

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

pBABE-puro-GFP-progerin

RRID:Addgene_17663

Type: Plasmid

Proper Citation

RRID:Addgene_17663

Plasmid Information

URL: <http://www.addgene.org/17663>

Proper Citation: RRID:Addgene_17663

Insert Name: GFP-D50 lamin A

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:18311132](#)

Vector Backbone Description: Backbone Size:5200; Vector Backbone:pBABE-puro; Vector Types:Mammalian Expression, Retroviral; Bacterial Resistance:Ampicillin

Comments: This vector was generated by cloning the NheI–BamHI fragment from pEGFP–D50 lamin A into the BamHI site of the pBABE-puro vector after filling of the ends. This plasmid exists as a dimer in our stock. Dimerization often does not impact plasmid function, but may reduce transformation efficiencies. If you need the monomeric version, you could try linearizing, gel extracting, re-ligating, and transforming the plasmid.

Plasmid Name: pBABE-puro-GFP-progerin

Relevant Mutation: Delta 50

Record Creation Time: 20220422T222020+0000

Record Last Update: 20260815T081100+0000

Ratings and Alerts

No rating or validation information has been found for pBABE-puro-GFP-progerin.

No alerts have been found for pBABE-puro-GFP-progerin.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 23 mentions in open access literature.

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

Yamada L, et al. (2026) The senescence-inhibitory p53 isoform ?133p53? represses the proinflammatory chemokine CXCL10 in progeria model mice and naturally aged mice. bioRxiv : the preprint server for biology.

Yamada L, et al. (2026) Senescence-inhibitory ?133p53? counteracts accelerated ageing and mortality. bioRxiv : the preprint server for biology.

Balafouti S, et al. (2025) Tension-sensitive LINC-RhoA signaling prevents chromatin bridge breakage in cytokinesis. The EMBO journal, 44(20), 5834.

Dzianisava V, et al. (2025) Selection of specific and efficient siRNAs in new cellular model for Hutchinson-Gilford progeria syndrome therapy. Molecular therapy. Nucleic acids, 36(4), 102727.

Ziegler DV, et al. (2024) Cholesterol biosynthetic pathway induces cellular senescence through ERR?. npj aging, 10(1), 5.

Herrera I, et al. (2023) Lamin A upregulation reorganizes the genome during rod photoreceptor degeneration. Cell death & disease, 14(10), 701.

Coll-Bonfill N, et al. (2023) Progerin induces a phenotypic switch in vascular smooth muscle cells and triggers replication stress and an aging-associated secretory signature. GeroScience, 45(2), 965.

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.

Bin Imtiaz MK, et al. (2022) Human neural progenitors establish a diffusion barrier in the endoplasmic reticulum membrane during cell division. Development (Cambridge, England), 149(20).

Jiang Y, et al. (2022) Progerin-Induced Impairment in Wound Healing and Proliferation in Vascular Endothelial Cells. Frontiers in aging, 3, 844885.

von Kleeck R, et al. (2022) Progerin mislocalizes myocardin-related transcription factor in Hutchinson-Guilford Progeria syndrome. Vascular biology (Bristol, England), 4(1), 1.

Frankel D, et al. (2022) miR-376a-3p and miR-376b-3p overexpression in Hutchinson-Gilford progeria fibroblasts inhibits cell proliferation and induces premature senescence. iScience, 25(2), 103757.

Han M, et al. (2021) ZMPSTE24 Regulates SARS-CoV-2 Spike Protein-enhanced Expression of Endothelial PAI-1. *American journal of respiratory cell and molecular biology*, 65(3), 300.

Bin Imtiaz MK, et al. (2021) Declining lamin B1 expression mediates age-dependent decreases of hippocampal stem cell activity. *Cell stem cell*, 28(5), 967.

Machiela E, et al. (2020) The Interaction of Aging and Cellular Stress Contributes to Pathogenesis in Mouse and Human Huntington Disease Neurons. *Frontiers in aging neuroscience*, 12, 524369.

Renkawitz J, et al. (2019) Nuclear positioning facilitates amoeboid migration along the path of least resistance. *Nature*, 568(7753), 546.

Griveau A, et al. (2018) Targeting the phospholipase A2 receptor ameliorates premature aging phenotypes. *Aging cell*, 17(6), e12835.

Choi H, et al. (2018) Expression of the Hutchinson-Gilford Progeria Mutation Leads to Aberrant Dentin Formation. *Scientific reports*, 8(1), 15368.

Pacheco LM, et al. (2014) Progerin expression disrupts critical adult stem cell functions involved in tissue repair. *Aging*, 6(12), 1049.

Chen ZJ, et al. (2014) Dysregulated interactions between lamin A and SUN1 induce abnormalities in the nuclear envelope and endoplasmic reticulum in progeric laminopathies. *Journal of cell science*, 127(Pt 8), 1792.