

Table 2: Genotype Concordance

Dataset	No. Samples	No. Loci	% Concordance
HapMap	269	1030	99.66%
SNP500	102	809	99.90%

receptor protein signaling. The distribution of SNPs by gene region includes >300 coding SNPs of which 158 cause amino acid changes in the resulting protein (Figure 2). In the Cancer SNP Panel, >3 SNP assays were selected, on average, for each gene represented (Table 3).

Illumina Solutions For Genotyping

The high-quality data and low cost per genotype of the Illumina Cancer SNP Panel are made possible by powerful Illumina technologies that include the GoldenGate Assay with multi-sample Sentrix® Array Matrix and BeadChip formats. Illumina's genotyping solutions enable linkage and association mapping, as well as high-resolution, genome-wide scans. Whether utilizing standard or custom content, Illumina genotyping panels can be accessed via FastTrack Genotyping Services or with an Illumina System. Illumina solutions lead the industry in accuracy, flexibility and affordability.

References

- Packer, B.R., Yeager, M., Staats, B., Welch, R., Crenshaw, A., Kiley, M., Eckert, A., Beerman, M., Miller, E., Bergen, A., Rothman, N., Strausberg, R., Chanock, S.J. (2004). SNP500Cancer: a public resource for sequence validation and assay development for genetic variation in candidate genes. *Nucleic Acids Res.* Jan 1; 32 Database issue: D528-32. <http://snp500cancer.nci.nih.gov/>
- The International HapMap Consortium. (2003). The International HapMap Project. *Nature* 426, 789-796. <http://www.hapmap.org>

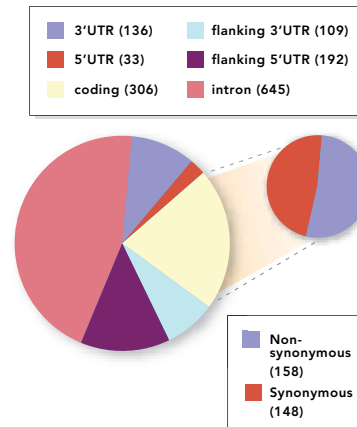
Additional Information

To learn more about the Cancer SNP Panel or other Illumina products and services, visit our website or contact us.

Ordering Information

Catalog No.	Product	Description
GT-17-211	Cancer SNP Panel	One oligo pool (OPA) for 1,421 SNP loci residing in cancer candidate genes sufficient for 96 samples.
GT-95-201	Single-Use Activation Kit (576 Samples)	Used in combination with the GoldenGate Assay Kit. Contains reagents for six, 96-well plates of samples.
GT-95-206	GoldenGate Assay Kit II with UDG (96 Samples)	Prepares genotyping reactions for 96 DNA samples. Contains UDG enzyme for contamination control.
FA-12-109	Sentrix Universal-96 Array Matrix	One Sentrix Universal-96 Array Matrix can process 96 samples and up to 1536 assays/sample.

Figure 2: Distribution of SNPs by Gene Region



Distribution of SNPs within the Cancer SNP Panel are shown by gene region. The number of SNP assays per region are listed within parentheses.

Table 3: SNP Coverage Per Gene

Mean SNPs/gene	3.5
Median SNPs/gene	3.0
Minimum SNPs/gene	1
Maximum SNPs/gene	23
Total genes	408
Total SNPs	1421

On average, >3 SNPs per gene are included on the Cancer SNP Panel for a total 1,421 SNPs.

FOR RESEARCH USE ONLY