

## RMRC Genotyping Protocol-PCR

No.	RMRC13090	Strain Name	C57BL/6-Tg(Scgb1a1-cre)4Narl
	RMRC13091		C57BL/6-Tg(Scgb1a1-cre/ERT2)5Narl
	RMRC13092		C57BL/6-Tg(Slc5a2-cre/ERT2)2Narl

### A. Primer

	Primer name	Sequence
1	Cre283F	CTAAACATGCTTCATCGTCGGTC
2	Cre844B	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
PCR buffer	10x	2	μl	2	94	30
dNTP	10	mM	0.4	μl	3	55
Primer 1	10	μM(ρmol/μl)	0.5	μl	4	72
Primer 2	10	μM(ρmol/μl)	0.5	μl	5	72
DNA	–	1	μl	6		
Taq	5	U/μl	0.2	μl	7	
Mg <sup>2+</sup>	–	mM	–	μl	8	
Total		20	μl	9		

### C. PCR Product

	Primer set	Product size	Target region
1	Cre283F    Cre844B	560    bp	Cre
2		bp	

### D. Gel Photo

