

RBRC 11557

Strain name B6.129S-Ostn<tm1Ncvc>

Primer	primer_name	primer_seq	length	Reference
1	Wildtype	CTAGGGCACAGAAACAGCATTTTGT	25	Depositor's primer
2	intron 3	GCATTCTCAAGTGACTGAGTACC	23	RIKEN BRC
3	lacZ	GGCACATGGCTGAATATCGACGG	23	RIKEN BRC

Reaction Components

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

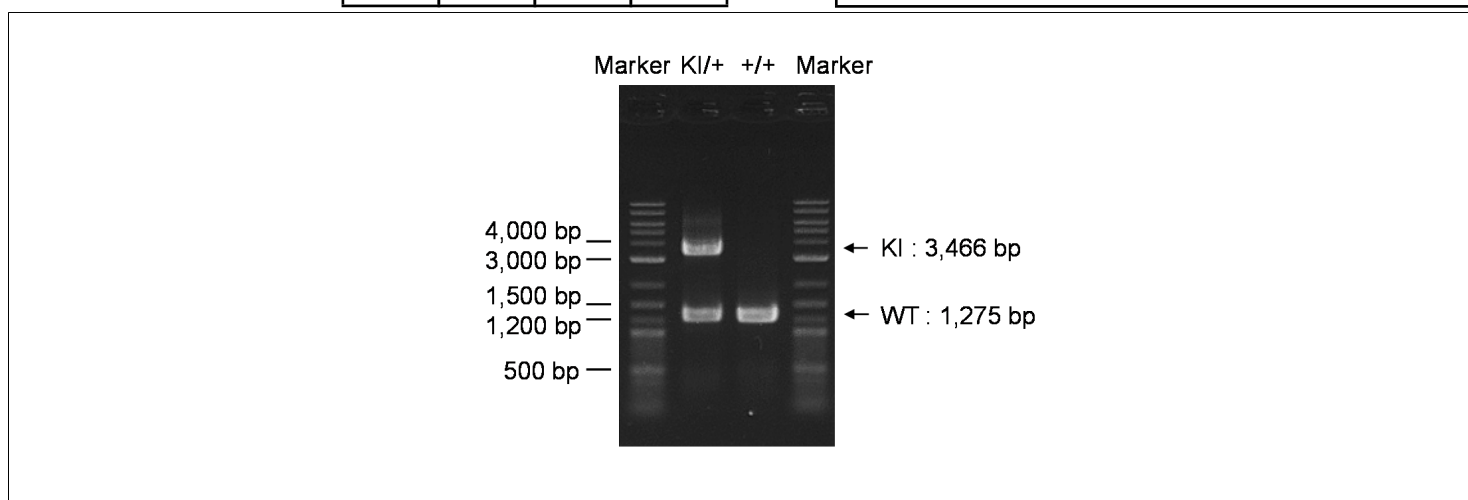
Reagent	Conc	Reaction 1	2	3	4	(μL)
H2O		1.8				
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
total		20				

Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	300*	*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	1,275 bp	WT
primer 2	primer 3	3,466 bp	KI

+/+ (wild-type): 1,275 bp
KI/+ (heterozygous): 1,275 bp and 3,466 bp

Comment Standard PCR

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