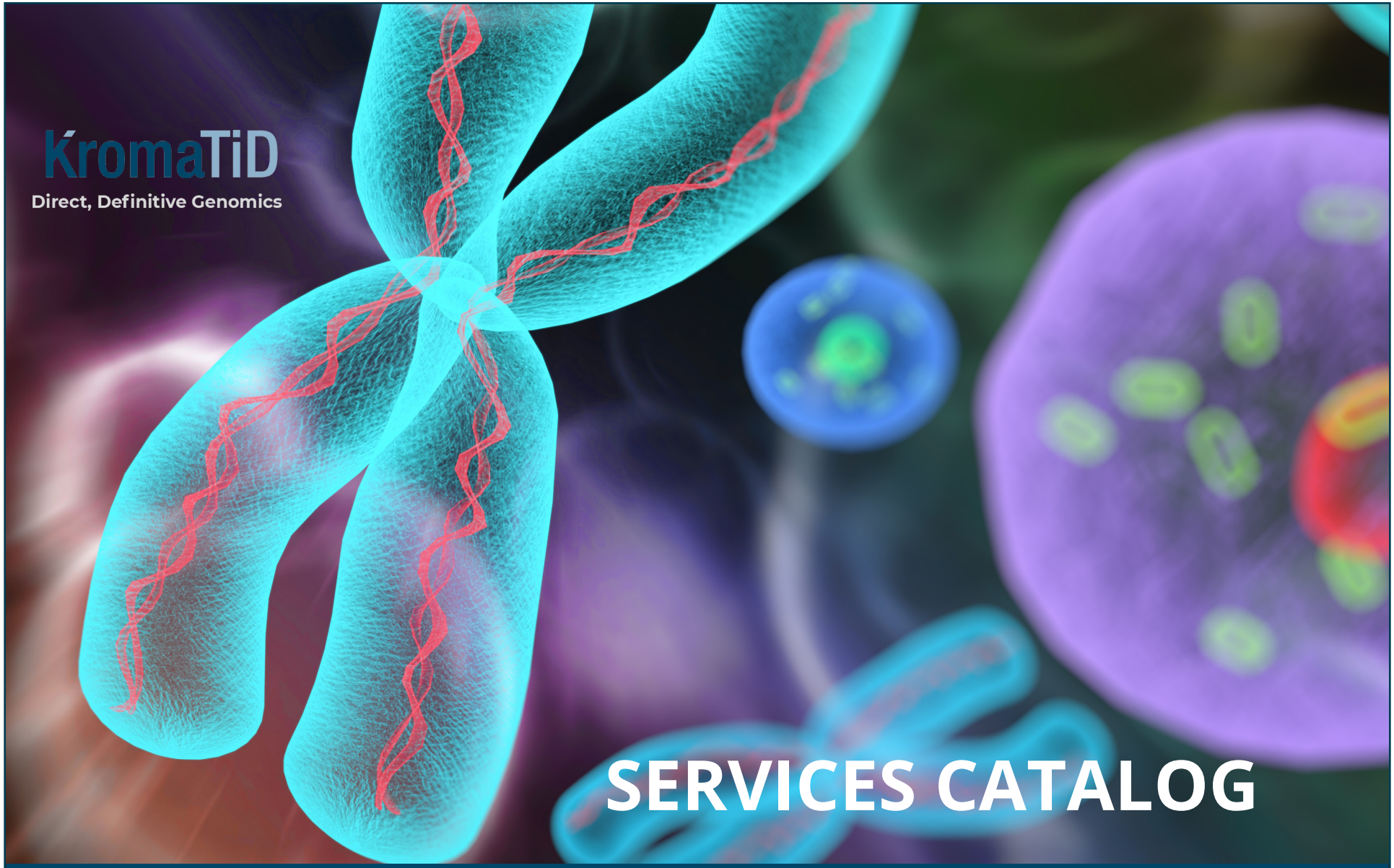

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dGH in-Site™ Assays

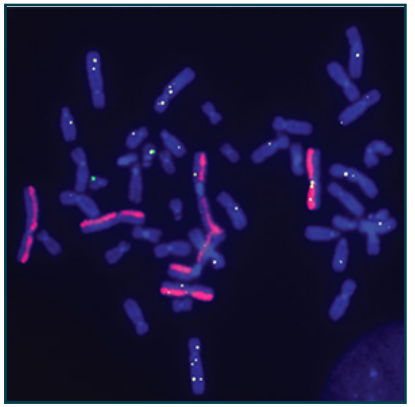
Unlock the power of dGH in-Site™ to monitor your genome editing results.

