

Supplementary information:

Ndrp1 promotes adipocytes differentiation and sustains their function

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Supplementary Table 1

QPCR primers:

Gene Name	Gene Symbol	Forward sequence	Reverse Sequence
Peroxisome proliferator-activated receptor- γ	Ppar γ	GGAAGACCACTC GCATTCCTT	GTAATCAGCAACC ATTGGGTCA
Fatty acid synthase	Fasn	GGAGGTGGTGAT AGCCGGTAT	TGGGTAATCCATA GAGCCCAAG
Hormone-sensitive lipase	Hsl	TTCTCCAAAGCAC CTAGCCAA	TGTGGAAACTAA GGGCTTGTTG
Adipose triglyceride lipase	Atgl	CAACGCCACTCA CATCTACGG	GGACACCTCAATA ATGTTGGCAC
Glycerol kinase	Glyk	CGGAGACCAGCC GTGTAAAG	GTCCACTGCTCCCA CCAATG
acetyl-Coenzyme A carboxylase alpha	Acc1	GA CAG ACT GAT CGC AGA GAA AG	TGG AGA GCC CCA CAC ACA
stearoyl-Coenzyme A desaturase 1	Scd1	CCC AGT CGT ACA CGT CAT TTT	CAT CAT TCT CAT GGT CCT GCT
diacylglycerol O-acyltransferase	Dgat1	GTG CCA TCG TCT GCA AGA TT	CTG GAT AGG ATC CAC CAG GA
Adiponectin	Adiponectin	CCAACCTGCACA AGTTCCCTT	TGTTCTCTTAATC CTGCCCA
N-Myc downstream regulated gene 1	Ndrg1	ATGTCCCGAGAG CTACATGAC	CCTGCTCCTGAACA TCGAACT
Monoglyceride lipase	Mgl	ACCATGCTGTGAT GCTCTCTG	CAAACGCCTCGGG GATAACC
CCAAT/enhancer binding protein (C/EBP) alpha	C/Ebp α	AAACAACGCAAC GTGGAGA	GCGGTCATTGTCAC TGGTC
Leptin	Leptin	GTGGCTTTGGTCC TATCTGTC	CGTGTGTGAAATGT CATTGATCC
Perilipin 1	Perilipin 1	GGG ACC TGT GAG TGC TTC C	GTA TTG AAG AGC CGG GAT CTT TT

shRNA sequences:

Ndrg1 seq1	TGCTGTTGACAGTGAGCGTGCTGTTGACAGTGAGCGACAGGATCTTG GAGTTGCTAGATAGTGAAGCCACAGATGTATCTAGCAACTCCAAGAT CCTGGTGCCTACTGCCTCGGACTTCAAGGGGCTAGAATTC
Ndrg1 seq2	TGCTGTTGACAGTGAGCGTGCTGTTGACAGTGAGCGCTCGCTGGTTCT TCAGAGAGAATAGTGAAGCCACAGATGTATTCTCTCTGAAGAACCAG CGATTGCCTACTGCCTCGGACTTCAAGGGGCTAGAATTC
Ndrg1 seq3	TGCTGTTGACAGTGAGCGTGCTGTTGACAGTGAGCGCCGGCAAGGAG GAGATACACAATAGTGAAGCCACAGATGTATTGTGTATCTCCTCCTTG CCGATGCCTACTGCCTCGGACTTCAAGGGGCTAGAATTC
Ndrg1	TGCTGTTGACAGTGAGCGTGCTGTTGACAGTGAGCGCTCCGTGCTTGC

seq4	TTGCTCATTATAGTGAAGCCACAGATGTATAATGAGCAAGCAAGCAC GGAATGCCTACTGCCTCGGACTTCAAGGGGCTAGAATTC
Ndrg1 seq5	TGCTGTTGACAGTGAGCGTGCTGTTGACAGTGAGCGCAGGGATCAGTT TACCTGCCAATAGTGAAGCCACAGATGTATTGGCAGGTAAACTGATCC CTTTGCCTACTGCCTCGGACTTCAAGGGGCTAGAATTC

Supplementary Fig. 1 NdrG1 promotes Ppar γ abundance.

Western blot for indicated proteins in control and NdrG1-depleted differentiated 3T3L1 cells stimulated with indicated substances.

