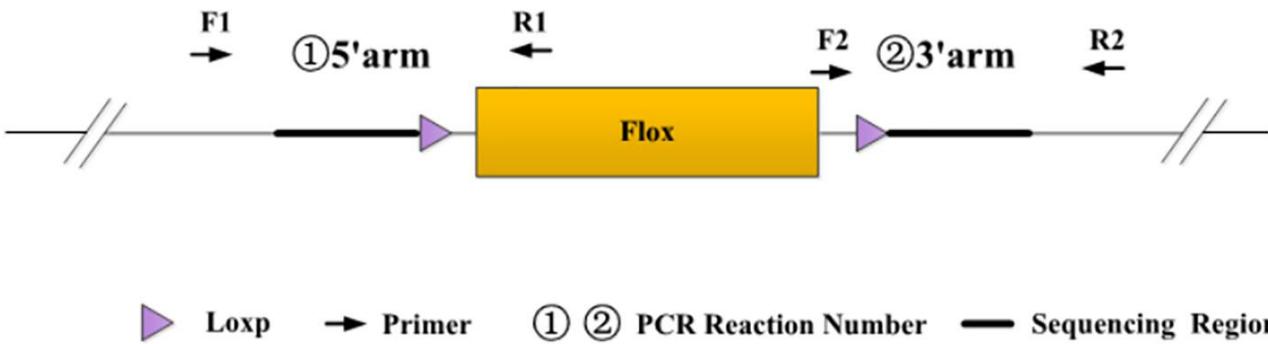




Genotyping Report

| | | | | | |
|-----------|-----------|-------------|-----------|--------------------|--------------|
| Strain ID | T005927 | Strain Type | CKO(Cas9) | Genetic Background | C57BL/6JGpt |
| Designer | Ya'nan Xu | Gene Name | | | <i>Tacr3</i> |

1. Strategy of Genotyping



Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains none band.

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

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

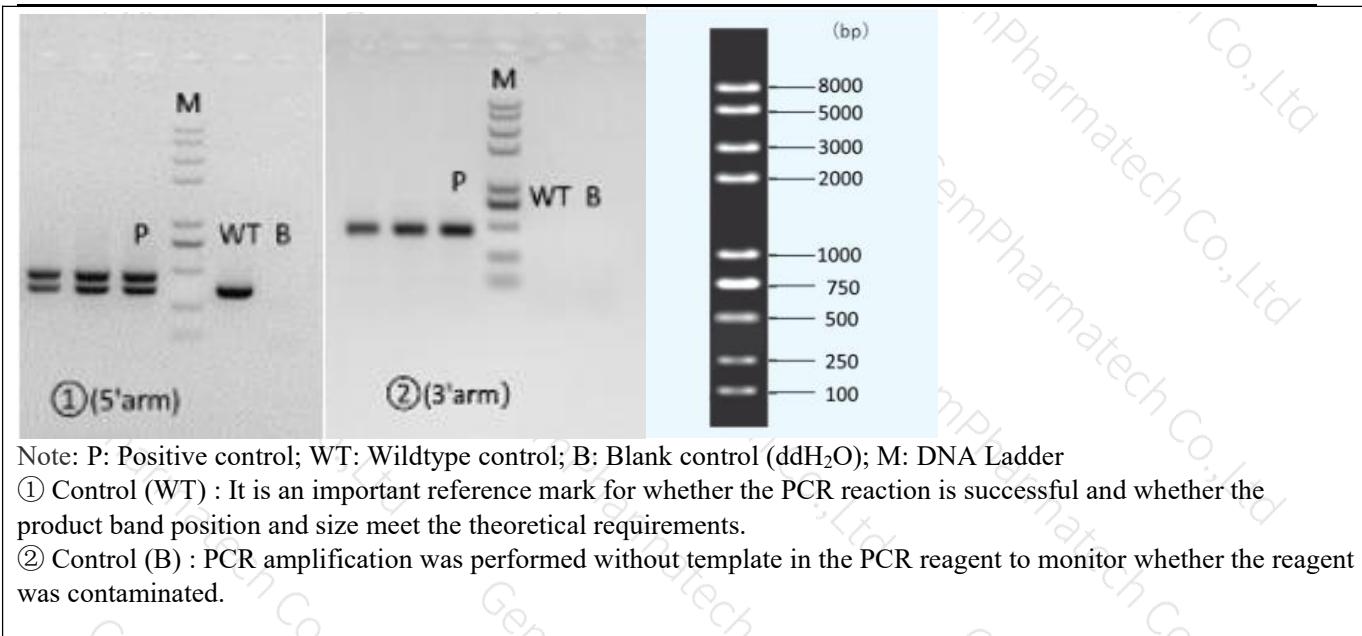
Note: The sizes of WT and Targeted band are shown below.

2. Primer Information

| PCR No. | Primer No. | Sequence | Band Size |
|-------------------------|-------------|---------------------------|------------------------------|
| ①(5'arm) Alternative | T005927-F1A | CTCATAGCTAAATCTGGCAGTTAGC | WT: 372bp Targeted: 452bp |
| | T005927-R1A | AACCCCATGTGAAGGTTGTGG | |
| ②(3'arm) Alternative | T005927-F2A | ACTCACAAAGTTGGTGCAGACTGG | WT:0bp Targeted: 492bp |
| | T005927-R2A | CCAAGTGACCTTGGCAAGAACAT | |

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(≈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* | 20× |
| 5 | 98°C | 30s | |
| 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 |



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| | | | |
|---|-------|------|-----|
| 1 | 95°C | 5min | |
| 2 | 98°C | 30s | 35× |
| 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.