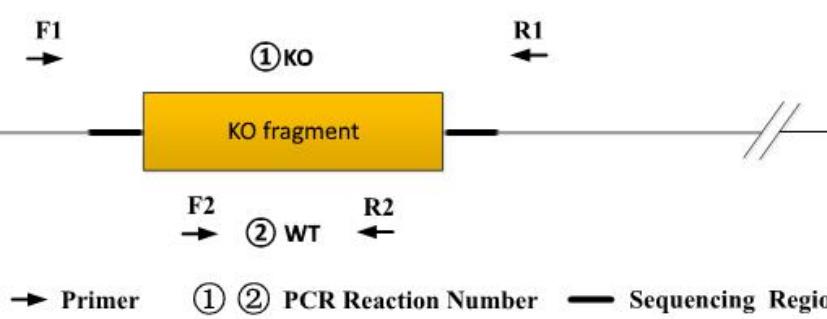




Genotyping Report

| | | | | | |
|-----------|-----------|-------------|----------|--------------------|-------------|
| Strain ID | T015408 | Strain Type | KO(Cas9) | Genetic Background | C57BL/6JGpt |
| Designer | Zifan Lin | Gene Name | | | Lamtor2 |

1. Strategy of Genotyping



Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.

Heterozygote: ①PCR reaction obtains a WT band and a KO band; ②PCR reaction obtains a WT band.

Homozygote: ①PCR reaction obtains a single KO band; ②PCR reaction without product.

Note: 1)The sizes of WT and Targeted band are shown below.

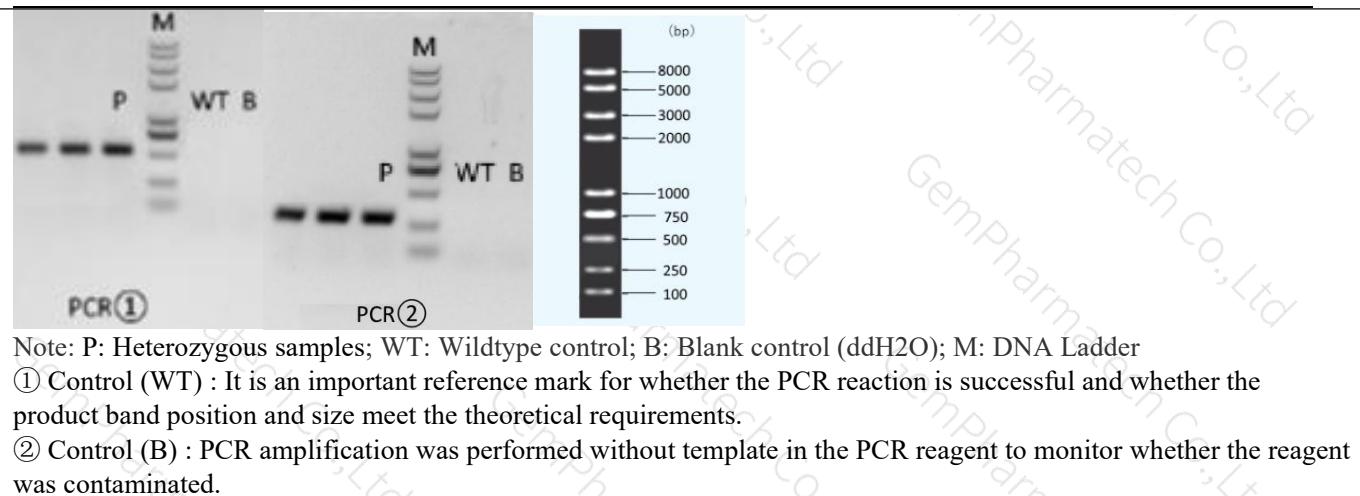
2) If the WT band is too large, it may not be possible to obtain a WT band.

2. Primer Information

| PCR No. | Primer No. | Sequence | Band Size |
|---------|----------------|----------------------------|-------------------------|
| PCR① | T015408(P1)-F1 | AAGCGACTGAGGGAGAGCAAGA | WT: 1335bp KO: 539bp |
| | T015408(P1)-R1 | TGGACTCAGTACCCAGTGTGAATGA | |
| PCR② | T015408(P1)-F2 | TCCTGATGGACTGCATGGTATGGAGT | WT: 307bp KO: 0bp |
| | T015408(P1)-R2 | ACTAGAGGCATAAGCCACCATAGCA | |

3. Gel Image

ttcaagctcgatcgaaaccctgtt---796bp---ccgaggcactttgcagaatgtttctgacaa



4. PCR Condition

PCR Reaction Component

| Seg. | reaction component | Volume (μl) |
|------|--|-------------|
| 1 | 2 × Rapid Taq Master Mix (Vazyme P222) | 12.5 |
| 2 | ddH ₂ O | 9.5 |
| 3 | Primer A(10pmol/μl) | 1 |
| 4 | Primer B(10pmol/μl) | 1 |
| 5 | Template(20~80ng/μl) | 1 |

PCR program I (priority selection)

| Seg. | Temp. | Time | Cycle |
|------|-------------------------|------|-------|
| 1 | 95 °C | 5min | |
| 2 | 98 °C | 30s | 20× |
| 3 | 65 °C * (-0.5 °C/cycle) | 30s | |
| 4 | 72 °C | 45s* | |
| 5 | 98 °C | 30s | 15× |
| 6 | 55 °C * | 30s | |
| 7 | 72 °C | 45s* | |
| 8 | 72 °C | 5min | |
| 9 | 10 °C | hold | |

PCR program II (the second choice)

| Seg. | Temp. | Time | Cycle |
|------|---------|------|-------|
| 1 | 95 °C | 5min | |
| 2 | 98 °C | 30s | 35× |
| 3 | 58 °C * | 30s | |
| 4 | 72 °C | 45s* | |



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| | | | |
|---|------|------|--|
| 5 | 72°C | 5min | |
| 6 | 10°C | hold | |

Note*: Annealing temperature and extension time can be determined according to the actual amplification situation and amplification enzyme efficiency.