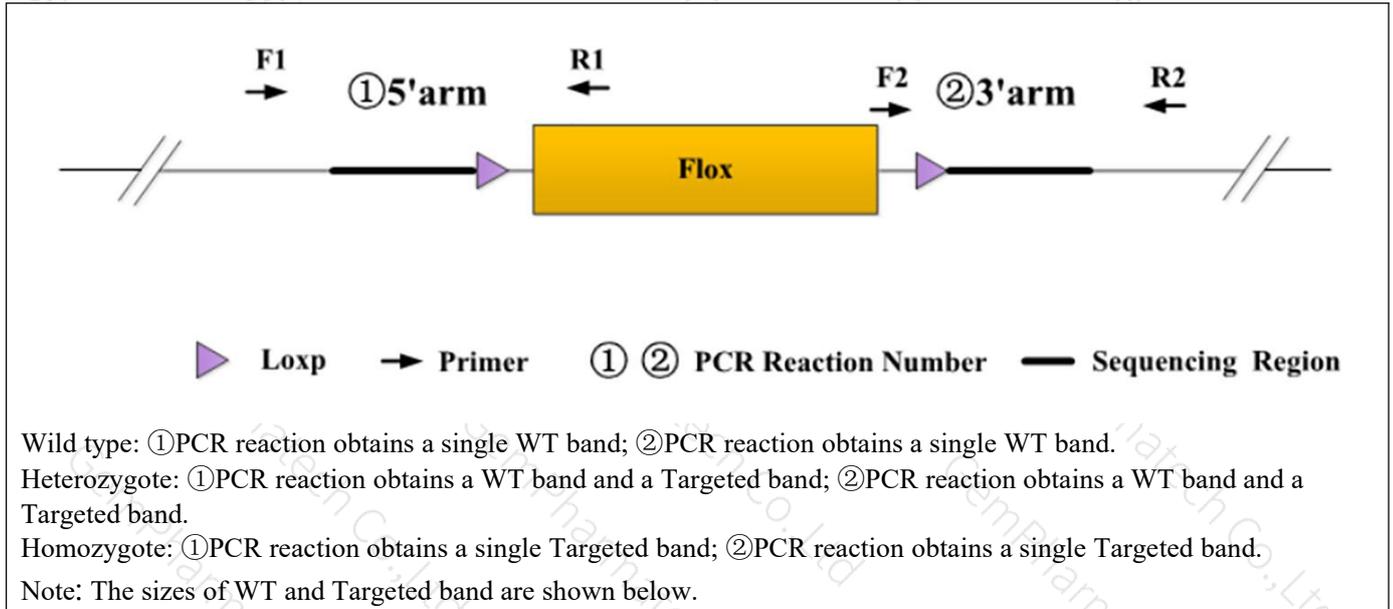


## Genotyping Report

|           |           |             |              |                    |             |
|-----------|-----------|-------------|--------------|--------------------|-------------|
| Strain ID | T022173   | Strain Type | CKO(Cas9)    | Genetic Background | C57BL/6JGpt |
| Designer  | Ya'nan Xu | Gene Name   | <i>Actc1</i> |                    |             |

