

**GENOTYPING BY PCR PROTOCOL
MUTANT MOUSE REGIONAL RESOURCE CENTER**

sacoord@mmrrc.org

800-910-2291 North America, +1-530-757-5710 International

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		
Dr. Sally A. Camper		
Email		
scamper@umich.edu		
Institution		
University of Michigan		
Address		
1241 Catherine Street, 5704 Med Sci II		
City	State	Zip
Ann Arbor	Mi	48109
Lab Contact		
Michelle Brinkmeier		
Email		
rollerm@umich.edu		
Telephone	FAX	
734-764-4434	734-763-3784	
Strain Name		MMRRC Stock Number
Tg(Prop1-cre)432Sac		70955

GENOTYPING BY PCR PROTOCOL MUTANT MOUSE REGIONAL RESOURCE CENTER

sacoord@mmrrc.org

800-910-2291 North America, +1-530-757-5710 International

NAME OF PCR: _____ MMRRRC: 0-CTR

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

Reagent/Constituent	Volume (μL)
Water	12.175
5x Buffer	5
BSA (stock concentration is 50mg/ml)	0.125
dNTPs (stock concentration is 10mM)	4
Primer 1. (stock concentration is 10pmol/ul)	1.25
Primer 2. (stock concentration is 10pmol/ul)	1.25
Taq Polymerase 5Units/μL	0.2
DNA (50-200ng/ μL) extracted w/ "Qiagen DNeasy columns or other similar silica based kits"	1
<i>The total volume is auto-calculated based on volumes entered, right click the total and update field to</i>	
TOTAL VOLUME	
	25ul

Comments on protocol:

•

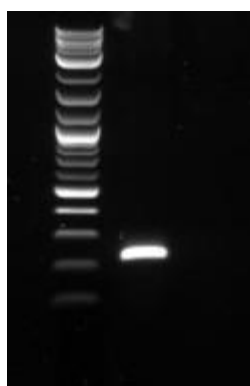
Strategy:

Steps	Temp (°C)	Time (m:ss)	# of Cycles
1. Initiation/Melting HOT START? ☐	92	2:00	1
2. Denaturation	92	0:10	
3. Annealing steps 2-3-4 cycle in sequence	57	0:30	30x
4. Elongation	72	0:30	
5. Amplification			1
6. Finish	4	∞	n/a

Primers:

Electrophoresis Protocol:

Name	Nucleotide Sequence (5' - 3')	Agarose: 1.5% V: 115		
1. Prop1-iCre rev	CTGCACACAGACAGGAGCAT	Estimated Running: Time: 60 min.		
2. Prop1-prom fwd	GGTCTCCCTCCGTTTTTCTC	Primer Combination	Band	Genotype
3.		1/2	216bp bp	Cre+
4.			bp	
5.			bp	



GENOTYPING BY PCR PROTOCOL
MUTANT MOUSE REGIONAL RESOURCE CENTER
sacoord@mmrrc.org

800-910-2291 North America, +1-530-757-5710 International

Protocol / Gel Comments:

Gel pictures:

