

## RMRC Genotyping Protocol-PCR

No.	RMRC13140	Strain Name	C57BL/6-Tg(Ctsk-RFP-IRES-CreERT2)26Narl
-----	-----------	-------------	---

### 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 <sub>2</sub> 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 <sup>2+</sup>	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

