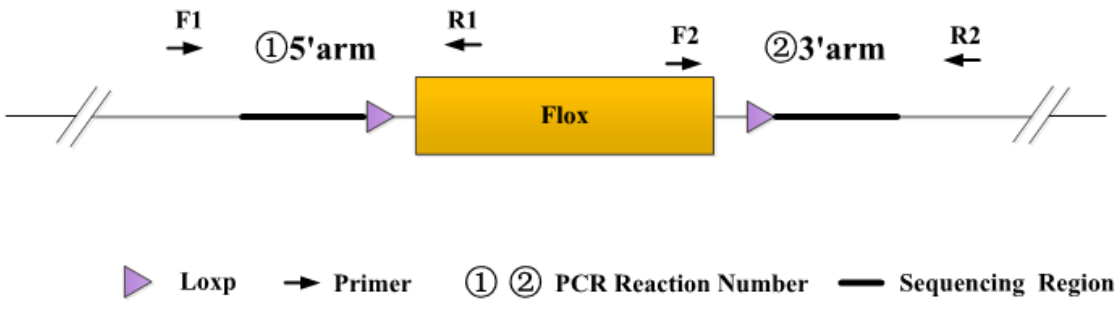


## Genotyping Report

Strain ID	T005464	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	<i>Ii7r</i>		

### 1. Strategy of Genotyping

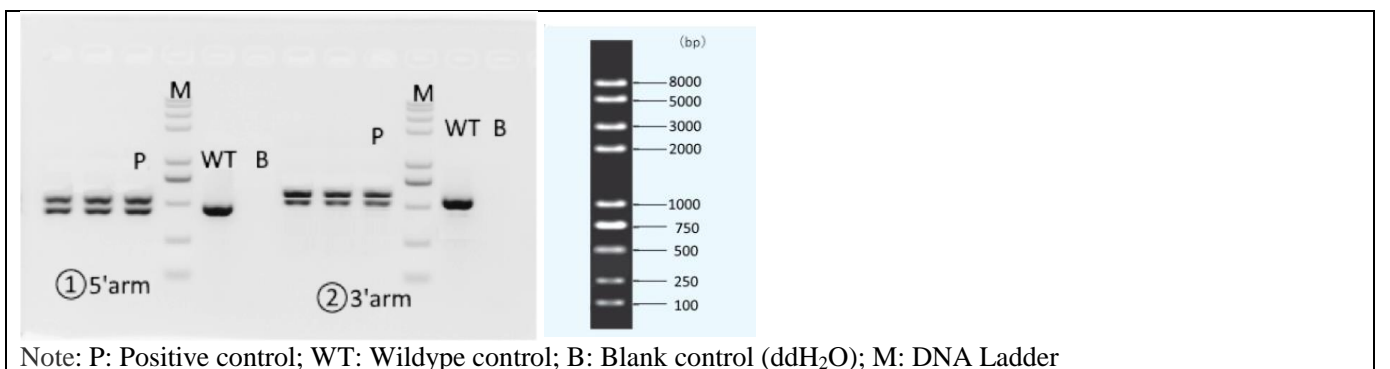


Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.  
 Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a WT band and a Targeted band.  
 Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single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

### 2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
①(5'arm)	F1	JS00421-II7r-5wt-tF2	GTGCACTTGGAACCAGAATCATTAT	WT:441bp Targeted:522bp
	R1	JS00421-II7r -5wt-tR2	CATAGTGGAGGAACAAGTTCCAGGT	
②(3'arm)	F2	JS00421-II7r-3wt-tF2	TTCCACTAAACATGAACCTTACCAC	WT:540bp Targeted:618bp
	R2	JS00421-II7r-3wt-tR2	CACTGTCTTTACTGGAAGTAAAGGT	

### 3. Gel Image & Conclusion



#### 4. PCR Condition

PCR Reaction Component			
Seg.	reaction component		Volume ( $\mu$ )
1	2 $\times$ Taq Master Mix , Dye Plus, (Vazyme P112-03)		12.5
2	ddH <sub>2</sub> O		9.5
3	Primer A(10 $\mu$ mol/ $\mu$ l)		1
4	Primer B(10 $\mu$ mol/ $\mu$ l)		1
5	Template( $\approx$ 100ng/ $\mu$ 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:2020-5-12