

Guide to Depositing Synthetic Biology Parts

When depositing your standard parts with Addgene, we encourage you to include some additional information which will make it easier for requesting scientists to use them in future experiments. You can submit either published or unpublished plasmids. Addgene can hold your plasmids until publication. Email deposit@addgene.org for help or with questions.

Before getting started, it may be helpful to gather the following:

- The assembly standard that your part is compatible with.
- The type of part you are depositing (e.g. promoter, terminator, CDS, etc).
- The part number(s) (if depositing at or using parts from a parts repository such as iGEM or JBEI).
- Any relevant measurement data for the part.

This document will help you enter your data so that it will be searchable and readily available for those requesting your parts. See <https://www.addgene.org/deposit/> for more general deposit instructions.



1. Start the Deposit

Go to <https://www.addgene.org/deposit/start-deposit/>. If you would like us to hold your plasmids offline until publication, write “HOLD” before your description. In this example we will deposit some unpublished BioBrick Promoters.



Start Depositing Plasmids to Addgene

Thank you for depositing plasmids at Addgene! The first step is to add an article (published or unpublished) to your account. Then you will add plasmids to the article. For more information, [download instructions](#).

 <h4>Add Plasmids from a Published Article</h4> <ul style="list-style-type: none">• Addgene will provide links from your plasmids to this article• Scientists will be asked to cite this article in future publications• If your paper does not have a PubMed ID yet, please use the pre-publication submission process to the right• Please search below as you would search PubMed <p>Search PubMed: <input type="text"/> <input type="submit" value="Q"/></p>	 <h4>Add Pre-Publication or Unpublished Plasmids</h4> <ul style="list-style-type: none">• Addgene encourages submitting pre-published and unpublished plasmids• To hold plasmids for publication, enter HOLD + description: (Ex. <i>HOLD</i>--Smith lab MAPK plasmids)• For any other plasmids, enter a descriptive title only: (Ex. Smith lab MAPK plasmids)• We can easily update the article information when it becomes available <p>Enter plasmid description: <input type="text" value="BioBrick Promoters"/> <input data-bbox="1360 1772 1386 1793" type="submit" value="+"/></p>
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Enter Publication or Description

2. Enter the Name, Type, and Purpose for Each Plasmid

For each plasmid you are depositing, enter the following information:

- The plasmid name in the format pBACKBONE-INSERT. In this example the backbone is the standard iGEM backbone pSB1c3 and the insert name is the iGEM part number.
- Select the plasmid type, which is one insert for a single part (would be multiple inserts for multiple parts in series).
- Give a useful description in the purpose field. This is where you can enter the assembly standard, part type, part number, and a brief description of measurement data.
- Once you have entered the data for first plasmid, click “Add,” and enter the next plasmid in your deposit.

Note: More information is always better, so don't worry about entering the same information in multiple places.

[My Articles](#) / [Plasmids Associated with BioBrick Promoters](#)

BioBrick Promoters

(unpublished article)

Add Plasmids

Instructions: Enter plasmid name, plasmid type and a one sentence description of plasmid use and then click Add button. Click the “Enter Data” or “Finished/Update” button to enter or modify data. Please include only those plasmids that have been constructed in your lab. Your progress is currently saved to your Addgene account and you can return at anytime to edit or complete your deposit. Be aware that you will no longer be able to modify plasmid information once you have requested a deposit kit.

Enter Name, Type, and Purpose

Name Type ⓘ

Description/Experimental Purpose (200 character limit)

Status	Plasmid	Description/Experimental Purpose	ID	
<input type="button" value="Enter Data"/>	pSB1c3-BBa_J12345 [Edit]	BioBrick Promoter BBa_12345, 50% activity (see attachment) [Edit]	55757	<input type="button" value="Delete"/>

[Submit plasmids from a new article](#)

[I am done entering data. Request Deposit Kit.](#)

If you want to remove this article, you must first delete all un-submitted plasmids.

3. Enter the Data for Each Plasmid

Click on “Enter Data” for your first plasmid (see above). This will take you through the various data fields we collect for each plasmid. For each page of the deposit process (shown below), we have highlighted the fields which are most important for depositing SynBio parts.

