

Table 4: Multi-Ethnic AMR/AFR BeadChip Marker Information

Marker Category		No. of Markers		
Exonic Markers		381,196		
Intronic Markers		499,952		
Nonsense Markers		10,587		
Missense Markers		318,693		
Synonymous Markers		18,163		
Mitochondrial Markers		645		
Indels		11,779		
Sex Chromosomes		X 39,165	Y 2360	PAR / Homologous 3753

Ordering Information

Infinium Multi-Ethnic AMR/AFR-8 v1.0 Kit	Catalog No.
16 samples	20001090
48 samples	20001091
96 samples	20001092
384 samples	20001093
Infinium Multi-Ethnic AMR/AFR-8+ v1.0 Kit ^a	Catalog No.
16 samples	20001094
48 samples	20001095
96 samples	20001096
384 samples	20001097
a. Enabled for additional custom content.	

Learn More

To learn more about the Infinium Multi-Ethnic AMR/AFR v1.0 BeadChip and other Illumina genotyping products and services, visit www.illumina.com/techniques/popular-applications/genotyping.html

References

- 1000 Genomes (www.1000genomes.org). Accessed July 21, 2015.
- COSMIC: Catalogue of somatic mutations in cancer (<http://cancer.sanger.ac.uk/cosmic>). Accessed July 21, 2015.
- Gene Ontology Consortium (www.geneontology.org). Accessed July 21, 2015.

Table 5: Multi-Ethnic AMR/AFR BeadChip High-Value Content

Content	No. of Markers	Research Application / Note
ADME Core and Extended Genes ^a	14,981	Drug metabolism and excretion
ADME Core and Extended Genes ^a +/- 10 kb	18,114	Drug metabolism and excretion (+ regulatory regions)
APOE	75	Cardiovascular disease, Alzheimer's disease, immunoregulation, and cognition
Blood Phenotype Genes	2667	Blood phenotypes
COSMIC Genes ^a	754,633	Somatic mutations in cancer
GO CVS Genes ^a	200,973	Cardiovascular conditions
Database of Genomic Variants	1,120,149	Genomic structural variation
eQTLs	6025	Genomic loci regulating mRNA expression levels
Fingerprint SNPs	474	Human identification
HLA Genes	833	Disease defense, transplant rejection, and autoimmune disorders
Extended MHC ^a	16,050	Disease defense, transplant rejection, and autoimmune disorders
KIR ^a	117	Autoimmune disorders and disease defense
Neanderthal SNPs	1705	Neanderthal ancestry and human population migration
NHGRI GWAS Catalog ^a	10,053	Markers from published genome- wide association studies
RefSeq 3' UTRs	34,398	3' untranslated regions of known genes
RefSeq 5' UTRs	23,818	5' untranslated regions of known genes
RefSeq All UTRs	56,579	All untranslated regions of known genes
RefSeq	830,329	All known genes
RefSeq +/-10 kb	933,485	All known genes +/- 10 kb to include regulatory regions
RefSeq Promoters	33,503	2 kb 5' of all known genes to include promoter regions
RefSeq Splice Regions	4947	Variants at splice sites in all known genes
a. ADME: absorption, distribution, metabolism, and excretion; COSMIC: catalog of somatic mutations in cancer ² ; GO CVS: Gene Ontology annotation of the cardiovascular system ³ ; eQTL: expression quantitative trait loci; HLA: human leukocyte antigen; KIR: killer cell Ig-like receptor; MHC: major histocompatibility complex; NHGRI: national human genome research institute.		

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