

Resource Summary Report

Generated by [NIF](#) on Sep 23, 2026

Cerulean

RRID:Addgene_15214

Type: Plasmid

Proper Citation

RRID:Addgene_15214

Plasmid Information

URL: <http://www.addgene.org/15214>

Proper Citation: RRID:Addgene_15214

Insert Name: monomeric Cerulean

Organism: synthetic

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:14990965](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4000; Vector Backbone:pEGFP-C1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: The EGFP in pEGFP-C1 was replaced with Cerulean.

Plasmid Name: Cerulean

Relevant Mutation: A206K

Record Creation Time: 20220422T221832+0000

Record Last Update: 20260919T091055+0000

Ratings and Alerts

No rating or validation information has been found for Cerulean.

No alerts have been found for Cerulean.

Data and Source Information

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Loftus AEP, et al. (2024) An ILK/STAT3 pathway controls glioblastoma stem cell plasticity. *Developmental cell*, 59(24), 3197.

Nikolaïenko R, et al. (2023) Cysteines 1078 and 2991 cross-linking plays a critical role in redox regulation of cardiac ryanodine receptor (RyR). *Nature communications*, 14(1), 4498.

Brown CN, et al. (2022) A β -induced synaptic impairments require CaMKII activity that is stimulated by indirect signaling events. *iScience*, 25(6), 104368.

Mahn M, et al. (2021) Efficient optogenetic silencing of neurotransmitter release with a mosquito rhodopsin. *Neuron*, 109(10), 1621.

Moch M, et al. (2020) The keratin-desmosome scaffold: pivotal role of desmosomes for keratin network morphogenesis. *Cellular and molecular life sciences : CMLS*, 77(3), 543.

Sharma G, et al. (2019) Rapid selection and identification of functional CD8+ T cell epitopes from large peptide-coding libraries. *Nature communications*, 10(1), 4553.

Serizawa T, et al. (2019) Developmental analyses of mouse embryos and adults using a non-overlapping tracing system for all three germ layers. *Development (Cambridge, England)*, 146(21).

Weir GA, et al. (2017) Using an engineered glutamate-gated chloride channel to silence sensory neurons and treat neuropathic pain at the source. *Brain : a journal of neurology*, 140(10), 2570.

Galat V, et al. (2016) Transgene Reactivation in Induced Pluripotent Stem Cell Derivatives and Reversion to Pluripotency of Induced Pluripotent Stem Cell-Derived Mesenchymal Stem Cells. *Stem cells and development*, 25(14), 1060.

Niu H, et al. (2016) Pathways of retinoid synthesis in mouse macrophages and bone marrow cells. *Journal of leukocyte biology*, 99(6), 797.

Horstick EJ, et al. (2015) Increased functional protein expression using nucleotide sequence features enriched in highly expressed genes in zebrafish. *Nucleic acids research*, 43(7), e48.

Abraham BG, et al. (2014) Fluorescent protein-based FRET sensor for intracellular monitoring of redox status in bacteria at single cell level. *Analytical and bioanalytical chemistry*, 406(28), 7195.

Gurkar AU, et al. (2013) Identification of ROCK1 kinase as a critical regulator of Beclin1-mediated autophagy during metabolic stress. *Nature communications*, 4, 2189.

Steinmeyer JD, et al. (2012) High-throughput single-cell manipulation in brain tissue. *PloS one*, 7(4), e35603.

Dower K, et al. (2011) Development of Vaccinia reporter viruses for rapid, high content analysis of viral function at all stages of gene expression. *Antiviral research*, 91(1), 72.

Tao-Cheng JH, et al. (2010) Activity induced changes in the distribution of Shanks at hippocampal synapses. *Neuroscience*, 168(1), 11.

Huang HH, et al. (2010) Design and characterization of molecular tools for a Synthetic Biology approach towards developing cyanobacterial biotechnology. *Nucleic acids research*, 38(8), 2577.

Issaeva I, et al. (2010) Generation of double-labeled reporter cell lines for studying co-dynamics of endogenous proteins in individual human cells. *PloS one*, 5(10), e13524.