

RMRC Genotyping Protocol-PCR

No.	RMRC13131	Strain Name	C57BL/6-Tg(Kcnj11-RFP-IRES-cre/ERT2)40Narl
-----	-----------	-------------	--

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 μl	1	94	180	1
PCR buffer	10 x	2 μl	2	94	30	35
dNTP	10 mM	0.4 μl	3	55	30	35
Primer 1	10 μM (μmol/μl)	0.5 μl	4	72	30	35
Primer 2	10 μM (μmol/μl)	0.5 μl	5	72	180	1
gDNA	50-250 ng/μl	1 μl				
Taq	5 U/μl	0.2 μl				
Mg ²⁺	mM	μl				
Total		20 μl				

C. PCR Product

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

D. Gel Photo

