

GENOTYPING PROTOCOL

UC Davis Mouse Biology Program

Protocol Name: **STOCK *Sulf2*^{Gt(XST155)Byg}/WerbMmucd**

MMRRC: 037625

Protocol: **GoTaq® G2 Colorless Master Mix(Promega)**

Reagent/Constituent	Volume (μL)
Water	4.6
GoTaq® G2 Colorless Master Mix, 2X	7.5
Primer 1. (stock concentration is 20μM)	0.45
Primer 2. (stock concentration is 20μM)	0.45
DNA (example) extracted w/ "Qiagen DNeasy columns or other similar silica based kits"	1.0
TOTAL VOLUME OF REACTION:	15.00 μL

Comments on protocol:

- Protocol may work with other DNA extraction methods.

Strategy:

Steps	Temp (°C)	Time (m:ss)	# of Cycles
1. Initiation/Melting HOT START? ☐	94	5:00	1x
2. Denaturation	94	0:15	
3. Annealing steps 2-3-4 cycle in sequence	65 (↓1°C/cycle)	0:30	10x
4. Elongation	72	0:40	
5. Denaturation	94	0:15	
6. Annealing steps 5-6-7 cycle in sequence	55	0:30	30X
7. Elongation	72	0:40	
8. Finish	4	∞	n/a

Primers:

Electrophoresis Protocol:

Name	Nucleotide Sequence (5' - 3')	Agarose: 1.5%	:	90
1. 37625-KoF	CGCTGTTGAGATCCAGTTCGATGT	Estimated Running 90 min.		
2. 37625-koR	TGGGTTGGGTGCATAGTTGTAAC	Primers	Band (bp)	Genotype
3. 37625-wtF	TGGGTGCATAGTTGTAAC	1 & 2	~1200	Mutant
4. 37625-wtR	GATTAGCCTGTCTGTCTCGAGC	3 & 4	850	Wildtype

