

RBRC 10096

Strain name C57BL/6J-Hr^{1Utr}

Primer	primer_name	primer_seq	length		Reference
1	exon 3_WT	GGAGAAGACAGCCCCTGTGAACG	23		RIKEN BRC
2	exon 3	CAGGGTCACTCTTGGGATGGC	21		RIKEN BRC
3	exon 3_MT	GGAGAAGACAGCCCCTGTGAATTG	24		RIKEN BRC

Reaction Components

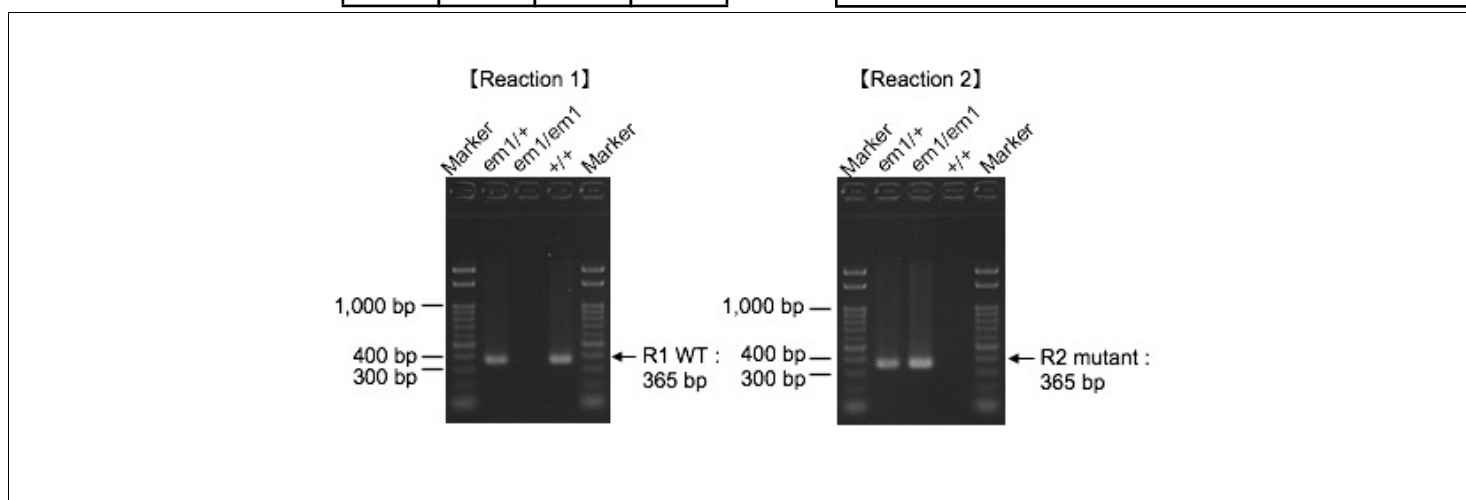
Enzyme: QIAGEN Multiplex PCR Kit (Cat. No. 206143)

Reaction Conditions

step	temp (°C)	time (sec)	note
1	95	900	
2	94	30*	
3	65	90*	
4	72	60*	*Repeat for 25 cycles

Reagent	Conc	Reaction 1	2	3	4	(μ L)
H2O		2.0	2.0			
primer 1	10 pmol/ μ l	1.0	0			
primer 2	10 pmol/ μ l	1.0	1.0			
primer 3	10 pmol/ μ l	0	1.0			
Master Mix	2 X	5.0	5.0			
DNA		1.0	1.0			
total		10	10			

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	365 bp	WT
primer 2	365 bp	mutant

Reaction 1
+/+ (wild-type): 365 bp
em1/+ (heterozygous): 365 bp
em1/em1 (homozygous): none

Reaction 2
+/+ (wild-type): none
em1/+ (heterozygous): 365 bp
em1/em1 (homozygous): 365 bp

Comment Allele specific PCR (ASP)