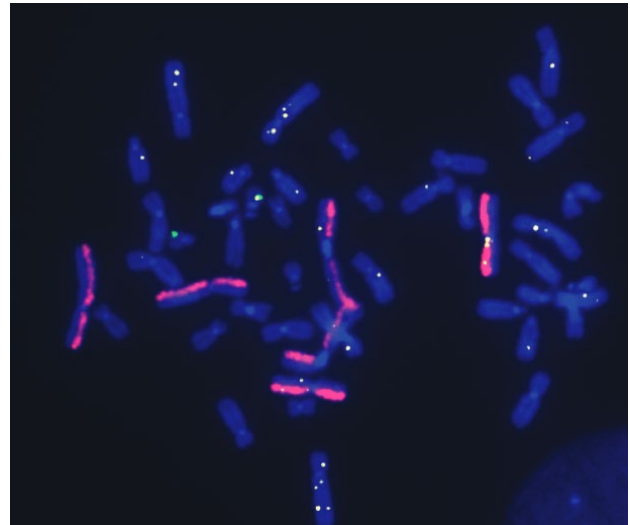


Qualify your Gene Editing with dGH in-Site™ Assays

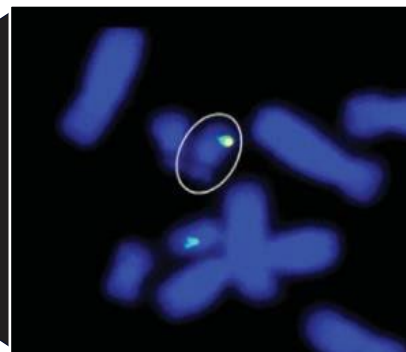
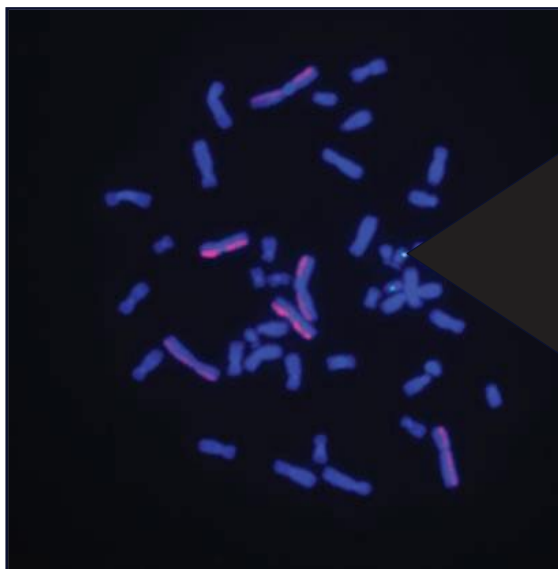
KromaTiD's directional Genomic Hybridization™ (dGH™) technology provides the highest resolution and lowest limit of detection available for inversions, translocations, and other structural variants.

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.



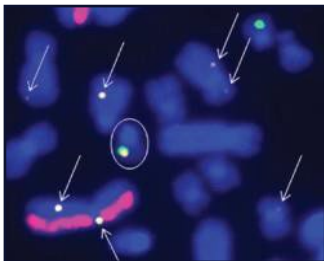
Above Image: Chromosomes 1, 2 and 3 targeted with dGH™ paint probes labeled in Atto 550. Custom dGH in-Site™ probe in cy5 targets all transgene insertion sites. Custom dGH in-Site™ "babysitter probe" in 6-FAM targets DNA adjacent to intended transgene insertion site.



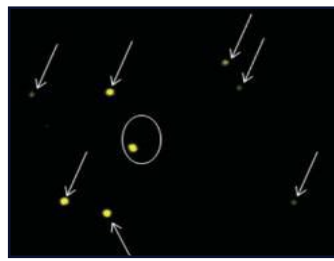
Above Image: dGH in-Site assay in a CRISPR/Cas edited iPSC, demonstrating both on-target and random integration of insert sequence (yellow) throughout the genome.

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

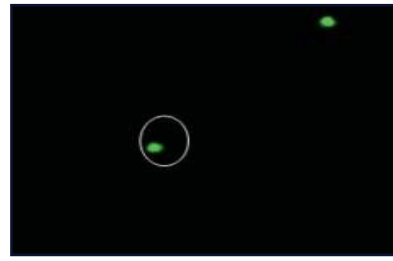
- Track and locate transgenes and DNA cassettes as small as 2kb through direct visualization.
- Available for any sequenced mammalian genome
- Multi-channel fluorescence for flexible, multiplexed panel design
- An excellent orthogonal analysis to PCR/sequencing techniques
- We provide you a detailed 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 overlaid, 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 uncircled green probe does not.

