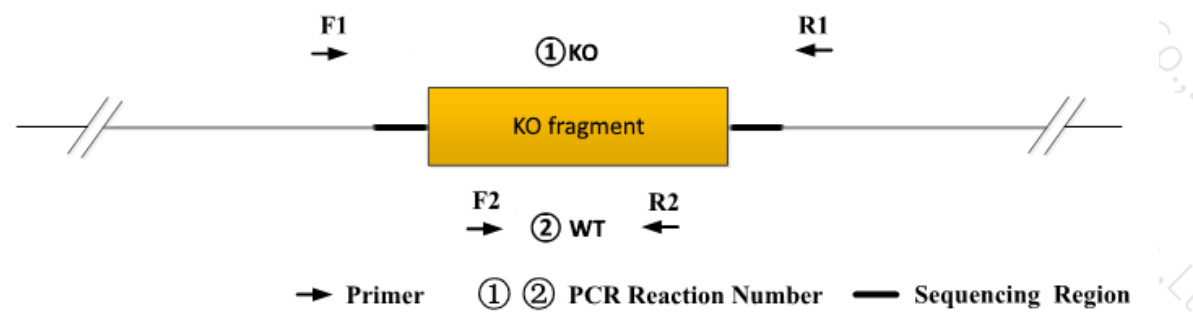


Genotyping Report

| | | | | | |
|-----------|-----------|-------------|-----------------|--------------------|-------------|
| Strain ID | T014017 | Strain Type | KO(Cas9) | Genetic Background | C57BL/6JGpt |
| Designer | Zifan Lin | Gene Name | <i>Uhrf1bp1</i> | | |

1. Strategy of Genotyping

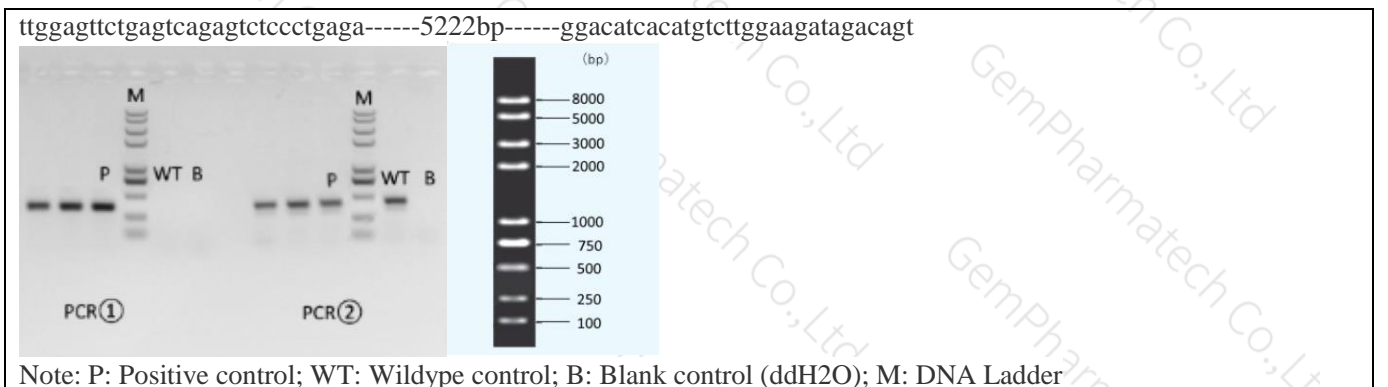


Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.
Heterozygote: ①PCR reaction obtains a WT band and a KO band; ②PCR reaction obtains a WT band.
Homozygote: ①PCR reaction obtains a single KO band; ② PCR reaction without product.
Note: 1)The sizes of WT and Targeted band are shown below.
2)If the WT band is too large, it may not be possible to obtain a WT band.

2. Primer Information

| PCR No. | Primer No. | Sequence | Band Size |
|---------|------------|--------------------------|-----------------------|
| PCR① | T014017-F1 | TGGTGTGTGGGTTTCGCCTTATG | WT:5563bp KO:341bp |
| | T014017-R1 | GTCTAATGACTGTGTCCTCAGGCC | |
| PCR② | T014017-F2 | AGAAGGTGGTGGAGGGAATGTTC | WT:391bp KO:0bp |
| | T014017-R2 | AGCCTCAATCTGTGGCTCAGGAG | |

3. Gel Image





4. PCR Condition

| PCR Reaction Component | | | |
|------------------------|--|-------------|-------|
| Seg. | reaction component | Volume (μl) | |
| 1 | 2 × Taq Master Mix , Dye Plus , (Vazyme P112-03) | 12.5 | |
| 2 | ddH2O | 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℃ | 5min | |
| 2 | 98℃ | 30s | 20× |
| 3 | 65℃ (-0.5℃/cycle) | 30s | |
| 4 | 72℃ | 45s | |
| 5 | 98℃ | 30s | |
| 6 | 55℃ | 30s | 20× |
| 7 | 72℃ | 45s | |
| 8 | 72℃ | 5min | |
| 9 | 10℃ | hold | |

Reviewer:Ting Sun

Date:2021-7-8