

S2 Table. Characteristics of *Nphs2-Cre*, *Tsc2<sup>flox/flox</sup>* and *Tsc2<sup>Δpodocyte</sup>* mice.

	3 week-old			5 week-old			7 week-old		
	<i>Nphs2-Cre</i>	<i>Tsc2<sup>flox/flox</sup></i>	<i>Tsc2<sup>Δpodocyte</sup></i>	<i>Nphs2-Cre</i>	<i>Tsc2<sup>flox/flox</sup></i>	<i>Tsc2<sup>Δpodocyte</sup></i>	<i>Nphs2-Cre</i>	<i>Tsc2<sup>flox/flox</sup></i>	<i>Tsc2<sup>Δpodocyte</sup></i>
Male mice									
Body weight (g)	19.5 ± 5.5	14.2 ± 5.4	15.4 ± 5.0	26.3 ± 3.0	28.8 ± 3.1	24.4 ± 4.9 <sup>b</sup>	34.7 ± 4.1	31.3 ± 2.7	29.5 ± 5.7 <sup>a</sup>
Fasting blood glucose (mg/dL)	116.9 ± 35.7	109.2 ± 30.7	121.2 ± 31.7	101.2 ± 18.4	132.6 ± 31.3	119.3 ± 24.9	107.8 ± 24.0	127.1 ± 22.2	108.8 ± 27.6
ACR (mg/g Cre)	35.8 ± 8.1	41.9 ± 13.8	608.0 ± 325.1 <sup>a,b</sup>	49.0 ± 18.2	54.6 ± 15.2	873.0 ± 488.0 <sup>a,b</sup>	59.2 ± 27.8	65.0 ± 34.4	764.1 ± 348.7 <sup>a,b</sup>
BUN (mg/dL)	27.1 ± 6.3	30.3 ± 10.2	24.7 ± 4.0	25.3 ± 6.3	25.7 ± 2.8	35.0 ± 12.0 <sup>a,b</sup>	27.5 ± 4.4	26.6 ± 6.7	138.5 ± 172.6 <sup>a</sup>
Serum Cre (mg/dL)	0.18 ± 0.10	0.14 ± 0.10	0.17 ± 0.10	0.19 ± 0.10	0.16 ± 1.00	0.25 ± 0.10	0.29 ± 0.10	0.28 ± 0.10	0.57 ± 0.30 <sup>a,b</sup>
Uric acid (mg/dL)	2.3 ± 1.6	1.3 ± 0.3	1.2 ± 0.5	1.6 ± 1.3	2.3 ± 2.1	1.3 ± 0.3	1.3 ± 0.1	1.7 ± 0.6	2.2 ± 2.0
TP (g/dL)	4.5 ± 0.4	4.2 ± 0.3	4.2 ± 0.4	4.8 ± 0.3	5.1 ± 0.4	4.6 ± 0.3 <sup>b</sup>	5.3 ± 0.4	5.4 ± 0.6	4.7 ± 0.6 <sup>a,b</sup>
ALB (g/dL)	2.5 ± 0.3	2.4 ± 0.3	2.3 ± 0.2	2.5 ± 0.2	2.6 ± 0.2	2.3 ± 0.2 <sup>b</sup>	2.5 ± 0.2	2.5 ± 0.2	1.7 ± 0.4 <sup>a,b</sup>
TC (mg/dL)	106.4 ± 35.0	93.6 ± 16.4	106.6 ± 26.6	134.5 ± 14.7	119.2 ± 8.9	157.0 ± 45.8 <sup>b</sup>	136.6 ± 24.8	116.8 ± 15.5	330.5 ± 145.3 <sup>a,b</sup>
TG (mg/dL)	97.9 ± 28.3	81.7 ± 31.5	89.4 ± 30.0	121.6 ± 35.7	96.4 ± 27.1	105.8 ± 44.0	112.4 ± 31.0	98.6 ± 42.3	186.2 ± 112.1 <sup>b</sup>
HDL-c (mg/dL)	49.0 ± 22.5	31.2 ± 7.1	43.3 ± 17.6	57.7 ± 12.3	47.8 ± 7.8	66.1 ± 23.9	73.1 ± 23.9	57.0 ± 12.8	120.9 ± 64.0 <sup>a,b</sup>
Na (mmol/L)	145.7 ± 3.9	143.9 ± 4.1	145.6 ± 2.2	144.4 ± 2.8	146.8 ± 2.7	142.7 ± 3.5 <sup>b</sup>	143.6 ± 1.8	146.6 ± 2.2	143.8 ± 6.9
K (mmol/L)	3.9 ± 0.6	4.1 ± 0.4	4.1 ± 0.4	4.6 ± 0.8	4.7 ± 0.6	4.6 ± 0.5	4.8 ± 0.5	4.8 ± 0.6	6.0 ± 1.7 <sup>a</sup>
Cl (mmol/L)	123.6 ± 5.7	116.1 ± 3.5	118.1 ± 5.5	122.4 ± 3.4	122.7 ± 2.6	121.4 ± 6.9	123.7 ± 2.4	124.5 ± 5.3	124.3 ± 9.4
Female mice									
