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				
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Address				
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Lab Contact				l
Email				
Telephone	FAX			
Strain Name			MM	RRC Stock Number
Ugcg			043	532-UCD

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NAME OF PCR: GICT Lox MMRRC: 043532-UCD

Protocol: (PCR protocol provided by Donating Investigator)

Reagent/Constituent	Volume (μL)
Water	28.75
10x Buffer	5
MgCl <sub>2</sub> (stock concentration is 25mM)	5
Betaine (stock concentration is 5M) Optional	
dNTPs (stock concentration is 10mM)	5
DMSO Optional	
Primer 1. (stock concentration is 20µM)	0.5
Primer 2. (stock concentration is 20µM)	0.5
Primer 3. (stock concentration is 20µM)	
Primer 4. (stock concentration is 20μM)	
Taq Polymerase 5Units/µL	0.25
DNA (50-200ng/ μL) extracted w/ "Qiagen DNeasy columns or other similar silica based ki	its" 5
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 I	REACTION: 50.000 μL

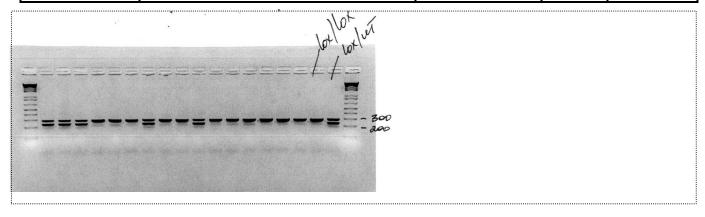
#### Comments on protocol:

Strategy:

Steps		Temp (°C )	Time (m:ss)	# of Cycles
1. Initiation/Melting	HOT START? ☐	94	5:00	1
2. Denaturation		94	1:00	
3. Annealing	steps 2-3-4 cycle in sequence	68	1:00	45x
4. Elongation		72	1:00	
5. Amplification		72	3:00	1
6. Finish		4	$\infty$	n/a

#### Primers:

Name	Nucleotide Sequence (5' - 3')	Argarose: 2.0%	V: <b>90</b>	
1. L-Ex6F	ATGTGCTAGATCAGGCAGGAGGGCTCATAG	Estimated Running:Time: 45 min.		
2. L-int6-4	CCAACAGATATTGAATGCGAATGCTCTGCC	<b>Primer Combination</b>	Band (bp)	Genotype
3.		1 and 2	250	wt
4.		1 and 2	300	lox
5.				
6.				
7.				



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Protocol / G	el Comments:			
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Gel pictures	:			
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