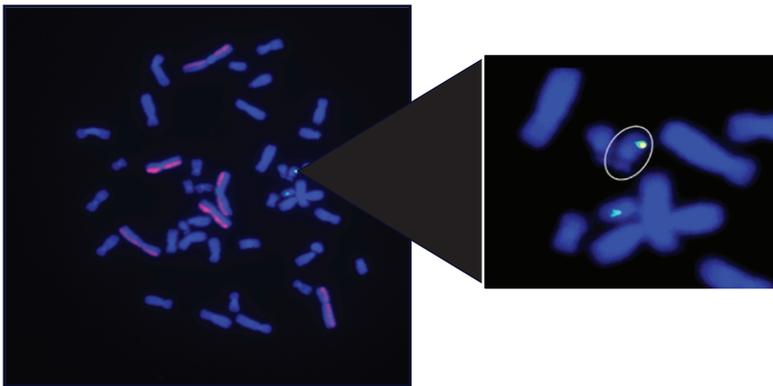


### dGH in-Site™

#### What is dGH in-Site?

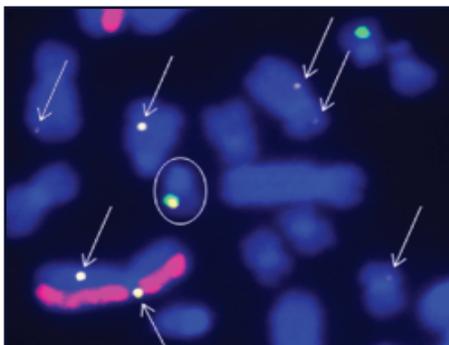
dGH in-Site probes harness KromaTiD's Directional Genomic Hybridization technology to provide whole genome tracking of inserted DNA cassettes as small as 2 kilobases. Unidirectional dGH probes provide a single cell, genome-wide perspective of cellular engineering outcomes, including tracking of viral and non-virally mediated DNA integration (CRISPR/Cas and alternative systems).



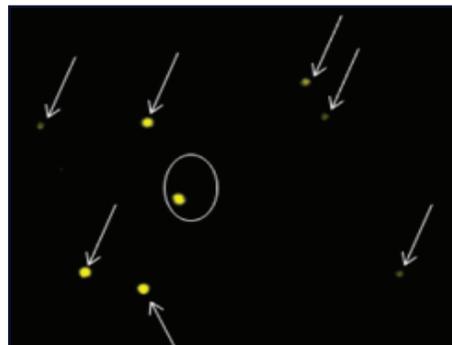
**Figure 1:** dGH in-Site assay in a CRISPR/Cas edited iPSC, demonstrating both on-target and random integration of insert sequence (yellow) throughout the genome.

#### Benefits of in-Site

- On- and off-target integration metrics.
- Clean integration data, even from complex or heterogeneous cell populations.
- A unique, whole genome, orthogonal method of direct visualization of inserts, without bioinformatic prediction of outcomes.
- Multi-channel fluorescence for flexible and multiplex assay design  
Available for human, murine, canine, non-human primate and CHO cells.



**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 does not.

## Working with KromaTiD is Easy!



**Figure 2:** Example workflow with KromaTiD running in-Site assay on engineered lines in house.

As an orthogonal analysis to PCR/sequencing techniques, dGH in-Site assays enable, through direct visualization, definitive single-cell measurements of structural variants throughout the genome.

Offering the lowest limit of detection of integrated or genomic DNA targets by fluorescence, dGH in-Site is the most comprehensive tool available for researchers to track genome-wide distribution and orientation of transgenes, inserts and edit site rearrangements.

Products & Services	List Price
Non-Refundable Set-Up Fee (when applicable)	Project Specific
Assay Execution, Imaging and Scoring: 1 Probe	\$3,220/sample
Assay Execution, Imaging and Scoring: Additional Probes	\$1,000/probe
Custom Probe Production (Design and Verification)	\$5,000/probe
Standard Probe Production	\$1,000/probe
Culture Development	\$500/sample
Cell Culture + Harvest	\$500/sample

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