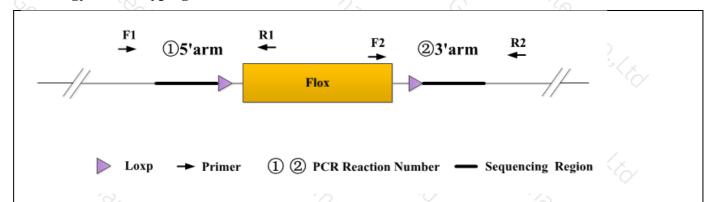
Genotyping Report

Strain ID	T018298	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name	3/X/	Vgll1	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)	T018298 -F1	GGCACGTAACAAGTCAGCTTGTGTT	WT: 336bp
	T018298 -R1 GGCATTCCCCTGTACTAGGGCATATA		Targeted: 441bp
②(3'arm)	T018298 -F2 TAGGTCTGTCCTGTTCTCACCTGAC		WT: 372bp
	T018298 -R2	AGCCAAGATTGGTGATGAGTCAGAG	Targeted: 478bp

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 Con	ponent	3.	19×	
Seg.	reaction co	reaction component		
1	2 × Rapid Taq Master Mix (Vazyme P222)		12.5	
2	ddH2O	0./	9.5	
3	Primer A(10pmol/μl)	35.	19%	
4	Primer B(10pmol/μl)	1 5		
5	Template(≈100ng/μl)	Template(≈100ng/μl)		
PCR program ①	priority selection	3/,	7)s, (4)	
Seg.	Temp.	Time	Cycle	
1 6	95°C	5min	100 ST.	
2	98℃	30s	20×	
3	65℃*(-0.5℃/cycle)	30s	3	
4	72℃	45s*	3/2 3/5	
5 🕠	98℃	30s	20×	
6	55℃*	30s	3,	
7	72℃	45s*		
8	72℃	5min	7	
9	10℃	hold	470	
PCR program ②	the second choice	(C)	0, 7	
Seg.	Temp.	Time	Cycle	
1	95℃	5min	J35 , J4	
2	98℃	30s	35×	
3 🔾	58℃*	30s	3	
4	72℃	45s*	- V	
5	72℃	5min	70	
6	10°C	hold	72	

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

