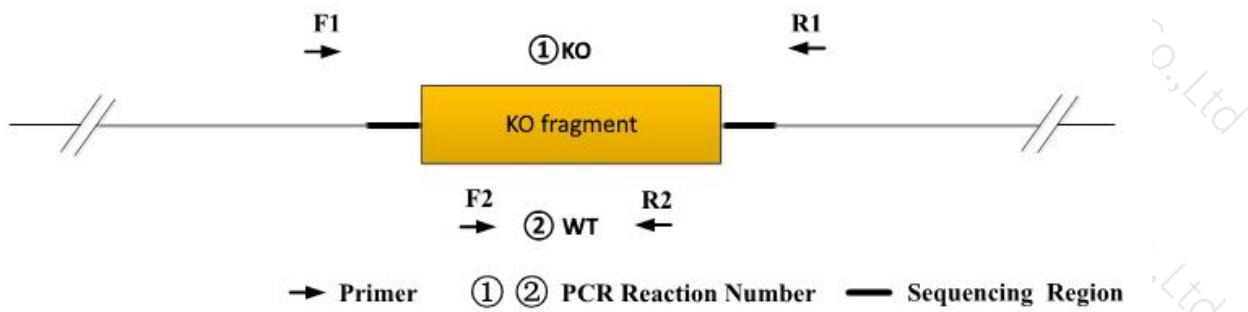




Genotyping Report

Strain ID	T027397	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name			<i>inpp5d</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; ②PCR reaction without product.

Note: 1)The sizes of WT and Targeted band are shown below.

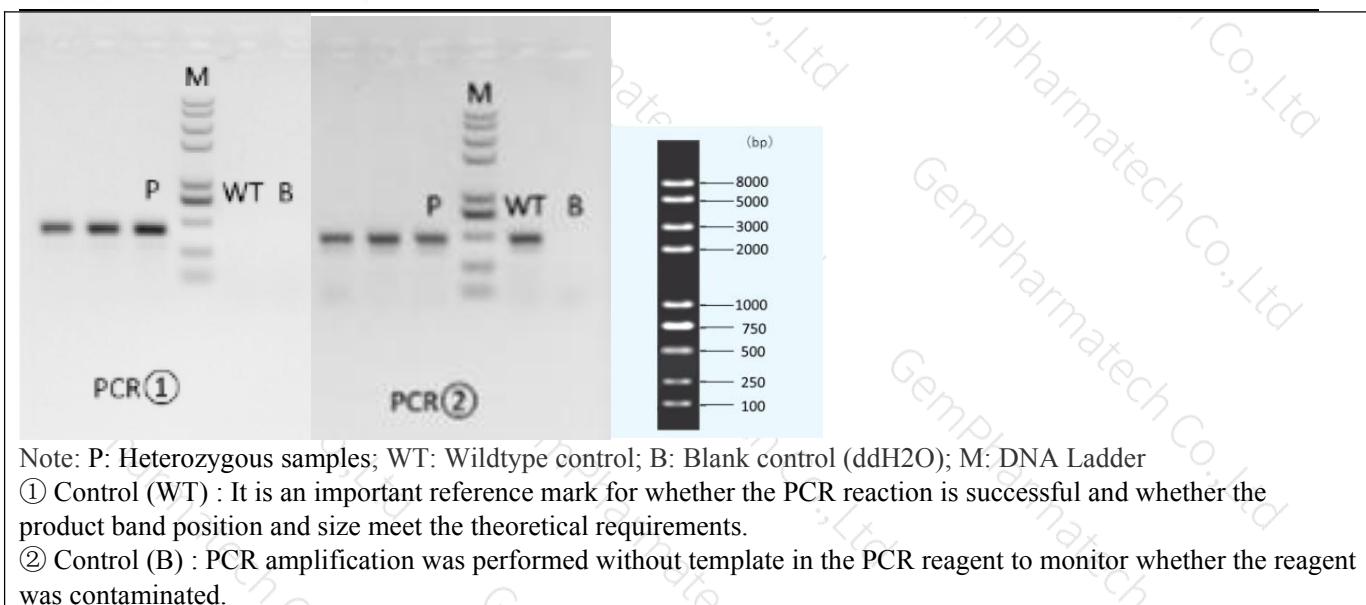
2) If the WT band is too large, it may not be possible to obtain a WT band.

2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
PCR①	F1	T027397(P2)-F1A	AGCTCTCCAACCCAGTGTCTGA	WT:84521bp KO:406bp
	R1	T027397(P2)-R1A	ATGTGAAAGAGGCCACACTGTCCTA	
PCR②	F2	T027397(P2)-F2	ACGAAGCCCGAGATGTTGAGAAC	WT:462bp KO:0bp
	R2	T027397(P2)-R2	TCTGCCTTGGAAATGTTGCAGC	

3. Gel Image

tggtaactggggagcctcacccctggccat---84115bp---gtgttgattaaatccaaagtctccactg



4. PCR Condition

PCR Reaction Component

Seg.	reaction component	Volume (μl)
1	2 × Rapid Taq Master Mix (Vazyme P222)	12.5
2	ddH ₂ O	9.5
3	Primer A(10pmol/μl)	1
4	Primer B(10pmol/μl)	1
5	Template(20~80ng/μl)	1

PCR program I (priority selection)

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	15×
6	55 °C *	30s	
7	72 °C	45s*	
8	72 °C	5min	
9	10 °C	hold	

PCR program II (the second choice)

Seg.	Temp.	Time	Cycle
1	95 °C	5min	
2	98 °C	30s	35×



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3	58°C*	30s	
4	72°C	45s*	
5	72°C	5min	
6	10°C	hold	

Note*: Annealing temperature and extension time can be determined according to the actual amplification situation and amplification enzyme efficiency.