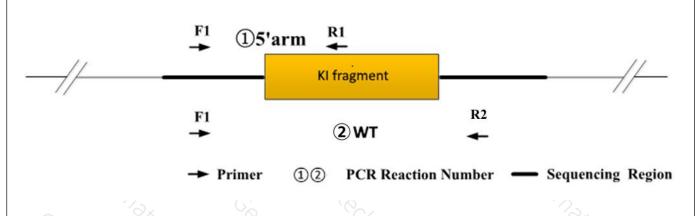


	m - Kr	Genoty	oing Report		· · · · · · · · · · · · · · · · · · ·
Strain ID	T059183	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tianjiao Wang	Gene Name	· · / /	Trpc4-IRES-iCre	6
9 m				Q.	- 5 (x

1. Strategy of Genotyping



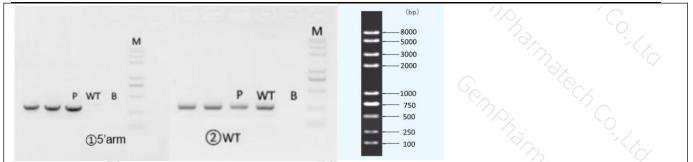
Wild type: ①PCR reaction obtains none band; ②PCR reaction obtains a WT band. Heterozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains a WT band. Homozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains none band. Note: The sizes of WT and Targeted band are shown below. 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	Fl	T059183-F1	CTTTGGGTTTACAGGTAGGCAAGAGA	WT:0bp Targeted:286bp	
	R1	T059183-R1	AAACGCACACCGGCCTTATT		
②WT	F1	T059183-F2	CTTTGGGTTTACAGGTAGGCAAGAGA	WT:252bp	
	R2	T059183-R2	CAAACATTTTGCCTGCCCAGA	Targeted:1929bp	

3. Gel Image & Conclusion





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 Co	mponent		-0
Seg.	reaction com	ponent	Volume (µl)
2	2 × Rapid Taq Master Mix (Vazyme	2 × Rapid Taq Master Mix (Vazyme P222)	
2	ddH2O	ddH2O	
3 6	Primer A(10pmol/µl)	$\sim $	1
	Primer B(10pmol/µl)		4
	Template(20~80ng/µl)	Template(20~80ng/μl)	
CR program I	priority selection	02	n _{ax}
Seg.	Temp.	Time	Cycle
	95°C	5min	S. S.
<u>.</u>	98°C	30s	20×
iC _o	65℃* (-0.5℃/cycle)	30s	
$1 \gamma_{S}$	72°C	45s*	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
- 13 m	98°C	30s	15×
; ?.	55°C*	30s	
,	72℃	45s*	
3	72°C	5min	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
, %	10°C	hold	a ^{is} la
PCR program II	the second choice	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\gamma_{\mathcal{O}_{\mathcal{L}}}$ \mathcal{A}
Seg.	Temp.	Time	Cycle
	95°C	5min	nate of
2 $\gamma_{\mathcal{S}_{L}}$	98°C	30s	35×
3 70	58℃*	30s	73. °.



4	72℃	C ian	45s*	100	5	6
5	72℃	and the second s	5min	· .	9/2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
6	10 ℃	ý (hold	~	797	Ϋ́́

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

