

RBRC 02948

Strain name C57BL/6-Cadps2<tm1Tfr>

Primer	primer_name	primer_seq	length	Reference
1	CAPS2(F)	TACAGAAAGCCTGCAGGACT	20	Depositor's primer
2	CAPS2(R-WT2)	AATGTCGAGGAGCGGAC	17	Depositor's primer
3	CAPS2(R-KO2)	GCCTCTGTTCCACATACACT	20	Depositor's primer

**Reaction Components**

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

Reagent	Conc	Reaction 1	2	3	4
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			
<b>total</b>		20			

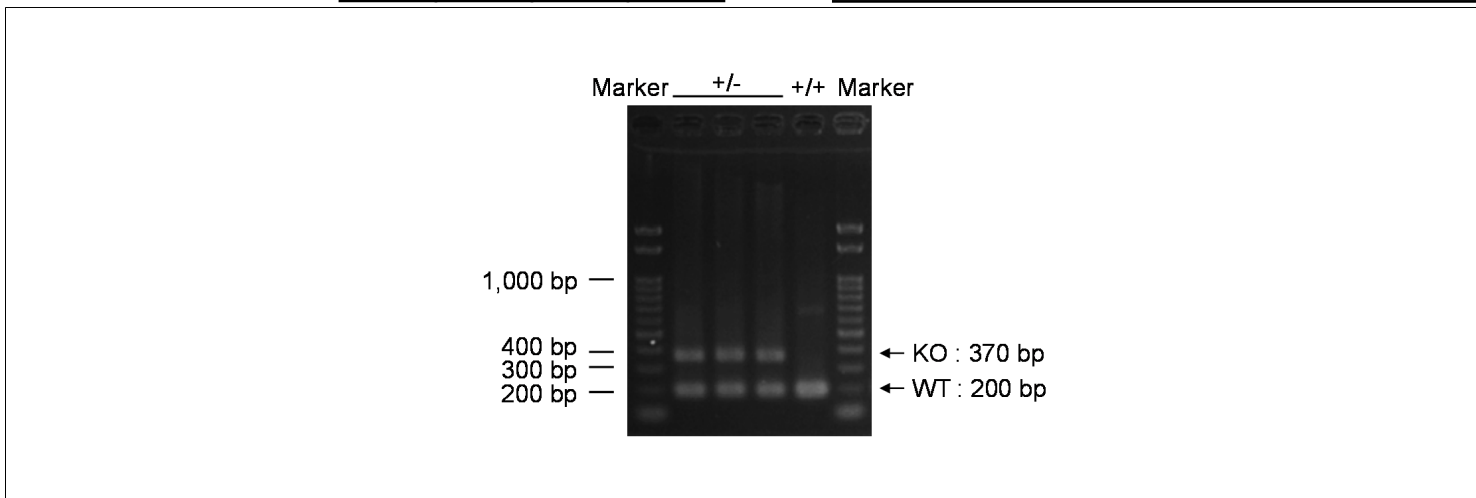
(μL)

**Reaction Conditions**

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

**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	200 bp	WT
primer 1	primer 3	370 bp	KO

+/+ (wild-type): 200 bp  
+/- (heterozygous): 200 bp and 370 bp

**Comment** Standard PCR

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