

RMRC Genotyping Protocol-PCR

No.	RMRC13200	Strain Name	C57BL/6-Tg(BK5-S100A2)S6LWWL
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A. Primer

	Primer name	Sequence
1	Beta-globin-F	5'-ACA TCC TGG TCA TCA TCC TG-3'
2	S100A2-FL4	5'-GAA TTC AGG GTC GGT CTG GGC AG-3'

B. Reaction Conditions

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--		13.8	μl	1	95	2 mins	1
PCR buffer	10x		2	μl	2	94	15s	35
dNTP	2	mM	2	μl	3	59	30s	35
Primer 1	10	μM(μmol/μl)	2	μl	4	72	30s	35
Primer 2	10	μM(μmol/μl)	2	μl	5	72	5mins	1
DNA	--			μl	6	4	∞	
Taq	5	U/μl	0.2	μl	7			
Mg ²⁺		mM		μl	8			
Total			20	μl	9			

C. PCR Product

	Primer set		Product size	Target region
1	Beta-globin-F	S100A2-FL4	524 bp	
2			bp	

D. Gel Photo

