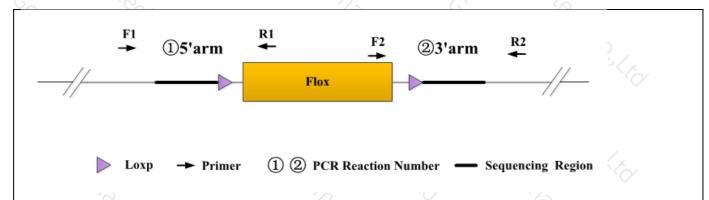
Genotyping Report

Strain ID	T022614	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	3/2	Cand2	0)

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.

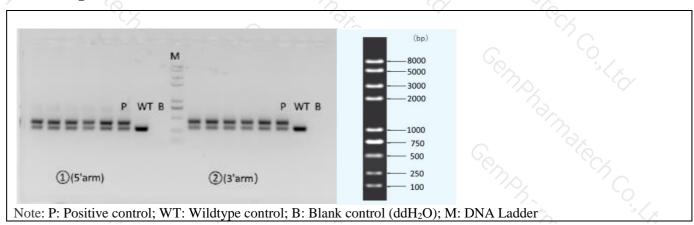
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

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

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
①(5'arm)	T022614-F1	T022614-F1 TGTCCTAGAACTCAGTGTGTAGACCAGG	
	T022614-R1	4-R1 ATCACGACCCACTTTGAGAACCACT	
②(3'arm)	T022614-F2	CCCTTTGGGGATCAAATGACTCTT	WT: 303bp
	T022614-R2	CATGGGAACCAATGAACAATGCAG	Targeted:409bp

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 Compo	onent	. 0	7/2×
Seg.	reaction component		Volume (μl)
1	2 × Rapid Taq Master Mix (Vazyme P222)		12.5
2	ddH2O	0./	9.5
3	Primer A(10pmol/μl)		19%
1	Primer B(10pmol/μl)	S	1 %
5	Template(≈100ng/μl)	7°C 6°C	1
PCR program ① pri	ority selection	3/,	20.
Seg.	Temp.	Time	Cycle
1 G	95℃	5min	170 AX
2	98°C	30s	20×
3	65°C* (-0.5°C/cycle)	30s	3. 6.
1 2	72°C	45s*	3/2
5 (2)	98°C	30s	20×
5	55℃*	30s	10%
7	72℃	45s*	
3 %.	72°C	5min	72
	10℃	hold	7
PCR program ② the	e second choice	100 M	. 7
Seg.	Temp.	Time	Cycle
1 72%	95℃	5min	(1) Jak
2	98℃	30s	35×
3 6	58°C*	30s	
1 7/2/	72°C	45s*	3/2
5 72	72℃	5min	Ž.
6	10 ℃	hold	70

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

