

Resource Summary Report

Generated by [RRID](#) on Sep 3, 2026

pTriEx-NTOM20-LOV2

RRID:Addgene_81009

Type: Plasmid

Proper Citation

RRID:Addgene_81009

Plasmid Information

URL: <http://www.addgene.org/81009>

Proper Citation: RRID:Addgene_81009

Insert Name: LOV2

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:27427858](#)

Vector Backbone Description: Backbone Size:5040; Vector Backbone:pTriEx; Vector Types:Mammalian Expression, Bacterial Expression, Insect Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pTriEx-NTOM20-LOV2

Record Creation Time: 20220422T222528+0000

Record Last Update: 20260902T050258+0000

Ratings and Alerts

No rating or validation information has been found for pTriEx-NTOM20-LOV2.

No alerts have been found for pTriEx-NTOM20-LOV2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Marhuenda E, et al. (2025) Mechanosensitive biochemical imprinting of the talin interaction with DLC1 regulates RhoA activity and cardiomyocyte remodeling. *Science advances*, 11(36), eadt6083.

Nagpal S, et al. (2024) Optogenetic control of kinesin-1, -2, -3 and dynein reveals their specific roles in vesicular transport. *Cell reports*, 43(8), 114649.

Ka?afut J, et al. (2022) Optogenetic control of NOTCH1 signaling. *Cell communication and signaling : CCS*, 20(1), 67.

Hülsemann M, et al. (2020) Optogenetics: Rho GTPases Activated by Light in Living Macrophages. *Methods in molecular biology (Clifton, N.J.)*, 2108, 281.

Zhen Y, et al. (2020) ESCRT-mediated phagophore sealing during mitophagy. *Autophagy*, 16(5), 826.

van Haren J, et al. (2020) Optogenetic Control of Microtubule Dynamics. *Methods in molecular biology (Clifton, N.J.)*, 2101, 211.

Kamps D, et al. (2020) Optogenetic Tuning Reveals Rho Amplification-Dependent Dynamics of a Cell Contraction Signal Network. *Cell reports*, 33(9), 108467.

Shcherbakova DM, et al. (2018) Direct multiplex imaging and optogenetics of Rho GTPases enabled by near-infrared FRET. *Nature chemical biology*, 14(6), 591.

Wang H, et al. (2016) LOVTRAP: A Versatile Method to Control Protein Function with Light. *Current protocols in cell biology*, 73, 21.10.1.