Strain : VC4164

Genotype: mab-20(gk5250[loxP + Pmyo-2::GFP::unc-54 3' UTR + Prps-27::neoR::unc-54 3' UTR + loxP]) I

Type: Homozygous

QC: PPPP

Deleletion: 3445 bp

Flanks: ACTGAGAATTGGGAGACACCGGCTCCAGAC, TAAAATTAAACGTCGGATCCACAACACAAA

Structure: mab-20\_Insertion.ape, mab-20\_Wildtype.ape

**mab-20 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) 2358-2378: mab-20-1 SeqVal F

(2) 3551-3570: pMYO-2 SEC Insertion Primer

(3) 7916-7937: NeoR SEC Insertion Primer

(4) 9459-9479: mab-20-1 SeqVal R

(5) 5633-5653: mab-20-1 WT F

**Primer combinations and product sizes:**

Upstream insertion site: primers 1+2, product 1213 bp

Downstream insertion site: primers 3+4, product 1564 bp

WT on mutant: primers 4+5, N2 product 1875 bp, missing if deletion is real

WT on N2: primers 4+5, product 1875 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