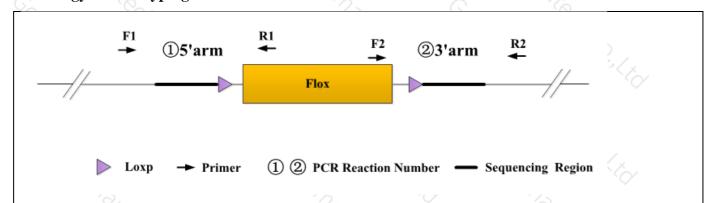


Genotyping Report

Strain ID	T019096	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	3/2	Vtn	S

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.

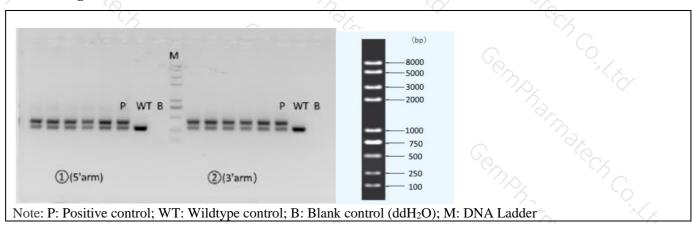
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

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

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
①(5'arm)	T019096-F1	T019096-F1 AACACCTGATGAGGCAAGGCAC	
	T019096-R1 TTTATTTGCTCATCCTCTGGCCC		Targeted:387bp
②(3'arm)	T019096-F2	TCGATCAAGAGCTGTTTGCTCTGG	WT: 276bp
	T019096-R2	CCAGCTCCAGTAGGACCTTTAGAAC	Targeted:382bp

3. Gel Image & Conclusion





- ① Control (WT): It is an important reference mark for whether the PCR reaction is successful and whether the 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 Com	ponent). ^>.		
Seg.	reaction c	Volume (μl)		
1 7	2 × Rapid Taq Master Mix (Vazyn	12.5		
2	ddH2O		9.5	
3	Primer A(10pmol/μl)	3.	19%	
4	Primer B(10pmol/μl)	1		
5	Template(≈100ng/μl)	102		
PCR program ① p	riority selection	9,/,	70. C	
Seg.	Temp.	Time	Cycle	
1 6	95℃	5min	John Committee of the C	
2	98℃	30s	20×	
3	65℃* (-0.5℃/cycle)	30s	'' &_ 'S_	
4	72℃	45s*	3/2 3/5	
5 🕟	98℃	30s	20×	
6	55℃*	30s	`%	
7	72℃	45s*	9.7	
8	72℃	5min	72	
95	10℃	hold	770	
PCR program ② t	he second choice	100 m		
Seg.	Temp.	Time	Cycle	
1	95℃	5min	J ⁵ /2	
2	98℃	30s	35×	
3	58℃*	30s		
4	72℃	45s*	**************************************	
5	72℃	5min	70,	
6	10°C	hold	7/25.	

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

