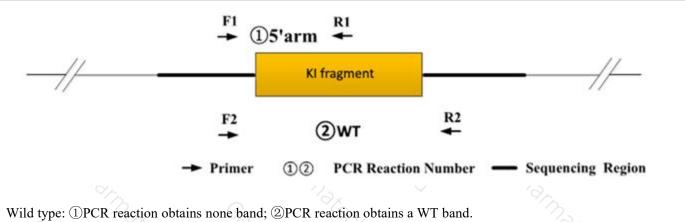


		Genotyp	oing Report		
Strain ID	T057037	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGp
Designer	Tianjiao Wang	Gene Name	Rosa26-CAG-LSL-Slc27a2-flag-polyA		

1. Strategy of Genotyping

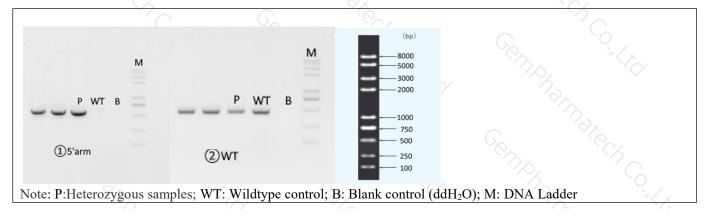


Wild type: ①PCR reaction obtains none band; ②PCR reaction obtains a WT band. Heterozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains a WT band. Homozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains none band. Note: The sizes of WT and Targeted band are shown below. 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	0
1)5'arm	T057037-F1	GTGGGATACAGAAGACCAATGCAG	WT:0bp	K C
	T057037-R1	TGGCGTTACTATGGGAACATACGTC	Targeted:555bp	
②WT	T057037-F2	AATGTAGGGCCAGAGTTTAGCCAG	WT:460bp	
	T057037-R2	TGAAAGATTTCCCAACCCCAC	Targeted:0bp	

3. Gel Image & Conclusion





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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	5 7_			
Seg.	reactio	reaction component			
1 3	2 × Rapid Taq Master Mix (Vaz	2 × Rapid Taq Master Mix (Vazyme P222)			
2	ddH2O	ddH2O			
3	Primer A(10pmol/µl)		The state		
4	Primer B(10pmol/µl)	Primer B(10pmol/µl)			
5	Template(20~80ng/µl)	Template(20~80ng/µl)			
PCR program	I priority selection	$^{\circ}C$			
Seg.	Temp.	Time	Cycle		
1	95℃	5min	narra na		
2 6	98°C	30s	20× 🔗		
3 70	65℃*(-0.5℃/cycle)	30s	S. S.		
4	72℃	45s*			
5	98℃	30s	15×		
6 6	55℃*	30s			
7 ⁷ .	72°C	45s*	20 30		
8 🔗	72℃	5min			
9	10℃	hold			
PCR program	II the second choice	nax Go			
Seg.	Temp.	Time	Cycle		
1 27	95℃	5min	1300 · · · · · · · · ·		
2	98°C	30s	35×		
3	58°C*	58°C* 30s			
4 6	72°C	45s*	5		
5 7/	72°C	5min			
6	10℃	hold	2		

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