

Resource Summary Report

Generated by [NIF](#) on Aug 10, 2026

pEGFP-N1-TFE3

RRID:Addgene_38120

Type: Plasmid

Proper Citation

RRID:Addgene_38120

Plasmid Information

URL: <http://www.addgene.org/38120>

Proper Citation: RRID:Addgene_38120

Insert Name: TFE3

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:22692423](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4733; Vector Backbone:pEGFP-N1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: pEGFP-N1-TFE3

Relevant Mutation: deleted stop codon

Record Creation Time: 20220422T222201+0000

Record Last Update: 20260808T081614+0000

Ratings and Alerts

No rating or validation information has been found for pEGFP-N1-TFE3.

No alerts have been found for pEGFP-N1-TFE3.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 19 mentions in open access literature.

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

Wang J, et al. (2025) Regulation of lipoprotein processing by GPNMB in foamy macrophages: potential therapeutic targets for atherosclerosis. *Nature communications*, 16(1), 10030.

Rusmini P, et al. (2025) Impairment of lysosomal quality control in Huntington disease. *Cell death & disease*, 16(1), 762.

Jing Y, et al. (2025) Lysine-arginine imbalance overcomes therapeutic tolerance governed by the transcription factor E3-lysosome axis in glioblastoma. *Nature communications*, 16(1), 2876.

So CL, et al. (2025) TFE3 fusion oncoprotein condensates drive transcriptional reprogramming and cancer progression in translocation renal cell carcinoma. *Cell reports*, 44(4), 115539.

Brunialti E, et al. (2024) Design and validation of a reporter mouse to study the dynamic regulation of TFEB and TFE3 activity through in vivo imaging techniques. *Autophagy*, 20(8), 1879.

Fujiki K, et al. (2024) Blockage of Akt activation suppresses cadmium-induced renal tubular cellular damages through aggrephagy in HK-2 cells. *Scientific reports*, 14(1), 14552.

Yang S, et al. (2024) The GATOR2 complex maintains lysosomal-autophagic function by inhibiting the protein degradation of MiT/TFEs. *Molecular cell*, 84(4), 727.

Ragu S, et al. (2023) A noncanonical response to replication stress protects genome stability through ROS production, in an adaptive manner. *Cell death and differentiation*, 30(5), 1349.

Wang S, et al. (2022) Autophagy activation by dietary piceatannol enhances the efficacy of immunogenic chemotherapy. *Frontiers in immunology*, 13, 968686.

Ferrari V, et al. (2022) Pathogenic variants of Valosin-containing protein induce lysosomal damage and transcriptional activation of autophagy regulators in neuronal cells. *Neuropathology and applied neurobiology*, 48(5), e12818.

Mohamud Y, et al. (2021) Coxsackievirus B3 targets TFEB to disrupt lysosomal function. *Autophagy*, 17(12), 3924.

Chen YC, et al. (2020) N-myristoyltransferase-1 is necessary for lysosomal degradation and mTORC1 activation in cancer cells. *Scientific reports*, 10(1), 11952.

Zheng K, et al. (2020) Sulforaphane Inhibits Autophagy and Induces Exosome-Mediated Paracrine Senescence via Regulating mTOR/TFE3. *Molecular nutrition & food research*, 64(14), e1901231.

Hu Z, et al. (2020) Transient inhibition of mTOR in human pluripotent stem cells enables robust formation of mouse-human chimeric embryos. *Science advances*, 6(20), eaaz0298.

Wang H, et al. (2020) Oxidation of multiple MiT/TFE transcription factors links oxidative stress to transcriptional control of autophagy and lysosome biogenesis. *Autophagy*, 16(9), 1683.

Chen Y, et al. (2019) Dynasore Suppresses mTORC1 Activity and Induces Autophagy to Regulate the Clearance of Protein Aggregates in Neurodegenerative Diseases. *Neurotoxicity research*, 36(1), 108.

Noguchi K, et al. (2018) Interleukin-like EMT inducer (ILEI) promotes melanoma invasiveness and is transcriptionally up-regulated by upstream stimulatory factor-1 (USF-1). *The Journal of biological chemistry*, 293(29), 11401.

Sakamaki JI, et al. (2017) Bromodomain Protein BRD4 Is a Transcriptional Repressor of Autophagy and Lysosomal Function. *Molecular cell*, 66(4), 517.

Zheng K, et al. (2017) NOX2-Mediated TFEB Activation and Vacuolization Regulate Lysosome-Associated Cell Death Induced by Gypenoside L, a Saponin Isolated from *Gynostemma pentaphyllum*. *Journal of agricultural and food chemistry*, 65(31), 6625.