dGH in-Site™ can track your genome editing outcomes with the highest single-cell cytogenetic resolution available. Detect and differentiate any genomic target including inversions as small as 2kb. For gene therapy applications, dGH in-Site™ tracks on and off-target transgene integrations throughout the genome.

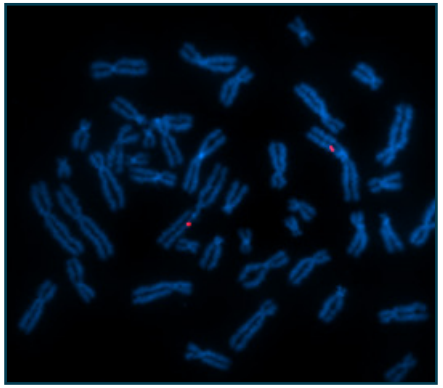
Key Benefits:

- Tracking of Transgenes and Quantification of Insertional Copy Number (ICN).
- Detailed Characterization of Structural Variations from Edit Site Misrepairs.
- Single-Cell Assessment of Integration Distribution and Orientation of Integrants.
- Cell Population-Wide Abnormality and Integration Outcome Distribution
- Discovery of Structural Variations Not Detected by Other Methods
- Clone Verification: Ensure the Presence and Correctness of Your Inserted Vector.

Leverage our dGH in-Site™ assay services to pinpoint the structural variations most relevant to your cell engineering research. By comparing outcomes before and after cell engineering, this method provides the most comprehensive assessment of structural heterogeneity available. Unearth variation events overlooked by conventional sequencing methods.



Custom dGH in-Site™ assay in metaphase cell featuring control paint (Atto 550), reference probe indicating target locus (6-FAM), and transgene probe (Atto 643) indicating insertions.



Custom CD247 in-Site™ labeled in Atto 550 on lymphoblastoid cell line

dGH SCREEN™ Assays

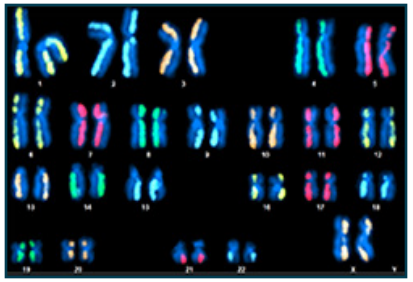
Monitor genomic stability, and structural variants as small as 5kb.

The dGH SCREEN™ assay uncovers unsuspected numerical and structural variation throughout the genome in one test. Its single-cell data output provides a picture of abnormality distribution within a cell sample and across samples, yielding potential insights for cell line stability, rare disease discovery and genotoxicity.

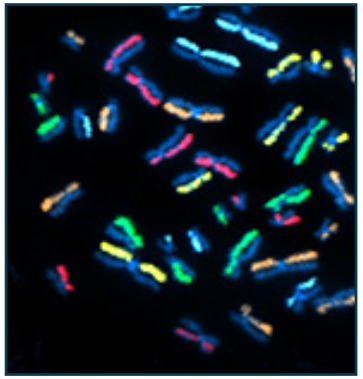
- Exchange Events: Balanced, Unbalanced and Translocations.
- Orientation Events: Including Inversions and Sister Chromatid Exchanges.
- Gain and Loss Events: Aneuploidy and Polypoidy.
- Clone Verification: Obtain Clone Line Stability Assessments.

dGH SCREEN™ monitors cellular engineering outcomes providing you a genome-wide chromosomal structure assessment on a single-cell and single-chromosome scale before and after modification.

