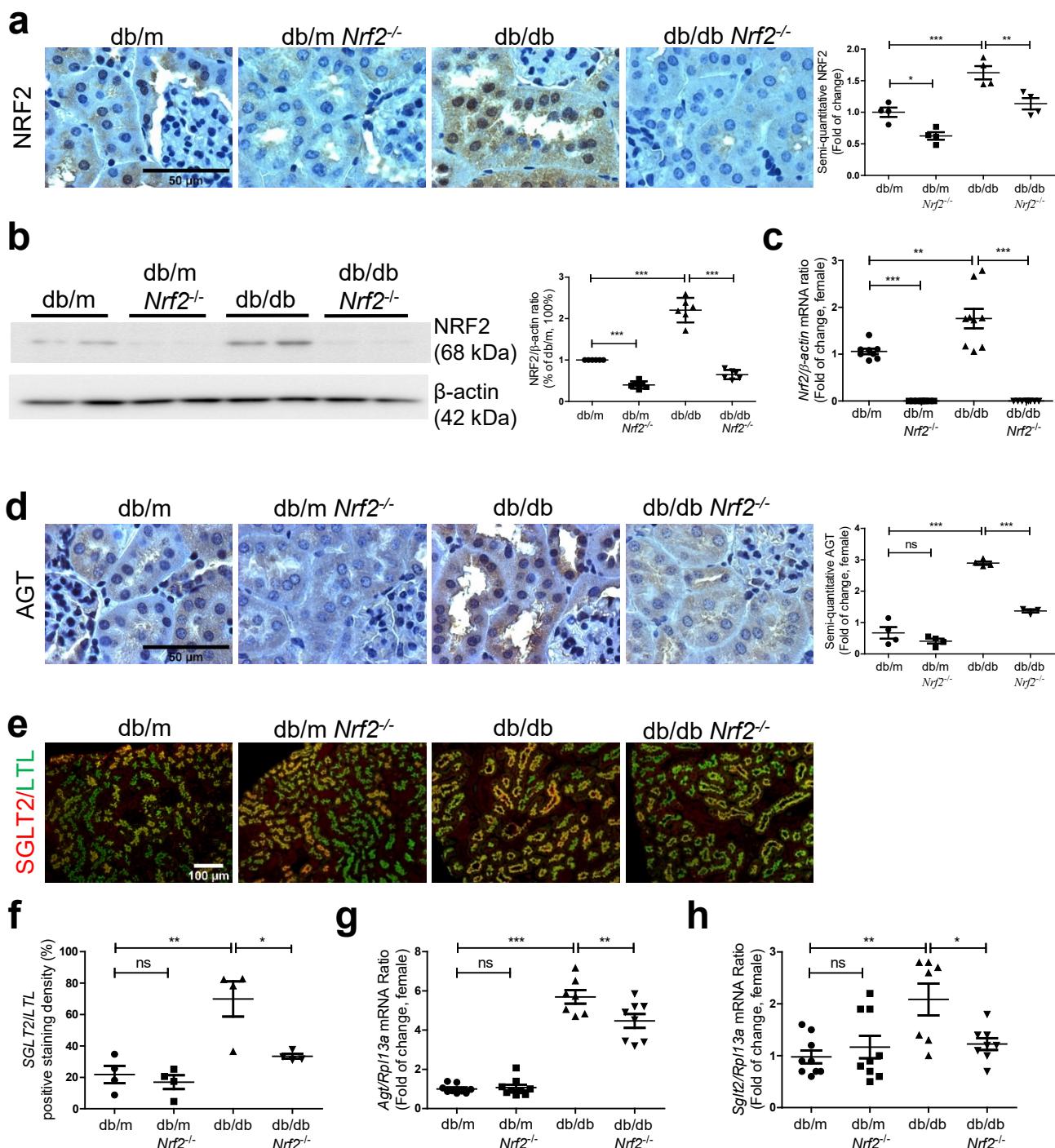
