

RMRC Genotyping Protocol-PCR

No.	RMRC13173	Strain Name	C57BL/6-Tg(Ins1-RFP, -cre/ERT2)23Narl
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A. Primers

No.	Primer name	Sequence
1	CreF	CTAAACATGCTTCATCGTCGGTC
2	CreR	TCTGACCAGAGTCATCCTTAGCG

B. Reaction Conditions

Component	Concentration	Volume	Step	Temperature, °C	Time, sec	Number of cycles
H ₂ O	–	15.4 μ l	1	94	180	1
PCR buffer	10 x	2 μ l	2	94	30	35
dNTP	10 mM	0.4 μ l	3	55	30	35
Primer 1	10 μ M (μ mol/ μ l)	0.5 μ l	4	72	30	35
Primer 2	10 μ M (μ mol/ μ l)	0.5 μ l	5	72	180	1
gDNA	50-250 ng/ μ l	1 μ l				
Taq	5 U/ μ l	0.2 μ l				
Mg ²⁺	mM	μ l				
Total		20 μ l				

C. PCR Product

No.	Primer set		Product size	Target region
1	CreF	CreR	560 bp	Cre
2			bp	

D. Gel Photo

