Strain : VC4582

Genotype: atp-3(gk5653[loxP + Pmyo-2::GFP::unc-54 3' UTR + Prps-27::neoR::unc-54 3' UTR + loxP])/+ I

Type: Heterozygous

QC: PPxP Note: DS assay on mutants gives multiple products

Deleletion: 1382 bp

Flanks: CTGTTTTCTTTCAAAACATTATTAAGAAGT, TGGCTGAGTATCACTCTCTTAACCATAAGC

Structure: atp-3\_Insertion.ape, atp-3\_Wildtype.ape

**atp-3 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) 1412-1434: atp-3-1 SeqVal F

(2) 2221-2240: pMYO-2 SEC Insertion Primer

(3) 6586-6607: NeoR SEC Insertion Primer

(4) 8251-8270: atp-3-1 SeqVal R

(5) 3057-3076: atp-3-1 WT R

**Primer combinations and product sizes:**

Upstream insertion site: primers 1+2, product 829 bp

Downstream insertion site: primers 3+4, product 1685 bp

WT on mutant: primers 1+5, N2 product 1665 bp, missing if deletion is real

WT on N2: primers 1+5, product 1665 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