PCR protocol

Sheet ID PS_05148
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RBRC 05821

Strain name B6.Cg-Camk2a<tm1.1Oyam>

Primer	primer_name	primer_seq	length		Reference
1	Upper	GGTCTTGAAGACTGTCTGGTGTGAGA	26		J. Neurosci., 29, 7607-7618 (2009).
2	Lower	CACAGGCCAGTTTAGGTCTTGCTAGG	26		J. Neurosci., 29, 7607-7618 (2009).

Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

Reagent	Conc	Reaction 1	2	3	4
H2O		13.3			
PCR buffer	10 X	2.0			
dNTP	2.5 mM	1.6			
primer 1	10 pmol/μl	1.0			
primer 2	10 pmol/μl	1.0			
DNA		1.0			
Taq	5 U/μl	0.1			
	total	20			

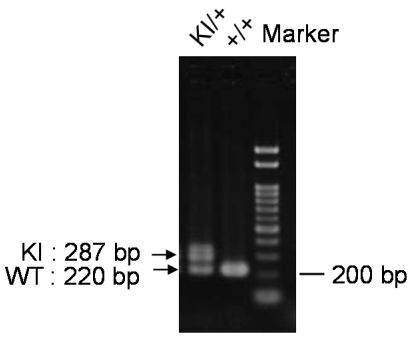
(μL)

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30*	
3	65	30*	
4	72	60*	*Repeat for 30 cycles
5	72	300	

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

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



primer_set		product_size	product (allele type)
primer 1	primer 2	220 bp	WT
primer 1	primer 2	287 bp	KI

Comment