

RMRC Genotyping Protocol-PCR

No.	RMRC13325	Strain Name	C57BL/6-Tg(Actb-Luc)8Sji/Narl
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A. Primer

	Primer name	Sequence
1	Luc5F	TCACGCAGGCAGTTCTATGAGG
2	Luc3B	GAGGTGGACATCACTTACGCTGAG

B. Reaction Conditions

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--		40	μl	1	95	120	1
PCR buffer	10x		5	μl	2	95	30	35
dNTP	10	mM	1	μl	3	60	30	35
Primer 1	20	μM(ρmol/μl)	1	μl	4	72	45	35
Primer 2	20	μM(ρmol/μl)	1	μl	5	72	600	1
DNA	--		1	μl	6			
Taq	5	U/μl	1	μl	7			
Mg ²⁺		mM		μl	8			
Total			50	μl	9			

C. PCR Product

	Primer set		Product size	Target region
1	Luc5F	Luc3B	511 bp	luciferase
2				

D. Gel Photo

