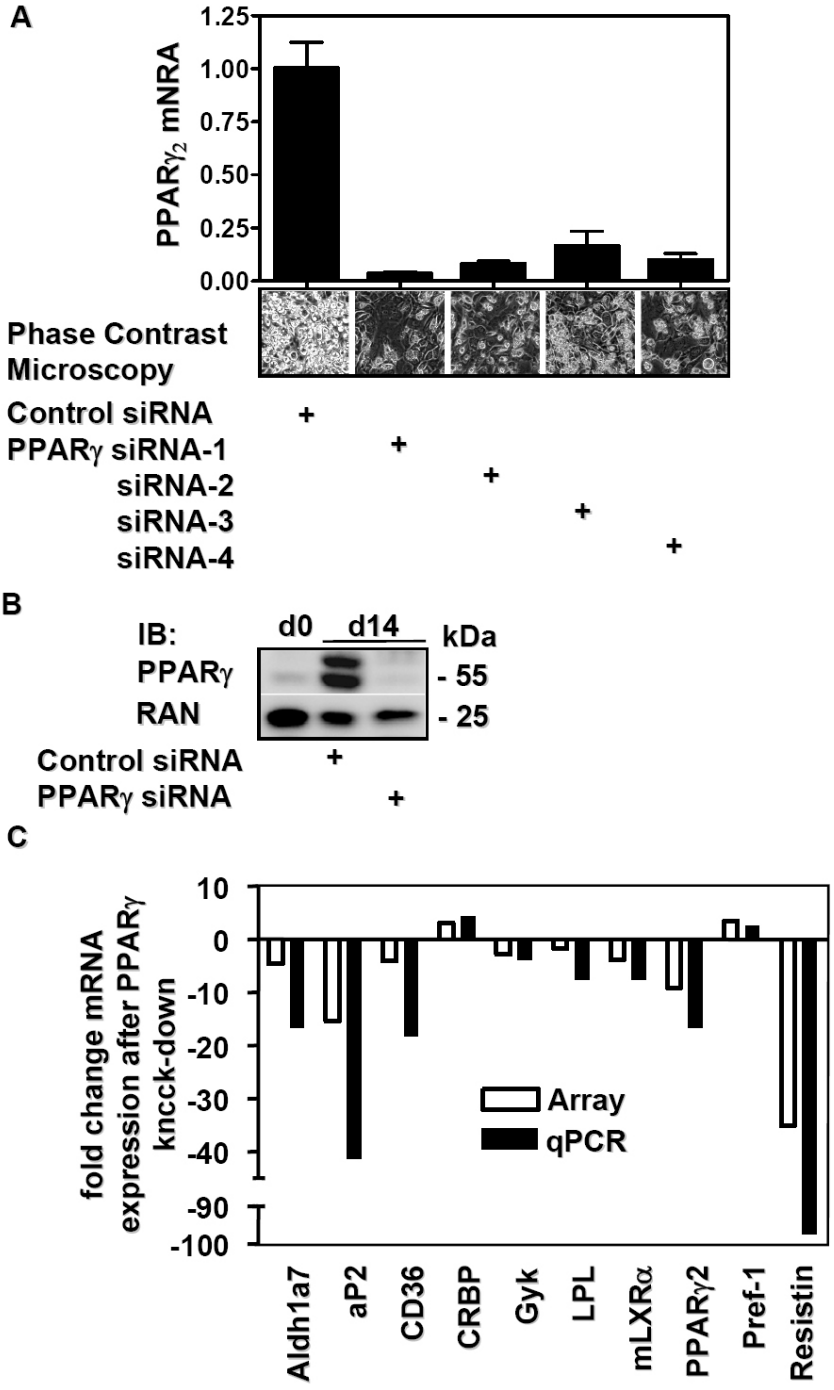
SUPPLEMENTAL FIGURE LEGENDS

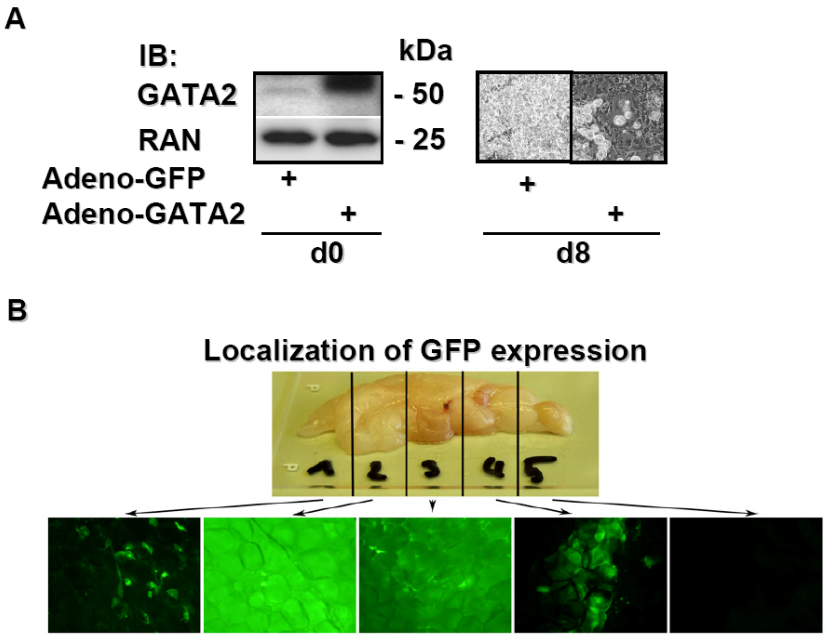
Fig. S1. Validation of PPARγ knockdown and Affymetrix microarray analysis. *A.* 3T3-L1 cells 4 days after the initiation of differentiation were electroporated with control or different PPARγ siRNA oligonucleotides (1-4). After reseeding, cells were grown for 48 hours and assessed by phase contrast microscopy and processed for PPARγ_2 mRNA expression. *B.* Confluent preadipocytes and control or PPARγ siRNA electroporated day 14 adipocytes were processed for protein and analyzed for PPARγ and RAN expression by immunoblotting. *C.* Correlation of mRNA expression values determined by Affymetrix microarray and qPCR.

Fig. S2. Generation of an adenoviral GATA2 expression vector and validation of localized overexpression in epididymal adipose tissue *in vivo* by fat pad injections. *A.* Subconfluent preadipocytes were infected with GFP or GATA2 expressing adenoviruses. 2 days after reaching confluency, GATA2 and RAN protein expression was analyzed. Cells were subjected to the differentiation protocol for 8 days and assessed for adipocyte conversion by phase contrast microscopy. *B.* GFP expression was localized in the whole fat pad 48h after injection.

SUPPLEMENTAL FIGURES

Schupp *et al.* Fig. S1




A
IB:
kDa
GATA2
- 50
RAN
- 25
Adeno-GFP
+
+
Adeno-GATA2
+
+
d0
d8
B
Localization of GFP expression
1
2
3
4
5

SUPPLEMENTAL TABLES

Table S1. Primers, probes and siRNA oligonuceotides used in this study