### 1. Strategy of Genotyping

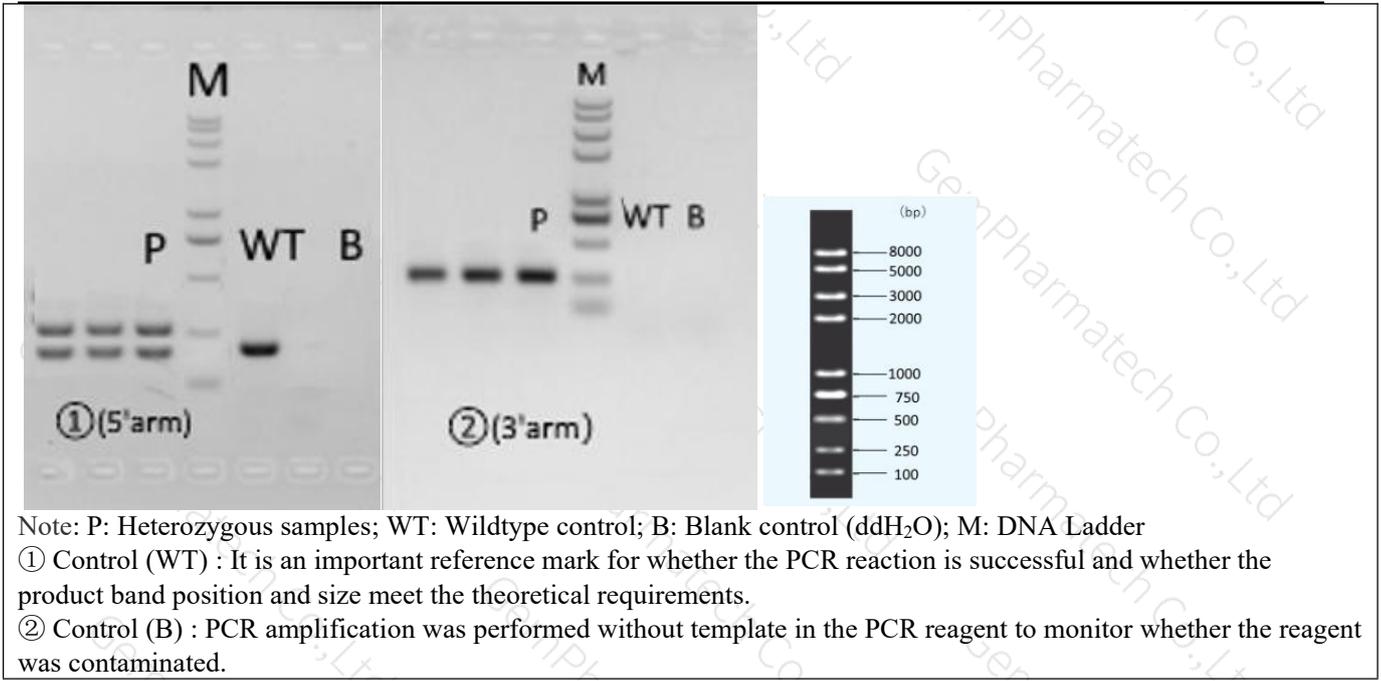


### 2. Primer Information

| PCR No.  | Primer No. | Primer Name           | Sequence                  | Band Size                  |
|----------|------------|-----------------------|---------------------------|----------------------------|
| ①(5'arm) | F1         | JS22467-Actc1-5wt-tF1 | GTCAGATGTGACCAGAGCAACAAGT | WT:186bp<br>Targeted:290bp |
|          | R1         | JS22467-Actc1-5wt-tR1 | GGAAAGTCAAACCCTCAGAGTATCC |                            |
| ②(3'arm) | F2         | NEO-3F                | TCTGAGGCGGAAAGAACCAG      | Targeted:250bp             |
|          | R2         | JS22467-Actc1-3wt-tR1 | TGAATCTCACTCTGTAGCCCAAGC  |                            |

### 3. Gel Image & Conclusion

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|  |
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#### 4. PCR Condition

| PCR Reaction Component           |  |      |             |
|----------------------------------|--|------|-------------|
| Seg.                             | reaction component                     |      | Volume (μl) |
| 1                                | 2 × Rapid Taq Master Mix (Vazyme P222) |      | 12.5        |
| 2                                | ddH <sub>2</sub> O                     |      | 9.5         |
| 3                                | Primer A(10pmol/μl)                    |      | 1           |
| 4                                | Primer B(10pmol/μl)                    |      | 1           |
| 5                                | Template(20~80ng/μl)                   |      | 1           |
| PCR program I priority selection |  |      |             |
| Seg.                             | Temp.                                  | Time | Cycle       |
| 1                                | 95℃                                    | 5min | 20×         |
| 2                                | 98℃                                    | 30s  |             |
| 3                                | 65℃* (-0.5℃/cycle)                     | 30s  |             |
| 4                                | 72℃                                    | 45s* |             |
| 5                                | 98℃                                    | 30s  | 15×         |
| 6                                | 55℃*                                   | 30s  |             |
| 7                                | 72℃                                    | 45s* |             |
| 8                                | 72℃                                    | 5min |             |
| 9                                | 10℃                                    | hold |             |
| PCR program II the second choice |  |      |             |

| Seg. | Temp. | Time | Cycle |
|------|-------|------|-------|
| 1    | 95°C  | 5min |       |
| 2    | 98°C  | 30s  | 35×   |
| 3    | 58°C* | 30s  |       |
| 4    | 72°C  | 45s* |       |
| 5    | 72°C  | 5min |       |
| 6    | 10°C  | hold |       |

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