

RBRC 10391

Strain name C.Cg-Xcr1<tm2(HBEGF/Venus)Ksho>

Primer	primer_name	primer_seq	length	Reference
1	XCR1_WT_S	CTATCTTAAGATTTCTCAGGGCCAGTCTAC	30	Depositor's primer
2	XCR1_WT_AS	CAGGACAATGGTAGAGATGGTGGAAAAG	28	Depositor's primer
3		CGTTCTTCTGCTTGTCGGCGG	21	RIKEN BRC

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	2.0 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			

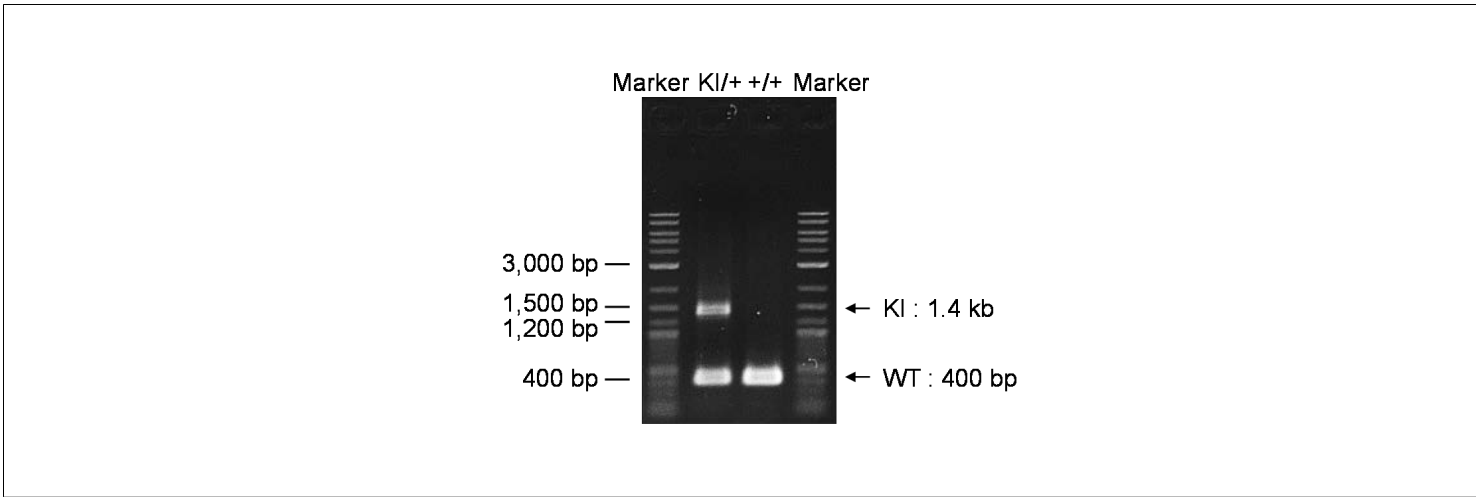
(μL)

Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	120*	*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	400 bp	WT
primer 1	primer 3	1.4 kb	KI
+/+ (wild-type): 400 bp KI/+ (heterozygous): 400 bp and 1.4 kb			

Comment [Standard PCR](#)

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