

Resource Summary Report

Generated by [RRID](#) on Aug 22, 2026

phage-cmv-cfp-24xms2

RRID:Addgene_40651

Type: Plasmid

Proper Citation

RRID:Addgene_40651

Plasmid Information

URL: <http://www.addgene.org/40651>

Proper Citation: RRID:Addgene_40651

Insert Name: CFP-24xMBS

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:22735544](#)

Vector Backbone Description: Vector Backbone:pHAGE-CMV; Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Comments: The Singer Lab no longer recommends this plasmid, as it has a higher rate of bacterial recombination. For mammalian cells they recommend the following plasmids: pUbC-FLAG-24xSuntagV4-oxEBFP-AID-baUTR1-24xMS2V5-Wpre (Plasmid #84561) HaloTag-bActinCDS-bActinUTR-MS2V5 (Plasmid #102718) For yeast cells they recommend the following plasmids: pET246-pUC57 12xMS2V6 (Plasmid #104390) pET259-pUC57 24xMS2V6 (Plasmid #104391) pET251-pUC 12xMS2V6 Loxp KANr Loxp (Plasmid #104392) pET264-pUC 24xMS2V6 Loxp KANr Loxp (Plasmid #104393) Due to the propensity of the plasmid to recombine, Addgene recommends screening multiple colonies by restriction analysis to ensure that the isolated clones contain a full set of 24 MS2 repeats

Plasmid Name: phage-cmv-cfp-24xms2

Record Creation Time: 20220422T222211+0000

Record Last Update: 20260815T081438+0000

Ratings and Alerts

No rating or validation information has been found for phage-cmv-cfp-24xms2.

No alerts have been found for phage-cmv-cfp-24xms2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Lee C, et al. (2025) Optogenetic storage and release of protein and mRNA in live cells and animals. *Nature communications*, 16(1), 6230.

Zhang J, et al. (2024) m5C methylated lncRncr3-MeCP2 interaction restricts miR124a-initiated neurogenesis. *Nature communications*, 15(1), 5136.

Sirois CL, et al. (2024) CGG repeats in the human FMR1 gene regulate mRNA localization and cellular stress in developing neurons. *Cell reports*, 43(6), 114330.

Guo Y, et al. (2022) Long-term imaging of individual mRNA molecules in living cells. *Cell reports methods*, 2(6), 100226.

Cohen B, et al. (2022) Co-transport of the nuclear-encoded Cox7c mRNA with mitochondria along axons occurs through a coding-region-dependent mechanism. *Journal of cell science*, 135(16).

Biswas J, et al. (2021) Protocol for using TRIBE to study RNA-protein interactions and nuclear organization in mammalian cells. *STAR protocols*, 2(3), 100634.

Chen B, et al. (2020) Live cell imaging and proteomic profiling of endogenous NEAT1 lncRNA by CRISPR/Cas9-mediated knock-in. *Protein & cell*, 11(9), 641.

Kim NY, et al. (2020) Optogenetic control of mRNA localization and translation in live cells. *Nature cell biology*, 22(3), 341.

Cawte AD, et al. (2020) Live cell imaging of single RNA molecules with fluorogenic Mango II arrays. *Nature communications*, 11(1), 1283.

Shcherbakova DM, et al. (2016) Bright monomeric near-infrared fluorescent proteins as tags and biosensors for multiscale imaging. *Nature communications*, 7, 12405.

Eades G, et al. (2015) lincRNA-RoR and miR-145 regulate invasion in triple-negative breast cancer via targeting ARF6. *Molecular cancer research : MCR*, 13(2), 330.