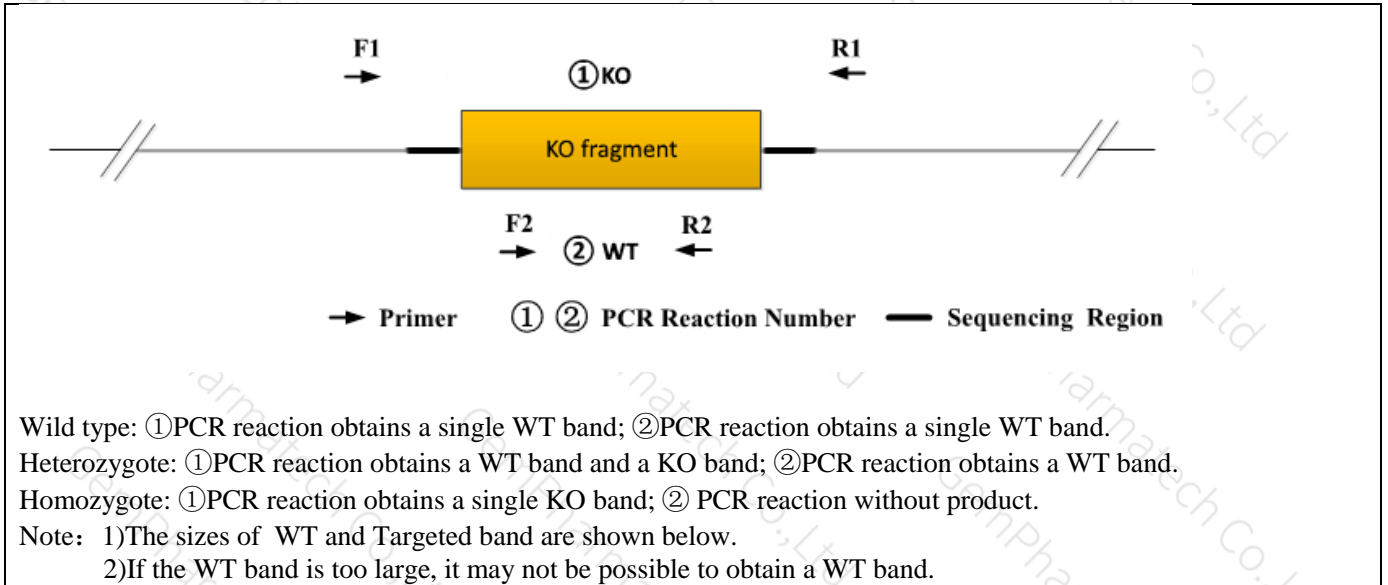


## Genotyping Report

|           |           |             |          |                    |             |
|-----------|-----------|-------------|----------|--------------------|-------------|
| Strain ID | T033866   | Strain Type | KO(Cas9) | Genetic Background | C57BL/6JGpt |
| Designer  | Zifan Lin | Gene Name   | Zfp637   |                    |             |

### 1. Strategy of Genotyping

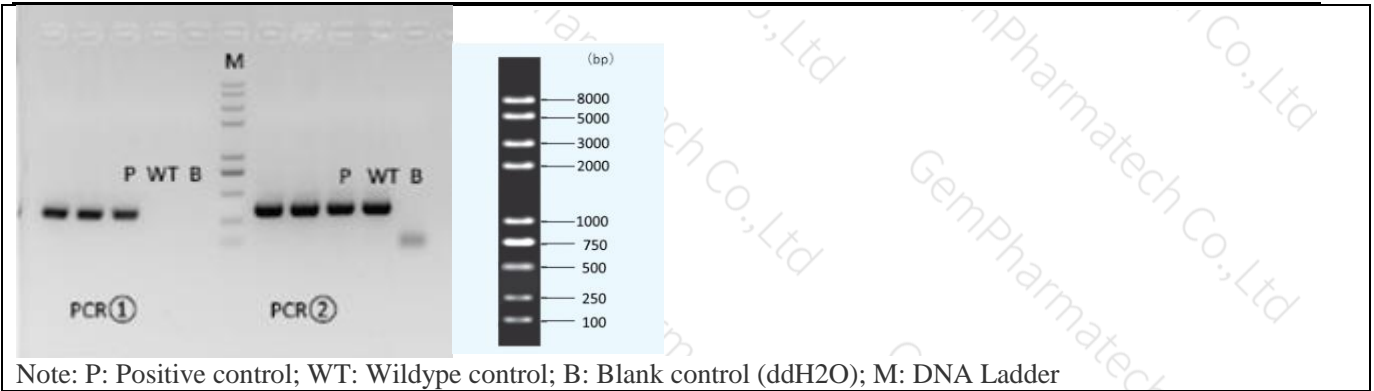


### 2. Primer Information

| PCR No. | Primer No. | Primer Name            | Sequence                   | Band Size             |
|---------|------------|------------------------|----------------------------|-----------------------|
| PCR①    | F1         | JS24800-Zfp637-5wt-tF1 | CACTGGAACAGACAGTAAGCTGCATC | WT:2999bp<br>KO:289bp |
|         | R1         | JS24800-Zfp637-3wt-tR1 | TCTCTCTACAAAACCAACCTCTCCTC |                       |
| PCR②    | F2         | JS34800-Zfp637-wt-F1   | TCACCTGGAGTGAGGCAGAAGGT    | WT:349bp<br>KO:0bp    |
|         | R2         | JS34800-Zfp637-wt-R1   | CGCTGTGAACTCTTCGGTGCA      |                       |

### 3. Gel Image

agccattgcagtgttagcctaagggcttcccactg-----2710bp-----tgctgtgctcctcctacgcactgacaatttgaaa



#### 4. PCR Condition

| PCR Reaction Component |   |             |       |
|------------------------|---|-------------|-------|
| Seg.                   | reaction component                              | Volume (μl) |       |
| 1                      | 2 × Taq Master Mix , Dye Plus, (Vazyme P112-03) | 12.5        |       |
| 2                      | ddH2O   | 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℃   | 5min        |       |
| 2                      | 98℃   | 30s         | 20×   |
| 3                      | 65℃ (-0.5℃/cycle)                               | 30s         |       |
| 4                      | 72℃   | 45s         |       |
| 5                      | 98℃   | 30s         |       |
| 6                      | 55℃   | 30s         | 20×   |
| 7                      | 72℃   | 45s         |       |
| 8                      | 72℃   | 5min        |       |
| 9                      | 10℃   | hold        |       |

Reviewer:Ting Sun

Date:2020-7-1