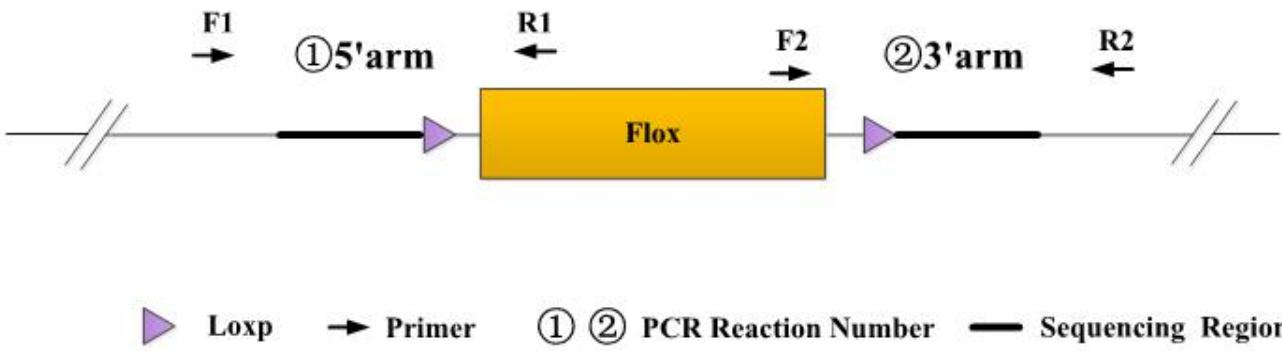




Genotyping Report

Strain ID	T015303	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name			<i>Kcnj2</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.

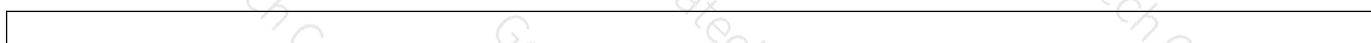
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

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

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
①(5'arm)	JS05392-Kcnj2-5wt-tF1	GCAAACAGCTATTGTGTGATTGTGG	WT: 293bp Targeted:395bp
	JS05392-Kcnj2-5wt-tR1	GGAATGGGACAAAGGAGTCCC	
②(3'arm)	JS05392-Kcnj2-3wt-tF1	GAGCTTAGGTGGTGCATGTTCA	WT: 259bp Targeted:362bp
	JS05392-Kcnj2-3wt-tR1	AAACATCCCTCCAAACAATGAATATCC	

3. Gel Image & Conclusion





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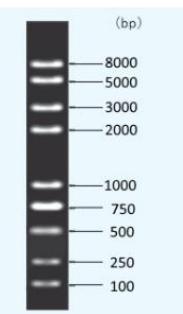
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Note: P: Heterozygous samples; WT: Wildtype control; B: Blank control (ddH₂O); M: DNA Ladder

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 Component			
Seg.	reaction component	Volume (μl)	
1	2 × Rapid Taq Master Mix (Vazyme P222)	12.5	
2	ddH ₂ O	9.5	
3	Primer A(10pmol/μl)	1	
4	Primer B(10pmol/μl)	1	
5	Template(20~80ng/μl)	1	

PCR program I priority selection

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	15×
6	55°C *	30s	
7	72°C	45s*	



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8	72°C	5min	
9	10°C	hold	
PCR program II the second choice			
Seg.	Temp.	Time	Cycle
1	95°C	5min	
2	98°C	30s	35×
3	58°C *	30s	
4	72°C	45s*	
5	72°C	5min	
6	10°C	hold	

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