GENOMICS INFORMATICS PROTEOMICS METABOLOMICS

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Agilent Custom Microarrays

Go wherever your research takes you

Agilent's Custom Microarrays put you in total control of the content on each of your microarrays, giving you the optimum tools for specific experimental needs. Through our Custom Microarray Design Services (CMDS) and eArray online array creation application tool, you can create customized microarrays quickly and easily, while maintaining the reproducibility and quality control you expect from Agilent's world-renowned manufacturing processes. Whether studying the genome of a unique organism or delving deeper into a gene set of interest, Agilent's Custom Microarrays offer you the ability to analyze any genome, any application, anytime, anywhere.

Agilent Technologies

Benefits at a Glance

- Easily design your microarray by either choosing from optimized probes for given genes, uploading your own sequences, or having Agilent design probes.
- Establish hypothesis-driven experimentation through dependable, reproducible design iteration.
- Flexibly order in quantities you need at no additional cost, with delivery times of weeks rather than months.
- Target only genes of interest, rather than paying for a non-customized general probe set with features you do not need.

Customization Tailored to Meet Your Research Needs

Agilent's menu of customization options provides a solid foundation for a diverse range of applications. Whether your research utilizes established methods such as RNA expression analysis, or delves into the latest techniques such as chromatin immunoprecipitation (ChIP-on-chip) or comparative genomic hybridization (CGH), the Agilent Custom Microarray Platform allows you to construct microarrays that match your specific experimental needs.

Design your experiment from the ground up – on your own terms, and with a focused approach. Agilent allows you to customize your array based on the following options:

- Design Iteration – Rapid, low-cost inkjet printing allows infinite sequence flexibility for hypothesis-driven studies
- Probe Length – Optimized from 25-60 base pairs
- Format – Multiplexed arrays on a single slide in 1 x 244K, 2 x 105K, 4 x 44K, 4 x 22K, and 8 x 15K formats for maximum efficiency
- Feature Count – Microarray densities between 1.9K to 244K per array
- Sensitivity – 60-mer oligonucleotide probes are synthesized in situ using liquid chemistry for heightened sensitivity
- Access – Manage collaborative research through customer-controlled design access controls and permissions
- Flexibility – Tailor array design to your application(s) – gene expression, Oligo aCGH, ChIP-on-chip.

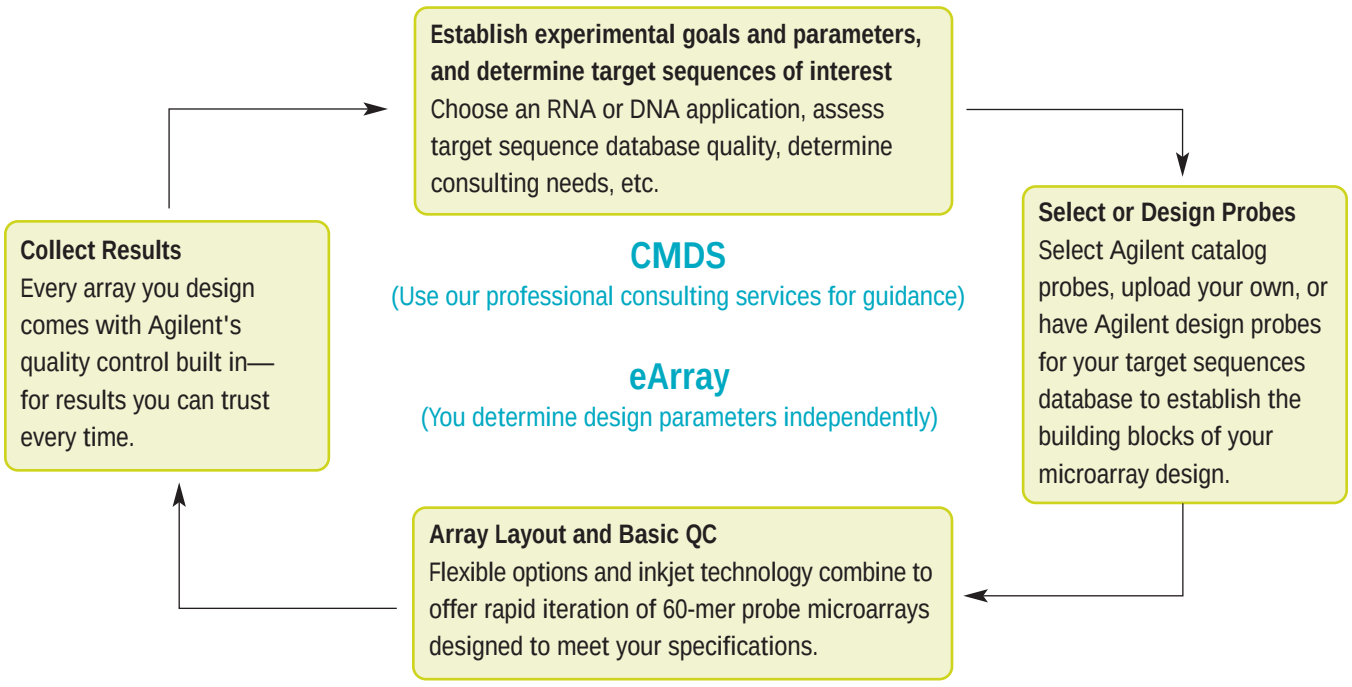

FIgure 1. Steps of the design process

You Decide Which Custom Option Best Meets Your Needs

Either by taking advantage of our Custom Microarray Design Services (CMDS) and working with one of our design consultants, or by logging on to eArray—our revolutionary online interface—we put the power of custom arrays into your hands.

Custom Microarray Design Services (CMDS)

Agilent offers a supportive approach to specialized custom microarray design by enabling you to leverage our experts to whatever extent you need. Services provided include:

- Level 1 Consulting – Microarray layout and basic QC
- Level 2 Consulting – Probe design/curation and microarray layout
- Professional Consulting – Clustering and assembly of target sequences, database development, and annotation
- Application-specific design such as CGH and ChIP-on-chip high-resolution probe selection and layout

eArray

Agilent's eArray online microarray design tool enables you to design custom arrays in a secure, web-based environment, putting you in total control while reducing the costs typically incurred with customized commercial arrays. With eArray, the design of your custom microarrays is as easy as uploading your sequence as a text file or searching public databases of genomic information. The eArray web tool allows you to:

- Create custom microarray designs
- Submit array designs to Agilent's manufacturing facility directly
- Download annotation files for use in image and data analysis applications
- Work collaboratively and share designs with colleagues

Which Custom Service is Right For You?

	CMDS if your:	eArray if your:
Microarray design requirements	• Require assistance • Are not eArray-supported	• Can be set up and managed without difficulty
Probe design and optimization	• Require assistance • Are not eArray-supported	• Utilize your own probes • Utilize Agilent Catalog probes
End goal or application	• Is not eArray-supported	• Is a standard Agilent offering

About Agilent's Integrated Biology Solutions

Agilent Technologies is a leading supplier of life science research systems that enable scientists to understand complex biological processes, determine disease mechanisms, and speed drug discovery. Engineered for sensitivity, reproducibility, and workflow productivity, Agilent's integrated biology solutions include instrumentation, microfluidics, software, microarrays, consumables, and services for genomics, proteomics, and metabolomics applications.

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