

Resource Summary Report

Generated by [RRID](#) on Aug 20, 2026

[CRY2olig-mCherry](#)

RRID:Addgene_60032

Type: Plasmid

Proper Citation

RRID:Addgene_60032

Plasmid Information

URL: <http://www.addgene.org/60032>

Proper Citation: RRID:Addgene_60032

Insert Name: CRY2PHR E490G

Organism: Arabidopsis thaliana

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:25233328](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4000; Vector Backbone:pmCherryN1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: CRY2olig-mCherry

Relevant Mutation: E490G

Record Creation Time: 20220422T222345+0000

Record Last Update: 20260815T081728+0000

Ratings and Alerts

No rating or validation information has been found for CRY2olig-mCherry.

No alerts have been found for CRY2olig-mCherry.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 30 mentions in open access literature.

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

Liu JY, et al. (2026) Liquid-liquid phase separation of EphB4 drives pulmonary hypertension via YAP activation. *Cell reports*, 45(2), 116992.

Park KH, et al. (2025) Optogenetic induction of TDP-43 aggregation impairs neuronal integrity and behavior in *Caenorhabditis elegans*. *Translational neurodegeneration*, 14(1), 20.

Hurtle B, et al. (2024) Live-cell visualization of tau aggregation in human neurons. *Communications biology*, 7(1), 1143.

Wurz AI, et al. (2024) Optogenetic Regulation of EphA1 RTK Activation and Signaling. *bioRxiv* : the preprint server for biology.

Hodgson RE, et al. (2024) C9orf72 poly-PR forms anisotropic condensates causative of nuclear TDP-43 pathology. *iScience*, 27(10), 110937.

Kitamura A, et al. (2024) Hetero-oligomerization of TDP-43 carboxy-terminal fragments with cellular proteins contributes to proteotoxicity. *Communications biology*, 7(1), 743.

Liu J, et al. (2023) Endothelial discoidin domain receptor 1 senses flow to modulate YAP activation. *Nature communications*, 14(1), 6457.

Hasel de Carvalho E, et al. (2023) The Opto-inflammasome in zebrafish as a tool to study cell and tissue responses to speck formation and cell death. *eLife*, 12.

Vidak S, et al. (2023) Activation of endoplasmic reticulum stress in premature aging via the inner nuclear membrane protein SUN2. *Cell reports*, 42(5), 112534.

Maldonado RK, et al. (2023) The Rous sarcoma virus Gag polyprotein forms biomolecular condensates driven by intrinsically-disordered regions. *bioRxiv* : the preprint server for biology.

Olah SS, et al. (2023) Acute reorganization of postsynaptic GABAA receptors reveals the functional impact of molecular nanoarchitecture at inhibitory synapses. *Cell reports*, 42(11), 113331.

Kaddis Maldonado R, et al. (2023) The Rous sarcoma virus Gag Polyprotein Forms Biomolecular Condensates Driven by Intrinsically-disordered Regions. *Journal of molecular biology*, 435(16), 168182.

Bérard M, et al. (2022) A light-inducible protein clustering system for in vivo analysis of α -synuclein aggregation in Parkinson disease. *PLoS biology*, 20(3), e3001578.

Boyd-Shiwerski CR, et al. (2022) WNK kinases sense molecular crowding and rescue cell volume via phase separation. *Cell*, 185(24), 4488.

Qiu K, et al. (2022) Light-activated mitochondrial fission through optogenetic control of mitochondria-lysosome contacts. *Nature communications*, 13(1), 4303.

Shkarina K, et al. (2022) Optogenetic activators of apoptosis, necroptosis, and pyroptosis. *The Journal of cell biology*, 221(6).

Han D, et al. (2022) Dynamic assembly of the mRNA m6A methyltransferase complex is regulated by METTL3 phase separation. *PLoS biology*, 20(2), e3001535.

Gao J, et al. (2021) Translational regulation in the brain by TDP-43 phase separation. *The Journal of cell biology*, 220(10).

Miangolarra AM, et al. (2021) Two timescales control the creation of large protein aggregates in cells. *Biophysical journal*, 120(12), 2394.

Wang Y, et al. (2021) LIMD1 phase separation contributes to cellular mechanics and durotaxis by regulating focal adhesion dynamics in response to force. *Developmental cell*, 56(9), 1313.