



PCR protocol

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RBRC 11720

Strain name C57BL/6-Abca4^{<em1Tfur>}

Primer	primer_name	primer_seq	length		Reference
1	mAbca4-PCR-51	CGTAAACAAGGGGAGAGACAGAGCGTC	27		Depositor' s primer
2	mAbca4-PCR-31	CAGAGGGTAGGTACACACACTCCCACA	27		Depositor' s primer

Reaction Components

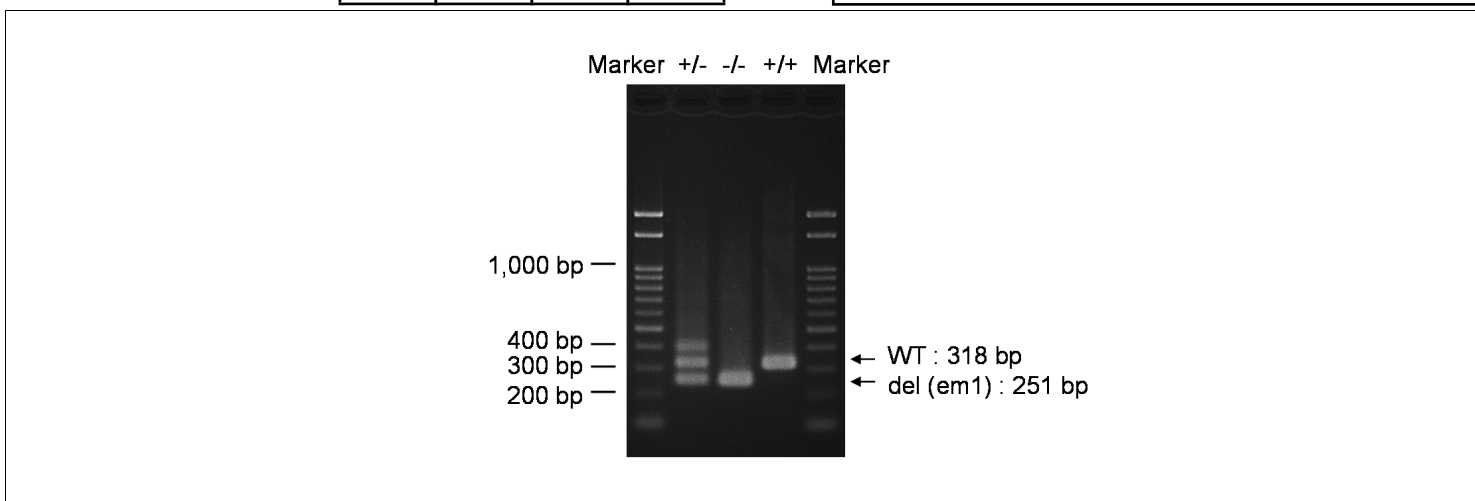
Enzyme

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	(μ L)
H2O		2.8				
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/ μ l	1.0				
primer 2	10 pmol/ μ l	1.0				
DNA		1.0				
Taq	1 U/ μ l	0.2				
total		20				

Marker	Gene Ladder 100 (Wako, Cat. 316-06951)
Gel	2% agarose in 1 X TAE (100 V, 40 min)



primer_set	product_size	product (allele type)	
primer 1 primer 2	318 bp	WT	+/+ (wild-type): 318 bp -/- (homozygous): 251 bp +/- (heterozygous): 318 bp and 251 bp
primer 1 primer 2	251 bp	del (em1)	

Comment [Standard PCR](#)

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