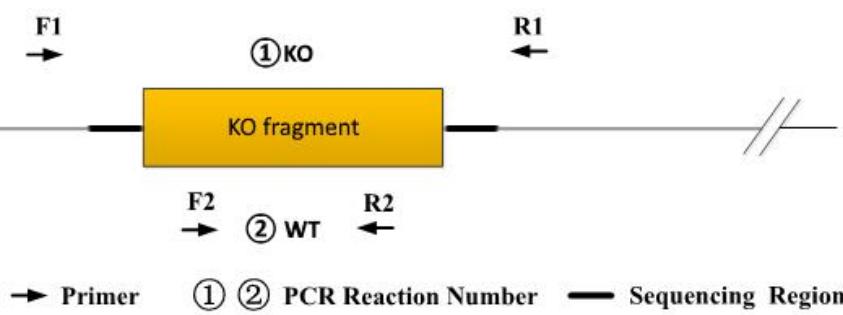




Genotyping Report

| | | | | | |
|-----------|-----------|-------------|----------|--------------------|-------------|
| Strain ID | T027257 | Strain Type | KO(Cas9) | Genetic Background | C57BL/6JGpt |
| Designer | Zifan Lin | Gene Name | | | Dock2 |

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; ② PCR reaction without product.

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

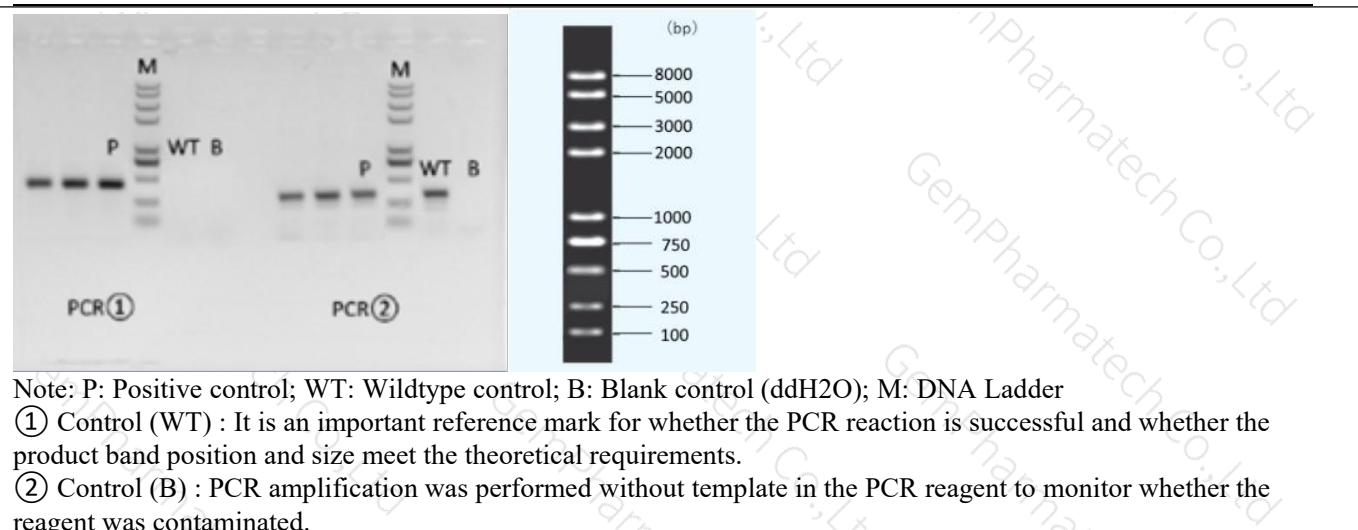
2)If the WT band is too large, it may not be possible to obtain a WT band.

2. Primer Information

| PCR No. | Primer No. | Sequence | Band Size |
|---------|-------------|----------------------------|------------------------------|
| PCR①备用 | T027257-F1A | TCTCTGTCTTGGGTAGGCTACTCAG | WT: 3922bp Targeted:455bp |
| | T027257-R1A | GCCTCAGGTACAGTAATGAACAGCAG | |
| PCR②备用 | T027257-F2A | CCCAACTTCCCTAATTCCCTTCTG | WT:368bp Targeted:0bp |
| | T027257-R2A | AGTTTCAGAGGCTGAAATGAGTCCAC | |

3. Gel Image

cctttaggcattgaccctcaagctggtcatg-----3467bp-----cgcacccattgtgtgccgcgtgcctgttagactatagtct



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(≈100ng/μl) | 1 | |

PCR program ① 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 | 20× |
| 6 | 55 °C * | 30s | |
| 7 | 72 °C | 45s* | |
| 8 | 72 °C | 5min | |
| 9 | 10 °C | hold | |

PCR program ② the second choice

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



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| | | | |
|---|------|------|--|
| 4 | 72°C | 45s* | |
| 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.