

# Resource Summary Report

Generated by [dkNET](#) on Sep 5, 2026

## SV1578

RRID:WB-STRAIN:WBStrain00034620

Type: Organism

### Proper Citation

RRID:WB-STRAIN:WBStrain00034620

### Organism Information

**URL:** <http://www.wormbase.org/db/get?name=WBStrain00034620>

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**Description:** *Caenorhabditis elegans* with name unc-119(ed3) III; hels105 IV; swsn-1(os22) heSi164 V; heSi141 X. from WB.

**Species:** *Caenorhabditis elegans*

**Synonyms:** unc-119(ed3) III; hels105 IV; swsn-1(os22) heSi164 V; heSi141 X.

**Notes:** hels105 [rps-27::loxP::NLS::mCherry::let858 UTR::loxP::NLS::GFP::let-858 UTR + unc-119(+)] IV. heSi164 [rps-27::loxN::NLS::mCherry::let858 UTR::swsn-1p::swsn-1::unc-54 UTR::loxN::NLS::GFP::let-858 UTR + unc-119(+)] V. heSi141 [hlh-8(short)::FLAG::CRE::tbb-2 + unc-119(+)] X. Maintain the line at 15C and shift to 25C for mutant analysis. Expression of CRE recombinase in the mesoblast lineage driven by the hlh-8 promoter. heSi164 carries a swsn-1 rescue construct which ensures rescue of the temperature-sensitive swsn-1(os22) mutation. Upon expression of CRE (in this case in the mesoblast lineage) the swsn-1 gene will be excised, creating a mesoblast specific mutant of swsn-1. This recombination event can be visualized by a switch from red to green in those mesoblast cells in which swsn-1 was lost. The animals are healthy at 15C, but embryonic lethal and larval arrested at 23-25C. swsn-1(os22) causes mild overproliferation in the mesoblast lineage. The swsn-1 rescuing transgene is unable to rescue germline development of swsn-1(os22) mutants. Reference: Ruijtenberg S & van den Heuvel S. Cell. 2015 Jul 16;162(2):300-13.

**Affected Gene:** WBGene00004203(swsn-1)|WBGene00006843(unc-119)

**Genomic Alteration:** WBGene00004203(swsn-1), WBGene00006843(unc-119)

**Catalog Number:** WB-STRAIN:WBStrain00034620

**Database:** WormBase (WB)

**Database Abbreviation:** WB

**Availability:** available

**Source References:** [PMID:32494730](#)

**Alternate IDs:** WB-STRAIN:SV1578, CGC\_SV1578

**Organism Name:** SV1578

**Record Creation Time:** 20230227T013640+0000

**Record Last Update:** 20260905T115317+0000

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## Ratings and Alerts

No rating or validation information has been found for SV1578.

No alerts have been found for SV1578.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** WormBase (WB)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.