

RMRC Genotyping Protocol-PCR

No.	RMRC13348	Strain Name	C57BL/6- <i>Arhgap39^{tm1c(EuCOMM)Wtsi}</i> /CmsNarl
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A. Primer

	Primer name	Sequence
1	FRT1	5'-TACTACGTGCACTCAGGTGATCCT-3'
2	LoxP6	5'-AGCAGGTCACAAATGTCACTCTGC-3'

B. Reaction Conditions

Component	Concentration	Volume	Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--	μl	1	95°C	360	1
PCR buffer	10x	μl	2	94°C	25	30
dNTP	mM	μl	3	52°C	30	30
Primer 1	μM(ρmol/μl)	μl	4	72°C	50	30
Primer 2	μM(ρmol/μl)	μl	5	72°C	600	1
DNA	--	μl	6	4°C	∞	
Taq	U/μl	μl	7			
Mg ²⁺	mM	μl	8			
Total		μl	9			

C. PCR Product

	Primer set	Product size	Target region
1		570 bp	Floxed allele
2		380 bp	WT

D. Gel Photo

