

Resource Summary Report

Generated by [NIF](#) on Aug 28, 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: 20260815T081542+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 164 mentions in open access literature.

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

van Schendel R, et al. (2026) TONSL suppresses polymerase theta-dependent tandem duplications through chromatin-guided repair. *Nature communications*, 17(1).

Ahsan FM, et al. (2026) Reductive death is averted by a conserved de novo lipogenic switch. *Molecular cell*, 86(13), 2539.

Pereirinha J, et al. (2026) SLBP-independent control of maternal histone mRNA. *bioRxiv : the preprint server for biology*.

Matsunaga Y, et al. (2026) The pseudokinase domain PK1 of UNC-89/obscurin is required for mitochondrial morphology and function in *C. elegans*. *Journal of muscle research and cell motility*, 47(3).

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.

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.

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.

Huang X, et al. (2025) The H3K27me3 reader UAD-2 recruits a TAF-12-containing transcription machinery to initiate piRNA expression within heterochromatic clusters. *Nature communications*, 16(1), 10538.

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*.

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*.

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

Niu L, et al. (2025) A scaffold attachment factor PHM-2 regulates synaptic transmission through SLO-2 potassium channel in *C. elegans*. *bioRxiv : the preprint server for biology*.

Zhang P, et al. (2025) Cell signaling facilitates apical constriction by basolaterally recruiting Arp2/3 via Rac and WAVE. *The Journal of cell biology*, 224(5).

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

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*.

Li Y, et al. (2025) SDS-22 stabilizes GSP-1/-2 PP1 subunits contributing to polarity establishment in *C. elegans* embryos. *EMBO reports*, 26(24), 6240.

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