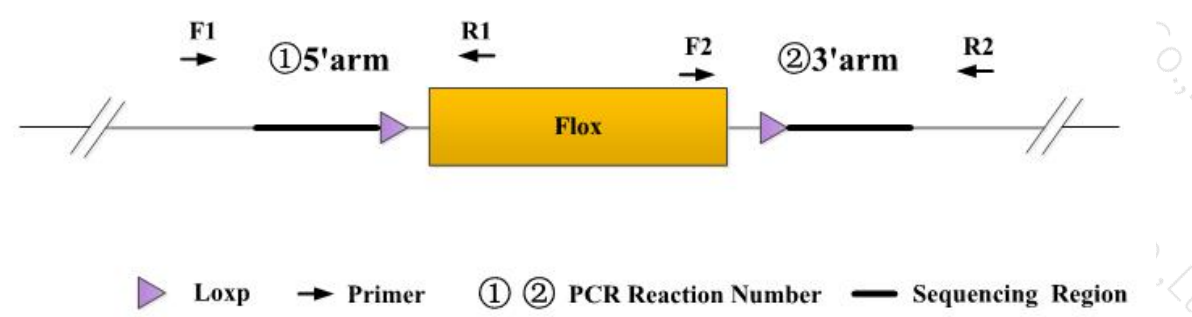


## Genotyping Report

Strain ID	T005421	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	<i>Trim72</i>		

### 1. Strategy of Genotyping



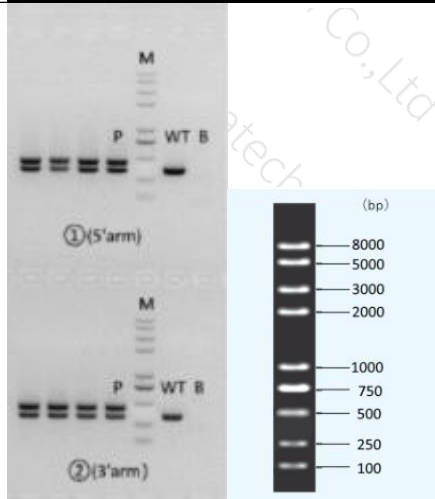
Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.  
 Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a WT band and a Targeted band.  
 Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.  
 Note: The sizes of WT and Targeted band are shown below.

### 2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
①(5'arm)	F1	T005421-F1A	GGGTTGCAGACACACACTATCATG	WT:350bp Targeted:431bp
	R1	T005421-R1A	GGGCCTAACCATACTTCATCCTAGT	
②(3'arm)	F2	T005421-F2A	CTGTGCTTAGAGAAGGACCTTTGAG	WT:386bp Targeted:464bp
	R2	T005421-R2A	AAGAGCCAAGAAGCCCAGTTCTG	

### 3. Gel Image & Conclusion

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Note: P: Positive control; WT: Wildtype control; B: Blank control (ddH<sub>2</sub>O); M: DNA Ladder

#### 4. PCR Condition

PCR Reaction Component			
Seg.	reaction component		Volume (μl)
1	2 × Taq Master Mix , Dye Plus, (Vazyme P112-03)		12.5
2	ddH <sub>2</sub> O		9.5
3	Primer A(10pmol/μl)		1
4	Primer B(10pmol/μl)		1
5	Template(≈100ng/μl)		1
PCR program			
Seg.	Temp.	Time	Cycle
1	95 °C	5min	
2	98 °C	30s	20×
3	65 °C (-0.5 °C/cycle)	30s	
4	72 °C	45s	
5	98 °C	30s	
6	55 °C	30s	20×
7	72 °C	45s	
8	72 °C	5min	
9	10 °C	hold	