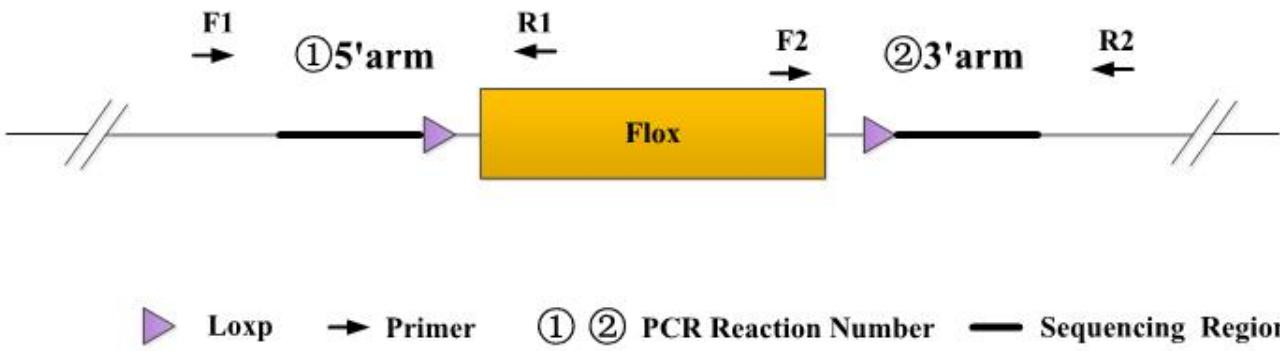




Genotyping Report

Strain ID	T007812	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name			<i>Ldb3</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.

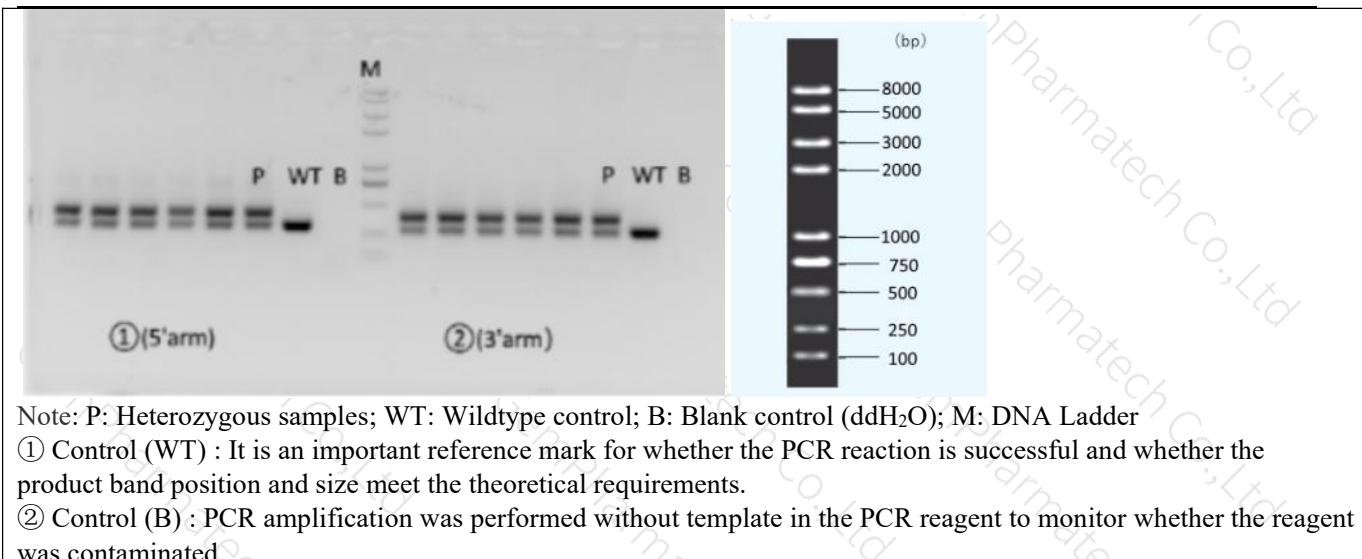
Note: The sizes of WT and Targeted band are shown below.

2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
①(5'arm)	F1	JS01791-Ldb3-5wt-tF1	CGAAGATGGAGCATCCAGCC	WT: 280bp Targeted:382bp
	R1	JS01791-Ldb3-5wt-tR1	CTTAACACTTCCTGCCTCCAGTC	
②(3'arm)	F2	JS01791-Ldb3-3wt-tF1	GGATGGGCTGAAATCATTATCAGG	WT: 263bp Targeted:366bp
	R2	JS01791-Ldb3-3wt-tR1	AGGAGGCCCTGGACTTGACCA	

3. Gel Image & Conclusion





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	



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2	98°C	30s	35x
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.