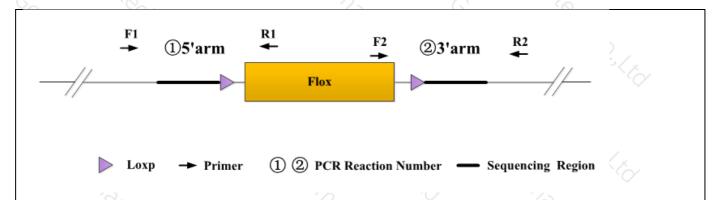
Genotyping Report

Strain ID	T022146	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	3/2	Lipa	0

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.

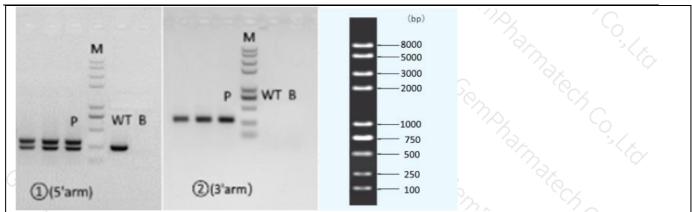
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

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

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
①(5'arm)	T022146-F1	GACAGAAGATGGATTGACCAGCTA	WT: 162bp
	T022146-R1 AAAGTGTTCGTTATCCTCTCTGCC		Targeted: 266bp
②(3'arm)	T022146-F2	TCTGAGGCGGAAAGAACCAG	WT:0bp
	T022146-R2	GCAAGGCAGATTAACAGCATTGAC	Targeted:270bp

3. Gel Image & Conclusion



Note: P: Positive control; 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 Cor	mponent	77.	7/3 ₂
Seg.	reaction co	Volume (μl) 12.5	
1 70,	2 × Rapid Taq Master Mix(Vazym		
2	ddH2O		9.5
3	Primer A(10pmol/μl)	Č.	1 7
4	Primer B(10pmol/μl)	7°C 6°	1
5	Template(≈100ng/μl)	3/x	2 1 C
PCR program ①	priority selection	, (V)	32 3/x
Seg.	Temp.	Time	Cycle
1	95℃	5min	7.°C/2 -
2	98°C	30s	20×
3	65℃* (-0.5℃/cycle)	30s	7/2 3/2 3/2 3/2 3/2 3/2 3/2 3/2 3/2 3/2 3
4	72℃	45s*	7×
5	98℃	30s	20×
6	55℃*	30s	
7	72℃	45s*	70,
8	72℃	5min	29/2
9	10℃	hold	Dax.
PCR program ②	the second choice	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	5
Seg.	Temp.	Time	Cycle



1	1/2/12/2	95℃	19 ₁₂	5min		(S)	,
2	· 1921	98℃	9×	30s		35×	Ó
3 (Z. ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	58℃*	5	30s	C ₂	AX.	
4	70/	72℃	G C	45s*	³ 70.	7 _C	
5	73/2	72℃	70	5min	7	24 3/x	
6	, Jax	10℃	, 9 ¹²	hold		(J) (Q	<i>></i>

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