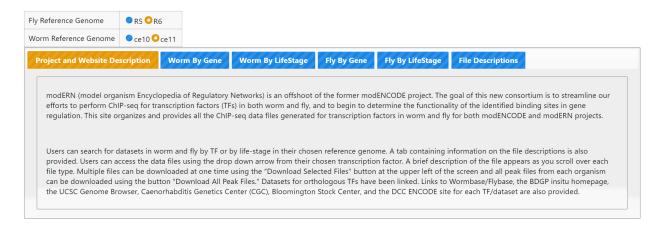
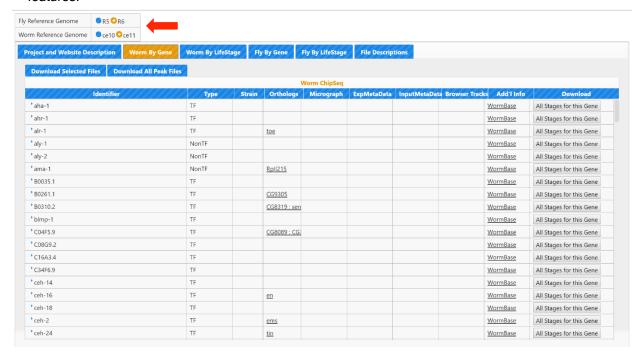
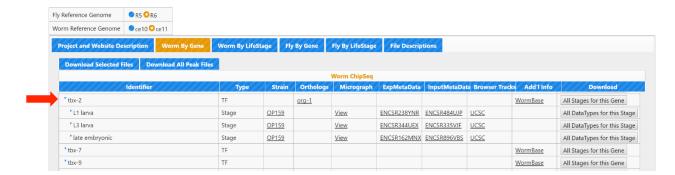
- 1) Go to (http://epic.gs.washington.edu/modERN/) in your web browser.
- 2) The project and website description will be displayed (highlighted in orange) by clicking on that tab.



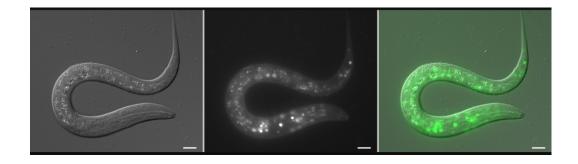
3) Choose your organism and reference genome (highlighted in orange) by clicking on the circle (indicated by red arrow) and then choose whether you want to view the datasets by gene name or by lifestage by clicking on the tab. Shown is "Worm by gene" (highlighted in orange). The steps to follow to access all the data and information are the same for fly. The datasets are displayed in alphabetical order. Scroll down to find your favorite gene/TF. Scroll to the right to see all available features.



4) To view a specific dataset, in this case TBX-2, click on the blue arrow to the left of the gene (indicated by red arrow) and then all lifestages avaliable for TBX-2 will be displayed. For each gene, we provide the type of gene (under Type, TF or nonTF), whether it has an ortholog (under Orthologs) and a link to Wormbase (or Flybase for fly) for additional information (under Add'l info).

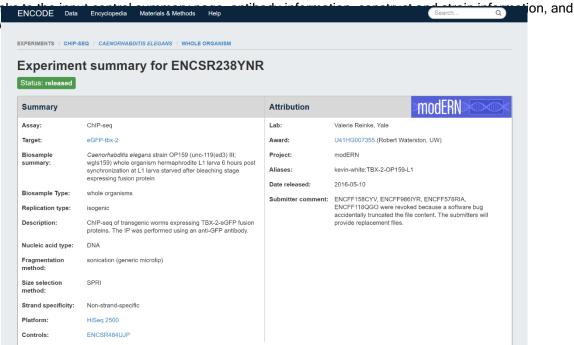


- 5) For each stage, we provide the strain name (under Strain), images of the worm taken before collection for worm (under Micrograph), and links to the Experiment summary at the ENCODE DCC site for the ChIP replicates (under ExpMetaData) and the input control (InputMetaData). There are also links to the UCSC browser to view the signal track.
- 6) Worm image of TBX-2 taken at the L1 stage before collection after clicking "view" under Micrograph.

