

RBRC 05282

Strain name LMIR5 (Acc. No. CDB0539K)

Primer	primer_name	primer_seq	length	
1	WT_Fw	GCTTATGAGTAAGACACTCAGAGGC	25	RIKEN BRC
2	WT_Rv	CTATTGCCACTCTACACCTGCAG	23	RIKEN BRC
3	lacZas	CGCGTAAAAATGCGCTCAGG	20	PLoS One, 4, e6869 (2009).

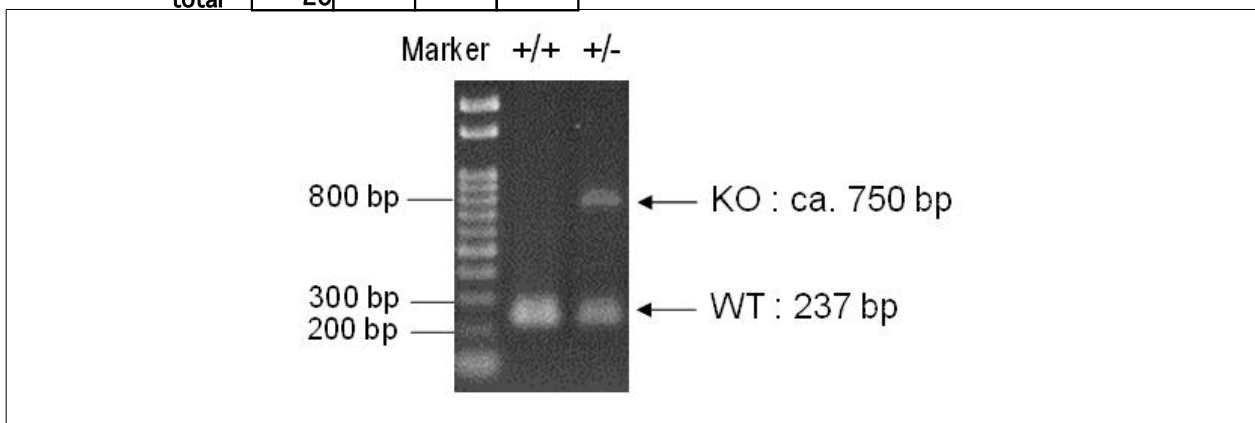
Reaction Components

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

Reaction Conditions

	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			

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	60*	*Repeat for 30 cycles



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	237 bp	WT
primer 1	primer 3	ca. 750 bp	KO

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