

| | | - Co - Kr | Genotyp | ing Report | | |
|---------------|------|--------------|-------------|------------|---------------------|---------------|
| Strain ID | 1 C | T039815 | Strain Type | CKO(Cas9) | Genetic Background | l C57BL/6JGpt |
| Designer | Ŋ | a'nan Xu | Gene Name | | Rnf44 | 20 |
| . Strategy of | Geno | typing | noh-a | | (armar | " |
| | F1 | 1)5'arm | R1 ◀ | F2 ②3 | 'arm <mark>₹</mark> | |
| 11 | | | Flox | | 11 | |

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.

Primer

1 2 PCR Reaction Number - Sequencing Region

2. Primer Information

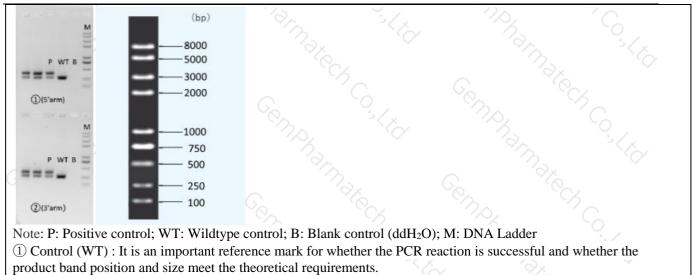
Loxp

| PCR No. | Primer No. | Sequence | Band Size | |
|------------|------------------------------------------------------------------------|---------------------------|----------------|--|
| (1)(5'arm) | T039815-F1AGCCGGTCAGTAACAGCAGTGAATCT039815-R1CTCAGCCAACAAACCTATGGTCATC | | WT: 266bp | |
| | | | Targeted:370bp | |
| (2)(3'arm) | T039815-F2 | AGAAGTGAGGAAGTCCACTAGGCAG | WT: 286bp | |
| | T039815-R2 | ATTACAGGCATTCGACACCACTGC | Targeted:392bp | |

3. Gel Image & Conclusion



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⁽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 | | | |
|-----------------|----------------------------------|----------------------------------------|---------|--|
| Seg. | reaction co | reaction component | | |
| 1 7 | 2 × Rapid Taq Master Mix (Vazyme | 2 × Rapid Taq Master Mix (Vazyme P222) | | |
| 2 | ddH2O | | 9.5 | |
| G | Primer A(10pmol/µl) | °Y | 1 | |
| - C >>~ | Primer B(10pmol/µl) | Co Co | 1 3 | |
| ; 7. | Template(≈100ng/μl) | | | |
| PCR program | ① priority selection | | The sta | |
| Seg. | Temp. | Time | Cycle | |
| 1 $n_{s_{i}}$ | 95°C | 5min | | |
| 2 97 | 98°C | 30s | 20× | |
| ; | 65℃*(-0.5℃/cycle) | 30s | | |
| Ļ | 72°C | 45s* | °C X | |
| G | 98°C | 30s | 20× 6 | |
| i N | 55°C* | 30s | | |
| , | 72°C | 45s* | | |
| 3 | 72 °C | 5min | and - | |
| | 10° C | hold | | |
| PCR program | ② the second choice | | ns. no | |
| Seg. | Temp. | Time | Cycle | |



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| 1 | i Pha | 95°C | arp. | 5min | 100 | í S |
|-----|-------|--------|----------------------------|------|------|-----|
| 2 | n n | 98°C | | 30s | | 35× |
| з (| | 58℃* | ~~ | 30s | G | |
| 4 | ns, | 72℃ | C _R | 45s* | Cho. | A C |
| 5 | ng pr | 72℃ ·< | $\gamma_{\mathcal{O}_{L}}$ | 5min | | |
| 6 | ng x | 10°C | 200 | hold | | |

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