

RBRC 10062

Strain name C57BL/6J-F9<em1Tsuka>

Primer	primer_name	primer_seq	length	Reference
1	WT	GGAATATATACTAAGGTTTCCCGGTAC	27	RIKEN BRC
2	MT	GGAATATATACTAAGGTTTCCCGGATTA	28	RIKEN BRC
3		GGCTGGACTTACAGAAATGGTG	22	RIKEN BRC

Reaction Components

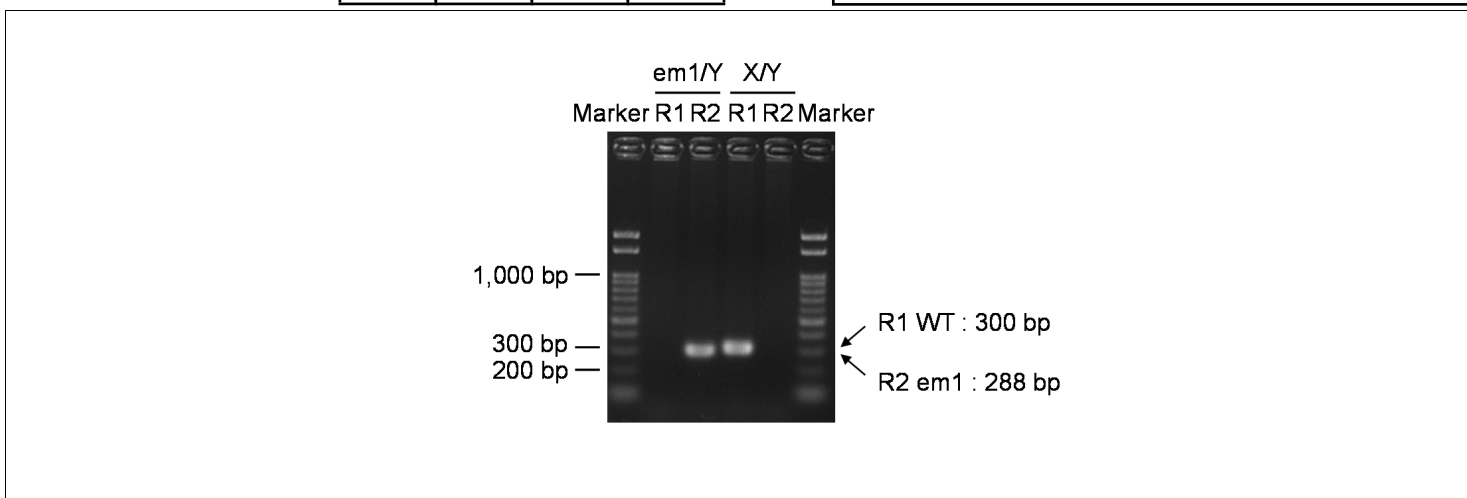
Enzyme QIAGEN Multiplex PCR Kit (Cat. No. 206143)

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

Reaction Conditions

step	temp (°C)	time (sec)	note
1	95	900	
2	94	30*	
3	60	90*	
4	72	60*	*Repeat for 30 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	primer 3	300 bp	WT
primer 2	primer 3	288 bp	em1

Reaction 1
X/X or X/Y: 300 bp
em1/Y: none
Reaction 2
X/X or XY: none
em1/Y: 288 bp

Comment Allele specific PCR (ASP)