

RMRC Genotyping Protocol-PCR

No.	RMRC13386	Strain Name	C57BL/6-Tg(Pax8-emGFP,-Tet-On 3G ; PTRE3G-cre)1Tmc/Narl
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A. Primer

	Primer name	Sequence
1	Cre283F	5'-CTAAACATGCTTCATCGTCGGTC-3'
2	Cre844B	5'-TCTGACCAGAGTCATCCTTAGCG-3'

B. Genomic extraction :

- Phenol-Chloroform extraction commercial extraction kit _____
 Lysis buffer _____ other _____

C. Reaction Conditions

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--		10.8	μl	1	95	2 min	1
PCR buffer	10x		1.5	μl	2	95	35 sec	35
dNTP	10	mM	0.3	μl	3	60	35 sec	
Primer 1	20	μM(ρmol/μl)	0.3	μl	4	72	50 sec	
Primer 2	20	μM(ρmol/μl)	0.3	μl	5	72	10 min	1
DNA	50-250 ng/μl		0.5	μl	6			
Taq	5	U/μl	0.3	μl	7			
Mg ²⁺		mM		μl	8			
Total			15	μl	9			

The information of Taq, including company name and catalog number :

D. PCR Product

	Primer set		Product size	Target region
	5'primer	3'primer		
1			bp	
2	Cre280F	Cre844B	562 bp	

E. Gel Photo