

GENOTYPING BY PCR PROTOCOL FORM

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DNA Extraction Method: NaOH X Proteinase K Other

Protocol: NAME OF PCR: MMRRC Strain #30919, B6;129X1-*Fgfr2*^{tm1Moon}, (FgfR2YFP)

Reagent/ Constituent	Volume (uL)
DNA Sample	2
10x Buffer (contains 15mM MgCl ₂)	2.2
dNTPs (stock concentration is 2.5mM)	1.32
Primer 1 (stock concentration is 3 uM)	0.83
Primer 2 (stock concentration is 3 uM)	1.64
Primer 3 (stock concentration is 3 uM)	0.83
Taq Polymerase	0.2
Additives if applicable:	
TOTAL VOLUME OF REACTION:	22 ul

Comments on protocol (e.g., different concentration of MgCl_2 , etc): _____

Strategy:

Steps	Temp (°C)	Time (min)	# of Cycles
1. Initiation/Melting HOT START?..CHECK HERE []	94	2	1
2. Denaturation	94	0.5	32
3. Annealing	60	0.5	
4. Elongation	72	0.5	
5. Amplification (i.e., 72°C, 10 min)	72	5	1
6. Finish (i.e., 4°C, indefinite)	4	n/a	n/a

Primers:

Primer Name	Nucleotide Sequence (5' - 3')
1: AM246	5 ' CTGTCTGCCTCAGTATCCACACATAAA3 '
2: AM266	5 ' CTGGTTAGGTAACATGTTTCCAAC3 '
3: AM270	5 ' TGTACAGATATCGTCGAGCTC3 '
4:	

Electrophoresis Protocol:

% Agarose: 2 V : 10ul

Estimated Running Time (min): 45

Primer combination	Band (kB)	genotype
1&2&3	238	Wild Type
1&2&3	155	YFP

**PASTE GEL PICTURE HERE, CLEARLY
INDICATING LADDER, WATER CONTROL, DNA
CONTROL. & DIAGNOSTIC SAMPLES**