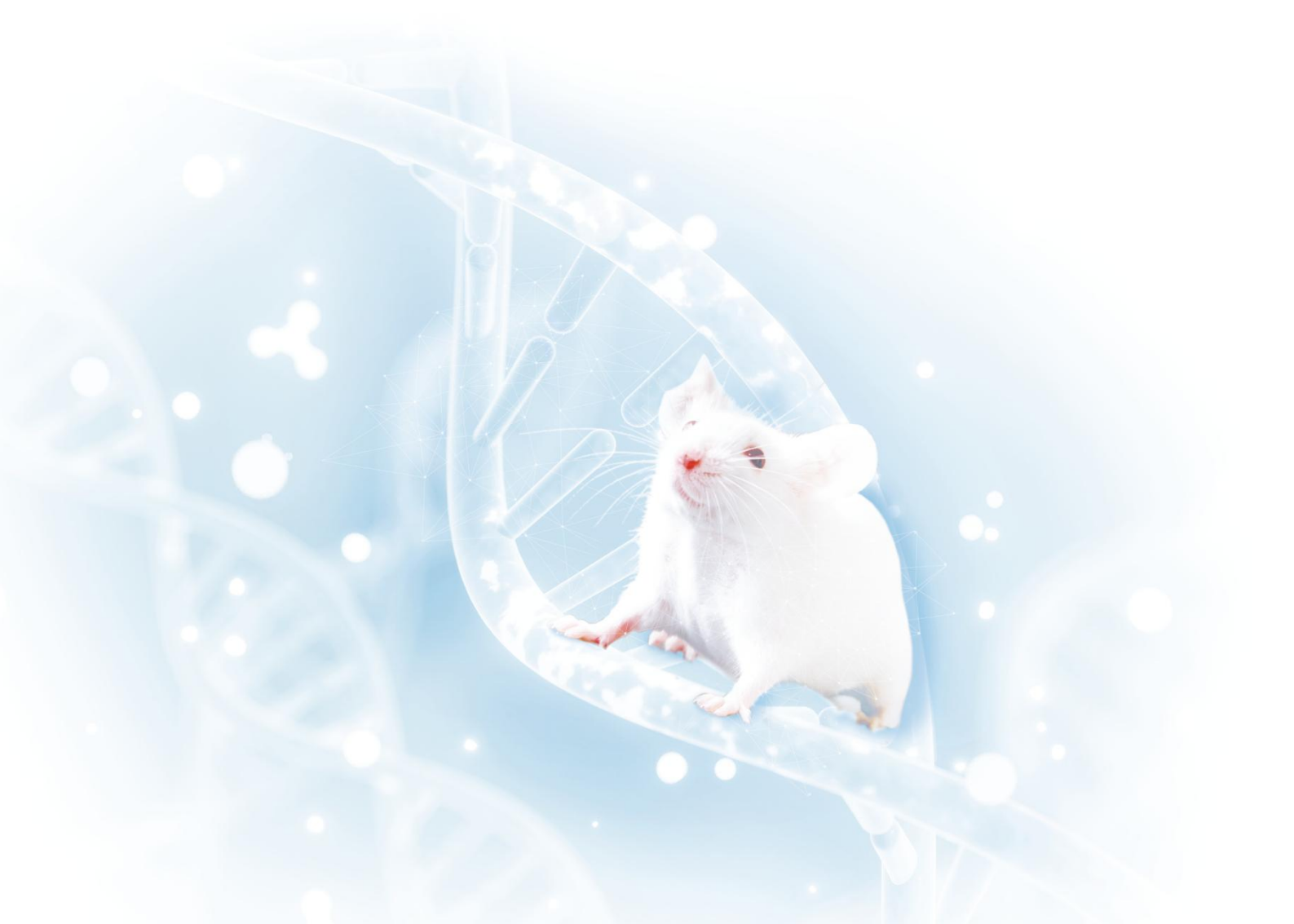


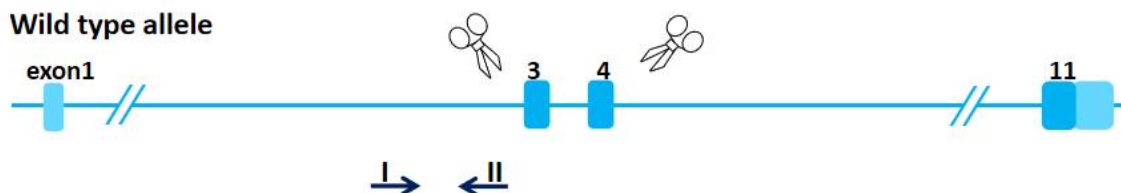
# Cep44-Flox Genotyping Protocol



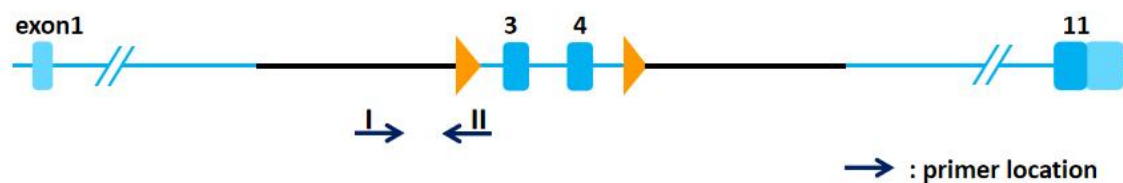
|                  |            |          |               |
|------------------|------------|----------|---------------|
| Common Name      | Cep44-Flox | Cat. NO. | NM-CK0-234075 |
| Strain of Origin | C57BL/6J   | Version  | V1            |

### Genotyping strategy

#### Wild type allele



#### Targeted allele



### Primers

| Primer | Sequence (5' → 3' )   | Primer type |
|--------|-----------------------|-------------|
| P1     | AGGTACAGCTCTCGCGGAA   | Forward     |
| P2     | TGGACAGCCTATCTCCTACGT | Reverse     |

### Expected results

|          |                                                                                                             |
|----------|-------------------------------------------------------------------------------------------------------------|
| Results  |                                                                                                             |
| Genotype | <p>Wild type: P1P2 =257 bp</p> <p>Heterozygote: P1P2 =257 bp and 314 bp</p> <p>Homozygote: P1P2 =314 bp</p> |

### Reaction &Cycling

|                           |                                                         |       |        |                 |
|---------------------------|---------------------------------------------------------|-------|--------|-----------------|
| PCR<br>Reaction<br>System | Reaction Component                                      |       |        | Volume (μl)     |
|                           | ddH <sub>2</sub> O                                      |       |        | 8.0             |
|                           | 2×Taq Plus Master Mix                                   |       |        | 10.0            |
|                           | P1 (10 pmol/μl)                                         |       |        | 0.5             |
|                           | P2 (10 pmol/μl)                                         |       |        | 0.5             |
|                           | Genomic DNA                                             |       |        | 1.0             |
|                           | Total                                                   |       |        | 20              |
|                           | 2×Taq Plus Master Mix from Vazyme (Code Number: P222-1) |       |        |                 |
| 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   |                 |