

Infinium™ Omni2.5-8 v1.5 BeadChip

Next-generation GWAS content for genotyping and CNV analysis.

Overview

The Infinium Omni2.5-8 v1.5 BeadChip delivers comprehensive coverage of both common and rare single nucleotide polymorphism (SNP) content from the 1000 Genomes Project designed to be maximally informative for diverse world populations. Using the proven iScan™ System, the 8-sample Infinium Omni2.5-8 v1.5 BeadChip (Figure 1) offers high-throughput and optimized tag SNP content, including full support of copy number variation (CNV) applications (Table 1). The Infinium Omni2.5-8 v1.5 BeadChip is a powerful entry point into the Omni Roadmap, which provides researchers with step-wise, flexible access to more than 2.3 million variants per sample. Convenient kit packaging, a streamlined PCR-free protocol, and integrated analysis software are included to provide a comprehensive DNA analysis solution.



Figure 1: The Infinium Omni2.5-8 v1.5 BeadChip—The Infinium Omni2.5-8 v1.5 BeadChip supports rapid studies with coverage of common and rare variants from the 1000 Genomes Project, down to 2.5% minor allele frequency (MAF).

Table 1: Product information

Feature	Description		
Species	Human		
Total number of markers	~ 2,381,000		
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)	1.23	0.65	2.82

- 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 Omni2.5-8 v1.5 Kit	Catalog no.
16 samples	20037363
48 samples	20037364
96 samples	20037365
384 samples	20037366

Learn more

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