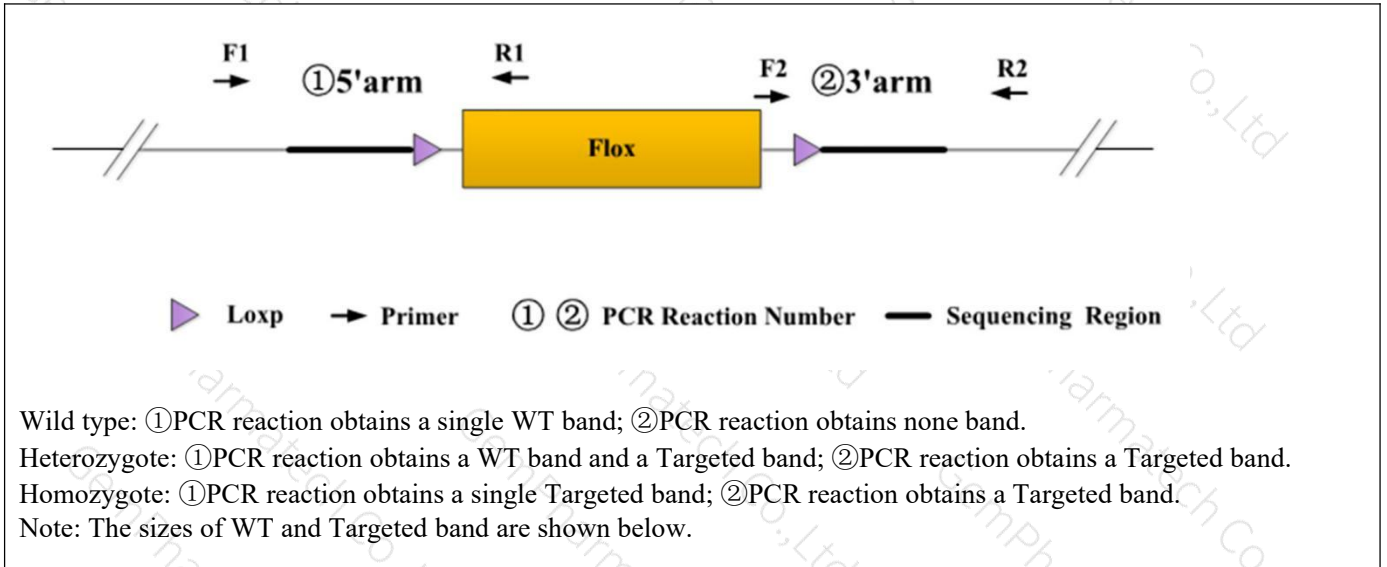


Genotyping Report

| | | | | | |
|-----------|-----------|-------------|-----------|--------------------|-------------|
| Strain ID | T051876 | Strain Type | CKO(Cas9) | Genetic Background | C57BL/6JGpt |
| Designer | Zifan Lin | Gene Name | Trim66 | | |

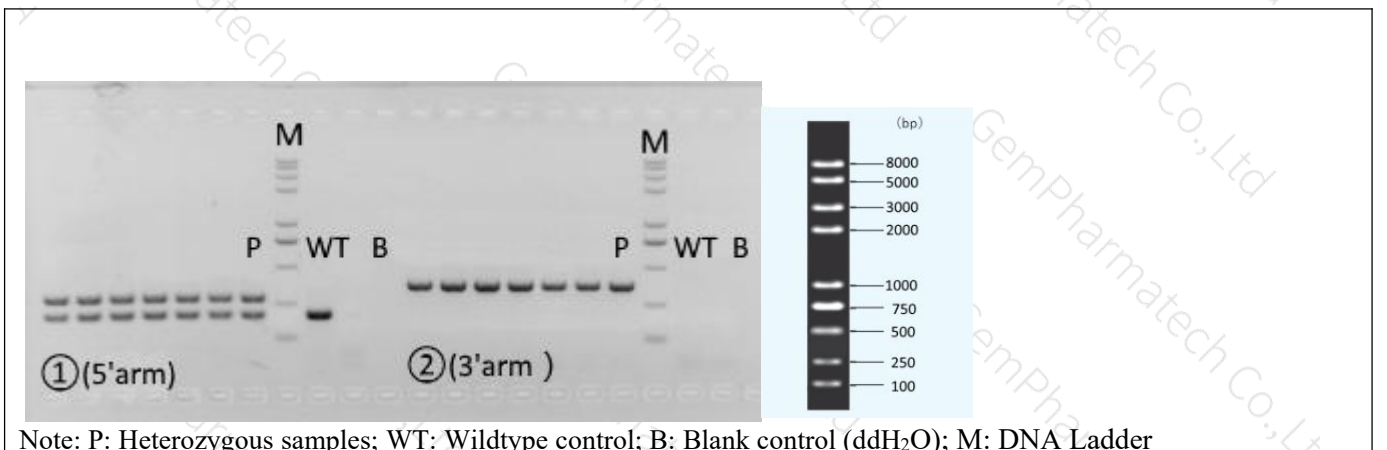
1. Strategy of Genotyping



2. Primer Information

| PCR No. | Primer No. | Sequence | Band Size |
|----------|------------|--------------------------|----------------------------|
| ①(5'arm) | T051876-F1 | CACAGATACCTTCCTCTCTCCAAG | WT:198bp Targeted:300bp |
| | T051876-R1 | CACTTGTGAACAGCCTGACTCAC | |
| ②(3'arm) | T051876-F2 | CATCGCATTGTCTGAGTAGGTG | WT:0bp Targeted:388bp |
| | T051876-R2 | TCTGTGCTTGACTGTGGTTTCC | |

3. Gel Image & Conclusion



- ① Control (WT) : It is an important reference mark for whether the PCR reaction is successful and whether the product band position and size meet the theoretical requirements.
- ② Control (B) : PCR amplification was performed without template in the PCR reagent to monitor whether the reagent was contaminated.

4. PCR Condition

(Generally recommend to use Vazyme P222; If the sequences contain special structures such as GC% \geq 60% or GC% \leq 40%, recommend to use Vazyme P515.)

| PCR Reaction Component | | | |
|----------------------------------|--|------|-------------------|
| Seg. | reaction component | | Volume (μ l) |
| 1 | 2 \times Rapid Taq Master Mix(Vazyme P222) or 2 \times Phanta Max Master Mix (Vazyme P515) | | 12.5 |
| 2 | ddH ₂ O | | 9.5 |
| 3 | Primer A(10pmol/ μ l) | | 1 |
| 4 | Primer B(10pmol/ μ l) | | 1 |
| 5 | Template(20~80ng/ μ l) | | 1 |
| PCR program I priority selection | | | |
| Seg. | Temp. | Time | Cycle |
| 1 | 95°C | 5min | 20 \times |
| 2 | 98°C | 30s | |
| 3 | 65°C* (-0.5°C/cycle) | 30s | |
| 4 | 72°C | 45s* | |
| 5 | 98°C | 30s | 15 \times |
| 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 | 35 \times |
| 2 | 98°C | 30s | |
| 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.