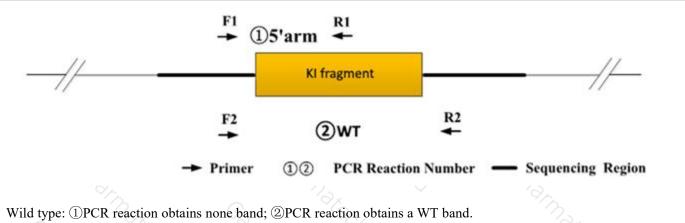


		Genotyp	ing Report		K.K.
Strain ID	T052695	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tianjiao Wang	Gene Name	· · · · · · · · · · · · · · · · · · ·	Pdgfrb-P2A-CreERT2	°C .
S fr.	~	$\sim \sim $	\sim	12	· · · · · ·

1. Strategy of Genotyping

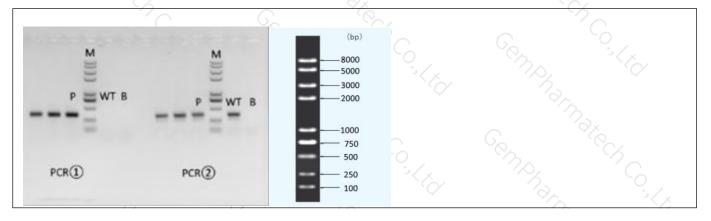


Wild type: ①PCR reaction obtains none band; ②PCR reaction obtains a WT band. Heterozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains a WT band. Homozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains none band. Note: The sizes of WT and Targeted band are shown below. 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	
1)5'arm	T052695-F1	AGCTCCAAGAAGAGCCACAGC	WT:0bp Targeted:345bp	
	T052695-R1	TCCGGTTATTCAACTTGCACCATGC		
2WT	T052695-F2	TCCCTTCCTCTAGTTCCACCTTG	WT:367bp	
	T052695-R2	GCAGAGTTCTCTTGCCTCCTAAGC	Targeted:2404bp	

3. Gel Image & Conclusion





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Note: P:Positive control; 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	and the		
Seg.	rea	reaction component		
	2 × Rapid Taq Master Mix	2 × Rapid Taq Master Mix (Vazyme P222)		
2 84	ddH2O	3. 6	9.5	
}	Primer A(10pmol/μl)	and sta		
ļ	Primer B(10pmol/µl)	Primer B(10pmol/µl)		
G	Template(≈100ng/µl)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
PCR program	① priority selection	5 °.	Sha stra	
eg.	Temp.	Time	Cycle	
	95°C	5min		
000	98°C	30s	20×	
	65℃*(-0.5℃/cycle)	30s		
	72℃ ·	45s*		
0	98°C	30s	20× >>	
	55°C*	30s		
· ~~~~	72°C	45s*		
	72℃	5min	2/2 ² /2	
C,	10 °C	hold	2×	
CR program	② the second choice		Sha Sha	
Seg.	Temp.	Time	Cycle	
	95℃	5min	and the second s	
	98°C	30s	35× 🔨	
G.	58°C*	30s	C C	
- Co	72°C	45s*		
	72°C	5min		
5	10℃	hold	STA S	

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