

RBRC 05801

Strain name B6.Cg-Kif15<tm1Mitf>

Primer	primer_name	primer_seq	length	Reference
1	KIF-genome-fwd#1	GTTTGTCTGAGAGCCTGTGATCTA	24	Depositor's primer
2	Kif15_WT	GAGGTCCGGATGTTACGGTC	21	RIKEN BRC
3	Neo10	ATCAGAGCAGCCGATTGTCTGTTG	24	Oncogene, 15, 1151-1159 (1997).

### Reaction Components

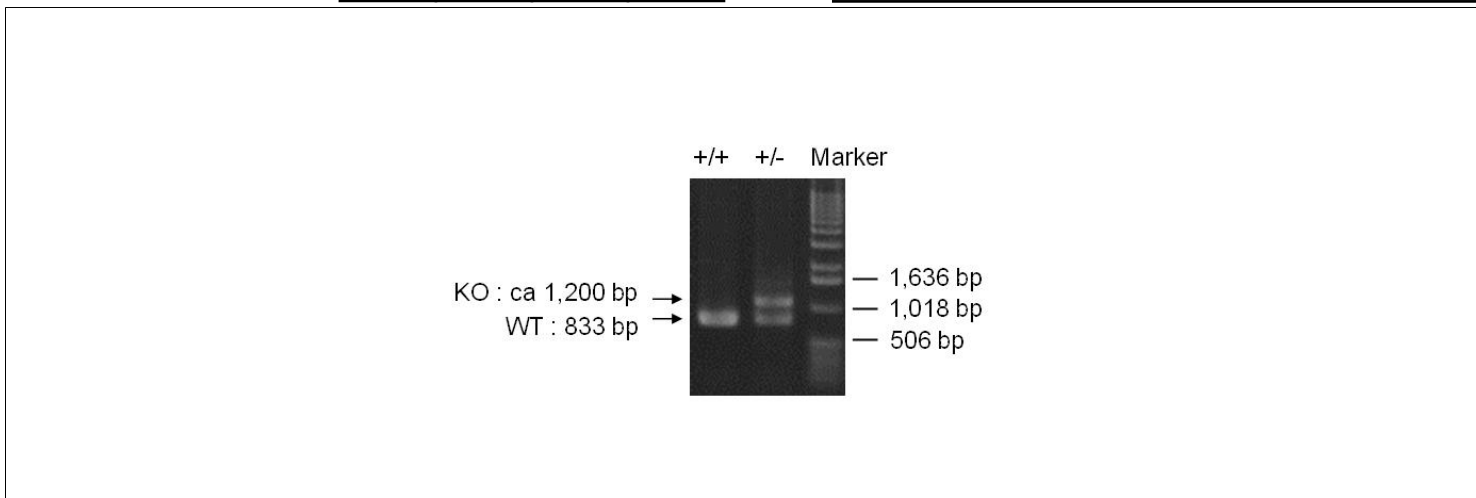
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

Reagent	Conc	Reaction 1	2	3	4
H2O		1.8			
PCR buffer	2 X	10.0			
dNTP	2 mM	4.0			
primer 1	10 pmol/ $\mu$ l	1.0			
primer 2	10 pmol/ $\mu$ l	1.0			
primer 3	10 pmol/ $\mu$ l	1.0			
DNA		1.0			
Taq	1 U/ $\mu$ l	0.2			
<b>total</b>		20			

### Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	90*	*Repeat for 30 cycles

Marker 1 kb DNA ladder (Invitrogen, Cat. 15615-024)  
Gel 1% agarose in 1 X TAE (100 V, 30 min)



primer_set	product_size	product (allele type)
primer 1	primer 2	833 bp WT
primer 3	primer 2	ca 1,200 bp KO

Comment [Standard PCR](#)

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