

## dGH in-Site™ Probes

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

Use dGH in-Site™ probes to build single-cell assays that provide direct visualization of DNA strand orientation and all classes of structural variation, even inversions, as small as 2 kb.

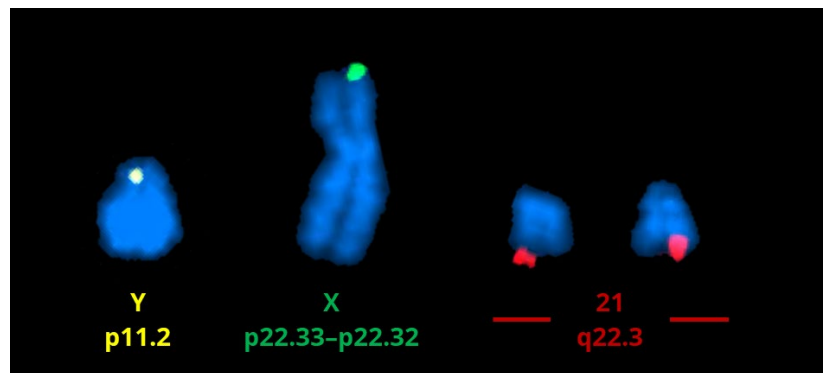
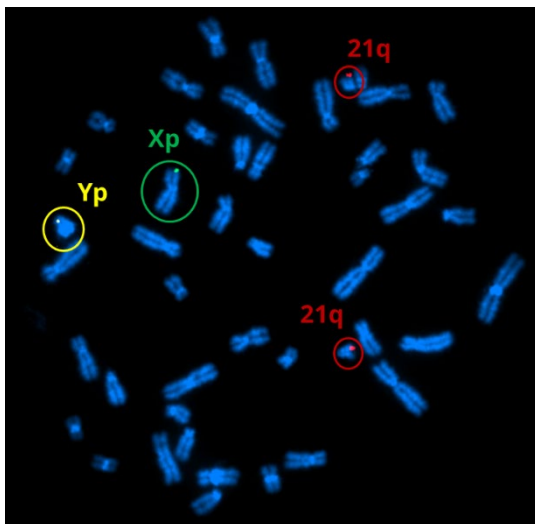
Gain novel, actionable insights quickly and safeguard your research project investments.

### Key Applications

- Genotoxicity analysis
- Cell and gene therapy product development
- Rare and inherited disease research
- Biodosimetry
- Oncology and CAR-T

### Build a dGH in-Site assay for direct visualization of:

- Target sequence, location and orientation
- All classes of structural rearrangements
- DNA misrepairs to genes and edit sites
- Centromeric and telomeric regions
- Aneuploidies



**Figure 1.** Multiplexed dGH in-Site example images. dGH™ in-Site subtelomere probes for Yp (yellow), Xp (green) and 21q (red) in GM12753 control lymphoblastoid cell line.

**Design** your in-Site assay by choosing from our extensive list of subcentromere, subtelomere and gene-specific probes, or by having our Kromatid specialists create a custom probe to your specifications.

