

# Instructions to Load Raw Intensity Data (\*.idat) Files into GenomeStudio

**Step1.** Download the comma-delimited text (Lab\_Ret\_ACL\_GenomeStudio\_Sample\_Sheet.csv) Sample Sheet from Dryad

**Step2.** Download all raw intensity data (\*.idat) files from Dryad into one folder (Data Repository)

**Step3.** Download the Manifest File for the CanineHD BeadChip desired CanFam annotation from Illumina's website into one folder (Manifest Repository)

[https://support.illumina.com/downloads/caninehd\\_product\\_files.html](https://support.illumina.com/downloads/caninehd_product_files.html)

CanineHD\_A.bpm was used for this analysis

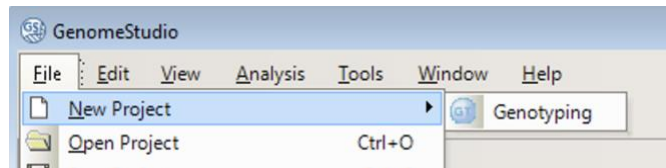
\*\*If you are using a different CanineHD BeadChip Manifest File. The header of the Sample Sheet needs to be changed in the two sections highlighted below.\*\*

[Header]	
Investigator Name	GenomeStudio User
Project Name	Univ_Wis_Vet_Med
Experiment Name	274_ACL_Lab_Ret
Date	
[Manifests]	
A	CanineHD_A

**Step4.** Download GenomeStudio Software from Illumina's website

[https://support.illumina.com/array/array\\_software/genomestudio/downloads.html](https://support.illumina.com/array/array_software/genomestudio/downloads.html)

**Step5.** Start GenomeStudio and go to File -> New Project -> Genotyping



This will launch the GenomeStudio Project Wizard



Click Next to advance

**Step6.** Choose a project name and the location (Project Repository) you want the project saved

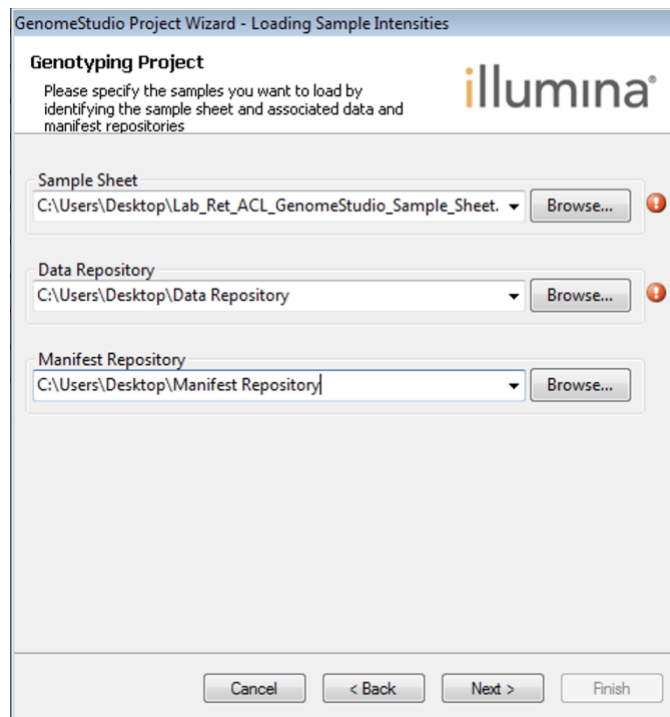
The screenshot shows the 'GenomeStudio Project Wizard - Project Location' dialog box. The title bar reads 'GenomeStudio Project Wizard - Project Location'. The main heading is 'Genotyping Project' with the subtext 'Please specify the name and location for your project' and the Illumina logo. The 'Projects Repository' section has a dropdown menu showing 'C:\Users\location\_to\_save\_project' and a 'Browse...' button. The 'Project Name' section has two radio buttons: 'Create' (selected) and 'Select from LIMS'. A text input field next to 'Create' contains '274\_ACL\_Labrador'. Below this, it says 'Project will be created in:'. At the bottom, there are four buttons: 'Cancel', '< Back', 'Next >', and 'Finish'.

Click Next to advance

The screenshot shows the 'GenomeStudio Project Wizard - Loading Sample Intensities' dialog box. The title bar reads 'GenomeStudio Project Wizard - Loading Sample Intensities'. The main heading is 'Genotyping Project' with the subtext 'Please specify the samples you want to load by identifying the sample sheet and associated data and manifest repositories' and the Illumina logo. There are two radio buttons: 'Use sample sheet to load sample intensities' (selected) and 'Load sample intensities by selecting directories with intensity files'. At the bottom, there are four buttons: 'Cancel', '< Back', 'Next >', and 'Finish'.

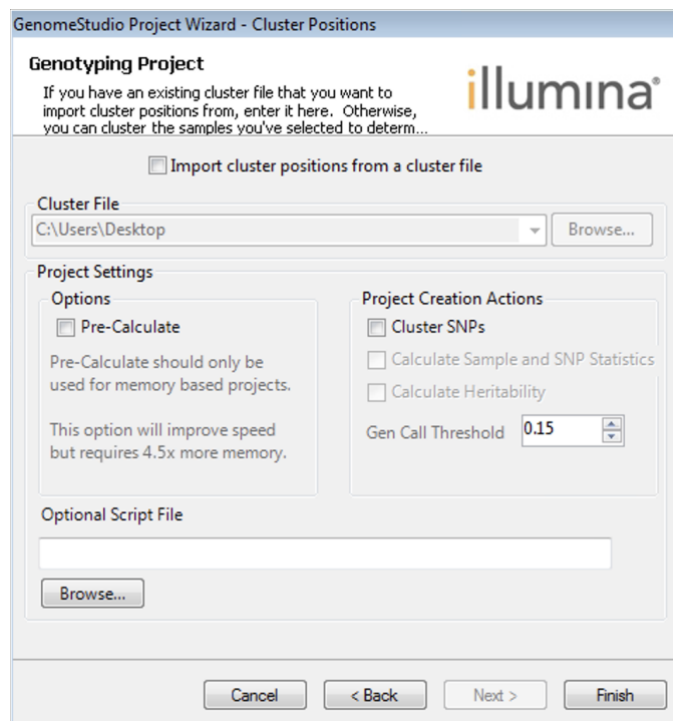
Choose the option “Use sample sheet to load sample intensities”  
Click Next to advance

**Step7.** Browse to specify the location of the downloaded (.csv) Sample Sheet (from Step1), the location of the folder containing all of the downloaded raw intensity data (\*.idat) files (Data Repository from Step2), and the location of the folder containing the downloaded Manifest File (Manifest Repository from Step3)



Click Next to advance

**Step8.** Click Finish



**Step9.** Follow Illumina's provided instructions for creation of a Custom Cluster File <https://www.illumina.com/content/dam/illumina-marketing/documents/products/technotes/custom-cluster-file-cnv-tech-note-770-2017-017.pdf>

<https://www.youtube.com/embed/4JTrbMUbVN0?autoplay=1&rel=0>