

Human Pluripotent Stem Cell Derived Kidney Model for Nephrotoxicity Studies

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Legend for figures:

Supplementary Figure 1: qPCR showing the expression levels of 24 renal specific transporters from both the ABC- and SLC-family relative to freshly isolated PTCs from three-donors by extending the final maturation phase from 7 days to 14 days. (A) 9 days (B) 11 days (C) 14 days. Each data point was generated from at least three independent experiments. Data is presented as mean \pm minimum/maximum ($n = 3$).

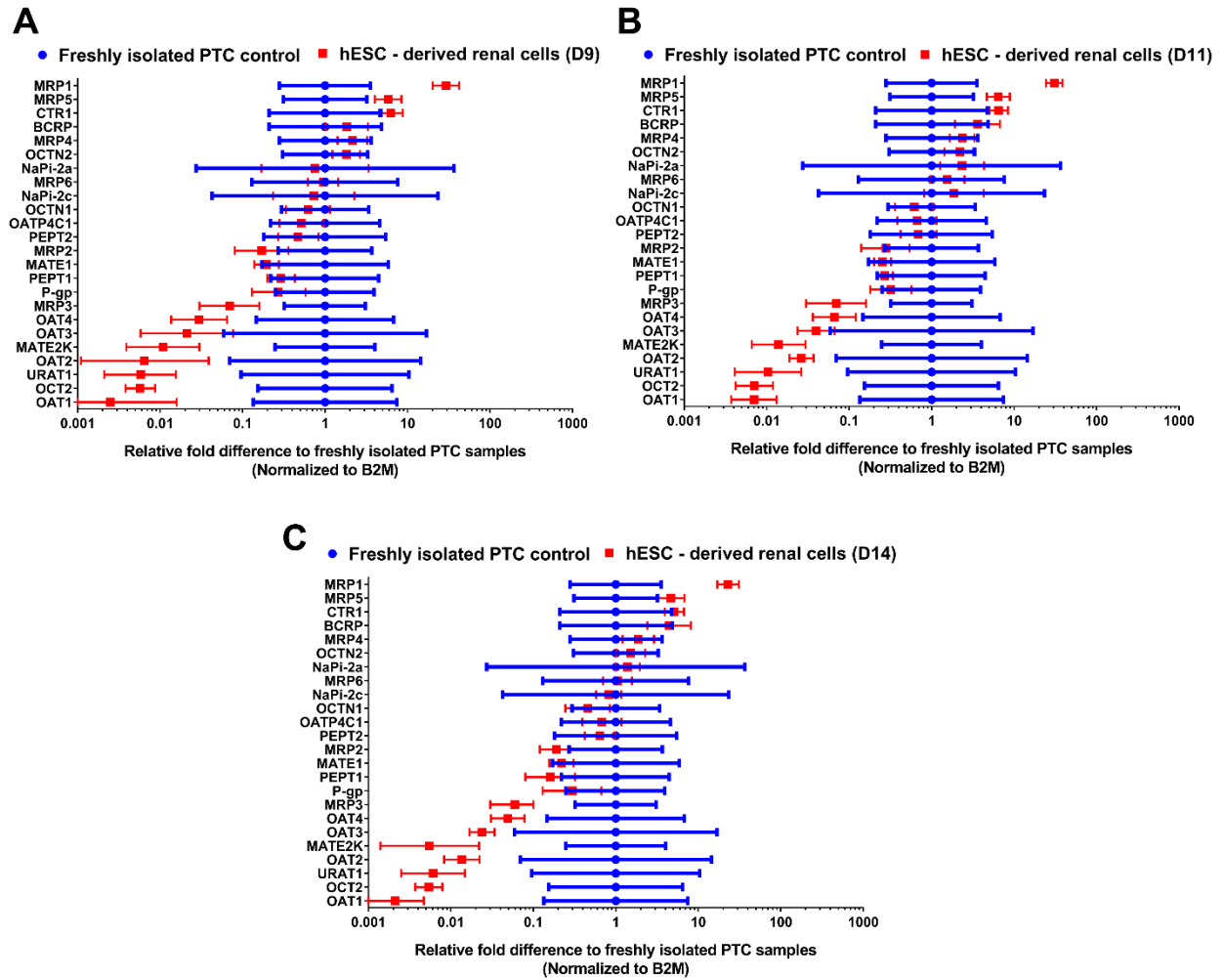
Supplemental table 1: TaqMan primers and their assay ID used in the study.

