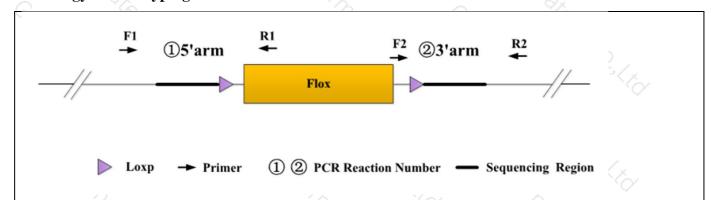


Genotyping Report

Strain ID	T008710	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Dongdong Zhang	Gene Name	5/x	Ilk	C

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.

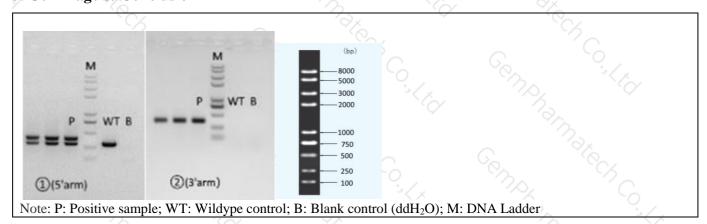
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a Targeted band.

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

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size	
① (5'arm)	T008710-F1	AATGCAGGAGGCTTGGAATG	WT:309bp	
	T008710-R1	CAGCCAACTTTCCTGATCCAG	Targeted:414bp	
② (3'arm)	T008710-F2	GCATCGCATTGTCTGAGTAGGTG	WT:0bp	
	T008710-R2	CCAAGCGTTTCCAAGTCACTG	Targeted:342bp	

3. Gel Image & Conclusion





- 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	omponent	7/2 C	1/2/x	
Seg.	react	tion component	Volume (μl)	
1 7	2 × Rapid Taq Master Mix(\	2 × Rapid Taq Master Mix (Vazyme P222)		
2	ddH2O	5.	9.5	
3	Primer A(10pmol/μl)	(y) (V)	192	
4	Primer B(10pmol/μl)	Primer B(10pmol/μl)		
5	Template(≈100ng/μl)	Template(≈100ng/μl)		
PCR program ①	priority selection	3/,		
Seg.	Temp.	Time	Cycle	
1	95℃	5min	() Jak	
2	98℃	30s	20×	
3 %	65℃* (-0.5℃/cycle)	30s ×	3	
1	72°C	45s*	3/2 3/2	
5 6	98℃	30s	20×	
5	55℃*	30s	877 S	
7 2	72℃	45s*		
3	72℃	5min	7	
900	10℃	hold	500	
PCR program ②	the second choice		70	
Seg.	Temp.	Time	Cycle	
1	95℃	5min	J. J	
2	98℃	30s	35×	
3 6	58℃*	30s	6	
1 %	72℃	45s*	3/6/	
5	72℃	5min	73,	
 5	10°C	hold	*3.	

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

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			16. /x		
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	5/x	12			3/1