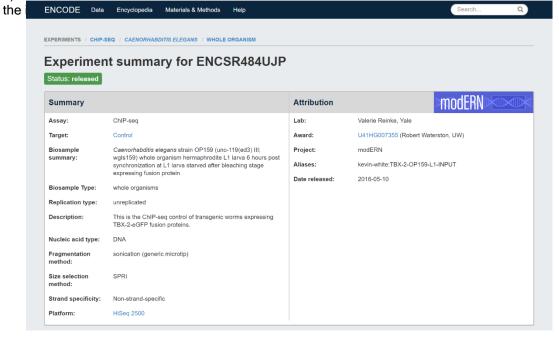


7) Experiment summary page at the ENCODE DCC site for the TBX-2 L1 dataset after clicking the link

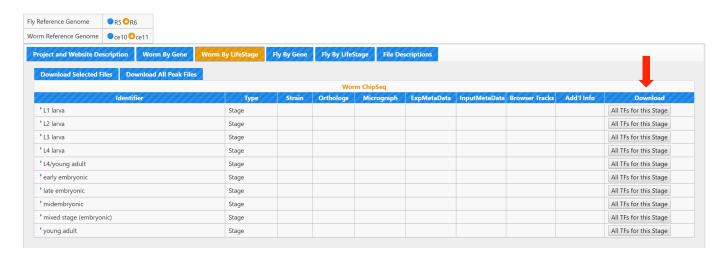
under "ExpMetaData." Each dataset has a unique identifier, in this case "ENCSR238YNR." This page provides detailed information on the dataset such as the sequencing platform used, collection information, all raw and processed files, worm images, and a ChIP protocol. The page also provides



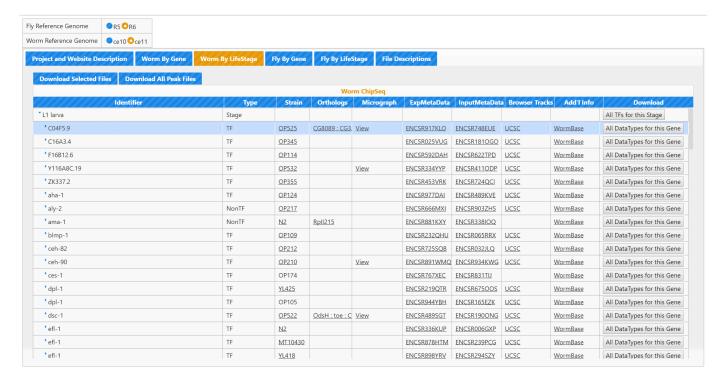
8) Experiment summary page at the ENCODE DCC site for the TBX-2 L1 control dataset after clicking



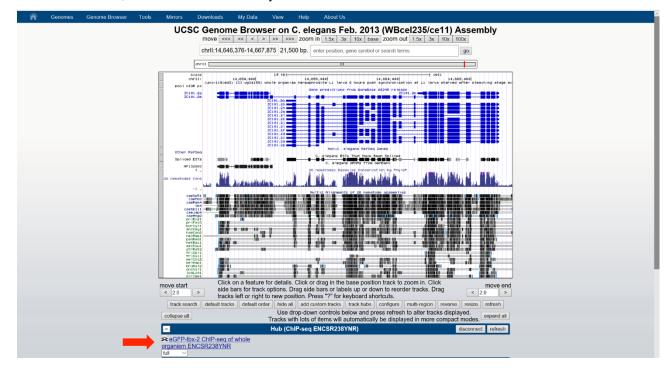
9) You can also view the datasets by lifestage by choosing "Worm by Lifestage" (highlighted in orange) or "Fly by Lifestage". Shown are all the stages that have been collected for worm. You can download all the data associated with each stage by choosing "All TFs for this Stage" in the download column indicated by the red arrow (this will take some time!).



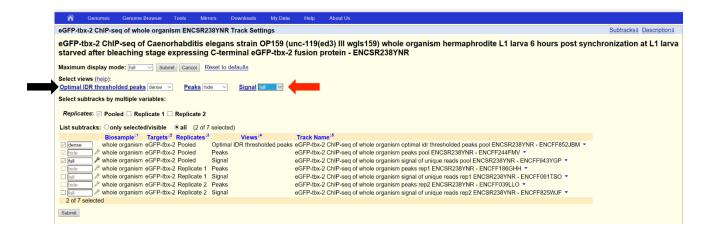
10) Shown below are all the genes/TFs collected at the L1 stage in worm. Scroll down for more.



11) To view the signal track for the TBX-2 L1 dataset click the UCSC browser track link (under Browser tracks). Only datasets that have a UCSC track available will have a link. To visualize the track, click the link indicated by the red arrow.



