

Resource Summary Report

Generated by [dkNET](#) on Jul 30, 2026

pDD162 (Peft-3::Cas9 + Empty sgRNA)

RRID:Addgene_47549

Type: Plasmid

Proper Citation

RRID:Addgene_47549

Plasmid Information

URL: <http://www.addgene.org/47549>

Proper Citation: RRID:Addgene_47549

Insert Name: Cas9

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23995389](#)

Vector Backbone Description: Backbone Size:2300; Vector Backbone:pCFJ601; Vector Types:Worm Expression, CRISPR; Bacterial Resistance:Ampicillin

Comments: For more information on Goldstein Lab CRISPR Plasmids please refer to: <http://www.addgene.org/crispr/Goldstein/> Please note: eft-3 has officially been changed to eef-1A.1 Please see the eef-1A.1 WormBase entry for details: http://www.wormbase.org/species/c_elegans/gene/WBGene00001168#05-9g-3

Plasmid Name: pDD162 (Peft-3::Cas9 + Empty sgRNA)

Relevant Mutation: Codon optimized and with synthetic introns for C. elegans

Record Creation Time: 20220422T222245+0000

Record Last Update: 20260725T074742+0000

Ratings and Alerts

No rating or validation information has been found for pDD162 (Peft-3::Cas9 + Empty sgRNA).

No alerts have been found for pDD162 (Peft-3::Cas9 + Empty sgRNA).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 150 mentions in open access literature.

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

Verschuren J, et al. (2025) FAN1-mediated translesion synthesis and POLQ/HELQ-mediated end joining generate interstrand crosslink-induced mutations. *Nature communications*, 16(1), 2495.

Noblett N, et al. (2025) Nuclear hormone receptor regulation of PAL-1/Caudal mediates ventral nerve cord assembly in *C. elegans*. *Developmental biology*, 528, 13.

Dejima K, et al. (2025) Dual roles of EGO-1 and RRF-1 in regulating germline exo-RNAi efficiency in *Caenorhabditis elegans*. *EMBO reports*, 26(18), 4503.

Zellag RM, et al. (2025) The spatiotemporal distribution of LIN-5/NuMA regulates spindle orientation in the *C. elegans* germ line. *Cell reports*, 44(2), 115296.

Saharkhiz S, et al. (2025) VNC-Dist: A machine learning-based semi-automated pipeline for quantification of neuronal position in the *C. elegans* ventral nerve cord. *PloS one*, 20(8), e0331188.

Zhou Y, et al. (2025) Hormetic nutrient stress promotes longevity by orchestrating histone acetylation on key lipid catabolism and antioxidant defense genes. *bioRxiv : the preprint server for biology*.

Özdemir I, et al. (2025) *sqt-3(sc63)* is an alternative CRISPR/Cas9 co-conversion marker in *Caenorhabditis elegans*. *microPublication biology*, 2025.

Zhou Y, et al. (2025) The nuclear pore complex connects energy sensing to transcriptional plasticity in longevity. *bioRxiv : the preprint server for biology*.

Saharkhiz S, et al. (2025) VNC-Dist: A machine learning-based semi-automated pipeline for quantification of neuronal positioning in the *C. elegans* ventral nerve cord. *bioRxiv : the preprint server for biology*.

Schreier J, et al. (2025) A genetic framework for RNAi inheritance in *Caenorhabditis elegans*. *EMBO reports*, 26(16), 4072.

Shugarts Devanapally NM, et al. (2025) Intergenerational transport of double-stranded RNA in *C. elegans* can limit heritable epigenetic changes. *eLife*, 13.

Turan MG, et al. (2025) ARL13B regulates juxtaposed cilia-cilia elongation in BBSome dependent manner in *Caenorhabditis elegans*. *iScience*, 28(2), 111791.

Wang X, et al. (2024) Tissue-specific profiling of age-dependent miRNAomic changes in *Caenorhabditis elegans*. *Nature communications*, 15(1), 955.

Xu W, et al. (2024) A lineage-resolved cartography of microRNA promoter activity in *C. elegans* empowers multidimensional developmental analysis. *Nature communications*, 15(1), 2783.

Sandhu A, et al. (2024) The microtubule regulator EFA-6 forms spatially restricted cortical foci dependent on its intrinsically disordered region and interactions with tubulins. *bioRxiv* : the preprint server for biology.

Hong M, et al. (2024) Nucleolar stress induces nucleolar stress body formation via the NOSR-1/NUMR-1 axis in *Caenorhabditis elegans*. *Nature communications*, 15(1), 7256.

Xu K, et al. (2024) AlphaFold2-guided engineering of split-GFP technology enables labeling of endogenous tubulins across species while preserving function. *PLoS biology*, 22(8), e3002615.

Lyu H, et al. (2024) Functional distinction in oncogenic Ras variant activity in *Caenorhabditis elegans*. *Disease models & mechanisms*, 17(8).

Brinkley DM, et al. (2024) Notch signaling without the APH-2/nicastrin subunit of gamma secretase in *Caenorhabditis elegans* germline stem cells. *Genetics*, 227(3).

Knop F, et al. (2024) *Caenorhabditis elegans* SEL-5/AAK1 regulates cell migration and cell outgrowth independently of its kinase activity. *eLife*, 13.