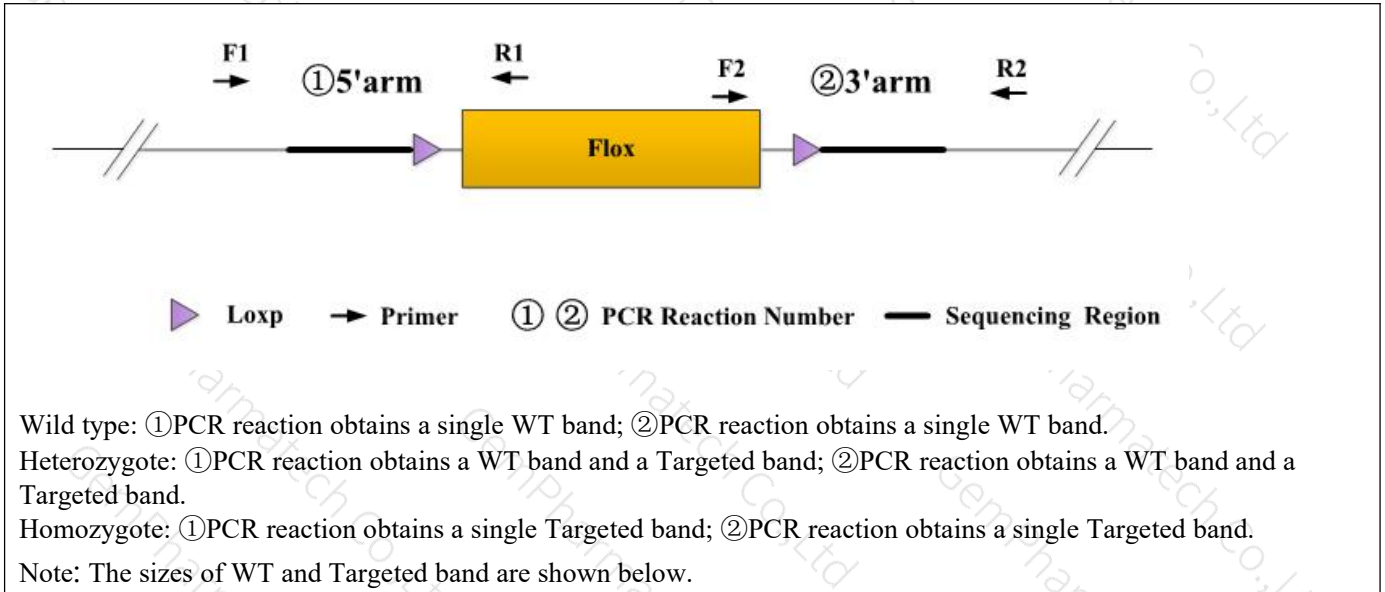


Genotyping Report

| | | | | | |
|-----------|-----------|-------------|---------------|--------------------|-------------|
| Strain ID | T005051 | Strain Type | CKO(Cas9) | Genetic Background | C57BL/6JGpt |
| Designer | Ya'nan Xu | Gene Name | <i>Ube2e1</i> | | |

1. Strategy of Genotyping



2. Primer Information

| PCR No. | Primer No. | Sequence | Band Size |
|----------|------------|---------------------------|----------------------------|
| ①(5'arm) | T005051-F1 | GAAC TTTAAAGGCCTTAGCTCTC | WT:320bp Targeted:377bp |
| | T005051-R1 | CGTTTACTGAGAACAGAATGGG | |
| ②(3'arm) | T005051-F2 | GCTCAGCTTCCTTCTGTGTATTG | WT:339bp Targeted:393bp |
| | T005051-R2 | AGTCTGGTACCATATATCCCAAAGT | |

3. Gel Image & Conclusion



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 ₂ 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:2021-6-9