

Resource Summary Report

Generated by [kravitz2](#) on Sep 20, 2026

VZ454

RRID:WB-STRAIN:WBStrain00040328

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00040328

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00040328>

Proper Citation: RRID:WB-STRAIN:WBStrain00040328

Description: Caenorhabditis elegans with name gsr-1(tm3574)/qC1 dpy-19(e1259) glp-1(q339) nls281 III. from WB.

Species: Caenorhabditis elegans

Synonyms: gsr-1(tm3574)/qC1 dpy-19(e1259) glp-1(q339) nls281 III.

Notes: Made_by: Francisco Jos Naranjo-Galindo|nls281 [myo-2::RFP] integrated near qC1. Recombination between nls281 and qC1 has been reported. Fails to complement all markers on qC1. Heterozygotes are WT and segregate WT, Dpy Sterile, and tm3574 homozygotes. gsr-1(tm3574) is embryonic lethal. gsr-1(m+,z-) animals are viable and reach adulthood with no visible phenotype and lay eggs that invariably arrest at the pregastrula stage; they are slightly short-lived, have increased mitochondrial fragmentation, decreased mitochondrial DNA content and have induced mitochondrial UPR measured by hsp-6::GFP levels. gsr-1(m-,z-) have aberrant perinuclear distribution of interphasic chromatin. NOTE: The RFP-labeled balancer is reportedly not entirely stable in this strain and will occasionally segregate recombinants of two types: sterile RFP+ animals (most likely homozygous qC1 [nls281] worms that are able to grow to adulthood but do not develop germline), and non-RFP animals that lay viable progeny. Maintain by picking fertile RFP+ animals and confirming that non-RFP progeny lay 100% arrested embryos. Reference: Mora-Lorca JA, et al. Free Radic Biol Med. 2016 Jul;96:446-61."

Affected Gene: WBGene00001078(dpy-19)|WBGene00001609(glp-1)|WBGene00008117(gsr-1)

Genomic Alteration: WBGene00001078(dpy-19), WBGene00001609(glp-1), WBGene00008117(gsr-1)

Catalog Number: WB-STRAIN:WBStrain00040328

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Alternate IDs: WB-STRAIN:VZ454, CGC_VZ454

Organism Name: VZ454

Record Creation Time: 20230227T013724+0000

Record Last Update: 20260919T180912+0000

Ratings and Alerts

No rating or validation information has been found for VZ454.

No alerts have been found for VZ454.

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.