

RMRC Genotyping Protocol-PCR

No.	RMRC13285	Strain Name	B6.129-Myh9 ^{tm1.2 Sji}
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A. Primer

	Primer name	Sequence
1	Myh95F	TAGGAGATGTCCAAGAGGGAGTGC
2	Myh93B	ACACAGGGCAGAGATTCCAAGC
3		

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	20	35
dNTP	10	mM	1	μl	3	60	20	35
Primer 1	20	μM(μmol/μl)	1	μl	4	72	45	35
Primer 2	20	μM(μmol/μl)	1	μl	5	72	600	1
				μl	6			
DNA	0.1 μg/μl		1	μl	7			
Taq	5	U/μl	1	μl	8			
Mg ²⁺		mM		μl	9			
Total			50	μl	10			

C. PCR Product

	Primer set		Product size	Target region
1	Myh95F	Myh93B	510 bp	deleted allele
2			bp	

D. Gel Photo

