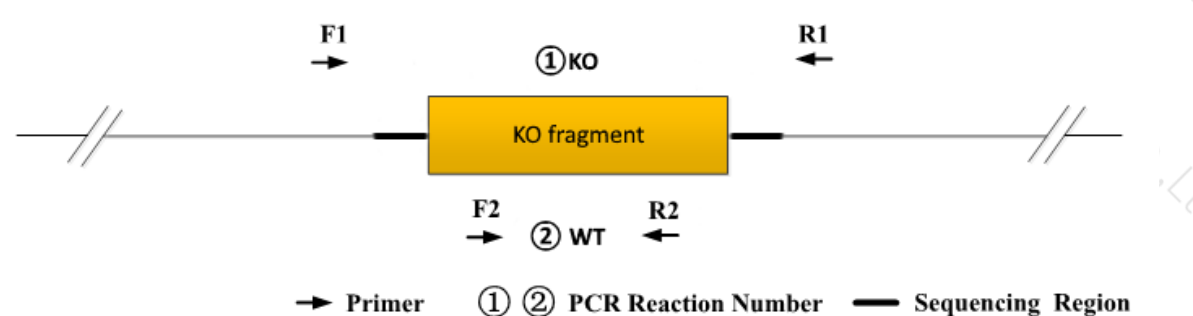


Genotyping Report

Strain ID	T017696	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name	<i>L1cam</i>		

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 KO band; ②PCR reaction obtains a WT band.
 Homozygote: ①PCR reaction obtains a single KO band; ② PCR reaction without product.
 Note: 1)The sizes of WT and Targeted band are shown below.
 2)If the WT band is too large, it may not be possible to obtain a WT band.

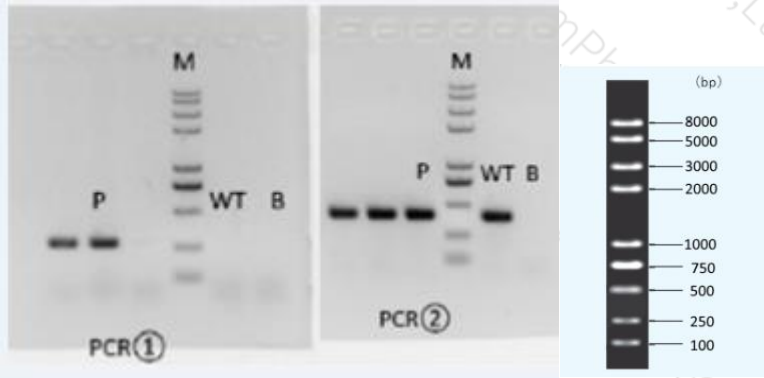
X-linked Inheritance (伴X遗传)

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
PCR①	T017696-F1	CCCTTTCTTCATTCCCTTGCTGCT	WT:15084bp
	T017696-R1	GCTTCCTGAGTGCTGAAATTAGAGGTG	KO:256bp
PCR②	T017696-F2	TCTTAGCACAAAGCAACCCAGAACC	WT: 416bp
	T017696-R2	CAGCCAGAAGAGTTATAGGCAGCCTA	KO:0bp

3. Gel Image

gaaggaaggagaggatggctggtgcaggc-----**14828bp**-----cgttatgtagtcctccatctcaacctga



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

4. PCR Condition

PCR Reaction Component			
Seg.	reaction component	Volume (μl)	
1	2 × Taq Master Mix , Dye Plus, (Vazyme P112-03)	12.5	
2	ddH ₂ O	9.5	
3	Primer A(10pmol/μl)	1	
4	Primer B(10pmol/μl)	1	
5	Template(≈100ng/μl)	1	
PCR program			
Seg.	Temp.	Time	Cycle
1	95°C	5min	20×
2	98°C	30s	
3	65°C (-0.5°C/cycle)	30s	
4	72°C	45s	
5	98°C	30s	20×
6	55°C	30s	



7	72°C	45s	
8	72°C	5min	
9	10°C	hold	