## 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.

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NAME OF PCR: Y240F MMRRC: 0-CTR

Protocol: (PCR protocol provided by Donating Investigator)

Reagent/Constituent	Volume (μL)
Water	28.5
10x Buffer	5
MgCl <sub>2</sub> (stock concentration is mM)	
Betaine (stock concentration is 5M) Optional	
dNTPs (stock concentration is 10mM)	1
DMSO Optional	
Primer 1. (stock concentration is 20µM)	5
Primer 2. (stock concentration is 20µM)	5
Primer 3. (stock concentration is 20µM)	8
Primer 4. (stock concentration is 20µM)	
Taq Polymerase 5Units/µL	.5
DNA (50-200ng/ μL) extracted w/ "Qiagen DNeasy columns or other similar silica based kits"	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 REACTION:	50 μL

#### Comments on protocol:

Strategy:

Steps		Temp (°C)	Time (m:ss)	# of Cycles
1. Initiation/Melting	HOT START? □	94	3	1
2. Denaturation		94	2	
3. Annealing	steps 2-3-4 cycle in sequence	51	:45	40x
4. Elongation		72	1	
5. Amplification		72	5	1
6. Finish		4	00	n/a

#### Primers:

#### **Electrophoresis Protocol:**

Name	Nucleotide Sequence (5' - 3')	Argarose: 1.2%	V: 70	
1. Exon 7F	CAG ATC CTC AGT TTG TGG TCT	Estimated Running:Time: 120 min.		
2. Exon7R	CAG GTG AGT CTG CTT ACA TG	<b>Primer Combination</b>	Band	Genotype
3.		Exon7F + Exon7R	350 bp	Sequence
4.	4		bp	9
5.			bp	

Please size gel images to fit in this space

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### **Protocol / Gel Comments:**

After running the PCR, purify, and send to sequencing with Exon7F and see if wildtype, homo, or het. For the P53 PCR protocol, please refer to The Jackson Lab stock#002101.

### Gel pictures:









