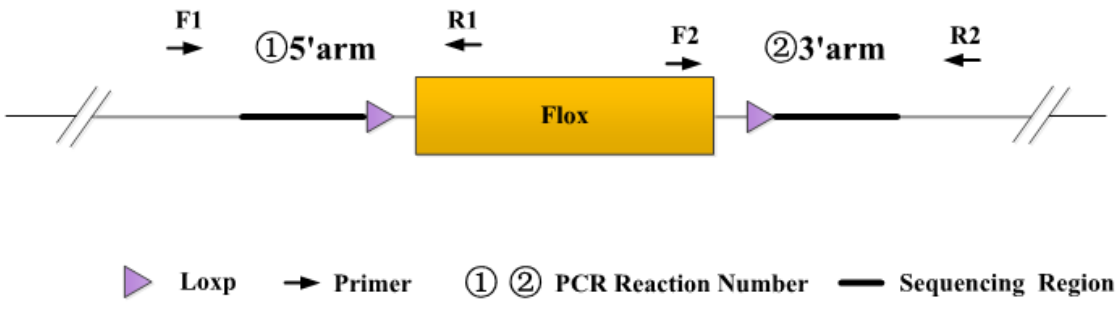


## Genotyping Report

|           |           |             |               |                    |          |
|-----------|-----------|-------------|---------------|--------------------|----------|
| Strain ID | T009860   | Strain Type | CKO(Cas9)     | Genetic Background | C57BL/6J |
| Designer  | Ying Chen | Gene Name   | <i>Crebbp</i> |                    |          |

### 1. Strategy of Genotyping

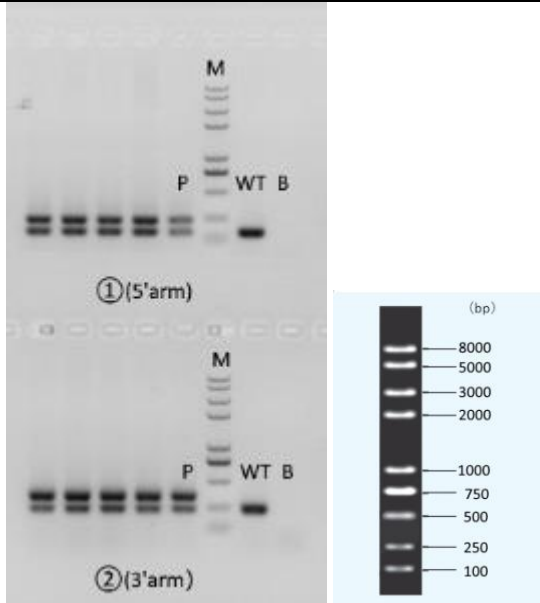


Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.  
 Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a WT band and a Targeted band.  
 Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single 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         | GPS00001249-Crebbp-5wt-tF1 | GGTTGCCCAAGGGAATTGC      | WT:147bp<br>Targeted:245bp |
|          | R1         | GPS00001249-Crebbp-5wt-tR1 | GGAAAATGAAGAGTGCAGTGACTC |                            |
| ②(3'arm) | F2         | GPS00001249-Crebbp-3wt-tF1 | AGCTGCTGAGGTGCATCCTCCT   | WT:226bp<br>Targeted:322bp |
|          | R2         | GPS00001249-Crebbp-3wt-tR1 | CTCGCAGATGATGCTGGTATTGC  |                            |

### 3. Gel Image & Conclusion



Note: P: Positive control; WT: Wildtype control; B: Blank control (ddH<sub>2</sub>O); M: DNA Ladder

#### 4. PCR Condition

| PCR Reaction Component |   |             |       |
|------------------------|---|-------------|-------|
| Seg.                   | reaction component                              | Volume (μl) |       |
| 1                      | 2 × Taq Master Mix , Dye Plus, (Vazyme P112-03) | 12.5        |       |
| 2                      | ddH <sub>2</sub> O                              | 9.5         |       |
| 3                      | Primer A(10pmol/μl)                             | 1           |       |
| 4                      | Primer B(10pmol/μl)                             | 1           |       |
| 5                      | Template(≈100ng/μl)                             | 1           |       |
| PCR program            |   |             |       |
| 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         |       |
| 5                      | 98°C  | 30s         |       |
| 6                      | 55°C  | 30s         | 20×   |
| 7                      | 72°C  | 45s         |       |
| 8                      | 72°C  | 5min        |       |
| 9                      | 10°C  | hold        |       |

Reviewer:Ting Sun

Date:2020-4-20