



Table 5: Multi-Ethnic Global BeadChip High-Value Content

Content	No. of Markers	Research Application / Note
ADME Core and Extended Genes <sup>a</sup>	18,234	Drug metabolism and excretion
ADME Core and Extended Genes <sup>a</sup> +/- 10 kb	21,955	Drug metabolism and excretion (+ regulatory regions)
APOE	91	Cardiovascular disease, Alzheimer's disease, immunoregulation, and cognition
Blood Phenotype Genes	2766	Blood phenotypes
COSMIC Genes <sup>a</sup>	901,123	Somatic mutations in cancer
GO CVS Genes <sup>a</sup>	243,272	Cardiovascular conditions
Database of Genomic Variants	1,360,391	Genomic structural variation
eQTLs	6100	Genomic loci regulating mRNA expression levels
Fingerprint SNPs	475	Human identification
HLA Genes	849	Disease defense, transplant rejection, and autoimmune disorders
Extended MHC <sup>a</sup>	16,526	Disease defense, transplant rejection, and autoimmune disorders
KIR <sup>a</sup>	121	Autoimmune disorders and disease defense
Neanderthal SNPs	2012	Neanderthal ancestry and human population migration
NHGRI GWAS Catalog <sup>a</sup>	10,061	Markers from published genome- wide association studies
RefSeq 3' UTRs	40,175	3' untranslated regions of known genes
RefSeq 5' UTRs	26,988	5' untranslated regions of known genes
RefSeq All UTRs	65,229	All untranslated regions of known genes
RefSeq	992,773	All known genes
RefSeq +/-10 kb	1,119,262	All known genes +/- 10 kb to include regulatory regions
RefSeq Promoters	39,280	2 kb 5' of all known genes to include promoter regions
RefSeq Splice Regions	10,338	Variants at splice sites in all known genes

a. ADME: absorption, distribution, metabolism, and excretion; COSMIC: catalog of somatic mutations in cancer<sup>2</sup>; GO CVS: Gene Ontology annotation of the cardiovascular system<sup>2</sup>; 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.

Infinium Multi-Ethnic Global-8 v1.0 Kit	Catalog No.
16 samples	WG-316-1001
48 samples	WG-316-1002
96 samples	WG-316-1003
384 samples	WG-316-1004
Infinium Multi-Ethnic Global-8+ v1.0 Kit <sup>a</sup>	Catalog No.
16 samples	WG-316-1011
48 samples	WG-316-1012
96 samples	WG-316-1013
384 samples	WG-316-1014

a. Enabled for additional custom content.

To learn more about the Infinium Multi-Ethnic Global v1.0 BeadChip and other Illumina genotyping products and services, visit [www.illumina.com/techniques/popular-applications/genotyping.html](http://www.illumina.com/techniques/popular-applications/genotyping.html)

1. 1000 Genomes ([www.1000genomes.org](http://www.1000genomes.org)). Accessed July 21, 2015.
2. COSMIC: Catalogue of somatic mutations in cancer (<http://cancer.sanger.ac.uk/cosmic>). Accessed July 21, 2015.
3. Gene Ontology Consortium ([www.geneontology.org](http://www.geneontology.org)). Accessed July 21, 2015.

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