

RMRC Genotyping Protocol-PCR

No.	RMRC13125	Strain Name	B6.SH3tc1 ^{tm1NSL}
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A. Primer

	Primer name	Sequence
1	SH3tc18234F	AACTTGCTAGGAGCTTCCTG
2	SH3tc18476R	CTCTCCAGAAATCTTGACTG

B. Reaction Conditions

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--		17.3	μl	1	94	20	1
PCR buffer	10x		2.5	μl	2	94	20	30
dNTP	2.5	mM	2	μl	3	58	20	30
Primer 1	10	μM(μmol/μl)	1	μl	4	72	20	30
Primer 2	10	μM(μmol/μl)	1	μl	5	72	60	1
DNA	--		1	μl	6			
Taq	2.5	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	SH3tc18234F	SH3tc18476R	350 bp	
2			bp	

D. Gel Photo

tm1 allele
 wt allele

