

RMRC Genotyping Protocol-PCR

No.	RMRC13439	Strain Name	C57BL/6- <i>Apo^e_{em1}(APOE*4)</i> <i>Narl</i> / <i>Narl</i>
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A. Primer

	Primer name	Sequence
1	ApoEI25F	TCTGAGACCAACATAGTGGAAGGAG
2	ApoeKI5B	TAATCCCAAAGCGACCCAGTGCC
3	ApoEE33B	AATCCAGAAGCGGTTTCAGG

B. Genomic extraction :

Phenol-Chloroform extraction commercial extraction kit _____

Lysis buffer Allele-In-One ABP-PP-MT01500 Mouse Tail Direct Lysis Buffer other _____

C. Reaction Conditions

Step 1. PCR

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--		8.8	μl	1	95	300	1
PCR buffer	10x		-	μl	2	95	30	35
PCR Dye Marker Mix	2x		10	μl	3	60	30	
Primer 1	10	μM(ρmol/μl)	0.4	μl	4	72	30	
Primer 2	10	μM(ρmol/μl)	0.4	μl	5	Go to step 2		
DNA	50~250ng/ml		0.4	μl	5	72	300	1
Total			20	μl				

The information of Taq, including company name and catalog number : Taq DNA Polymerase 2x

Master Mix RED (Ampliqon, Cat.No.:A180303)

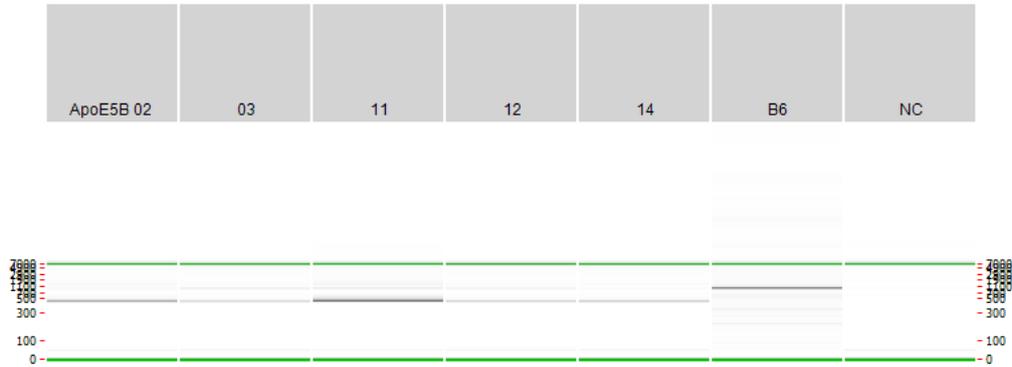
PCR Product

	Primer set		Product size	Target region
1	ApoEI25F	ApoeKI5B	441 bp	APOE4 knockin

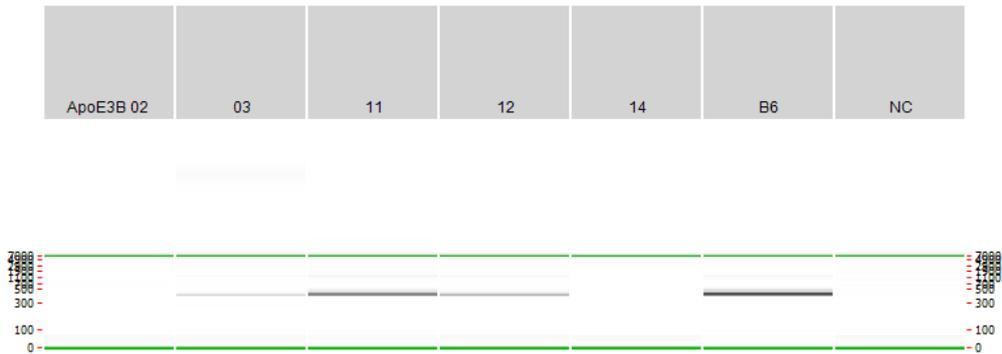
2	ApoE125F	ApoEE33B	398 bp	wildtype
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D. Gel Photo

Primer set 1



Primer set 2



02<KI/KI> 03<KI/+> 11<KI/+> 12<KI/+> 14<KI/KI>