

RBRC 11928

Strain name C57BL/6N.FVB-Tg(Thy1-GCaMP6-actin/mCherry)1ShiSatm

| Primer | primer_name | primer_seq | length | Reference |
|--------|-------------|---------------------------|--------|-------------------------|
| 1 | | GCTGGAATCAAAGGTGTGAGCTC | 23 | RIKEN BRC |
| 2 | | GACGTAGCAGAAGGACGTCCCG | 22 | RIKEN BRC |
| 3 | oIMR0042 | CTAGGCCACAGAATTGAAAGATCT | 24 | JAX Genotyping Protocol |
| 4 | oIMR0043 | GTAGGTGGAAATTCTAGCATCATCC | 25 | JAX Genotyping Protocol |
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Reaction Components

Enzyme TOYOBO KOD FX (Code.No : KFX-101)

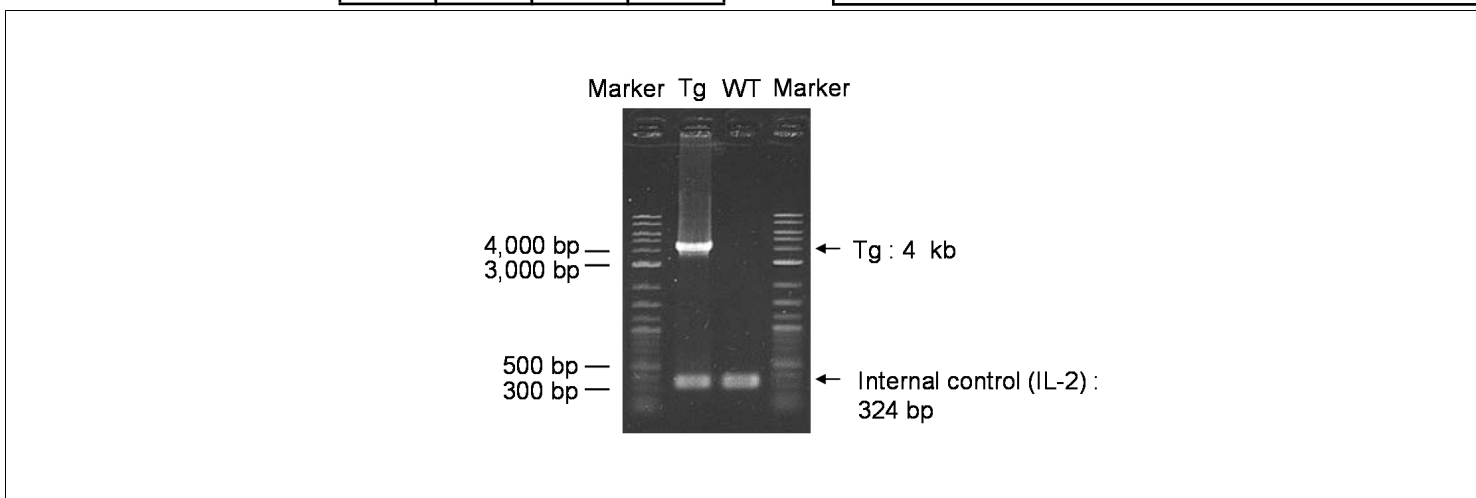
Reaction Conditions

| step | temp (°C) | time (sec) | note |
|------|-----------|------------|-----------------------|
| 1 | 94 | 120 | |
| 2 | 98 | 10* | |
| 3 | 63 | 30* | |
| 4 | 68 | 300* | *Repeat for 30 cycles |
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| Reagent | Conc | Reaction 1 | 2 | 3 | 4 | (μL) |
|--------------|------------|------------|---|---|---|------|
| H2O | | 0.8 | | | | |
| PCR buffer | 2 X | 10.0 | | | | |
| dNTP | 2.0 mM | 4.0 | | | | |
| primer 1 | 10 pmol/μl | 1.0 | | | | |
| primer 2 | 10 pmol/μl | 1.0 | | | | |
| primer 3 | 10 pmol/μl | 1.0 | | | | |
| primer 4 | 10 pmol/μl | 1.0 | | | | |
| DNA | | 1.0 | | | | |
| Taq | 1 U/μl | 0.2 | | | | |
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| | | | | | | |
| total | | 20 | | | | |

Marker 2-Log DNA Ladder (NEB, Cat. N3200)

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



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