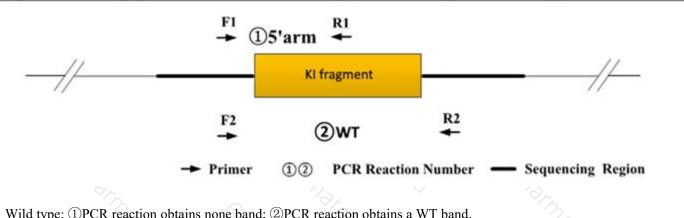


	n · · · · ·	Genotyp	ing Report		- KA
Strain ID	T058501	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tianjiao Wang	Gene Name		Resfl	°C .
Spr.	*< ×	$\langle \mathcal{O} \rangle$	\sim	· 2.	3/ 3

1. Strategy of Genotyping



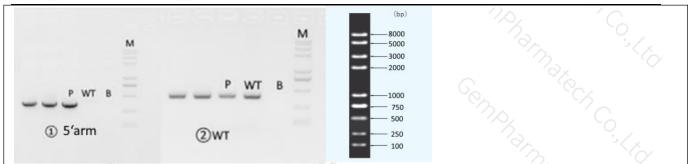
Wild type: ①PCR reaction obtains none band; ②PCR reaction obtains a WT band. Heterozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains a WT band. Homozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains none band. Note: The sizes of WT and Targeted band are shown below. 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	GJS072021064821C1- 01-Resf1-3-wt-tF1		
	iCre-tR1	CTGACTTCATCAGAGGTGGCATC	20 °C
Our C	GJS072021064821C1- 01-Resf1-3-wt-tF1	GAAGCCTCAGTGCAGATGAATTTG	WT:398bp Targeted:1592bp
2WT	W I GJS072021064821C1- 01-Resf1-3-wt-tR1	ACCCAGTAAACACAGTTCAACAATGC	anna.

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	Component		Go O
Seg.	reactio	on component	Volume (µl)
1	2 × Rapid Taq Master Mix (Va	2 × Rapid Taq Master Mix (Vazyme P222)	
2	ddH2O	ddH2O	
3 6	Primer A(10pmol/µl)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
1 ⁷ 2	Primer B(10pmol/µl)	· · · · · · · · · · · · · · · · · · ·	NA C
5	Template(20~80ng/μl)	γ_{2} , γ_{2}	1.0
PCR program	I priority selection		n _{ax}
Seg.	Temp.	Time	Cycle
1 72	95°C	5min	
2	98°C	30s	20×
36	65℃*(-0.5℃/cycle)	30s	2×
1 ⁽),	72°C	45s*	Sha Sha
5 ° .)	98°C	30s	15×
5	55℃*	30s	
7	72℃	45s*	
3	72°C	5min	2 70
) °°2	10°C	hold	
PCR program	II the second choice	Pro Stra	
Seg.	Temp.	Time	Cycle
	95°C	5min	Contractor
<u>2</u> 72	98℃	30s	35×
3	58℃*	30s	7, 0.



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.

