

Tg(T2kSAG:GFP)j1042a

Transgene description

The *Tg(T2kSAG:GFP)j1042a* transgene is a gene trap construct that contains a splice acceptor (SA), the GFP gene with the ATG codon and the SV40 polyA signal (polyA) (Kotani et al., Methods 39: 199-206, 2006).

Genotyping assay

The reverse primer (**j1042_1r**) anneals to the 3'-portion of the transgene, and the forward primer (**j1042_1f**) anneals to the adjacent genomic region flanking the transgene.

Primers:

j1042_1f: 5' CGA CGA ATA CAT CAA GCT AAT GTG 3'

j1042_1r: 5' GGG AAA ATA GAA TGA AGT GAT CTC C 3'

PCR program (53_30_30):

- 1_94°C for 3 min
- 2_94°C for 30 s
- 3_53°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: 310 bp

The 310 bp product is specific for the *Tg(T2kSAG:GFP)j1042a* mutant genomic DNA. No PCR product is generated for wild-type genomic DNA.