Strain : VC4227

Genotype: K02E11.4(gk5314[loxP + Pmyo-2::GFP::unc-54 3' UTR + Prps-27::neoR::unc-54 3' UTR + loxP]) V

Type: Homozygous

QC: PPPP

Deletion: 1078 bp

Flanks: TTGAAGTACGACAGAAAGCTGCTGATGTGC, AAAGGGTTACTACACAATTGTTCAAACTTT

Structure: K02E11.4\_Insertion.ape, K02E11.4\_Wildtype.ape

**K02E11.4 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) 904-925: K02E11.4-1 SeqVal F

(2) 1821-1840: pMYO-2 SEC Insertion Primer

(3) 6186-6207: NeoR SEC Insertion Primer

(4) 7921-7943: K02E11.4-1 SeqVal R

(5) 2429-2449: K02E11.4-1 WT F

**Primer combinations and product sizes:**

Upstream insertion site: primers 1+2, product 937 bp

Downstream insertion site: primers 3+4, product 1758 bp

WT on mutant: primers 4+5, N2 product 1176 bp, missing if deletion is real

WT on N2: primers 4+5, product 1176 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