

GENOTYPING BY PCR PROTOCOL

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530-754-MMRRC

Protocol Name: C57BL/6N-Ikzf1tm1.1Swnd/Mmucd **MMRRC: 065350-UCD**

Protocol:

Reagent/Constituent	Volume (μL)
Water	5.6
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	
	15

Comments on protocol:

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	

Primers:

Electrophoresis Protocol:

Name	Nucleotide Sequence (5' - 3')	Argarose: 1.5% V: 90		
1. 65350-F	GTCCTACAAGCTAACCATACGAGACC	Estimated Running Time: 90 min.		
2. 65350-R	ACTATGGTAGGTTCTTCAGGAAGTCC	Primer Combination	Band (bp)	Genotype
		1 & 2	~130	mutant
		1 & 2	626	wildtype

