PCR protocol

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RBRC 11346

Strain name B6.Cg-Actb<tm1.1(tetO-GFP/bPAC)Yksk>

Primer	primer_name	primer_seq	length		Reference
1	WT_Fw	ATTTCTGAATGGCCCAGGTCTGAG	24		RIKEN BRC
2		GGATTTGGTCATGAACCTTAGCC	23		RIKEN BRC
3		ATGCTGTCAGGCTCAGTGGAC	21		RIKEN BRC

Reaction Components

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

Reagent	Conc	Reaction 1	2	3	4
H2O		1.6			
PCR buffer	2 X	10.0			
dNTP	2 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	0.4			
	total	20			

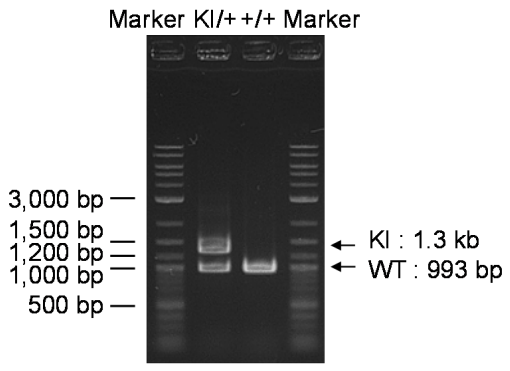
(μL)

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	68	180	* *Repeat for 30 cycles

Marker: 2-Log DNA Ladder (NEB, Cat. N3200)

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



primer_set		product_size	product (allele type)
primer 1	primer 2	993 bp	WT
primer 2	primer 3	1.3 kb	KI

Comment Standard PCR

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