

Resource Summary Report

Generated by [NIF](#) on Jul 31, 2026

pShuttle-CMV-iRFP

RRID:Addgene_31856

Type: Plasmid

Proper Citation

RRID:Addgene_31856

Plasmid Information

URL: <http://www.addgene.org/31856>

Proper Citation: RRID:Addgene_31856

Insert Name: iRFP

Organism: Rhodopseudomonas palustris

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:21765402](#)

Vector Backbone Description: Backbone Marker:Stratagene; Backbone Size:7384; Vector Backbone:pShuttle-CMV; Vector Types:Mammalian Expression, Adenoviral; Bacterial Resistance:Kanamycin

Comments: For additional protocols on using iRFP in other tissue types please review: Verkhusha. Deep-tissue photoacoustic tomography of a genetically encoded near-infrared fluorescent probe. Angewandte Chemie Int. Ed. 2012, 51: 1448-1451. PubMed: <https://www.ncbi.nlm.nih.gov/pubmed/22213541/> For more information on in vivo imaging, please see: https://www.addgene.org/fluorescent_proteins/in_vivo/

Plasmid Name: pShuttle-CMV-iRFP

Relevant Mutation: T2A, S13L, A92T, V104I, V114I, E161K, Y193K, F198Y, D202T, I203V, Y258F, A283V, K288T and N290Y relative to RpBphP2

Record Creation Time: 20220422T222138+0000

Record Last Update: 20260725T074546+0000

Ratings and Alerts

No rating or validation information has been found for pShuttle-CMV-iRFP.

No alerts have been found for pShuttle-CMV-iRFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Pan Y, et al. (2022) Near-infrared nuclear markers for Drosophila imaging. microPublication biology, 2022.

Wei L, et al. (2021) Bamboo Shark as a Small Animal Model for Single Domain Antibody Production. Frontiers in bioengineering and biotechnology, 9, 792111.

Appelbe OK, et al. (2018) Radiation-enhanced delivery of plasmid DNA to tumors utilizing a novel PEI polyplex. Cancer gene therapy, 25(7-8), 196.

Tchoghandjian A, et al. (2016) Inhibitor of apoptosis protein expression in glioblastomas and their in vitro and in vivo targeting by SMAC mimetic GDC-0152. Cell death & disease, 7(8), e2325.

Stabley DR, et al. (2015) Real-time fluorescence imaging with 20 nm axial resolution. Nature communications, 6, 8307.

Adam RC, et al. (2015) Pioneer factors govern super-enhancer dynamics in stem cell plasticity and lineage choice. Nature, 521(7552), 366.

Jiguet-Jiglaire C, et al. (2014) Noninvasive near-infrared fluorescent protein-based imaging of tumor progression and metastases in deep organs and intraosseous tissues. Journal of biomedical optics, 19(1), 16019.

Fyk-Kolodziej B, et al. (2014) Marking cells with infrared fluorescent proteins to preserve photoresponsiveness in the retina. BioTechniques, 57(5), 245.