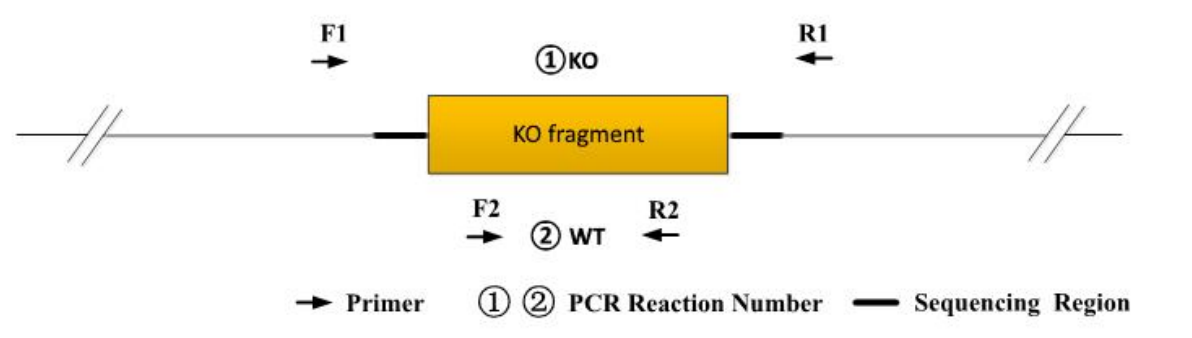


Genotyping Report

Strain ID	T011965	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Dongdong Zhang	Gene Name	<i>Ptprc</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 GC: <40%	F1	JS04054-Ptprc-5wt-tF1	CTTCCACCCAGTGACATTATAGCC	WT:28932bp KO: 350bp
	R1	JS04054-Ptprc-3wt-tR1	GTGGAGACTATGTGTGAGCAAGC	
PCR②	F2	JS14054-Ptprc-wt-tF1	CTAACCTCAGGTGTGTTATCCACG	WT:382bp KO:0bp
	R2	JS14054-Ptprc-wt-tR1	ACAGAACAATGCTGTAGCCTCAG	

3. Gel Image

atatatatgcaatatccttctgatccgtgt---28582bp---aggaccatagaccattgaatggtattttg
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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	
6	55 °C	30s	20×
7	72 °C	45s	
8	72 °C	5min	
9	10 °C	hold	

Reviewer:Ting Sun

Date:2020-7-1