Tg(fli1a:nEGFP)y7

Transgene description

The *Tg(fli1a:nEGFP)y7* transgene contains the EGFP cDNA fused to a nuclear localization sequence to direct the reporter protein to nuclei. The expression of the reporter gene is under control of the zebrafish 7-kb *fli1a* promoter (Roman et al., Development 129:3009-3019, 2002).

Genotyping assay

To genotype the *Tg(fli1a:nEGFP)y7* line, the transgene-specific primers (**EGFP6** and **EGFP8**) are used.

Primers:
EGFP6: 5' TTC TTC AAG TCC GCC ATG CCC G 3'
EGFP8: 5' GCA CGC TGC CGT CCT CGA TGT T 3'

PCR program (62_40_40):

1_94°C for 3 min
2_94°C for 30 s
3_**62**°C for **40** s
4_72°C for **40** 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: 283 bp
The 283-bp product is specific for the genomic DNA containing the *Tg(fli1a:nEGFP)y7* 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.

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