Cytogenetic Assays for Genomic Integrity

By partnering with KromaTiD, you can leverage the unique combination of our complete suite of single-cell cytogenetic assays for your comprehensive genotoxicity assessment and quality control testing.

We work with you to choose the best combination of our assays, including dGH in-Site™, dGH SCREEN™, Genomic Integrity G-Band Karyotyping, and digital PCR, to create a customized analytical package.

Contact us to learn more: kromatid.com

Pricing

Assay Execution and Analysis: Imaging and Scoring

Cells counted per sample

		20	50	100	200	400	500	600
Probes per assay	1	DGH-030 \$1304	DGH-027 \$1956	DGH-025 \$2934	DGH-006 \$4401	DGH-054 \$5229	DGH-031 \$5941	DGH-032 \$8021
	2	DGH-033 \$1434	DGH-034 \$2151	DGH-035 \$3227	DGH-005 \$4841	DGH-055 \$5751	DGH-036 \$6535	DGH-037 \$8823
	3	DGH-038 \$1577	DGH-023 \$2366	DGH-022 \$3550	DGH-004 \$5325	DGH-056 \$6326	DGH-039 \$7189	DGH-040 \$9705
	4	DGH-015 \$1736	DGH-016 \$2604	DGH-041 \$3905	DGH-003 \$5858	DGH-052 \$6955	DGH-042 \$7908	DGH-043 \$10676
	5	DGH-061 \$2307	DGH-060 \$3496	DGH-053 \$5298	DGH-044 \$7908	DGH-057 \$9410	DGH-058 \$10727	DGH-059 \$14482

Additional Related Products and Services

Catalog Number	Services	Cost
DGH-002	Standard Probe Production: Design and verification of standard probes	\$1,444
DGH-007	Custom Probe Production: Design and verification of custom probes	Inquire
DGH-009	T-Cell Culture Development: Thaw, recovery, and harvest optimization	\$1,650
DGH-012	T Cells Metaphase Prep and Harvest	\$1,650
DGH-010	IPSC Cell Culture Development: Thaw, recovery, and harvest optimization	\$1,788
DGH-013	IPSC Metaphase Prep and Harvest	\$1,788
DGH-011	Whole Blood Culture Development: Thaw, recovery, and harvest optimization	\$1,238
DGH-014	Whole Blood Metaphase Prep and Harvest	\$1,238
DGH-029	NK Cell Culture Development: Thaw, recovery, and harvest optimization	\$1,650
DGH-024	NK Cells Metaphase Prep and Harvest	\$1,650

Products for dGH assay cell culture in your own lab followed by shipment to KromaTiD.

Catalog Number	Product	Culture Size	Cost
DGH-0001	dGH Cell Prep Kit (250 µL)	8 samples in triplicate T25 flasks or 4 samples in triplicate T75 flasks	\$1,050
DGH-0002	dGH Cell Prep Kit (500 µL)	16 samples in triplicate T25 flasks or 8 samples in triplicate T75 flasks	\$2,000
DGH-0003	dGH Cell Prep Kit (1000 µL)	32 samples in triplicate T25 flasks or 16 samples in triplicate T75 flasks	\$3,800

Catalog Number	Product	Cost
COL-001	Demecolcine, 10 µg/mL, 2.5 mL	\$12.00
COL-002	Demecolcine, 10 µg/mL, 5.0 mL	\$20.00
COL-003	Demecolcine, 10 µg/mL, 10.0 mL	\$35.00

Customer Notification

1. All Products and Deliverables are supplied for internal scientific research purposes only and are not intended for i) human consumption, including, but not limited to, foods or pharmaceuticals, ii) diagnostic purpose including, but not limited to, human or veterinary *in vivo* or *in vitro* diagnostics, or use in cosmetics or other goods. Research purposes means *in vitro* laboratory studies or *in vivo* use in laboratory organisms only.
2. Products and Deliverables are supplied for the Customer's personal research activities and noncommercial use. Products and Deliverables must not be sold or otherwise redistributed without KromaTiD's consent.
3. KromaTiD's full Terms of Sale can be found on our website.



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