

RBRC 11137

Strain name B6J.B6N-Qrfp<tm2.1(icre)Stak>

Primer	primer_name	primer_seq	length	Reference
1	Qrfp-in1F	TCTGGTATTCCAGTACTGAG	20	Depositor's primer
2	Qrfp-codR	CTCAGCTCCTCTGCCAGAGT	20	Depositor's primer
3	iCre-for	CTGTGGATGCCACCTCTGATGAAG	24	RIKEN BRC

Reaction Components

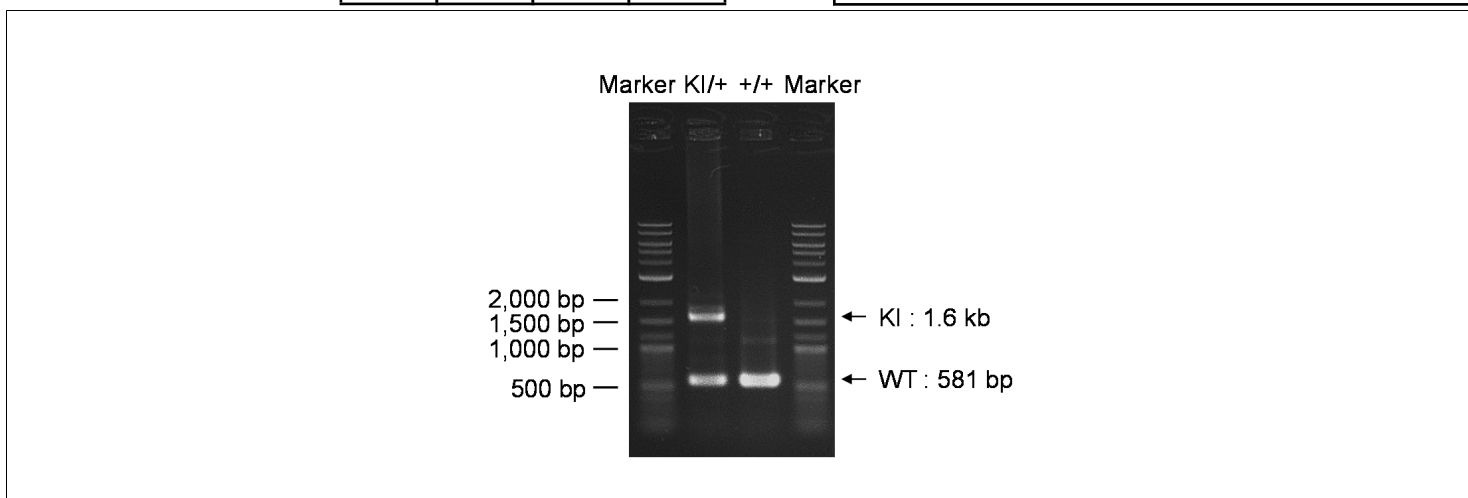
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

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

Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	55	30*	
4	68	180*	*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	581 bp	WT	+/+ (wild-type): 581 bp KI/+ (heterozygous): 581 bp and 1.6 kb
primer 2	1.6 kb	KI	

Comment Standard PCR

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