

### Pinpoint FISH™ Chromosome Paints

Pinpoint FISH™ chromosome paints are synthetic DNA probe sets comprised of thousands of fluorescently labeled oligonucleotides targeting the length of each individual chromosome.

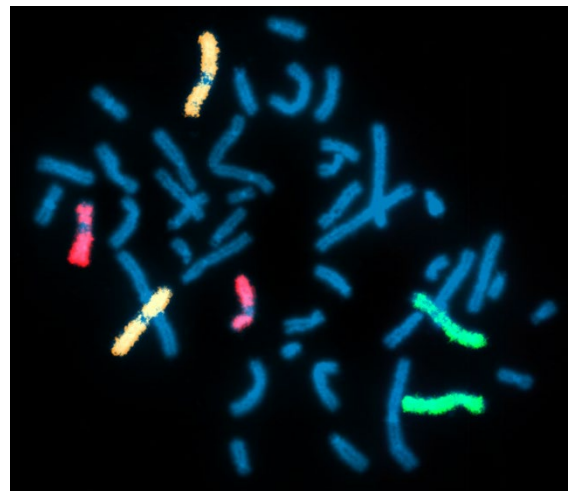
KromaTiD's synthetic oligonucleotide-based probes are designed using bioinformatic methods which screen out repetitive sequences that may bind off-target, delivering higher signal-to-noise ratios than BAC probes.

### Applications

Chromosome painting is a powerful tool for discovering chromosomal structural variants and other karyotypic abnormalities. It is used extensively in cytogenetics, cancer and genetic disease research, cell and gene therapy development and genome mapping studies.

Use these chromosome paints to analyze:

- Structural changes such as translocations, deletions, and insertions
- Other complex rearrangement events
- Aneuploidy and polyploidy



Multiplexed HD chromosome paints targeting chromosome 3 (orange), chromosome 4 (green), and chromosome 7 (red) in an immortalized human leukocyte control cell line.

### Key Benefits

- Compatible with standard cytogenetic equipment and methods
- High specificity and low background
- Higher resolution than BAC probes
- No COT1 blocking required
- Easily multiplexed
- Competitive pricing

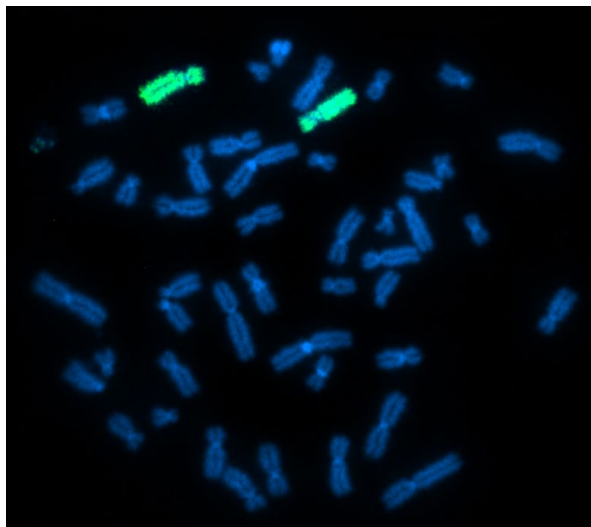
### Technical Details

Pinpoint FISH chromosome paints are available in two formats, high density (HD) and medium density (MD).

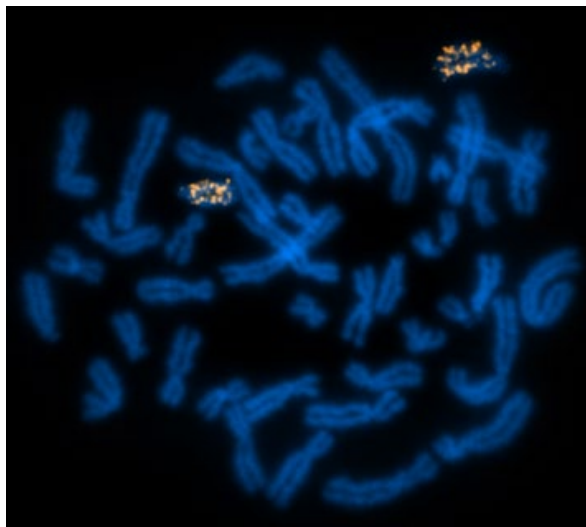
KromaTiD HD paints are designed to cover all the unique genomic sequences in the genome and contain a high density of fluorescently labeled oligonucleotides. They provide more uniform fluorescence across the entire length of the target chromosome than MD paints.

MD paints are designed with equal spacing of concentrated probe signals across the entire length of the chromosome.

	HD	MD
<b>Fluorescence density</b>	High	Medium
<b>Paint design</b>	Unique sequences	Spaced
<b>Sample type</b>	Metaphase	Metaphase



Transformed human cell line GM14907 hybridized with HD Pinpoint FISH Chromosome 4 Paint labeled with 6-FAM.



Human lymphoblastoid control cell line hybridized with MD Pinpoint FISH Chromosome 14 Paint labeled with Texas Red.

### Chromosome Paint Pricing

Chromosome paints are available for all human chromosomes, including X and Y, and in five choices of fluorophore label.

Product	Available Labels	Excitation / Emission (nm)	Size	Price
Pinpoint FISH MD Chromosome Paints	TexRed	490 / 525	10 tests	\$145.00
	6-FAM	555 / 576	10 tests	\$145.00
	ATTO 550	595 / 620	10 tests	\$155.00
	ATTO 643	643 / 669	10 tests	\$155.00
	ATTO 425	436 / 485	10 tests	\$155.00
Pinpoint FISH HD Chromosome Paints	TexRed	490 / 525	10 tests	\$295.00
	6-FAM	555 / 576	10 tests	\$295.00
	ATTO 550	595 / 620	10 tests	\$295.00
	ATTO 643	643 / 669	10 tests	\$295.00
	ATTO 425	436 / 485	10 tests	\$295.00

Buffers and Reagents	Size	Price
Pinpoint FISH Hybridization Buffer	10 tests	\$6.00
Demecolcine (Colcemid™), 10 µg/mL	2.5 mL	\$12.00
	5.0 mL	\$20.00
	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.
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