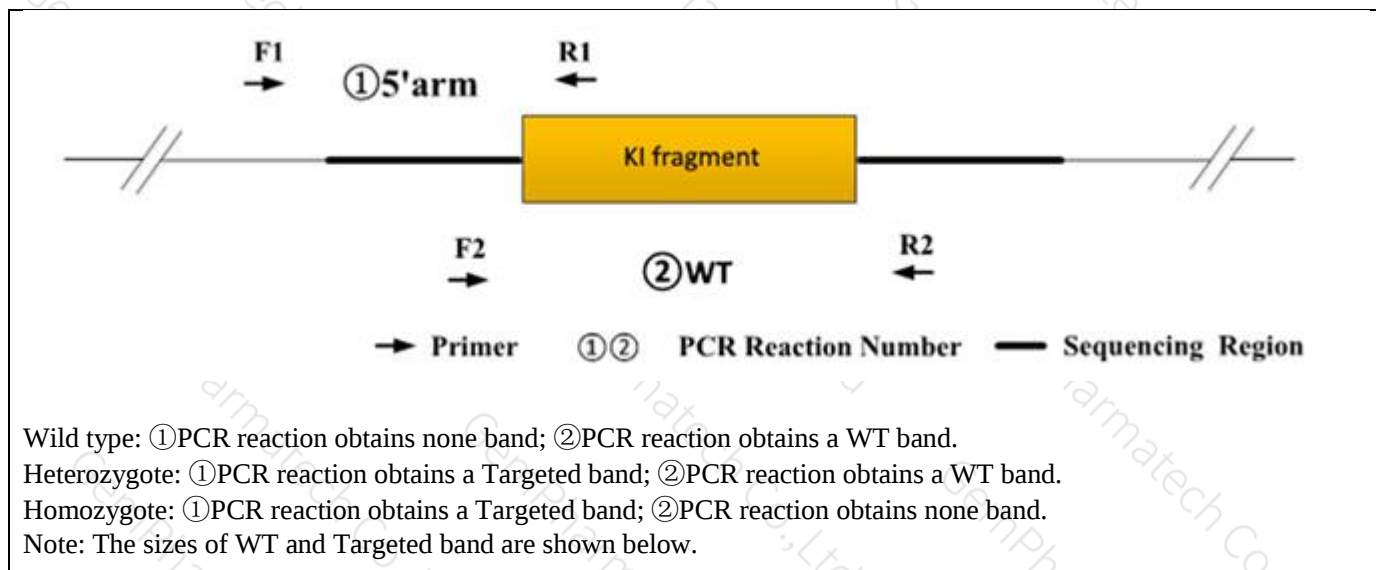


## Genotyping Report

|           |                |             |                     |                    |             |
|-----------|----------------|-------------|---------------------|--------------------|-------------|
| Strain ID | T051253        | Strain Type | KI(Cas9)            | Genetic Background | C57BL/6JGpt |
| Designer  | Dongdong Zhang | Gene Name   | Rab32-p.C222S&C223S |                    |             |

### 1. Strategy of Genotyping

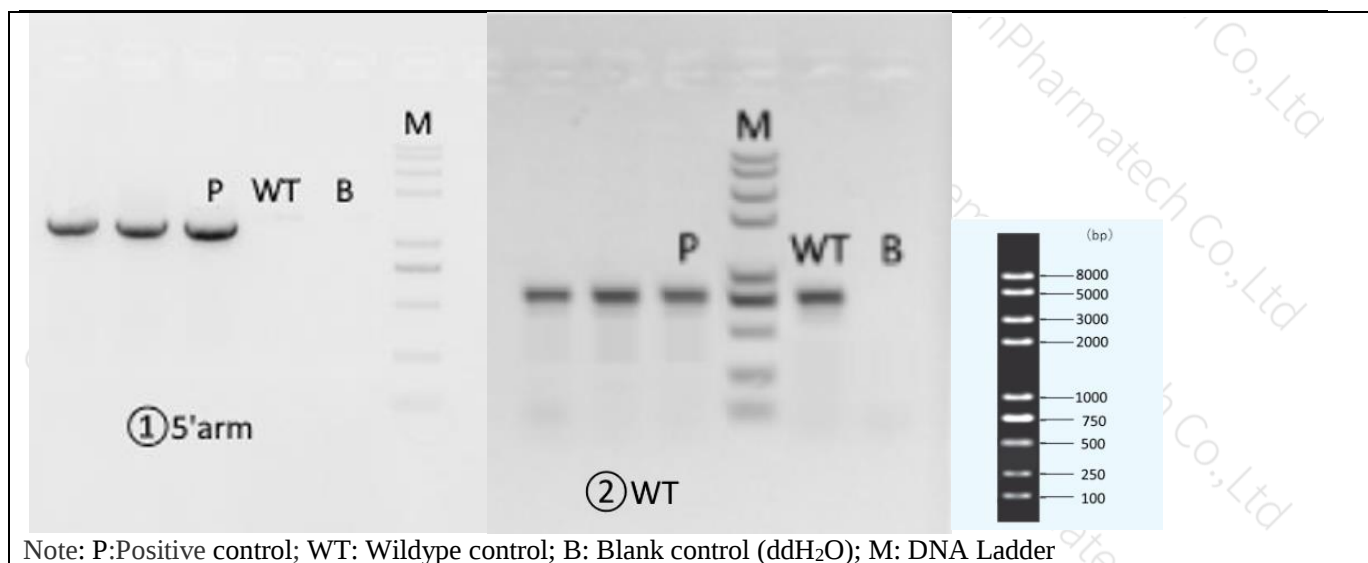


### 2. Primer Information

| PCR No. | Primer No. | Sequence                 | Band Size                   |
|---------|------------|--------------------------|-----------------------------|
| ① 5'arm | T051253-F1 | CGAGAAAGCAGCCTGAATAGAAGC | WT:0bp<br>Targeted:1311bp   |
|         | T051253-R1 | ACTGTTGCCCCAGCTATAACTTCG |                             |
| ② WT    | T051253-F2 | GGCTCTTCTCTGGTCGGTGTTT   | WT:814bp<br>Targeted:3494bp |
|         | T051253-R2 | TCTCATGGGAACAGTTCTCCATG  |                             |

### 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 × 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 |             |