

Resource Summary Report

Generated by [NIF](#) on Aug 12, 2026

lat-1(gk5420[loxP + myo-2p::GFP::unc-54 3' UTR + rps-27p::neoR::unc-54 3' UTR + loxP])/ mT1 [umnIs52] II; +/-mT1 [dpy-10(e128)] III.

RRID:WB-STRAIN:WBStrain00055521

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00055521

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00055521>

Proper Citation: RRID:WB-STRAIN:WBStrain00055521

Description: Caenorhabditis elegans with name lat-1(gk5420[loxP + myo-2p::GFP::unc-54 3' UTR + rps-27p::neoR::unc-54 3' UTR + loxP])/ mT1 [umnIs52] II; +/-mT1 [dpy-10(e128)] III. from WB.

Species: Caenorhabditis elegans

Synonyms: lat-1(gk5420[loxP + myo-2p::GFP::unc-54 3' UTR + rps-27p::neoR::unc-54 3' UTR + loxP])/ mT1 [umnIs52] II; +/-mT1 [dpy-10(e128)] III.

Notes: Made_by: Morgan Zaic|"umnIs52 [myo-2p::mKate2 + NeoR, III: 8856215 (intergenic)] II. Pick viable fertile GFP+ and mKate2+ animals to maintain. Apparent homozygous lethal or sterile deletion as unbalanced heterozygote. Heterozygotes are wild-type GFP+ mKate2+, and segregate wild-type GFP+ mKate2+, GFP+ non-mKate2 (gk5420 homozygotes), sterile Dpy non-GFP mKate2+ mT1 homozygotes, and large numbers of arrested aneuploid embryos. Derived from parental strains VC4337 and CGC66. gk5420 is a 11293 bp deletion with Calarco/Colaiacovo selection cassette conferring myo-2 GFP and G418 resistance inserted at break. Left flanking sequence: CTCTCCTCTATGCTTTCTCTAGTTTTGCCT; Right flanking sequence: GACGGTGCTTCGAATTGATTTGAACAAGCC. Please reference Au et al., G3 9(1): 135-144 2019 in any work resulting from use of this mutation."

Affected Gene: WBGene00001072(dpy-10)|WBGene00002251(lat-1)|WBGene00003514(myo-2)|WBGene00004496(rps-27)|WBGene00006789(unc-54)

Genomic Alteration: WBGene00001072(dpy-10), WBGene00002251(lat-1), WBGene00003514(myo-2), WBGene00004496(rps-27), WBGene00006789(unc-54)

Catalog Number: WB-STRAIN:WBStrain00055521

Database: WormBase (WB)

Database Abbreviation: WB

Availability: unknown

Organism Name: lat-1(gk5420[loxP + myo-2p::GFP::unc-54 3' UTR + rps-27p::neoR::unc-54 3' UTR + loxP])/ mT1 [umnIs52] II; +/-mT1 [dpy-10(e128)] III.

Record Creation Time: 20240716T202611+0000

Record Last Update: 20260808T171931+0000

Ratings and Alerts

No rating or validation information has been found for lat-1(gk5420[loxP + myo-2p::GFP::unc-54 3' UTR + rps-27p::neoR::unc-54 3' UTR + loxP])/ mT1 [umnIs52] II; +/-mT1 [dpy-10(e128)] III..

No alerts have been found for lat-1(gk5420[loxP + myo-2p::GFP::unc-54 3' UTR + rps-27p::neoR::unc-54 3' UTR + loxP])/ mT1 [umnIs52] II; +/-mT1 [dpy-10(e128)] III..

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We have not found any literature mentions for this resource.