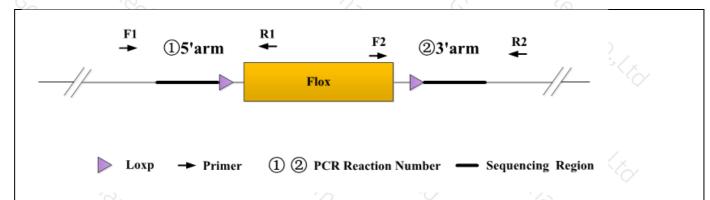
Genotyping Report

Strain ID	T009939	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	· · · · · · · · · · · · · · · · · · ·	Cers2	G

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.

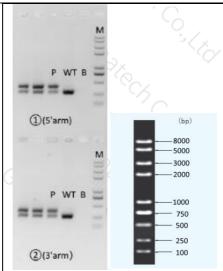
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

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

2. Primer Information

PCR No. Primer No.		Sequence	Band Size
①(5'arm)	T009939-F1	GTATAATTGGGATGTGTGCCG	WT: 289bp
	T009939-R1 TAGGCACTGACTATGGAGTTGCTG		Targeted:394bp
②(3'arm)	T009939-F2 TGGACATTGGTGTTCTGGCC		WT: 256bp
	T009939-R2	TACTGCAAGACTTAATTCTGGGCC	- Targeted:362bp

3. Gel Image & Conclusion



Note: P: Positive control; WT: Wildype 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	3 <th>7% (C</th>	7% (C	
Seg.	reaction	reaction component		
1	2 × Rapid Taq Master Mix(Vazyı	2 × Rapid Taq Master Mix (Vazyme P222)		
2	ddH2O	6	9.5	
3	Primer A(10pmol/μl)	·3 </td <td>70,1</td>	70,1	
4	Primer B(10pmol/μl)	Primer B(10pmol/μl)		
5	Template(≈100ng/μl)	1 0/2		
PCR program (D priority selection	970	3.	
Seg.	Temp.	Time	Cycle	
1	95℃	5min O	3/2	
2	98℃	30s	20×	
3	65℃*(-0.5℃/cycle)	30s	~ ~~~	
4	72℃	45s*	5/x	
5	98℃	30s	20×	
6	55℃* 30s		(3/2)	
7	72℃	45s*	2	
8	72℃	5min	3	
9	10℃	hold	73. 9.	



PCR progra	m ② the second choice	19h	5/x	7/2	½ 'C
Seg.	Temp.		Time		Cycle
1	95℃	60%	5min	0	19/6 . D
2	98℃	C _C	30s	(C)	35×
3	58℃*	رمراث	30s	~/,	
4	72℃	294.	45s*		3
5	72 ℃	7	5min	C _C	470
6	10 °C	C.	hold	770,	? _C

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