Strain : VC4223

Genotype: Y57G11B.2(gk5309[loxP + Pmyo-2::GFP::unc-54 3' UTR + Prps-27::neoR::unc-54 3' UTR + loxP]) IV

Type: Homozygous

QC: FFPP

Deletion: 2052 bp

Flanks: AGTTAATCTGAAAAGCAACACTAGAAACCA, GGGTTCAAATCAATTATTTCTGTAATTTAA

Structure: Y57G11B.2\_Insertion.ape, Y57G11B.2\_Wildtype.ape

**Y57G11B.2 Primers:**

Coordinates for primers 1-4 are from Insertion ApE file; coordinates for primer 5 are from WT ApE file. Note that ApE sequence is given as canonical genome sequence, so no primers are annotated as reverse complements.

(1) 526-547: Y57G11B.2-1 SeqVal F

(2) 2032-2051: pMYO-2 SEC Insertion Primer

(3) 6397-6418: NeoR SEC Insertion Primer

(4) 7933-7957: Y57G11B.2-1 SeqVal R

(5) 3554-3575: Y57G11B.2-1 WT F

**Primer combinations and product sizes:**

Upstream insertion site: primers 1+2, product 1526 bp

Downstream insertion site: primers 3+4, product 1561 bp

WT on mutant: primers 4+5, N2 product 1039 bp, missing if deletion is real

WT on N2: primers 4+5, product 1039 bp

**PCR Parameters:**

(1) 94C/30 sec

(2) 94C/30 sec

(3) 60C/30 sec

(4) 72C/2 min

(5) To step (2) x 34 times