

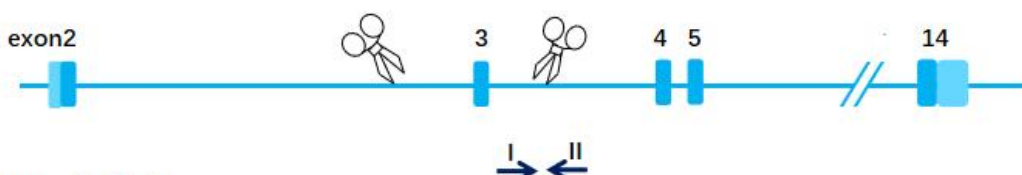
# **Tead1-Flox Genotyping Protocol**



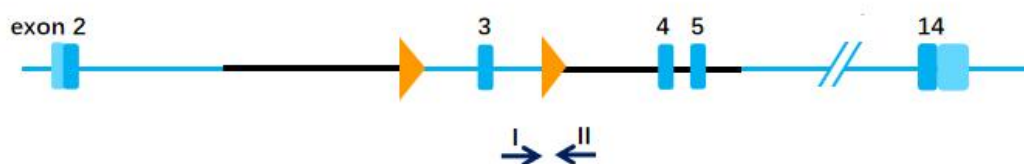
|                         |            |                 |               |
|-------------------------|------------|-----------------|---------------|
| <b>Common Name</b>      | Tead1-Flox | <b>Cat. NO.</b> | NM-CKO-240847 |
| <b>Strain of Origin</b> | C57BL/6J   | <b>Version</b>  | V1            |

## Genotyping strategy

### Wild type allele



### Targeted allele

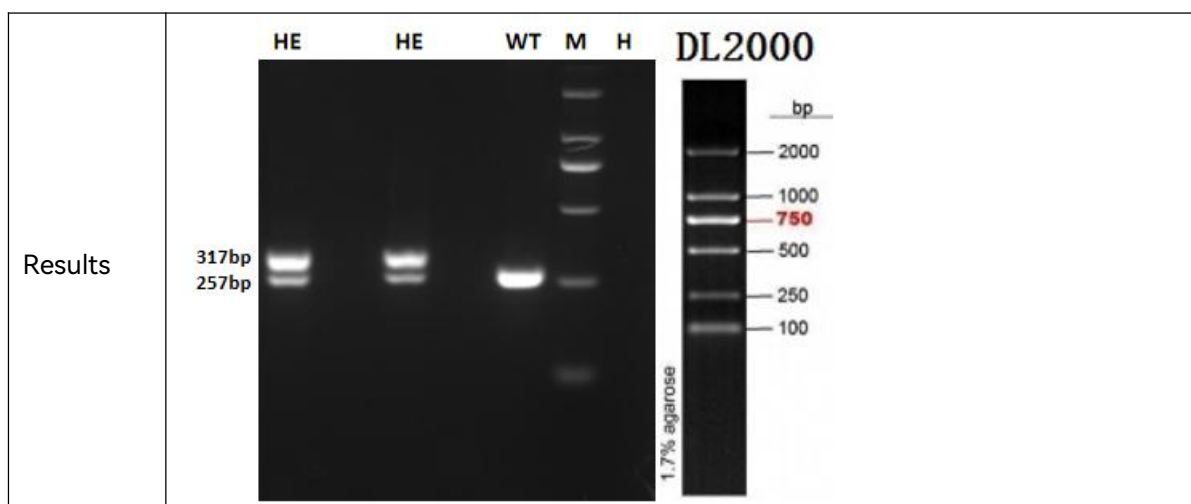


→ : primer location

## Primers

| Primer    | Sequence (5'→3')     | Primer type |
|-----------|----------------------|-------------|
| <b>P1</b> | GGCAAGCCAAGAGATTCGGA | Forward     |
| <b>P2</b> | CCCTGGCCAGAGTCAGAAAA | Reverse     |

## Expected results



|          |                                                                                                               |
|----------|---------------------------------------------------------------------------------------------------------------|
| Genotype | <p>Wild type: P1P2 =257 bp;</p> <p>Heterozygote: P1P2 =317 bp and 257 bp;</p> <p>Homozygote: P1P2 =317 bp</p> |
|----------|---------------------------------------------------------------------------------------------------------------|

## Reaction &Cycling

|                           |                                                            |      |        |                 |
|---------------------------|------------------------------------------------------------|------|--------|-----------------|
| PCR<br>Reaction<br>System | Reaction Component                                         |      |        | Volume (μl)     |
|                           | ddH <sub>2</sub> O                                         |      |        | 8.0             |
|                           | 2 × Rapid Taq Master Mix                                   |      |        | 10.0            |
|                           | P1(10 pmol/μl)                                             |      |        | 0.5             |
|                           | P2(10 pmol/μl)                                             |      |        | 0.5             |
|                           | Genomic DNA                                                |      |        | 1.0             |
|                           | Total                                                      |      |        | 20              |
|                           | 2 × Rapid Taq Master Mix from Vazyme(Code Number: P222-01) |      |        |                 |
| Cycling<br>Reaction       | Step                                                       | Temp | Time   | Note            |
|                           | 1                                                          | 95°C | 5 min  |                 |
|                           | 2                                                          | 95°C | 20 sec |                 |
|                           | 3                                                          | 60°C | 20 sec |                 |
|                           | 4                                                          | 72°C | 20 sec | 35 repeats to 2 |
|                           | 5                                                          | 72°C | 5 min  |                 |
|                           | 6                                                          | 12°C | Hold   |                 |