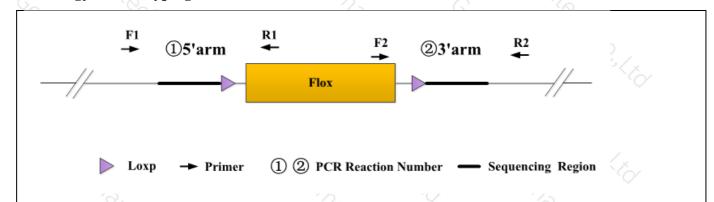
Genotyping Report

Strain ID	T022252	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	3/2	Alkbh7	C

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.

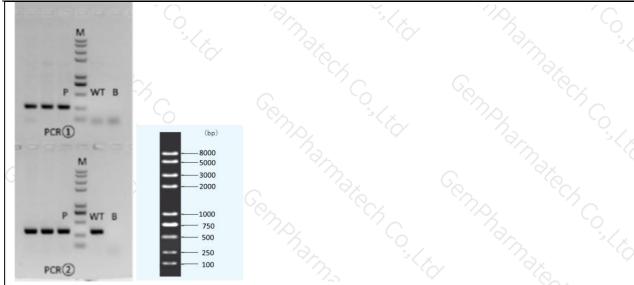
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

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

2. Primer Information

/ / Jru			7//
PCR No.	Primer No.	Sequence	Band Size
①(5'arm)	T022252-F1	AGCTCAGAGCAGCGCAGTATTACA	WT: 253bp Targeted: 358bp
	T022252-R1	2-R1 TCCCTAGTGAAACTCCCAACTGCT	
②(3'arm)	T022252-F2	GGCCACGAGAATATCATTTATTGC	WT: 284bp
	T022252-R2	GCTGATGTGACCTTCCTTGATGATC	- Targeted: 390bp

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

PCR Reaction Comp	onent	· · · · · · · · · · · · · · · · · · ·	10 3/.	
Seg.	reaction co	Volume (μl)		
1 📞	2 × Rapid Taq Master Mix (Vazymo	12.5		
2	ddH2O	3/4 %	9.5	
3	Primer A(10pmol/μl)	(A)	1, 3/x	
4	Primer B(10pmol/μl)	17		
5	Template(≈100ng/μl)	Jax Co	1	
PCR program ① pr	iority selection	(S) (1)	, 7 _C	
Seg.	Temp.	Time	Cycle	
1 7	95℃	5min	J35 1	
2	98℃	30s	20×	
3	65℃* (-0.5℃/cycle)	30s	0	
4	72℃	45s*	70, 34	
5	98℃	30s	20×	
6	55℃*	30s	() x	
7	72℃	45s*	760	
8	72℃	5min	20 C	
9	10℃	hold	3/2 3/	



PCR progran	m② the second choice	92	3/x	70	/ C
Seg.	Temp.		Time		Cycle
1	95℃	(C)	5min		J ³ ×
2	98℃	C _C	30s	(C)	35×
3	58℃*	(No.	30s	~/	
4	72℃	294	45s*		3
5	72℃	7	5min	C _C	970
6	10℃	G _C	hold	700,	770

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