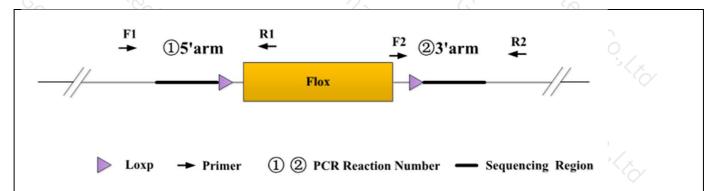
Genotyping Report

Strain ID	T039762	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name	5<×	Zbtb11	9

1. Strategy of Genotyping



Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains none band.

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

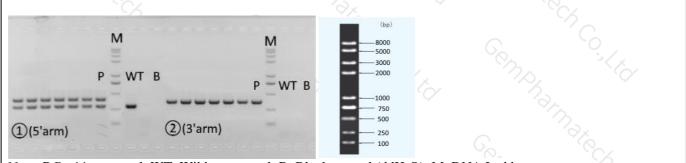
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a Targeted band.

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

2. Primer Information

PCR No. Primer No.		Sequence	Band Size	
①(5'arm)	T039762-F1	TCTGAATTAGACTGTGGGTCACATAA C	WT: 270bp Targeted: 375bp	
	T039762-R1	ACCTAGAAAGGAAGACAGGGCTG		
②(3'arm)	T039762-F2	CATCGCATTGTCTGAGTAGGTG	WT: 0bp Targeted: 328bp	
	T039762-R2	TAATGCTGTTCACAGGGTAGCAG		

3. Gel Image & Conclusion



Note: P:Positive control; WT: Wildype control; B: Blank control (ddH₂O); M: DNA Ladder

(L. Control (WT): It is an important reference mark for whether the PCR reaction is successful.)

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

	Component)	9/2 3/X		
Seg.	reaction	component	Volume (μl)		
10	2 × Rapid Taq Master Mix(Vazyı	2 × Rapid Taq Master Mix (Vazyme P222)			
2 %	ddH2O	(A) - (A)	9.5		
3	Primer A(10pmol/μl)		1 3/2		
4	Primer B(10pmol/μl)	3 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	12		
5	Template(≈100ng/µl)	Template(≈100ng/μl)			
PCR program	① priority selection	3	2 6		
Seg.	Temp.	Time	Cycle		
1	95℃	5min			
2	98°C	30s	20×		
3 %	65℃*(-0.5℃/cycle)	30s	2000		
4	72°C	45s*	72 / C		
5	98℃	30s	20×		
6	55℃*	30s	975		
7 %	72℃	45s*	2		
3	72℃	5min	79, 6,		
9	10℃	hold	3/2		
PCR program	② the second choice	~~~ C	19/ ₂		
Seg.	Temp.	Time	Cycle		
1	95℃	5min	2/3/x		
2	98℃	30s	35×		
3	58℃*	30s	200		
4 6	72℃	45s*	6 6		
5	72°C	5min	3/2		
5	10℃	hold			

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