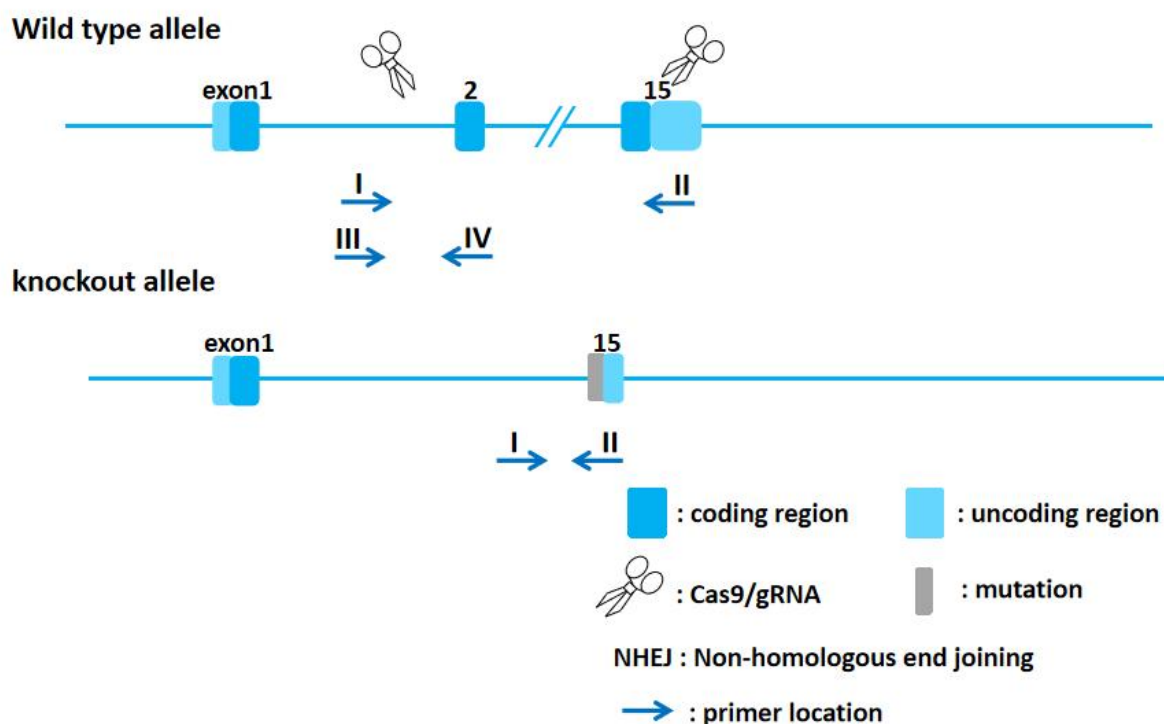


# *Cdh26-KO Genotyping Protocol*



|                  |                  |          |              |
|------------------|------------------|----------|--------------|
| Common Name      | <i>Cdh26</i> -KO | Cat. NO. | NM-KO-240798 |
| Strain of Origin | C57BL/6J         | Version  | V1           |

### Genotyping strategy



### Primers

| Primer | Sequence (5'→3')      | Primer type |
|--------|-----------------------|-------------|
| P1     | GCTGTAGGGCACACAGTCATA | Forward     |
| P2     | TCGAGGTGGCAGGAGTCTAA  | Reverse     |
| P3     | TGCTTATTGCTGTAGGGCACA | Forward     |
| P4     | TCCTTACCTCCCCAACCAGT  | Reverse     |

## Expected results

|          |                                                                                                                                                                            |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Results  |                                                                                                                                                                            |
| Genotype | <p>Knockout type: -45720bp</p> <p>Wild type: P1P2 =46242 bp; P3P4 =450 bp</p> <p>Heterozygote: P1P2 =46242 bp and 522 bp; P3P4 =450 bp</p> <p>Homozygote: P1P2 =522 bp</p> |

*Note: In both wild-type and heterozygous mice, whether the P1 and P2 primers can amplify larger bands does not affect the interpretation of the results, because the purpose of designing this pair of primers is to amplify KO band*

## Reaction & Cycling

|          |                                  |             |
|----------|----------------------------------|-------------|
|          | Reaction Component               | Volume (μl) |
| PCR      | ddH <sub>2</sub> O               | 8.0         |
| Reaction | 2×Rapid Taq Master Mix           | 10.0        |
| System   | P1(10 pmol/μl) or P3(10 pmol/μl) | 0.5         |
|          | P2(10 pmol/μl) or P4(10 pmol/μl) | 0.5         |

|                             |                                                                 |             |               |                        |
|-----------------------------|-----------------------------------------------------------------|-------------|---------------|------------------------|
|                             | <i>Genomic DNA</i>                                              |             |               | <i>1.0</i>             |
|                             | <i>Total</i>                                                    |             |               | <i>20</i>              |
|                             | <i>2×Rapid Taq Master Mix from Vazyme(Code Number: P222-01)</i> |             |               |                        |
| <i>Cycling<br/>Reaction</i> | <i>Step</i>                                                     | <i>Temp</i> | <i>Time</i>   | <i>Note</i>            |
|                             | <i>1</i>                                                        | <i>95°C</i> | <i>5 min</i>  |                        |
|                             | <i>2</i>                                                        | <i>95°C</i> | <i>20 sec</i> |                        |
|                             | <i>3</i>                                                        | <i>60°C</i> | <i>20 sec</i> |                        |
|                             | <i>4</i>                                                        | <i>72°C</i> | <i>20 sec</i> | <i>35 repeats to 2</i> |
|                             | <i>5</i>                                                        | <i>72°C</i> | <i>5 min</i>  |                        |
|                             | <i>6</i>                                                        | <i>12°C</i> | <i>Hold</i>   |                        |