

Resource Summary Report

Generated by [RRID](#) on Aug 23, 2026

Rtn4a-GFP

RRID:Addgene_61807

Type: Plasmid

Proper Citation

RRID:Addgene_61807

Plasmid Information

URL: <http://www.addgene.org/61807>

Proper Citation: RRID:Addgene_61807

Insert Name: Rtn4a

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:18442980](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4700; Vector Backbone:pAcGFP1-N1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: This plasmid has been found to run as a multimer. Plasmid multimerization often does not impact plasmid function, but may reduce transformation efficiencies. You may need to screen multiple colonies to isolate the monomeric version of this plasmid. If you still have trouble isolating the monomeric version, you might consider linearizing, gel extracting, re-ligating, and transforming the plasmid.

Plasmid Name: Rtn4a-GFP

Relevant Mutation: Rtn4a Stop Codon removed

Record Creation Time: 20220422T222354+0000

Record Last Update: 20260815T081746+0000

Ratings and Alerts

No rating or validation information has been found for Rtn4a-GFP.

No alerts have been found for Rtn4a-GFP.

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 [RRID](#) .

Merta H, et al. (2025) Spatial proteomics of ER tubules reveals CLMN, an ER-actin tether at focal adhesions that promotes cell migration. Cell reports, 44(4), 115502.

Paul B, et al. (2024) Paraoxonase-like APMAP maintains endoplasmic reticulum-associated lipid and lipoprotein homeostasis. bioRxiv : the preprint server for biology.

Liu Y, et al. (2024) Nogo-A exacerbates sepsis-associated encephalopathy by modulating microglial SHP-2/NLRP3 balance and inducing ROS and M1 polarization. Biomolecules & biomedicine, 25(1), 210.

Koppers M, et al. (2024) Axonal endoplasmic reticulum tubules control local translation via P180/RRBP1-mediated ribosome interactions. Developmental cell, 59(16), 2053.

Parlakgöl G, et al. (2022) Regulation of liver subcellular architecture controls metabolic homeostasis. Nature, 603(7902), 736.

Wang B, et al. (2022) The endoplasmic reticulum adopts two distinct tubule forms. Proceedings of the National Academy of Sciences of the United States of America, 119(18), e2117559119.

Joshi AS, et al. (2021) Multiple C2 domain-containing transmembrane proteins promote lipid droplet biogenesis and growth at specialized endoplasmic reticulum subdomains. Molecular biology of the cell, 32(12), 1147.

Özkan N, et al. (2021) ER - lysosome contacts at a pre-axonal region regulate axonal lysosome availability. Nature communications, 12(1), 4493.

Behrendt L, et al. (2021) Disease-causing mutated ATLASTIN 3 is excluded from distal axons and reduces axonal autophagy. Neurobiology of disease, 155, 105400.

Adachi Y, et al. (2020) Drp1 Tubulates the ER in a GTPase-Independent Manner. Molecular cell, 80(4), 621.

Jiang X, et al. (2020) Overexpressed coiled-coil domain containing protein 8 (CCDC8) mediates newly synthesized HIV-1 Gag lysosomal degradation. Scientific reports, 10(1), 11416.

Yuniati L, et al. (2020) Ubiquitylation of the ER-Shaping Protein Lunapark via the CRL3KLHL12 Ubiquitin Ligase Complex. Cell reports, 31(7), 107664.

Farías GG, et al. (2019) Feedback-Driven Mechanisms between Microtubules and the Endoplasmic Reticulum Instruct Neuronal Polarity. *Neuron*, 102(1), 184.

Pathak GP, et al. (2018) RTN4 Knockdown Dysregulates the AKT Pathway, Destabilizes the Cytoskeleton, and Enhances Paclitaxel-Induced Cytotoxicity in Cancers. *Molecular therapy : the journal of the American Society of Gene Therapy*, 26(8), 2019.