

## *pes*<sup>hi2Tg</sup>

### **Nature of the mutation**

*hi2Tg* 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 *hi2Tg* line carries a single viral insertion identified by a virus-specific primer pair (INNT\_01 and INNT\_02) that anneals to the unique region in the 3'-portion of the virus.

#### **Primers:**

INNT\_01: 5' GCT GAC GGG TAG TCA ATC ACT CAG AG 3'

INNT\_02: 5' GAA CCA TCA GAT GTT TCC AGG GTG 3'

#### **PCR program (60\_30\_30):**

- 1\_94°C for 3 min
- 2\_94°C for 30 s
- 3\_60°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: 277 bp**

The 277 bp product is specific for the *hi2Tg* mutant genomic DNA. No PCR product is generated for wild-type genomic DNA.