PCR protocol

Sheet ID PS_05964
Release date : 12/11/2014
Print date : 12/11/2014

RBRC 06343 **Strain name** C57BL/6-App<tm2(NL-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).

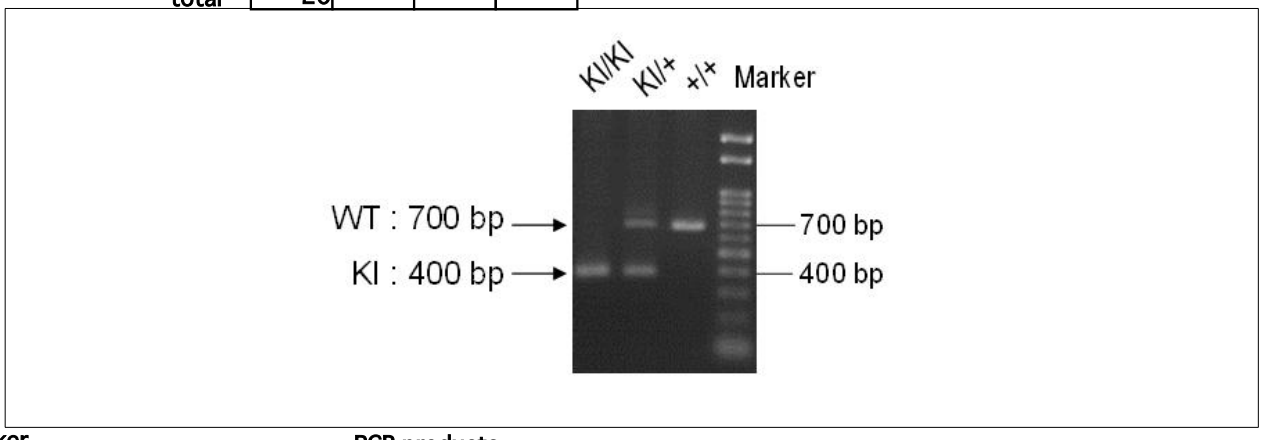
Reaction Components

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



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	700 bp	WT
primer 3	primer 4	400 bp	KI

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