

Resource Summary Report

Generated by [dkNET](#) on Aug 24, 2026

Y45F10D.7(ve688[LoxP + myo-2p::GFP::unc-54 3' UTR + rps-27p::neoR::unc-54 3' UTR + LoxP])/nT1 [umnIs49] IV; +/-nT1 V.

RRID:WB-STRAIN:WBStrain00049427

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00049427

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00049427>

Proper Citation: RRID:WB-STRAIN:WBStrain00049427

Description: Caenorhabditis elegans with name Y45F10D.7(ve688[LoxP + myo-2p::GFP::unc-54 3' UTR + rps-27p::neoR::unc-54 3' UTR + LoxP])/nT1 [umnIs49] IV; +/-nT1 V. from WB.

Species: Caenorhabditis elegans

Synonyms: Y45F10D.7(ve688[LoxP + myo-2p::GFP::unc-54 3' UTR + rps-27p::neoR::unc-54 3' UTR + LoxP])/nT1 [umnIs49] IV; +/-nT1 V.

Notes: Made_by: RG KO Group|"umnIs49 [myo-2p::mKate2 + NeoR, V: 1005689 (intergenic)] IV. Homozygous larval arrest. Deletion of 6878 bp with Calarco/Colaiacovo selection cassette conferring myo-2 GFP and G418 resistance inserted at break in parental strain N2. Heterozygotes are wild-type GFP+ mKate2+, and segregate wild-type GFP+ mKate2+, GFP+ non-mKate arrested larvae (ve688 homozygotes), Vul non-GFP mKate2+ (nT1 homozygotes) and dead eggs (aneuploids).|"umnIs49 [myo-2p::mKate2 + NeoR, V: 1005689 (intergenic)] IV. Homozygous larval arrest. Deletion of 6878 bp with Calarco/Colaiacovo selection cassette conferring myo-2 GFP and G418 resistance inserted at break in parental strain N2. Heterozygotes are wild-type GFP+ mKate2+, and segregate wild-type GFP+ mKate2+, GFP+ non-mKate arrested larvae (ve688 homozygotes), Vul non-GFP mKate2+ (nT1 homozygotes) and dead eggs (aneuploids). Maintain by picking wild-type GFP+ mKate2+. Maintain by picking wild-type GFP+ mKate2+. Left flanking Sequence: tctcatttttcagcttttcagcttttcca ; Right flanking sequence: GAAGGAGCATCGGAGCATGAAGAGCTCACA. sgRNA #1: gcaaATGAAGCGCATCCAGT; sgRNA #2: ATTATGTGGAATGCATCAGA. Please reference Au et al., G3 9(1): 135-144 2019 in any work resulting from use of this

mutation."

Affected Gene: WBGene00003514(myo-2)|WBGene00004496(rps-27)|WBGene00006789(unc-54)

Genomic Alteration: WBGene00003514(myo-2), WBGene00004496(rps-27), WBGene00006789(unc-54)

Catalog Number: WB-STRAIN:WBStrain00049427

Database: WormBase (WB)

Database Abbreviation: WB

Availability: unknown

Organism Name: Y45F10D.7(ve688[LoxP + myo-2p::GFP::unc-54 3' UTR + rps-27p::neoR::unc-54 3' UTR + LoxP])/nT1 [umnIs49] IV; +/-nT1 V.

Record Creation Time: 20230227T013832+0000

Record Last Update: 20260815T163658+0000

Ratings and Alerts

No rating or validation information has been found for Y45F10D.7(ve688[LoxP + myo-2p::GFP::unc-54 3' UTR + rps-27p::neoR::unc-54 3' UTR + LoxP])/nT1 [umnIs49] IV; +/-nT1 V..

No alerts have been found for Y45F10D.7(ve688[LoxP + myo-2p::GFP::unc-54 3' UTR + rps-27p::neoR::unc-54 3' UTR + LoxP])/nT1 [umnIs49] IV; +/-nT1 V..

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.