

# PCR protocol

RBRC 02099

Strain name Plexin-A4 KO

Primer	primer_name	primer_seq	length
1	P1	GTAGAGGTGCCCATTTGGCTGTGAGCGC	27
2	P2	GCCAACAAGAGACCAGAATGAGGTGCC	27
3	P3	TACCCGTGATATTGCTGAAGAGCTTGG	27

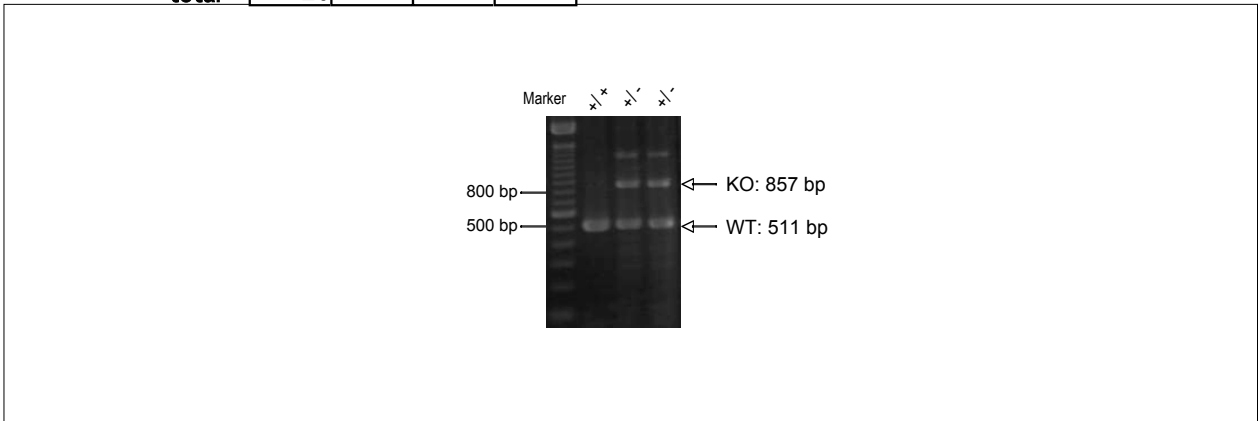
### Reaction Components

Enzyme	TaKaRa LA Taq with GC buffer (Cat. No. RR02AG)
--------	--

### Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	180	
2	94	30*	
3	63	30*	
4	72	60*	*Repeat for 30 cycles
5	72	300	

Conc	Run 1	Run 2	Run 3	Run 4
<b>H2O</b>	3.8			
<b>PCR buffer</b>	2 X GC I 10.0			
<b>dNTP</b>	2.5 mM 2.0			
<b>primer 1</b>	10 pmol/ $\mu$ l 1.0			
<b>primer 2</b>	10 pmol/ $\mu$ l 1.0			
<b>primer 3</b>	10 pmol/ $\mu$ l 1.0			
<b>DNA</b>	1.0			
<b>Taq</b>	0.2			
<b>total</b>	<b>20</b>			



### 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	511 bp	WT
primer 2	primer 3	857 bp	KO

**Comment**