

GENOTYPING BY PCR PROTOCOL FORM
MUTANT MOUSE REGIONAL RESOURCE CENTER: UC DAVIS
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NAME OF PCR: B6(D2)-Tg(CSN2-fat-1)1Vane/Mmcd **MMRRC #** 031129-UCD

DNA Extraction Method: ☐ NaOH ☒ Proteinase K ☐ Other: _____

Protocol:

Reagent/ Constituent	Volume (µL)
DNA Sample	2.5
10x Buffer (contains 15mM MgCl ₂)	2.5
dNTPs (stock concentration is 2.5 mM)	1.25
Primer 1 (stock concentration is 10 µM)	1.25
Primer 2 (stock concentration is 10 µM)	1.25
Primer 3 (stock concentration is µM)	
Primer 4 (stock concentration is µM)	
Taq Polymerase	0.125
Water	16.125
Additives, if applicable:	
TOTAL VOLUME OF REACTION:	25 µL

Comments on protocol (e.g., different concentration of MgCl₂, etc):

Strategy:

Steps	Temp (°C)	Time (min)	# of Cycles
1. Initiation/Melting HOT START?..CHECK HERE ☐	94	5	1
2. Denaturation	94	1	} 35x
3. Annealing	60	2	
4. Elongation	72	2	
5. Amplification (i.e., 72°C, 10 min)	72	8	1
6. Finish (i.e., 4°C, indefinite)	4	n/a	n/a

Primers:

Primer Name	Nucleotide Sequence (5' - 3')
1: SalNcoOm3F	GTCGACCATGGTCGCTCATTCCTCAG
2: SalNcoOm3R	GTCGACTTACTTGGCCTTTGCCTTC
3:	
4:	

Electrophoresis Protocol:

% Agarose: _____ V: _____

Estimated Running Time (min): _____

Primer combination	Band (kB)	Genotype
1 and 2	1.221	Fat1 positive