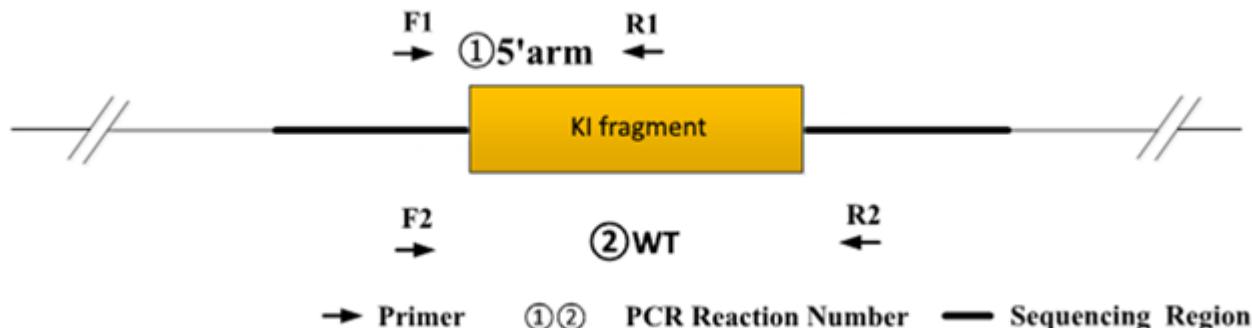




## Genotyping Report

Strain ID	T050753	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Dongdong Zhang	Gene Name			EGFP-P2A-Camk2a

### 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.

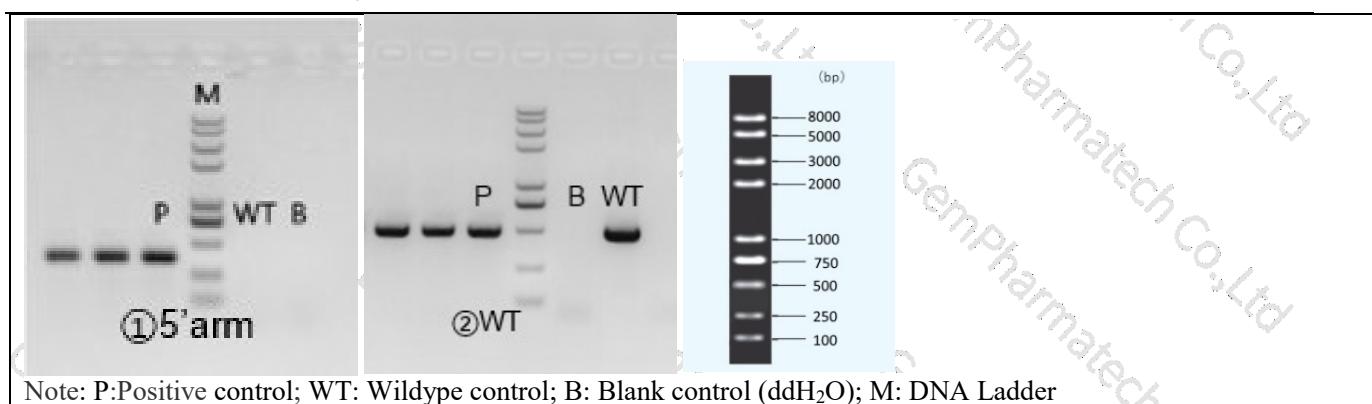
Note: The sizes of WT and Targeted band are shown below. For ②PCR reaction, because the WT band is much smaller than the target band, it is likely to produce dominant amplification, the reaction is only used to judge whether there is a WT allele.

### 2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
①5'arm GC: 63.7%	T050753-F1	AAGTGAAAGGCAGGCAGGTGTT	WT:0bp Targeted:364bp
	T050753-R1	AACTTGTGGCCGTTACGTCG	
②WT	T050753-F2	AAGTGAAAGGCAGGCAGGTGTT	WT:545bp Targeted:1319bp
	T050753-R2	CAGTGCTTCCAAATCATGCTGC	

### 3. Gel Image & Conclusion





#### 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 <sub>2</sub> 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	20x
3	65 °C (-0.5 °C/cycle)	30s	
4	72 °C	45s	
5	98 °C	30s	20x
6	55 °C	30s	
7	72 °C	45s	
8	72 °C	5min	
9	10 °C	hold	