

Mandy Croyle

Mouse Strain DatasheetStrain Name

Ift88 flox

MGI Gene ID	MGI:3710185	
Full Allele Name	Ift88 <tm1bky></tm1bky>	
Type of Allele	conditional allele	Cysts
Human Gene (HGNC)	IFT88	Ureter
Genetic Background	C57BL/6J	Polycystic kidney
Commercial Source	Jax Mice	Image from NIDDK/NIH
Stock Number	022409	Healthy kidne
Link	https://www.jax.org/strain/02240	09
Genotyping Protocol	nttps://www.jax.org/Protocol?stockNumber=0224	409&protocolID=24348
Strain Details		
Cre recombinase results in excis	oxP¬sites flanking exons 4-6 of the intraflagella ion of these exons and generation of a null alleles. Homozygous fl/fl mice are viable and fertile.	e. This strain may be useful for studying
Validation or publicatio	n	
https://pubmed.ncbi.nlm.nih.gov/	17166921/	
Contact Name	Email	

pydnam@uab.edu

PCR Protocol for Genotyping: Ift88 flox

A. Digestion of mouse tail or ear notch, and embryo tail (in red):

- 1. Add 100μL of Tissue Digestion Buffer and 2μL of Proteinase K per tail (~1-2mm length). For embryos tail add 50μL of Tissue Digestion Buffer and 1μL of Proteinase K. Make sure tail is immersed in the buffer.
- 2. In a thermocycler incubate at 55°C for 1 h followed by 95°C for 8 min to inactivate the enzyme and hold at 10°C. For embryos incubate at 55°C for 30 min followed by 95°C for 8 min and hold at 10°C.
- 3. Vortex and store at 4°C (-20°C for long storage) or use immediately to set up the PCR.

B. PCR Genotyping Protocol

Primers			
Common forward	5'-	GCCTCCTGTTTCTTGACAACAGTG	-3'
delta reverse	5'-	CTGCACCAGCCATTTCCTCTAAGTCATGTA	-3'
flox/WT reverse	5'-	GGTCCTAACAAGTAAGCCCAGTGTT	-3'
	5'-		-3'

PCR Reaction		PCR Conditions		
BioMix	10.0 μL	Heated Lid		105°C
(Bioline)				
Primers	0.8 µL	Initial Denaturation	94°C	5 min
(@10 μM each)		Number of Cycles	x35	
_{dd} H ₂ O	7.2 µL		94°C	20 sec
001 120	7.2 μι		60°C	35 sec
DNA template	2.0 µL		72°C	35 sec
Total Volume	20.0 μL	Final Extension	72°C	10 min
		Final Hold	10°C	

PCR Product Size (bp)			
Wild type band	350 bp		
flox	370 bp		
delta	270 bp		

C. Reagents

Reagent	Cat #	Final Concentration	Working Concentration
Tissue Digestion Buffer for			
Tris pH8.5		50mM	
EDTA		1mM	
Tween20		0.5%	
Proteinase K (Invitrogen)	25530-015	20mg/mL	
BioMix (Bioline)	BIO-25012		



Contact Name

Patricia Outeda

Mouse Strain Datasheet Strain Name

Tam-Cre; CAGGCre-ER Tam-Cre; CAGGCre-ER

MGI Gene ID	MGI:2182767	
Full Allele Name	Tg(EAG-EFE/ESF1*)5AM8	
Type of Allele	Inducible (Recombinase)	Cysts
Human Gene (HGNC)	R/a	Ureter
Genetic Background	E57BL/6J	Polycystic kidney
Commercial Source	Jax Mise	Image from NIDDK/NIH Healthy kidney
Stock Number	4682	Treatily Nuriey
Link	https://www.jax.org/strain/004682	
Genotyping Protocol	https://www.jax.org/Protocol?stockNumber≡004682&	Br8t888IIB≡19114
Strain Details		
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Validation or publication	on	
https://pubmed.ncbi.nlm.nih.gov	/11944939/	

Email

pgarcia@som:umaryland:edu

PCR Protocol for Genotyping: Tam-Cre; CAGGCre-ER

A. Digestion of mouse tail or ear notch, and embryo tail (in red):

- 1. Add 100μL of Tissue Digestion Buffer and 2μL of Proteinase K per tail (~1-2mm length). For embryos tail add 50μL of Tissue Digestion Buffer and 1μL of Proteinase K. Make sure tail is immersed in the buffer.
- 2. In a thermocycler incubate at 55°C for 1 h followed by 95°C for 8 min to inactivate the enzyme and hold at 10°C. For embryos incubate at 55°C for 30 min followed by 95°C for 8 min and hold at 10°C.
- 3. Vortex and store at 4°C (-20°C for long storage) or use immediately to set up the PCR.

B. PCR Genotyping Protocol

Primers			
ForwardForward	5'-	ATT GCT GTC ACT TGG TCG TGG C	-3'
ReverseReverse	5'-	GGA AAA TGC TTC TGT CCG TTT GC	-3'
	5'-		-3'
	5'-		-3'

PCR Reaction		PCR Conditions		
BioMix	10.0 μL	Heated Lid		105°C
(Bioline)				
Primers	0.8 µL	Initial Denaturation	94°C	5 min
(@10 µM each)		Number of Cycles	x35	
_{dd} H ₂ O	7.2 µL		94°C	20 sec
001 120	7.2 μι		5656 °C	35 sec
DNA template	2.0 µL		72°C	35 sec
Total Volume	20.0 μL	Final Extension	72°C	10 min
		Final Hold	10°C	

PCR Product Size (bp)			
Wild type band			
Cre Ban@re Band	200 bp		

C. Reagents

Reagent	Cat #	Final Concentration	Working Concentration
Tissue Digestion Buffer for	ear notch or tail		
Tris pH8.5		50mM	
EDTA		1mM	
Tween20		0.5%	
Proteinase K (Invitrogen)	25530-015	20mg/mL	
BioMix (Bioline)	BIO-25012		