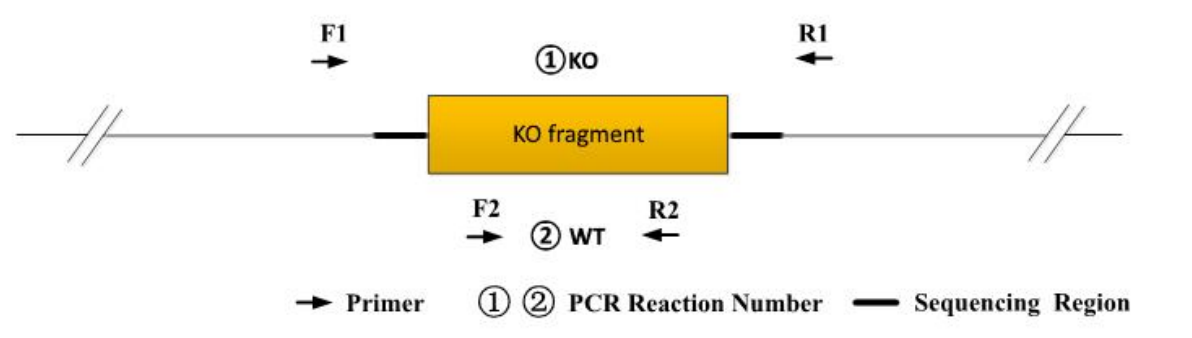


Genotyping Report

Strain ID	T014293	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Hao Yan	Gene Name	<i>Dpp4</i>		

1. Strategy of Genotyping



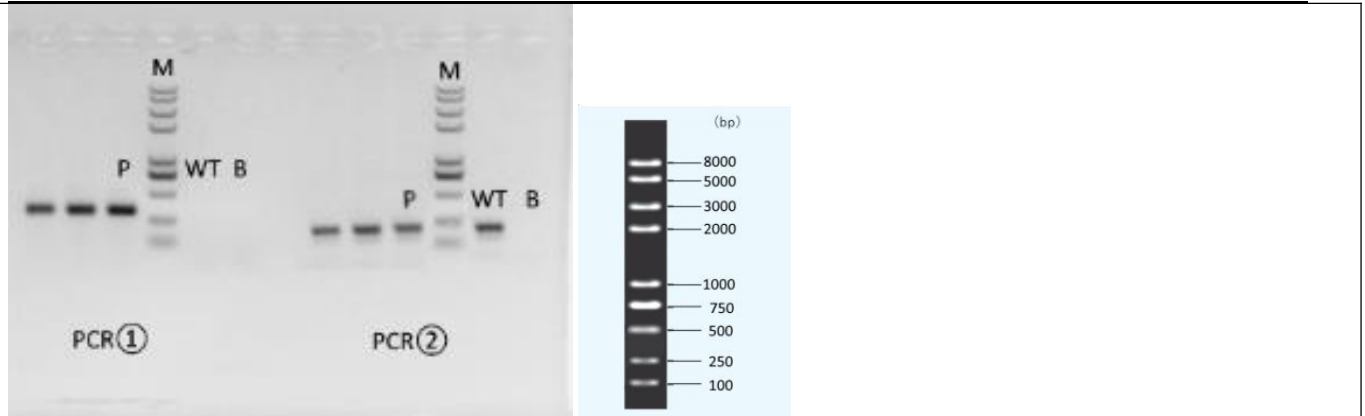
Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.
 Heterozygote: ①PCR reaction obtains a WT band and a KO band; ②PCR reaction obtains a WT band.
 Homozygote: ①PCR reaction obtains a single KO band; ② PCR reaction without product.
 Note: 1)The sizes of WT and Targeted 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.	Sequence	Band Size
PCR①	T014293-F1	TTGAGTCCCTACTAGCAGAATATAGAGC	WT:3260bp KO:331bp
	T014293-R1	TCAGGTAAAGTGCCTGGTGACCAT	
PCR②	T014293-F2	TCCTCCCATGTTCTACCATGTTGG	WT:229bp KO:0bp
	T014293-R2	CCACACAAATGACAGTGGTATGAGG	

3. Gel Image

cagaaggcagatctgtgctacaccatctc---2929bp---ttattcaagccaatcttgaatggagcttag



Note: P: Positive control; WT: 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	
7	72 °C	45s	
8	72 °C	5min	
9	10 °C	hold	