

Resource Summary Report

Generated by [RRID](#) on Aug 28, 2026

[sgOpti](#)

RRID:Addgene_85681

Type: Plasmid

Proper Citation

RRID:Addgene_85681

Plasmid Information

URL: <http://www.addgene.org/85681>

Proper Citation: RRID:Addgene_85681

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:27708057](#)

Vector Backbone Description: Backbone Marker:Eric Lander and David Sabatini (Addgene #71409); Backbone Size:7000; Vector Backbone:pLenti-sgRNA; Vector Types:Mammalian Expression, Lentiviral, CRISPR; Bacterial Resistance:Ampicillin

Plasmid Name: sgOpti

Record Creation Time: 20220422T222551+0000

Record Last Update: 20260815T082130+0000

Ratings and Alerts

No rating or validation information has been found for sgOpti.

No alerts have been found for sgOpti.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 29 mentions in open access literature.

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

Vu L, et al. (2026) ULK1 drives NDP52-mediated selective autophagic degradation of MHC-I to promote immune evasion in HPV-positive head and neck cancer. bioRxiv : the preprint server for biology.

Rapp AW, et al. (2026) Trans-Kingdom dsRNA Sensing: *Aspergillus fumigatus* Mycovirus Activates MDA5/MAVS Immunity and Limits Allergic Bronchopulmonary Aspergillosis. bioRxiv : the preprint server for biology.

Kim SJ, et al. (2026) Synaptotagmin 1 and Synaptotagmin 7 promote MR1-mediated presentation of *Mycobacterium tuberculosis* antigens. eLife, 14.

Hossain MJ, et al. (2025) Bacterial pathogens hijack host cell peroxisomes for replication vacuole expansion and integrity. Science advances, 11(18), eadr8005.

Marescal O, et al. (2025) 19S proteasome loss causes monopolar spindles through ubiquitin-independent KIF11 degradation. bioRxiv : the preprint server for biology.

Marescal O, et al. (2025) 19S proteasome loss regulates mitotic spindle assembly through a ubiquitin-independent degradation mechanism. Cell reports, 44(8), 116041.

Kim SJ, et al. (2025) Synaptotagmin 1 and Synaptotagmin 7 promote MR1-mediated presentation of *Mycobacterium tuberculosis* antigens. bioRxiv : the preprint server for biology.

Lara B, et al. (2025) The AhR regulates IFN-induced immune checkpoints in lung cancer cells through HNRNPH1, an RNA-binding protein, and INCR1, a novel long non-coding RNA. The Journal of biological chemistry, 301(7), 110316.

Martyn GE, et al. (2025) Rewriting regulatory DNA to dissect and reprogram gene expression. Cell, 188(12), 3349.

Wang Q, et al. (2025) Native stem cell transcriptional circuits define cardinal features of high-risk leukemia. The Journal of experimental medicine, 222(4).

Iyer AR, et al. (2025) Selective Enhancer Dependencies in MYC-Intact and MYC-Rearranged Germinal Center B-cell Diffuse Large B-cell Lymphoma. Blood cancer discovery, 6(3), 233.

Bhattacharai B, et al. (2025) Circadian circuits control plasticity of group 3 innate lymphoid cells by sustaining epigenetic configuration of ROR γ t. Nature immunology, 26(9), 1527.

Thomas SM, et al. (2024) TGF β primes alveolar-like macrophages to induce type I IFN following TLR2 activation. bioRxiv : the preprint server for biology.

Snyder M, et al. (2024) The Aryl Hydrocarbon Receptor Controls IFN γ -Induced Immune Checkpoints PD-L1 and IDO via the JAK/STAT Pathway in Lung Adenocarcinoma. bioRxiv : the preprint server for biology.

Iyer AR, et al. (2023) Selective Enhancer Dependencies in MYC -Intact and MYC -Rearranged Germinal Center B-cell Diffuse Large B-cell Lymphoma. bioRxiv : the preprint server for biology.

Glover RC, et al. (2023) A genome-wide screen in macrophages identifies PTEN as required for myeloid restriction of *Listeria monocytogenes* infection. *PLoS pathogens*, 19(5), e1011058.

Tsang MJ, et al. (2023) Alternative CDC20 translational isoforms tune mitotic arrest duration. *Nature*, 617(7959), 154.

Gilliland HN, et al. (2023) A Genome-Wide Screen in Macrophages Defines Host Genes Regulating the Uptake of *Mycobacterium abscessus*. *mSphere*, 8(2), e0066322.

Martyn GE, et al. (2023) Rewriting regulatory DNA to dissect and reprogram gene expression. *bioRxiv* : the preprint server for biology.

Barnett KR, et al. (2023) Epigenomic mapping reveals distinct B cell acute lymphoblastic leukemia chromatin architectures and regulators. *Cell genomics*, 3(12), 100442.