

RBRC 10299

Strain name C57BL6/J-Tg(Tmem240<\*>Y163\*)908Kmik

| Primer | primer_name | primer_seq                | length | Reference                         |
|--------|-------------|---------------------------|--------|-----------------------------------|
| 1      | primer 1    | ACTCATCTCAGAAGAGGATCTG    | 22     | Nat Genet., 40(8):1016-22 (2008). |
| 2      | exon 16     | CAGTACACTGGTGAGACATGTCTAC | 25     | RIKEN BRC                         |
| 3      | oIMR0042    | CTAGGCCACAGAATTGAAAGATCT  | 24     | JAX Genotyping Protocol           |
| 4      | oIMR0043    | GTAGGTGGAAATTCTAGCATCATCC | 25     | JAX Genotyping Protocol           |
|        |             |                           |        |                                   |
|        |             |                           |        |                                   |
|        |             |                           |        |                                   |
|        |             |                           |        |                                   |
|        |             |                           |        |                                   |
|        |             |                           |        |                                   |
|        |             |                           |        |                                   |

## Reaction Components

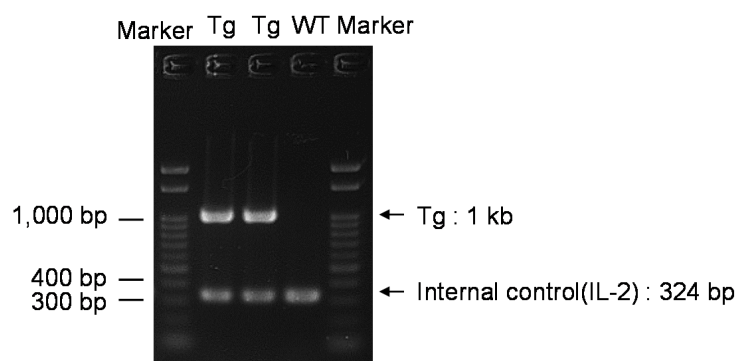
|        |                                   |
|--------|-----------------------------------|
| Enzyme | TOYOBO KOD FX (Code.No : KFX-101) |
|--------|-----------------------------------|

## Reaction Conditions

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

| Reagent    | Conc       | Reaction 1 | 2 | 3 | 4 |
|------------|------------|------------|---|---|---|
| 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        |   |   |   |
|            |            |            |   |   |   |
|            |            |            |   |   |   |
|            |            |            |   |   |   |
|            |            |            |   |   |   |
|            |            |            |   |   |   |
| total      |            | 20         |   |   |   |

|        |                                        |
|--------|----------------------------------------|
| Marker | Gene Ladder 100 (Wako, Cat. 316-06951) |
| Gel    | 2% agarose in 1 X TAE (100 V, 30 min)  |



| primer_set | product_size | product (allele type) |
|------------|--------------|-----------------------|
| primer 1   | primer 2     | 1 kb                  |
| primer 3   | primer 4     | 324 bp                |
|            |              |                       |
|            |              |                       |
|            |              |                       |
|            |              |                       |

Non-Tg : 324 bp  
Tg : 324 bp, 1 kb

Comment [Standard PCR](#)

Novagen KOD Xtreme™ Hot Start DNA Polymerase can be purchased from EMD.