# PCR protocol

**RBRC** 01456 **Strain name** B6.B6D2-Tg(Neurog3-cre)24Syos

**Primer**

| | primer_name | primer_seq | length | | |
|---|---|---|---|---|---|
| 1 | ngn3 | GATGGCGCCTCATCCCTTGGATG | 23 | | RIKEN BRC |
| 2 | Cre | CTAATCGCCATCTTCCAGCAGG | 22 | | Depositor's primer |
| 3 | **olMR**0042 | CTAGGCCACAGAATTGAAAGATCT | 24 | | JAX Genotyping Protocol |
| 4 | **olMR**0043 | GTAGGTGGAAATTCTAGCATCATCC | 25 | | JAX Genotyping Protocol |
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**Reaction Components**

**Enzyme** TaKaRa Ex Taq (Cat. No. RR001A)

| | 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/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 | | 0.1 | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| | | | | | |
| | total | 20 | | | |

**Reaction Conditions**

| step | temp (℃) | 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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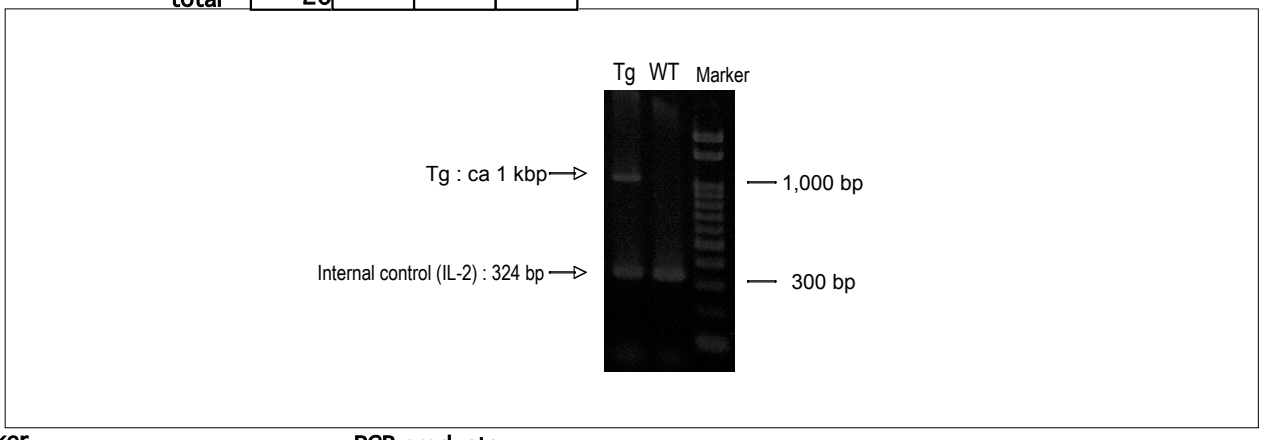


**Marker**

100 bp ladder (Invitrogen, Cat. 15628-050)

**Gel**

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

**PCR products**

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

**Comment**