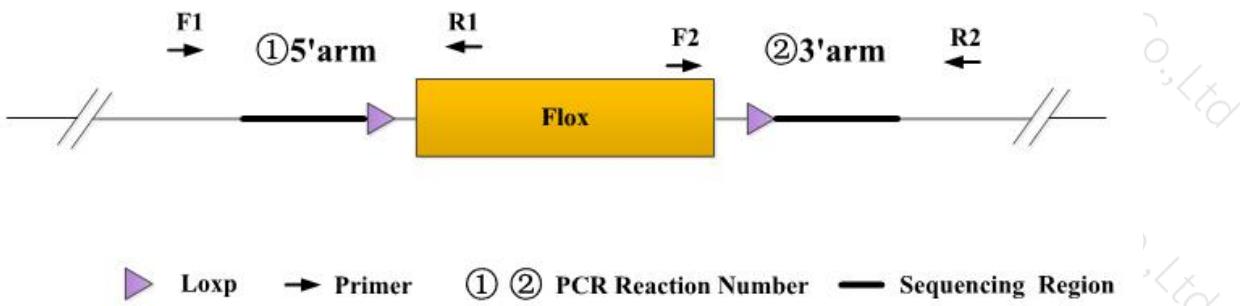




Genotyping Report

Strain ID	T008636	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name			<i>Crim1</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 Targeted band; ②PCR reaction obtains a WT band and a Targeted band.

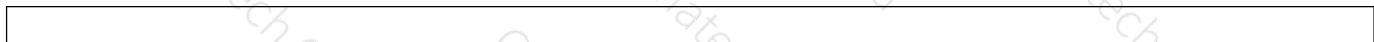
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

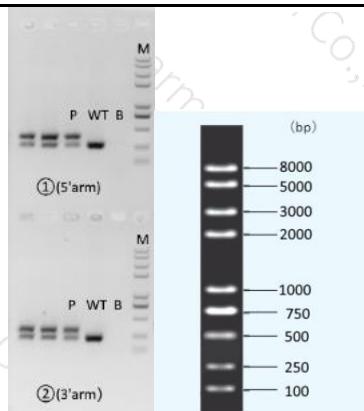
Note: The sizes of WT and Targeted band are shown below.

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
①(5'arm) Alternative	T008636-F1A	CCCAAGGTTGACTTTAGGACCTCA	WT:267bp Targeted:347bp
	T008636-R1A	ACAATACAGCAAGGAAGCCAATGAAC	
②(3'arm) Alternative	T008636-F2A	AGCCAAGTGTCA TGAGGTTAACGCC	WT:239bp Targeted:317bp
	T008636-R2A	AGCTCTGTGAAGCTGGCACTGTTTC	

3. Gel Image & Conclusion



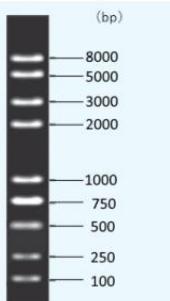


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Note: P: Positive control; WT: Wildtype control; B: Blank control (ddH₂O); M: DNA Ladder

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	
2	98°C	30s	20×
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	