Access data that provides quality control for structural integrity and serves to confirm rearrangements predicted with long read analyses. Compare candidate cell lines on total genomic structural variation metrics over time for a comprehensive genomic stability assessment.



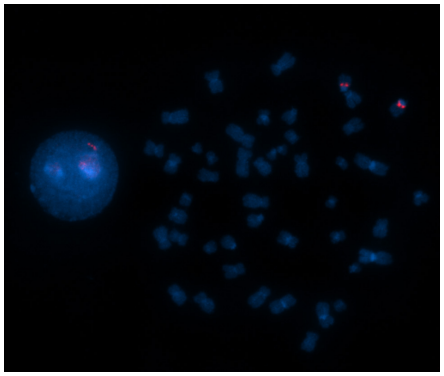
Custom CD247 in-Site™ labeled in Atto 550 on lymphoblastoid cell line

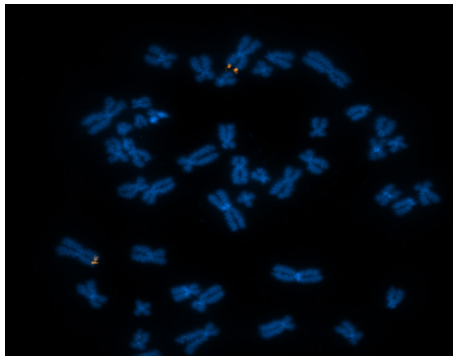


dGH SCREEN™ in lymphoblastoid metaphase spread

Pinpoint FISH™ Assays

High resolution FISH assays for tracking DNA targets.





Introducing Pinpoint FISH™, an innovative synthetic oligonucleotide-based FISH assay meticulously engineered to deliver unrivaled precision, minimal background interference, and the industry's most exceptional limit of detection.

Key Benefits:

- Complete Assay Solution: Pinpoint FISH™ services offer a Comprehensive Solution, Including Assay Execution, Imaging, and Scoring.
- Versatile Application: Suitable for Analyzing Samples in Both Interphase and Metaphase
- Multiplex Capability: Empowers you to Create Customized Datasets by Multiplexing.
- Repetitive Sequence-Free: Designed to Exclude Repetitive Sequences for Clearer Results.
- Target Specificity: Ensures a Higher Signal-to-Noise Ratio by Eliminating Cross-Hybridization.
- Consistent Hybridization Quality: Reliably Maintains Hybridization Quality.

With Pinpoint FISH™ assays, you gain the ability to detect variations starting at 10kb in metaphase spreads and dissociated cells. Custom probes are can be tailored to your specific research needs. Experience the future of FISH assays with Pinpoint FISH™.

G-Band Karyotyping QC Services

Support your pipeline therapy, from early research to pivotal batch analysis.

RUO or start a study plan with KromaTiD to qualify G-banded karyotyping as a release test for your clinical batches or regulatory filings or clinical batch testing using our unique G-Banding genomic integrity assessment.

KromaTiD G-Banding Services:

- Culture Development for Adherent/Suspension Cells, Lymnphoids, NK Cells, iPSCs, Immune Cells, and Whole Blood.
- Metaphase Harvest and Slide Preparation.
- Chromosome Staining, Imaging and Analysis.
- Standard Karyotyping Report includes Karyograms for Events from the Final Sample karyotype.
- Our Unique Genomic Integrity G-Band Karyotyping Includes Wild Type and Treated Karyotype Reports. Genomic Integrity Report of Statistical Significance Comparison on Wild Type and Treated Samples.
- Assess Population Stability and Monitor for Clonal Outgrowth.

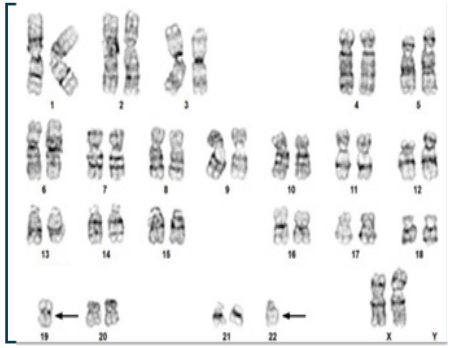
Track chromosomal changes, detect inversions, translocations and aneuploidy with our G-Band Karyotyping Services for QC assessment.

