

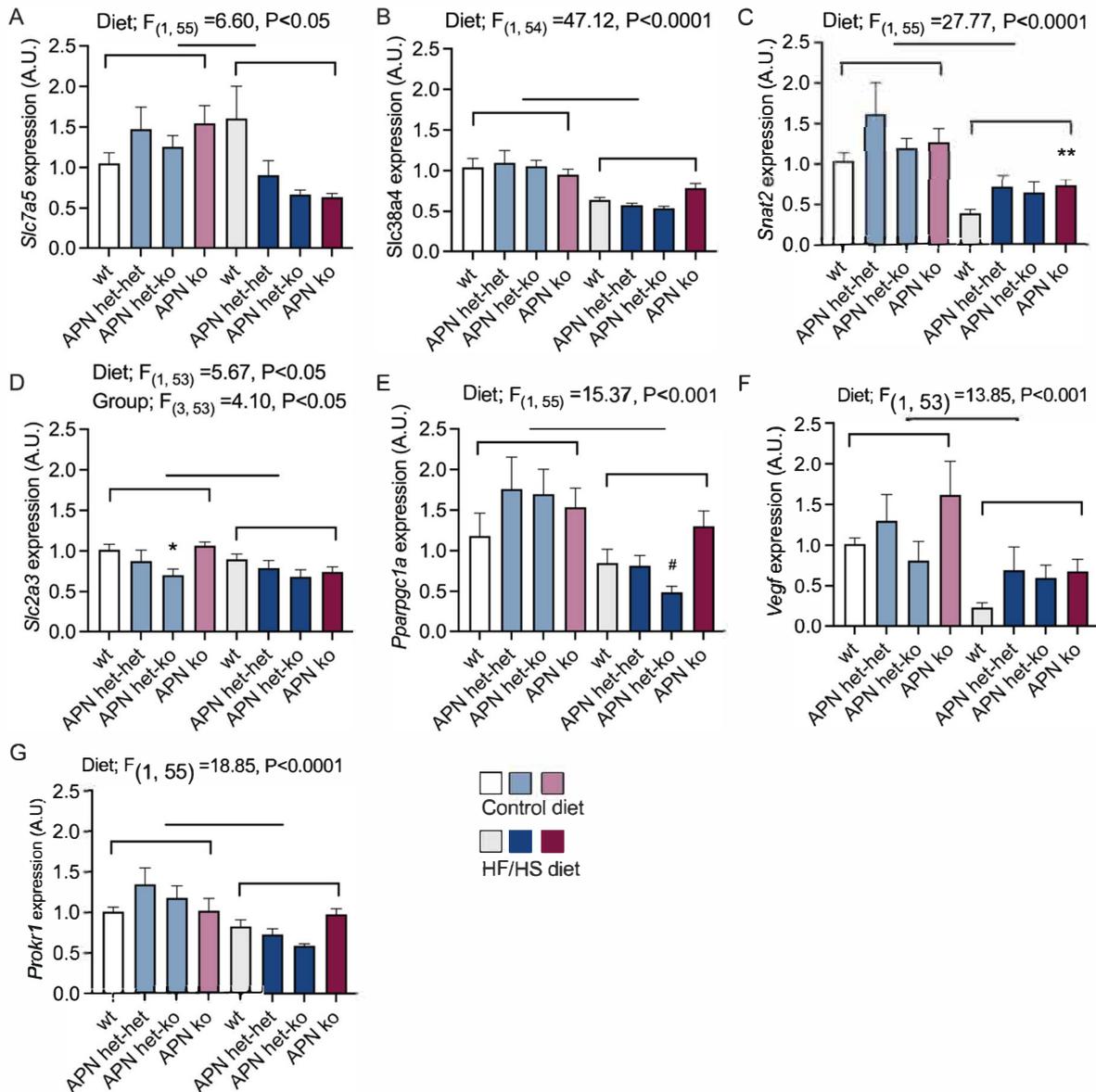
**Table S1.** Body composition in female mice after 8 weeks on control diet (CD) or high fat/high sucrose (HF/HS) diet.

