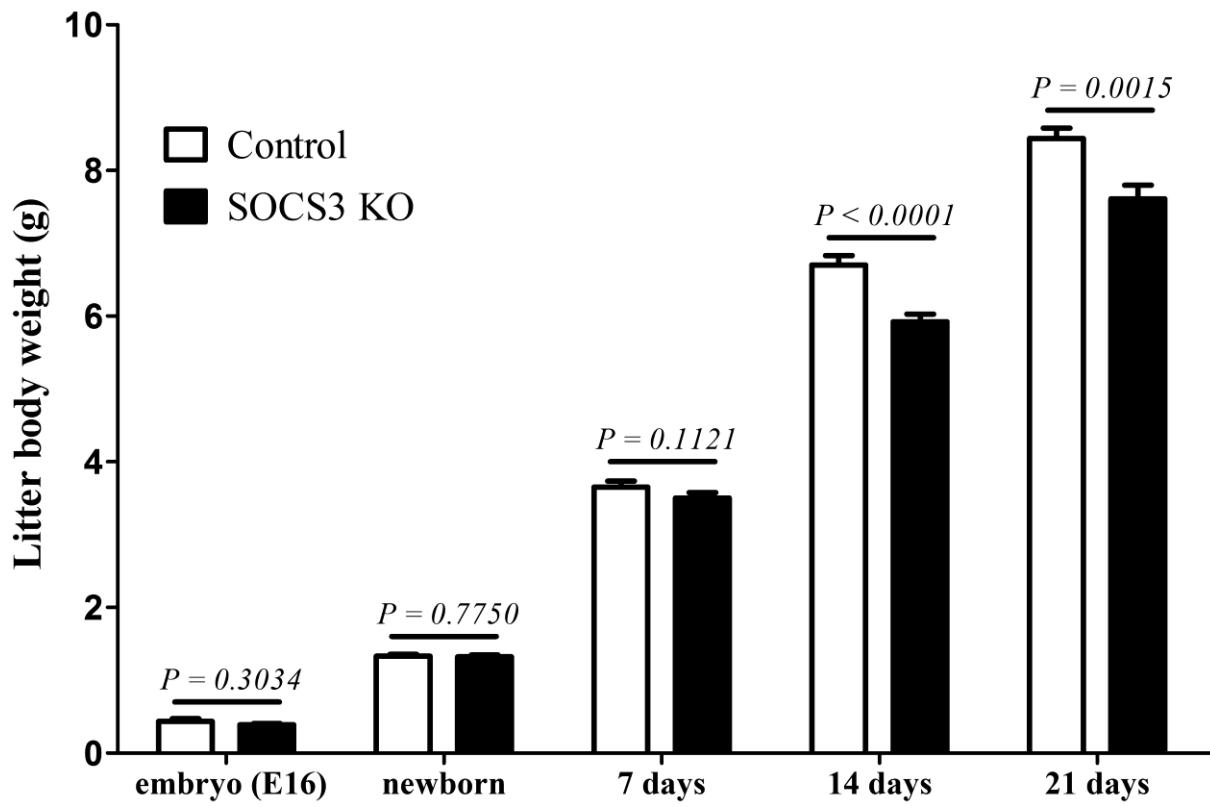
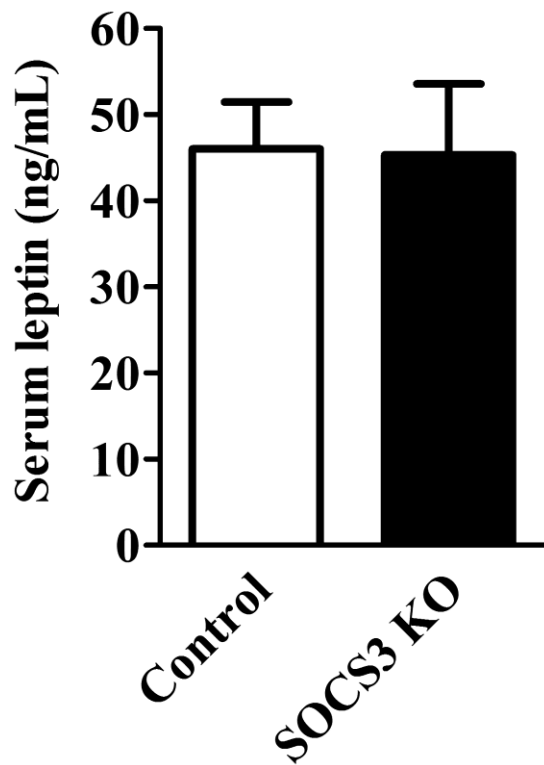


Supplemental Figure 1 Hypothalamic gene expression in pregnant control and SOCS3

KO mice ($n = 8/\text{group}$). * $p < 0.05$.

