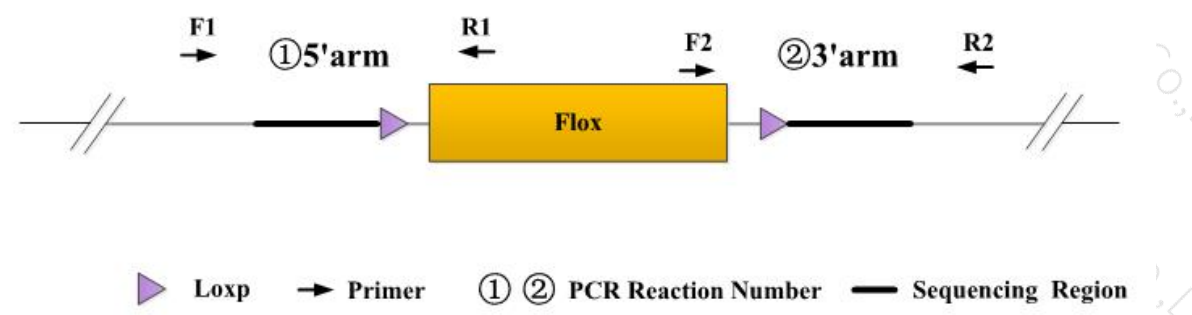


## Genotyping Report

|           |            |             |                |                    |             |
|-----------|------------|-------------|----------------|--------------------|-------------|
| Strain ID | T038761    | Strain Type | CKO(Cas9)      | Genetic Background | C57BL/6JGpt |
| Designer  | Shiyu Zhou | Gene Name   | <i>Angptl1</i> |                    |             |

### 1. Strategy of Genotyping

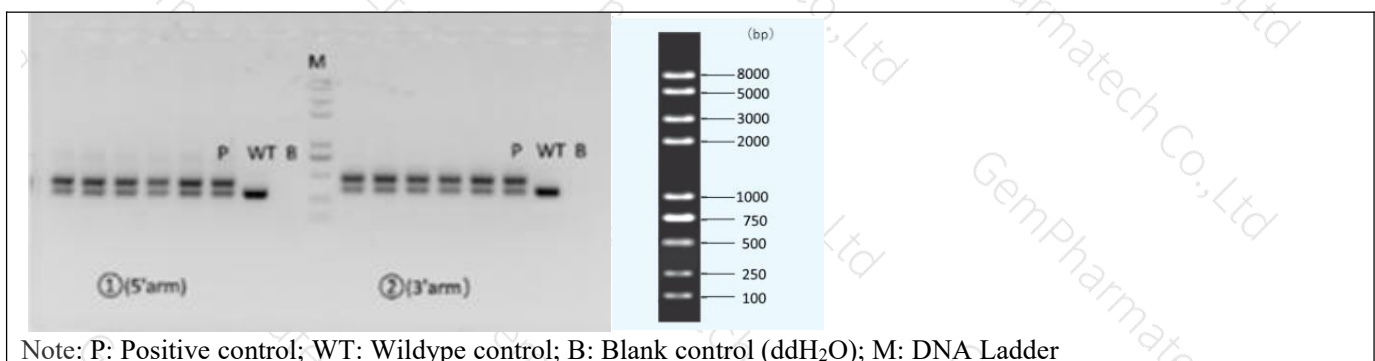


Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.  
Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a WT band and a Targeted band.  
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single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

### 2. Primer Information

| PCR No.  | Primer No.  | Sequence                  | Band Size                    |
|----------|-------------|---------------------------|------------------------------|
| ①(5'arm) | T038761 -F1 | ATGCCTGGTGAATACTATGAA     | WT: 286bp<br>Targeted: 391bp |
|          | T038761 -R1 | GGAATGTTGGTCTAAATGCTCCCT  |                              |
| ②(3'arm) | T038761 -F2 | CTTACAACCTTTCACAGGGTGAAGT | WT: 350bp<br>Targeted: 456bp |
|          | T038761 -R2 | GCTTTGGTTCCACATTGACACTTTC |                              |

### 3. Gel Image & Conclusion



### 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        |       |