

ASSAYS BY AGENA



# Tailored Assay Solutions

Laboratory Services for Rapid Custom Assay Development

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

**Agena**<sup>®</sup>  
BIOSCIENCE

## Assays By Agena Services

Developing custom assays can be time and resource intensive. With most technologies it is not easy to balance cost, development time, and resources when creating custom panels.

The MassARRAY® System from Agena Bioscience® is an ideal platform for custom assay design with its versatile technology, offering flexibility in specimen types, biomarkers, multiplexing, limit of detection, and throughput. Partner with one of our expert scientists to develop custom assays, or take advantage of our easy-to-use assay design tools to design your own assays.

**Our Assays by Agena Services provide everything you need for designing and delivering custom content:**

### > DESIGN

Design SNP, insertion, deletion, translocation, copy number variant, somatic mutation, and methylation assays.

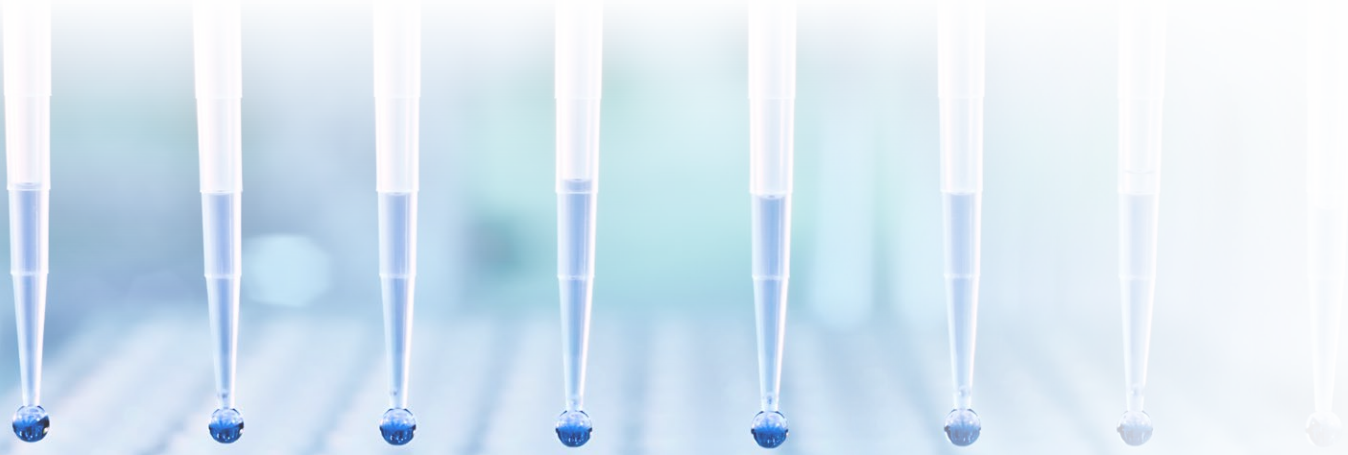
### > VERIFY

Functional testing of multiplexed assays for accuracy, robustness, and performance.

### > DELIVER

Delivery of ready-to-use assays and custom software analysis for easy implementation in the lab.

- **EXPERT** – Assays by Agena scientists design and develop assays according to your needs.
- **ASSAY VERIFICATION** – Assays are functionally verified in Agena laboratories.
- **COLLABORATIVE** – Training and support provided by Agena scientists.

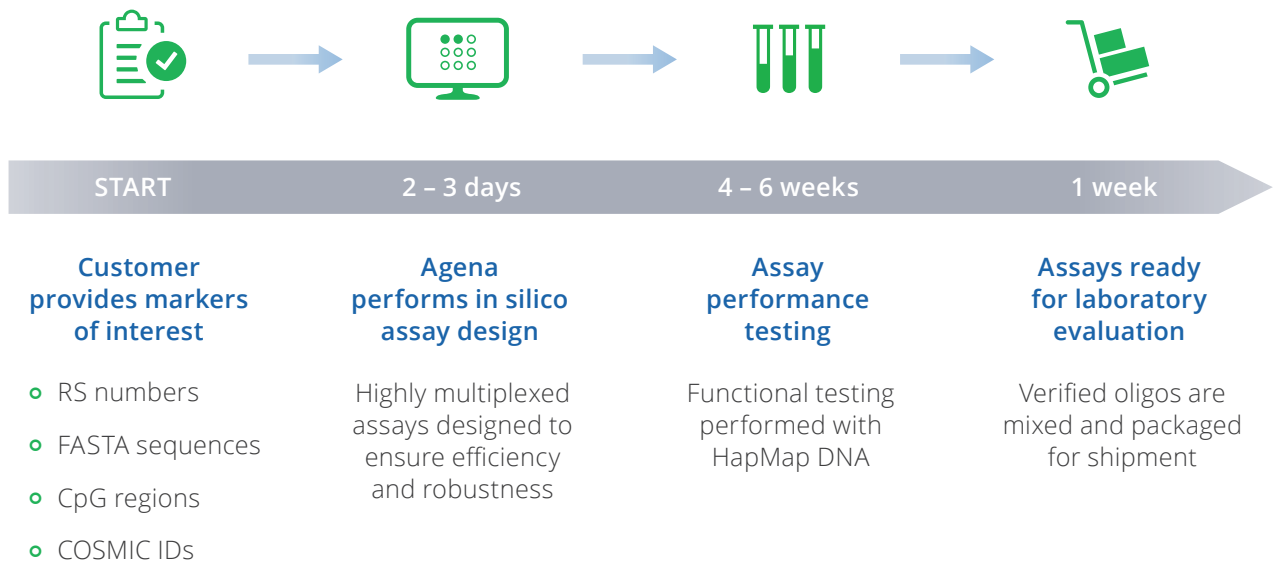


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## Partner with our expert Assays by Agena scientists

Reduce your assay development time with Assays by Agena services. Our highly skilled scientists design and verify your research use assays in the laboratory for superior performance.

