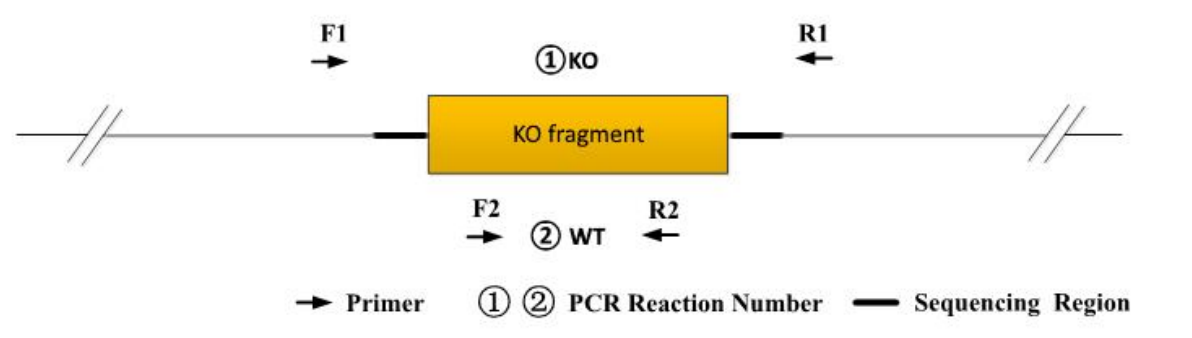


Genotyping Report

Strain ID	T005577	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name	<i>Il27ra</i>		

1. Strategy of Genotyping



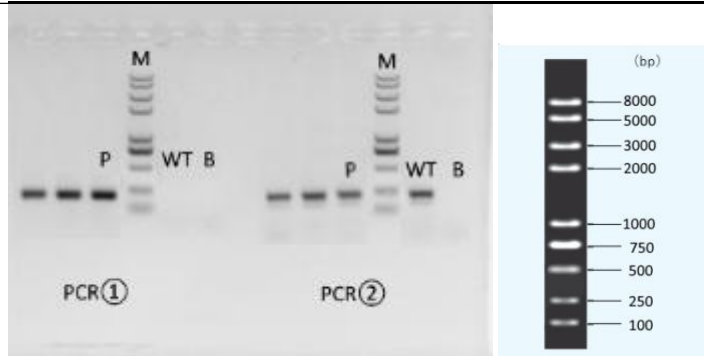
Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.
 Heterozygote: ①PCR reaction obtains a WT band and a KO band; ②PCR reaction obtains a WT band.
 Homozygote: ①PCR reaction obtains a single KO band; ② PCR reaction without product.
 Note: 1)The sizes of WT and Targeted band are shown below.
 2)If the WT band is too large, it may not be possible to obtain a WT band.

2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
PCR①	F1	JS00443- IL27RA - 5wt-tF1	ATGTAACCTCAGCAGAGGCAGTC	WT: 6812bp KO:199bp
	R1	JS00443- IL27RA - 3wt-tR1	TGAATGTCTGCCTGTGTACCA	
PCR②	F2	JS00443- IL27RA - wt-tF1	CTATGATCCCACCTGCTCAAG	WT: 217bp
	R2	JS00443- IL27RA - wt-tR1	TGTAGAGTTCAGCCATGCCCA	

3. Gel Image

ttcagctcaacaatgagtgaactccaga----- 6613bp ----- ggtttggttccagcatccacatagcagct



Note: P: Positive control; W: Wildtype control; B: Blank control (ddH₂O); M: DNA Ladder

4. PCR Condition

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

Reviewer:Ting Sun

Date:2020-6-17