GI Karyotyping QC Services

Develop a Study Plan with KromaTiD to Support Your Cell Therapy Development.

Developed by KromaTiD to meet the unique needs of cell & gene therapy programs. Supports all stages of development from R&D to release of drug product.

- Research > Preclinical > Clinical Batch Release
- Detection of edit associated and other structural variants at prevalence as low as 0.5%.
- Our Genomic integrity Karyotyping reports include detailed structural analysis and individual karyotype of each cell plus the overall karyotype for each sample.
- A genomic integrity comparison can also be provided highlighting the variances between unmodified donor cells and the cell and gene therapy drug product.
- KromaTiD Genomic Integrity reports provide a highly detailed analysis for every cell in each sample including enumeration of 28 types of chromosomal rearrangement events.



KromaTiD can qualify any of our kayrotyping services against your drug product specifications and provide a customized, Genomic Integrity Drug Product Release Test to help accelerate your products to market.

Cytogenetic Assays for Genomic Integrity

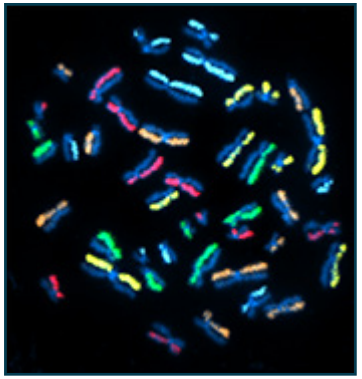
Cytogenetic assays to assist with your therapeutic pipeline genomic integrity assessment and quality control.

Collaborate with us to develop study plans so you can evaluate your methods and quality control assessments using our cytogenetic assays.

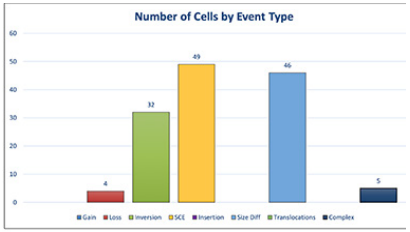
The Power of Our Assay Package:

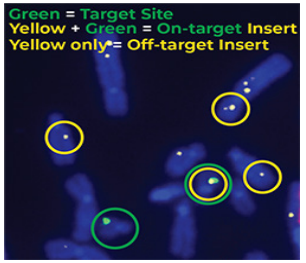
- dGH in-Site™ excels in identifying structural variations, on- and off-target gene-editing analysis with precision and unprecedented resolution. It allows you to delve deep into the structural aspects of your genetic material.
- dGH SCREEN™ assesses genomic stability. With this assay, you can efficiently identify the potential risks of the complete range of structural variants, accelerating your gene therapy regulatory pipeline. Helping you to assure your pipeline remains stable and secure.
- Our Genomic Integrity G-Band Karyotyping assay provides the classical yet invaluable in-sight into the structural characteristics of your chromosomes. Use this data to assess the stability of your batches or protect against genotoxic risks such as sub-clonal populations
- Digital PCR technology, provides the accuracy and reliability needed to maintain the highest standards of product quality. Explore how we harness the power of Digital PCR to help you ensure the genomic integrity of your therapeutic pipeline.

Leverage dGH assays and Genomic Integrity G-Banding assays to acquire the necessary data you need for IND submission and maintaining quality control throughout your therapeutic development pipeline.



dGH SCREEN™ in lymphoblastoid metaphase spread





Thank you!

"It is a pleasure and honor to work with our researchers and life science companies to pursue the health and longevity of all humankind.

Thank you for allowing us to be your partner in your research endeavors and provide the support you need to further the advancement of genomic medicine."

Sincerely,
The KromaTiD Team

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EMAIL: TECHSUPPORT@KROMATID.COM

INQUIRIES AND ORDERS:
EMAIL: SALES@KROMATID.COM
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Dear Colleague,

KromaTiD is proud to support research teams all over the globe. We work with you to create a comprehensive suite of products and services for your cell-based research. We pride ourselves in providing you a quality experience with our expert scientific support and unparalleled genomics tools and services.

