

RBRC 11721

Strain name B6;Cg-Sdccag8<em1Tfur>

Primer	primer_name	primer_seq	length	Reference
1	mSdccag8-PCR-51	AATATGGGTTCTTTTCCTCCCTCTGTC	27	Depositor's primer
2	wt	GAGCTGCTGGGCGAGGCCGAAC	22	RIKEN BRC
3	mut	GGTGCAGTTGGCGGAATTCTCA	22	RIKEN BRC
4	common	GAATTAGTGGTGGTAGTGGCAG	22	RIKEN BRC

Reaction Components

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

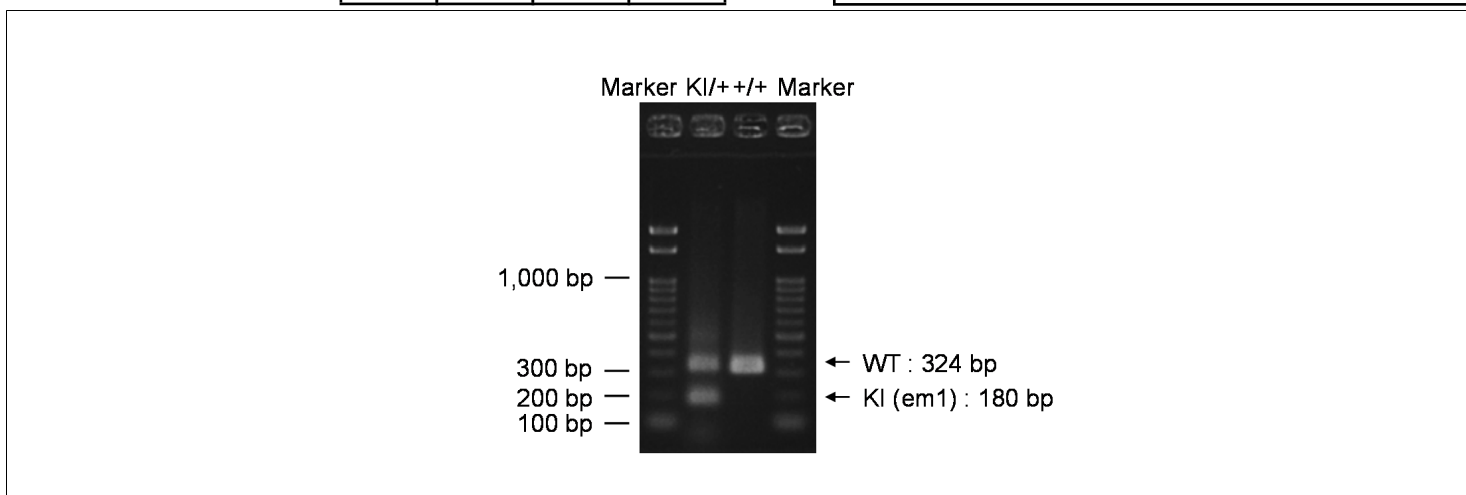
Reaction Conditions

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

Reagent	Conc	Reaction 1	2	3	4	(μL)
H2O		0.8				
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				
primer 4	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
total		20				

Marker Gene Ladder 100 (Wako, Cat. 316-06951)

Gel 2% agarose in 1 X TAE (100 V, 30 min)



primer_set	product_size	product (allele type)	
primer 2	primer 4	324 bp	WT
primer 1	primer 3	180 bp	KI (em1)

+/+ (wild-type): 324 bp
KI/+ (heterozygous): 324 bp and 180 bp

Comment

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