

RBRC 05159

Strain name B6;129S6-Gt(ROSA)26Sor<tm1(CAG-eNpHR3/EYFP)Imayo>

Primer	primer_name	primer_seq	length	Reference
1	R26F2	AAAGTCGCTCTGAGTTGTTAT	21	Nature Genet., 21, 70-71 (1999).
2	RV	GCTCACAAGACCTTAGGTCAG	21	RIKEN BRC
3	LFcheck-HR-rv	TGAAGGGCCACGGCACTCTCGGTC	24	Depositor's primer

Reaction Components

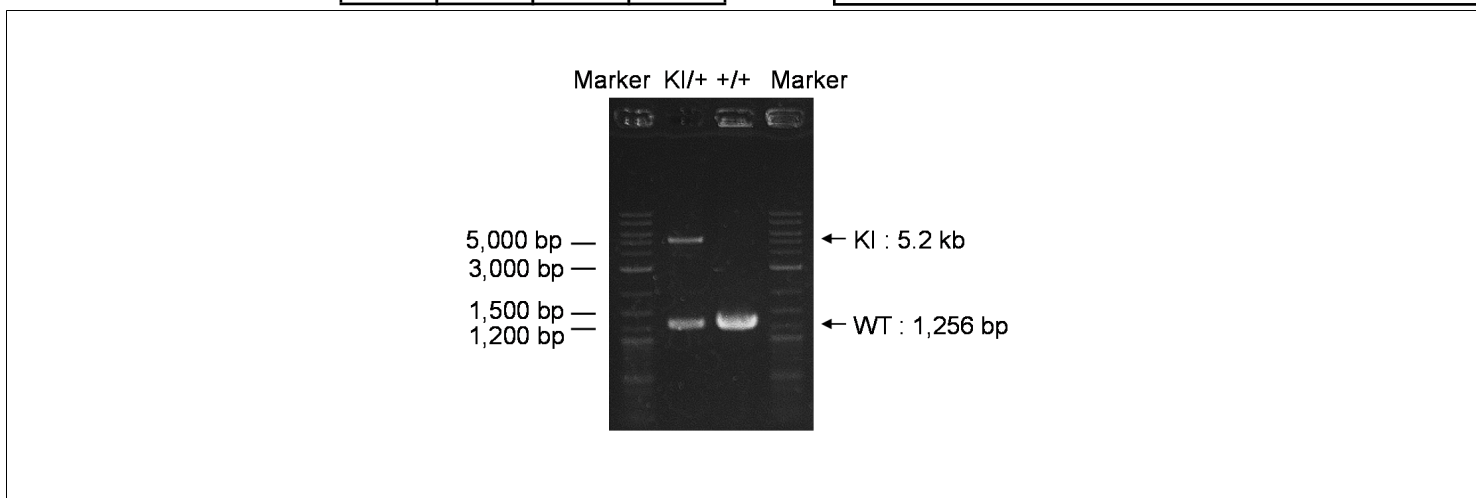
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

Reagent	Conc	Reaction 1	2	3	4
H2O		1.6			
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	0.4			
total		20			

Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	360*	*Repeat for 30 cycles

Marker 2-Log DNA Ladder (NEB, Cat. N3200)
Gel 1% agarose in 1 X TAE (100 V, 30 min)



primer_set	product_size	product (allele type)	
primer 1	primer 2	1,256 bp	WT
primer 1	primer 3	5.2 kb	KI

+/+ (wild-type): 1,256 bp
KI/+ (heterozygous): 1,256 bp and 5.2 kb

Comment [Standard PCR](#)

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