

Chromosome Analysis Suite v1.2.1 (ChAS) Software

Intuitive analysis tailored for cytogenetics—now for use with the CytoScan® HD Array

The Affymetrix® Chromosome Analysis Suite v1.2.1 (ChAS) Software enables cytogenetics researchers to easily detect and analyze relevant chromosomal aberrations when used with high resolution CytoScan® HD Arrays. Designed with input from leading cytogenetics experts, the highly intuitive, state-of-the-art ChAS v1.2.1 Software is tailored for data visualization, customized cytogenetic research analysis, and genotype reporting.

The ChAS v1.2.1 Software enables you to:

- Analyze data and generate results quickly
- Customize and load annotation files and cytogenetic regions of interest for focused analysis at different levels of resolution
- Streamline the interpretation process with genotype reporting functionality
- Create settings to analyze data at various resolutions
- Directly access external databases such as NCBI, UCSC Genome Browser, Ensembl, and OMIM

Features

The Chromosome Analysis Suite v1.2.1 Software enables analysis on cytogenetics .CEL files and features a streamlined analysis workflow, multiple graphical views, and flexible analysis options presented in an easy-to-navigate graphical interface.

Designed by cytogeneticists for cytogeneticists, the ChAS v1.2.1 Software includes customizable filters and annotation tracks that allow you to target known haploinsufficiency genes at high resolution. Copy number variations (CNV) can be compared to other datasets, historical cases, and normal reference sets. With the ChAS v1.2.1 Software, users can interpret data and generate custom reports based on their laboratory's requirements.

ChAS Software is available free of charge as part of the complete CytoScan® HD Solution. To download software and related array-specific files, visit www.affymetrix.com/chas.

ChAS v1.2.1 Software computer system requirements for the CytoScan HD Array

The table below provides the minimum and recommended computer system requirements for the CytoScan HD Array (visualization only or visualization AND analysis to CYCHP file). **Note:** A 64-bit computer with 8 or more GB of RAM is **required** for analyzing CEL>CYCHP files for the CytoScan HD Array.

	Recommended requirements	Minimum requirements	
Processor	3+ GHz Intel® Core 2™ Quad	2+ GHz Intel® Pentium® Dual-Core	
System hardware	64-bit, 16 GB RAM	Full support¹ 64-bit, 8 GB RAM	Data viewing only² 32-bit, 3 GB RAM
Windows operating system and web browser	Windows® 7 Professional SP1 and Internet Explorer® 8.0 or above	For 64-bit, 8 GB RAM Windows 7 Professional SP1 and Internet Explorer 8.0 or above or Windows® XP SP2 and Internet Explorer® 7.0 or above	For 32-bit, 3 GB RAM Windows 7 Professional SP1 and Internet Explorer 8.0 or above or Windows® XP SP3 and Internet Explorer 7.0 or above
Available disk space³	250 GB HD + data storage	150 GB HD + data storage	
Free disk space	>5 GB	>5 GB	
RAM	16 GB	8 GB (3 GB for 32-bit data viewing only)	
Software used to generate CYCHP file	ChAS 1.2.1	ChAS 1.2.1	
Software used to view CYCHP file	ChAS 1.2.1	ChAS 1.2.1	

¹**Full support** for both analyzing CEL>CYCHP files for the CytoScan HD Array and viewing the data requires a minimum 64-bit computer with 8 GB RAM and either Windows 7 Professional SP1 and Internet Explorer 8.0 or above or Windows XP SP2 and Internet Explorer 7.0 or above, installed.

²**Data viewing only** of CytoScan HD Array CYCHP files requires a minimum 32-bit computer with 3 GB RAM and either Windows 7 Professional SP1 and Internet Explorer 8.0 or above or Windows® XP SP3 and Internet Explorer 7.0 or above, installed.

³**Available disk space**—When calculating required available disc space, please take into account the larger file sizes associated with the CytoScan HD Array. For example, a CytoScan HD Array CYCHP file is ~120 MB.

Related products

Part number	Description	Details
N/A	Chromosome Analysis Suite v1.2 (ChAS) Software	Available as download at www.affymetrix.com/cytoscan
N/A	GeneChip® Command Console® Software plug-in for CytoScan® HD Arrays	Available as download at www.affymetrix.com/cytoscan
N/A	Fluidics script for CytoScan® HD Arrays	Available as download at www.affymetrix.com/cytoscan
N/A	Analysis files for CytoScan® HD Arrays	Available as download at www.affymetrix.com/cytoscan
N/A	Sample dataset for CytoScan® HD Arrays	Available as download at www.affymetrix.com/cytoscan

Affymetrix, Inc. Tel: +1-888-362-2447 ■ Affymetrix UK Ltd. Tel: +44-(0)-1628-552550 ■ Affymetrix Japan K.K. Tel: +81-(0)3-6430-4020
 Panomics Solutions Tel: +1-877-726-6642 www.panomics.com ■ USB Products Tel: +1-800-321-9322 www.usb.affymetrix.com

www.affymetrix.com Please visit our website for international distributor contact information.

“For Research Use Only. Not for use in diagnostic procedures.”

P/N CL00905 Rev. 2

©Affymetrix, Inc. All rights reserved. Affymetrix®, Axiom®, Command Console®, CytoScan®, DMET™, GeneAtlas®, GeneChip®, GeneChip-compatible™, GeneTitan®, Genotyping Console™, myDesign™, NetAffx®, OncoScan™, Powered by Affymetrix™, PrimeView™, Procarta®, and QuantiGene® are trademarks or registered trademarks of Affymetrix, Inc. All other trademarks are the property of their respective owners.

Products may be covered by one or more of the following patents: U.S. Patent Nos. 5,445,934; 5,744,305; 5,945,334; 6,140,044; 6,399,365; 6,420,169; 6,551,817; 6,733,977; 7,629,164; 7,790,389 and D430,024 and other U.S. or foreign patents. Products are manufactured and sold under license from OGT under 5,700,637 and 6,054,270.