

Cell line Name	Allele designation	Type of allele	Human gene (HGNC)	Genetic background	Tubule Origin	Strengths	Weakness
Murine inducible immortalized ADPKD cell line models							
Immorto -Pkd2 ^{fl/fl} , Pax8 ^{rtTA-Cre} Pkd2 ^{fl/fl} , Pax8 ^{rtTA-Cre} clone #125		conditional allele	PKD2	C57BL/6J x immort mouse	medullary- IMCD	Murine cell line with inducible knock out of PKD2. Well characterized, isogenic model useful for studying the relatively rapid (3-6 days post induction) consequences of Pkd2 KO.	Not Human. Knock out of both copies of the Pkd allele is not a common in human PKD. Immortalization may have offtarget effects, although SV40 is turned off at nonpermissive temperature
Immorto -Pkd1 ^{fl/fl} , Pax8 ^{rtTA-Cre} Pkd1 ^{fl/fl} , Pax8 ^{rtTA-Cre} clone #199		conditional allele	PKD1	C57BL/6J x immort mouse	Proximal?	Murine cell line with inducible knock out of PKD1. Partially characterized, isogenic model useful for studying the relatively rapid (3-6 days post induction) consequences of Pkd1 KO.	Not Human. Knock out of both copies of the Pkd allele is not a common in human PKD. Immortalization may have offtarget effects, although SV40 is turned off at nonpermissive temperature
Murine inducible Primary ADPKD cell lines with mTmG reporter							
Primary -Pkd2 ^{fl/fl} , Pax8 ^{rtTA-Cre} , mTmG	Pkd2 ^{fl/fl} , Pax8 ^{rtTA-Cre} , mTmG	conditional allele	PKD2	C57BL/6J		These cells are derived from mTmG mice crossed with mice harboring floxed Pkd2 and Pax8 ^{rtTA-Cre} System, allowing for Dox induced Pkd KO. These primary cells may be useful for 2D and 3D tubuloid models.	Primary murine cells with limited passage and potential. Heterogenous Cells with inducible knock out of both copies of the Pkd allele - a condition not common in human PKD.
Primary -Pkd1 ^{fl/fl} , Pax8 ^{rtTA-Cre} , mTmG	Pkd1 ^{fl/fl} , Pax8 ^{rtTA-Cre} , mTmG	conditional allele	PKD1	C57BL/6J		These cells are derived from mTmG mice crossed with mice harboring floxed Pkd1 and Pax8 ^{rtTA-Cre} System, allowing for Dox induced Pkd KO. These primary cells may be useful for 2D and 3D tubuloid models.	Primary murine cells with limited passage and potential. Heterogenous Cells with inducible knock out of both copies of the Pkd allele - a condition not common in human PKD.
Murine immortalized cilia/ cystic cell line models							
BY9827	Itf88 ^{lox/lox}	conditional allele	IFT88	unsure of strain but X immort mouse	Mixed Kidney Cells	Conditional allele of Itf88 in mixed kidney cells. Deletion induced by transfection of Cre. Temperature sensitive conditional immortalization using ImmortoMouse. Deletion of primary cilia.	Not orthologous allele for human PKD. Requires addition of Cre to delete Itf88. Still mixed cell types.
BY2574	IFT88, CAGGcreER, SV40	conditional allele	IFT88	unsure of strain but X immort mouse	Distal (CD)	Mouse conditional epithelial cell line lacking Itf88. Temperature sensitive conditional immortalization using ImmortoMouse. Deletion of primary cilia upon addition of 4-OH tamoxifen.	Not orthologous allele for human PKD. For control use non-tamoxifen treated cells.
BY1106	IFT88 delta/delta; CAGGcreER; SV40	null allele	IFT88	unsure of strain but X immort mouse	REC	Mouse conditional epithelial cell line lacking Itf88. Temperature sensitive conditional immortalization using ImmortoMouse. Deletion of primary cilia.	Not orthologous allele for human PKD. For control need to transfect in Itf88 to restore cilia formation.
BY1107	IFT88 delta/delta; CAGGcreER; SV40	null allele	IFT88	unsure of strain but X immort mouse	REC	Mouse conditional epithelial cell line lacking Itf88. Temperature sensitive immortalization. Temperature sensitive conditional immortalization using ImmortoMouse. Deletion of primary cilia.	Not orthologous allele for human PKD. For control need to transfect in Itf88 to restore cilia formation.