Strain : VC4183

Genotype: M03D4.4(gk5269[loxP + Pmyo-2::GFP::unc-54 3' UTR + Prps-27::neoR::unc-54 3' UTR + loxP]) IV

Type: Homozygous

QC: PPPP

Deleletion: 2613 bp

Flanks: TTGGTTGAGGTGAAGCTCCAGAAGAACTCG, GGTGGTCTCGCTCGCGCAACGACATGGGAA

Structure: M03D4.4\_Insertion.ape, M03D4.4\_Wildtype.ape

**M03D4.4 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) 2399-2423: M03D4.4-1 SeqVal F

(2) 3436-3455: pMYO-2 SEC Insertion Primer

(3) 7801-7822: NeoR SEC Insertion Primer

(4) 9305-9324: M03D4.4-2 SeqVal R

(5) 3719-3739: M03D4.4-2 WT R

**Primer combinations and product sizes:**

Upstream insertion site: primers 1+2, product 1057 bp

Downstream insertion site: primers 3+4, product 1524 bp

WT on mutant: primers 1+5, N2 product 1341 bp, missing if deletion is real

WT on N2: primers 1+5, product 1341 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