PCR protocol

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RBRC 06162 **Strain name** B6;129-Ednra<tm1Ywa>

Primer	primer_name	primer_seq	length		
1	KH27	GGCTCTCAAGACTGGATTCTTTCCCTTGGCCATTC	35		Depositor's primer
2	KH61	TCTGGTCAGTTCCTGCTTTCCTCCTGG	27		Development, 125, 813-824 (1998).
3	Neo30	TTCTATCGCCTTCTTGACGAGTTCTTCTGA	30		

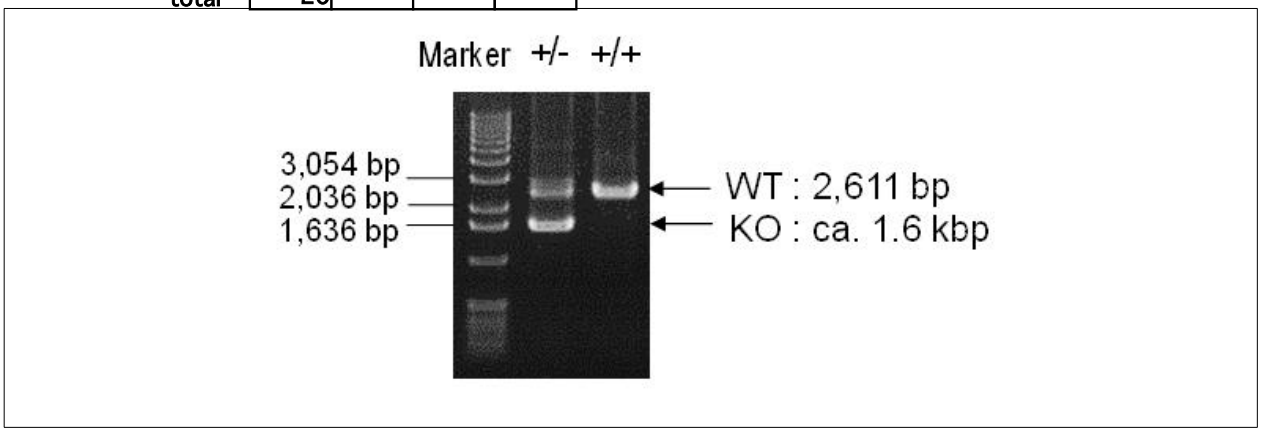
Reaction Components

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	240	*	*Repeat for 30 cycles



Marker

1 kb DNA ladder (Invitrogen, Cat. 15615-024)

Gel

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

PCR products

primer_set		product_size	product
primer 1	primer 2	2,611 bp	WT
primer 1	primer 3	ca. 1.6 kbp	KO

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