KROMATID

INTERPHASE ANALYSIS

Copy Number and Structure in Single Nuclei



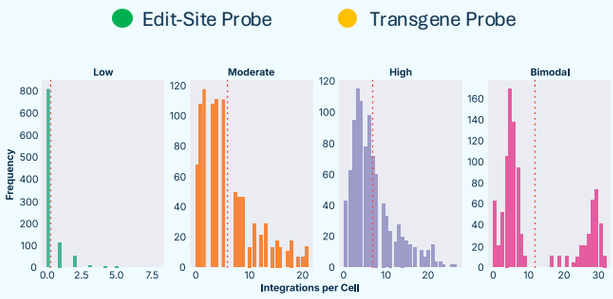
Whether you are inserting a transgene or editing a target site, PinPoint shows the outcome one nucleus at a time: how many copies each cell carries, where they landed, and whether the locus kept its structure.

01 • COPY NUMBER

True Single-Cell Copy Number

PinPoint counts transgene copies nucleus by nucleus, whether integration is targeted, random, or both, with on- and off-target calls where the design allows.





Per-cell counts differ by editing system, method and cell line (red line: average). In the bimodal batch, the average falls between two cell populations.

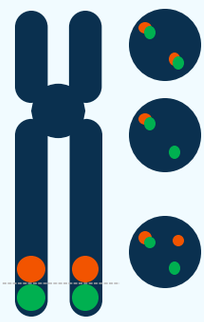
See the Populations Pooled Methods Miss

ddPCR and sequencing of pooled DNA return one average per sample, so a minority of high-copy cells can go unseen. PinPoint scores each nucleus on its own: true single-cell sensitivity.

02 • STRUCTURE

Is the Edit Site Still Intact?

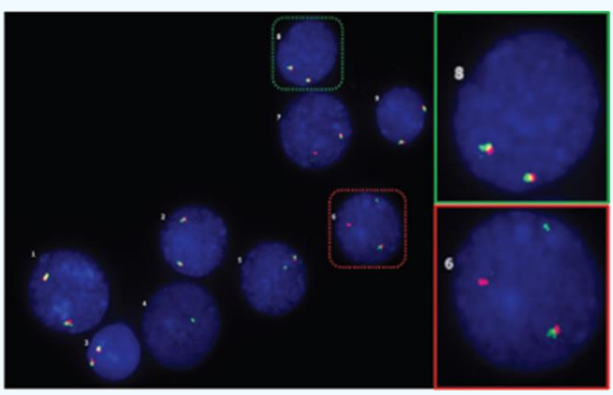
Dual-color probes bracket the edit site (Chr. 12 shown). Changes in the red and green pattern flag large structural events in each nucleus.



Intact Edit Site
Red and green signals at both loci

Deletion
Red or green signal missing next to the edit site

Large Segmental Rearrangement
Red and green are no longer directly associated at an edit site



Example field: 3 of 8 nuclei carry large rearrangements at the Chr. 12 edit site. Cells 4 and 5 show deletions; boxed cell 6 shows a large segmental rearrangement. Boxed cell 8 shows paired signals.

Random and Targeted

True per-cell counts, with on- and off-target calls where the design allows.

Large Segmental Rearrangement

Seen at the edit site as lost or separated signals.

No Dividing Cells Needed

Works in interphase nuclei and tissue sections, with no metaphase spreads.

Built Around Your Target

Custom probes designed from about 2 kb of target sequence.

Talk to us about your project.

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