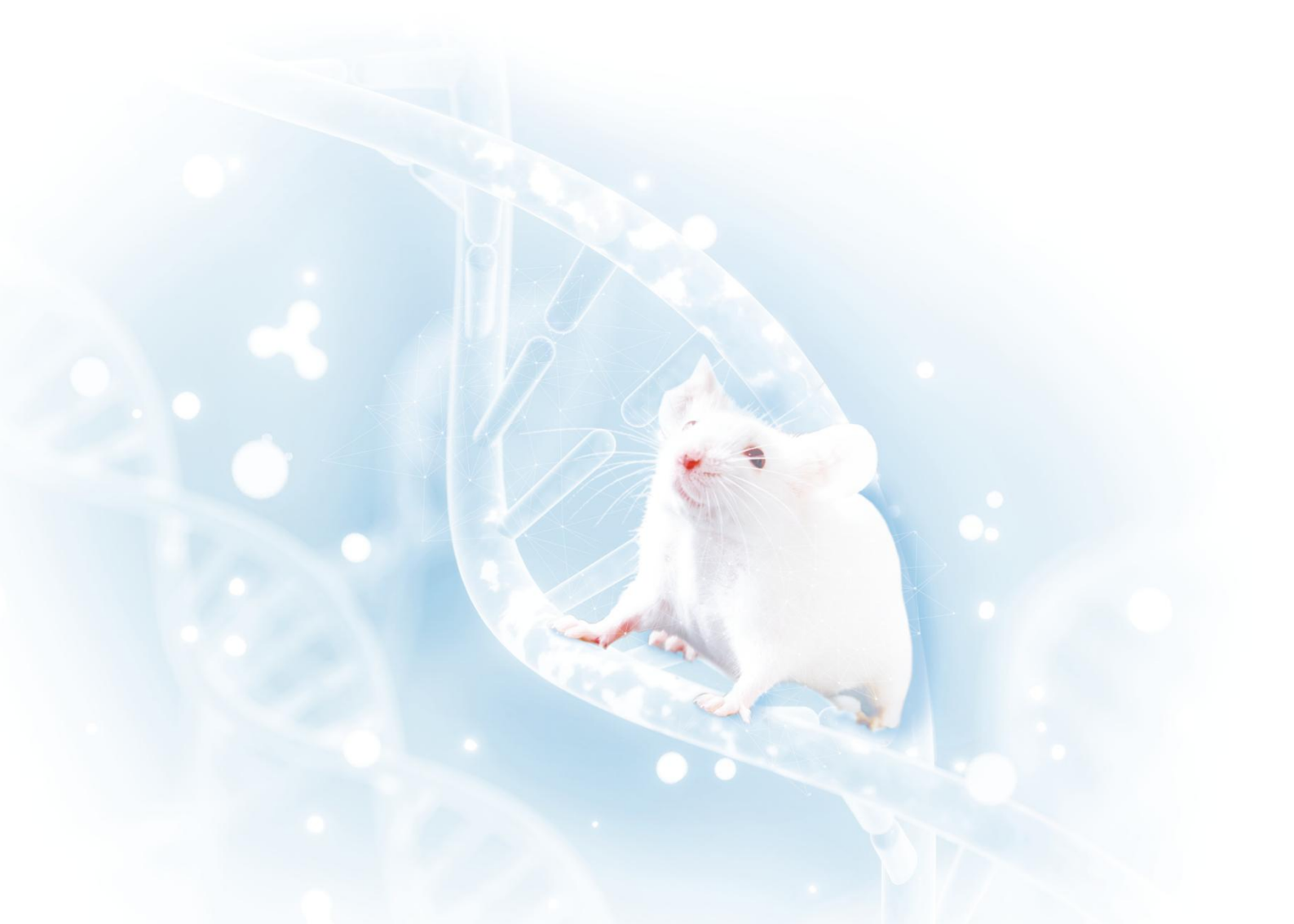
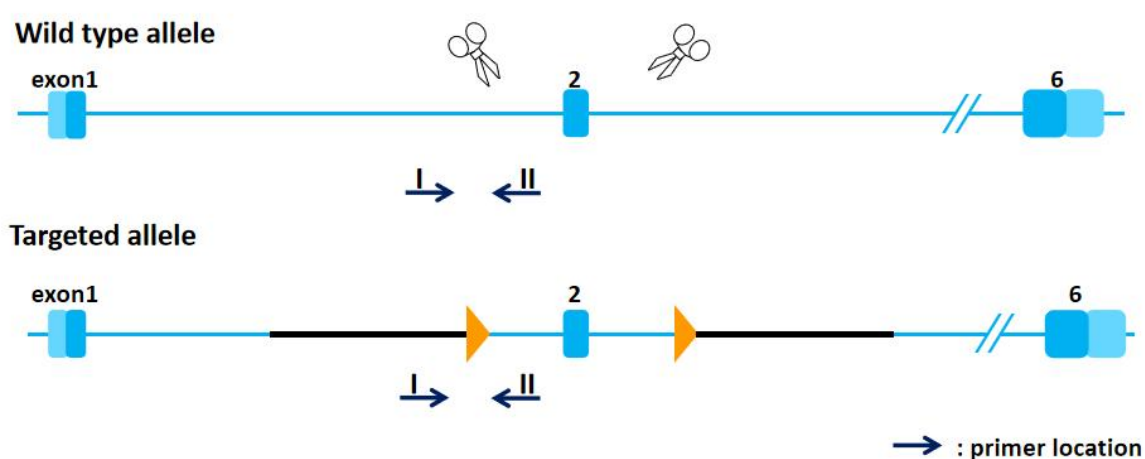


# Aqp9-Flox Genotyping Protocol



|                  |           |          |               |
|------------------|-----------|----------|---------------|
| Common Name      | Aqp9-Flox | Cat. NO. | NM-CK0-234164 |
| Strain of Origin | C57BL/6J  | Version  | V1            |

### Genotyping strategy



### Primers

| Primer | Sequence (5' → 3' )    | Primer type |
|--------|------------------------|-------------|
| P1     | TATTTGAAAAGGGCAGTGGAGC | Forward     |
| P2     | ATGAGGCGTAGTGCATAACCA  | Reverse     |

### Expected results

|          |                                                                                                                                                               |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Results  | <p>HE HE WT H M</p> <p>DL2000</p> <p>bp</p> <p>2000</p> <p>1000</p> <p>750</p> <p>500</p> <p>250</p> <p>100</p> <p>313bp</p> <p>254bp</p> <p>1.7% agarose</p> |
| Genotype | <p>Wild type: P1P2 =254 bp;</p> <p>Heterozygote: P1P2 =313 bp and 254 bp;</p> <p>Homozygote: P1P2 =313 bp</p>                                                 |

### Reaction &Cycling

|                           |                       |             |
|---------------------------|-----------------------|-------------|
| PCR<br>Reaction<br>System | Reaction Component    | Volume (μl) |
|                           | ddH2O                 | 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   |                 |