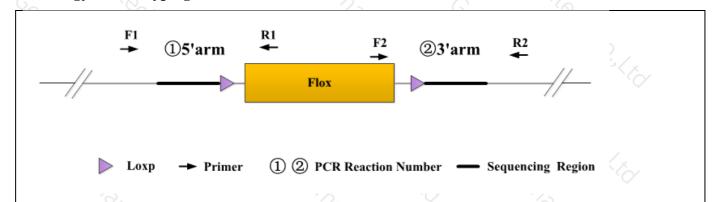


Genotyping Report

Strain ID	T008595	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name	3/2	Clpx	6

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.

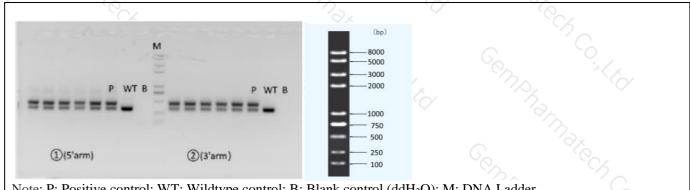
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

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

2. Primer Information

PCR No. Primer No.		Sequence	Band Size	
①(5'arm)	T008595-F1	AACTCAGAACCTCTGGAAGAGCAGT	WT: 318bp Targeted: 423bp	
	T008595-R1	008595-R1 GAGTTTCACTCACTCTGTGGTTCTAAGC		
②(3'arm)	T008595-F2	ACTAAAGGTATGCATCCATCACCAG	WT: 322bp	
	T008595-R2	ATAGTCATCTAGCCACAGGACACTCA	Targeted: 428bp	

3. Gel Image & Conclusion



Note: P: Positive control; WT: Wildtype control; B: Blank control (ddH2O); M: DNA Ladder

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	Component			
Seg.	rea	reaction component		
170,	2 × Rapid Taq Master Mix	2 × Rapid Taq Master Mix (Vazyme P222)		
2 %	ddH2O	۶, 7 _C	9.5	
3	Primer A(10pmol/μl)	3/2 3/x	12	
1	Primer B(10pmol/μl)	J ^{3×} A	1 0	
5	Template(≈100ng/μl)	, CX	1 7	
PCR program	① priority selection) ₂ (G	G. 3/x	
Seg.	Temp.	Time	Cycle	
1	95℃	5min	(an)	
	98℃	30s	20×	
	65°C* (-0.5°C/cycle)	30s	3	
1 ?	72℃	45s*		
5	98°C	30s	20×	
5 6	55℃*	30s	Co. Yeu	
1 70/	72℃	45s*	7/20) 1/2 C	
3	72℃	5min	3/x 3/x	
)	10°C	hold	- 173× (C	
PCR program	② the second choice	79×	C4 C4	
Seg.	Temp.	Time	Cycle	
ı (9/7)	95℃	5min		
<u>)</u>	98℃	30s	35×	
3	58℃*	30s	7	
	72℃	45s*	G. 9./.	
7	72℃	5min	70 ₂	
	10°C	hold	3.	

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