

# Resource Summary Report

Generated by [dkNET](#) on Aug 22, 2026

## sgRNA(MS2) cloning backbone

RRID:Addgene\_61424

Type: Plasmid

### Proper Citation

RRID:Addgene\_61424

### Plasmid Information

**URL:** <http://www.addgene.org/61424>

**Proper Citation:** RRID:Addgene\_61424

**Bacterial Resistance:** Ampicillin

**Defining Citation:** [PMID:25494202](https://pubmed.ncbi.nlm.nih.gov/25494202/)

**Vector Backbone Description:** Vector Backbone:pUC19; Vector Types:Mammalian Expression, CRISPR; Bacterial Resistance:Ampicillin

**Comments:** For additional information, protocols and an activator sgRNA design tool, visit our website: <http://sam.genome-engineering.org/>

**Plasmid Name:** sgRNA(MS2) cloning backbone

**Record Creation Time:** 20220422T222352+0000

**Record Last Update:** 20260815T081742+0000

### Ratings and Alerts

No rating or validation information has been found for sgRNA(MS2) cloning backbone.

No alerts have been found for sgRNA(MS2) cloning backbone.

### Data and Source Information

**Source:** [Addgene](#)

### Usage and Citation Metrics

We found 65 mentions in open access literature.

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

Chopra A, et al. (2025) Genetic analysis of cis-enhancers associated with bone mineral density and periodontitis in the gene SOST. PloS one, 20(3), e0319259.

Siqueira E, et al. (2025) NEAT1-mediated regulation of proteostasis and mRNA localization impacts autophagy dysregulation in Rett syndrome. Nucleic acids research, 53(4).

Zhang L, et al. (2025) Near-infrared light activatable chemically induced CRISPR system. Light, science & applications, 14(1), 229.

Su-Tobon Q, et al. (2025) CRISPR-Hybrid: A CRISPR-Mediated Intracellular Directed Evolution Platform for RNA Aptamers. Nature communications, 16(1), 595.

Agueda-Oyarzabal M, et al. (2025) Transcriptomic signatures of cold acclimated adipocytes reveal CXCL12 as a Brown autocrine and paracrine chemokine. Molecular metabolism, 93, 102102.

Wei R, et al. (2025) A long noncoding RNA with enhancer-like function in pig zygotic genome activation. Journal of molecular cell biology, 17(1).

Kuellmer K, et al. (2025) Preadipocyte Uncoupling Protein 1 Expression Invoked by Fibroblast Growth Factors Imprints on Post-Differentiation White and Brown Adipocyte Phenotype. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 39(20), e71109.

Chou CH, et al. (2024) The upregulation of VGF enhances the progression of oral squamous carcinoma. Cancer cell international, 24(1), 115.

Ma Y, et al. (2024) An Integrative Transcriptome Subtraction Strategy to Identify Human lncRNAs That Specifically Play a Role in Activation of Human Hepatic Stellate Cells. Non-coding RNA, 10(3).

Liu YC, et al. (2024) The disruption of NEAT1-miR-125b-5p-SLC1A5 cascade defines the oncogenicity and differential immune profile in head and neck squamous cell carcinoma. Cell death discovery, 10(1), 392.

Jin Q, et al. (2023) Doxycycline-dependent Cas9-expressing pig resources for conditional in vivo gene nullification and activation. Genome biology, 24(1), 8.

Engelhard CA, et al. (2023) Nanopore sequencing unveils the complexity of the cold-activated murine brown adipose tissue transcriptome. iScience, 26(8), 107190.

Kumar P, et al. (2023) Functional mapping of microRNA promoters with dCas9 fused to transcriptional regulators. Frontiers in genetics, 14, 1147222.

Su-Tobon Q, et al. (2023) CRISPR-Hybrid: A CRISPR-Mediated Intracellular Directed Evolution Platform for RNA Aptamers. bioRxiv : the preprint server for biology.

Ali T, et al. (2023) Fendrr synergizes with Wnt signalling to regulate fibrosis related genes during lung development via its RNA:dsDNA triplex element. *Nucleic acids research*, 51(12), 6227.

Sgro A, et al. (2023) Epigenetic reactivation of tumor suppressor genes with CRISPRa technologies as precision therapy for hepatocellular carcinoma. *Clinical epigenetics*, 15(1), 73.

Nemir M, et al. (2022) Inhibition of the NOTCH1 Pathway in the Stressed Heart Limits Fibrosis and Promotes Recruitment of Non-Myocyte Cells into the Cardiomyocyte Fate. *Journal of cardiovascular development and disease*, 9(4).

Oo JA, et al. (2022) Long non-coding RNA PCAT19 safeguards DNA in quiescent endothelial cells by preventing uncontrolled phosphorylation of RPA2. *Cell reports*, 41(7), 111670.

Wang J, et al. (2022) A Ctnnb1 enhancer regulates neocortical neurogenesis by controlling the abundance of intermediate progenitors. *Cell discovery*, 8(1), 74.

Engelhard CA, et al. (2022) Comprehensive Transcriptional Profiling and Mouse Phenotyping Reveals Dispensable Role for Adipose Tissue Selective Long Noncoding RNA Gm15551. *Non-coding RNA*, 8(3).