	<b>wt-CD (n=7)</b>	<b>APNhet- CD (n=8)</b>	<b>APNko- CD (n=9)</b>	<b>wt-HF/HS (n=9)</b>	<b>APNhet- HF/HS (n=8)</b>	<b>APNko- HF/HS (n=7)</b>	<b>two-way ANOVA</b>
Body weight (g)	18.9 ± 0.6	19.7 ± 0.7	20.8 ± 1.2	22.7 ± 0.9	24.4 ± 1.1	24.6 ± 1.3	a F <sub>(1, 38)</sub> =20.36, P<0.0001
Fat mass (%)	13.9 ± 0.3	15.9 ± 0.2	16.2 ± 1.1	24.1 ± 1.7	23.7 ± 2.3	26.6 ± 2.2	a F <sub>(1, 38)</sub> =43.45, P<0.0001
Lean mass (g)	16.3 ± 0.5	16.6 ± 0.6	17.4 ± 0.8	17.1 ± 0.4	18.5 ± 0.7	18.0 ± 0.7	
b-glucose (mmol/L)	6.4 ± 0.4	5.9 ± 0.3	6.8 ± 0.3	7.1 ± 0.4	7.1 ± 0.3	7.0 ± 0.3	a F <sub>(1, 38)</sub> = 4.61, P=0.038
s-insulin (ug/L)	0.22 ± 0.04	0.43 ± 0.06*	0.45 ± 0.07 *	0.80 ± 0.20	0.45 ± 0.09	0.70 ± 0.13	a F <sub>(1, 38)</sub> =6.65, P=0.014

The main effect of diet and genotype; adiponectin knockout (APNko), adiponectin heterozygote (APNhet), and wild-type (wt) was analyzed by two-way ANOVA. a; main effect of diet, there was no interaction effect. The effect of genotype within diet was analyzed using Brown-Forsythe ANOVA test with Dunnett's multiple comparisons test. \* P<0.05 vs wt within diet. Data are presented as mean ± SEM.

**Table S2.** RT-PCR primer sequences

<b>Gene</b>	<b>Forward primer 5'-3'</b>	<b>Reverse primer 5'-3'</b>
<i>Actb</i>	GACCCAGATCATGTTTGAGA	GAGCATAGCCCTCGTAGAT
<i>Gapdh</i>	ATGGCCTTCCGTGTTCTAC	GCCTGCTTCACCACCTTCTT
<i>Hprt1</i>	CCCTGGTTAAGCAGTACAGCCCC	AGTCTGGCCTGTATCCAACACTTCG
<i>Lpl</i>	TGGATGAGCGACTCCTACTTCA	CGGATCCTCTCGATGACGAA
<i>Cd36</i>	GGTCCTTACACTACAGAGTTCGTTA	CATTGGGCTGTACAAAAGACACA
<i>Slc7a5</i>	GGCGTACATCAGCGTCAT	GTTACGTCCTCAAGACTGTT
<i>Slc38a4</i>	TCACACTGCTGTTTCCAAGG	CAGCCGGAAGAATGAAAATC
<i>Snat2</i>	GCAGCCGGAGAAGGATGATGAAC	GAAGAGGGCGGCAAGCAAATACA
<i>Slc2a3</i>	ATGGGGACAACGAAGGTGAC	GTCTCAGGTGCATTGATGACTC
<i>Ppar<math>\gamma</math></i>	TTGAGTGCCGAGTCTGTGG	GGCATTGTGAGACATCCCCA
<i>Ppargc1<math>\alpha</math></i>	TATGGAGTGACATAGAGTGTGCT	CCACTTCAATCCACCCAGAAAG
<i>Vegf</i>	ATGCTCCTCCTAGTAACTGTGTCTGACT	CTCGAAGCCACAGGCTGATG
<i>Prokr1</i>	GCCATTGCCATTGACAGGTA	TGGTGAAGTAGGCAGCTGGA



Supplemental Figure S1. Placenta gene expression of *Slc7a5* (A), *Slc38a4* (B), *Snat2* (C), *Slc2a3* (D), *Ppargc1a* (E), *Vegf* (F), and *Prokr1* (G) from adiponectin knockout (APN ko), adiponectin heterozygote (APN het), and wild-type (wt) dams on control or high-fat/high-sucrose (HF/HS) diet. The effect of diet-induced obesity and dam genotype (wt, APN het, and APN ko) was analyzed using two-way ANOVA. The effect of genotype within diet was analyzed using Brown-Forsythe ANOVA test with Dunnett's multiple comparisons test. \*\*  $P < 0.01$  vs wt within diet. #  $P < 0.05$  APN het-het vs APN het-ko. Data are presented as mean  $\pm$  SEM.