

Human Infinium™ DNA microarrays

Catalog products

Fixed Infinium genotyping arrays

Array name ^a	Approximate no. of markers	Description	Link to data sheet	Kit size (no. of samples)
Infinium Global Screening Array-24	~ 665K	Provides a powerful, economical array for population-scale genomic studies. Content includes an imputation-optimized backbone for identifying new associations and clinical research content to screen for known and putative associations. Updated as of March 2018 for enhanced coverage in pharmacogenomics, ClinVar, HLA, and ACMG variants.	Data sheet	48
				288
				1152
Infinium Global Diversity Array-24	~ 1.8M	Provides the most cost-effective variant coverage within the Illumina human array portfolio. Content features exceptional, up-to-date coverage of clinical research variants associated with disease and pharmacogenetics. Includes a robust genome-wide scaffold from CAAPA, PAGE. Contains content not found in 1KGP, with more than 1000 whole-genome sequences of African ancestry and populations throughout the Americas, including the US, Caribbean, and Latin and South America.	Data sheet	48
				288
				1152
Infinium Asian Screening Array-24	~ 660K	Combines genome-wide coverage of East Asian populations, relevant clinical research content, and scalability to deliver a powerful, cost-effective tool for genomic screening. Built using an East Asian reference panel containing 9K whole-genome sequences. Includes coverage of populations underrepresented in the 1KGP and updated markers from ClinVar and PharmGKB.	Data sheet	48
				288
				1152
Infinium Human Core-24	~ 305K	Provides a cost-effective solution for large-scale genotyping studies with flexible capacity for add-on content or customization. Includes genome-wide tag SNPs and additional high-value markers.	Data sheet	48
				288
				1152
Infinium CoreExome-24	~ 550K	Combines content from the Infinium Human Core-24 BeadChip with content from the Infinium Exome-24 BeadChip.	Data sheet	48
				288
				1152
Infinium OmniExpress-24	~ 710K	Provides high LD coverage of common SNP variation with high-throughput capabilities of thousands of samples per week.	Data sheet	48
				288
				1152
Infinium OmniExpressExome-8	~ 960K	Combines content from the Infinium OmniExpress-24 BeadChip with content from the Infinium Exome-24 BeadChip.	Data sheet	16
				48
				96
				384
Infinium OmniZhongHua-8	~ 1.18M	Provides exceptional coverage of variation found within Chinese populations.	Data sheet	48
				96
				384
Infinium Multi-Ethnic Global-8	~ 1.78M	Provides a cost-effective solution for understanding complex disease in diverse populations. Features content from 1KGP, CAAPA, PAGE, T2D-GENES Consortium, OMIM, ClinVar, ACMG, carrier screening panels, and more. Designed for maximum imputation accuracy.	Data sheet	16
				48
				96
				384
Infinium Multi-Ethnic AMR/AFR-8	~ 1.43M	Contains content from the Infinium Multi-Ethnic Global BeadChip focused on Hispanic and African American populations.	Data sheet	16
				48
				96
				384

a. For more information, visit the Library Prep and Array Kit Selector at www.illumina.com/library-prep-array-kit-selector.html

Abbreviations: SNP: single nucleotide polymorphism; LD: linkage disequilibrium; 1KGP: 1000 Genomes Project; CAAPA: Consortium on Asthma among African-ancestry Populations in the Americas; PAGE: Population Architecture using Genomics and Epidemiology; T2D-GENES: Type 2 Diabetes Genetic Exploration by Next-generation sequencing in multi-Ethnic Samples; OMIM: Online Mendelian Inheritance in Man; ACMG: American College of Medical Genetics and Genomics.