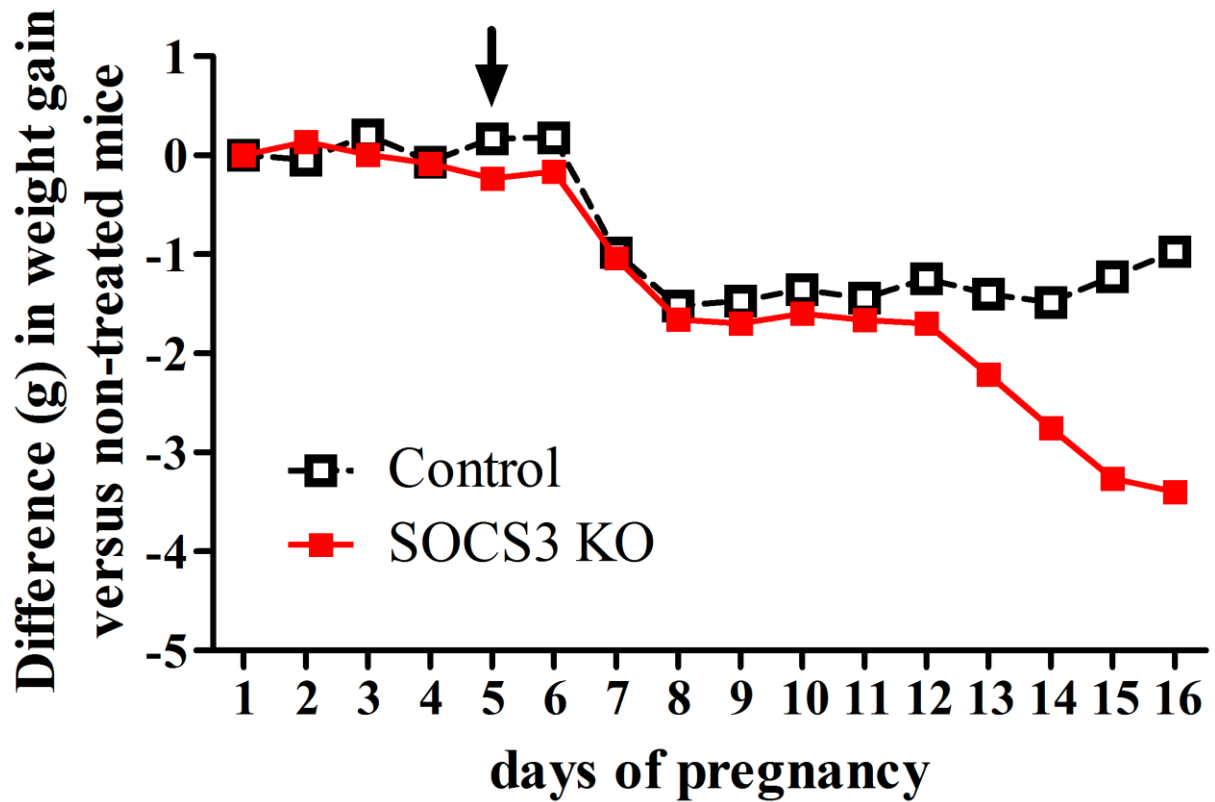


Supplemental Figure 2 Body weight of the pups from control and SOCS3 KO dams.

