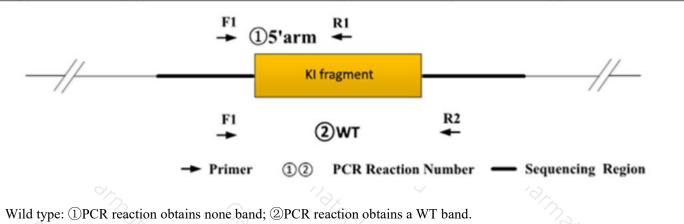


	m	Genoty	oing Report		
Strain ID	T055135	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGp
Designer	Tianjiao Wang	Gene Name	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	IRES-iCre	°C –
917,		1/2/		an.	

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.

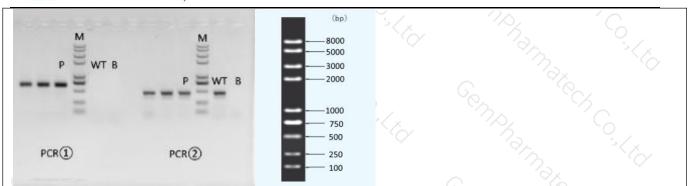
2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size	
1)5'arm	∕∼F1	T055135-F1	GCCCAAGGAATACCTGAAGACTG	WT:0bp Targeted:719bp	
	R1	T055135-R1	TGCCAATGTGGATCAGCATTC		
②WT	F1 (T055135-F2	GCCCAAGGAATACCTGAAGACTG	WT:375bp	
	R2	T055135-R2	GATCTTCTTCTGGGAACTCTCGC	Targeted:2061bp	

3. Gel Image & Conclusion



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Note: P:Positive control; WT: Wildtype control; B: Blank control (ddH_2O); 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		
Seg.	reaction c	reaction component	
1	2 × Rapid Taq Master Mix (Vazyn	2 × Rapid Taq Master Mix (Vazyme P222)	
2 6	ddH2O		9.5
3 701	Primer A(10pmol/µl)		1
1 ⁷ 7	Primer B(10pmol/µl)		
5	Template(≈100ng/µl)		1
CR program ①	priority selection	C Co	
Seg.	Temp.	Time	Cycle
1 37	95°C	5min	
6.	98°C	30s	20× 0
	65℃*(-0.5℃/cycle)	30s	°°°
	72°C	45s*	
	98°C	30s	20×
5	55℃*	30s	
7	72°C	45s*	
3 6	72°C	5min G	
	10°C	hold	$2\rho_{2}$
PCR program ②	the second choice	? _? ,	and the second s
Seg.	Temp.	Time	Cycle
	95°C-	5min	Sh Ch
2 7.5	98°C	30s	35×



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3	58°C*	30s	- ^s	í C
4	⁷ 2℃	45s*	· · · · · ·	and the
5	72℃	5min	0	- 12 27
6	10°C	hold	60	°%

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

and amplification enzyme efficiency.		
and amplification enzyme efficiency.	Cemphamatech Colled	
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