

RMRC Genotyping Protocol-PCR

No.	RMRC13122	Strain Name	C57BL/6-Sp1 ^{tm1a(GEMMS)} Narl ^{>}
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A. Primers

No.	Primer name	Sequence
1	Sp1LF	AACAGGGGCTGGAACAATAG
2	Sp1LR	CGTGAGTTCAAGGGAAGACTGG

B. Reaction Conditions

Component	Concentration	Volume	Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	–	10.8 µl	1	94	180	1
PCR buffer	10 x	1.5 µl	2	94	30	30
Formamide	–	0.5 µl	3	60	30	30
dNTP	10 mM	0.3 µl	4	72	30	30
Primer 1	20 µM (µmol/µl)	0.3 µl	5	72	180	1
Primer 2	20 µM (µmol/µl)	0.3 µl				
gDNA	50-250 ng/µl	1 µl				
Taq	5 U/µl	0.3 µl				
Total		15 µl				

C. PCR Product

No.	Primer set		Product size	Target region
1	Sp1LF	Sp1LR	320 bp	Wildtype
2	Sp1LF	Sp1LR	420 bp	Mutant

D. Gel Photo