Our products and services provide biomarker discovery and assessment, genotoxicity analysis of engineered cell products, clone screening and verification, and structural genomic assessment throughout your pipeline. We strive to provide you all the tools and services you need to obtain success.

Partnering with you so you can focus on the research, while we focus on the rest!

Sincerely,
The KromaTiD Team

dGH™ CAR-T Kit & Gene Probes

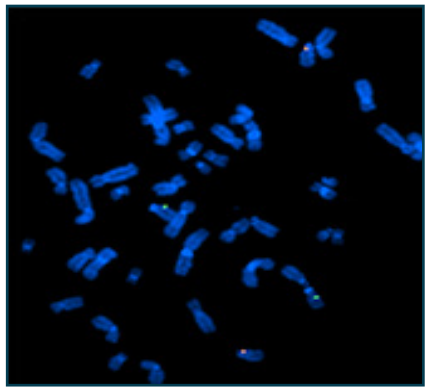
Track the sequence, location and orientation of key CAR-T genomic loci.

Visualize a spectrum of structural alterations, including inversions, translocations, deletions, and other rearrangements involving TRAC, B2M, and other genes related to CAR (Chimeric Antigen Receptor) technology.

Key Benefits & Features:

- Detection of Chromosomal Abnormalities and Structural Instability.
- Identification of Double-Strand Misrepairs at Insertion and Editing Sites.
- Single-Cell Data Sets.
- Precise Insertion Site Tracking.
- Uncovering Sister Chromatid Exchanges.
- Customization Flexibility via the Integration of other dGH™ Probes.
- Seamlessly Integrated with Established Cytogenetic Workflows and Standard Equipment.
- Data Orthogonal to Sequencing and G-Banding Results.

Elevate your laboratory capabilities with dGH™ assays, enabling you to gain a comprehensive understanding of your engineered cell products.



dGH in-Site™ CAR-T Kit applied to lymphoblastoid control cell line showing TRAC (TexRed) and B2M (6-FAM) signals.

dGH in-Site™ Probes

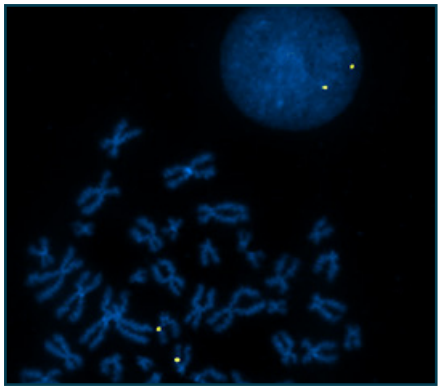
Uncover the essential genomic information often missed by NGS and FISH.

Harness the power of dGH in-Site™ single-stranded probes to construct single-cell assays that enable the direct observation of DNA strand orientation and all categories of structural variations, including even subtle inversions.

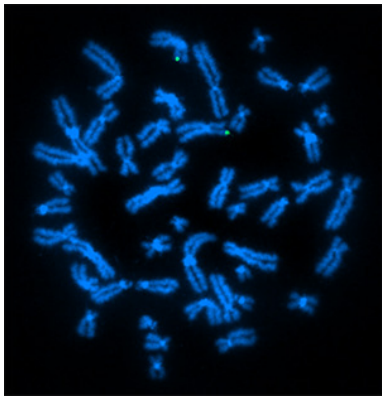
Primary Use Cases:

- Advancing Cell and Gene Therapy Product Development.
- Exploring Rare and Inherited Diseases.
- Biodosimetry Applications.
- Oncology Research, including CAR-T Therapies.

Tailor your personalized dGH in-Site™ assay to gain immediate insights into the target, sequence, location, and orientation, all within a single test. Uncover the full spectrum of structural rearrangements, including aneuploidies and DNA misrepairs in gene editing sites. Make precise observations by directing your focus to centromeric and telomeric regions with specialized dGH in-Site™ probes.



Custom B2M in-Site probe labeled with ATTO 643 in lymphoblastoid cell line.



dGH in-Site™ probe (6-FAM) targeting the subtelomeric region of the p-arm of chromosome 6 in a lymphoblastoid cell.

