Strain : VC4302

Genotype: F20D12.2(gk5385[loxP + Pmyo-2::GFP::unc-54 3' UTR + Prps-27::neoR::unc-54 3' UTR + loxP])/+ IV

Type: Heterozygous

QC: PPxP

Deletion: 4523 bp

Flanks: TCGCTCGCCAGCCGTCTCACGGTTCCTTCA, CGATGATAATCTTTCCGATTTACTGTATTA

Structure: F20D12.2\_Insertion.ape, F20D12.2\_Wildtype.ape

**F20D12.2 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) 1083-1105: F20D12.2-1 SeqVal F

(2) 2482-2501: pMYO-2 SEC Insertion Primer

(3) 6847-6868: NeoR SEC Insertion Primer

(4) 8813-8835: F20D12.2-1 SeqVal R

(5) 6101-6123: F20D12.2-1 WT F

**Primer combinations and product sizes:**

Upstream insertion site: primers 1+2, product 1419 bp

Downstream insertion site: primers 3+4, product 1989 bp

WT on mutant: primers 4+5, N2 product 1841 bp, missing if deletion is real

WT on N2: primers 4+5, product 1841 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