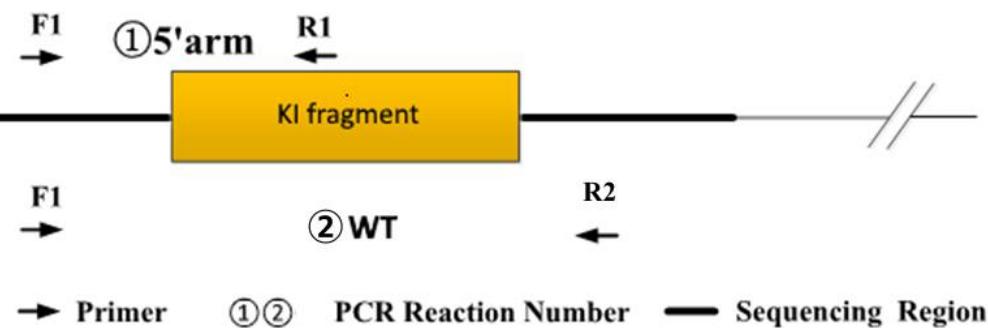




Genotyping Report

Strain ID	T059183	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tianjiao Wang	Gene Name			<i>Trpc4-IRES-iCre</i>

1. Strategy of Genotyping



Wild type: ①PCR reaction obtains none band; ②PCR reaction obtains a WT band.

Heterozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains a WT band.

Homozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains none band.

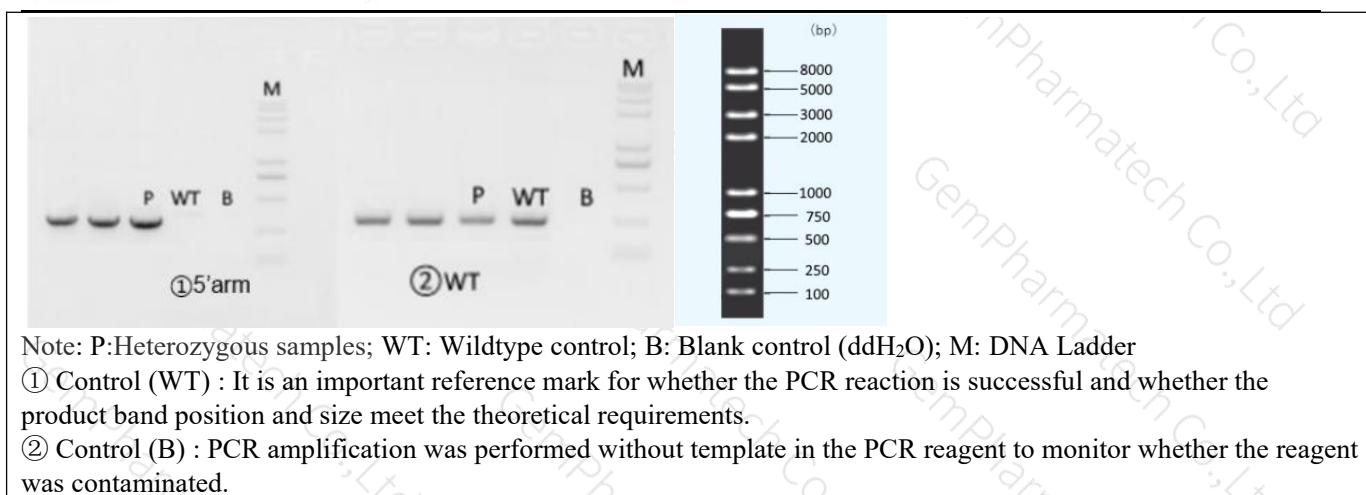
Note: The sizes of WT and Targeted band are shown below. For ②PCR reaction, because the WT band is much smaller than the target band, it is likely to produce dominant amplification, the reaction is only used to judge whether there is a WT allele.

2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
①5'arm	F1	T059183-F1	CTTGCGTTTACAGGTAGGCAAGAGA	WT:0bp Targeted:286bp
	R1	T059183-R1	AAACGCACACCGGCCTTATT	
②WT	F1	T059183-F2	CTTGCGTTTACAGGTAGGCAAGAGA	WT:252bp Targeted:1929bp
	R2	T059183-R2	CAAACATTTGCCTGCCAGA	

3. Gel Image & Conclusion





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	
2	98 °C	30s	20×
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 *	
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	



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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.