

RBRC 10929

Strain name C57BL/6N-Emilin2<em1Suna>

Primer	primer_name	primer_seq	length	Reference
1	exon 1_w	ATGTGTCAGGAGACCCCGCCCCTA	24	RIKEN BRC
2	YKP39/mChr17Ex1R	GAGCATAAGGGACACACTCT	20	Depositor's primer
3	YKP54/mChr17F	GGCGATGGGCCGAGAGATG	19	Depositor's primer
4	YKP56/mChr17KOR	CGACTGGGTGCTCGGGGC	18	Depositor's primer

Reaction Components

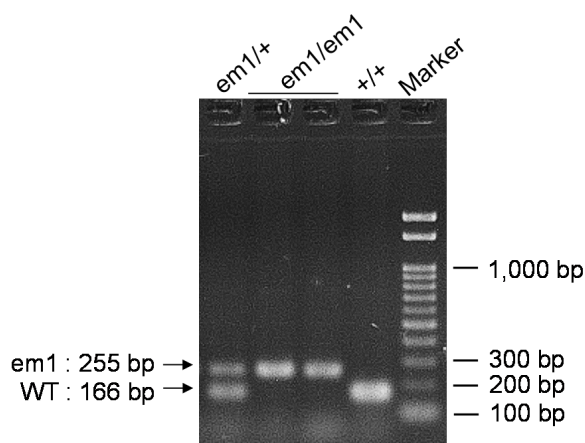
Enzyme	QIAGEN Multiplex PCR Kit (Cat. No. 206143)
--------	--

Reaction Conditions

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

Reagent	Conc	Reaction 1	2	3	4
H2O		1.0			
primer 1	10 pmol/ μ l	0.5			
primer 2	10 pmol/ μ l	0.5			
primer 3	10 pmol/ μ l	0.5			
primer 4	10 pmol/ μ l	0.5			
Q-Solution	5 X	1.0			
Master Mix	2 X	5.0			
DNA		1.0			
total		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	primer 2	166 bp
primer 3	primer 4	255 bp

+/+ (wild-type): 166 bp
em1/em1 (homozygous): 255 bp
em1/+ (heterozygous): 166 bp and 255 bp

Comment Separated PCR