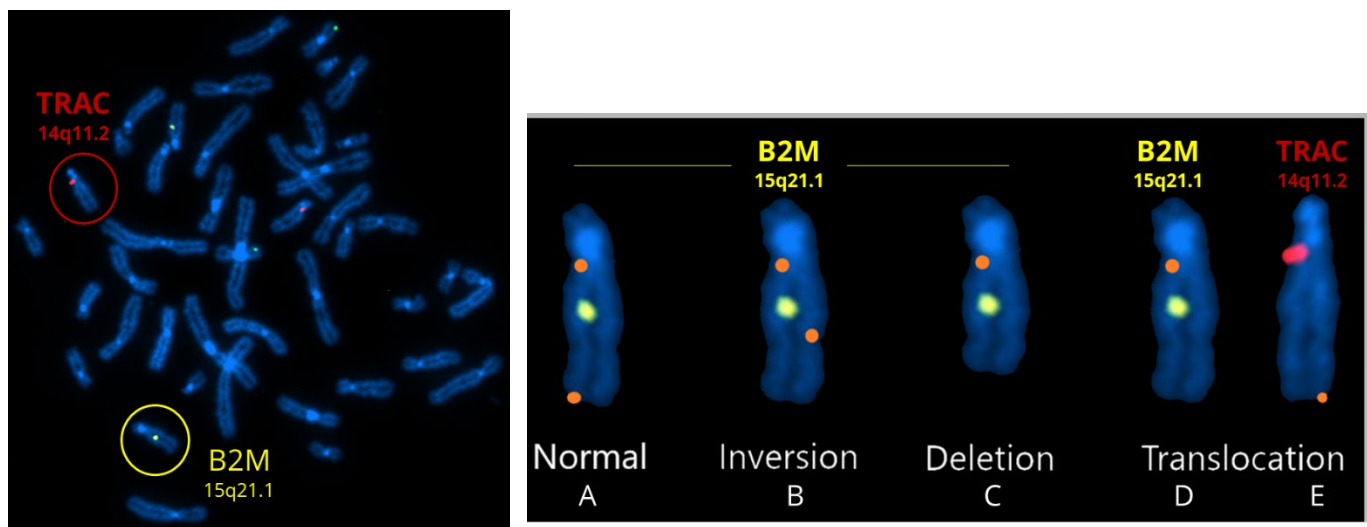
**Prepare cell samples** using the [dGH Cell Preparation](#) and [Metaphase Slide Preparation](#) protocols to obtain single-stranded metaphase spreads.

**Hybridize** your set of dGH in-Site single-stranded probes to your metaphase spreads with the [dGH Probe Hybridization Protocol](#) for the highest-quality results.

**View and analyze** your outcomes using standard fluorescence microscopy hardware.

## Uncover the hidden information you need to move your research forward

dGH assays make it easy to identify all the abnormalities detected by traditional FISH, as well as the small inversions FISH cannot easily spot – the kind that can slow, or even derail, your project. (Figure 2).



**Figure 2.** LEFT: dGH™ in-Site TRAC 14q11.2 (red), B2M 15q21.1 (yellow) and CIITA 16p13.13 (green) probes in GM12753 control lymphoblastoid cell line. RIGHT: Simulated addition of orange-labeled subcentromere and subtelomere dGH probes in chromosome 15 that is normal (A), inverted (B), deleted (C) and translocated (D) with chromosome 14 (E).

Learn more about what makes the dGH method and data unique:

[The Next Generation of Metaphase FISH Techniques](#)

## Ordering Information

### Subcentromere and Subtelomere dGH in-Site Probes

Fluorophore	Size	Price
Atto550/Spectrum Orange	10 Tests	\$195.00
TexRed	10 Tests	\$195.00
6-FAM/Spectrum Green	10 Tests	\$195.00
Atto643/647/Cy5	10 Tests	\$195.00

Find the complete lists of dGH in-Site probes and pricing on our website:

[Subcentromere dGH Probes](#)

[Subtelomere dGH Probes](#)

### Gene-Specific dGH in-Site Probes

Product	Fluorophore	Size	Price
dGH™ Probe B2M (15q21.1)	6-FAM/Spectrum Green	10 Tests	\$800.00
dGH™ Probe TRAC (14q11.2)	TexRed	10 Tests	\$800.00
dGH™ Probe CIITA (16p13.13)	ATTO550/Spectrum Orange	10 Tests	\$800.00
dGH™ Probe PDCD1 (2q37.3)	ATTO550/Spectrum Orange	10 Tests	\$800.00
dGH in-Site™ Endogenous CD19	ATTO643/647/Cy5	10 Tests	\$800.00
dGH in-Site™ Custom Probe	Consult with Technical Support	10 Tests	\$6,250.00
<a href="#">dGH in-Site™ CAR-T Probe Kit</a>	B2M 6-FAM/Spectrum Green; TRAC TexRed	10 Tests	\$1,500.00

KromaTiD specialists can help you:

- Combine our catalog probes into a multiplexed assay uniquely designed for you.
- Design a custom probe to any genomic locus, transgene or other inserted sequence.

Contact us today at [techsupport@kromatid.com](mailto:techsupport@kromatid.com) or [sales@kromatid.com](mailto:sales@kromatid.com) to order.

### Customer Notification

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For more information on how KromaTiD can transform your research, please contact [sales@kromatid.com](mailto:sales@kromatid.com)

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