

Agilent ChIP Analytics 1.2 Software

ChIP Analytics 1.2 software is an easy-to-use application for analyzing data from Agilent ChIP-on-chip microarrays. It accepts data output from Agilent Feature Extraction software or AXON GenePix® software and analyzes the significance of protein binding events without extensive processing and manipulation. The software takes advantage of the high-speed statistical analysis functions that include user-configurable heuristics for binding event identification based on p-values and adjacent probes, as well as inter- and intraarray intensity normalization and error modeling.

Features and Benefits at a Glance

- New visualization capabilities with reference genome, QC plots, and binding event data
- Peak detection algorithm for convenient visualization of binding sites
- Simultaneous analysis of sets of microarrays and experiments
- Output reports containing probe, sequence, and gene detail
- UCSC track report option allows visualization of binding event data in the UCSC Genome Browser
- Support for multiple biological and technical replicates

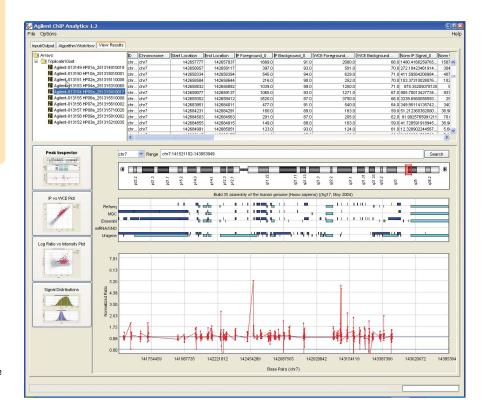
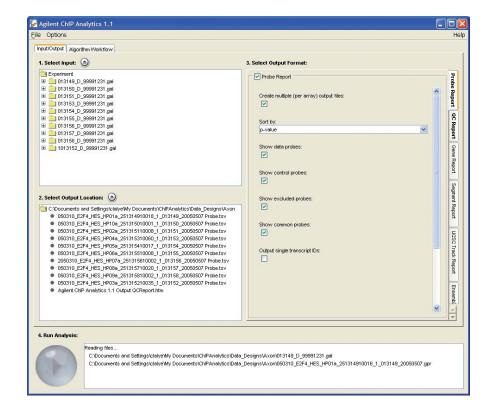


Figure 1. The peak detection visualization feature allows inspection of the regions of interest and a display of nearby genomic features.



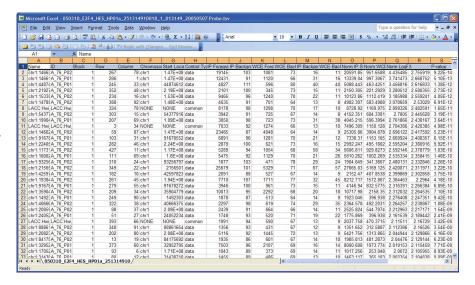
Simultaneous Analysis of Sets of Microarrays with Annotations

Overview of ChIP Analytics workflow and inputs and outputs. Software supports use of multiple biological and technical replicates.



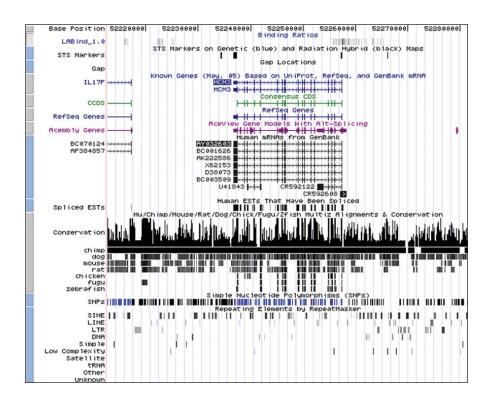
Output Reports Containing Probe, Sequence, and Gene Detail

Output allows identification of probes, genes, and genomic loci that exhibit significant binding. ChIP Analytics reports its findings in file formats that can be easily loaded into other analysis software.



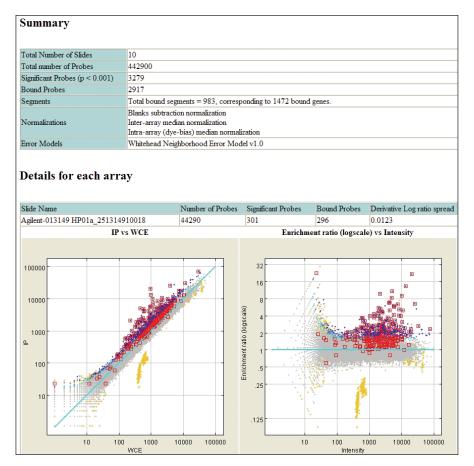
Option of UCSC Track Report

Compatibility with the UCSC Genome Browser view allows you to easily visualize binding data (shown here is a May 2004 human reference sequence based on NCBI Build 35).



QC Report

Shown here is an example of the convenient, at-a-glance visualization for key experimental elements. The ΩC report shows a plot of the immunoprecipitated extract (IP) vs. the whole cell extract (WCE) and allows identification of enriched vs. unenriched targets.



Specifications	
Product number (commercial use)	G4477AA, option CML
Product number (academic/non-profit use)	G4477AA, option NFP
License type and duration	One year, single workstation
Operating system	Windows® 2000 Windows® XP SP2 Mac OS X
RAM	Minimum 512 MB (1 GB or more preferred)
Hard disk space	200 MB (software) 2 GB or more (design files and Feature Extraction data files)
Additional software	Internet Explorer 6.0 or later Adobe® Reader 4.0 or later Java 1.4.2_08 or better
CPU	2.0 GHz processor or faster

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