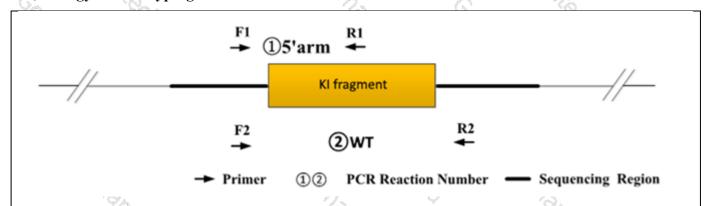
Genotyping Report

Strain ID	T054776	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tianjiao Wang	Gene Name	Rosa26-CAG-LSL-mDennd4b-flag-PolyA		-PolyA

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'arm	T054776-F1	CCCAAAGTCGCTCTGAGTTGTTA	WT:0bp Targeted:375bp	
1)3 ami	T054776-R1	054776-R1 TGGCGTTACTATGGGAACATACGTC		
	T054776-F2	CCCAAAGTCGCTCTGAGTTGTTA	WT:479bp Targeted:8651bp	
②WT	T054776-R2	TCGGGTGAGCATGTCTTTAATCT	Targeted.80310p	

3. Gel Image & Conclusion



Note: P:Positive control; WT: Wildype 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

DOD D	· · · · · · · · · · · · · · · · · · ·	}			
PCR Reaction Co	<u> </u>	Ox	<u> </u>		
Seg.	11.74	component	Volume (μl)		
1	2 × Rapid Taq Master Mix (Vazyr	ne P222)	12.5		
2	ddH2O	3/2	9.5		
3	Primer A(10pmol/μl)	72.	10/2		
4	Primer B(10pmol/μl)	\(\alpha\)	1 0		
5	Template(≈100ng/μl)	6. 9			
PCR program ①	priority selection	3/2/	''%, G.		
Seg.	Temp.	Time	Cycle		
10	95℃	5min	12/200		
2	98°C	30s	20× 7		
3	65℃* (-0.5℃/cycle)	30s	30.		
4 0	72℃	45s*	3× ,0		
5	98℃	30s	20×		
6	55°C*	30s	a 'S		
7 [©]	72℃ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	45s*			
8	72℃	5min	7		
9	10℃	hold	777		
PCR program ②	the second choice	3	G. PA		
Seg.	Temp.	Time	Cycle		
1 %	95℃	5min 5	13m 0.4		



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2	1/2/2	98℃ ြ	19/2	30s	720	35×
3	9/2	58℃*	20/2	30s	* 7	
4		72 ℃	, C/S	45s*		, John 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,
5	(P)	72°C	C.	5min	COV	60
6	72	10℃	79/2A	hold	1/0/	G

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