### 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
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- 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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Strain Name	•		MMRRC Stock Number
STOCK Sulf2Gt(XST155)Byg/WerbMmucd			#037625-UCD

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NAME OF PCR: Sulf 2-xst MMRRC: 037625-UCD

Protocol: (PCR protocol provided by Donating Investigator)

Reagent/Constituent	Volume (μL)
Water	19.8
10x Buffer	2.5
MgCl₂ (stock concentration is mM)	n/a
Betaine (stock concentration is 5M) Optional	n/a
dNTPs (stock concentration is 10mM)	0.5
DMSO Optional	n/a
Primer 1. (stock concentration is 20µM)	0.5
Primer 2. (stock concentration is 20µM)	0.5
Primer 3. (stock concentration is 20µM)	0.5
Primer 4. (stock concentration is 20µM)	0.5
Taq Polymerase 5Units/μL	0.2
DNA (50-200ng/ μL) extracted w/ "Qiagen DNeasy columns or other similar silica based kits"	1.0
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:	25 μL

#### Comments on protocol:

•

Strategy:

Steps		Temp (°C)	Time (m:ss)	# of Cycles
1. Initiation/Melting	HOT START? No ☐	94	5:00	1
2. Denaturation		94	0:30	
3. Annealing	steps 2-3-4 cycle in sequence	59 (↓1°C/cycle)	1.00	35x
4. Elongation		72	1:45	
5. Amplification		72	5:00	1
6. Finish		4	$\infty$	n/a

### Primers:

Name	Nucleotide Sequence (5' - 3')	Argarose: 1.5%	V: <b>90</b>	
1. <b>ODL180 wt</b>	TGG GTG CAT AGT TGT AAC TCG	Estimated Running:Time: 90 min.		
2. <b>ODL225 wt</b>	GAT TAG CCT GTC TGT CTC GAG C	<b>Primer Combination</b>	Band (bp)	Genotype
3. <b>ODL369 ko</b>	CGC TGT TGA GAT CCA GTT CGA TGT	1 and 2	~800	wt
4. <b>ODL371 ko</b>	TGG GTT GGG TGC ATA GTT GTA ACT	3 and 4	~1200	KO
5.				
6.				
7.				

Please size gel images and comments to fit within this space

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We no longer use 10X buffer and dNTP. Instead we use  $12.5\mu L$  of JumpStart REDTaq ReadyMix

**Protocol / Gel Comments:**