

RBRC 05711

Strain name STOCK Tg(tetO-OPN4,mCherry)M5

| Primer | primer_name | primer_seq | length | |
|--------|-----------------|---------------------------|--------|-------------------------|
| 1 | tetOup | AGCAGAGCTCGTTTAGTGAACCGT | 24 | Depositor's primer |
| 2 | RFP D1 (20 mer) | CTTGCCATGTAGGTGGTCT | 20 | Depositor's primer |
| 3 | oIMR0042 | CTAGGCCACAGAATTGAAAGATCT | 24 | JAX Genotyping Protocol |
| 4 | oIMR0043 | GTAGGTGGAAATTCTAGCATCATCC | 25 | JAX Genotyping Protocol |
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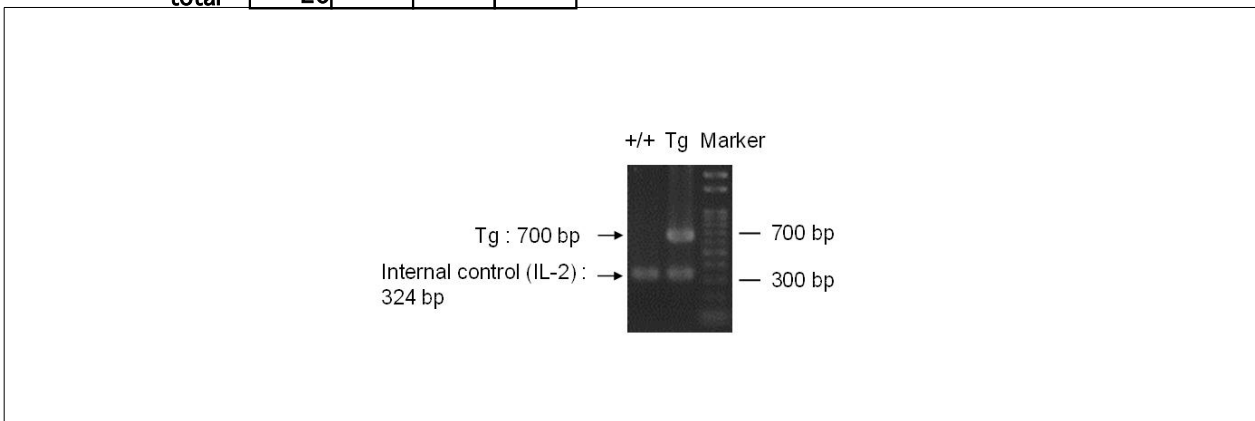
Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

Reaction Conditions

| | Conc | Run 1 | Run 2 | Run 3 | Run 4 |
|--------------|------------------|-----------|-------|-------|-------|
| H2O | | 11.3 | | | |
| PCR buffer | 10 X | 2.0 | | | |
| dNTP | 2.5 mM | 1.6 | | | |
| primer 1 | 10 pmol/ μ l | 1.0 | | | |
| primer 2 | 10 pmol/ μ l | 1.0 | | | |
| primer 3 | 10 pmol/ μ l | 1.0 | | | |
| primer 4 | 10 pmol/ μ l | 1.0 | | | |
| DNA | | 1.0 | | | |
| Taq | 5 U/ μ l | 0.1 | | | |
| | | | | | |
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| | | | | | |
| total | | 20 | | | |

| step | temp (°C) | time (sec) | note |
|------|-----------|------------|-----------------------|
| 1 | 94 | 180 | |
| 2 | 94 | 30* | |
| 3 | 60 | 30* | |
| 4 | 72 | 60* | *Repeat for 30 cycles |
| 5 | 72 | 300 | |
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Marker

Gene Ladder 100 (Wako, Cat. 316-06951)

Gel

2% agarose in 1 X TAE (100 V, 30 min)

PCR products

| | primer_set | product_size | product |
|----------|------------|--------------|-------------------------|
| primer 1 | primer 2 | 700 bp | Tg |
| primer 3 | primer 4 | 324 bp | Internal control (IL-2) |
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Comment