

Task 1: Navigate to Bionano Access, and Log in

Task 2: QC GM11428 Assembly. How do the following look:

- Effective coverage of reference (X)
- Genome Map N50s

The screenshot shows the Bionano Genomics Access web interface. At the top, the logo "bionano GENOMICS" is on the left, and the word "Access" is in the center. On the right, there are navigation icons including a home icon, a right arrow, a trash can, a question mark, a user profile, a notification bell with a red "4", and a hamburger menu. Below the header, a breadcrumb trail reads "Home > Projects > Structural Variation Training". On the right side of this bar, it says "Bionano Development | Administrator".

Below the breadcrumb, there is a horizontal menu with buttons: "Import", "Remove", "Copy", "Edit", "Jobs", "Samples", and "Reset".

The main content area features a table with the following columns: "Name ↑", "Sample", "Tag", "Type", and "Created". The table contains two rows:

Name ↑	Sample	Tag	Type	Created
GM11428_assembled	GM11428		De Novo Assembly	09/03/2019
GM11428_raw	GM11428		Molecules	09/03/2019

Below the table is a pagination bar with navigation icons and the text "1 - 2 of 2 items". A red arrow points from the text "De Novo Assembly Object" to the "De Novo Assembly" row in the table.

On the right side, there are two panels. The top panel, titled "De Novo Assembly Details", contains the following information:

- Name: GM11428_assembled
- Sample: GM11428
- Reference: hg19_DLE1_0kb_Olabels
- Description: <https://bionanogenomics.com/wp-content/uploads/2017/03/30255-Bionano-Access-Assembly-Report-Guidelines.pdf>
- Created: 09/03/2019
- Operation: DLE-1 De Novo Assembly
- Status: Complete
- User: Bionano Development
- Job ID: 4

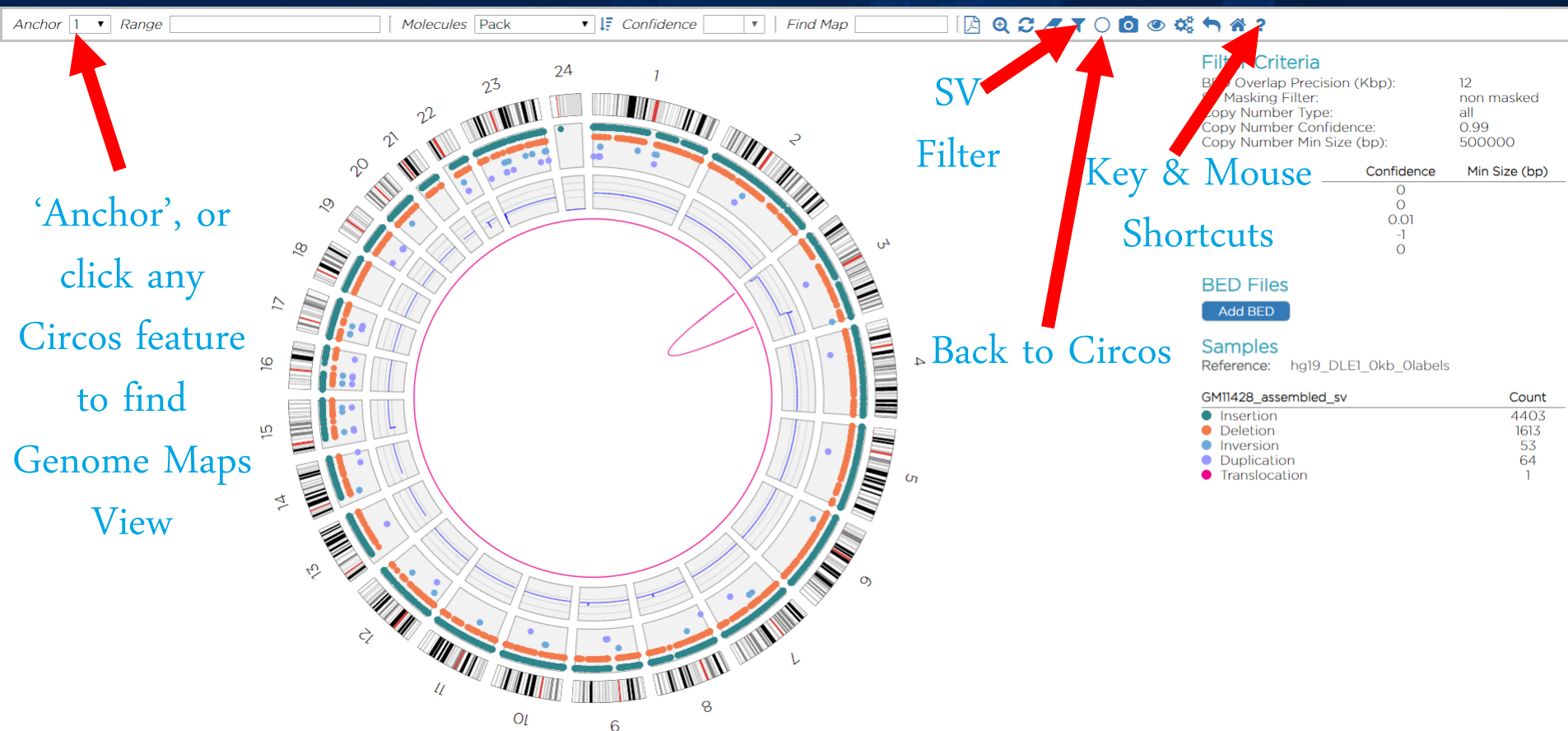
The bottom panel, titled "Options", contains the following links:

- De Novo Assembly Report
- Molecules to Maps
- Maps to Reference with SV
- Maps to Reference
- Download De Novo Assembly
- Download VCF file

A red arrow points from the text "Assembly Report" to the "De Novo Assembly Report" link in the Options panel.

<https://bionanogenomics.com/wp-content/uploads/2017/03/30255-Bionano-Access-Assembly-Report-Guidelines.pdf>

Task 3: Navigate GM11428 Assembly Result 'Maps to Reference with SV'



- ## Task 4: Manipulate SV Filters-
- Insertions and Deletions $\geq 10\text{kb}$
 - Remove SV Masking Filter

Filter Settings

Filter by SV TypeGeneral SV FiltersCopy Number Variant Filters

Show	SV Type	SV Confidence ⓘ	SV Minimum Size (bp)
<input checked="" type="checkbox"/>	Insertion	Recommended ▾	<input type="text"/>
<input checked="" type="checkbox"/>	Deletion	Recommended ▾	<input type="text"/>
<input checked="" type="checkbox"/>	Inversion	Recommended ▾	<input type="text"/>
<input checked="" type="checkbox"/>	Duplication	Recommended ▾	<input type="text"/>
<input checked="" type="checkbox"/>	Translocation	Recommended ▾	<input type="text"/>

Reset FilterApplyCancel

Filter Settings

Filter by SV TypeGeneral SV FiltersCopy Number Variant Filters

Chromosomes to Display on Circos Plot:

☒ All chromosomes
☐ Only chromosomes that have structural variants
☐ Only chromosomes from this range:

SV BED Overlap Precision (Kbp):

SV Masking Filter:

Reset FilterApplyCancel

Task 5: Characterize Chromosome 3