Pinpoint FISH™ Probes

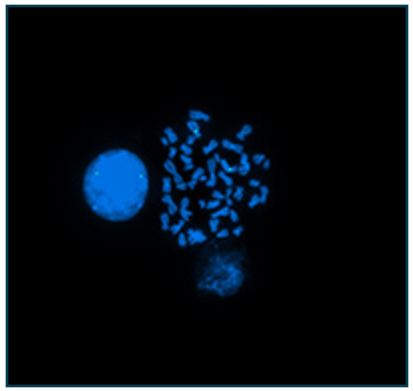
Obtain chromosomal and arm-specific data for your targets.

Pinpoint FISH™ probes are ideal for gathering arm-specific and reference signal data. The bioinformatic design and synthetic oligonucleotide basis of Pinpoint FISH™ probes produce an excellent signal-to-noise ratio for efficient and confident analysis.

Key Applications:

- Serving as Control Signals and as a Companion Probe.
- Chromosome Identification or Enumeration.
- Detecting Deletions and Aneuploidies of Targets.
- Detecting Translocations and Large Inversions in Breakapart Assays.

Our available probes can precisely target both centromeric and telomeric regions of the chromosome, thus offering arm-specific data. Through the strategic combination of multiple probes directed at the same chromosome, researchers have the flexibility to design custom assays tailored to address even more intricate scientific inquiries.



Pinpoint FISH™ probe (6-FAM) targeting pericentromeric region of chromosome 4 in lymphoblastoid metaphase and interphase cells.

Chr1p subtelomere Pinpoint FISH™ probe (6-FAM) in lymphoblastoid metaphase cell.

Pinpoint FISH™ TP53/CEP17 Kit

Detect deletion and copy number changes involving TP53.

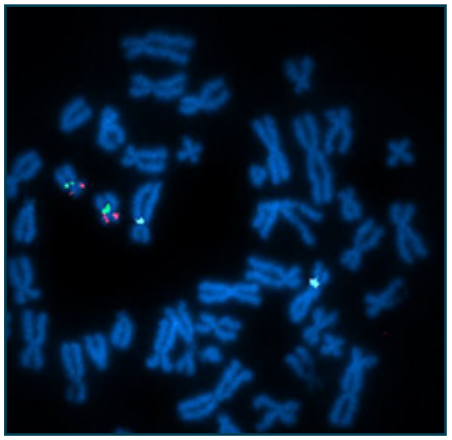
The TP53/CEP 17 Pinpoint FISH™ Probe Kit is intended to detect the copy number of the TP53 LSI probe target located at 17p13 and of the 17q11.1-q11.2 control locus. The CEP 17 probe is a control probe which hybridizes to the 17q11.1-q11.2 locus.

The TP53 probe is labeled with ATTO550/Spectrum Orange and the control probe targeting the 17q11.1-q11.2 region is labeled with 6-FAM/Spectrum Green.

KromaTiD's Pinpoint FISH™ TP53/CEP17 Kit proves highly advantageous in various FISH applications, including:

- Screening Cell Suspension Samples from Hematological and Other Sources
- Testing for Specific Indications like CLL, PLL, LPD, and Myeloma.
- Detecting Deletions and other Anomalies within the TP53 Region.
- Discerning Changes in the Copy Number of Chromosome 17.

The TP53/CEP17 Assay Kit seamlessly integrates with standard FISH consumables and equipment, ensuring ease of use and compatibility with existing laboratory setups.



TP53/CEP17 Kit (Atto550 and 6-FAM) multiplexed with chr5q subCEP (Atto425) in metaphase cell from GM cell line.

Whole Chromosome Paints

Detect chromosomal rearrangements and structure.

