



Provides a cost-effective solution for accurate detection of copy number variants (CNVs), loss of heterozygosity (LOH), mosaicism, uniparental disomy (UPD), and polyploidy.

Targets coverage of more than 4800 cytogenetic related key genes across the genome

Provides optimized content for a broad range of applications, ensuring high-quality and reproducible data.

Contains ~700 K markers for high exonic coverage in regions of disease relevance, providing highly accurate copy number variation calls, and a high resolution of about 10kb for target regions.

Uses inhouse build database (~15000 data) and research databases to support variant annotations and provides phenotype-associated variant ranking.

Provides results that are in compliance with the current American College of Medical Genetics and Genomics (ACMG) guidelines.

KaryoTrack has extensive coverage of phenotypes and diseases such as Neurological, Cancer, Cardiovascular, Endocrine & Metabolic, Hematological, Newborn and others (Figure 1a and Figure 1b).

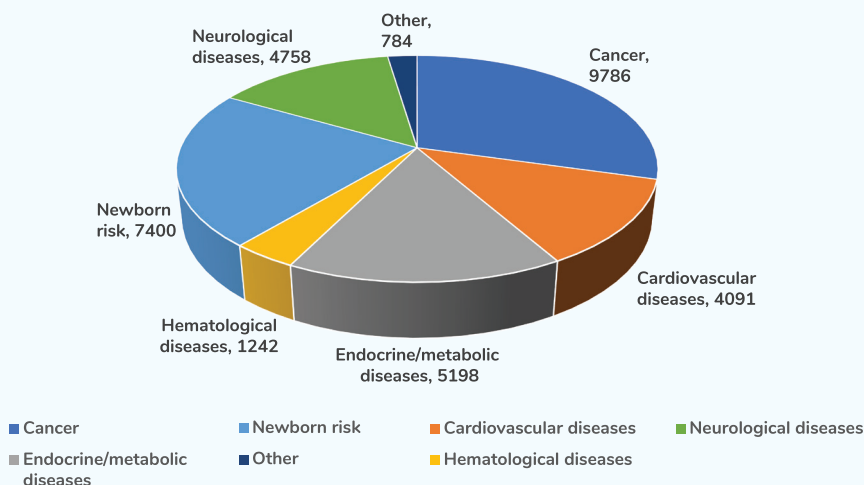


Figure 1a: Disease research content by category



KaryoTrack provides optimal coverage of key genes with spacing that supports CNV analysis. Cytogenetic application tiers include:

[illegible]

KaryoTrack is an internally validated SNP array based test that has been validated using samples from various sources, including chorionic villus sampling (CVS), amniotic fluid (AF), cultured amniotic fluid, cord blood/cardiac blood products of conception tissue (POC), peripheral blood, direct DNA, and DNA isolated from cell lines or cultured cells.

KaryoTrack results have shown 100% concordance with other orthogonal method. This test can detect and report copy number variations (CNVs) from as few as a few exons (12.5 Kb) to whole chromosomal aberrations. The presence of SNP probes helps in the detection of regions of homozygosity, mosaicisms, uniparental disomy (UPD), and polyploidy.

| Chipset    | No. of markers | Detection of AOH/LOH | Resolution target | Spacing on tiers (Avg/Median) | % Tired exons well covered | Year Design |
|------------|----------------|----------------------|-------------------|-------------------------------|----------------------------|-------------|
| KaryoTrack | ~700 K         | <3 Mb                | ~10 Kb            | ~2 kb/~1 kb                   | ~98%                       | 2020        |

| Test Code | Test Name                              | Sample requirements   | Sample Transportation | TAT             |
|-----------|--|---|-----------------------|-----------------|
| MGM2741   | KaryoTrack                             | Chorionic Villus Sampling (CVS)/Amniotic Fluid (AF)/ Cultured Amniotic Fluid / Cord Blood / Cardiac Blood / Products of Conception Tissue (POC) / Peripheral Blood, Direct DNA / DNA Isolated from Cell Lines or Cultured Cells | Shipped at 2-8 °C     | 14 working days |
| MGM2758   | KaryoTrack with Prenatal Cell Culture* | Amniotic Fluid (AF)   |                       | 21 working days |

\*If required



 1800 103 3691

 [diagnostics@medgenome.com](mailto:diagnostics@medgenome.com)

