

Infinium™ Omni2.5Exome-8 v1.5 BeadChip

Comprehensive coverage and functional exonic content for genotyping, GWAS, and CNV analysis.

Overview

The Infinium Omni2.5Exome-8 v1.5 BeadChip (Figure 1) delivers comprehensive coverage of common, rare, and exonic single nucleotide polymorphism (SNP) content from the 1000 Genomes Project, providing maximum genomic information of diverse world populations (Table 1). With combined markers from the Infinium Omni2.5-8 and Infinium Exome-24 BeadChips, the Infinium Omni2.5Exome-8 v1.5 BeadChip is a powerful tool for next-generation genotyping and genome-wide association studies (GWAS). Using the proven iScan™ System and integrated analysis software, the 8-sample Infinium Omni2.5Exome-8 v1.5 BeadChip offers high throughput, optimized tag SNPs, functional exonic content, and fully supported copy number variation (CNV) analysis. Combined with convenient packaging and a streamlined PCR-free protocol, the Infinium Omni2.5Exome-8 v1.5 BeadChip provides a comprehensive DNA analysis solution.



Figure 1: The Infinium Omni2.5Exome-8 v1.5 BeadChip—The Infinium Omni2.5Exome-8 v1.5 BeadChip supports rapid GWAS with coverage of common, rare, and functional variants from the 1000 Genomes Project.

Table 1: Product information

Feature	Description		
Species	Human		
Total number of markers	2,618,000		
Number of samples per BeadChip	8 samples		
DNA input requirement	200 ng		
Assay chemistry	Infinium LCG		
Instrument support	iScan System		
Data performance	Value ^a	Product specification ^b	
Call rate	99.8%	> 99% avg.	
Reproducibility	99.99%	> 99.9%	
Log R deviation	0.11	< 0.30 ^c	
Spacing	Mean	Median	90th% ^c
Spacing (kb)	1.11	0.56	2.63

- a. Values are derived from genotyping 458 HapMap reference samples.
- b. Excludes Y chromosome markers for female samples.
- c. Value expected for typical projects using standard Illumina protocols. Tumor samples and samples prepared by methods other than standard Illumina protocols are excluded.

Ordering information

Infinium Omni2.5Exome-8 v1.5 Kit	Catalog no.
16 samples	20037367
48 samples	20037368
96 samples	20037369
384 samples	20037370

Learn more

To learn more about the Infinium Omni2.5Exome-8 v1.5 BeadChip and other Illumina genotyping products and services, visit www.illumina.com/genotyping