

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 -Pkd2fl/fl, Pax8rtTA-Cre Pkd2fl/fl, Pax8rtTA-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 -Pkd1fl/fl, Pax8rtTA-Cre Pkd1fl/fl, Pax8rtTA-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
Pkd1V/V DBA clone #21	Pkd1V/V	knock-in	PKD1	C57BL/6J x immort mouse	Distal (CD)?	Partially characterized model with knock -in of allele. These cells may be useful for studying the consequences of Pkd1 Pkd1 V/V.	Not Human. Murine cell line with non- the Pkd1 V/V isogenic controls and the potential for significant clonal differences. Immortalization cleavage mutant may have offtarget effects, although SV40 is turned off at nonpermissive temperature
WT DBA clone #12	WT			C57BL/6J x immort mouse	Distal (CD)?	Partially characterized control model selected to provide the WT controls for the Pkd1V/V knock-in cell line.	Not Human. Murine cell line with non- isogenic controls and the potential for significant clonal differences. Immortalization may have offtarget effects, although SV40 is turned off at nonpermissive temperature
Murine inducible Primary ADPKD cell lines with mTmG reporter							
Primary -Pkd2fl/fl, Pax8rtTA-Cre, mTmG	Pkd2fl/fl, Pax8rtTA-Cre, mTmG	conditional allele	PKD2	C57BL/6J		These cells are derived from mTmG mice harboring floxed Pkd2 and potential. Heterogenous. Cells with inducible Pax8rtTA-Cre System. These primary cells knock out of both copies of the Pkd allele - a may be useful for 2D and 3D tubuloid models, condition not common in human PKD and have an mTmG reporter to visualized Cre activity.	Primary murine cells with limited passage crossed with mice with inducible Pax8rtTA-Cre System. These primary cells knock out of both copies of the Pkd allele - a may be useful for 2D and 3D tubuloid models, condition not common in human PKD and have an mTmG reporter to visualized Cre activity.
Primary -Pkd1fl/fl, Pax8rtTA-Cre, mTmG	Pkd2fl/fl, Pax8rtTA-Cre, Cre, mTmG	conditional allele	PKD1	C57BL/6J		These cells are derived from mTmG mice harboring floxed Pkd2 and potential. Heterogenous. Cells with inducible Pax8rtTA-Cre System. These primary cells knock out of both copies of the Pkd allele - a may be useful for 2D and 3D tubuloid models, condition not common in human PKD and have an mTmG reporter to visualized Cre activity.	Primary murine cells with limited passage crossed with mice with inducible Pax8rtTA-Cre System. These primary cells knock out of both copies of the Pkd allele - a may be useful for 2D and 3D tubuloid models, condition not common in human PKD and have an mTmG reporter to visualized Cre activity.
Murine immortalized cilia/ cystic cell line models							
BY176-6C	Kif3a, CAGGcreER, SV40	conditional allele	Kif3a	unsure of strain but X immort mouse	Distal (CD)	Mouse tamoxifen inducible Kif3a cKO (temperature sensitive) kidney epithelial cell line. Isogenic tool to aid in understanding the role of the primary cilium in PKD	Not ADPKD but Parent mice have cystic phenotype; Not Human, SV40 Lg T Immortalization may have offtarget effects, although SV40 is turned off at nonpermissive temperature
BY2574	IFT88, CAGGcreER, SV40	conditional allele	IFT88	unsure of strain but X immort mouse	Distal (CD)	Mouse tamoxifen inducible IFT88 cKO (temperature sensitive) kidney epithelial cell line. Isogenic tool to aid in understanding the role of the primary cilium in PKD	Not ADPKD but parent mice have Cystic phenotype; Not Human, SV40 Lg T Immortalization may have offtarget effects, although SV40 is turned off at nonpermissive temperature
BY1106	IFT88, SV40	conditional allele	IFT88	unsure of strain but X immort mouse	REC	Because these cells do not express Cre, they provide a control for BY2574	Although not isogenic to BY2574, they allow to test tamoxifen.
BY1107	IFT88, SV40	conditional allele	IFT88	unsure of strain but X immort mouse	REC	Because these cells do not express Cre, they provide a control for BY2574	Although not isogenic to BY2574, they allow to test tamoxifen.