

Resource Summary Report

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SJ17

RRID:WB-STRAIN:WBStrain00034061

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00034061

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00034061>

Proper Citation: RRID:WB-STRAIN:WBStrain00034061

Description: Caenorhabditis elegans with name xbp-1(zc12) III; zcls4 V. from WB.

Species: Caenorhabditis elegans

Synonyms: xbp-1(zc12) III; zcls4 V.

Notes: WBStrain provided so WBPaper00060933 paper added based on AFP_Strain data.|"zcls4 [hsp-4::GFP] V. xbp-1(zc12) animals contain a nonsense mutation at residue 11 in the predicted xbp-1 protein. Animals are unable to induce hsp-4::GFP in response to treatment by tunicamycin or heat shock."

Affected Gene: WBGene00006959(xbp-1)

Genomic Alteration: WBGene00006959(xbp-1)

Catalog Number: WB-STRAIN:WBStrain00034061

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:33495210](#), [PMID:33542359](#), [PMID:39235964](#), [PMID:39436952](#)

Alternate IDs: WB-STRAIN:SJ17, CGC_SJ17

Organism Name: SJ17

Record Creation Time: 20230227T013635+0000

Record Last Update: 20260815T163230+0000

Ratings and Alerts

No rating or validation information has been found for SJ17.

No alerts have been found for SJ17.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 14 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Xu J, et al. (2024) The unfolded protein response of the endoplasmic reticulum protects *Caenorhabditis elegans* against DNA damage caused by stalled replication forks. *G3* (Bethesda, Md.), 14(4).

Liu P, et al. (2024) UPRER-immunity axis acts as physiological food evaluation system that promotes aversion behavior in sensing low-quality food. *eLife*, 13.

Zhou L, et al. (2024) Temperature perception by ER UPR promotes preventive innate immunity and longevity. *Cell reports*, 43(12), 115071.

Xiao Y, et al. (2023) Dioscin integrates regulation of monosaturated fatty acid metabolism to extend the life span through XBP-1/SBP-1 dependent manner. *iScience*, 26(3), 106265.

Garcia G, et al. (2023) Lipid homeostasis is essential for a maximal ER stress response. *eLife*, 12.

Mingjie Y, et al. (2023) The RIDD activity of *C. elegans* IRE1 modifies neuroendocrine signaling in anticipation of environment stress to ensure survival. *bioRxiv : the preprint server for biology*.

Ho N, et al. (2020) Stress sensor Ire1 deploys a divergent transcriptional program in response to lipid bilayer stress. *The Journal of cell biology*, 219(7).

Imanikia S, et al. (2019) XBP-1 Remodels Lipid Metabolism to Extend Longevity. *Cell reports*, 28(3), 581.

Schinzel RT, et al. (2019) The Hyaluronidase, TMEM2, Promotes ER Homeostasis and Longevity Independent of the UPRER. *Cell*, 179(6), 1306.

Zha J, et al. (2019) HSP-4/BiP expression in secretory cells is regulated by a developmental program and not by the unfolded protein response. *PLoS biology*, 17(3), e3000196.

Solis GM, et al. (2018) Translation attenuation by minocycline enhances longevity and proteostasis in old post-stress-responsive organisms. *eLife*, 7.

Van Assche R, et al. (2017) In vitro aggregating ??-lactamase-polyQ chimeras do not induce toxic effects in an in vivo *Caenorhabditis elegans* model. *Journal of negative results in biomedicine*, 16(1), 14.

Cheesman HK, et al. (2016) Aberrant Activation of p38 MAP Kinase-Dependent Innate Immune Responses Is Toxic to *Caenorhabditis elegans*. *G3 (Bethesda, Md.)*, 6(3), 541.

Bischof LJ, et al. (2008) Activation of the unfolded protein response is required for defenses against bacterial pore-forming toxin in vivo. *PLoS pathogens*, 4(10), e1000176.