# Human Infinium<sup>™</sup> DNA microarrays

# Catalog products

#### Fixed Infinium genotyping arrays

Array name <sup>a</sup>	Approximate no. of markers	Description	Link to data sheet	Kit size (no. of samples)
Infinium Global		Provides a powerful, economical array for population-scale genomic studies. Content includes an imputation-optimized backbone for identifying		48
Screening Array-24	~ 665K	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	288
		Provides the most cost-effective variant coverage within the Illumina human array portfolio. Content features exceptional, up-to-date coverage of clinical		48
nfinium Global Diversity Array-24	~ 1.8M	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	Data sheet	288
		populations throughout the Americas, including the US, Caribbean, and Latin and South America.	Data sheet	1152
		Combines genome-wide coverage of East Asian populations, relevant clinical		48
nfinium Asian Screening Array-24	~ 660K	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	Data sheet	288
		1KGP and updated markers from ClinVar and PharmGKB.		1152
nfinium Human		Provides a cost-effective solution for large-scale genotyping studies with flexible		48
Core-24	~ 305K	capacity for add-on content or customization. Includes genome-wide tag SNPs and additional high-value markers.	Data sheet	288
				48
nfinium	~ 550K	Combines content from the Infinium Human Core-24 BeadChip with content from	Data sheet	288
CoreExome-24		the Infinium Exome-24 BeadChip.	Data sheet Data sheet Data sheet Data sheet Data sheet	1152
				48
nfinium OmniExpress-24	~ 710K	Provides high LD coverage of common SNP variation with high-throughput capabilities of thousands of samples per week.	Data sheet	288
JIIIIIEApress-24		capabilities of thousands of samples per week.		1152
				16
nfinium	00014	Combines content from the Infinium OmniExpress-24 BeadChip with content from	Data aka at	48
OmniExpressExome-8	~ 960K	the Infinium Exome-24 BeadChip.	Data sheet	96
			<ul> <li>data sheet</li> </ul>	384
				16
nfinium			data sheetData sheet-Data sheet-<	48
OmniZhongHua-8	~ 1.18M	Provides exceptional coverage of variation found within Chinese populations.	Data sheet	96
				384
				16
nfinium Multi-Ethnic		Provides a cost-effective solution for understanding complex disease in diverse populations. Features content from 1KGP, CAAPA, PAGE, T2D-GENES		48
Global-8	~ 1.78M	Consortium, OMIM, ClinVar, ACMG, carrier screening panels, and more. Designed	Data sheet	96
		for maximum imputation accuracy.		384
				16
Infinium Multi-Ethnic AMR/AFR-8		Contains content from the Infinium Multi-Ethnic Global BeadChip focused on		48
	~ 1.43M	Hispanic and African American populations.	Data sheet	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 puckettide polymorphism: I.D: linkage disequilibrium: 1KGP: 1000 Genomes Project: CAAPA: Consort

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.

Array name	Approximate no. of markers	Descript	ion	Link to data shee		it size f samples)
						16
Infinium Multi-Ethnic	~ 1.48M	Contains	content from the Infinium Multi-Ethnic Global BeadChip focused on	Data shee	+	48
EUR/EAS/SAS-8	~ 1.40101	Europear	n, East Asian, and South Asian populations.	Data Shee		96
						384
						16
nfinium Omni2.5-8	~ 2.38M	Provides	excellent coverage of common and intermediate SNPs with a design	Data abaa	+	48
Ininium Omniz.5-6	~ 2.30111	focus on	high LD coverage across diverse world populations.	Data shee		96
						384
						16
nfinium	~ 2.61M	Combine	s content from the Infinium Omni2.5-8 BeadChip with content from the	Data abaa		48
Omni2.5Exome-8	~ 2.0111	Infinium E	Exome-24 BeadChip.	Data shee	ι —	96
						384
						16
nfinium OnaniE 4	4.00M	Provides	a high-density array with exceptional coverage of common, intermediate,	Data abaa		48
nfinium Omni5-4	~ 4.32M	and rare	SNPs.	Data shee	t	96
						384
						16
Infinium	4 5014	Combine	s content from the Infinium Omni5-4 BeadChip with content from the			48
Omni5Exome-4	~ 4.56M		- xome-24 BeadChip.	Data shee	t ——	96
						384
						48
nfinium Exome-24	~ 245K		exceptional coverage of putative functional exonic variants selected from	Data shee	t	288
		over 12K	individual whole-exome and whole-genome sequences.			1152
		Drovidoo	a comprehensive, immunology focused array containing expert colocted			48
Infinium	~ 250K		a comprehensive, immunology-focused array containing expert-selected for common autoimmune diseases. Limited genome-wide coverage, but	Data shee	t	288
ImmunoArray-24		flexible op	otions available to combine with various whole-genome wide backbones.			1152
		Includes	aver 0.401/ markers from Infinium Care 0.4 avernanted with constin			48
Infinium OncoArray-24	~ 500K		over 240K markers from Infinium Core-24 augmented with genetic associated with breast, colorectal, lung, ovarian, and prostate cancers.	Data shee	t	288
,			d in collaboration with the OncoArray consortium.			1152
		la alcala a				48
Infinium	~ 593K		genetic variants associated with psychiatric predisposition and risk, d in collaboration with the Psychiatric Genomics consortium. Based on	Data shee	t	288
PsychArray-24			im CoreExome-24 backbone.			1152
						48
Infinium QC Array-24	~ 16K		cost-effective sample quality control and tracking for biobanking and upput genomics, offering robust fingerprinting resolution and high value	Data shee	t	288
		0	or sample stratification upstream from NGS or other processes.			1152
Semi-custom Infinium	genotyping array	S				
Array name		Add-on	Description		Link to	Min.
andy hamo		capacity	Decomption	(	data sheet	kit size <sup>b</sup>
			Includes content from the Infinium Global Screening Array-24 BeadChip wi	th the		48
nfinium Global Screenin	ng Array-24+	100K	ability to add on custom content.		Data sheet	288
						1152
			Includes contact from the Infinium Clobal Diversity Array & Decelobic with t	ho		48
nfinium Global Diversity	Array-24+	175K	Includes content from the Infinium Global Diversity Array-8 BeadChip with t ability to add on custom content.	нe	Data sheet	288
			•			1152
						48
Infinium Asian Screening	g Array-24+	50K	Includes content from the Infinium Asian Screening Array-24 BeadChip with ability to add on custom content	n the	Data sheet	288

