addgene

A better way to share plasmids

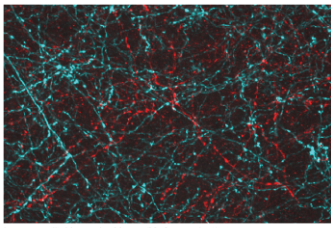


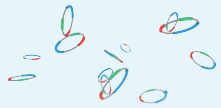
Image credit: Yasunobu Murata/McGovern Institute

Find Plasmids for Your Research

Over 40,000 plasmids:

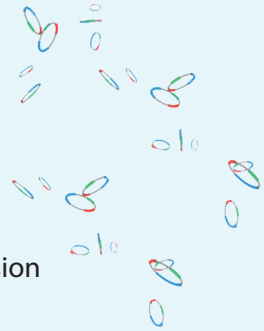
Expression Plasmids...

- Oncogenes/tumor suppressors
- Cell death genes
- Validated shRNAs
- Cell signaling factors



Tool Plasmids...

- Viral packaging
- Biosensors
- Genome engineering
- iPSC generation
- Optogenetics
- Tetracycline inducible expression



Empty Backbones...

- Epitope tagging
- Fluorescent protein fusions
- Species-specific expression
- Viral expression

CRISPR Plasmids at Addgene

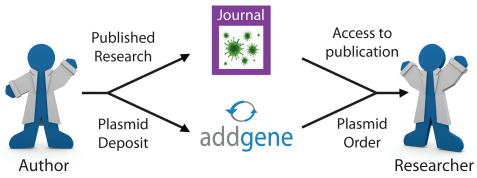
CRISPR genome editing is a popular technology that uses a short guide gRNA to guide a nuclease to a DNA target. Advantages of the CRISPR technology over other genome editing methods include ease of implementation, speed, cost, and efficiency.

Addgene has assembled a collection of plasmids, kits, and resources from leading CRISPR labs to get you started using CRISPR/Cas9 technology in your own lab.

Order Plasmids

1. Visit www.addgene.org and browse for your favorite gene, lab, publication, or species
2. Submit your order online
3. Typical orders are shipped within two business days of MTA approval

How Addgene Works



Addgene helps researchers share their plasmids worldwide. Over 2,200 depositing labs from 515 institutions in 35 countries have helped us assemble a high-quality library of plasmids for use in research and discovery.

Count on Quality: Addgene conducts quality control on all available plasmids

Stay Organized: Access cloning information for all Addgene plasmids online

Save Time: No need to create every plasmid for your research

Get Help: Addgene's support team answers questions about your plasmid orders

www.addgene.org

Addgene is a nonprofit plasmid repository that stores, archives, and distributes plasmids to academic scientists around the world

For questions about plasmids, shipping, or ordering, please contact help@addgene.org.

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Addgene's Plasmid Collection

Browse Addgene's plasmid library by plasmid collection, expression system, popular plasmids, depositing scientist, species of gene, and vector type. Visit www.addgene.org to find resources and plasmids for your research.

Plasmid Collection		Sample Collection Feature and Description
CRISPR/Cas9 Tools	Cut	Wild type Cas9 efficiently generates double strand breaks (DSBs) at sequences homologous to co-expressed gRNA.
	Nick	A mutated "nickase" version of Cas9 generates a single-strand DNA break, instead of a double-strand break.
	Interfere	Catalytically inactive dCas9 knocks down gene expression by interfering with transcription.
	Activate	Catalytically inactive dCas9 fused to an activator peptide can activate or increase gene expression.
	Empty gRNA Vectors	Select a gRNA plasmid based on a variety of factors, such as selectable marker or cloning method.
	Tag	Find the tools for tagging your endogenous protein of interest.
Fluorescent Proteins	Empty Backbones	Fusing your protein of interest to a fluorescent protein allows you to understand its localization and/or function.
	FRET	FRET is often used to study protein-protein interactions and conformational changes within a protein.
	Biosensors	Genetically encoded biosensors allow you to monitor small biomolecules or physiological intracellular processes.
	Subcellular Localization	Use these tools to assess whether your protein is targeted to the same structures as well-characterized proteins.
	In Vivo Imaging	*In vivo* imaging is used to study individual plasmids or protein-protein interactions in organs and whole mammals.
	Davidson FPs	Michael Davidson from Florida State University has contributed a collection of ORFs and empty backbones.
Optogenetics Tools	Actuators	Microbial opsins and tools for protein localization, to control gene expression and neuronal activity, and more.
	Sensors	Genetically encoded biosensors to monitor and measure fluctuations in molecular signals.
Empty Backbones	Species-specific Expression	Drive gene expression with plasmids that will be functional in your host organism.
	Epitope Tag or Fusion Protein	Understand the function of your favorite gene using an antibody against a fusion tag.
	Selectable Markers	Plasmids with markers so that you can find or select only the cells that received the plasmid.
	Viral Expression	Viral packaging and expression vectors to create stable cell lines.
	shRNA Expression	For gene silencing experiments.
Luciferase Plasmids		Robust signal for use as a reporter gene. Empty backbones and premade reporters.
Stem Cell Plasmids	for Reprogramming	Return fully-differentiated adult somatic cells to a pluripotent stem cell state (iPSCs).
	for Differentiation	Directly differentiate iPSCs into specific somatic stem cells or fully differentiated cell types.
	for Transdifferentiation	Directly differentiate one differentiated somatic cell into another.
Synthetic Biology		Cloning and genomic tools for studying metabolism, networks, sensing, signaling, and gene regulation.
Expression Plasmids		ORFs for human pathways and ORFs tagged with a variety of fluorescent proteins.

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