

RBRC 06344

Strain name C57BL/6-App<tm3(NL-G-F)Tcs>

Primer	primer_name	primer_seq	length	
1		CTCCTTGTGGCTGGCGGTACAC	23	RIKEN BRC
2	common_1	CTATCGTGGACCGAGAATGGTCATG	25	RIKEN BRC

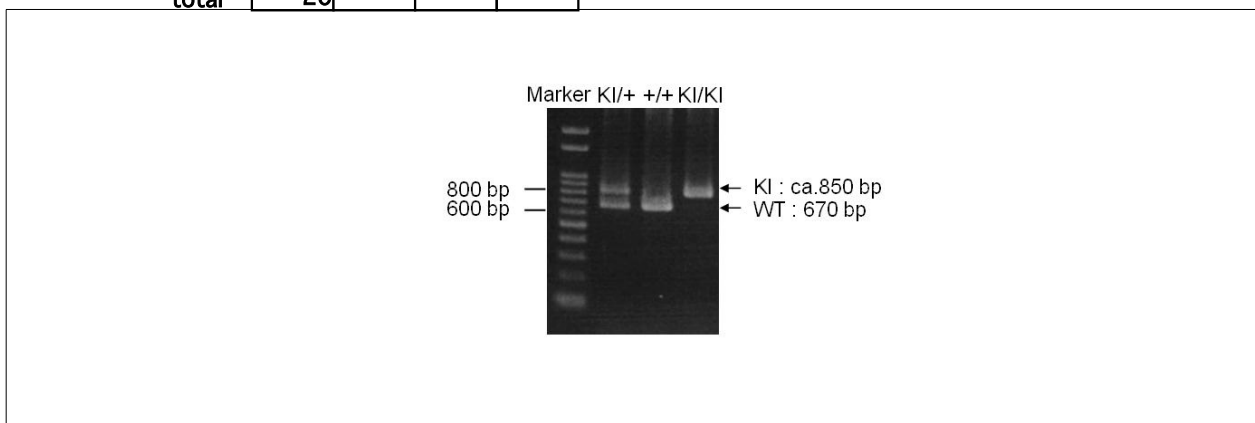
Reaction Components

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

Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	60*	*Repeat for 30 cycles

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		2.8			
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			
DNA		1.0			
Taq	1 U/μl	0.2			
total		20			



Marker
Gene Ladder 100 (Wako, Cat. 316-06951)

Gel
2% agarose in 1 X TAE (100 V, 30 min)

PCR products			
	primer_set	product_size	product
primer 1	primer 2	670 bp	WT
primer 1	primer 2	ca.850 bp	KI

Comment Novagen KOD Xtreme™ Hot Start DNA Polymerase can be purchased from EMD.

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Strain name C57BL/6-App<tm3(NL-G-F)Tcs>

Primer	primer_name	primer_seq	length	
1	E16WT	ATCTCGGAAGTGAAGATG	18	Nature Neuroscience, 17, 661-663 (2014).
2	WT	TGTAGATGAGAACTTAAC	18	Nature Neuroscience, 17, 661-663 (2014).
3	E16MT	ATCTCGGAAGTGAATCTA	18	Nature Neuroscience, 17, 661-663 (2014).
4	LoxP	CGTATAATGTATGCTATACGAAG	23	Nature Neuroscience, 17, 661-663 (2014).

Reaction Components

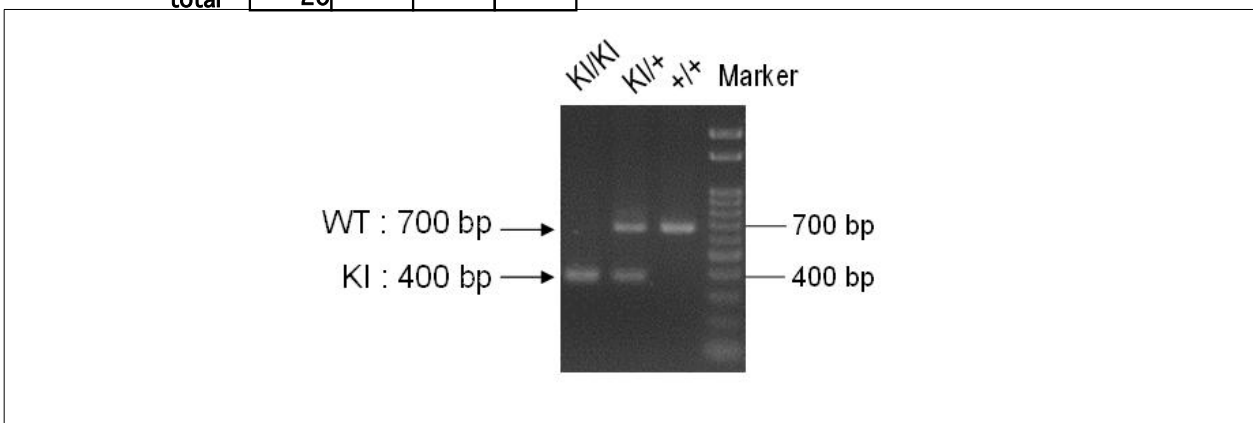
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		0.8			
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			
primer 4	10 pmol/μl	1.0			
DNA		1.0			
Taq	1 U/μl	0.2			
total		20			

Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	55	30*	
4	68	60*	*Repeat for 30 cycles

Standard PCR



Marker
 Gene Ladder 100 (Wako, Cat. 316-06951)

Gel
 2% agarose in 1 X TAE (100 V, 30 min)

PCR products

primer_set	product_size	product
primer 1	700 bp	WT
primer 3	400 bp	KI

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