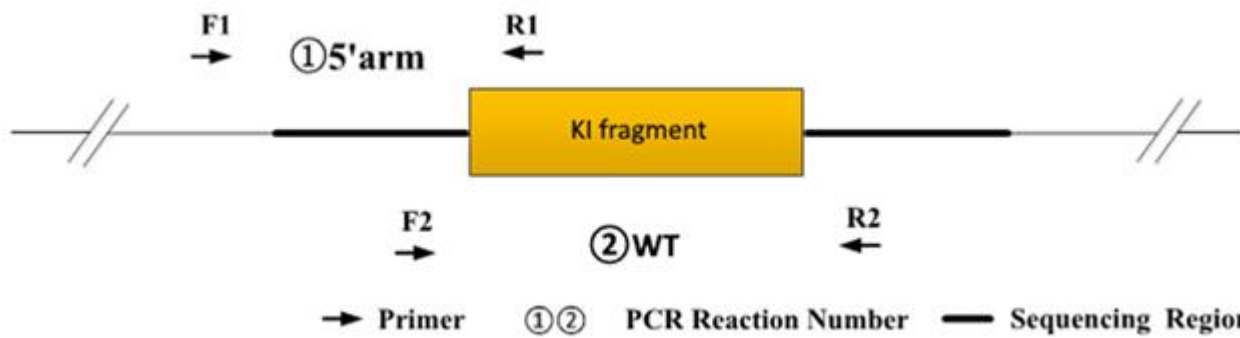


## Genotyping Report

|           |                |             |                   |                    |             |
|-----------|----------------|-------------|-------------------|--------------------|-------------|
| Strain ID | T004820        | Strain Type | KI(Cas9)          | Genetic Background | C57BL/6JGpt |
| Designer  | Dongdong Zhang | Gene Name   | <i>Cdh16-iCre</i> |                    |             |

### 1. Strategy of Genotyping

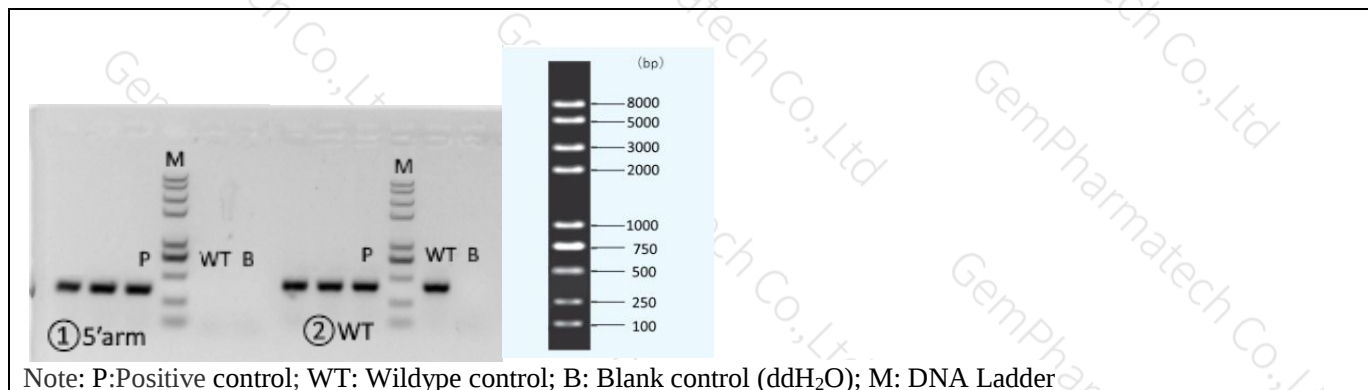


Wild type: ①PCR reaction obtains none band; ②PCR reaction obtains a WT band.  
Heterozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains a WT band.  
Homozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains none band.  
Note: The sizes of WT and Targeted band are shown below.

### 2. Primer Information

| PCR No. | Primer No. | Sequence                 | Band Size                   |
|---------|------------|--------------------------|-----------------------------|
| ①5'arm  | T004820-F1 | GGGCAGTCTGGTACTTCCAAGCT  | WT:0bp<br>Targeted:353bp    |
|         | T004820-R1 | ACTGAGTGCCTACTAACCAGCACC |                             |
| ②WT     | T004820-F2 | CAGCAAAACCTGGCTGTGGATC   | WT:412bp<br>Targeted:3421bp |
|         | T004820-R2 | ATGAGCCACCATGTGGGTGTC    |                             |

### 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                      | 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 | 20×         |
| 2                      | 98℃                                             | 30s  |             |
| 3                      | 65℃（-0.5℃/cycle）                                | 30s  |             |
| 4                      | 72℃                                             | 45s  |             |
| 5                      | 98℃                                             | 30s  | 20×         |
| 6                      | 55℃                                             | 30s  |             |
| 7                      | 72℃                                             | 45s  |             |
| 8                      | 72℃                                             | 5min |             |
| 9                      | 10℃                                             | hold |             |