PCR protocol

Sheet ID PS_06990
Release date : 9/15/2016
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RBRC 09702 **Strain name** B6.129-Mta1<tm1Nkcc>

Primer	primer_name	primer_seq	length		
1	Mta1-com	AAGCAGGACCAACGGTGCAGAGAGC	25		Depositor's primer
2	Mta1-wt	GCGCCCAAACCTGGAATGACTCACC	25		Depositor's primer
3	Mta-mu	TAGCTTTACGGAGCCCTGGCGCTCG	25		Depositor's primer

Reaction Components

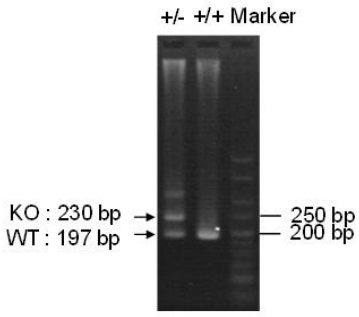
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

	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

25bp DNA Step Ladder (Wako, Cat. 292-69001)

Gel

3% Nusieve in 0.5 X TBE (100 V, 50 min)

PCR products

primer_set		product_size	product
primer 1	primer 2	197 bp	WT
primer 1	primer 3	230 bp	KO

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