

Resource Summary Report

Generated by [dkNET](#) on Aug 17, 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 [dkNET](#) .

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.