

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 1, 2026

pEGFP-D50 lamin A

RRID:Addgene_17653

Type: Plasmid

Proper Citation

RRID:Addgene_17653

Plasmid Information

URL: <http://www.addgene.org/17653>

Proper Citation: RRID:Addgene_17653

Insert Name: D50 lamin A

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:15750600](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4730; Vector Backbone:pEGFP-C1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: pEGFP-D50 lamin A

Relevant Mutation: Delta 50 (50 aa internal deletion in globular tail domain)

Record Creation Time: 20220422T222020+0000

Record Last Update: 20260829T080047+0000

Ratings and Alerts

No rating or validation information has been found for pEGFP-D50 lamin A.

No alerts have been found for pEGFP-D50 lamin A.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Sosenko Piscitello A, et al. (2025) Temporal control of human DNA replication licensing by CDK4/6-RB signalling and chemical genetics. *Nature communications*, 16(1), 8268.

Joudeh LA, et al. (2023) Corruption of DNA end-joining in mammalian chromosomes by progerin expression. *DNA repair*, 126, 103491.

Batha L, et al. (2023) Differential Gene Expression Signatures and Cellular Signaling Pathways induced by Lamin A/C Transcript Variants in MCF7 Cell Line. *Frontiers in bioscience (Landmark edition)*, 28(6), 113.

Mohebi A, et al. (2022) Phasor map analysis to investigate Hutchinson-Gilford progeria cell under polarization-resolved optical scanning microscopy. *Scientific reports*, 12(1), 1679.

Sanders JT, et al. (2022) Loops, topologically associating domains, compartments, and territories are elastic and robust to dramatic nuclear volume swelling. *Scientific reports*, 12(1), 4721.

Pack LR, et al. (2021) Clinical CDK4/6 inhibitors induce selective and immediate dissociation of p21 from cyclin D-CDK4 to inhibit CDK2. *Nature communications*, 12(1), 3356.

Tusamda Wakhloo N, et al. (2020) Actomyosin, vimentin and LINC complex pull on osteosarcoma nuclei to deform on micropillar topography. *Biomaterials*, 234, 119746.

Lionetti MC, et al. (2020) Chromatin and Cytoskeletal Tethering Determine Nuclear Morphology in Progerin-Expressing Cells. *Biophysical journal*, 118(9), 2319.

Küchler P, et al. (2018) Identification of novel PDE γ interacting proteins. *Bioorganic & medicinal chemistry*, 26(8), 1426.

Cho S, et al. (2018) Progerin phosphorylation in interphase is lower and less mechanosensitive than lamin-A,C in iPS-derived mesenchymal stem cells. *Nucleus (Austin, Tex.)*, 9(1), 230.

Sarmiento MJ, et al. (2018) Exploiting the tunability of stimulated emission depletion microscopy for super-resolution imaging of nuclear structures. *Nature communications*, 9(1), 3415.

Piekarowicz K, et al. (2017) The effect of the lamin A and its mutants on nuclear structure, cell proliferation, protein stability, and mobility in embryonic cells. *Chromosoma*, 126(4), 501.

George CM, et al. (2014) Condensins are Required for Maintenance of Nuclear Architecture. *Cells*, 3(3), 865.

De Vos WH, et al. (2011) Repetitive disruptions of the nuclear envelope invoke temporary loss of cellular compartmentalization in laminopathies. *Human molecular genetics*, 20(21), 4175.