

RBRC 00117

Strain name C57BL/6JBoy-H-Z^g

Primer	primer_name	primer_seq	length	Reference
1	H-2K common	CAGGTATCTGCCGAGCCAC	19	RIKEN BRC
2	H-2Kb	TTGGTTGAGCCCACAGGTGGGCG	23	RIKEN BRC
3	H-2Kk	CACACGTTCCAACGGATGTAC	21	RIKEN BRC

Reaction Components

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

Reagent	Conc	Reaction 1	2	3	4
H2O		2.8	2.8		
PCR buffer	2 X	10.0	10.0		
dNTP	2.0 mM	4.0	4.0		
primer 1	10 pmol/μl	1.0	1.0		
primer 2	10 pmol/μl	1.0	0		
primer 3	10 pmol/μl	0	1.0		
DNA		1.0	1.0		
Taq	1 U/μl	0.2	0.2		
total		20	20		

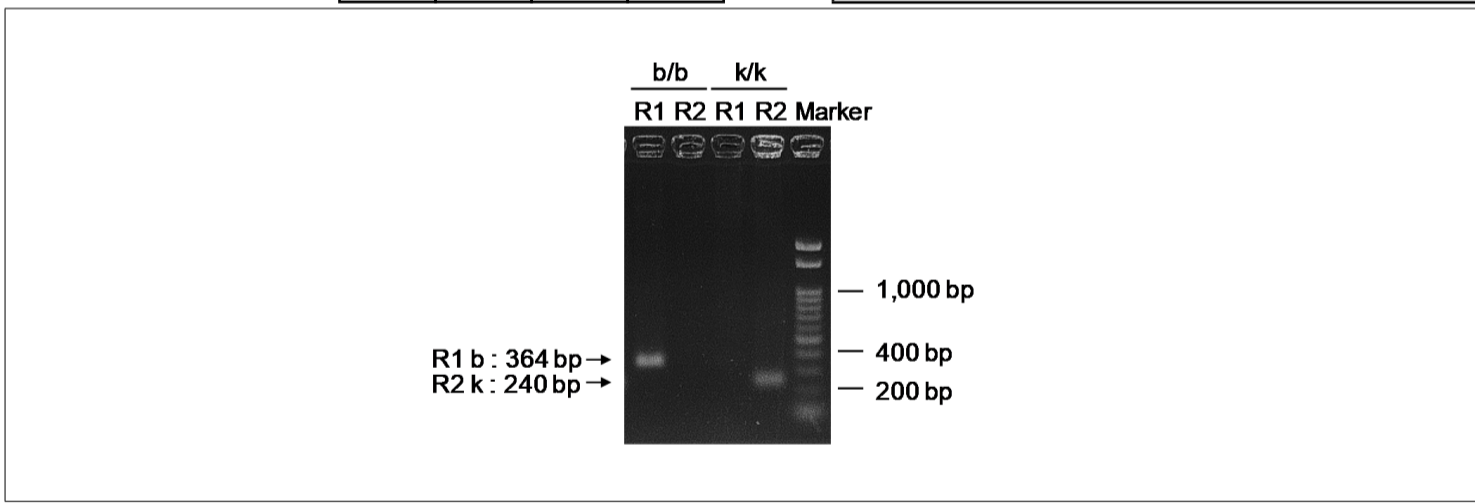
(μL)

Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	65	30*	
4	68	60*	*Repeat for 25 cycles

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 1	364 bp	b	Reaction 1 b/b: 364 bp k/k: none b/k: 364 bp
primer 1	240 bp	k	
			Reaction 2 b/b: none k/k: 240 bp b/k: 240 bp

Comment

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