

Genome Cart

IMG users can save genomes of interest to **Genome Cart** for further studies. There are many ways to save genomes into Genome Cart; for example,

- Use **Genome Search** to find genomes of interests to add to **Genome Cart**;
- Find genomes of interest during browsing;
- Find genomes of interest using metadata category search;
- Load previously saved genomes of interest in a **Workspace Genome Set**.

After a user adds some genes into Genome Cart, genomes will be listed in a table format as shown in Figure 1:

Genome Cart

Only a maximum of 20000 genomes can be in cart.

6 genome(s) in cart

Genomes in Cart Upload & Export & Save

[Group Genome Cart by Phyla](#)

hint: Scaffolds will not be added into cart for very large genomes.
Only scaffolds (assembled data only) of selected MER-FS genomes can be added into cart.

Filter column: Domain Filter text ?

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All

Select	Domain	Status	Study Name	Genome Name / Sample Name	Sequencing Center	IMG Genome ID	Genome Size * assembled	Gene Count * assembled
<input type="checkbox"/>	Bacteria	Finished	Chlorobia, 8 species	Chlorobium phaeobacteroides DSM 266	DOE Joint Genome Institute (JGI)	639633020	3133902	2805
<input type="checkbox"/>	Bacteria	Permanent Draft	Chlorobia, 8 species	Chlorobium ferrooxidans DSM 13031	DOE Joint Genome Institute (JGI)	638341060	2538957	2208
<input type="checkbox"/>	Bacteria	Finished	Chlorobium chlorochromatii CaD3	Chlorobium chlorochromatii CaD3	DOE Joint Genome Institute (JGI)	637000072	2572079	2100
<input type="checkbox"/>	Bacteria	Finished	Chlorobia, 8 species	Chlorobium phaeobacteroides BS1	DOE Joint Genome Institute (JGI)	642555122	2736403	2611

Figure 1. Genome Cart.

Genomes in Cart

The first tab **Genomes in Cart** shows all genomes that have been added to the Genome Cart. Users can select up to 20,000 genomes to add to the cart. The default list shows the following fields:

- Domain: domain of the genome, e.g., Bacteria;
- Status: sequencing status;
- Study Name: the name of the study this genome belongs to;

- **Toggle Selected:** Un-select any preselected genomes and select all genomes that have not been selected previously.
- **Select All:** Select all genomes in the cart.
- **Clear All:** Un-select all genomes in the cart.
- **Remove Selected:** Remove all selected genomes from the cart.

Upload & Export & Save

This tab includes 3 functions: **Upload Genome Cart**, **Export Genomes** and **Save Genomes to My Workspace**.

The screenshot displays the 'Genome Cart' interface with three main sections:

- Upload Genome Cart (i):** This section contains instructions for uploading genome data. It states that the Genome Cart is used for genomes already in IMG and that previously exported IMG genomes or those saved as a genome set to the workspace can be uploaded. It provides a link to the submission site for private genomes. Below the text, it offers two options: 'Upload from File' (with a 'Browse...' button and 'No file selected.' text) and 'Upload from Workspace'.
- Export Genomes (ii):** This section allows users to select genomes from the cart to export. It includes an 'Export Genomes' button.
- Save Genomes to My Workspace (iii):** This section provides options for saving selected genomes. It includes a hint box stating that large datasets may cause timeouts. Below the hint, it offers three options: 'Save to File name' (with an input field), 'Append to the following genome set', and 'Replacing the following genome set' (with a dropdown menu showing '10_pfam_genomes'). A 'Save Selected to Workspace' button is located at the bottom.

Figure 3. Genome Cart: Upload & Export & Save.

Upload Genome Cart

Users can either upload genomes from a tab-delimited file or from Workspace Genome Set (Figure 3(i)). If a user wishes to select the **Upload from File** option, then the selected file must have a column header 'taxon_oid'. If the user is not sure what the file format should be, he/she can use the **Export Genomes** function described below to obtain an example file.

Clicking the **Upload from Workspace** button will lead to the Workspace Genome Set page for genome set selection.

Export Genomes

Users can export basic genome information in tab-delimited format (see Figure 3(ii)). Genome information in tab-delimited format can be saved for future uploading.

Save Genomes to My Workspace

Users can also save selected genomes in the cart to a Workspace Genome Set. The result can be saved to a new genome set, appended to an existing genome set, or replacing an existing genome set (see Figure 3(iii)).