

RBRC 02256

Strain name B6;129S-Grin2a<tm1Nak>

Primer	primer_name	primer_seq	length	
1	preTM2A	TGGAAAAGCTATATGGCTCC	20	Depositor's primer
2	NR2A-R	AGTCACTTGGTCCACAACTC	21	Depositor's primer
3	Neo-R	ACCTGCGTGCAATCCATCTT	20	Depositor's primer

**Reaction Components**

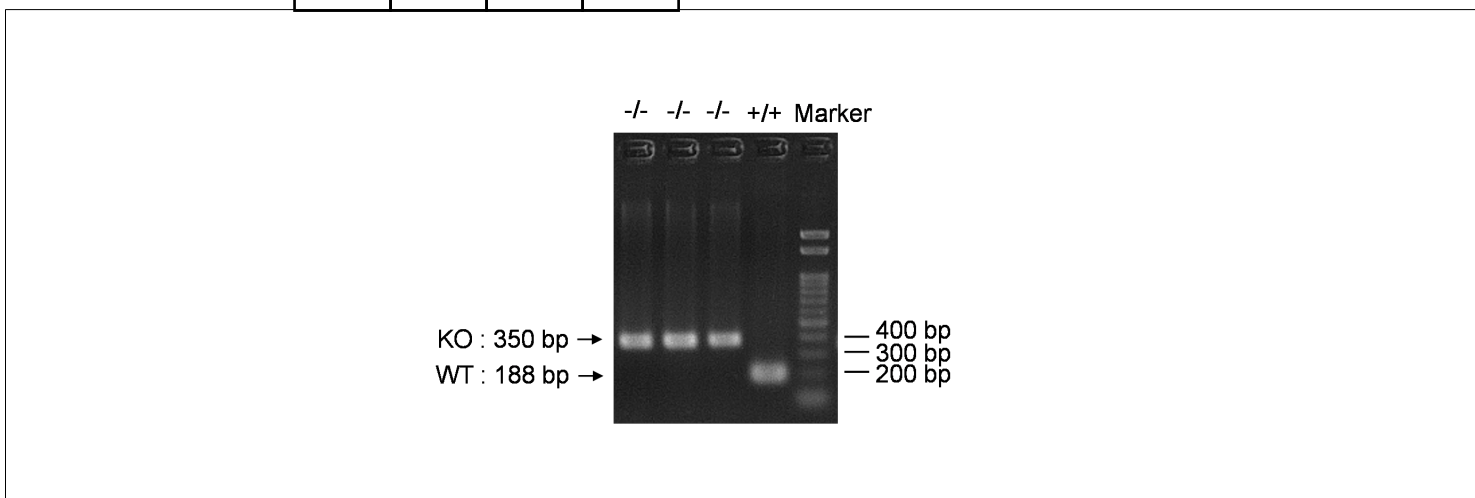
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

**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/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			
<b>total</b>		<b>20</b>			

step	temp (°C)	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)

**Comment**

**PCR products**

primer_set	product_size	product
primer 1	188 bp	WT
primer 2	350 bp	KO

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