

# PCR protocol

**RBRC 03418**
**Strain name ApoE4 KO**

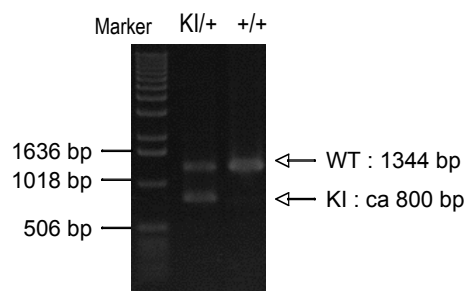
Primer	primer_name	primer_seq	length	
1	oIMR0180	GCCTAGCCGAGGGAGAGCCG	20	JAX Genotyping Protocol
2		CACCAGAGGGCCAGAGAGGTGC	22	RIKEN BRC
3	Neo-P1	GCCTGCTTGCCGAATATCATGGTGGAAAAT	30	Depositor's primer

**Reaction Components**
**Enzyme** TOYOBO KOD FX (Code.No : KFX-101)

**Reaction Conditions**

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		1.8			
PCR buffer	2 X	10.0			
dNTP	2.0 mM	4.0			
primer 1	10 pmol/μl	1.0			
primer 2	10 pmol/μl	1.0			
primer 3	10 pmol/μl	1.0			
DNA		1.0			
Taq	1 U/μl	0.2			
<b>total</b>		<b>20</b>			

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	63	30*	
4	68	90*	*Repeat for 30 cycles


**Marker**

1 kb DNA ladder (Invitrogen, Cat. 15615-024)

**Gel**

1% agarose in 1 X TAE (100 V, 30 min)

**PCR products**

primer_1	primer_2	product_size	product
primer 1	primer 2	1,344 bp	WT
primer 2	primer 3	ca 800 bp	KI

**Comment**