

Microarray Data Generation and Analysis Services

In building the largest commercial gene expression reference database, Gene Logic has developed a wealth of experience in human and animal sample processing and Affymetrix GeneChip® array data generation, management, and analysis. Now we bring this expertise to you through our Data Generation and Analysis Services. Regardless of your scientific focus, we can work with you to design and execute the project that meets your gene expression needs.

When choosing a company to generate your microarray data, you need to know that your samples will be processed at the highest standards. Our expertise speaks for itself.

Providing the highest quality data.

Gene Logic employs extensive quantitative and qualitative metrics. Numerous data quality measurements are employed from the time the sample is received to final data output. Our proprietary information management systems ensure the proper processing, storing, and tracking of samples from freezer through production. We adhere to strict Standard Operating Procedures to generate consistent, high quality data that is comparable between arrays and over time for increased data reproducibility and comparability. Gene Logic has built this foundation of quality through years of experience processing over 40,000 samples and over 150,000 arrays.

Processing difficult tissue types.

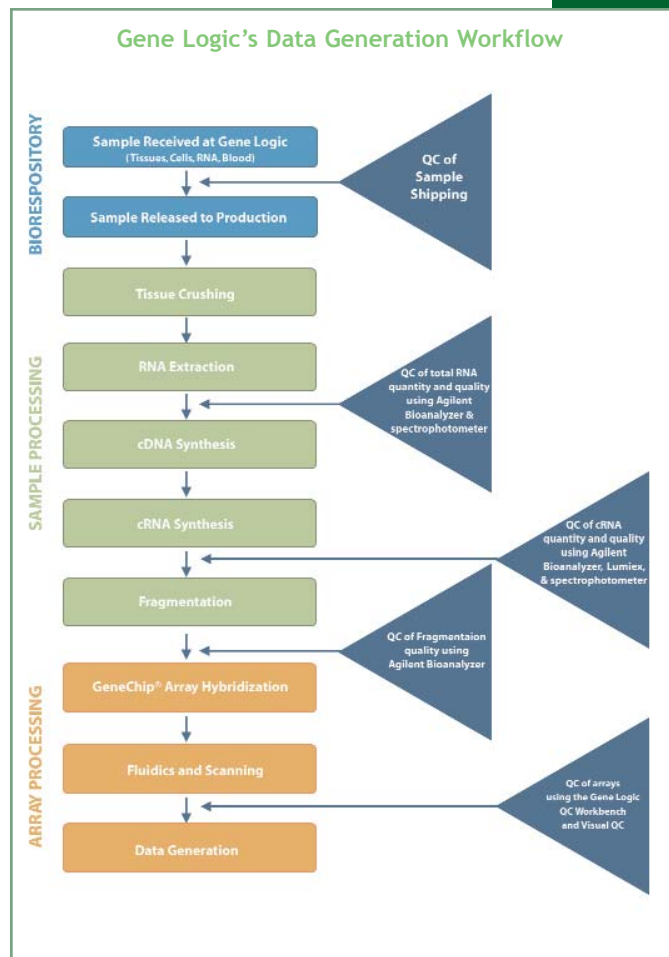
Gene Logic provides expertise in handling clinical samples that are difficult to process. For example, Gene Logic has developed optimized protocols for generating high quality data from low RNA yield tissue types, such as bone and pancreas.

Through our proprietary methodologies for RNA extraction from whole blood to reduce globin interference, Gene Logic is able to significantly increase the sensitivity and reproducibility of whole blood sample microarray data. With this highly robust methodology for accurate profiling of expressed genes in human, rat, mouse, canine, and primate blood, Gene Logic is able to maximize your discovery efforts using peripheral blood samples.

Additional Services and Support.

In addition, Gene Logic has expertise in performing microsample amplification (MSA) and Laser Capture Microdissection (LCM). With these specialized capabilities, Gene Logic is able to offer customers the ability to generate gene expression data from homogeneous cell types and very small sample quantities (10-15 ng of RNA).

Gene Logic's unique ability to combine genomics, informatics, and preclinical and clinical expertise to meet specific customer needs brings a powerful new dimension to drug discovery and development. Combining our Data Generation and Analysis Services with our integrated portfolio of contract study and other premium services can significantly impact your discovery and development capabilities.



Gene Logic offers you a wide range of flexible options:

High throughput Data Generation Services using validated protocols for all commercially available Affymetrix GeneChip® arrays

- Starting materials can be tissue, cells, blood, or RNA
- Proprietary data production capabilities utilize the state-of-the-art 11µm technology platform from Affymetrix or any other GeneChip® array
- Custom Affymetrix arrays with proprietary content can be run

Specialized expertise with difficult tissue types

- Data is delivered in .dat and .cel file formats
- Optimized protocols for low RNA yield tissue types (i.e., bone, pancreas)
- Proprietary method for optimal RNA separation from whole blood to reduce globin interference and provide the most accurate, biologically significant expression results
- Specialized operations to support:
 - Laser Capture Microdissection (LCM)
 - Micro-Sample Amplification (MSA)

Additional algorithms and services

- Mechanism of Disease
 - Identify the biological pathways and genes (biomarkers) uniquely affected by disease processes
- Mechanism of Activity
 - Understand the biological pathways and genes (biomarkers) uniquely affected by efficacious compounds
- Mechanism of Toxicity
 - Learn what toxicity-related adverse events may be caused by your compound by evaluating genes, dysregulated pathways, and relevant gene families (biomarkers)

For More Information

Visit Gene Logic's website at www.genelogic.com. To have a Gene Logic representative contact you, please email info@genelogic.com or call 1-800-GENELOGIC.



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