

RBRC 02718

Strain name C57BL/6J-Tg(CAG-P1ce1,-lacZ)ETkat

| Primer | primer_name | primer_seq                | length |                         |
|--------|-------------|---------------------------|--------|-------------------------|
| 1      | CAGp-F/CA1  | CTGCTAACCATGTTTCATGCC     | 20     | Depositor's primer      |
| 2      | me 2008 R   | CTGAGGCCAGCCAGGAACTC      | 20     | Depositor's primer      |
| 3      | oIMR0042    | CTAGGCCACAGAATTGAAAGATCT  | 24     | JAX Genotyping Protocol |
| 4      | oIMR0043    | GTAGGTGGAAATTCTAGCATCATCC | 25     | JAX Genotyping Protocol |
|        |             |                           |        |                         |
|        |             |                           |        |                         |
|        |             |                           |        |                         |
|        |             |                           |        |                         |
|        |             |                           |        |                         |

### Reaction Components

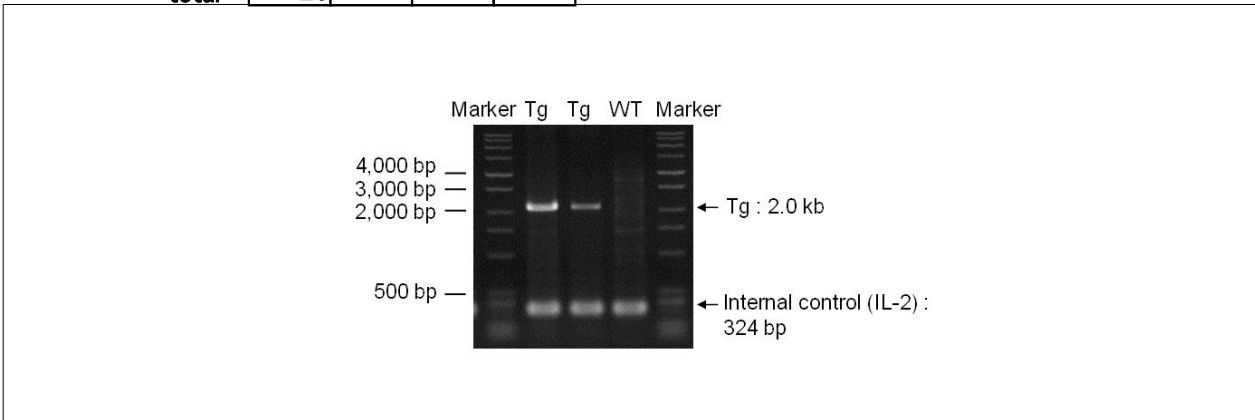
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

### Reaction Conditions

|              | Conc             | Run 1     | Run 2 | Run 3 | Run 4 |
|--------------|------------------|-----------|-------|-------|-------|
| H2O          |                  | 0.8       |       |       |       |
| PCR buffer   | 2 X              | 10.0      |       |       |       |
| dNTP         | 2.0 mM           | 4.0       |       |       |       |
| primer 1     | 10 pmol/ $\mu$ l | 1.0       |       |       |       |
| primer 2     | 10 pmol/ $\mu$ l | 1.0       |       |       |       |
| primer 3     | 10 pmol/ $\mu$ l | 1.0       |       |       |       |
| primer 4     | 10 pmol/ $\mu$ l | 1.0       |       |       |       |
| DNA          |                  | 1.0       |       |       |       |
| Taq          | 1 U/ $\mu$ l     | 0.2       |       |       |       |
|              |                  |           |       |       |       |
|              |                  |           |       |       |       |
|              |                  |           |       |       |       |
|              |                  |           |       |       |       |
|              |                  |           |       |       |       |
| <b>total</b> |                  | <b>20</b> |       |       |       |

| step | temp (°C) | time (sec) | note                  |
|------|-----------|------------|-----------------------|
| 1    | 94        | 120        |                       |
| 2    | 98        | 10*        |                       |
| 3    | 60        | 30*        |                       |
| 4    | 68        | 300*       | *Repeat for 30 cycles |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |

### Standard PCR



**Marker**  
DNA Ladder, 1 kb Plus (Affymetrix, Cat. 76714 500 UL)

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

| PCR products |            |              |         |                         |
|--------------|------------|--------------|---------|-------------------------|
|              | primer_set | product_size | product |                         |
|              | primer 1   | primer 2     | 2.0 kb  | Tg                      |
|              | primer 3   | primer 4     | 324 bp  | Internal control (IL-2) |
|              |            |              |         |                         |
|              |            |              |         |                         |
|              |            |              |         |                         |

Comment