

Resource Summary Report

Generated by [dkNET](#) on Sep 19, 2026

sng-1(ok234) X; zxls127.

RRID:WB-STRAIN:WBStrain00055741

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00055741

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00055741>

Proper Citation: RRID:WB-STRAIN:WBStrain00055741

Description: Caenorhabditis elegans with name sng-1(ok234) X; zxls127. from WB.

Species: Caenorhabditis elegans

Synonyms: sng-1(ok234) X; zxls127.

Notes: Made_by: Dennis Vettktter]"zxls127 [sng-1p::SNG-1::CRY2olig(535) + myo-2p::mCherry]. Strain should be kept in the dark; it is very light-sensitive. Pan-neuronal expression of a truncated variant of Arabidopsis thaliana Cryptochrome-2 fused to synaptogyrin. If illuminated with blue light, synaptic vesicles cluster, resulting in inhibition of synaptic transmission. Synaptic transmission is restored within 15 minutes in the absence of light (ca. 6.5min time constant), resulting in normal wild type behavior afterwards. Reference: Vettkotter D, et al. Nat Commun 13, 7827 (2022). <https://doi.org/10.1038/s41467-022-28111-1>

Affected Gene: WBGene00004912(sng-1)

Genomic Alteration: WBGene00004912(sng-1)

Catalog Number: WB-STRAIN:WBStrain00055741

Database: WormBase (WB)

Database Abbreviation: WB

Availability: unknown

Organism Name: sng-1(ok234) X; zxls127.

Record Creation Time: 20240716T202613+0000

Record Last Update: 20260912T182147+0000

Ratings and Alerts

No rating or validation information has been found for sng-1(ok234) X; zxls127..

No alerts have been found for sng-1(ok234) X; zxls127..

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.