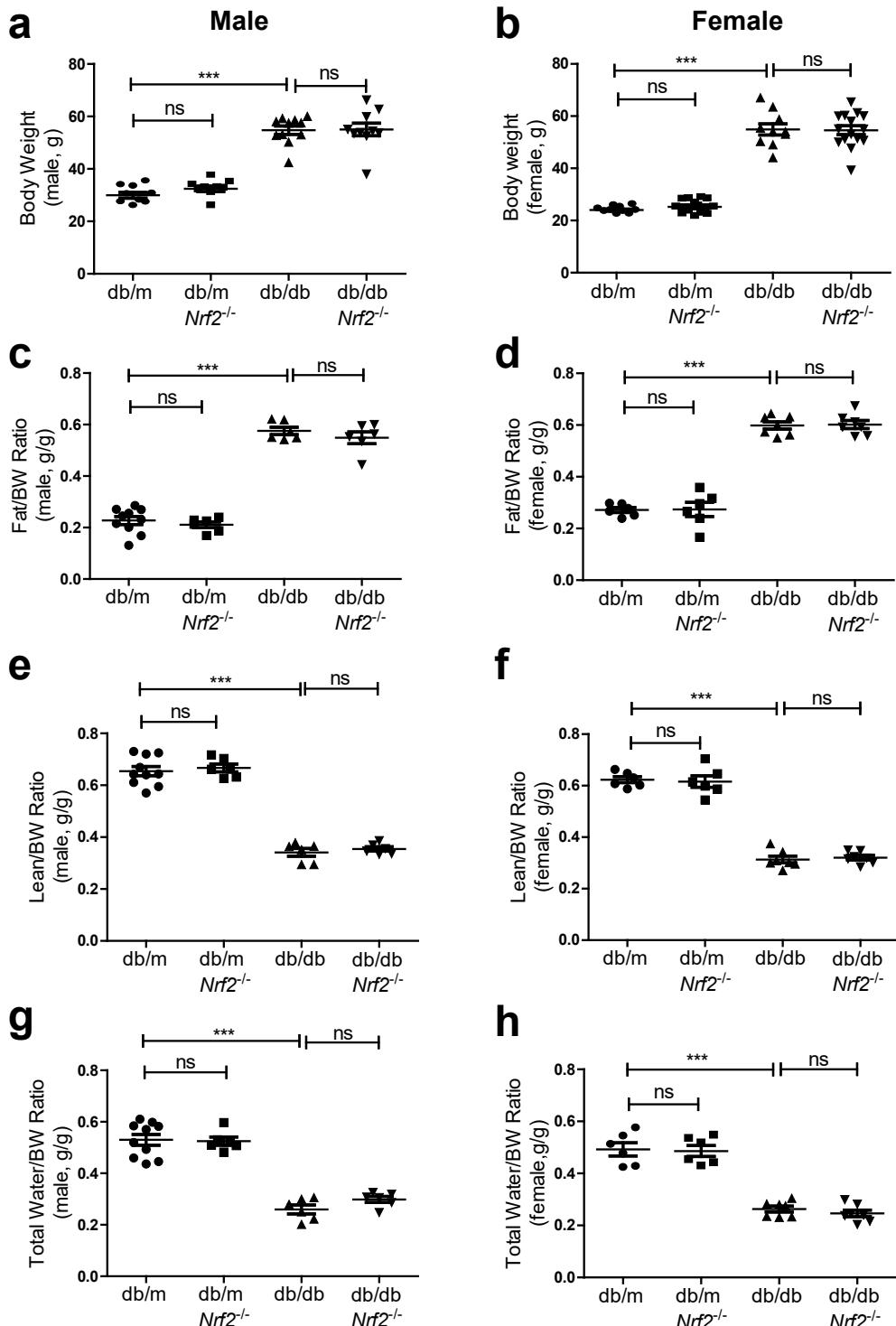


