

## RMRC Genotyping Protocol-PCR

種原編號	RMRC13041	品系名稱	C57BL/6-Tg(UBC-DsRedT3-emGFP)4SJi
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### A. Primer

	Primer name	Sequence
1	DsRed217F	GTGAAGCACCCCGCCGACAT
2	DsRed411R	CTGCATTACGGGGCCGTCGG

### 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	10x		2	μl	2	94	30	35
dNTP	10	mM	0.4	μl	3	60	30	
Primer 1	10	μM(ρmol/μl)	0.5	μl	4	72	30	
Primer 2	10	μM(ρmol/μl)	0.5	μl	5	72	180	1
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	#2		
1			194 bp	DsRed
2			bp	

### D. Gel Photo