

Resource Summary Report

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antIs31 II; unc-119(ed9) III.

RRID:WB-STRAIN:WBStrain00050637

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00050637

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00050637>

Proper Citation: RRID:WB-STRAIN:WBStrain00050637

Description: Caenorhabditis elegans with name antIs31 II; unc-119(ed9) III. from WB.

Species: Caenorhabditis elegans

Synonyms: antIs31 II; unc-119(ed9) III.

Notes: antIs31 [attP-f + Cbr-unc-119(ant40) + glh-2p::phiC31 + rol-6(partial) + myo-2p::GFP + attP-r] II. Unc. antIs31 has been found to self-excise; check for GFP expression periodically to retain the insertion. GFP expression in pharynx is very weak (as it is in single copy) and is easiest to see during the L1-L3 stages. This strain contains a phiC31 docking site and can be used for precise single-copy integration of transgenes via recombination mediated cassette exchange. The docking site contains inverted phiC31-attP sites flanking phiC31 integrase expressed from the glh-2 germline promoter. Integration constructs need to have inverted phiC31-attB sites that flank the intended sequence to be inserted. antIs31 was derived by CRISPR/Cas9 knockout of Cbr-unc-119 in antIs30 creating ant40, a 691 bp deletion in Cbr-unc-119. Because antIs31 does not rescue unc-119(ed3), BRC566 facilitates the use of Unc-119 rescue as a selection marker for transgene insertions. Reference: Yang FJ, et al. phiC31 integrase for recombination mediated single copy insertion and genome manipulation in C. elegans. Genetics 2021.|"Made_by: Fang-Jung Yang"

Affected Gene: WBGene00006843(unc-119)

Genomic Alteration: WBGene00006843(unc-119)

Catalog Number: WB-STRAIN:WBStrain00050637

Database: WormBase (WB)

Database Abbreviation: WB

Availability: unknown

Organism Name: antIs31 II; unc-119(ed9) III.

Record Creation Time: 20230227T013841+0000

Record Last Update: 20260725T172722+0000

Ratings and Alerts

No rating or validation information has been found for antIs31 II; unc-119(ed9) III..

No alerts have been found for antIs31 II; unc-119(ed9) 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.