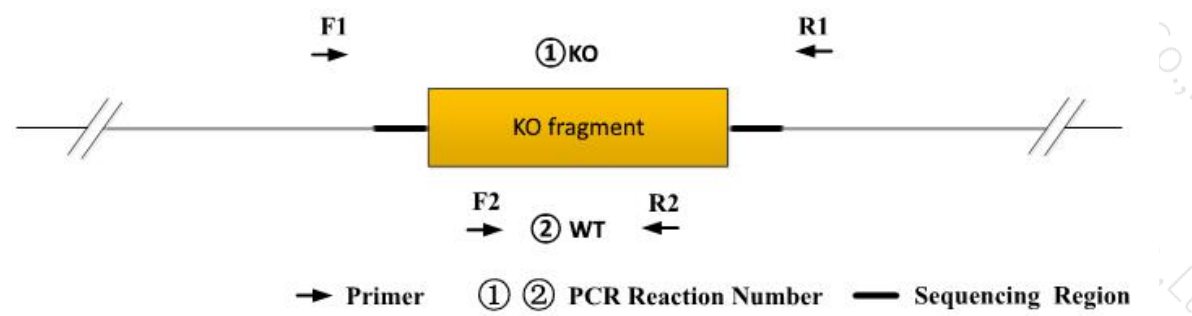


## Genotyping Report

Strain ID	T027426	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name	<i>Prdm4</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.

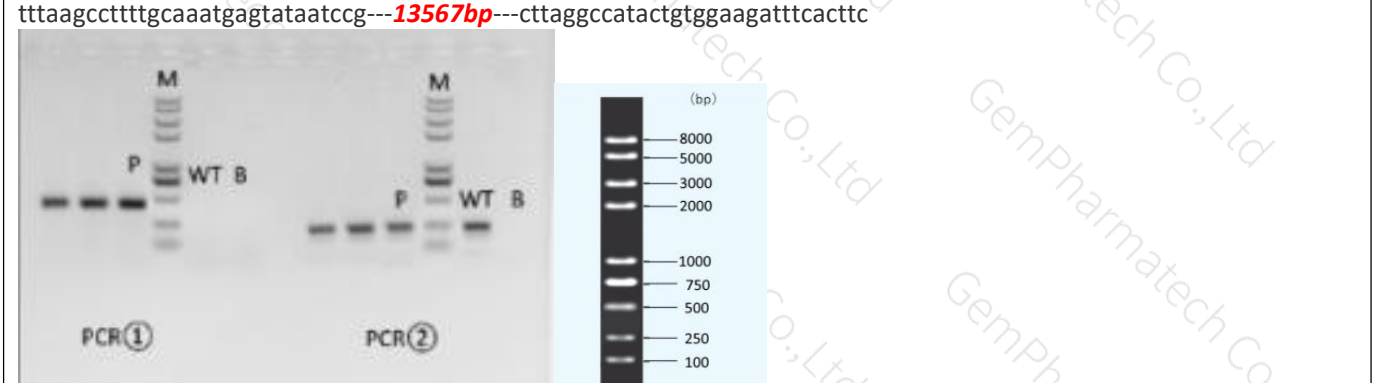
Note: 1)The sizes of WT and Targeted band are shown below.  
 2)If the WT band is too large, it may not be possible to obtain a WT band.

### 2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
PCR①	F1	JS08359-Prdm4-5wt-tF1	AACCCATCTGTTTAGTCCCTTAGC	WT:14000bp KO:433bp
	R1	JS08359-Prdm4-3wt-tR1	CTCAAGCACTGCTTGTGTATGGTC	
PCR②	F2	JS18359-Prdm4-wt-tF1	GAGTGACCTTGCTCCCAATCTTC	WT:230bp KO:0 bp
	R2	JS18359-Prdm4-wt-tR1	ATAGTAACACAAACCAGGCGTGG	

### 3. Gel Image

ttttaagccttttgcaaatgagtataatccg---**13567bp**---cttaggccatactgtggaagatttcacttc



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	ddH2O	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℃	5min	
2	98℃	30s	20×
3	65℃ (-0.5℃/cycle)	30s	
4	72℃	45s	
5	98℃	30s	20×
6	55℃	30s	
7	72℃	45s	
8	72℃	5min	
9	10℃	hold	