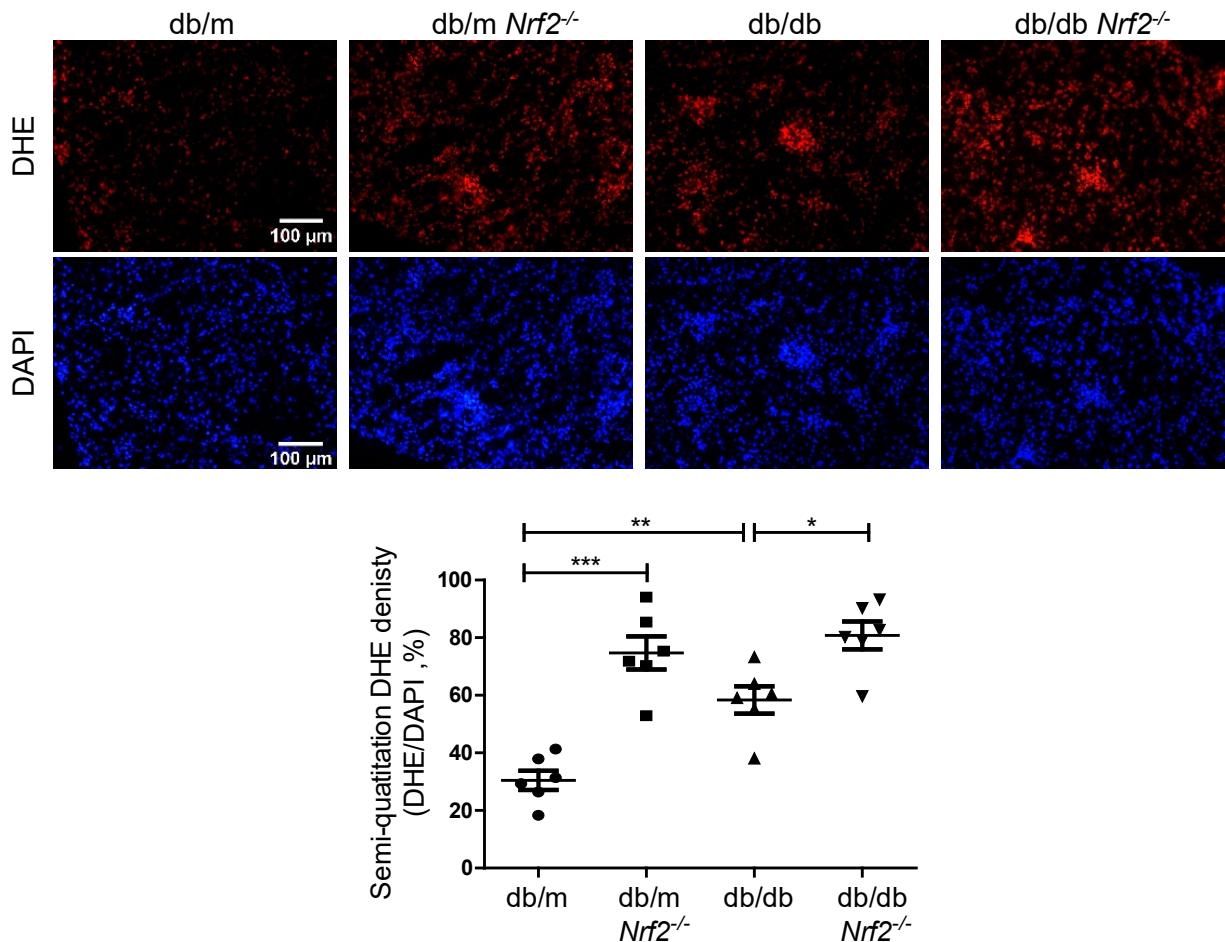
# Supplementary Figures



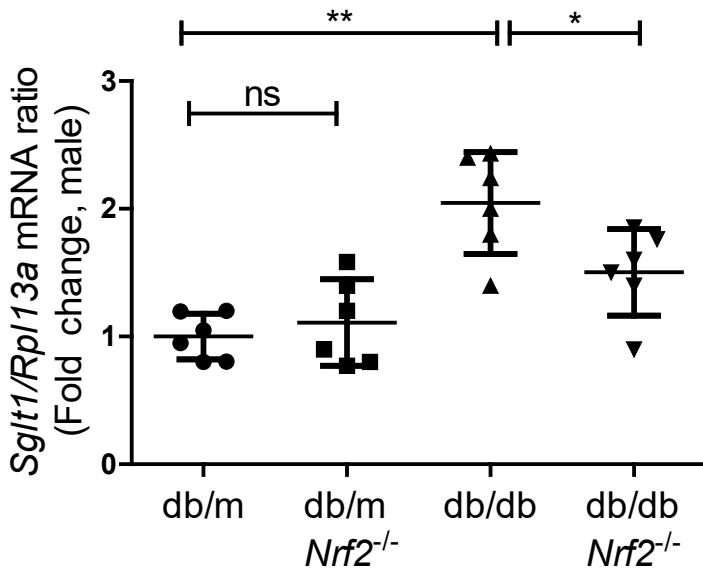
**Figure S1** *Nrf2*, Keap1, Agt and Sglt2 expression in female mouse kidneys



**Figure S2** Physiological parameters in male and female mice at 16 weeks of age.



**Figure S3** DHE and DAPI staining (x100) and semi-quantitation in kidney sections from male db/m, db/mNrf2 KO, db/db and db/dbNrf2 KO mouse kidneys at the age of 16 weeks. Values are expressed as mean  $\pm$  SEM, n=6 per group for staining. Statistics were done by one-way ANOVA, followed by Bonferroni post-hoc test. \*p<0.05; \*\*p<0.01; \*\*\*p<0.005 vs. db/m.



**Figure S4.** RT-qPCR analysis of Sglt1 mRNA levels in RPTs of male db/m, db/m*Nrf2* KO, db/db and db/db*Nrf2* KO mice at age 16 weeks (n=6 per group). Statistics were done by one-way ANOVA, followed by Bonferroni post-hoc test. \*p<0.05; \*\*p<0.01; \*\*\*p<0.005.

