RIKEN BRC

Sep. 5, 2006

BRC_No 01723 **Strain name** CAD Knockout mouse

Primer

	primer_name	primer_seq	length
1	CAD-sense primer	AAAAGAACAGTCGGGACTGC	20
2	CAD-antisense primer	TTCACACCAGGAGACATCTG	20
3	Neo R primer	GATTCGCAGCGCATCGCCTTCTATCG	26

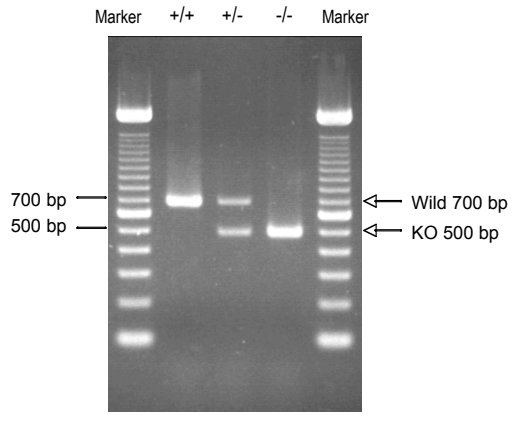
Reaction Components

Enzyme Roche Taq (Cat. No. BM1418432)

	Conc	Run 1	Run 2	Run 3
H2O		3.8		
PCR buffer	2 X	10.0		
dNTP	2.5 mM	2.0		
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		0.2		
		total	20	

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30	*
3	62	30	*
4	72	60	* *Repeat for 30 cycles
5	72	300	



Marker

100 bp ladder (Invitrogen, Cat. 15628-050)

Gel

2% agarose in 1 X TAE (100 V, 30 min)

PCR products

primer_set		product_size	product
primer 1	primer 2	700 bp	wild
primer 2	primer 3	500 bp	KO

Comment