

RBRC 10965

Strain name FVB-Tns2<em2Nsas>

Primer	primer_name	primer_seq	length	Reference
1	Tns2_F	GCAAGACTTTGGTTGGCCTG	20	Depositor's primer
2	exon 9_wild	CCAAGGTCCCAGCTCACCTTGTA	23	RIKEN BRC
3	exon 9_mut	CCTCAGCACGTGGTTGTGTTGTATA	25	RIKEN BRC
4	Tns2_R	GGGACAGATGAGGAAAGGCC	20	Depositor's primer

Reaction Components

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

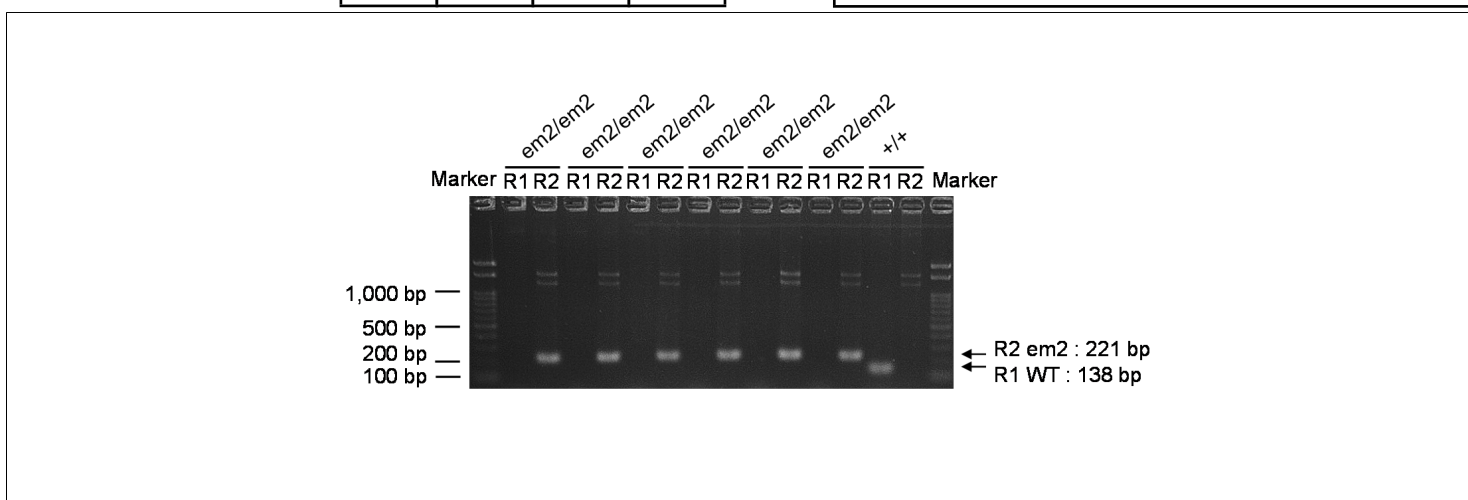
Reaction Conditions

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	(μL)
H2O		2.0	2.0			
primer 1	10 pmol/μl	1.0	0			
primer 2	10 pmol/μl	1.0	0			
primer 3	10 pmol/μl	0	1.0			
primer 4	10 pmol/μl	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	primer 2	138 bp	WT
primer 3	primer 4	221 bp	em2

Reaction 1
+/+ (wild-type): 138 bp
em2/em2 (homozygous): none

Reaction 2
+/+ (wild-type): none
em2/em2 (homozygous): 221 bp

Comment Allele specific PCR (ASP)