PCR protocol

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Release date : 3/3/2017
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RBRC 05455 Strain name B6.Cg-Mtap7d1<tm1>/2A5

Primer	primer_name	primer_seq	length		
1	7RGf1	AGGCTGAAAGGGACAAGTGAGTGTG	25		Depositor's primer
2	7RGr1	TTCTGAAAGTGCTTTTCCCGCTCCT	25		Depositor's primer
3	Neo30	TTCTATCGCCTTCTTGACGAGTTCTTCTGA	30		Depositor's primer

Reaction Components

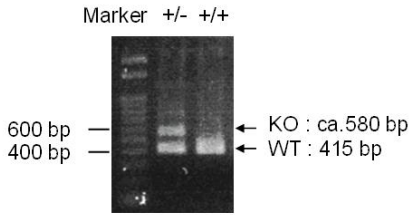
Enzyme: TOYOBO KOD FX (Code.No : KFX-101)

	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	60*	*Repeat for 30 cycles

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	415 bp	WT
primer 3	primer 2	ca 580 bp	KO

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