

## *b4galt7*<sup>hi4063aTg</sup>

### Nature of the mutation

*hi4063aTg* constitutes a retrovirus-induced mutation:

- Amsterdam *et al.* Genes Dev. 13(20):2713-2724 (1999)
- Golling *et al.* Nat. Genet. 31(2):135-140 (2002)
- Amsterdam *et al.* Proc. Natl. Acad. Sci. USA 101(35):12792-12797 (2004)

### Genotyping assay

The forward primer (**Hi4036A\_3E04**) anneals to the 3'-portion of the retrovirus that causes the mutation, and the reverse primer (**Hi4036A\_3E03**) anneals to the adjacent genomic region flanking the virus.

#### Primers:

**Hi4036A\_3E03:** 5' AAC CGC TTT TGG GGA TGG 3'

**Hi4036A\_3E04:** 5' CGC TTC TCG CTT CTG TTC G 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: 290 bp

The 290 bp product is specific for the *hi4063aTg* mutant genomic DNA. No PCR product is generated for wild-type genomic DNA.