

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 6, 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>

Proper Citation: RRID:WB-STRAIN:WBStrain00034620

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

Ratings and Alerts

No rating or validation information has been found for SV1578.

No alerts have been found for SV1578.

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.