

RBRC 10897

Strain name C57BL/6J-Otx2<em1(tdTomato)Utr>

Primer	primer_name	primer_seq	length	Reference
1	Otx2 to stop F	GGATCTTATTTGACCCCTATGCATCACC	28	Depositor's primer
2	Otx2 to stop R	CTTTGATCAGGAGTCTGAGAGCATCGTT	28	Depositor's primer
3	rGpA to Outside F2	GAATTCACCTCCTCAGGTGCAGGCTGCC	27	Depositor's primer

Reaction Components

Enzyme TOYOBO KOD FX (Code.No : KFX-101)

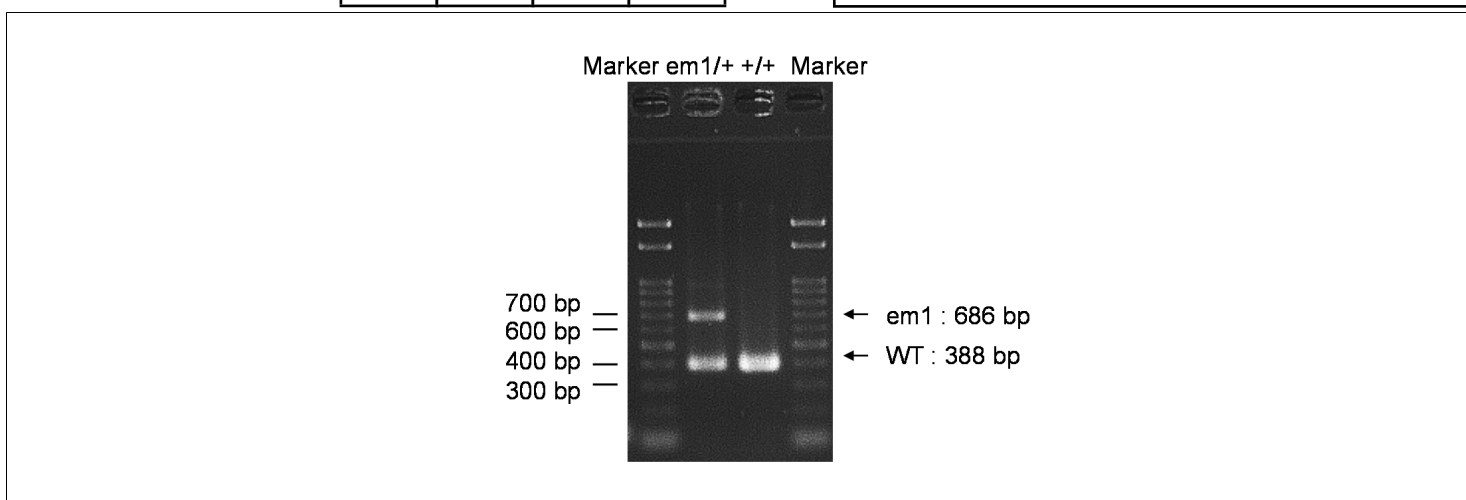
Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	60*	*Repeat for 30 cycles

Reagent	Conc	Reaction 1	2	3	4	(μL)
H2O		1.8				
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
total		20				

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	388 bp	WT
primer 2	primer 3	686 bp	em1

+/+ (wild-type): 388 bp
em1/+ (heterozygous): 388 bp and 686 bp

Comment [Standard PCR](#)

Novagen KOD Xtreme™ Hot Start DNA Polymerase can be purchased from EMD.