



### Infinium Core-24 Kit

These 24-sample arrays enable economical large-scale human genotyping studies, with high-throughput processing capabilities, and the option to add up to 300K semi-custom markers. [Read More...](#)

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### Product Highlights

The customizable Infinium Core-24 BeadChip offers an economical way to perform and support large genetic studies. Developed in collaboration with several leading research institutions, the Infinium Core-24 BeadChip contains highly informative genome-wide tag SNPs found across diverse world populations, additional high-value markers (including indels and updated exome-focused content), and has the capacity to include up to 300,000 semi-custom markers.

In addition to cost-effectively performing large-scale genotyping studies, this BeadChip can be used to quickly and easily obtain baseline sample datasets for a variety of downstream applications, including common variant, mtDNA, ancestry, sex confirmation, loss-of-variant, indel, and CNV detection studies.

The Infinium Core-24 BeadChip is based upon the trusted Infinium assay. Using the proven iScan System, this 24-sample BeadChip combines affordability with high-throughput sample processing to deliver high-quality, genome-wide information.

[View Manifest \(Array Content\) Files](#)

### Specifications

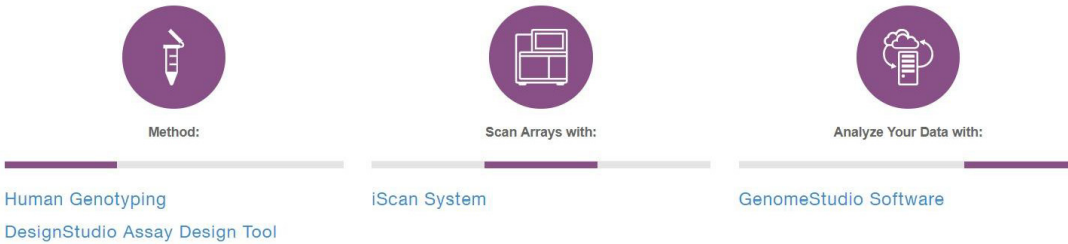
Number of Markers	Fixed markers: 307,342, Custom marker add-on capacity: Up to 300,000 (with + kit versions)
Sample Throughput	~2304 samples per week (estimate for 1 iScan System, 1 AutoLoader 2.x, 2 Tecan robots, and a 5-day work week)
Input Quantity	200 ng DNA
Description	A customizable research array that contains highly informative genome-wide tag SNPs found in diverse world populations, additional high-value markers (including indels and exome-focused content), and the capacity to add up to 300,000 semi-custom markers.
Number of Samples	24 samples per array
Method	<a href="#">Genome-Wide Genotyping Array</a> , <a href="#">High-Throughput Genotyping Array</a>
Nucleic Acid Type	DNA
Variant Class	Copy Number Variants (CNVs), Germline Variants, Insertions-Deletions (Indels), Single Nucleotide Polymorphisms (SNPs), Structural Variants
Automation Capability	Automated Array Loader, Liquid Handling Robots
System Compatibility	iScan, iScan
Species Category	Human
Technology	Microarray

### Product Comparison

	Infinium Core-24 Kit	Infinium OmniExpress-24 Kit	Infinium Global Screening Array-24 Kit
Description	A customizable research array that contains highly informative genome-wide tag SNPs found in diverse world populations, additional high-value markers (including indels and exome-focused content), and the capacity to add up to 300,000 semi-custom markers.	A powerful option for genome-wide association studies that provides high sample throughput with comprehensive genome content and the flexibility to add up to 300,000 semi-custom markers.	An economical next-generation genotyping array that enables population-scale genetics, translational research, variant screening studies, and precision medicine research by combining highly optimized multiethnic genome-wide content with the flexibility to add up to 300,000 semi-custom markers.

	(including fixed and custom-cluster variants), and the capacity to add up to 300,000 semi-custom markers.	genotype variants and the capability to include up to 30,000 semi-custom markers.	containing highly optimized Infinium® genotype-wide variants, curated clinical research variants, and QC markers.
<b>Number of Markers</b>	Fixed markers: 307,342, Custom marker add-on capacity: Up to 300,000 (with + kit versions)	Fixed Markers: ~710,000 Custom marker add-on capacity: Up to 30,000 (with + kit versions)	Fixed markers: ~ 640,000 Custom marker add-on capacity: Up to 50,000
<b>Number of Samples</b>	24 samples per array	24 samples per array	24 samples per array
<b>Sample Throughput</b>	~2304 samples per week (estimate for 1 iScan System, 1 AutoLoader 2.x, 2 Tecan robots, and a 5-day work week)	~2304 samples per week (estimate for 2 iScan Systems, 1 AutoLoader 2.x, 2 Tecan robots, and a 5-day work week)	~2304 samples per week (estimate for 1 iScan System, 1 AutoLoader, 2 Tecan robots, and a 5-day work week)
<b>Species Category</b>	Human	Human	Human

## Method-Specific Workflow Example



## Product Literature

### Product Literature

- [Custom Cluster File Creation for Improved Copy Number Analysis](#)  
Technical Note | PDF < 1 MB
- [Infinium HumanCore-24 v1.2 BeadChip](#)  
Data Sheet | PDF < 1 MB

### Manuals and Support Information

- [Infinium Core-24 Kit Support Documentation](#)
- [All Infinium Core-24 Kit Support](#)

**i** The HumanCore-24 BeadChip Kit has been renamed to Infinium Core-24 Kit. Kits with either name on the label contain the same quality reagents and follow the same workflow.

## Related Products



**Infinium Multi-Ethnic Global-8 Kit**  
A cost-effective array for understanding complex disease in diverse human populations.



**Infinium XT**  
Infinium XT is a comprehensive microarray solution that enables production-scale genotyping of up to 50,000 single or multi-species custom variants.



**Infinium iSelect HD and HTS Custom Genotyping BeadChips**  
Interrogate virtually any target across any species to create a fully customized genotyping array tailored to your unique study needs.



## Related Solutions

### Genotyping by Sequencing

Genotyping by sequencing is a genetic screening method for discovering novel plant and animal SNPs and performing genotyping studies.

[Learn More](#)

### High-Throughput Genotyping for Translational Research

Large-scale genotyping with microarrays can identify variants associated with disease risk in large cohorts or populations.

[Learn More](#)

### Microarray Data Analysis and Experimental Design

Our microarray data analysis software offerings help you to visualize and analyze microarray data and facilitate data analysis for large experiments.

[Learn More](#)

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### Innovative technologies

At Illumina, our goal is to apply innovative technologies to the analysis of genetic variation and function, making studies possible that were not even imaginable just a few years ago. It is mission critical for us to deliver innovative, flexible, and scalable solutions to meet the needs of our customers. As a global company that places high value on collaborative interactions, rapid delivery of solutions, and providing the highest level of quality, we strive to meet this challenge. Illumina innovative sequencing and array technologies are fueling groundbreaking advancements in life science research, translational and consumer genomics, and molecular diagnostics.

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