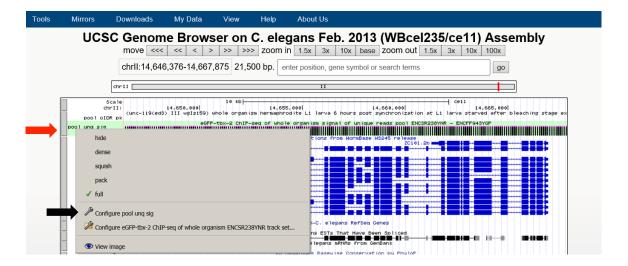
12) Make sure that the signal is set to full (indicated by the arrow). The default is that the pooled replicates with input subtracted signal track is displayed. To view the called peaks that passed IDR (scoring), click on the "Optimal IDR thresholded peaks" track indicated by the black arrow. Make sure that the peak track is set to "dense." Click submit below on the left to view.



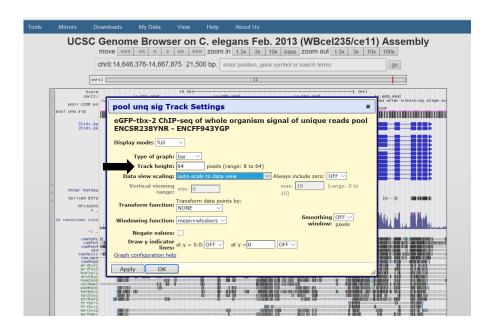
13) Shown is the signal track for the pooled replicates with background subtracted (black arrow) and the called peaks track shown as black bars (red arrow).

Tools	Mirrors	Downloads	My Data	View H	elp About	Us				
	ucs	C Genom				Feb. 2013 3x 10x base			Assembly 100x	
	chrII:14,646,376-14,667,875 21,500 bp. enter position, gene symbol or search terms									
=)R pk	eGFP-	-tbx-2 ChIP-seq c	of whole organis	arva 6 hours post	reads pool ENCSF		,665,000 ed after bleaching stage ex YOP	

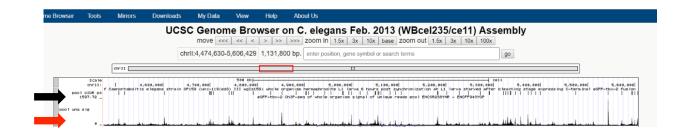
14) To change the track height, right click the grey bar on the left of the track (red arrow). Make sure that just the signal track is highlighted in green. Click on "Configure pool unq sig" (black arrow).



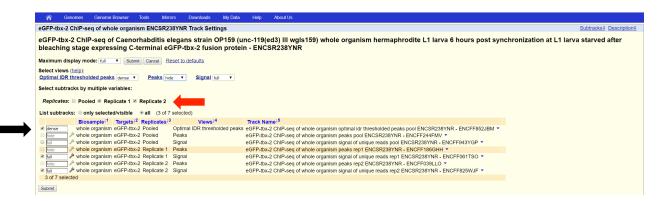
15) Change the track height to your desired height (black arrow). Make sure the Data view scaling below is set to "auto-scale to data view." Click "apply" on the lower left and then "OK" to view the changes.



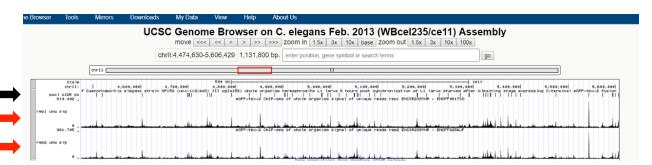
16) Shown is the pooled replicates with input subtracted signal track (red arrow) and the called peaks that passed scoring (Optimal IDR thresholded peaks) track as black bars above (black arrow).



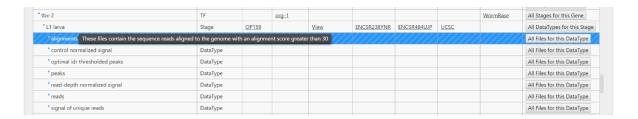
17) To view the individual replicates, click on replicates 1 and 2 (indicated by the red arrow). You can turn off the individual replicate peak tracks by unclicking the boxes on the left or by setting the Peaks to "hide." To view the called peaks that passed IDR (scoring), click on the "Optimal IDR thresholded peaks" track indicated by the black arrow. Make sure that it is set to "dense." Click submit below on the left to view. Follow the same directions given for the pooled replicates on the previous page to adjust the track height.



18) Shown are the signal tracks for each replicate (indicated by the red arrows) and the Optimal IDR thresholded peaks" track as black bars above (indicated by the black arrow).



19) To view all the available raw and processed files for the dataset, click on the blue arrow next to the L1 stage under TBX-2. As you scroll over each file type, a brief description appears. The description for alignments is shown as an example. To download individual file types, click on "All files for this DataType" in the download column or you can download "All Datatypes for this Stage" or "All Stages for this Gene."



20) A list of all the files and their descriptions can be found under File Descriptions (highlighted in orange below).