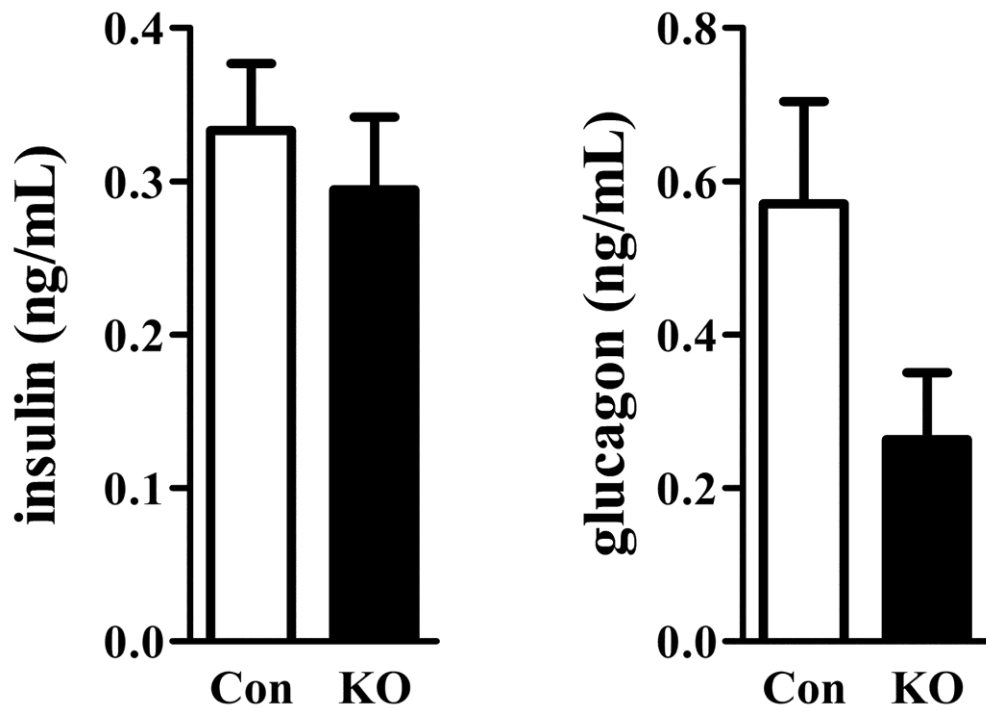


Supplemental Figure 3 Serum leptin levels of leptin-treated control and SOCS3 KO

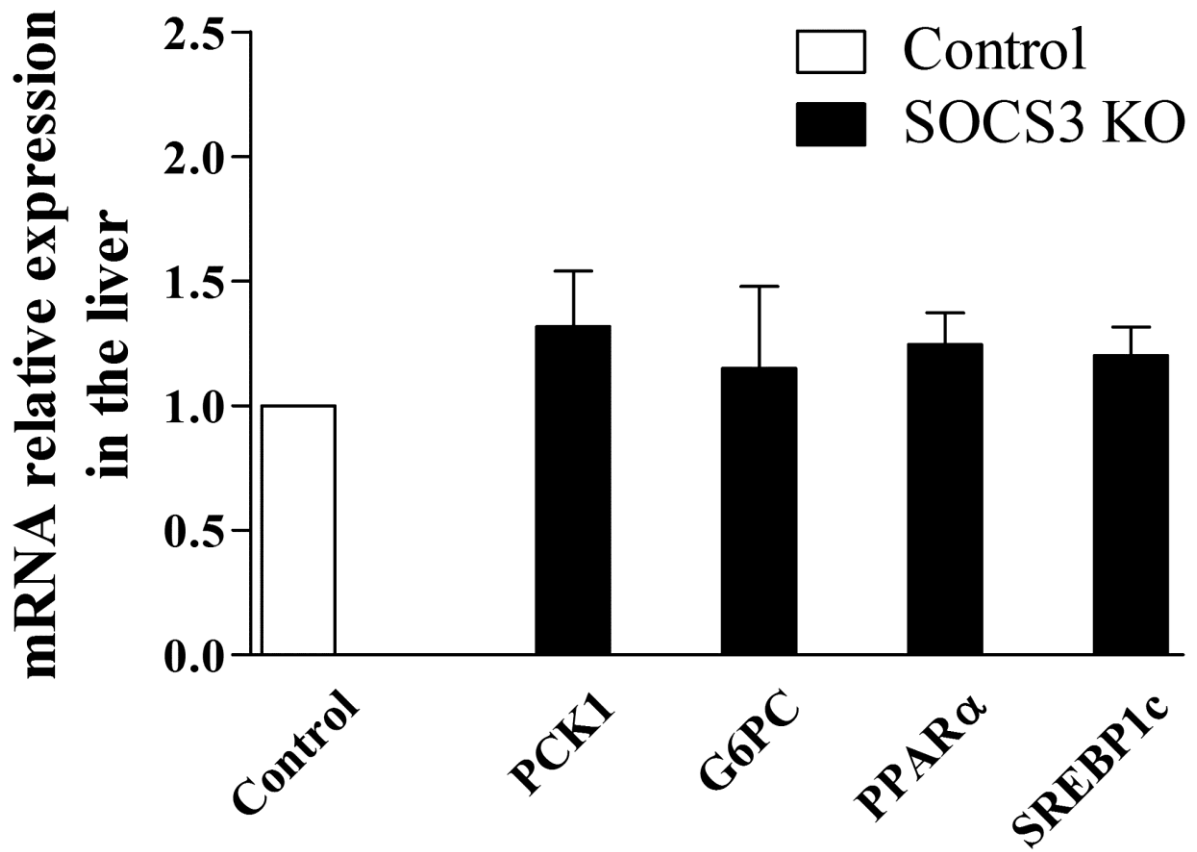
mice. A micro-osmotic pump (model 1002; Alzet) was implanted s.c. at day 5 of pregnancy to infuse 0.5 μ g leptin/h and serum leptin levels were analyzed at day 16 of pregnant;



