PCR protocol

RBRC 02280 **Strain name** B6.129S4-Ephb6<tm1Tom>

Primer	primer_name	primer_seq	length		
1	EphB6 F	GGAATAACTCCTACCAGACAAGAAGG	26		
2	EphB6 R	CAGAGCTAGAACTGATGACCCTAG	24		
3	Neo	AGCTCATTCCTCCCACTCATGATC	24		

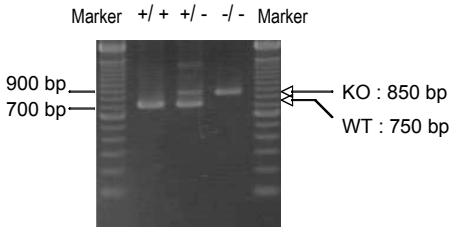
Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		16.3			
PCR buffer	10 X	2.5			
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	25			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30*	
3	60	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	750 bp	WT
	primer 3	850 bp	KO

Comment