

Resource Summary Report

Generated by [NIF](#) on Jul 31, 2026

[pYIC](#)

RRID:Addgene_18673

Type: Plasmid

Proper Citation

RRID:Addgene_18673

Plasmid Information

URL: <http://www.addgene.org/18673>

Proper Citation: RRID:Addgene_18673

Insert Name: Bicistronic fluorescent reporter gene with cap-dependent EYFP and IRES-dependent ECFP translation under the control of CMV promo

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:17023487](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:5300; Vector Backbone:pIRES2-EGFP; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: EYFP tagged at N-terminus with 3 copies of Myc epitope tags and at C-terminus with a copy of FLAG and polyhistidine (His6) epitope tags. ECFP tagged at the C-terminus with one copy of hemagglutinin (HA) and polyhistidine (His6) epitope tags. EGFP of pIRES2-EGFP (Clontech) replaced at an 803 bp BstXI-NotI, PCR amplified fragment with ECFP from pECFP-Mito (Clontech) tagged at the C-terminus with a single copy of hemagglutinin (HA) and polyhistidine (His6) epitope tags; IRES-dependent translation yields ECFP-HA-His6 fusion protein. 895 bp Sac I/Eco RI fragment containing amino terminal 3 Myc epitope tags fused to EYFP obtained from PCR amplification of pEYFP-N1 (Clontech), which is also tagged at C-terminus with a single copy of FLAG and polyhistidine (His6) epitope tag; cap-dependent translation yields 3Myc-EYFP-Flag-His6 fusion protein. See article for detailed information.

Plasmid Name: pYIC

Record Creation Time: 20220422T222041+0000

Record Last Update: 20260725T074402+0000

Ratings and Alerts

No rating or validation information has been found for pYIC.

No alerts have been found for pYIC.

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 [NIF](#) .

Zhang D, et al. (2022) A non-canonical cGAS-STING-PERK pathway facilitates the translational program critical for senescence and organ fibrosis. *Nature cell biology*, 24(5), 766.

Githaka JM, et al. (2021) BAD regulates mammary gland morphogenesis by 4E-BP1-mediated control of localized translation in mouse and human models. *Nature communications*, 12(1), 2939.

van den Akker GGH, et al. (2021) Current Practice in Bicistronic IRES Reporter Use: A Systematic Review. *International journal of molecular sciences*, 22(10).

Dierschke SK, et al. (2020) Diabetes enhances translation of Cd40 mRNA in murine retinal Müller glia via a 4E-BP1/2-dependent mechanism. *The Journal of biological chemistry*, 295(31), 10831.

Zhang C, et al. (2016) Icariside II, a natural mTOR inhibitor, disrupts aberrant energy homeostasis via suppressing mTORC1-4E-BP1 axis in sarcoma cells. *Oncotarget*, 7(19), 27819.

Wieczorek A, et al. (2015) Development and characterization of a eukaryotic expression system for human type II procollagen. *BMC biotechnology*, 15, 112.

Buj R, et al. (2013) A plasmid toolkit for cloning chimeric cDNAs encoding customized fusion proteins into any Gateway destination expression vector. *BMC molecular biology*, 14(1), 18.

Ivanov SS, et al. (2013) Pathogen signatures activate a ubiquitination pathway that modulates the function of the metabolic checkpoint kinase mTOR. *Nature immunology*, 14(12), 1219.

Bartoli KM, et al. (2011) Kinesin molecular motor Eg5 functions during polypeptide synthesis. *Molecular biology of the cell*, 22(18), 3420.