

PCR protocol

RBRC 02701

Strain name B6.Cg-Tg(CAG-Slc11a2)E

| Primer | primer_name | primer_seq | length | | |
|--------|-------------|---------------------------|--------|-------------------------|-------------------------|
| 1 | rDMT1-R | CCCCTGACAAAACCAGTCAT | 20 | | Depositor's primer |
| 2 | rDMT1-F | TGCTTGGTGGCCTAAAACCTC | 20 | | Depositor's primer |
| 3 | oIMR0042 | CTAGGCCACAGAATTGAAAGATCT | 24 | Internal control (IL-2) | JAX Genotyping Protocol |
| 4 | oIMR0043 | GTAGGTGGAAATTCTAGCATCATCC | 25 | Internal control (IL-2) | JAX Genotyping Protocol |
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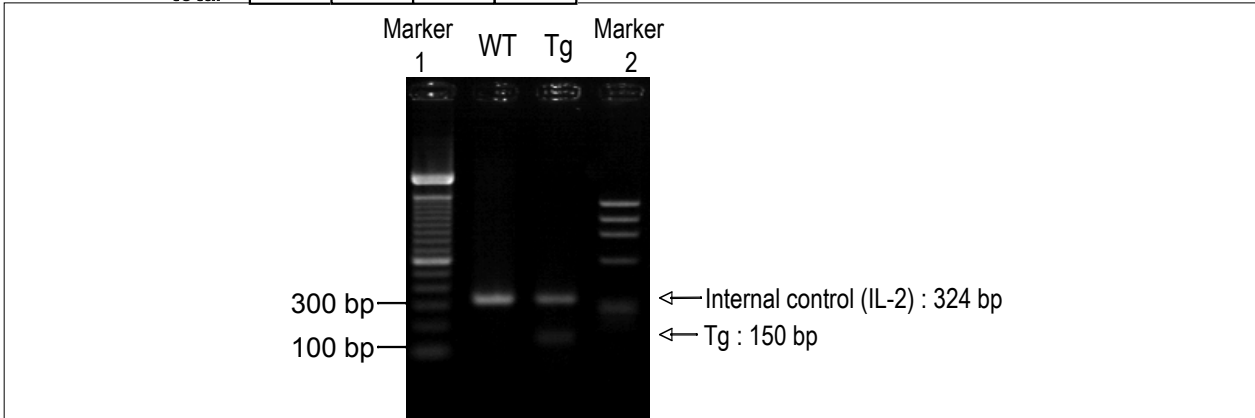
Reaction Components

Enzyme

Reaction Conditions

| step | temp (°C) | time (sec) | note |
|------|-----------|------------|-----------------------|
| 1 | 94 | 180 | |
| 2 | 94 | 30* | |
| 3 | 60 | 30* | |
| 4 | 72 | 30* | *Repeat for 35 cycles |
| 5 | 72 | 300 | |
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| | Conc | Run 1 | Run 2 | Run 3 | Run 4 |
|--------------|------------------|-----------|-------|-------|-------|
| H2O | | 15.3 | | | |
| PCR buffer | 10 X | 2.5 | | | |
| dNTP | 2.5 mM | 2.0 | | | |
| 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 | | 0.2 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| total | | 25 | | | |



Marker
marker 1: 100 bp ladder (Invitrogen, Cat. 15628-050), marker 2: ϕ X174 Hae III

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

PCR products

| primer_set | product_size | product |
|-------------------|--------------|-------------------------|
| primer 1 primer 2 | 150 bp | Tg |
| primer 3 primer 4 | 324 bp | Internal control (IL-2) |
| | | |
| | | |
| | | |

Comment