



Ziplex® Gene Expression Services

Convenient and Reliable.
Fast and Affordable.

Xceed's Gene Expression Services lets you advance new discoveries to the next level.

Once you have completed your biomarker discovery efforts using a high density microarray platform, the next steps to validate your signature of interest can be time consuming and cost prohibitive. Xceed Molecular makes it convenient for you to move forward with your research.

The Ziplex® System and Flow-Thru Chip® technology provide a practical and reliable solution for biomarker validation. Gain firsthand experience with the quality and reliability of results via Xceed's Custom Gene Expression Services.



Custom TipChip Design

Xceed has designed its Custom Gene Expression Services with the researcher's interests in mind. Xceed's scientists will work closely with you to design custom TipChip arrays with your specific content of interest and to optimize the array to achieve your desired performance requirements. Sample preparation and array processing will be performed under controlled methods, with results delivered in a timely manner.

Signature Chips

Xceed can also run samples on our Signature Chips. Signature Chips are TipChips that contain published genes of interest for common pathways or disease processes. They can be used to assess relationships of transcripts to each other for a defined set of conditions. Visit our website regularly for an up to date list of the growing number of Signature TipChips.

Let Xceed advance your research at an affordable cost while providing the quality of results and reliability you would demand of your own laboratory.

SPOTLIGHT ON TECHNOLOGY

Ziplex® System with Flow-Thru Chip® Technology

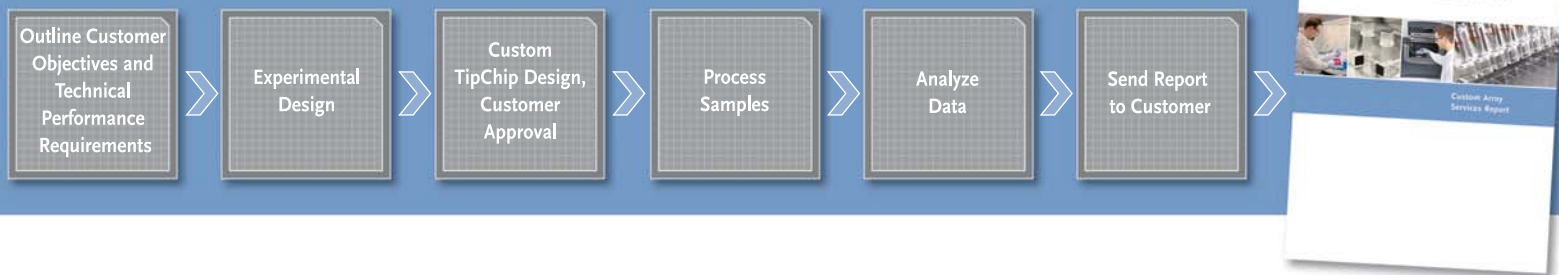
Xceed has developed the Ziplex System to address the need for simplicity, automation and cost-effectiveness in molecular testing.

The Ziplex System is a simple multiplex test platform that uses exclusive Flow-Thru Chip technology to deliver high-quality, focused gene expression profiling in a fraction of the time of traditional microarray platforms.

Unlike two-dimensional arrays, the unique 3D Flow-Thru Chip design enables active transport of targets to probes. That means faster hybridization times and faster results.

Custom TipChips with focused content array design provide information on specific gene signatures of interest, rather than the entire genome. Each array contains up to 400 features and is ideal for focused disease biomarkers comprised of up to 120 probes, allowing for 3 replicates per probe. Focused content allows cost-effective analysis of relevant markers in disease-process investigations.

ARRAY SERVICE PROCESS



ARRAY TYPE	TURNAROUND TIME	NUMBER OF SAMPLES
Custom TipChip	10 weeks	100

Sample Requirements

Xceed will accept samples with the following requirements:

SAMPLE TYPE*	total RNA
QUANTITY	minimum 500 ng
CONCENTRATION	> 50 ng/ μ L
BUFFER	TE buffer, pH 7.5
A₂₆₀/A₂₈₀ RATIO	1.65 – 2.35

* Other sample types such as mRNA or whole blood (PAXgene) may also be provided. Please contact us for more information on the requirements for these sample types.



SAMPLE PROCESSING

Xceed can perform the entire experiment from sample preparation to data analysis:

- Incoming Sample Testing**
 All samples will be tested for RNA concentration and quality by absorbance measurements on a spectrophotometer and analysis on an Agilent 2100 Bioanalyzer.
- Double-stranded cDNA Synthesis**
 First strand and second strand cDNA is synthesized from your RNA sample, followed by cleanup of double-stranded cDNA.
- IVT and Biotin Labeling**
 Biotin-labeled cRNA target is prepared by in vitro transcription (IVT) method, followed by cleanup. The concentration of the biotinylated cRNA is determined by absorbance measurement on a spectrophotometer.
- Automated Hybridization and Detection on the Ziplax® System**
 Labeled cRNA targets are hybridized to custom TipChip microarrays. Hybridized target is detected through sensitive chemiluminescent detection with a CCD camera.
- Data Analysis**
 Data are analysed, background subtracted and summarized with statistical information and then reported to customer in a tabular format.

PRICE

Please contact Xceed Molecular for pricing information.



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