**Supplemental Table S1**  
Primary antibodies

Antibody (Host)	WB/IHC (Dilution)	Supplier	Cat#
NRF2 (mouse monoclonal)	WB(1:500);	Santa-Cruz	sc-365949
NRF2 (rabbit polyclonal)	IHC (1:400)	Abcam	ab36113
KEAP1 (rabbit polyclonal)	WB(1:2000); IHC (1:400)	Abcam	ab66620
AGT (rabbit polyclonal)	WB(1:2000); IHC (1:200)	Generated in our lab (1)	
HO-1	IHC (1:400) WB (1:2000)	ENZO	ADI-SPA-895-D
NOX4	IHC (1:400)	Abcam	ab109225
CATALASE	IHC (1:100)	Sigma-Aldrich	SAB5700937
SGLT2	IF (1:300) WB (1:1000)	Abcam Alomone	Ab85626 AGT-032
β-Actin (mouse Monoclonal)	WB (1:10000)	Sigma-Aldrich	A5441
CD36 (for mouse kidney)	IHC (1:200)	R&D Systems	AF2519
CD36 (for human kidney)	IHC (1:400) WB (1:1000)	Proteintech	18836-1-AP
FABP4 (for mouse kidney)	IF (1:400)	R&D Systems	AF1443
FABP4 (for human kidney)	IF (1:400)	R&D Systems	AF3150
LTL	IHC (1:200)	Invitrogen	L32480

(1) Wang L, Lei C, Zhang et al. Synergistic effect of dexamethasone and isoproterenol on the expression of angiotensinogen in immortalized rat proximal tubular cells. Kidney International 53:287-295, 1998.

**Supplemental Table S2**  
**Primers**

Gene (Species)	Sense and Anti-Sense Primers	Reference Sequence
Primers for genotyping		
Nrf2 (mouse genotyping)	Common-S: GCCTGAGAGCTGTAGGCC WT-AS: GGAATGGAAAATAGCTCCTGCC Mutant-AS: GACAGTATCGGCCTCAGGAA	NM_010902.3
Primers for RT-qPCR		
Nrf2 (mouse)	S: CGCCGCCTCACCTCTGCTGCCAGTAG AS: AGCTCATATACTCTCTGTCG	NM_010902.3
NRF2 (human)	S:ACACGGTCCACAGCTCATC AS:TGTCAATCAAATCCATGTCTG	NM_006164.5
Keap1 (mouse)	S: CATCCACCTAAGGTCAATGGA AS: GACAGGTTGAAGAACTCCTCC	NM_016679.4
Agt (mouse)	S: CCACGCTCTGGATTATC AS: ACAGACACCGAGATGCTGTT	NM_031144.3
AGT (human)	S:AACTGGTGTGCTGAAGGATCT AS:TCTCTCTCATCCGCTTAAG	NM_000029.3
Sglt2 (mouse)	S: TTGGTGTGGCTGTGGTCTAT AS:ATGTTGCTGGCGAACAGAGA	NM_133254.4
SGLT2 (human)	S:CTGTTGCAACCGTGTAACATGG AS:CCTGTCAACCGTGTAACATGG	NM_003041
RPL13a (mouse)	S:GCCCCACAAGACCAAGAGAG AS:TAGGCTTCAGCGAACAAACC	NM_009438.5
RPL13a (human)	S:GCCCTACGACAAGAAAAAGCG AS:TACTTCCAGCCAACCTCGTGA	NM_012423.3
CD36 (mouse)	S:GGAGCCATCTTGAGCCTCA AS:GAACCAAACCTGAGGAATGGATCT	NM_001159558.1
CD36 (human)	S:CTTGGCTTAATGAGACTGGGAC AS:GCAACAAACATCACCAACACCA	NM_001001547.3
Fabp4 (mouse)	S:AAGGTGAAGAGCATATAACCCCT AS:TCACGCCCTTCATAACACATTCC	NM_024406
HO-1(mouse)	S:GATAGAGCGCAACAAGCAGAA AS:CAGTGAGGCCCATACAGAAG	NM_010442
HO-1(human)	S:AAGACTGCGTTCTGCTCAAC AS:AAAGCCCTACAGCAACTGTCG	NM_002133
Catalase(mouse)	S:TGGCACACTTGACAGAGAGC AS:CCTTGCCCTGGAGTATCTGG	NM_009804
NOX4(mouse)	S:GAAGGGGTTAACACCTCTGC AS:ATGCTCTGCTTAAACACAATCCT	NM_015760.5
SGLT1(mouse)	S:CACCGAGGGCTGACTCATTC AS:TGATCCGTACACCAGTACCAAC	NM_019810