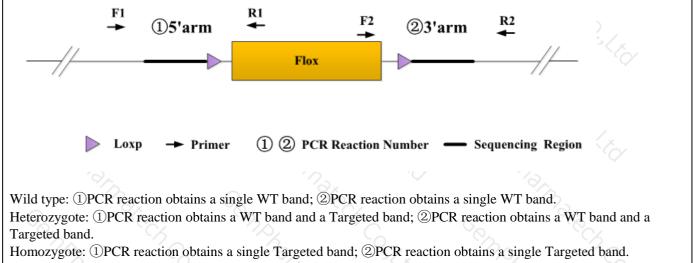


| | | Genotyp | ing Report | | · · < * |
|---------------|------------|-------------|--|--------------------|-------------|
| Strain ID | T005478 | Strain Type | CKO(Cas9) | Genetic Background | C57BL/6JGpt |
| Designer | Ya'nan Xu | Gene Name | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Mapk12 | Co l |
| Strategy of (| Genotyping | 24 | | armar. | ~< x |

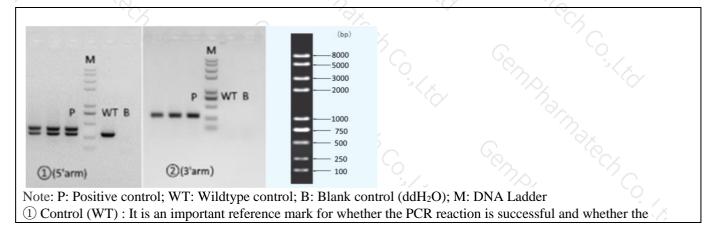


Note: The sizes of WT and Targeted band are shown below.

2. Primer Information

| PCR No. | Primer No. | Sequence | Band Size | |
|------------|---------------------------------------|---------------------------|------------------|--|
| (1)(5'arm) | T005478-F1 | CTCAATGGAGCAAAGCCAAAG | WT:316bp | |
| | T005478-R1 | TGAGGGAGTTGGACAACAGATAGAC | Targeted:373bp | |
| 2)(3'arm) | T005478-F2 | TAGCATCCTCATGTCCAGACCAC | WT:291bp | |
| | T005478-R2 TAGGCAAACTGAGAGAGTTCTCTGAG | | - Targeted:348bp | |

3. Gel Image & Conclusion





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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

| PCR Reaction | Component | | M. M | | |
|-------------------|---------------------------------|--|-----------------------|--|--|
| Seg. | reaction co | reaction component | | | |
| 1^{γ} | 2 × Rapid Taq Master Mix (Vazym | 2 × Rapid Taq Master Mix (Vazyme P222) | | | |
| 2 73 | ddH2O | | 9.5 | | |
| 3 | Primer A(10pmol/µl) | . 3/x | 1 | | |
| 1 | Primer B(10pmol/μl) | Primer B(10pmol/µl) | | | |
| 5 | Template(≈100ng/µl) | | | | |
| PCR program | ① priority selection | í Constantino de Cons | | | |
| Seg. | Temp. | Time | Cycle | | |
| 1 | 95℃ | 5min | CULE . | | |
| 2 6 | 98°C | 30s | 20× | | |
| 3 ^N S, | 65℃*(-0.5℃/cycle) | 30s | | | |
| 4 7 | 72°C | 45s* | | | |
| 5 | 98°C | 30s | 20× | | |
| 5 6 | 55℃* | 30s | | | |
| | 72°C | 45s* | | | |
| 3 | 72°C | 5min | Dr. Slx | | |
| Ð | 10 ℃ | hold | () ₂ , (9 | | |
| PCR program | ② the second choice | Tax Con | 2 ² C/ | | |
| Seg. | Temp. | Time | Cycle | | |
| 1 97 | 95℃ | 5min | AND - CA | | |
| 2 | 98°C | 30s | 35× | | |
| 3 | 58℃* | 58℃* 30s | | | |
| 4 | 72°C | 45s* | | | |
| 5 7/ | 72℃ | 5min | | | |
| 6 | 10°C | hold | ngr. | | |

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