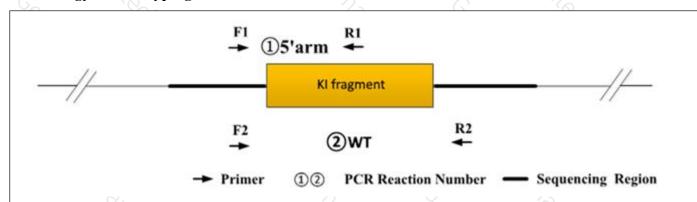
Genotyping Report

Strain ID	T004857	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tianjiao Wang	Gene Name	3/2	H11-Gfap-iCre	G

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.

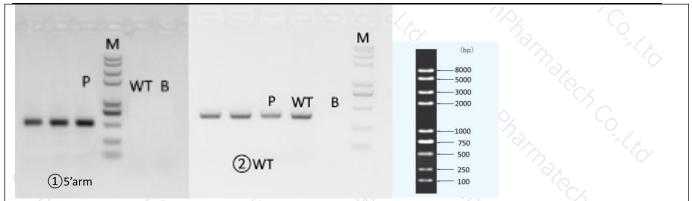
Homozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains none band.

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	√F1	T004857-F1A	GGGCAGTCTGGTACTTCCAAGCT	WT:0bp Targeted: 515bp WT: 412bp Targeted:4605bp	
	RI	T004857-R1A	TCAGCAACGCTGGAGAATCCC		
②WT	F2	T004857-F2	CAGCAAAACCTGGCTGTGGATC		
	R2	T004857-R2	ATGAGCCACCATGTGGGTGTC	rargeted:4605bp	

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 Cor	mponent	34	- 1/2/2 - 1.4/ -	
Seg.	reaction o	omponent	Volume (μl)	
1	2 × Rapid Taq Master Mix (Vazym	12.5		
2	ddH2O	6	9.5	
3	Primer A(10pmol/μl)		3, 6	
4	Primer B(10pmol/μl)	Primer B(10pmol/μl)		
5 6	Template(20~80ng/μl)	Ty C	1 %	
PCR program I	priority selection		3. Y	
Seg.	Temp.	Time	Cycle	
1	95°C	5min	77 ₇₀	
2 0	98℃	30s	20×	
3 %	65℃*(-0.5℃/cycle)	30s	20/2 1/ Co	
4 Ph	72℃ ~~~	45s*	92 342	
5	98℃	30s	15×	
<u> </u>	55℃*	30s	, C/2	
7 6	72℃	45s*	6	
3 7	72°C	5min		
9 ?	10°C	hold	75.	
PCR program II	the second choice	72	70,	
Seg.	Temp.	Time	Cycle	
1	95℃	5min	77 7 C	
2	98°C	30s	35×	



3	10%	58℃*		9/2	30s	70	3	6
4	, dy	72 ℃	<	, 20°,	45s*		9/2	3/2
5	(S)	72℃	7	, C	5min		79%	.0
6) }	10℃	(hold	600	3	2000 Pa

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