

**Supplementary Table S1. Demographic and clinical features of PD patients.**

Patient	Sex	Age (years)	Cause of kidney failure	Diabetes	Hypertension	Months on PD	PD technique	Exchanges	Glucose (mg/dL)	Peritonitis	Hemoperitoneum	Escapes
1	M	57	T1DM	Yes	Yes	56	CCPD	20 L/24 h	1815	No	No	No
2	M	77	Unknown	No	Yes	5	CAPD	1	1360	No	No	No
3	F	65	ADPKD	No	Yes	11	CAPD	1	2270	No	No	No
4	F	29	Extracapillary FGN	No	Yes	3	CAPD	1	2270	No	No	No

M: male; F: female; T1DM: type 1 diabetes mellitus; ADPKD: autosomal dominant polycystic kidney disease; FGN: fibrillary glomerulonephritis; CCPD: Continuous cyclic peritoneal dialysis; CAPD: Continuous ambulatory peritoneal dialysis.

**Supplementary Table S2. Pre-designed assays used for qPCR.**

<b>Specie</b>	<b>Gene</b>	<b>Assay ID</b>	<b>Company</b>
Mouse	<i>Ccl2</i>	Mm.PT.58.42151692	Integrated DNA Technologies
Mouse	<i>Ccl5</i>	Mm.PT.58.43548565	Integrated DNA Technologies
Mouse	<i>Ccl8</i>	Mm01297183_m1	Applied Biosystems
Mouse	<i>Cxcl10</i>	Mm.PT.58.43548565	Integrated DNA Technologies
Mouse	<i>Il1b</i>	Mm.PT.58.41616450	Integrated DNA Technologies
Mouse	<i>Tnfa</i>	Mm00443258_m1	Applied Biosystems
Mouse	<i>Snai1</i>	Mm00441533_g1	Applied Biosystems
Mouse	<i>Cdh2</i>	Mm.PT.58.12378183	Integrated DNA Technologies
Mouse	<i>Acta2</i>	Mm.PT.58.16320644	Integrated DNA Technologies
Mouse	<i>Nox1</i>	Mm.PT.58.29694286	Integrated DNA Technologies
Mouse	<i>Nox4</i>	Mm.PT.58.8820983	Integrated DNA Technologies
Mouse	<i>Ppargc1a</i>	Mm.PT.58.16192665	Integrated DNA Technologies
Mouse	<i>Nfe2l2</i>	Mm.PT.58.29108649	Integrated DNA Technologies
Mouse	<i>Cat</i>	Mm.PT.58.12825133	Integrated DNA Technologies
Mouse	<i>Hmox1</i>	Mm.PT.58.8600055	Integrated DNA Technologies
Mouse	<i>Sod1</i>	Mm.PT.58.12368303	Integrated DNA Technologies
Mouse	<i>Sod2</i>	Mm.PT.58.14276358	Integrated DNA Technologies
Mouse	<i>Gapdh</i>	Mm99999915_g1	Applied Biosystems
Human	<i>CCL2</i>	Hs.PT.58.45467977	Integrated DNA Technologies
Human	<i>CCL5</i>	Hs.PT.58.1724551	Integrated DNA Technologies
Human	<i>IL1B</i>	Hs.PT.58.1518186	Integrated DNA Technologies
Human	<i>IL6</i>	Hs.PT.58.40226675	Integrated DNA Technologies
Human	<i>SNAI1</i>	Hs.PT.58.2984401	Integrated DNA Technologies
Human	<i>CDH2</i>	Hs.PT.58.26024443	Integrated DNA Technologies
Human	<i>CCN2</i>	Hs.PT.58.14485164.g	Integrated DNA Technologies
Human	<i>VIM</i>	Hs00185584_g1	Applied Biosystems
Human	<i>FN1</i>	Hs.PT.58.40005963	Integrated DNA Technologies
Human	<i>COL1A1</i>	Hs.PT.58.15517795	Integrated DNA Technologies
Human	<i>ACTA2</i>	Hs.PT.56a.2542642	Integrated DNA Technologies
Human	<i>NOX1</i>	Hs.PT.58.381842	Integrated DNA Technologies
Human	<i>NOX4</i>	Hs.PT.58.3866448	Integrated DNA Technologies
Human	<i>NFE2L2</i>	Hs.PT.58.28159373	Integrated DNA Technologies
Human	<i>CAT</i>	Hs.PT.56a.25069031	Integrated DNA Technologies
Human	<i>HMOX1</i>	Hs.PT.58.45340055	Integrated DNA Technologies
Human	<i>SOD1</i>	Hs.PT.58.20593019	Integrated DNA Technologies
Human	<i>SOD2</i>	Hs.PT.58.25533008	Integrated DNA Technologies
Human	<i>GAPDH</i>	Hs02786624_g1	Applied Biosystems