

***sars*<sup>hi3817Tg</sup>****Nature of the mutation**

*hi3817Tg* 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 (**Hi3817\_3E04**) anneals to the 3'-portion of the retrovirus that causes the mutation, and the reverse primer (**Hi3817\_3E03**) anneals to the adjacent genomic region flanking the virus.

**Primers:**

**Hi3817\_3E03:** 5' GAA AAT GTG AGT GAA GGC TAA CG 3'

**Hi3817\_3E04:** 5' CAA GGA CCT GAA ATG ACC CTG 3'

**PCR program (60\_40\_40):**

- 1\_94°C for 3 min
- 2\_94°C for 30 s
- 3\_60°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: 337 bp**

The 337 bp product is specific for the *hi3817Tg* mutant genomic DNA. No PCR product is generated for wild-type genomic DNA.