Gene name	TaqMan assay ID
T (Brachury)	Hs00610080_m1
MIXL1	Hs04400364_m1
PAX2	Hs010574416_m1
LHX1	Hs00232144_m1
OSR1	Hs01586544_m1
SIX2	Hs00232731_m1
HOXD11	Hs00360798_m1
SALL1	Hs01548765_m1
CITED1	Hs00918448_m1
HOXB7	Hs04187556_m1
GDNF	Hs00181185_m1
FOXD1	Hs00270117_s1
PAX8	Hs00247586_m1
CHD16(KSP)	Hs00187880_m1
AQP1	Hs01028916_m1
ANEP(CD13)	Hs00174265_m1
CUBN	Hs00153607_m1
LRP2(Megalin)	Hs00189742_m1
CDH1(ECAD)	Hs01089742_m1
CDH2(NCAD)	Hs00983056_m1
WT1	Hs01103751_m1
SYNPO	Hs00200768_m1
NPHS1(Nephrin)	Hs00190446_m1
NPHS2(Podocin)	Hs00387817_m1
PODXL	Hs01574644_m1
CD2AP	Hs00961458_m1
GATA3	Hs00231122_m1
PECAM1	Hs01065279_m1
KDR1	Hs00911700_m1
GUSB	4326320E
B2M	4326319E
GAPDH	4326317E

Gene name	Common name	TaqMan assay ID
ABCC1	MRP1	Hs01561483_m1
ABCC2	MRP2	Hs00960489_m1
ABCC3	MRP3	Hs00978452_m1
ABCC4	MRP4	Hs00988721_m1
ABCC5	MRP5	Hs00981089_m1
ABCC6	MRP6	Hs01077866_m1
ABCB1	P-gp	Hs00184500_m1
ABCG2	BCRP	Hs01053790_m1
SLC15A1	PEPT1	Hs00192639_m1
SLC15A2	PEPT2	Hs01113665_m1
SLC22A2	OCT2	Hs01010726_m1
SLC22A4	OCTN1	Hs00268200_m1
SLC22A5	OCTN2	Hs00929869_m1
SLC22A6	OAT1	Hs00537914_m1
SLC22A7	OAT2	Hs00198527_m1
SLC22A8	OAT3	Hs00188599_m1
SLC22A11	OAT4	Hs00945829_m1
SLC22A12	URAT1	Hs01030727_m1
SLCO4C1	OATP4C1	Hs00698884_m1
SLC47A1	MATE1	Hs00217320_m1
SLC47A2	MATE2K	Hs00945650_m1
SLC31A1	CTR1	Hs00741015_m1
SLC34A1	NaPi2a	Hs00161828_m1
SLC34A3	NaPi2c	Hs02341449_m1

Supplemental table 2: Donor information for the adult, fetal, and control PTC samples used for comparison in the study.

Sample name	Company	Product number	Lot number	Gender	Age	Race
Adult kidney	Invitrogen	AM7979	1676404	Female	62	Hispanic
Fetal kidney	Clontech	636584	1412044	4 pooled; Male+Female	21- 40 week	Asian
Control PTC-1	IVAL	HRPTC5105	-	Female	42	Caucasian
Control PTC-2	IVAL	HRPTC5108	-	Male	56	Caucasian
Control PTC-3	IVAL	HRPTC5109	-	Male	65	Caucasian



Supplementary Figure 1