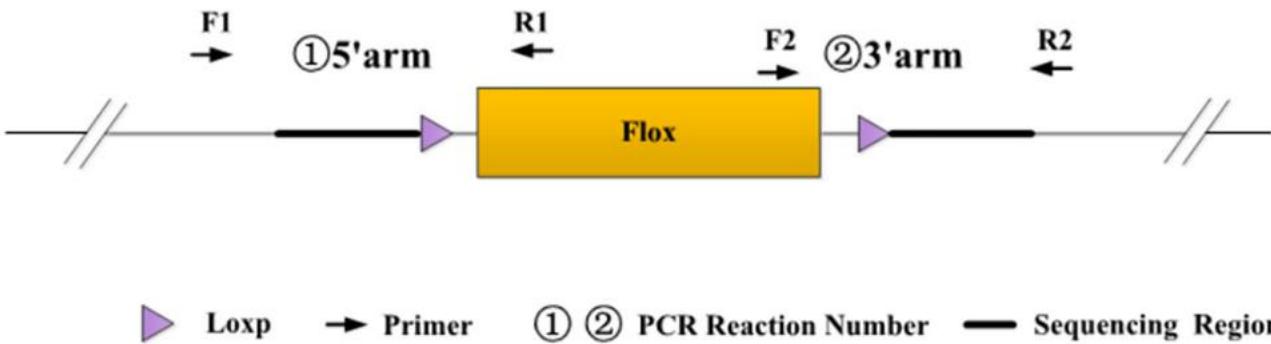




Genotyping Report

| | | | | | |
|-----------|-----------|-------------|-----------|--------------------|-------------|
| Strain ID | T008683 | Strain Type | CKO(Cas9) | Genetic Background | C57BL/6JGpt |
| Designer | Ya'nan Xu | Gene Name | | | Dctn1 |

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 Targeted band; ②PCR reaction obtains a WT band and a Targeted band.

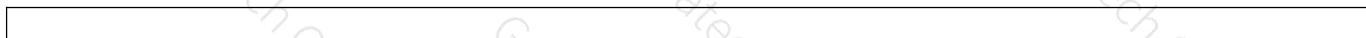
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

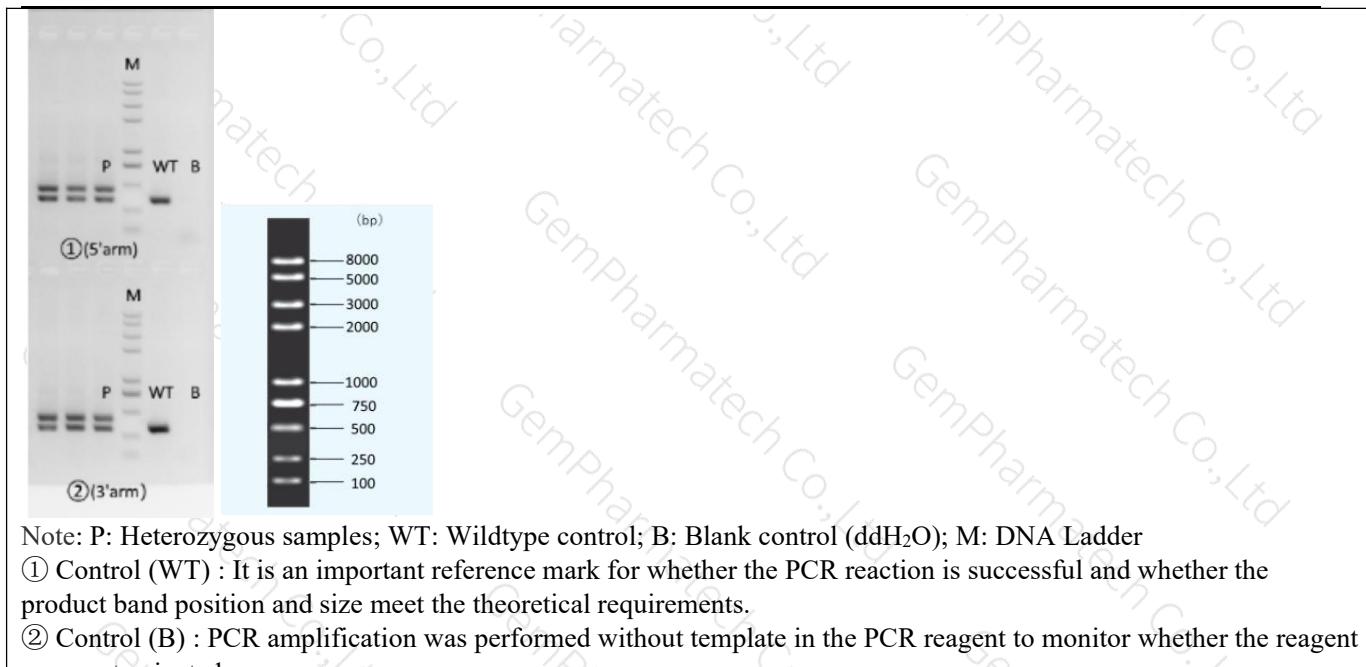
Note: The sizes of WT and Targeted band are shown below.

2. Primer Information

| PCR No. | Primer No. | Primer Name | Sequence | Band Size |
|----------|------------|----------------|----------------------------|------------------------------|
| ①(5'arm) | F1 | T008683(P2)-F1 | GGAGGGTCTTTCTGAGTTGTGTC | WT: 349bp Targeted: 454bp |
| | R1 | T008683(P2)-R1 | GTTCCATGAACCAGAGAGATTGTAGC | |
| ②(3'arm) | F2 | T008683(P2)-F2 | TTGAACCCAGGTCTTACGAATGG | WT: 321bp Targeted: 427bp |
| | R2 | T008683(P2)-R2 | AGTCCATACTAGCCCTGAACTCACG | |

3. Gel Image & Conclusion





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 | 20× |
| 2 | 98 °C | 30s | |
| 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



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