

RBRC 11621

Strain name C57BL/6J-Prdx4^{em2Jufu}

Primer	primer_name	primer_seq	length	Reference
1	wild	GTTGCCGTTACAGTGGCATG	20	RIKEN BRC
2	exon1 primer_a	CCTTCCCTAGCCTCCTGCT	19	Depositor's primer
3	common	TGTCATTGGCTGAAGGCCTCAG	22	RIKEN BRC
4	MT	CAGAGACTCGACTGTGGCTCGG	22	RIKEN BRC

Reaction Components

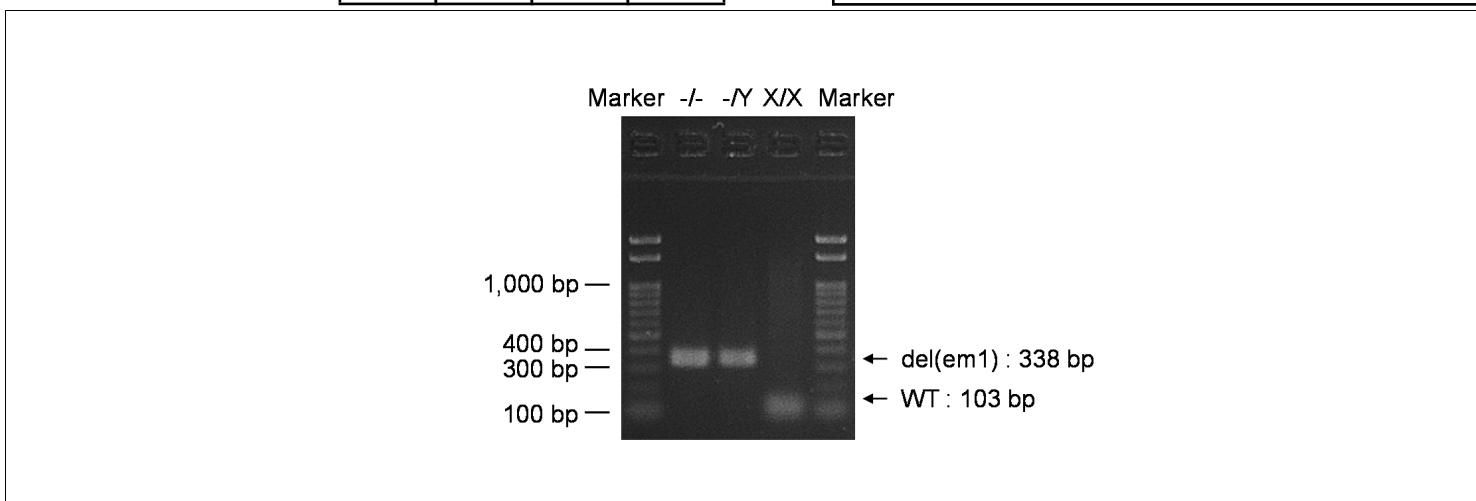
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	63	30*	
4	68	60*	*Repeat for 30 cycles

Reagent	Conc	Reaction 1	2	3	4	(μL)
H2O		0.8				
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				
primer 4	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	103 bp	WT
primer 3 / primer 4	338 bp	del(em1)

Comment Standard PCR

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