

**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.

Donating Investigator/PI		
John Rubenstein		
Email		
John.rubenstein@ucsf.edu		
Institution		
University of California at San Francisco		
Address		
Rock Hall, Room RH 282 1550 4th Street University of California at San Francisco		
City	State	Zip
San Francisco	CA	94158
Lab Contact		
Carol Kim		
Email		
carol.kim@ucsf.edu		
Telephone	FAX	
(415)476-7872	(415)476-7884	
Strain Name	MMRRC Stock Number	
1172-CreER-IRES-GFP	037165	

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

mmrrc@ucdavis.edu
530-754-MMRRC

NAME OF PCR: 1172-CreER-IRES-GFP

MMRRC: 037165-UCD

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

Reagent/Constituent	Volume (µL)
Water	17.75
10x Buffer (contains 15mM MgCl ₂)	2.5
MgCl ₂ (stock concentration is mM)	0
Betaine (stock concentration is 5M) <i>Optional</i>	0
dNTPs (stock concentration is 10mM)	1.5
Qiagen Q Buffer	0
Primer 1. (stock concentration is 20µM) Name: 1172.for	0.5
Primer 2. (stock concentration is 20µM) Name: Cre.rev	0.5
Primer 3. (stock concentration is 20µM)	0
Primer 4. (stock concentration is 20µM)	0
Taq Polymerase 5Units/µL	0.25
DNA (example) extracted w/ "Qiagen DNeasy columns or other similar silica based kits"	2
<i>The total volume is auto-calculated based on volumes entered, right click the total and update field to show/recalculate the total volume.</i>	TOTAL VOLUME OF REACTION: 25 µL

Comments on protocol:

Strategy:

Steps	Temp (°C)	Time (m:ss)	# of Cycles
1. Initiation/Melting HOT START? <input type="checkbox"/>	94	5min	1
2. Denaturation	94	30sec	
3. Annealing steps 2-3-4 cycle in sequence	51	30sec	39x
4. Elongation	72	30sec	
5. Amplification	72	10min	1
6. Finish	4	∞	n/a

Primers:

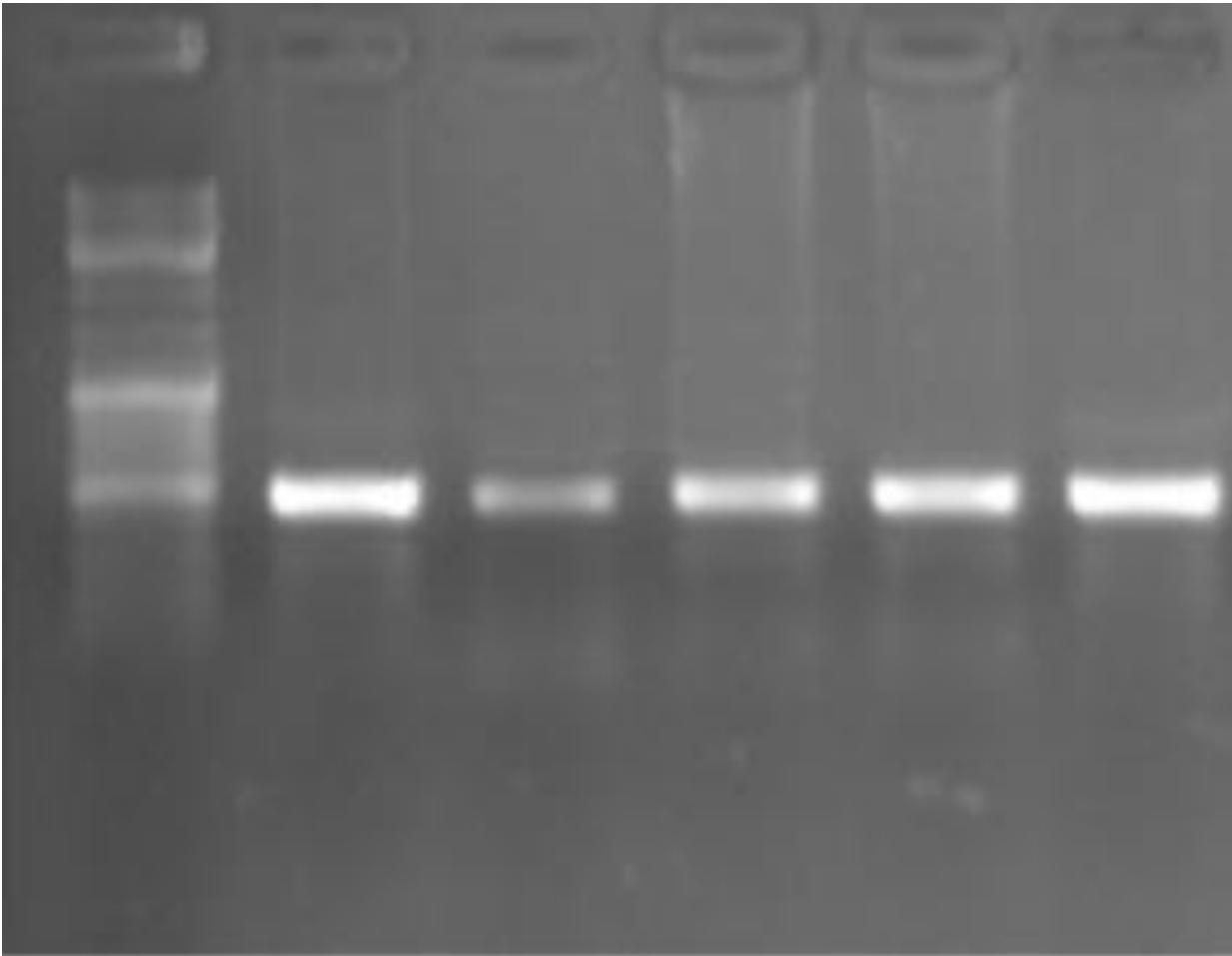
Electrophoresis Protocol:

Name	Nucleotide Sequence (5' - 3')	Argarose: 1	V:120
1.		Estimated Running:Time: 45 min.	
2. 1172.for	GGTTTAATTAATGACTCACT	Primer Combination	Band
3. Cre.rev	AGTGCTGCCTCTGACCTCAT	1172 F/R	500 bp
4.		1172 F/R	N/A bp
5.			bp

Please size gel images to fit in this space

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

mmrrc@ucdavis.edu
530-754-MMRRC



Protocol / Gel Comments:

x