My Articles / BioBrick Promoters / pSB1c3-BBa_J12345

pSB1c3-BBa_J12345: Gene and Insert

Sequences and Maps | **Gene and Insert** | Cloning Information | Growth and Distribution | Verify

Copy gene and insert from:

New Gene/Insert

Gene/Insert: **Enter Part # (if applicable)**

Alternative names:

Insert size (bp):

Species of gene (check all that apply):

<input type="checkbox"/> H. sapiens (human)	<input type="checkbox"/> D. melanogaster (fly)
<input type="checkbox"/> M. musculus (mouse)	<input type="checkbox"/> C. elegans (nematode)
<input type="checkbox"/> R. norvegicus (rat)	<input type="checkbox"/> S. cerevisiae (budding yeast)
<input type="checkbox"/> G. gallus (chicken)	<input type="checkbox"/> S. pombe (fission yeast)
<input type="checkbox"/> B. taurus (bovine)	<input type="checkbox"/> A. thaliana (mustard weed)
<input type="checkbox"/> X. laevis (frog)	<input checked="" type="checkbox"/> Synthetic
<input type="checkbox"/> D. rerio (zebrafish)	<input type="checkbox"/> Other

List Engineered Parts as “Synthetic”

Species, if other:

GenBank ID:

GenBank ID:

Entrez Gene:

- TP53 (*Homo sapiens*)
- APOE (*Homo sapiens*)
- TNF (*Homo sapiens*)
- EGFR (*Homo sapiens*)
- VEGFA (*Homo sapiens*)
- MTHFR (*Homo sapiens*)
- IL6 (*Homo sapiens*)
- Trp53 (*Mus musculus*)
- TGFBI (*Homo sapiens*)
- ACE (*Homo sapiens*)
- ESR1 (*Homo sapiens*)
- APP (*Homo sapiens*)
- HLA-DRB1 (*Homo sapiens*)
- w (*Drosophila melanogaster*)
- SLC6A4 (*Homo sapiens*)
- UBC (*Homo sapiens*)
- IL10 (*Homo sapiens*)
- BRCA1 (*Homo sapiens*)
- Apoe (*Mus musculus*)
- Tnf (*Mus musculus*)

Relevant mutations/deletions:

Fusion proteins or tags:

Terminal:

Delete:

[Add another fusion protein or tag](#)

Need Help? Contact Us!

Email: help@addgene.org

US Phone:
+1 617-225-9000
(9:00 am to 5:00 pm EST Mon.-Fri.)

UK Phone:
+44 (0) 208-943-7459
(9:00 am to 5:00 pm GMT Mon.-Fri.)

pSB1c3-BBa_J12345: Cloning

Sequences and Maps → Gene and Insert → **Cloning Information** → Growth and Distribution → Verify

Copy cloning information from:

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Vector Backbone Information

Vector Backbone:

Backbone manufacturer:

Backbone size w/o insert (bp):

Total Vector Size (bp):

Modifications to backbone:

Vector type (check all that apply):

<input type="checkbox"/> Mammalian Expression	<input type="checkbox"/> AAV
<input type="checkbox"/> Bacterial Expression	<input type="checkbox"/> RNAi
<input type="checkbox"/> Yeast Expression	<input type="checkbox"/> Cre/Lox
<input type="checkbox"/> Worm Expression	<input type="checkbox"/> CRISPR
<input type="checkbox"/> Insect Expression	<input type="checkbox"/> TALEN
<input type="checkbox"/> Plant Expression	<input type="checkbox"/> Luciferase
<input type="checkbox"/> Mouse Targeting	<input checked="" type="checkbox"/> Synthetic Biology
<input type="checkbox"/> Lentiviral	<input type="checkbox"/> Other
<input type="checkbox"/> Retroviral	<input type="checkbox"/> Unspecified
<input type="checkbox"/> Adenoviral	

Vector type, if other:

Vector Type is "Synthetic Biology"

Cloning Information

Cloning Information for Insert: BBa_J12345

Promoter:

Cloning method:

5' Cloning Site:

5' Cloning site destroyed?

3' Cloning Site:

3' Cloning site destroyed?

5' Sequencing Primer:

3' Sequencing Primer:

Enter Assembly Standard Prefix/Suffix in Place of Restriction Enzymes (if applicable)

pSB1c3-BBa_J12345: Growth and Distribution

Sequences and Maps → Gene and Insert → Cloning Information → **Growth and Distribution** → Verify ✓

Copy growth and distribution from:

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Growth and Distribution

Bacterial resistance:

Is this plasmid high or low copy?

Growth strain:

Growth temperature:

Additional growing instructions:

Selectable marker (non-bacterial)

<input type="checkbox"/> Neomycin	<input type="checkbox"/> TRP1
<input type="checkbox"/> Puromycin	<input type="checkbox"/> LEU2
<input type="checkbox"/> Hygromycin	<input type="checkbox"/> URA3
<input type="checkbox"/> Zeocin	<input type="checkbox"/> HIS3
<input type="checkbox"/> Blasticidin	<input type="checkbox"/> Basta
<input type="checkbox"/> Gentamicin	<input type="checkbox"/> Other

Selectable marker, if other:

When expressed in bacteria, will plasmid produce anything known to be hazardous to humans or animals?

Are there any restrictions or other obligations related to this material that could affect Addgene's distribution to academic labs?

If YES, please explain:

If you did not originally clone this gene, please list from whom and where you received it.

Comments:

Notes or additional article references. These comments will appear publicly on Addgene's website.

Use Comments Field to Convey Other Important Information for Use of Your Part