


Genotyping Report

Strain ID	T052281	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	<i>Fgfr1</i>		

1. Strategy of Genotyping



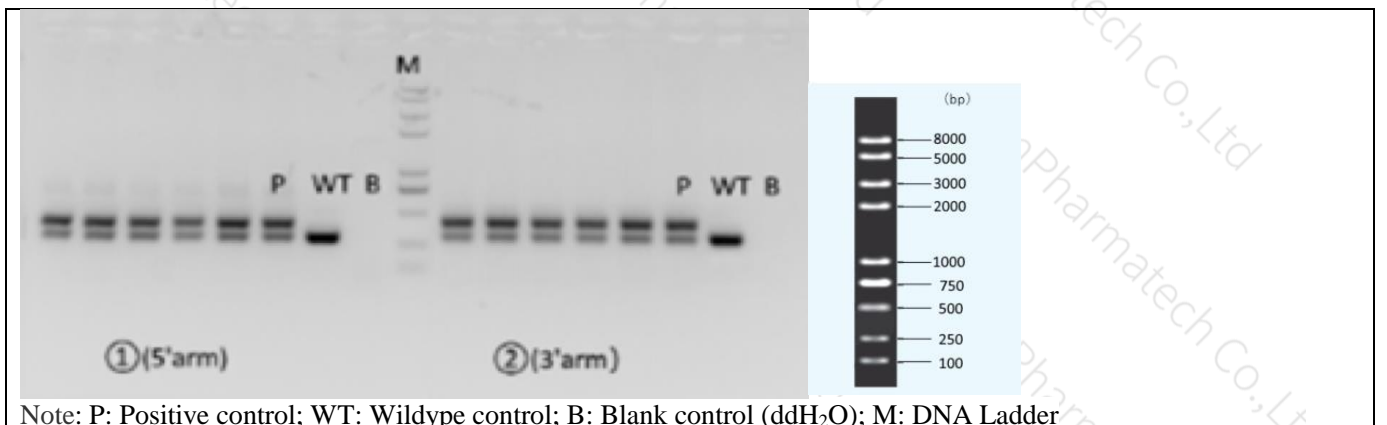
▶ Loxp ➔ Primer ① ② PCR Reaction Number — Sequencing Region

Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.
 Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a WT band and a Targeted band.
 Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.
 Note: The sizes of WT and Targeted band are shown below.

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
①(5'arm)	T052281-F1	AGAAGATTCTGATTGCAGGCTGG	WT:291bp Targeted:372bp
	T052281-R1	TTAAGAGCTGTGTGCTCCAGTGC	
②(3'arm)	T052281-F2	TCAGATTCCTGGGAATTGCAGTG	WT:311bp Targeted:389bp
	T052281-R2	TCTAGGCCAGGCAGAGCTAAGG	

3. Gel Image & Conclusion





4. PCR Condition

PCR Reaction Component			
Seg.	reaction component		Volume (μ l)
1	2 \times Taq Master Mix , Dye Plus, (Vazyme P112-03)		12.5
2	ddH ₂ O		9.5
3	Primer A(10pmol/ μ l)		1
4	Primer B(10pmol/ μ l)		1
5	Template(\approx 100ng/ μ l)		1
PCR program			
Seg.	Temp.	Time	Cycle
1	95 $^{\circ}$ C	5min	
2	98 $^{\circ}$ C	30s	20 \times
3	65 $^{\circ}$ C (-0.5 $^{\circ}$ C/cycle)	30s	
4	72 $^{\circ}$ C	45s	
5	98 $^{\circ}$ C	30s	
6	55 $^{\circ}$ C	30s	20 \times
7	72 $^{\circ}$ C	45s	
8	72 $^{\circ}$ C	5min	
9	10 $^{\circ}$ C	hold	

Reviewer:Ting Sun

Date:2021-7-23