

## RMRC Genotyping Protocol-PCR

No.	RMRC13118	Strain Name	C57BL/6J-Tg(EPCAM)3Abgn
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### A. Primer

	Primer name	Sequence
1	Exon2-3sense	5'-ATA-ATA-ATC-GTC-AAT-GCC-AGT-GTA-3'
2	Exon 2-3 antisense	5'-ATC-ATA-AAG-CCC-ATC-ATT-GTT-CT-3'

### B. Reaction Conditions

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H <sub>2</sub> O	--		14.1	μl	1	94	300	1
PCR buffer	10x		2	μl	2	94	45	
dNTP	10	mM	0.4			55	45	
Primer 1	10	μM(μmol/μl)	0.4			72	45	30
Primer 2	10	μM(μmol/μl)	0.4	3	3	72	420	1
DNA	5ng/ul~10ng/ul		2	μl				
Taq	5	U/μl	0.1	μl				
Mg <sup>2+</sup>	50	mM	0.6	μl				
Total			20	μl				

### C. PCR Product

	Primer set		Product size	Target region
1	Exon 2-3 sense	Exon 2-3 antisense	404bp	hEpCAM Exon 2-3
2			bp	

### D. Gel Photo