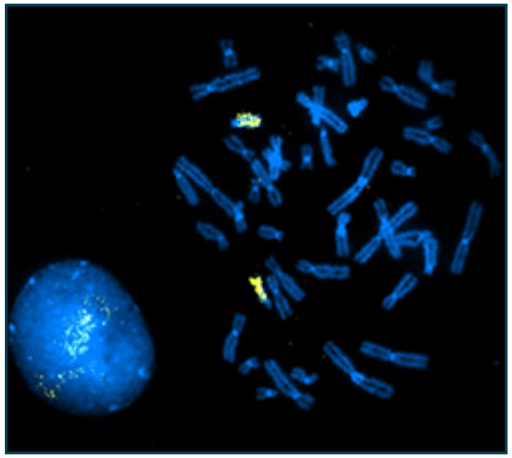
Quantify chromosomal irregularities such as translocations, insertions, and aneuploidy with confidence. Our technology enables the clear visualization of entire chromosomes in one of our five standard colors, facilitating the evaluation of cell line stability and the collection of genotoxicity data. Available in two formats, high density (HD) and medium density (MD).

KromaTiD HD paints are designed to cover all the unique genomic sequences in the genome and contain a high density of fluorescently labeled oligonucleotides. They provide more uniform fluorescence across the entire length of the target chromosome than MD paints. MD paints are designed with equal spacing of concentrated probe signals across the entire length of the chromosome.

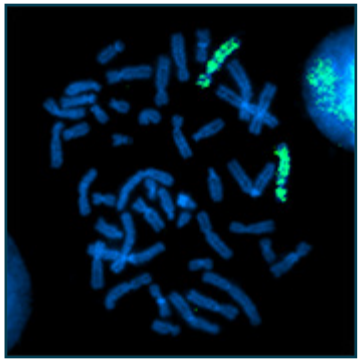
Key Advantages:

- Compatible with Standard Cytogenetic Equipment.
- Exceptional Specificity with Minimal Signal-to-Noise Interference.
- Superior Resolution Compared to BAC Probes.
- Track Chromosome Structure with Precision.
- Competitive Pricing.

Obtain data on chromosome rearrangements and identify homologous chromosome segments in humans. Use as a control probe to assist in your gene probe experiments.



Chromosome 14 Human Whole Chromosome Paint (Atto 643) in lymphoblastoid metaphase and interphase cells.



Chromosome 4 Human Whole Chromosome Paint (6-FAM) in lymphoblastoid metaphase cell.

dGH™ Cell Prep Kit

Prep your cells for dGH™ assays using our single stranded hybridization method.

The dGH™ Cell Prep Kit contains a media additive which incorporates into DNA during replication and allows the daughter stand to be stripped from metaphase chromosomes.

This unique method of metaphase cell preparation, followed by use of dGH in-Site or dGH SCREEN assays, enables high resolution, direct measurement of inversions, translocations, and provides a whole genome structural variant analysis.

Key Benefits:

- Allows Processing of Your Samples In-House.
- Fully Compatible with Your Cell Culture Procedures.
- Ready to Use with dGH in-Site™ and dGH SCREEN™ assays.
- Flexible Packaging Sizes for Processing 10-100 samples.
- Complimentary Analysis via Direct Single-Cell Visualization of Structural Variations, Independent of PCR and Sequencing Methods.

Save time and money processing samples in your own laboratory for dGH in-Site™ and dGH SCREEN™ assays, assuring the stability of your cell lines.

PRODUCT PRICE LIST

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dGH in-Site™ CAR-T Kit & Gene Probes Pricing Info

Qualify your cellular engineering outcomes with the power of the dGH in-Site™ assay without the high service costs!

Catalog Number	CAR-T Kit	Cost
DGH-045	CAR-T TRAC B2M	$1,500.00
DGH-046	CAR-T TRAC B2M Bundle (White Glove Tech Transfer)	$1,720.00

Catalog Number	Gene	Cost
DGHP-001	TRAC	$800.00
DGHP-002	B2M	$800.00
DGHP-003	PDCD1	$800.00
DGHP-004	CIITA	$800.00
DGHP-005	CD19	$800.00

Catalog Number Suffix Identifier	Fluorophores
CAT NO-A	ATTO550
CAT NO-B	TEXRED
CAT NO-C	6-FAM
CAT NO-D	ATTO643

dGH™ Subcentromere and Subtelomere Probes

Get robust data sets with our dGH Subcentromere and Subtelomere ssDNA Probes!