### FROM MARKERS OF INTEREST TO WORKING ASSAYS



\* The timeline is based on developing germline genotyping assays and may differ for other chemistries/applications.

Our scientists functionally test all assays using cell lines and deliver ready-to-use oligonucleotide mixes for easy implementation into your research laboratory. Software services to simplify data analysis are also available.



## A Versatile Platform

The MassARRAY® System is a flexible platform that allows you to perform a variety of DNA analyses with different chemistries. With general purpose reagents and standard, non-labeled oligonucleotides, generating custom assays is simple, fast, and cost-effective.

Biomarkers that can be tested on the MassARRAY® System				
	iPLEX® Pro	iPLEX® HS	UltraSEEK®	MassCLEAVE™
<b>Ideal For</b>	Genotyping germline variants	Detecting somatic and low-frequency variants	Detecting very low-frequency and rare variants	Quantifying methylation changes
<b>Biomarkers</b>	<ul style="list-style-type: none"> <li>• SNPs</li> <li>• Insertions</li> <li>• Deletions</li> <li>• Translocations</li> <li>• Copy Number Variants</li> </ul>	<ul style="list-style-type: none"> <li>• SNPs</li> <li>• Insertions</li> <li>• Deletions</li> </ul>	<ul style="list-style-type: none"> <li>• SNPs</li> <li>• Insertions</li> <li>• Deletions</li> </ul>	<ul style="list-style-type: none"> <li>• CpG Methylation</li> </ul>
<b>Limit of Detection</b>	5% - 10%	≥ 1%	≥ 0.1%	≥ 5%
<b>Quantitative Range</b>	5% - 100%	1% - 20%	0.1% - 10%	5% - 100%
<b>Markers per Reaction</b>	≤ 40	≤ 15	≤ 10	150 bp – 550 bp CpG-rich region
<b>Sample Types</b>	<ul style="list-style-type: none"> <li>• Blood</li> <li>• Buccal cells</li> <li>• Hair follicles</li> <li>• Ear punches</li> <li>• WGA DNA</li> <li>• FTA cards</li> </ul>	<ul style="list-style-type: none"> <li>• Formalin-fixed, paraffin- embedded tissue (FFPE)</li> <li>• Fine needle aspirates (FNA)</li> <li>• Cytology blocks</li> <li>• Core needle biopsy</li> <li>• Seed mixtures</li> </ul>	<ul style="list-style-type: none"> <li>• Plasma</li> <li>• Circulating cell-free DNA (ccfDNA)</li> <li>• Circulating tumor DNA (ctDNA)</li> <li>• Circulating tumor cells (CTCs)</li> </ul>	<ul style="list-style-type: none"> <li>• Blood</li> <li>• FFPE</li> </ul>



## Rapid Results

All chemistries utilize a simple workflow with convenient, universal reaction conditions and general use reagents, generating results in as quickly as a day.

### SAMPLE-TO-RESULTS WORKFLOW



1

Design and develop custom assays using Assays by Agena services



2

Sample collection



3

DNA/RNA isolation



4

Sample processing with general use reagents and assay-specific primers from Assays by Agena



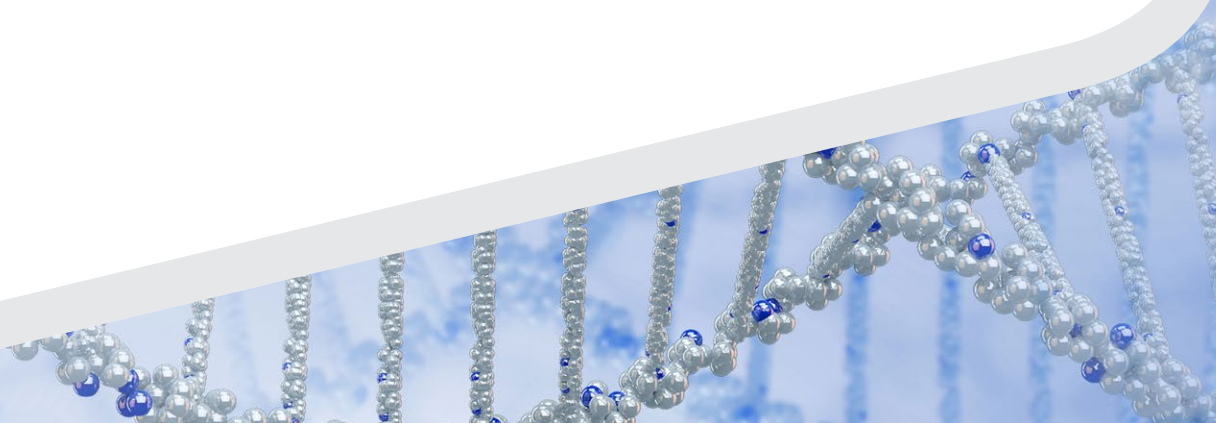
5

Transfer of analytes to the SpectroCHIP Array and data acquisition with the MassARRAY Analyzer



6

Data analysis with easy-to-use application software and reports



## INTERESTED IN DEVELOPING YOUR OWN ASSAY?

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Agena Bioscience has laboratories located globally to provide custom assay services worldwide. Contact your local sales representative to learn more about Assays by Agena services and to get started with your project.



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