

RBRC 10698

Strain name B6.Cg-Spp1 <tm1.1(GFP)Yham>

Primer	primer_name	primer_seq	length	Reference
1	Spp1-WT F	CAGGACTAACTACGACCATGAGATTG	26	Depositor's primer
2	Spp1-EGFP KIR	TGTGACCTGCTTTATGTAAGTAGCA	25	Depositor's primer
3	Spp1-EGFP KIF2	CCACAAGTTCAGCGTGTCC	19	Depositor's primer

Reaction Components

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

Reaction Conditions

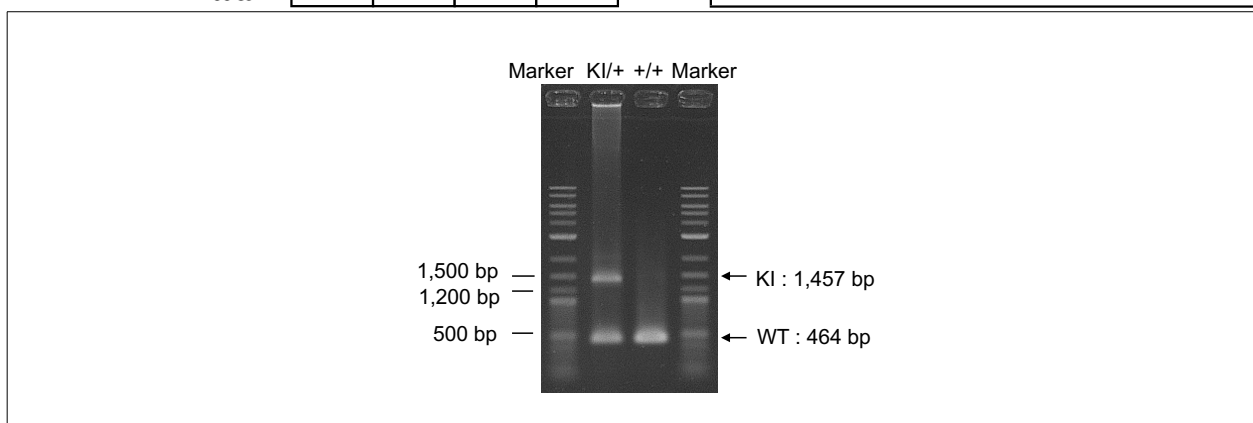
step	temp (°C)	time (sec)	note
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1	94	120	
2	98	10*	
3	60	30*	
4	68	180*	*Repeat for 30 cycles

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				

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	464 bp	WT	+/+ (wild-type): 464 bp KI/+ (heterozygous): 464 bp and 1457 bp
primer 2	primer 3	1,457 bp	KI	

 Comment [Standard PCR](#)

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