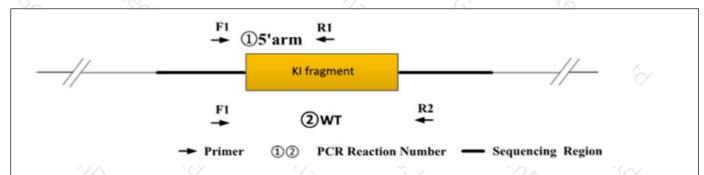


Genotyping Report

Strain ID	T053866	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tianjiao Wang	Gene Name	3/2	Gfap-P2A-Dre	6

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.

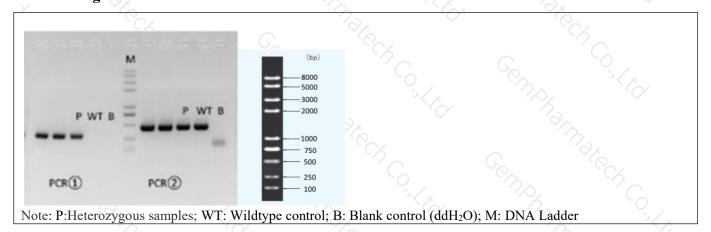
Homozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains none band.

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	T053866-F1	CTGGTGTTCCCAAGAAAGCCTT	WT:0bp	
	R1	T053866-R1	TGGTACTCCTTGCCGATGTTC	Targeted: 275bp	
②WT	Fl	T053866-F2	CTGGTGTTCCCAAGAAAGCCTT	WT: 440bp	
	R2	T053866-R2	CTAGCAAAGCGGTCATTGAGCT	Targeted:1574bp	

3. Gel Image & Conclusion





- 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

reaction comp	reaction component		
2 × Rapid Taq Master Mix (Vazyme P2	12.5		
ddH2O		9.5	
Primer A(10pmol/μl)		1	
Primer B(10pmol/μl)	1		
Template(20~80ng/μl)	1		
iority selection	7°C 0		
Temp.	Time	Cycle	
95℃	5min 🗸	20/2	
98°C	30s	20×	
65℃* (-0.5℃/cycle)	30s	5, "%	
72℃	45s*		
98℃	30s	15×	
55℃*	30s	- 19×	
72℃	45s*	× ×	
72°C - / _×	5min	3/.	
10℃	hold	72	
e second choice	3× C		
Temp.	Time	Cycle	
95℃	5min C	300	
98°C	30s	35×	
58℃*	30s	300	
72℃	45s*		
72℃	5min	70. To	
10°C	hold	73.	
	2 × Rapid Taq Master Mix (Vazyme P2 ddH2O Primer A(10pmol/μl) Primer B(10pmol/μl) Template(20~80ng/μl) riority selection Temp. 95°C 98°C 65°C * (-0.5°C/cycle) 72°C 98°C 55°C * 72°C 10°C ne second choice Temp. 95°C 98°C 58°C * 72°C 72°C	2 × Rapid Taq Master Mix (Vazyme P222) ddH2O Primer A(10pmol/μl) Primer B(10pmol/μl) Template(20~80ng/μl) riority selection Temp. 95°C 98°C 30s 65°C* (-0.5°C/cycle) 72°C 45s* 98°C 30s 55°C* 72°C 45s* 72°C 5min hold riority ps°C 5min 10°C hold resecond choice Temp. 95°C 30s 30s 45s* 72°C 5min hold resecond choice Temp. 95°C 98°C 30s 55°C* 5min hold	

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