Fixed Infinium genotyping arrays, continued

Array name	Approximate no. of markers	Description	Link to data sheet	Kit size (no. of samples)
Infinium Multi-Ethnic EUR/EAS/SAS-8	~ 1.48M	Contains content from the Infinium Multi-Ethnic Global BeadChip focused on European, East Asian, and South Asian populations.	Data sheet	16
				48
				96
				384
Infinium Omni2.5-8	~ 2.38M	Provides excellent coverage of common and intermediate SNPs with a design focus on high LD coverage across diverse world populations.	Data sheet	16
				48
				96
				384
Infinium Omni2.5Exome-8	~ 2.61M	Combines content from the Infinium Omni2.5-8 BeadChip with content from the Infinium Exome-24 BeadChip.	Data sheet	16
				48
				96
				384
Infinium Omni5-4	~ 4.32M	Provides a high-density array with exceptional coverage of common, intermediate, and rare SNPs.	Data sheet	16
				48
				96
				384
Infinium Omni5Exome-4	~ 4.56M	Combines content from the Infinium Omni5-4 BeadChip with content from the Infinium Exome-24 BeadChip.	Data sheet	16
				48
				96
				384
Infinium Exome-24	~ 245K	Provides exceptional coverage of putative functional exonic variants selected from over 12K individual whole-exome and whole-genome sequences.	Data sheet	48
				288
				1152
Infinium ImmunoArray-24	~ 250K	Provides a comprehensive, immunology-focused array containing expert-selected markers for common autoimmune diseases. Limited genome-wide coverage, but flexible options available to combine with various whole-genome wide backbones.	Data sheet	48
				288
				1152
Infinium OncoArray-24	~ 500K	Includes over 240K markers from Infinium Core-24 augmented with genetic variants associated with breast, colorectal, lung, ovarian, and prostate cancers. Developed in collaboration with the OncoArray consortium.	Data sheet	48
				288
				1152
Infinium PsychArray-24	~ 593K	Includes genetic variants associated with psychiatric predisposition and risk, developed in collaboration with the Psychiatric Genomics consortium. Based on the Infinium CoreExome-24 backbone.	Data sheet	48
				288
				1152
Infinium QC Array-24	~ 16K	Provides cost-effective sample quality control and tracking for biobanking and high-throughput genomics, offering robust fingerprinting resolution and high value content for sample stratification upstream from NGS or other processes.	Data sheet	48
				288
				1152

Semi-custom Infinium genotyping arrays

Array name	Add-on capacity	Description	Link to data sheet	Min. kit size ^P
Infinium Global Screening Array-24+	100K	Includes content from the Infinium Global Screening Array-24 BeadChip with the ability to add on custom content.	Data sheet	48
				288
				1152
Infinium Global Diversity Array-24+	175K	Includes content from the Infinium Global Diversity Array-8 BeadChip with the ability to add on custom content.	Data sheet	48
				288
				1152
Infinium Asian Screening Array-24+	50K	Includes content from the Infinium Asian Screening Array-24 BeadChip with the ability to add on custom content.	Data sheet	48
				288
				1152