Body weight (g)	16.7 ± 4.4	15.0 ± 6.1	12.5 ± 3.1	24.6 ± 4.0	19.8 ± 1.7 <sup>a</sup>	21.8 ± 2.6	24.9 ± 2.7	23.6 ± 2.2	22.9 ± 4.1
Fasting blood glucose (mg/dL)	118.5 ± 23.1	98.9 ± 27.8	110.5 ± 37.3	78.2 ± 10.2	73.9 ± 11.0	93.5 ± 19.8 <sup>b</sup>	82.9 ± 17.2	95.3 ± 29.0	104.4 ± 30.6
ACR (mg/g Cre)	40.8 ± 12.0	40.6 ± 31.3	464.1 ± 244.1 <sup>a,b</sup>	46.8 ± 14.8	25.4 ± 9.1	515.2 ± 304.3 <sup>a,b</sup>	32.2 ± 16.6	31.1 ± 17.5	531.7 ± 695.3 <sup>a,b</sup>
BUN (mg/dL)	36.2 ± 10.5	33.9 ± 11.1	42.9 ± 14.3	20.7 ± 4.6	24.8 ± 6.3	56.0 ± 63.3	25.3 ± 8.8	21.0 ± 2.7	158.9 ± 120.7 <sup>a,b</sup>
Serum Cre (mg/dL)	0.19 ± 0.09	0.14 ± 0.05	0.13 ± 0.04 <sup>a</sup>	0.19 ± 0.09	0.15 ± 0.07	0.26 ± 0.08 <sup>a,b</sup>	0.23 ± 0.08	0.23 ± 0.09	0.55 ± 0.30
Uric acid (mg/dL)	1.3 ± 0.3	1.4 ± 0.3	1.3 ± 0.4	1.26 ± 0.3	1.8 ± 1.0	1.3 ± 0.4	1.7 ± 0.6	1.6 ± 0.3	1.5 ± 1.9
TP (g/dL)	4.4 ± 0.7	4.5 ± 0.4	3.9 ± 0.3 <sup>b</sup>	4.72 ± 0.4	4.9 ± 0.5	4.4 ± 0.2 <sup>b</sup>	4.9 ± 0.4	5.2 ± 0.3	4.8 ± 0.8
ALB (g/dL)	2.5 ± 0.3	2.5 ± 0.2	2.1 ± 0.3 <sup>a,b</sup>	2.58 ± 0.2	2.7 ± 0.3	2.2 ± 0.3 <sup>a,b</sup>	2.6 ± 0.2	2.9 ± 0.1	1.5 ± 0.3 <sup>a,b</sup>
TC (mg/dL)	88.8 ± 15.4	82.9 ± 8.3	100.4 ± 60.2	94.5 ± 15.4	88.4 ± 9.3	148.5 ± 55.3 <sup>a,b</sup>	91.9 ± 12.8	92.4 ± 8.8	346.0 ± 116.6 <sup>a,b</sup>
TG (mg/dL)	51.8 ± 16.0	64.6 ± 21.7	53.9 ± 26.7	110.2 ± 21.0	104.6 ± 31.6	100.3 ± 30.6	120.3 ± 36.6	109.0 ± 25.1	185.7 ± 117.0
HDL-c (mg/dL)	30.5 ± 8.6	26.3 ± 4.4	36.3 ± 27.4	35.6 ± 14.3	27.3 ± 3.0	71.6 ± 36.1 <sup>a,b</sup>	36.1 ± 7.0	29.9 ± 5.5	148.8 ± 43.6 <sup>a,b</sup>
Na (mmol/L)	144.7 ± 2.6	143.1 ± 4.3	142.5 ± 3.1	143.4 ± 3.7	143.3 ± 2.8	145.8 ± 2.7	145.3 ± 2.4	143.5 ± 4.1	142.9 ± 6.5
K (mmol/L)	4.3 ± 0.5	4.7 ± 0.7	4.4 ± 0.5	4.07 ± 0.5	4.6 ± 0.6	4.5 ± 0.4	4.4 ± 0.7	4.7 ± 0.6	5.6 ± 1.0 <sup>a,b</sup>
Cl (mmol/L)	118.1 ± 4.8	117.6 ± 4.5	116.6 ± 6.4	121.6 ± 5.7	117.8 ± 4.0	121.9 ± 5.2	120.4 ± 4.4	119.9 ± 1.7	122.4 ± 8.0

Data are expressed as mean ± SD (*n* =10). Analysis of variance was used between groups; and multiple testing corrections were performed using the Tukey's method. ACR, urine albumin to creatinin; BUN, blood urea nitrogen; Cre, creatinine; TP, total protein; ALB, alubumin; TC, total cholesterol; TG, triglyceride; HDL-c, high density lipoprotein-cholesterol. <sup>a</sup>*P* < 0.05 vs. *Nphs2-Cre*, <sup>b</sup>*P* < 0.05 vs. *Tsc2<sup>flox/flox</sup>*.