

RBRC 09298

Strain name C57BL/6N-Shank2<em1Rbrc>

Primer	primer_name	primer_seq	length	Reference
1	common	CATGTGGCTCCAGCATCATGAC	22	RIKEN BRC
2	WT	CACAGTATTTCTTTGTCTTCCTAGCAG	27	RIKEN BRC
3	MT	CACAGTATTTCTTTGTCTTCCTAGCAA	27	RIKEN BRC

Reaction Components

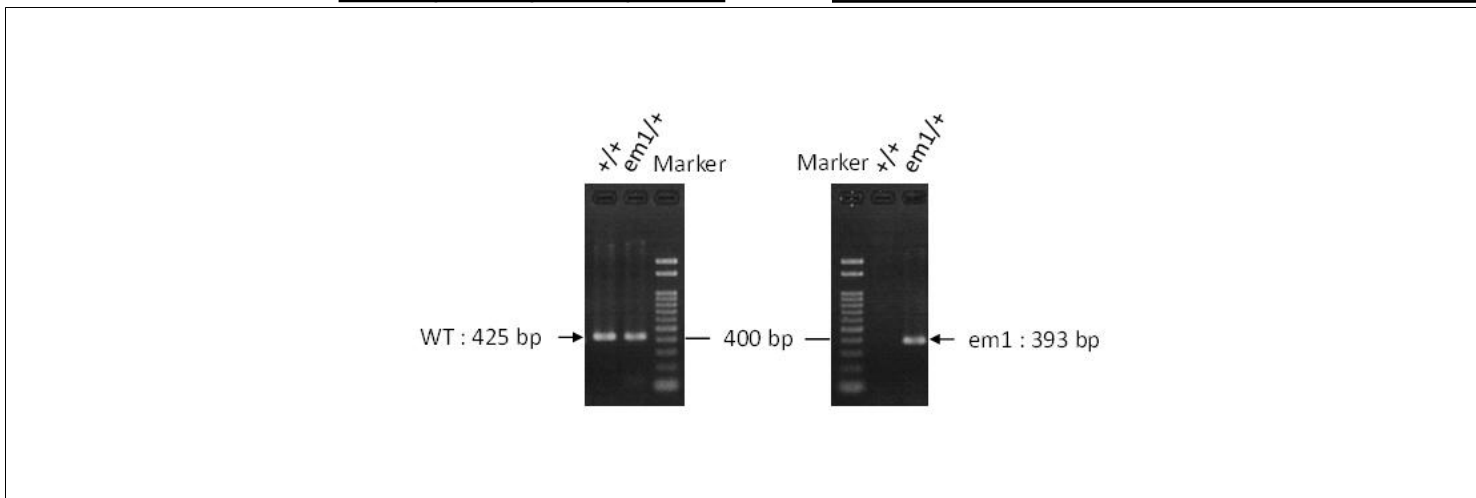
Enzyme Roche Taq (Cat. No. BM1418432)

Reagent	Conc	Reaction 1	2	3	4	(μ L)
H2O		13.3	13.3			
PCR buffer	10 X	2.0	2.0			
dNTP	2.5 mM	1.6	1.6			
primer 1	10 pmol/ μ l	1.0	1.0			
primer 2	10 pmol/ μ l	1.0	0			
primer 3	10 pmol/ μ l	0	1.0			
DNA		1.0	1.0			
Taq	5 U/ μ l	0.1	0.1			
total		20	20			

Reaction Conditions

step	temp ($^{\circ}$ C)	time (sec)	note
1	94	180	
2	94	30*	
3	60	30*	
4	72	60*	*Repeat for 35 cycles
5	72	300	

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	425 bp	WT
primer 1, primer 3	393 bp	em1

Comment Allele specific PCR (ASP)