

PCR protocol

RBRC 09533

Strain name B6;129-Hprt<tm1(CAG-mcherry-NLS)Koba>

Primer	primer_name	primer_seq	length	
1		GAACCTATTATGCTGGCTAGTCAC	24	RIKEN BRC
2		CACCAGTGAAGAGCACTGGATGC	23	RIKEN BRC
3	R201	CGCGGAACTCCATATATGGGCTATG	25	RIKEN BRC

Reaction Components

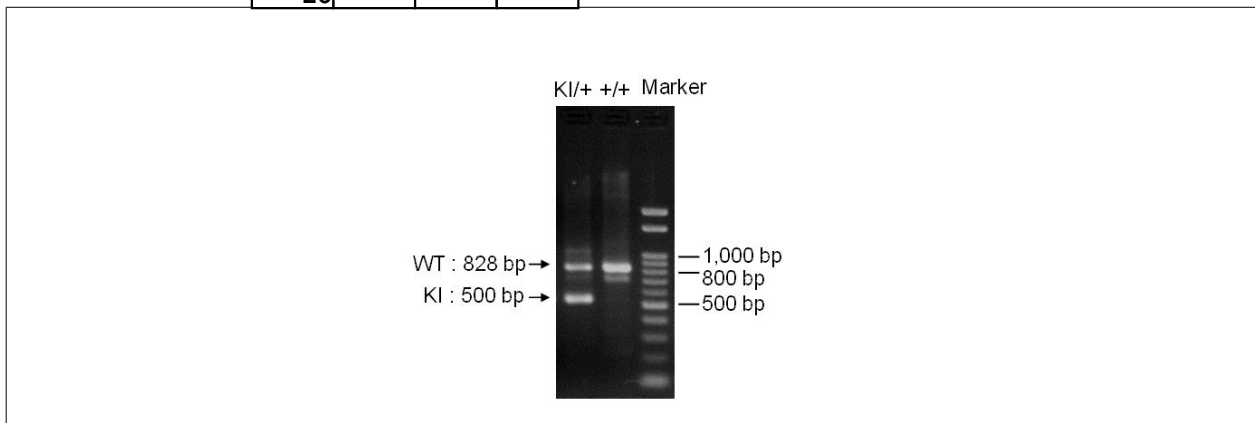
Enzyme

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		1.8			
PCR buffer	2 X	10.0			
dNTP	2.0 mM	4.0			
primer 1	10 pmol/ μ l	1.0			
primer 2	10 pmol/ μ l	1.0			
primer 3	10 pmol/ μ l	1.0			
DNA		1.0			
Taq	1 U/ μ l	0.2			
total		20			

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	primer 2	828 bp	WT
primer 1	primer 3	500 bp	KI

Comment

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