

RMRC Genotyping Protocol-PCR

No.	RMRC23007	Strain Name	SD- <i>Prkdc</i> ^{em1Narl} /Narl
-----	-----------	-------------	---

A. Primer

	Primer name	Sequence
1	#13	aagcgctacagacctgtagg
2	#14	gagccgattccgtagacttc

B. Genomic extraction :

- ☐ Phenol-Chloroform extraction
 ☐ commercial extraction kit _____
- ☒ Lysis buffer Allele-in-one
☐ other _____

C. Reaction Conditions

Step 1. PCR

Component	Concentration		Volume		Step	Tempera- ture, °C	Time, sec	Number of Cycles
H ₂ O	--		8.5	μl	1	94	3′	1
PCR buffer	10x		0	μl	2	94	30″	35
PCR Dye Marker Mix	2x		10	μl	3	60	30″	35
Primer 1	10	μM(ρmol/μl)	0.25	μl	4	72	30″	35
Primer 2	10	μM(ρmol/μl)	0.25	μl	5	72	3′	1
DNA	--		1	μl	6			
Total			20	μl				

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

PCR Product

	Primer set		Product size	Target region
1	#13	#14	361 bp	Wildtype 743 bp
2		+AflIII	221+140 bp	emSCID 221+140 bp

D. Gel Photo