#### Fixed Infinium genotyping arrays, continued

ability to add on custom content.

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Semi-custom Infinium genotyping arra	ays, continue	ed			
Array name	Add-on capacity	Description		Link to data sheet	Min. kit size <sup>b</sup>
		Includes contact from the Infinium Oaks 04 DeadOhip with the shift its ad	dan		48
Infinium Core-24+	300K	Includes content from the Infinium Core-24 BeadChip with the ability to ad- custom content.	d on	Data sheet	288
					1152
					48
Infinium CoreExome-24+	100K	Includes content from the Infinium CoreExome-24 BeadChip with the ability on custom content.	y to add	Data sheet	288
					1152
			1		48
Infinium OmniExpress-24+	30K	Includes content from the Infinium OmniExpress-24 BeadChip with the abil add on custom content.	iity to	Data sheet	288
					1152
					16
Infinium OmniExpressExome-8+	30K	Includes content from the Infinium OmniExpressExome-8 BeadChip with th	ne ability	Data sheet	48
Initiation OfficiesSEX0ffie-o+	JUK	to add on custom content.		Data Sheet	96
					384
					16
		Includes content from the Infinium Multi-Ethnic Global-8 BeadChip with the	e ability		48
Infinium Multi-Ethnic Global-8+	250K	to add on custom content.		Data sheet	96
					384
					16
		Includes content from the Infinium Multi-Ethnic AMR/AFR-8 BeadChip with	the		48
Infinium Multi-Ethnic AMR/AFR-8+	250K	ability to add on custom content.		Data sheet	96
					384
					16
		Includes contant from the Infinium Multi Ethnic ELID/EAS/CAS & ReadObin	with the		48
Infinium Multi-Ethnic EUR/EAS/SAS-8+	250K	250K Includes content from the Infinium Multi-Ethnic EUR/EAS/SAS-8 BeadChip w ability to add on custom content.	with the	Data sheet	96
					384
					48
Infinitum Examp 0.4	4001/	Includes content from the Infinium Exome-24 BeadChip with the ability to a	add on	Data abaat	
Infinium Exome-24+	400K	custom content.		Data sheet	288
					1152
	0001/	Includes content from the Infinium ImmunoArray-24 BeadChip with the abi	lity to		48
Infinium ImmunoArray-24+	390K	add on custom content.		Data sheet	288
					1152
		Includes content from the Infinium OncoArray-24 BeadChip with the ability	to add		48
Infinium OncoArray-24+	120K	on custom content.		Data sheet	288
					1152
		Includes content from the Infinium PsychArray-24 BeadChip with the ability	/ to add		48
Infinium PsychArray-24+	60K	on custom content.		Data sheet	288
					1152
Epigenetics arrays					
Array name Approximate no. of markers	Descript	tion	Link to data she		Min. t size⁵
					16
Infinium MethylationEPIC ~ 870K		exceptional coverage of CpG islands, RefSeq genes, ENCODE open	Data she	et	32
Motifyiationer 10	GHUHAU	omatin, ENCODE transcription factor binding sites, and FANTOM5 enhancers.			96

Number of bead types.
 Abbreviations: NGS: next-generation sequencing; RefSeq: Reference Sequence; ENCODE: Encyclopedia of DNA Elements.

Array name	Approximate no. of markers	Description	Link to data sheet	Min. kit size <sup>b</sup>
				12
	toSNP-12 ~ 300K Provides efficient, high-throughput analysis of genetic and structural variations that are highly relevant to human disease.		24	
nfinium HumanCytoSNP-12			Data sheet	
		alo highly followart to harhar diodado.		288
				1152
			Data sheet	8
nfinium	nium F	Provides comprehensive coverage of cytogenomic-relevant genes for studies associated with congenital disorders and cancer.		16
CytoSNP-850K	~ 840K			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<sup>a</sup>

Array name	Approximate no. of markers	Description <sup>b</sup>	Min. kit size
	~ 490K	Developed in collaboration with the Neuro Array consortium, content includes the	
Infinium Neuro Consortium Array		Description <sup>b</sup> Developed in collaboration with the Neuro Array consortium, content includes the Infinium CoreExome-24 backbone and 180K markers associated with common neurodegenerative diseases.         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.         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.         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	288
			1152
	~ 710K	Provides a powerful, economical array for population-scale genomic studies.	
Infinium Global Screening Consortium Array		associations and clinical research content to screen for known and putative	288
			1152
Infinium Japanese Screening	um Japanese Screening sortium Array~ 735Khigh 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		
			288
Consolition Array		1152	
Infinium DrugDev Consortium Array	~ 490K		

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: North America: 800.809.4566

Europe, Middle East, Africa: +44.1799.534000

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

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