illumina®

GenomeStudio® 2.0 Software

Improved genotype calling and support for polyploid species.

Introduction

GenomeStudio 2.0 Software provides robust improvements to Illumina genotype calling algorithms. This solution complements the new Illumina Infinium® XT 96-sample BeadChip format to enable a broad spectrum of large-scale targeted genotyping applications. GenomeStudio 2.0 Software includes a new automated genotype calling feature for polyploid organisms, making the software ideal for more complex genomes.

1. What are the key features of GenomeStudio 2.0 Software?

GenomeStudio 2.0 Software includes the Genotyping Module for analyzing data from diploid organisms and the Polyploid Genotyping Module for analyzing data from polyploid organisms. The updated Genotyping Module offers a new clustering and genotyping option, GenTrain 3.0, designed for improved normalization and clustering, particularly for Infinium XT products. The Polyploid Genotyping Module improves on the older Polyploid Clustering Module by enabling clustering and genotype calling for polyploid organisms.

2. Will GenomeStudio 2.0 Software include support for methylation and gene expression analysis?

GenomeStudio 2.0 Software will only include support for the Genotyping Module and Polyploid Genotyping Module.

3. When will GenomeStudio 2.0 Software be available?

GenomeStudio 2.0 Software will be available in the third quarter of 2016.

4. How will GenomeStudio 2.0 Software licenses be priced?

GenomeStudio 2.0 Software will not require any license keys and will be provided by Illumina free of charge. The installer for the software will be posted on the Illumina website for public download when it is available later this year.

5. What are the system requirements for running GenomeStudio 2.0 Software?

Minimum hardware recommendations to run GenomeStudio 2.0 Software are as follows:

Parameter	Microarray Data Analysis
CPU Speed	Intel Celeron Duo or faster
Processor	64-bit
Memory Size	8 GB or more
Hard Drive	100 GB or larger
Video Display	1280 × 1024
Operating System	Windows 7 or higher
Specific Operating System Requirements	Microsoft .NET Framework 4.5

6. Can the analysis be automated for production-scale genotyping?

Beeline™ Software enables automation of the analysis pipeline, integrating with the Illumina AutoCall or AutoConvert software on the iScan® System to produce QC and Genotyping Reports on demand.

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

AGAATGATAACAGTAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAGAGCTACCGTCTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAAC
TCAACGTACCGTAACGAACGTATCATTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAGAGCTACCGTGCAACGACGAAAAGAATGATAACAGTAACACACTTCTGTTAACCTT
CGACGAAAAGAATGATAACAGTAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAGAGCTACC
AACGTACCATTAAGAGCTACCGTGCAACAGTAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAGAGCTACCGTGCAACGACGAAAAGAATGATAA
AGAATGATAACAGTAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAGAGCTACCGTCTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAAC
GATTACTTGATCCACTGATTCAACGTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGCTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAGCAACGAGC
CGTATCAATTGAGACTAAATATTAACGTACCATTAAGAGTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAGAGCTACCGTGCAACGAAAAGAATGATAACAGTA

Learn More

To learn more about Beeline Software, visit
www.illumina.com/techniques/microarrays/array-data-analysis-experimental-design/beeline.html

To learn more about GenomeStudio Software, visit
www.illumina.com/techniques/microarrays/array-data-analysis-experimental-design/genomestudio.html

For questions and additional information, contact a representative at insidesales@illumina.com

Illumina • 1.800.809.4566 toll-free (US) • +1.858.202.4566 tel • techsupport@illumina.com • www.illumina.com

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

© 2016 Illumina, Inc. All rights reserved. Illumina, Beeline, GenomeStudio, Infinium, iScan, and the pumpkin orange color are trademarks of Illumina, Inc. and/or its affiliate(s) in the U.S. and/or other countries. Pub. No. 970-2016-021 Current as of 26 May 2016

illumina®

AGAATGATAACAGTAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAGAGCTACCGTCTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAAC
TCAACGTACCGTAACGAACGTATCATTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAGAGCTACCGTGCAACGACGAAAAGAATGATAACAGTAACACACTTCTGTTAACCTT
CGACGAAAAGAATGATAACAGTAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAGAGCTACC
AACGTACCATTAAGAGCTACCGTGCAACAGTAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAGAGCTACCGTGCAACGACGAAAAGAATGATAA
AGAATGATAACAGTAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAGAGCTACCGTCTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAAC
GATTACTTGATCCACTGATTCAACGTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGCTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAGCAACGAGC
CGTATCAATTGAGACTAAATATTAACGTACCATTAAGAGTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAGAGCTACCGTGCAACGAAAAGAATGATAACAGTA