

RBRC 11603

Strain name C57BL/6J-Prdx4^{em1Jufu}

Primer	primer_name	primer_seq	length	Reference
1	WT	GGAACAGCTGTGATTAACGGAGAATTG	27	RIKEN BRC
2	intron 2	GGATAACAAATGACAAAGACTGGCAC	26	RIKEN BRC
3	intron 1	CGTGCTGTGTAATAGCTATTGCAGG	25	RIKEN BRC
4	MT	CGATAGTCAGTCAGTTTGAGCTCTG	25	RIKEN BRC

Reaction Components

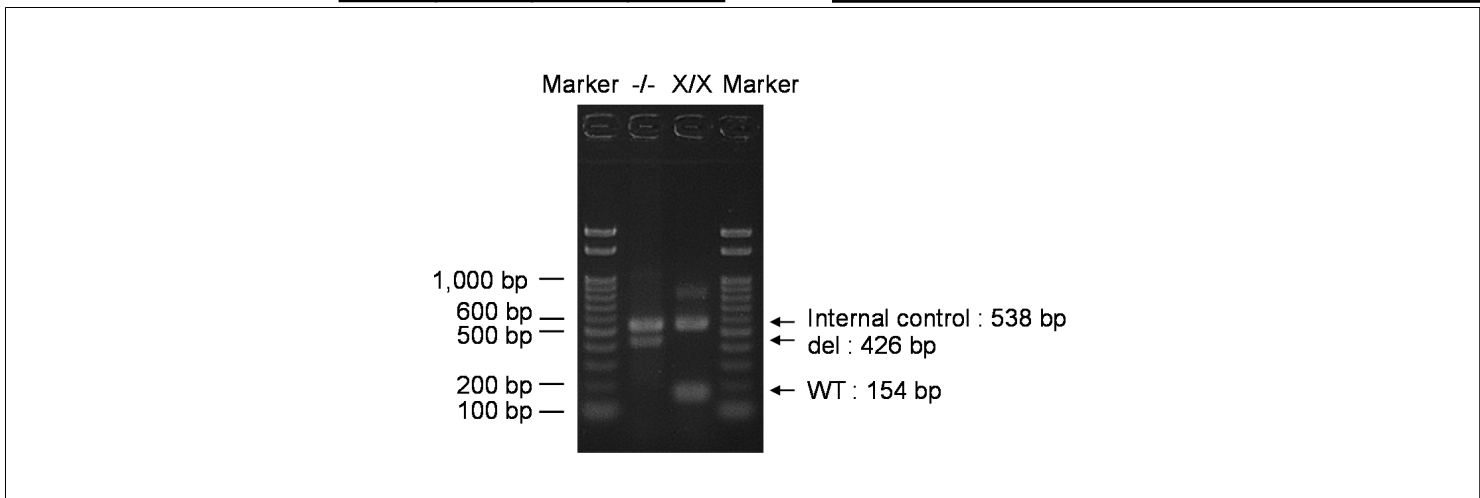
Enzyme

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	(μ L)
primer 1	10 pmol/ μ l	1.0				
primer 2	10 pmol/ μ l	1.0				
primer 3	10 pmol/ μ l	1.0				
primer 4	10 pmol/ μ l	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	154 bp	WT	X/X or X/Y (wild-type): 538 bp and 154 bp -/- (homozygous): 538 bp and 426 bp
primer 3	primer 4	426 bp	del (em1)	
primer 2	primer 3	538 bp	Internal control	

Comment Separated PCR