# Resource Summary Report

Generated by SPARC SAWG on Aug 10, 2026

## mCherry-2xCL-YFP-Vpr

RRID:Addgene_105215
Type: Plasmid

### Proper Citation

RRID:Addgene_105215

### Plasmid Information

**URL:** http://www.addgene.org/105215

**Proper Citation:** RRID:Addgene_105215

**Insert Name:** Vpr

**Organism:** HIV-1

**Bacterial Resistance:** Ampicillin

**Defining Citation:** PMID:29046351

**Vector Backbone Description:** Backbone Size:5015; Vector Backbone:pcDNA3.1/Zeo(+); Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

**Comments:** The pMM310-BlamVpr plasmid reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: pMM310(Cat#11444) from Dr. Michael Miller. The DNA sequences encoding for Beta-lactamase (Blam) was replaced with HindIII-mCherry-PC-NotI-PC-YFP-BamHI encoding sequences. mCherry-pc2x-eYFPVpr plasmid reference: Sood C, Francis AC, Desai TM, Melikyan GB.An improved labeling strategy enables automated detection of single-virus fusion and assessment of HIV-1 protease activity in single virions.J Biol Chem. 2017 Oct 18. pii: jbc.M117.818088. doi: 10.1074/jbc.M117.818088. pMM310 plasmid reference: Tobiume M, Lineberger JE, Lundquist CA, Miller MD, and Aiken C. Nef Does Not Affect the Efficiency of Human Immunodeficiency Virus Type 1 Fusion with Target Cells. J. Virology 77(19); 10645-50, 2003. [Abstract]. An in-depth description of a similar system: Cavrois M, De Noronha C, Greene WC. A sensitive and specific enzyme-based assay detecting HIV-1 virion fusion in primary T lymphocytes. Nat Biotechnol. 2002 Nov;20(11):1151-4. Epub 2002 Sep 30. [Abstract]

**Plasmid Name:** mCherry-2xCL-YFP-Vpr

**Record Creation Time:** 20220422T221510+0000

**Record Last Update:** 20260808T080339+0000

## Ratings and Alerts

No rating or validation information has been found for mCherry-2xCL-YFP-Vpr.

No alerts have been found for mCherry-2xCL-YFP-Vpr.

## Data and Source Information

**Source:** Addgene

## Usage and Citation Metrics

We found 2 mentions in open access literature.

**Listed below are recent publications.** The full list is available at SPARC SAWG .

Ravishankar S, et al. (2024) The signature of a T-cell response to KSHV persists across space and time in individuals with epidemic and endemic KS from Uganda. bioRxiv : the preprint server for biology.

Johnson C, et al. (2022) Capturing the start point of the virus-cell interaction with high-speed 3D single-virus tracking. Nature methods, 19(12), 1642.