PCR protocol

Sheet ID PS_05703
Release date : 2/27/2014
Print date : 2/27/2014

RBRC 06197 **Strain name** B6.129S4-Cckar<tm1Kym>

Primer	primer_name	primer_seq	length		
1	intron2	GCACGTGCTTGGTGAGCCATG	21		RIKEN BRC
2	Exon2	GCAAGACTACCACCTACTTCATGG	24		RIKEN BRC
3	MC-3	CAATATCACGGGTAGCCAACGC	22		Depositor's primer

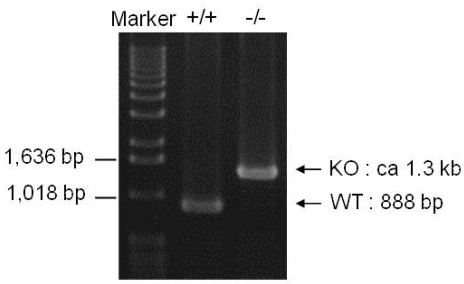
Reaction Components

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

	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			
	total	20			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	60	30	*
4	68	180	* *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_set		product_size	product
primer 1	primer 2	888 bp	WT
primer 1	primer 3	ca 1.3 kb	KO

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