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 You can submit either published or unpublished plasmids.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 In this example we will deposit some unpublished BioBrick Promoters.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](https://www.addgene.org/deposit/start-deposit/)

Enter Publication or Description

[Search Pubmed: ](https://www.addgene.org/deposit/start-deposit/)

[Enter plasmid description: BioBrick Promoters](https://www.addgene.org/deposit/start-deposit/)
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.
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.
**Vector Backbone Information**

- **Vector Backbone:** pSB1c3
- **Backbone manufacturer:** IGEM
- **Backbone size (bp):** 2070
- **Total Vector Size (bp):** 3570
- **Modifications to backbone:**
  - Mammalian Expression
  - Bacterial Expression
  - Yeast Expression
  - Worm Expression
  - Insect Expression
  - Plant Expression
  - Mouse Targeting
  - Lentiviral
  - Adenoviral

**Cloning Information**

- **Promoter:** None
- **Cloning method:** Restriction Enzyme
- **5' Cloning Site:** BioBrick Prefix
- **3' Cloning Site:** BioBrick Suffix
- **5' Sequencing Primer:** pSBforEco
- **3' Sequencing Primer:** L4440

- **Vector Type is “Synthetic Biology”**

- **Enter Assembly Standard Prefix/Suffix in Place of Restriction Enzymes (if applicable)**
### Growth and Distribution

**Bacterial resistance:** Chloramphenicol

**Is this plasmid high or low copy?** High Copy

**Growth strain:** ΔrbsDelta

**Growth temperature:** 37°C

**Additional growing instructions:**

- Neomycin
- Puromycin
- Hygromycin
- Zeocin
- Blasticidin
- Gentamicin

**Selectable marker (nonsbacrial):**

- TRP1
- LEU2
- URA3
- HIS3
- Basta
- Other

**Selectable marker, if other:**

- Yes

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

- No

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

- Yes

If YES, please explain:

- Promoter strength measured against control plasmid pSB1c3-BBa_1000000
  (Addgene Biocat # 99999)

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