KROMATID

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KROMASURE™ Screen

dGH for Genomic Integrity

KromaSure Screen is one of Kromatid's flagship assays which provides unbiased, high-sensitivity karyotyping for chromosome mutation profiling and genomic integrity assessment. KromaSure Screen is a whole genome molecular cytogenetic karyotyping method which provides strand-specific DNA orientation insights and unparalleled sensitivity for detecting chromosome mutations, including translocations, inversions and insertions as small as 20kb.

A next-generation, hybridization-based technique that enables chromosome structural analysis with unmatched precision, ensuring researchers make confident, data-driven decisions in advancing cell and gene therapies.

FLUORESCENT WHOLE GENOME KARYOTYPING

- Single cell karyotype of hundreds of individual metaphase spreads
- Cytogenetic detection and characterization of low-prevalence events in heterogeneous cell populations
- Cross-sample analysis and comprehensive reporting
- Cell-based assay for orthogonal validation of structural variants flagged by NGS
- Has been included in IND filings

WHAT IT DETECTS

- Translocation events
- Inter-chromosomal events
- Aneuploidy
- Sister Chromatid Exchange Events
- Sister chromatid fusions
- Centric Ring and/or Iso-Chromosome Formations
- Chromosome Truncations
- Complex Events, including:
  - Chromosome Whole Arm Deletion
  - Scentromere Abnormalities
  - Whole-arm gain or multi-radial chromosomes
  - chromatid-type and chromosome-type breaks,
  - chromothripsis/ fragmentation and the formation of ecDNA
  - dicentric and other multice ntric chromosomes
  - acentric chromosomes, and complex exchange events