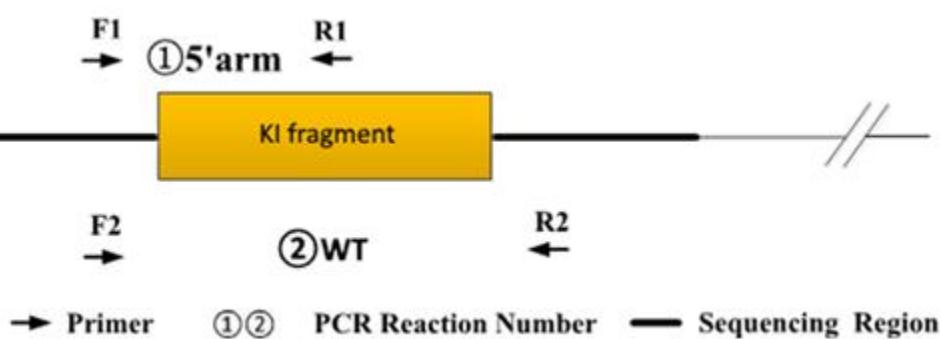




Genotyping Report

Strain ID	T052705	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tianjiao Wang	Gene Name			<i>H11-Zp3-iCre-polyA</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.

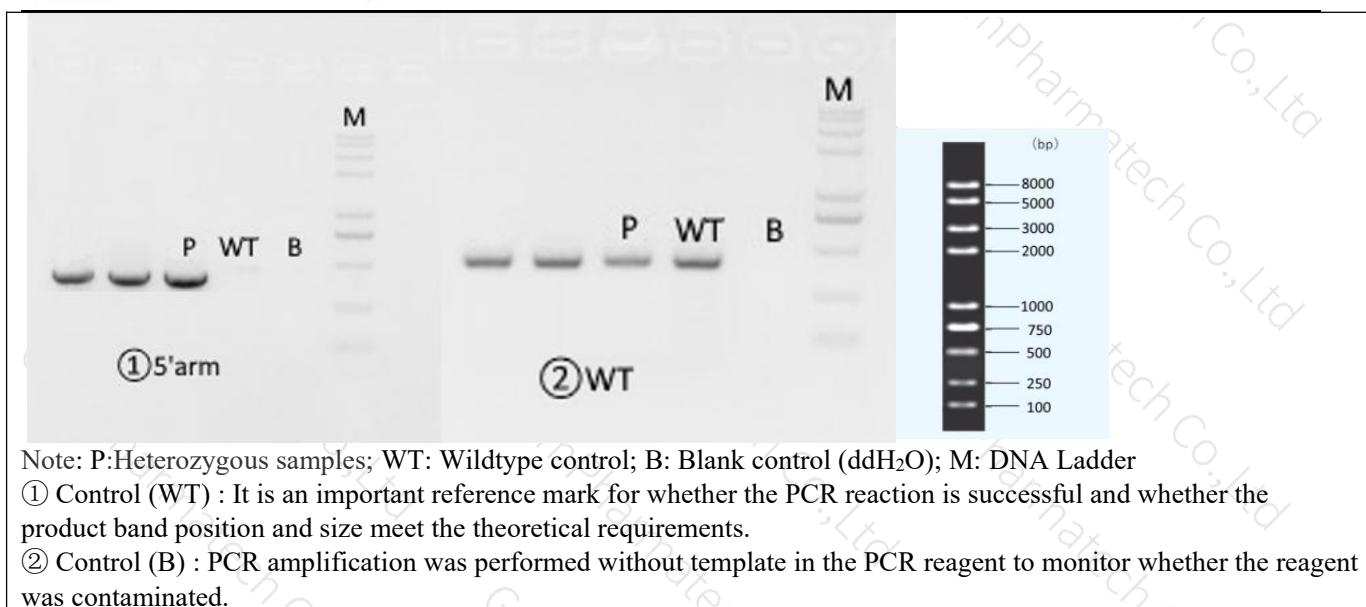
Note: The sizes of WT and Targeted band are shown below. For ②PCR reaction, because the WT band is much smaller than the target band, it is likely to produce dominant amplification, the reaction is only used to judge whether there is a WT allele.

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
①5' arm	T052705-F1	GGGCAGTCTGGTACTTCCAAGCT	WT:0bp Targeted:354bp
	T052705-R1	ACCCAGAACATCCCTACAGGTATGAATG	
②WT	T052705-F2	CAGCAAAACCTGGCTGTGGATC	WT:412bp Targeted:0bp
	T052705-R2	ATGAGCCACCATGTGGGTGTC	

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	



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2	98°C	30s	35x
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.