

RMRC Genotyping Protocol-PCR

No.	RMRC13365	Strain Name	B6.129- <i>Asx11^{tm1Wchou}</i> /Narl
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A. Primer

	Primer name	Sequence
1	Asx11-GT-F	CATGTGATATGGCATGTGCG
2	Asx11-GT-R	ACAGGTGACTTGACTTAGGAGC

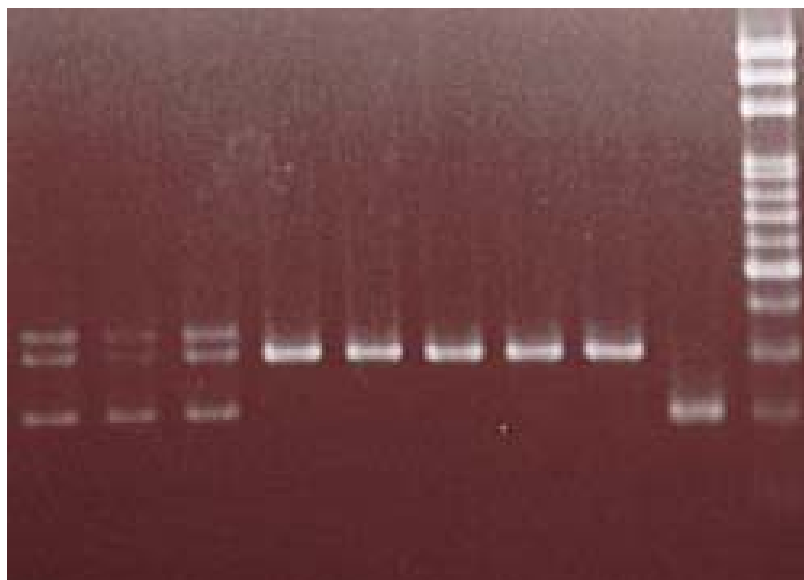
B. Reaction Conditions

Component	Concentration	Volume	Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--	12.2	μl	1	95	300
PCR buffer	10x	2	μl	2	95	20
dNTP	2	mM	2	μl	3	55
Primer 1	10	μM(ρmol/μl)	1	μl	4	72
Primer 2	10	μM(ρmol/μl)	1	μl	5	72
DNA	--	1	μl	6	4	0
Taq	2	U/μl	0.1	μl	7	
Mg ²⁺	50	mM	0.7	μl	8	
Total		20	μl	9		

C. PCR Product

	Primer set	Product size	Target region
1	Asx11-GT-F Asx11-GT-R	300 bp	LoxP region of knock-in allele
2	Asx11-GT-F Asx11-GT-R	200 bp	LoxP region of wild type allele

D. Gel Photo



300 bp

200 bp

protocol PCR-NLAC-TS-4-002-D-02

Heterozygous

Homozygous

WT

