

Resource Summary Report

Generated by [NIF](#) on Sep 6, 2026

lite1(ce314) X; domIs355.

RRID:WB-STRAIN:WBStrain00054708

Type: Organism

Proper Citation

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Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00054708>

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Description: Caenorhabditis elegans with name lite1(ce314) X; domIs355. from WB.

Species: Caenorhabditis elegans

Synonyms: lite1(ce314) X; domIs355.

Notes: domIs355 [mec3p::QF + mec4p::QS + QUAS::CoChR::GFP + unc122p::RFP]. High sensitivity blue-light optogenetic line for FLP neurons. Transgenic animals expressing the high-sensitivity blue light-activated channelrhodopsin CoChR into FLP using the Q-system combining mec-3p and mec-4p promoters. In animals grown on all trans-retinal-containing medium, low intensity blue light stimuli trigger reversal responses. Animals have red coelomocytes. The transgene was integrated with UV, and outcrossed 2x to parental ce314 mutant strain KG1180. Reference: Schild LC & Glauser DA. Genetics. 2015 Aug;200(4):1029-34. doi: 10.1534/genetics.115.177956. PMID: 26022242.

Catalog Number: WB-STRAIN:WBStrain00054708

Database: WormBase (WB)

Database Abbreviation: WB

Availability: unknown

Organism Name: lite1(ce314) X; domIs355.

Record Creation Time: 20240716T202603+0000

Record Last Update: 20260905T115758+0000

Ratings and Alerts

No rating or validation information has been found for lite1(ce314) X; domIs355..

No alerts have been found for lite1(ce314) X; domIs355..

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.