Catalog Number	Chromosomes	Any Fluorophore
DGH-CEP-0001-0024	1-22 X,Y	$195.00
DGH-TEL-0001-0024	1-22 X,Y	$195.00

Four Fluorophore Label Options in Stock!

Catalog Number Suffix Identifier	Fluorophores
CAT NO-A	ATTO550
CAT NO-B	TEXRED
CAT NO-C	6-FAM
CAT NO-D	ATTO643

Pinpoint FISH™ Subcentromere and Subtelomere Probes Pricing Info

Chromosomal enumeration and arm-specific data obtainment has never been easier with our high signal to noise ratio!

Catalog Number	Chromosomes	TexRed/6-FAM Fluorophore	ATTO Fluorophores 550/643/425
CEP-0001-0024	1-22 X,Y	$145.00	$155.00
TEL-0001-0024	1-22 X,Y	$145.00	$155.00

Five Fluorophore Label Options in Stock and Custom Options Available!

Catalog Number Suffix Identifier	Fluorophores
CAT NO-A	ATTO550
CAT NO-B	TEXRED
CAT NO-C	6-FAM
CAT NO-D	ATTO643
CAT NO-E	ATTO425
CAT NO-F	CUSTOM

Discounts are available!
Please contact us for discounted pricing packages for orders four or more!

Whole Chromosome MD Paints Pricing Info

Catalog Number	Chromosome	TexRed/6-FAM	ATTO 550/643/425
CPT-0001	1	$145.00	$155.00
CPT-0002	2	$145.00	$155.00
CPT-0003	3	$145.00	$155.00
CPT-0004	4	$145.00	$155.00
CPT-0005	5	$145.00	$155.00
CPT-0006	6	$145.00	$155.00
CPT-0007	7	$145.00	$155.00
CPT-0008	8	$145.00	$155.00
CPT-0009	9	$145.00	$155.00
CPT-0010	10	$145.00	$155.00
CPT-0011	11	$145.00	$155.00
CPT-0012	12	$145.00	$155.00
CPT-0013	13	$145.00	$155.00
CPT-0014	14	$145.00	$155.00
CPT-0015	15	$145.00	$155.00
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CPT-0018	18	$145.00	$155.00
CPT-0019	19	$145.00	$155.00
CPT-0020	20	$145.00	$155.00
CPT-0021	21	$145.00	$155.00
CPT-0022	22	$145.00	$155.00
CPT-0023	X	$145.00	$155.00
CPT-0024	Y	$145.00	$155.00

Whole Chromosome HD Paints Pricing Info

Catalog Number	Chromosome	All Fluorophores
CPT-0026	1	$295.00
CPT-0027	2	$295.00
CPT-0028	3	$295.00
CPT-0029	4	$295.00
CPT-0030	5	$295.00
CPT-0031	6	$295.00
CPT-0032	7	$295.00
CPT-0033	8	$295.00
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CPT-0037	12	$295.00
CPT-0038	13	$295.00
CPT-0039	14	$295.00
CPT-0040	15	$295.00
CPT-0041	16	$295.00
CPT-0042	17	$295.00
CPT-0043	18	$295.00
CPT-0044	19	$295.00
CPT-0045	20	$295.00
CPT-0025	21	$295.00
CPT-0046	22	$295.00
CPT-0047	X	$295.00
CPT-0048	Y	$295.00

Ordering with Us is Easy!

You can easily place orders for KromaTiD's products directly through our website. If you require services or wish to place a custom probe order, please don't hesitate to reach out to us through our website.

KromaTiD has a global network of distributors, so no matter where you are, we've got you covered. To locate a distributor in your region, please visit our "Contact Us" page on our website. You can also connect with us through Scientist, Science Exchange, and BioCompare.

For technical support, KromaTiD offers assistance through our Live Chat feature on the website, via email, and over the phone.

Stay updated by visiting our website regularly to discover the latest additions to our catalog, and be sure to subscribe to our newsletter. Visit us at kromatid.com for more information!

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