Semi-custom Infinium genotyping arrays, continued				
Array name	Add-on capacity	Description	Link to data sheet	Min. kit size ^b
Infinium Core-24+	300K	Includes content from the Infinium Core-24 BeadChip with the ability to add on custom content.	Data sheet	48
				288
				1152
Infinium CoreExome-24+	100K	Includes content from the Infinium CoreExome-24 BeadChip with the ability to add on custom content.	Data sheet	48
				288
				1152
Infinium OmniExpress-24+	30K	Includes content from the Infinium OmniExpress-24 BeadChip with the ability to add on custom content.	Data sheet	48
				288
				1152
Infinium OmniExpressExome-8+	30K	Includes content from the Infinium OmniExpressExome-8 BeadChip with the ability to add on custom content.	Data sheet	16
				48
				96
				384
Infinium Multi-Ethnic Global-8+	250K	Includes content from the Infinium Multi-Ethnic Global-8 BeadChip with the ability to add on custom content.	Data sheet	16
				48
				96
				384
Infinium Multi-Ethnic AMR/AFR-8+	250K	Includes content from the Infinium Multi-Ethnic AMR/AFR-8 BeadChip with the ability to add on custom content.	Data sheet	16
				48
				96
				384
Infinium Multi-Ethnic EUR/EAS/SAS-8+	250K	Includes content from the Infinium Multi-Ethnic EUR/EAS/SAS-8 BeadChip with the ability to add on custom content.	Data sheet	16
				48
				96
				384
Infinium Exome-24+	400K	Includes content from the Infinium Exome-24 BeadChip with the ability to add on custom content.	Data sheet	48
				288
				1152
Infinium ImmunoArray-24+	390K	Includes content from the Infinium ImmunoArray-24 BeadChip with the ability to add on custom content.	Data sheet	48
				288
				1152
Infinium OncoArray-24+	120K	Includes content from the Infinium OncoArray-24 BeadChip with the ability to add on custom content.	Data sheet	48
				288
				1152
Infinium PsychArray-24+	60K	Includes content from the Infinium PsychArray-24 BeadChip with the ability to add on custom content.	Data sheet	48
				288
				1152
Epigenetics arrays				
Array name	Approximate no. of markers	Description	Link to data sheet	Min. kit size ^b
Infinium MethylationEPIC	~ 870K	Provides exceptional coverage of CpG islands, RefSeq genes, ENCODE open chromatin, ENCODE transcription factor binding sites, and FANTOM5 enhancers.	Data sheet	16
				32
				96
b. Number of bead types. Abbreviations: NGS: next-generation sequencing; RefSeq: Reference Sequence; ENCODE: Encyclopedia of DNA Elements.				

Cytogenetics and IVF arrays				
Array name	Approximate no. of markers	Description	Link to data sheet	Min. kit size ^b
Infinium HumanCytoSNP-12	~ 300K	Provides efficient, high-throughput analysis of genetic and structural variations that are highly relevant to human disease.	Data sheet	12
				24
				48
				288
				1152
Infinium CytoSNP-850K	~ 840K	Provides comprehensive coverage of cytogenomic-relevant genes for studies associated with congenital disorders and cancer.	Data sheet	8
				16
				48
				96
Infinium HumanKaryomap-12	~ 300K	Includes highly informative markers in the genome for insight into the inheritance of single-gene defects.	N/A	24

b. Number of bead types.

Consortia products^a

Array name	Approximate no. of markers	Description ^b	Min. kit size
Infinium Neuro Consortium Array	~ 490K	Developed in collaboration with the Neuro Array consortium, content includes the Infinium CoreExome-24 backbone and 180K markers associated with common neurodegenerative diseases.	48
			288
			1152
Infinium Global Screening Consortium Array	~ 710K	Provides a powerful, economical array for population-scale genomic studies. Content includes an imputation-optimized backbone for identifying new associations and clinical research content to screen for known and putative associations. Only available to consortium members.	48
			288
			1152
Infinium Japanese Screening Consortium Array	~ 735K	Combines an optimized Japanese genome-wide backbone with expertly selected, high value clinical research variants to create a highly informative, scalable genotyping array for population genomics screening and studies. Content includes informative tag SNPs in Japanese populations from the Asian Screening Array and new tag SNPs selected based on Japanese Whole Genome Sequences.	48
			288
			1152
Infinium DrugDev Consortium Array	~ 490K	Combines genome-wide tag SNP content from the Infinium Core-24 BeadChip with a novel, 180K custom marker set designed to support research studies of drug target discovery, validation, specificity, and treatment response.	48
			288
			1152

a. Illumina consortia products are community-driven and are supported as custom products.

Learn more

For more information on consortia arrays, visit www.illumina.com/applications/genotyping/consortia.html

For availability of other consortia arrays, contact consortiamanager@illumina.com. New products are regularly developed.

For more information on any of these products or to place an order, contact a genotyping specialist or a local sales representative:

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Other regions: www.illumina.com/company/contact-us.html