qPCR	m36B4 fw	TCATCCAGCAGGTGTTTGACA
	m36B4 rv	GGCACCGAGGCAACAGTT
	m36B4 probe	6FAM-AGAGCAGGCCCTGCACTCTCG-TAMRA
	maP2 fw	TGGAAGACAGCTCCTCCTCG
	maP2 rv	AATCCCCATTTACGCTGATGATC
	maP2 probe	6FAM-TGCCACAAGGAAAGTGGCAGGCA- TAMRA
	mPPARγ_2 fw	TGGGTGAAACTCTGGGAGATTC
	mPPARγ_2 rv	GAGAGGTCCACAGAGCTGATTCC
	mPPARγ_2 probe	6FAM-CCCAGAGCATGGTGCCTTCGCTGT -TAMRA
	mGATA2, mCes3, mMMP14, mAldh1a7, mCD36, mCRBP, mGyk, mLPL, mLXRα, mPref-1, mResistin	ASSAY ON DEMAND, ABI
siRNA	PPARγ siRNA-1	CAACAGGCCUCAUGAAGAAUU
	PPARγ siRNA-2	GACAUGAAUUCCUUAAUGAUU
	PPARγ siRNA-3	GAAGAACCAUCCGAUUGAAUU
	PPARγ siRNA-4	CUGCAUCUCCACCUUAUUAUU

Table S2. A. Reciprocal regulation of genes containing PPREs during differentiation and PPARγ knockdown B. Genes differentially regulated in comparison to genes with PPREs sorted by fold change (FC) during differentiation.

A

Selection of Genes with PPREs

Gene	Diff. FC	Kd FC
G0s2	581.03	-2.39
Acsl1	154.76	-17.6
Cd36	86.45	-4.18
Pck1	84.87	-67.24
Cidea	68.09	-57.37
Lipe	48.59	-9.29
Fabp4	35.8	-15.46
Aqp7	18.18	-13.87
Sorbs1	15.19	-2.34
Serpine1	13.71	-5.99

B

Differentially regulated

Gene	Diff. FC	Kd FC
Ces3	52.10	1.26
Cyp2c44	23.77	1.06
Dapk1	22.34	1.01
A030001D16Rik	13.16	1.11
Ndrg1	12.17	1.25
Hfe	11.90	1.04
Rorc	11.82	1.08
Phkg1	11.22	2.18
Acox2	10.56	1.30
Ndrl	9.41	1.24
Fbln1	-11.48	-1.14
Ereg	-9.17	-1.01
Smoc2	-8.20	-1.13
Inmt	-7.34	-1.18
Ltbp1	-7.11	-1.08
A730054J21Rik	-6.10	-1.03
Ngfb	-6.01	-1.02
Gata2	-5.92	-1.11
Rhobtb3	-5.26	-1.05
Ogt	-5.26	-1.05