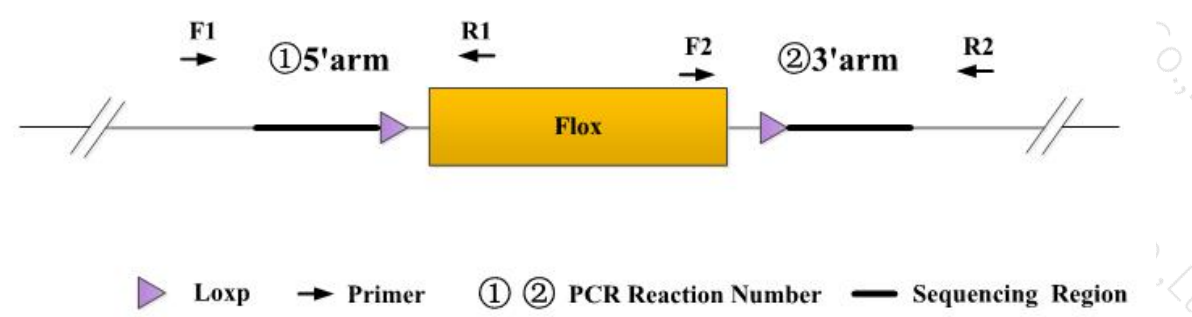


Genotyping Report

Strain ID	T007204	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	<i>Creb1</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.	Primer Name	Sequence	Band Size
①(5'arm) GC:36.7%	F1	T007204-F1	AGCATGTGTTGTTCTGAACTTAGCAAG	WT:292bp Targeted:373bp
	R1	T007204-R1	GTCATTCTCTGAAGCTAATGAATACCC	
②(3'arm)	F2	T007204-F2	ACTGTGTTAAGGGTTAGGAGATTGG	WT:280bp Targeted:358bp
	R2	T007204-R2	AGGTAGGTAACATCACAGTTGCACTC	

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	
6	55 °C	30s	20×
7	72 °C	45s	
8	72 °C	5min	
9	10 °C	hold	