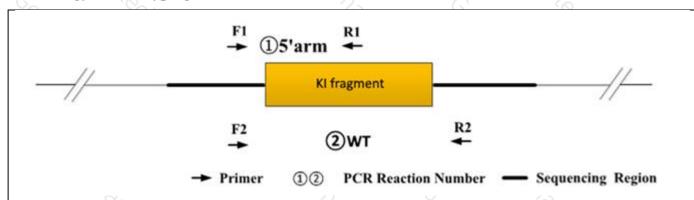
Genotyping Report

Strain ID	T054788	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tianjiao Wang	Gene Name	CAG-LSL-mPrelp-flag-PolyA		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.

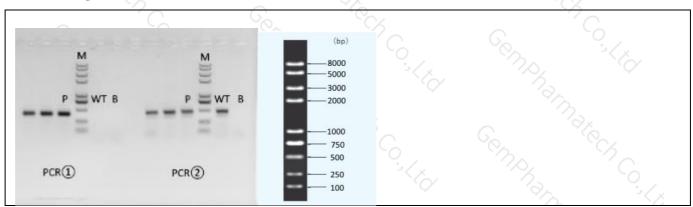
Homozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains none band.

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?ama	T054788-F1	CCCAAAGTCGCTCTGAGTTGTTA	WT:0bp	
(1)5'arm	T054788-R1 TGGCGTTACTATGGGAACATACGTC		Targeted:375bp	
	T054788-F2	T054788-F2 CCCAAAGTCGCTCTGAGTTGTTA		
②WT	T054788-R2 TCGGGTGAGCATGTCTTTAATCT		Targeted:5255bp	

3. Gel Image & Conclusion





Note: P:Positive control; 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 C	omponent	19/2 C	73×	
Seg.	reactio	reaction component		
1	2 × Rapid Taq Master Mix(Va	2 × Rapid Taq Master Mix (Vazyme P222)		
2	ddH2O	6	9.5	
3	Primer A(10pmol/μl)	7/2 · · · · · · · · · · · · · · · · · · ·	1 ₀ / _×	
4	Primer B(10pmol/μl)	Primer B(10pmol/μl)		
5	Template(≈100ng/μl)	7	1 6	
PCR program (1	priority selection		75 3/5 1	
Seg.	Temp.	Time	Cycle	
1	95℃	5min	ALDINA	
2	98℃	30s	20×	
3	65℃*(-0.5℃/cycle)	30s	72/2 (C)	
4	72℃	45s*	3/2 3/2	
5	98℃	30s	20×	
6	55℃*	30s	2	
7	72℃	45s*		
8	72℃	5min	3/2	
90	10℃	hold	9%	
PCR program @	the second choice	900	3, 3	
Seg.	Temp.	Time	Cycle	
1	95℃	5min	3/2 ³ 3/2 ³	
2	98℃	30s	35×	
3	58℃*	30s	6 6	
4	72℃	45s*	Sys. 3.4%	
5	72℃	5min	7%	
6	10℃	hold	3/2	

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