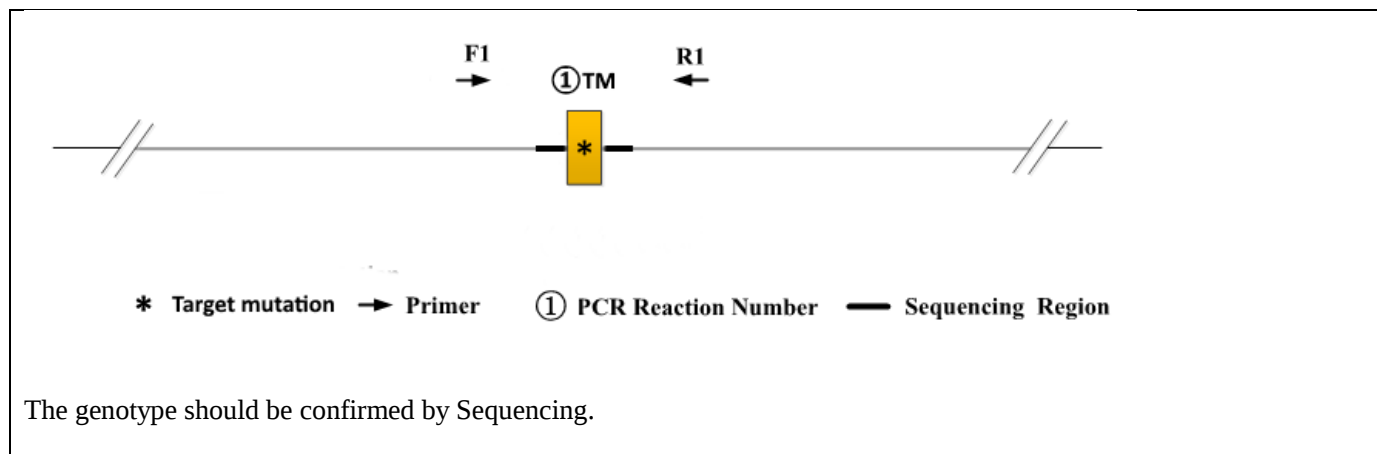


## Genotyping Report

|           |               |             |                   |                    |             |
|-----------|---------------|-------------|-------------------|--------------------|-------------|
| Strain ID | T038192       | Strain Type | KI(Cas9)          | Genetic Background | C57BL/6JGpt |
| Designer  | Tianjiao Wang | Gene Name   | <i>Trex1 D18N</i> |                    |             |

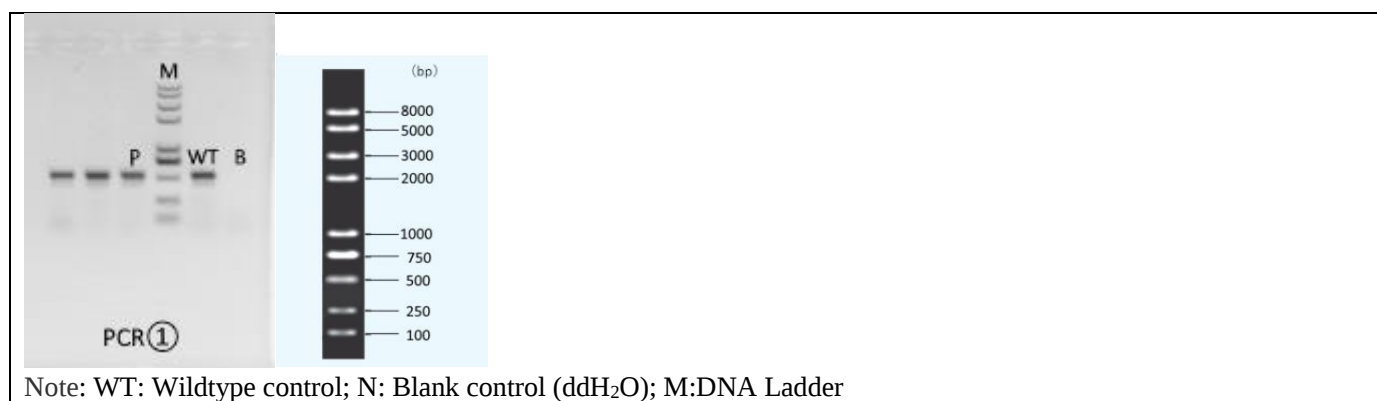
### 1. Strategy of Genotyping



### 2. Primer Information

| PCR No. | Primer Name | Sequence                  | Band Size     |
|---------|-------------|---------------------------|---------------|
| PCR①    | F1          | TCACCCTGAAGGTAGTCAGCACTAG | WT: 529bp     |
|         | R1          | CAGGTTGTCATCGAAGCGTTGAC   | Target: 529bp |

### 3. Gel Image



### 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 |       |