GENOTYPING BY PCR PROTOCOL
MUTANT MOUSE REGIONAL RESOURCE CENTER: UC DAVIS

mmrrc@ucdavis.edu
530-754-MMRRC

Please provide the following information required for genetic analysis of your mutant mice.

Note to MAC users: to ensure your graphic can be viewed on a PC please follow the steps below when inserting the graphic into this document. DO NOT drag and drop or copy/paste the graphic into this document.

- *Open the original graphic in the program that created it*
- *Choose File, Save As*
- *Select No Compression in the save options.*
- *Save as JPG or PNG or similar format that's compatible with both PC and Mac Word versions.*
- *Switch to Word, choose Insert, Picture, From File and choose the newly saved picture.*

These instructions are very generic. The menu options for your graphics program may be different.

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Telephone (415)476-7872	FAX (415)476-7884	
Strain Name **953-CreER-IRES-GFP**	MMRRC Stock Number **37571**	

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NAME OF PCR: 953-CreER-IRES-GFP **MMRRC:** 37571

Protocol: ***(PCR protocol provided by Donating Investigator)***

Reagent/Constituent	Volume (µL)
2x Buffer – GoTaq Green Master Mix (Promega) Contains:	6
$MgCl_2$ 3mM	
Proprietary compound that increases sample density	
dNTPs 400 µM	
Yellow and Blue Dyes	
Bacterially derived Taq DNA Polymerase	
Primer Mix (1.25 µM of each primer in water)	5
Primer 1 Name: 953.F	
Primer 2. Name: CreER.R	
DNA From Tail Digest (2mm tail digested with protinase K and diluted to a final volume of 200 ul)	1
The total volume is auto-calculated based on volumes entered, right click the total and update field to show/recalculate the total volume. **TOTAL VOLUME OF REACTION:**	**12 µL**

Comments on protocol:

Strategy:

Steps	Temp (ºC)	Time (m:ss)	# of Cycles
1. Initiation/Melting HOT START? ☐	94	5min	**1**
2. Denaturation	94	1 min	
3. Annealing steps 2-3-4 cycle in sequence	58	1 min	34**x**
4. Elongation	72	1 min	
5. Amplification	72	10min	**1**
6. Finish	16	∞	n/a

Primers:

Name	Nucleotide Sequence (5' - 3')
1.	
2. 953.F	GCG AAG TCA GCA CCA ACA TA
3. CreER.R	AGTGCTGCCTCTGACCTCAT
4.	
5.	

Electrophoresis Protocol:

Agarose: 1% V:120

Estimated Running:Time: 30 min.

Primer Combination	Band	Genotype
953.F/ CreER.R	486 bp	KO or MT/-
953.F/ CreER.R	No Band	WT +/+

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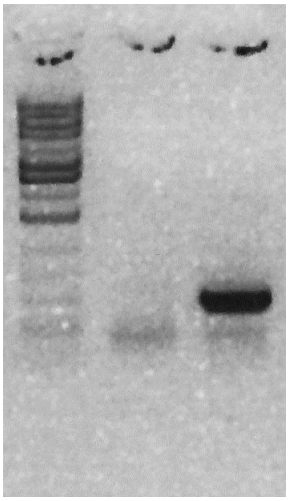
Protocol / Gel Comments:



Lane 1 = All Star 1kb DNA Ladder
Lane 2 = Tail DNA from negative (wild-Type) mouse
Lane 3 = Tail DNA from positive 953CT2IG mouse

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