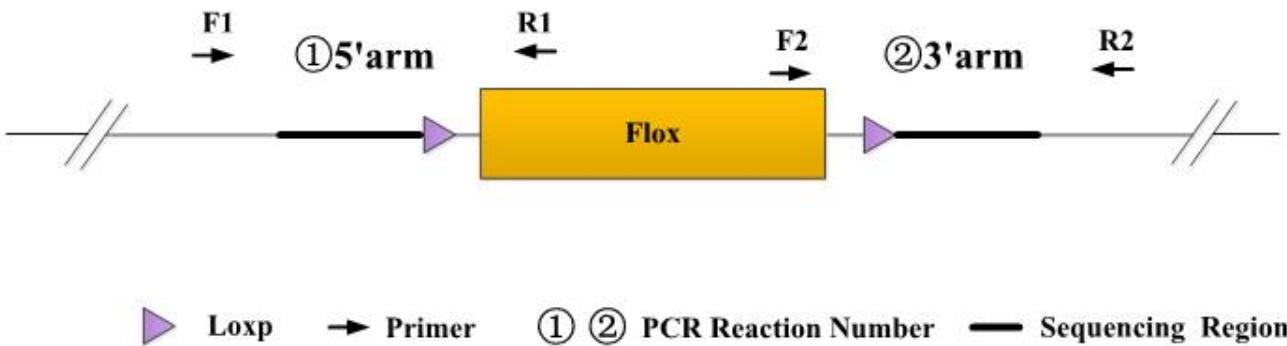




Genotyping Report

Strain ID	T052109	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name			<i>ATG16L1</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 Targeted band; ②PCR reaction obtains a WT band and a Targeted band.

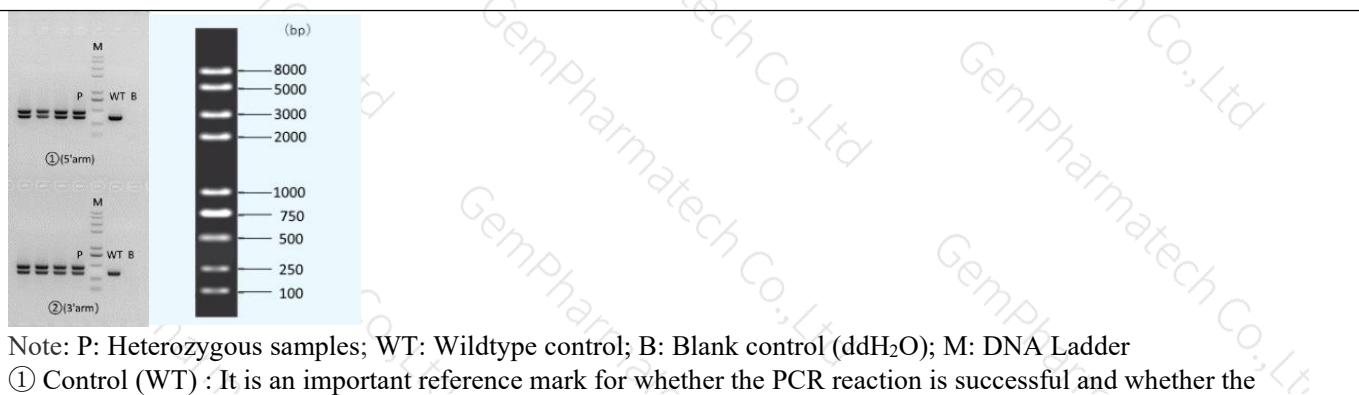
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

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

2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
①(5'arm)	F1	T052109(P2)-F1	TCTGACTACATCTTCAAGCCCTGTC	WT: 355bp Targeted: 460bp
	R1	T052109(P2)-R1	CCAGTCTGTCCTGTAACTTGCTTTG	
②(3'arm)	F2	T052109(P2)-F2	TCAGACAAACAGCCTCCTTCAAG	WT: 330bp Targeted: 436bp
	R2	T052109(P2)-R2	CGTCACACTAAAATCTAGCACTGGC	

3. Gel Image & Conclusion





product band position and size meet the theoretical requirements.

② Control (B) : PCR amplification was performed without template in the PCR reagent to monitor whether the reagent was contaminated.

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×
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.