KromaTiD

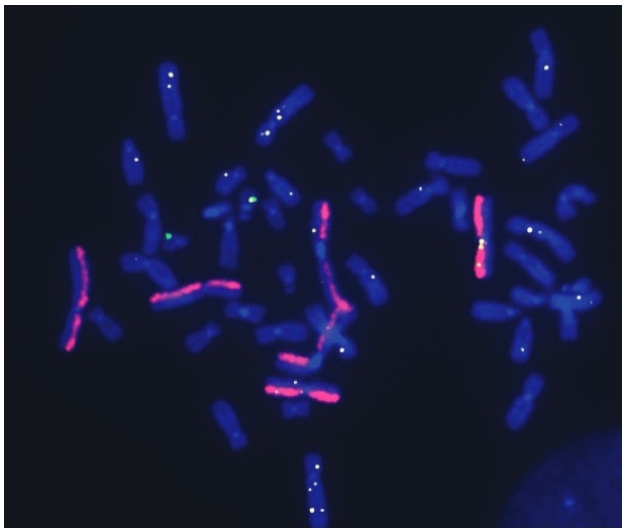
DATA SHEET

Qualify your Gene Editing with dGH in-Site™ Assays

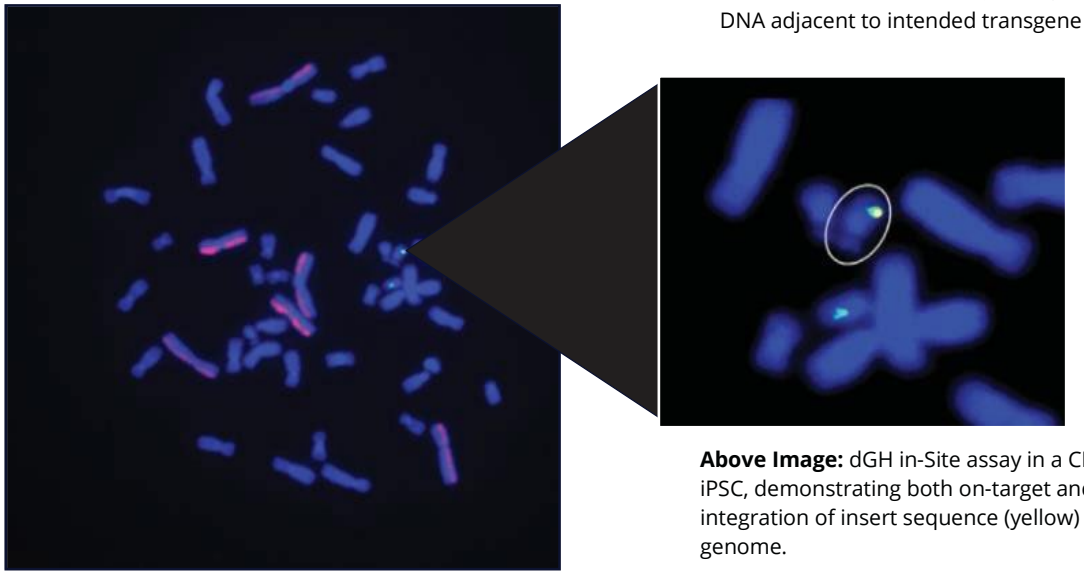
KromaTiD's directional Genomic Hybridization™ (dGH™) technology provides the highest resolution and lowest limit of detection available for inversions, translocations and other structural variants.

dGH in-Site™ provides single-cell, genome-wide tracking of inserted DNA cassettes as small as 2kb. By comparing pre- and post-cell engineering outcomes this assay provides the most detailed measure of structural heterogeneity available.

Using dGH in-Site™, we can track the structural variants that may impact your cell engineering program most: rearrangements to TRAC and B2M loci, on-and off-target insertions of your transgenes including insertions at potentially genotoxic or oncogenic off-target sites, and indications of stability or instability.



Above Image: Chromosomes 1, 2 and 3 targeted with dGH™ paint probes labeled in Atto 550. Custom dGH in-Site™ probe in cy5 targets all transgene insertion sites. Custom dGH in-Site™ "babysitter probe" in 6-FAM targets DNA adjacent to intended transgene insertion site.



