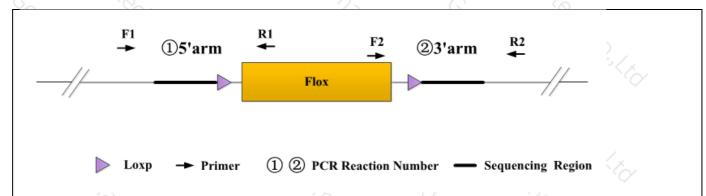


Genotyping Report

Strain ID	T040010	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	3/2	Ttll12	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	
I CK NO.	Time No.	Sequence	Dallu Size	
①(5'arm)	T040010-F1	CACACTTTCTGCTGCACGAGTGT	WT: 238bp Targeted:343bp	
	T040010-R1	AAGGTATCCACTCGAGAATCATGTCTAC		
②(3'arm)	T040010-F2	TCTAGGCCCTGTCCTCACTTCTGT	WT: 245bp Targeted:351bp	
	T040010-R2	AAGACAACTTGCGGGAGGCAGTT		

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 C	77.			
Seg.	r	reaction component		
1 70,	2 × Rapid Taq Master M	2 × Rapid Taq Master Mix (Vazyme P222)		
2	ddH2O	70, 70	9.5	
3	Primer A(10pmol/μl)	79/2 3/x	12	
4	Primer B(10pmol/μl)	Primer B(10pmol/μl)		
5	Template(≈100ng/μl)	Template(≈100ng/μl)		
PCR program	1) priority selection	%, (C)	G., 3/x	
Seg.	Temp.	Time	Cycle	
1	95℃	5min	1977	
2	98℃	30s	20×	
3	65°C* (-0.5°C/cycle)	30s	30 S	
4	72℃	45s*	9/2	
5	98℃	30s	20×	
6	55℃*	30s	C YOU	
7	72 ℃	45s*	7/20 · // C	
8	72℃	5min	3/x 3/x	
9	10 ℃	hold	- 73×	
PCR program (2) the second choice			
Seg.	Temp.	Time	Cycle	
1 3/7	95℃	5min		
2	98℃	30s	35×	
3	58℃*	30s	3	
4	72 ℃	45s*	G	
5	72 ℃	5min	70/	
6	10℃	hold	70A.	

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