

Tg(rag2:GFP)zdf8

Transgene description

The *Tg(rag2:GFP)zdf8* transgene contains the GFP cDNA under control of the 6.5-kb *rag2* promoter (Jessen et al., Genesis 29:156-162, 2001).

Genotyping assay

To genotype the *Tg(rag2:GFP)zdf8* line, the transgene-specific primers (**GFM2_03** and **GFM2_04**) are used.

Primers:

GFM2_03: 5' GAA CTT TTC ACT GGA GTT GTC CC 3'

GFM2_04: 5' CAC CTT CAA ACT TGA CTT CAG CAC 3'

PCR program (55_30_30):

- 1_94°C for 3 min
- 2_94°C for 30 s
- 3_55°C for 30 s
- 4_72°C for 30 s
- 5_Go to step 2 (above) for 34 cycles
- 6_72°C for 5 min
- 7_8.0°C hold
- 8_END

Product size: 334 bp

The 334-bp product is specific for the genomic DNA containing the *Tg(rag2:GFP)zdf8* transgene. No PCR product is generated for wild-type genomic DNA.

IMPORTANT NOTE: It is possible that multiple copies of the transgene might have integrated into the genome during transgenesis and that some of these integrations are non-functional. Samples that contain only a non-functional transgene or its fragment will be identified falsely as positive in the genotyping assay. For this reason, it is recommended to use functional assays to verify individuals identified as positive in the genotyping assay.