

RBRC 10979

Strain name B6Jcl.Cg-Mdga2<tm1Tymo>

Primer	primer_name	primer_seq	length	Reference
1	m29-2 check1 for	GTACGGTCTCGTGTGGCT	18	Neuron, 91(5):1052-1068 (2016).
2	m29-2 check1	AGACTGCAAGAGCCCATGTTTC	22	Neuron, 91(5):1052-1068 (2016).
3	Neo KO P1	ACCGCTTCCTCGTGCTTTACGGTATC	26	Neuron, 91(5):1052-1068 (2016).

Reaction Components

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

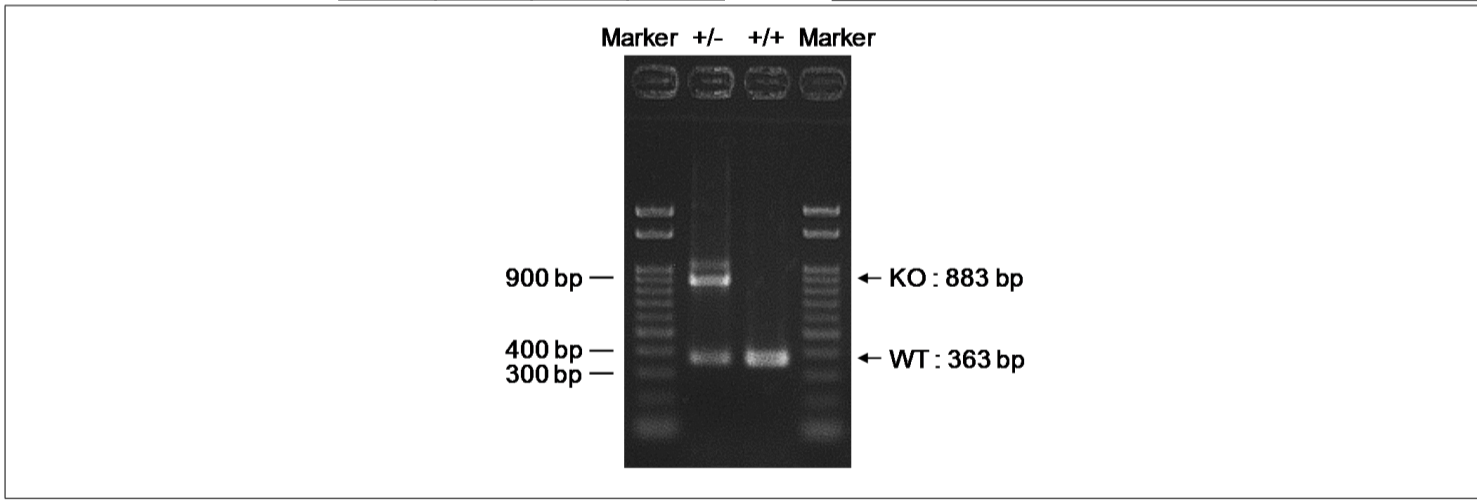
Reaction Conditions

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

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			
total		20			

(μL)

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	363 bp WT
primer 2	primer 3	883 bp KO

+/+ (wild-type): 363 bp
+/- (heterozygous): 363 bp and 883 bp
-/- (homozygous): 883 bp

Comment [Standard PCR](#)

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