# PCR protocol

Sheet ID PS_05356
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**RBRC** 05901 **Strain name** C57BL/6-Tg(CMV-EGFP/Pkd2l1*del)P

| Primer | primer_name | primer_seq | length | | Reference |
|---|---|---|---|---|---|
| 1 | | GTCATTAGTTCATAGCCCATATATG | 25 | | RIKEN BRC |
| 2 | Screen2as | GTCCCAGAATGTTGCCATCT | 20 | | Depositor's primer |
| 3 | oIMR0042 | CTAGGCCACAGAATTGAAAGATCT | 24 | | JAX Genotyping Protocol |
| 4 | oIMR0043 | GTAGGTGGAAATTCTAGCATCATCC | 25 | | JAX Genotyping Protocol |

## Reaction Components

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

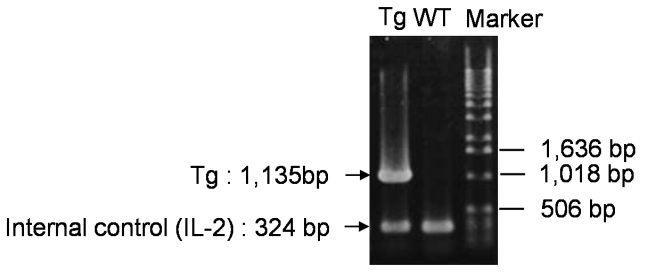
| Reagent | Conc | Reaction 1 | 2 | 3 | 4 | |
|---|---|---|---|---|---|---|
| H2O | | 11.3 | | | | (μL) |
| PCR buffer | 10 X | 2.0 | | | | |
| dNTP | 2.5 mM | 1.6 | | | | |
| primer 1 | 10 pmol/μl | 1.0 | | | | |
| primer 2 | 10 pmol/μl | 1.0 | | | | |
| primer 3 | 10 pmol/μl | 1.0 | | | | |
| primer 4 | 10 pmol/μl | 1.0 | | | | |
| DNA | | 1.0 | | | | |
| Taq | 5 U/μl | 0.1 | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | total | 20 | | | | |

## Reaction Conditions

| step | temp (℃) | time (sec) | note |
|---|---|---|---|
| 1 | 94 | 180 | |
| 2 | 94 | 30 | * |
| 3 | 55 | 30 | * |
| 4 | 72 | 90 | * *Repeat for 30 cycles |
| 5 | 72 | 300 | |

**Marker** 1 kb DNA ladder (Invitrogen, Cat. 15615-024)

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




| primer_set | | product_size | product (allele type) |
|---|---|---|---|
| primer 1 | primer 2 | 1,135 bp | Tg |
| primer 3 | primer 4 | 324 bp | Internal control (IL-2) |
| | | | |
| | | | |
| | | | |
| | | | |

**Comment** Standard PCR