Resource Summary Report

Generated by PRECISE-TBI on Sep 4, 2026

EF.CMV.RFP

RRID:Addgene_17619
Type: Plasmid

Proper Citation

RRID:Addgene_17619

Plasmid Information

URL: http://www.addgene.org/17619

Proper Citation: RRID:Addgene_17619

Bacterial Resistance: Ampicillin

Defining Citation: PMID:12788657

Vector Backbone Description: Backbone Size:8220; Vector Backbone:EF.CMV.RFP; Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Comments: In a SIN LV containing the elongation factor 1alpha promoter, we included a second promoter from cytomegalovirus that drives expression of RFP as a reporter. Dual-promoter LVs can coexpress multiple transgenes efficiently in a single target cell. Recombinant LVs were produced by transient transfection of the transducing vector into 293T cells with two packaging vectors: pMD.G, a plasmid expressing the VSV-G envelope gene, and pCMVDeltaR8.91, a plasmid expressing the HIV-1 gag/pol, tat, and rev genes. There is an a->g mutation in this plasmid that abolishes the HpaI site. A 10bp insertion in Addgene sequence corresponding to position 6893, 21bp insertion in Addgene sequence at position 7405, and 11bp deletion in Addgene sequence at position 7544 do not alter function of the plasmid or RFP expression. The uploaded author's map shows an example with GFP cloned downstream of the EF-1a promoter. The vector supplied by Addgene does not contain the GFP.

Plasmid Name: EF.CMV.RFP

Record Creation Time: 20220422T222018+0000

Record Last Update: 20260902T042953+0000

Ratings and Alerts

No rating or validation information has been found for EF.CMV.RFP.

No alerts have been found for EF.CMV.RFP.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 16 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Fathi M, et al. (2026) PALINCODE: Recording cell lineage with ternary palindromic CRISPR bits. bioRxiv : the preprint server for biology.

Dao L, et al. (2024) Modeling blood-brain barrier formation and cerebral cavernous malformations in human PSC-derived organoids. Cell stem cell, 31(6), 818.

Wiedmann L, et al. (2023) HAPLN1 potentiates peritoneal metastasis in pancreatic cancer. Nature communications, 14(1), 2353.

Swaby C, et al. (2023) Decreased fucosylation impacts epithelial integrity and increases risk for COPD. bioRxiv : the preprint server for biology.

Martin S, et al. (2022) Oligodendrocyte differentiation alters tRNA modifications and codon optimality-mediated mRNA decay. Nature communications, 13(1), 5003.

González-Martínez R, et al. (2022) CBP and p300 Jointly Maintain Neural Progenitor Viability but Play Unique Roles in the Differentiation of Neural Lineages. Cells, 11(24).

Grabowska A, et al. (2022) Activation-induced chromatin reorganization in neurons depends on HDAC1 activity. Cell reports, 38(7), 110352.

Lipinski M, et al. (2020) KAT3-dependent acetylation of cell type-specific genes maintains neuronal identity in the adult mouse brain. Nature communications, 11(1), 2588.

Nachmani D, et al. (2019) Germline NPM1 mutations lead to altered rRNA 2'-O-methylation and cause dyskeratosis congenita. Nature genetics, 51(10), 1518.

Peng W, et al. (2019) Functional analysis of the secondary HIV-1 capsid binding site in the host protein cyclophilin A. Retrovirology, 16(1), 10.

Norlin S, et al. (2018) The ATPase activity of Asna1/TRC40 is required for pancreatic progenitor cell survival. Development (Cambridge, England), 145(1).

Offenbacher S, et al. (2018) GWAS for Interleukin-1? levels in gingival crevicular fluid identifies IL37 variants in periodontal inflammation. Nature communications, 9(1), 3686.

Bohnsack JP, et al. (2017) Ethanol Exposure Regulates Gabra1 Expression via Histone Deacetylation at the Promoter in Cultured Cortical Neurons. The Journal of pharmacology and experimental therapeutics, 363(1), 1.

Hildebrand L, et al. (2015) Selective cell targeting and lineage tracing of human induced pluripotent stem cells using recombinant avian retroviruses. Cellular and molecular life sciences : CMLS, 72(23), 4671.

Nachmani D, et al. (2014) RNA-binding proteins regulate the expression of the immune activating ligand MICB. Nature communications, 5, 4186.

Lee SH, et al. (2014) Notch pathway targets proangiogenic regulator Sox17 to restrict angiogenesis. Circulation research, 115(2), 215.