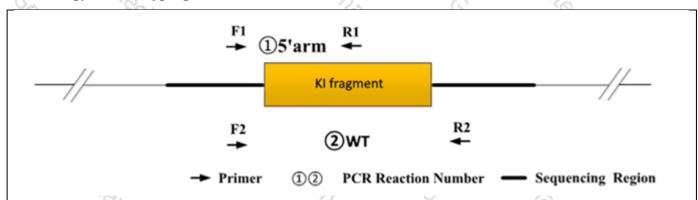


Genotyping Report

Strain ID	T055140	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tianjiao Wang	Gene Name	.<	Acan-P2A-CreERT2	S

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.

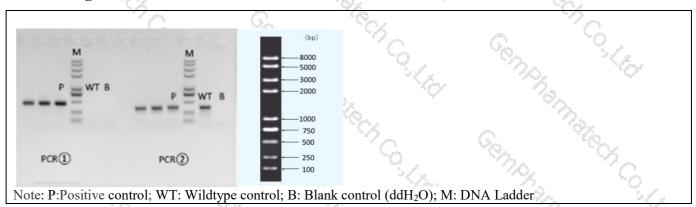
Homozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains none band.

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

1,070,000				
PCR No.	Primer No.	Sequence	Band Size	
①52 - ····	T055140-F1	TGTTAAAGCCTTCAGGTGGTTGG	WT:0bp Targeted:485bp	
①5'arm	T055140-R1	CATGTCCATCAGGTTCTTGCGAAC		
②WT	T055140-F2	TGGGAGAACCAATGTACCAACCA	WT:348bp Targeted:2382bp	
	T055140-R2	ACTTGTACCCTGTATTCGGAACCC	Targeted:23820p	

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

PCR Reaction	Component	7.	To the		
Seg.	reaction	reaction component			
1 %	2 × Rapid Taq Master Mix(Va	2 × Rapid Taq Master Mix (Vazyme P222)			
2	ddH2O	. 30	9.5		
3	Primer A(10pmol/μl)	3/s	1, 3		
4	Primer B(10pmol/μl)	Primer B(10pmol/μl)			
5	Template(≈100ng/μl)	Template(≈100ng/μl)			
PCR program	① priority selection	7°C	G. O		
Seg.	Temp.	Time	Cycle		
1	95℃	5min	nd n		
2 6.	98°C	30s	20×		
3 %	65°C* (-0.5°C/cycle)	30s	Ch Ch		
4	72°C	45s*			
5	98℃	30s	20×		
5 G	55°C*	30s			
7 70	72°C	45s*	72. 7c.		
3	72℃	5min O	3/,		
9	10°C	hold	72		
PCR program	② the second choice	73× 0,			
Seg.	Temp.	Time	Cycle		
1	95℃	5min C	300		
2	98℃	30s	35×		
3	58℃*	30s	.0%		
4 👡	72°C	45s*	G. 9		
5	72°C	5min	70,		
6	10℃	hold	7.5		

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