Above Image: dGH in-Site assay in a CRISPR/Cas edited iPSC, demonstrating both on-target and random integration of insert sequence (yellow) throughout the genome.

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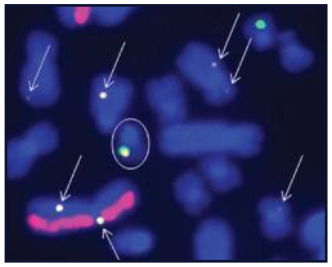
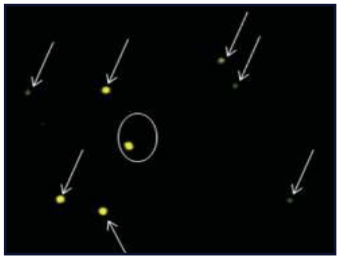
Key features and benefits of dGH in-Site™ Assay Services

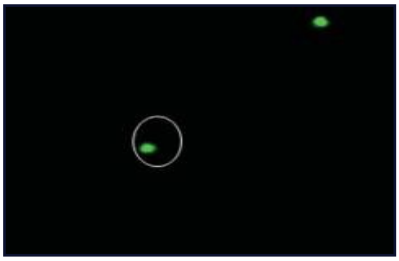
- Track and locate transgenes and DNA cassettes as small as 2kb through direct visualization.
- Available for any sequenced mammalian genome
- Multi-channel fluorescence for flexible, multiplexed panel design
- An excellent orthogonal analysis to PCR/sequencing techniques
- We provide you a detailed report of metrics and images including
    - On- and off-target integrational copy number
    - Insert site scoring summary, cells with events
    - Example structural variant images
    - Distribution of integrations on both a single cell and genome-wide basis



Channel 1: Fluorescence channels over laid, insert and bracketing probes both visible on one copy of target chromosome and off target inserts visible in multiple chromosomes.



Channel 2: Yellow fluorescence channel, on-target insertion visible on one homolog (circled) and multiple off-target sites throughout genome.



Channel 3: Green fluorescence channel. Bracketing probes visible on both homologs of target chromosome. Circled green probe signal shows insertion (seen on channel 2) while un-circled green probe does not.

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Service Pricing

Assay Execution and Analysis: Imaging and Scoring

Cells counted per sample

Probe number	20	50	100	200	500	600
1	DGH-030	DGH-027	DGH-025	DGH-006	DGH-031	DGH-032
	$1,219	$1,828	$2,742	$4,113	$5,553	$7,497
2	DGH-033	DGH-034	DGH-035	DGH-005	DGH-036	DGH-037
	$1,341	$2,011	$3,016	$4,525	$6,108	$8,246
3	DGH-038	DGH-023	DGH-022	DGH-004	DGH-039	DGH-040
	$1,475	$2,212	$3,318	$4,977	$6,719	$9,070
4	DGH-015	DGH-016	DGH-041	DGH-003	DGH-042	DGH-043
	$1,622	$2,433	$3,650	$5,475	$7,391	$9,978

Additional Related Services

Cat. No.	Product Description	List Price
DGH-007	dGH in-Site™ Custom Probe Production: Design and verification of custom probes	$6,250.00
DGH-009	T-Cell Culture Development: Thaw, recovery, and harvest optimization	$1,500.00
DGH-012	dGH in-Site™ T Cells Metaphase Prep and Harvest	$1,500.00
DGH-010	IPSC Cell Culture Development: Thaw, recovery, and harvest optimization	$1,625.00
DGH-013	dGH in-Site™ IPSC Metaphase Prep and Harvest	$1,625.00
DGH-011	Whole Blood Culture Development: Thaw, recovery, and harvest optimization	$1,125.00
DGH-014	dGH in-Site™ Whole Blood Metaphase Prep and Harvest	$1,125.00
DGH-029	NK Cell Culture Development: Thaw, recovery, and harvest optimization	$1,500.00
DGH-024	dGH in-Site™ NK Cell Metaphase Prep and Harvest	$1,500.00
DGH-026	dGH in-Site™ Calibration per sample	$2,062.50
DGH-028	dGH in-Site™ QC one timepoint test per sample	$625.00

For more information on how KromaTid can transform your research, please contact

sales@kromatid.com