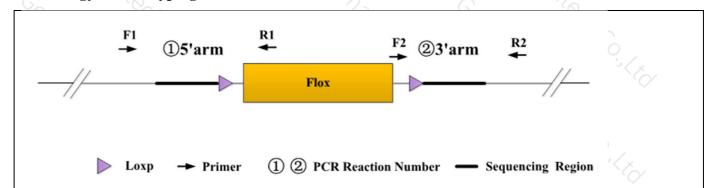
Genotyping Report

Strain ID	T018421	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name	3/2	Sec14l2	(ح) ا

1. Strategy of Genotyping



Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains none band.

Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a Targeted band.

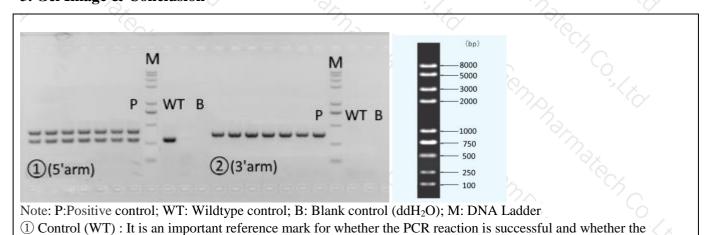
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a Targeted band.

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

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
①(5'arm)	T018421-F1	GACCATTGTCCTAACTCTGGGAGCT	WT:275bp
	T018421-R1 AGGTGGACAGTGACCCAGGATA		Targeted: 237bp
②(3'arm)	T018421-F2	TCTGAGGCGGAAAGAACCAG	WT:0bp Targeted: 332bp
	T018421-R2	GTTGCCAGGGGACCTAGTTCTTG	

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 C	omponent	722	73.		
Seg.	rea	reaction component			
1 70,	2 × Rapid Taq Master Mix	2 × Rapid Taq Master Mix (Vazyme P222)			
2	ddH2O	%,	9.5		
3	Primer A(10pmol/μl)	3/x	12		
4	Primer B(10pmol/μl)	Primer B(10pmol/μl)			
5	Template(≈100ng/μl)	Template(≈100ng/μl)			
PCR program ①	priority selection	o ₂	G, 3,/x		
Seg.	Temp.	Time	Cycle		
1	95℃	5min	19/7		
2	98℃	30s	20×		
3	65℃* (-0.5℃/cycle)	30s	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
4	72℃	45s*			
5	98℃	30s	20×		
6	55℃*	30s	Co You		
7	72℃	45s*	7/2 YC		
8	72℃	5min	192 3/x		
9	10℃	hold	- 1,0×		
PCR program ②	the second choice	79×			
Seg.	Temp.	Time	Cycle		
1	95℃	5min	1973 345 A		
2	98℃	30s	35×		
3	58℃*	30s	4		
4	72℃ /	45s*			
5	72℃	5min			
6	10°C	hold	200		

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