Supplemental Figure 4 Difference in the weight gain compared to non-leptin treated mice. The arrow indicates the day (P5) that the osmotic pumps containing leptin were implanted into the animals. These results represent a different analysis from the data shown in Figures 3B and 3C.



Supplemental Figure 5 Hormone levels in pregnant control and SOCS3 KO mice. No significant changes were observed in the serum concentrations of insulin ($p = 0.56$) and glucagon ($p = 0.07$) between the groups ($n = 8/\text{group}$).



Supplemental Figure 6 Gene expression in the liver of pregnant control and SOCS3 KO mice ($n = 8/\text{group}$).

Supplemental Table 1 Primer sequences.

Gene of interest	Accession no.	Forward primer (5'-3')	Reverse primer (5'-3')	Product size (bp)
ABCC8	NM_011510.3	GTCTTCTGGAACAGCGCCT	GTCCTGAGGCAATACCTGGG	63
ABCC9	NM_021041.2	ATCGACATGGCCACGGAAAA	GAGACACGGTGAGCTATGGT	91
ACTB	Mm_00607939_s1	-	-	115
Cyclophilin A	NM_008907.1	TATCTGCACTGCCAAGACTGAGT	CTTCTTGCTGGTCTTGCCATTCC	128
GAPDH	GU21402.1	CTCCCACTCTTCCACCTTCG	CCACCACCCTGTTGCTGTAG	110
G6PC	NM_008061.3	GCTGGAGTCTTGTCAGGCAT	CGGAGGCTGGCATTGTAGAT	74
KCNJ11	NM_010602.3	GCTGTCCCAGAAAGGGCATT	CCTCCTCTCTCGAGTACGGT	94
KCNJ8	NM_008428.4	CATGGAGAAGAGTGGCCTGG	CGCAGACGTGAATGACCTGA	64
Ob-Ra	NM_001122899.1	AATGACGCAGGGCTGTATGT	ATGGACTGTTGGGAAGTTGG	238
Ob-Rb*	Mm01265583_m1	-	-	74
Ob-Re	NC_000070.6	TGAAGATGATGGAATGAAGTGG	AGTTGGCATCCTTATTTTGAGGT	161
PRKCδ	NM_011103.3	AACTGGTCCCTCCTGGAGAA	AGGGGATTTCACTTTGGGCT	63
PRKCθ	NM_008859.2	GTCAGGGAGAGGCAGTGAAC	TCTGCCCATTTTCTGATTCCAC	72
PTP1B	NM_011201.3	GGCGTGGTCATGCTCAAC	GCCAATACTGGGCACATTTTAA	61
PTPN11	NM_011202.3	AACGACGGCAAGTCCAAAGT	TGCTCCACCAGGTCTGTCAG	107
PTPN2	NM_008977.3	GTGATCCATTGCAGTGCG	TTCCATCAGAACAAGACAGGTAT	75
PTPRε*	Mm00448493_m1	-	-	68
SH2B1	NM_001081459.2	CCATGGTGTCTTCTTGGTAC	GTCCCTCCTCATTTAGTGAC	113
SOCS1*	Mm00782550_s1	-	-	88
SOCS3*	Mm00545913_s1	-	-	76

*, TaqMan Gene Expression Assay (Applied Biosystems).