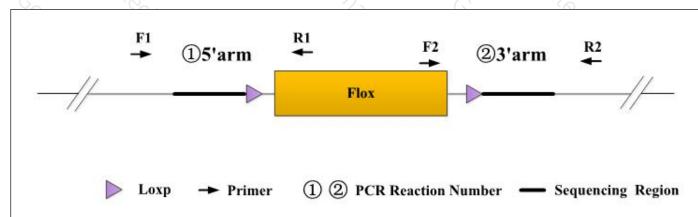
Genotyping Report

Strain ID	T025852	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	3/2	RIN3	~G

1. Strategy of Genotyping



Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.

Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a WT band and a Targeted band.

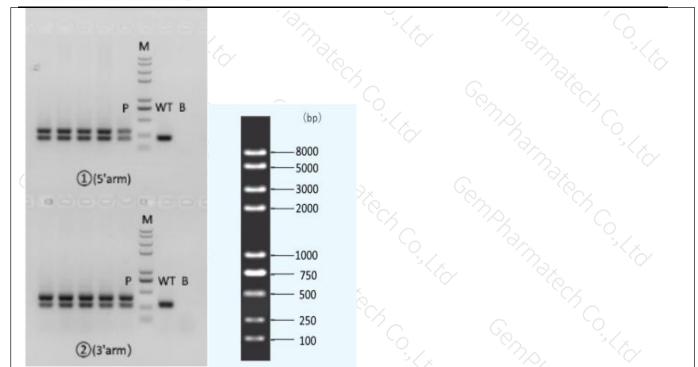
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

Note: The sizes of WT and Targeted band are shown below.

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size	
①(5'arm)	T025852(P1)-F1	TCCAGAAAGTGTCATCTGGGAAGG	WT: 222bp Targeted: 327bp	
	T025852(P1)-R1	CCACTATGCACCTTTCATTCACCG		
②(3'arm)	T025852(P1)-F2	ATGAACAAAACGCCTGTGCCC	WT: 270bp Targeted: 376bp	
	T025852(P1)-R2	ATCCCCCAGGACAGTAAAAGCCTT	Targeted: 3/66p	

3. Gel Image & Conclusion



Note: P: Heterozygous samples; 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 Co	mponent			
Seg.	reaction con	Volume (μl)		
1	2 × Rapid Taq Master Mix (Vazyme	2 × Rapid Taq Master Mix (Vazyme P222)		
20	ddH2O	ddH2O		
3	Primer A(10pmol/μl)	9×20.	1 %	
4	Primer B(10pmol/μl)	70 7	3 1	
5	Template(20~80ng/μl)	Template(20~80ng/μl)		
PCR program I	priority selection	2	9×	
Seg.	Temp.	Time	Cycle	
1 6	95℃	5min	9 ₂	
2	98℃	30s	20×	
3	65℃* (-0.5℃/cycle)	30s	9/2	
4 6	72°C	45s*	79%	
5	98℃	30s	15×	
6	55℃*	30s	73.	



7 %	72℃		45s*		ζ.	
8	72 ℃	, Jox	5min		9/2	3/2
9	10℃	, CO	hold		7dx	.0
PCR program $ m II$ th	e second choice		S	6	.00	3
Seg.	Temp.		Time		Cycle	
1 377	95℃	1/2/2	5min	~	2/2 ₂	3/2/
2	98°C	\frac{1}{2}	30s	2	35× 0	
3 70/2	58℃*	G.	30s	m.		
4	72℃	70/	45s*	20)	· .	3/
5 Px	72 ℃	9/2	5min	1	?>>	
6	10℃	_ ^\dy	hold		°C/2	

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