

RMRC Genotyping Protocol-PCR

No.	RMRC13397	Strain Name	C57BL/6- <i>Phrf1</i> ^{tm1Cms} /Narl
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A. Primer

	Primer name	Sequence
1	5VF3	TAATCTGATGGTGGCCAGCT
2	5VR1	CTTCGTGCCTGAGGATAGC

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	--			μl	1	95	300	
PCR buffer	10x			μl	2	95	25	30
dNTP		mM		μl	3	53	30	30
Primer 1		μM(ρmol/μl)		μl	4	72	35	30
Primer 2		μM(ρmol/μl)		μl	5	72		
DNA	--			μl	6			
Taq		U/μl		μl	7			
Mg ²⁺		mM		μl	8			
Total				μl	9			

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

D. PCR Product

	Primer set		Product size	Target region
1	5VF3	5VR1	230/270 bp	WT :230bp Mutant : 270bp
2			bp	

E. Gel Photo

