Tg(UAS:GFP)kca33

Transgene description

The *Tg(UAS:GFP)kca33* transgene contains the GFP cDNA under control of the UAS promoter (Scheer and Campos-Ortega, Mechanisms of Development 80:153-158, 1999).

Genotyping assay

To genotype the *Tg(UAS:GFP)kca33* line, the transgene-specific primers (**GFP007** and **GFP008**) are used.

Primers:
GFP007: 5' CGT GCT GAA GTC AAG TTT GAA GGT G 3'
GFP008: 5' CAT GTG GTC TCT CTT TTC GTT GGG 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: 330 bp
The 330-bp product is specific for the genomic DNA containing the *Tg(UAS:GFP)kca33* 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.

Zebrafish International Resource Center (ZIRC)
5274 University of Oregon
Eugene, OR 97403-5274, USA
Phone: 541-346-6028
Email: genotyping@zebrafish.org
Web: http://zebrafish.org