

RMRC Genotyping Protocol-PCR

No.	RMRC13293	Strain Name	C57BL/6- <i>Lmna</i> ^{tm1.1(G609G)<i>Cy</i>h} /Narl
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A. Primer

	Primer name	Sequence
1	CHI1267F	gacttgctgatgccatggatact
2	CHI1231R	ggactgggagacctgtggctgg

B. Reaction Conditions

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--		19	μl	1	95	300	
PCR buffer	10x		2.5	μl	2	95	60	30
dNTP	2.5	mM	2	μl	3	62	60	30
Primer 1	100	μM(μmol/μl)	0.15	μl	4	72	30	30
Primer 2	100	μM(μmol/μl)	0.15	μl	5	72	360	
DNA	--		1	μl	6			
Taq		U/μl	0.2	μl	7			
Mg ²⁺		mM		μl	8			
Total			25	μl	9			

C. PCR Product

	Primer set		Product size	Target region
1	CHI1267F	CHI1231R	368 bp	WT, amplify intron 10 of mouse <i>Lmna</i> genome
2	CHI1267F	CHI1231R	500 bp	<i>Lmna</i> G609G, amplify intron 10 of <i>Lmna</i> + LoxP and inserted sequence

D. Gel Photo

