# Resource Summary Report

Generated by nidm-terms on Sep 2, 2026

## NLS-mCherry-LEXY (pDN122)

RRID:Addgene_72655
Type: Plasmid

### Proper Citation

RRID:Addgene_72655

### Plasmid Information

**URL:** http://www.addgene.org/72655

**Proper Citation:** RRID:Addgene_72655

**Insert Name:** NLS-mCherry-LEXY

**Bacterial Resistance:** Ampicillin

**Defining Citation:** PMID:26853913

**Vector Backbone Description:** Vector Backbone:pcDNA3.1 (-); Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

**Plasmid Name:** NLS-mCherry-LEXY (pDN122)

**Record Creation Time:** 20220422T222446+0000

**Record Last Update:** 20260902T050103+0000

### Ratings and Alerts

No rating or validation information has been found for NLS-mCherry-LEXY (pDN122).

No alerts have been found for NLS-mCherry-LEXY (pDN122).

### Data and Source Information

**Source:** Addgene

### Usage and Citation Metrics

We found 21 mentions in open access literature.

**Listed below are recent publications.** The full list is available at nidm-terms .


Deb Roy A, et al. (2026) OptoTAT reveals microtubule acetylation as a rapid trigger for GEF-H1-mediated cell migration. The Journal of cell biology, 225(5).

Tapia-Rojo R, et al. (2026) The local mechanostructural properties of protein cargoes regulate nucleocytoplasmic transport. Nature physics, 22(5), 770.

Mondal P, et al. (2026) Rapid optogenetic manipulation of autophagy reveals that the nuclear pore complex is a robust autophagy substrate. bioRxiv : the preprint server for biology.

Baytshtok V, et al. (2025) Structural basis for a nucleoporin exportin complex between RanBP2, SUMO1-RanGAP1, the E2 Ubc9, Crm1 and the Ran GTPase. Nature communications, 16(1), 6403.

Merigliano C, et al. (2025) Off-pore Nup98 condensates mobilize heterochromatic breaks and exclude Rad51. Molecular cell, 85(12), 2355.

Baytshtok V, et al. (2024) Structural basis for a nucleoporin exportin complex between RanBP2, SUMO1-RanGAP1, the E2 Ubc9, Crm1 and the Ran GTPase. bioRxiv : the preprint server for biology.

Roy AD, et al. (2024) Optogenetically Induced Microtubule Acetylation Unveils the Molecular Dynamics of Actin-Microtubule Crosstalk in Directed Cell Migration. bioRxiv : the preprint server for biology.

Merigliano C, et al. (2024) "Off-pore" nucleoporins relocalize heterochromatic breaks through phase separation. bioRxiv : the preprint server for biology.

Panagaki F, et al. (2024) Structural anisotropy results in mechano-directional transport of proteins across nuclear pores. Nature physics, 20(7), 1180.

Zych MG, et al. (2024) RCC1 depletion drives protein transport defects and rupture in micronuclei. bioRxiv : the preprint server for biology.

Andreu I, et al. (2022) Mechanical force application to the nucleus regulates nucleocytoplasmic transport. Nature cell biology, 24(6), 896.

Singh AP, et al. (2022) Optogenetic control of the Bicoid morphogen reveals fast and slow modes of gap gene regulation. Cell reports, 38(12), 110543.

Hou Y, et al. (2022) Optogenetic Control of Background Fluorescence Reduction for CRISPR-Based Genome Imaging. Analytical chemistry, 94(24), 8724.

Inutsuka A, et al. (2022) Nanobody-based RFP-dependent Cre recombinase for selective anterograde tracing in RFP-expressing transgenic animals. Communications biology, 5(1), 979.

Yoo TY, et al. (2021) O-GlcNAc modification of nuclear pore complexes accelerates bidirectional transport. The Journal of cell biology, 220(7).

Chen S, et al. (2021) Association of RanGAP to nuclear pore complex component, RanBP2/Nup358, is required for pupal development in Drosophila. Cell reports, 37(13), 110151.

Wang Z, et al. (2020) HIV-1 resists MxB inhibition of viral Rev protein. Emerging microbes & infections, 9(1), 2030.

Aksenova V, et al. (2020) Nucleoporin TPR is an integral component of the TREX-2 mRNA export pathway. Nature communications, 11(1), 4577.

Weis D, et al. (2020) Optogenetic Control of Nucleocytoplasmic Protein Transport. Methods in molecular biology (Clifton, N.J.), 2173, 127.

Yau KC, et al. (2020) RanBP1 controls the Ran pathway in mammalian cells through regulation of mitotic RCC1 dynamics. Cell cycle (Georgetown, Tex.), 19(15), 1899.