

New

# miRNA Probes

*in situ* staining in FFPE tissues



Next-gen *in situ* tissue signature markers

Potential tool for characterization of CUP

## microRNA *In Situ* Hybridization (miRNA ISH)

microRNAs (miRNAs) are a recent addition to the diagnostic toolkit for cancer clinicians. MiRNAs are remarkably stable and are well preserved due to their very short sequences and resistance to endogenous enzymes. Unlike the traditional method of assessing miRNA by total RNA extraction followed by qRT-PCR or microarray techniques, utilizing in situ hybridization in formalin-fixed paraffin-embedded tissues (FFPE) reduces the loss of spatial context caused by tissue lysing.

**The miRNA expression profiles are used to assess the cancer type or conditions like:**

1. Cancer of unknown primary
2. Undifferentiated and poorly differentiated tumors
3. Classification of cancer subtypes
4. Grading and staging of cancer

### miRNA Probes

BioGenex miRNA probes portfolio includes **245 unique miRNA probes**, that can be used for differentiation of malignant and benign tumors, early-stage cancer detection marker, identification of cancer of unknown primary (CUP), differentiation of cancer subtypes, grading, staging of cancer subtypes, and classifying undifferentiated and poorly differentiated tumors.

### Biomarker Panels

Renal Cell Carcinoma Classification Panel

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Glioma Subtyping and Grading Panel

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Squamous Cell Carcinoma and Adenocarcinoma Differentiation Panel

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Differentiation of Cholangiocarcinoma and Pancreatic Ductal

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Differentiation of Triple-Negative Breast Cancer

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Differentiation of Prostate Cancer (PC) and Benign Prostatic Hyperplasia (BPH)

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Differentiation of Wild Type and Mutated BRCA

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Gastric Differentiation and Subtyping Panel

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Differentiation of moderate and poorly differentiated cervical squamous cell cancer

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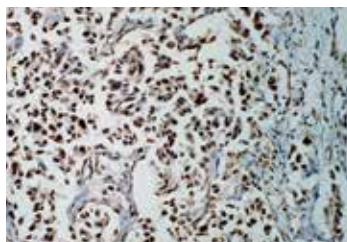
# BioGenex Super Sensitive Nucleic Acid (SSNA) miRNA Probes:

BioGenex has developed proprietary Super Sensitive Nucleic Acid (SSNA) miRNA probes that are specially designed to enhance signals from the intrinsically low populated miRNAs. These probes have high melting temperatures enabling stringent washes at elevated temperatures to remove non-specific binding. BioGenex miRNA probes are dual-end labeled with a fluorophore that amplifies the signal, giving intense stains. BioGenex SSNA microRNA probes combined with visualization system allows the visualization of target miRNAs in specific cells in the spatial context and aid in studying the lowly expressed miRNA populations to assess the physiological function of miRNA.

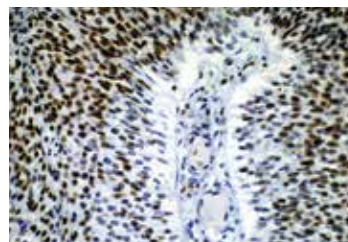
**BioGenex miRNA portfolio includes 245 unique miRNA probes, the ONLY commercially available extensive list of probes for miRNA *in situ* hybridization.**

We also support a one-stop solution for all miRNA related research including automated instruments, probes, nucleic acid retrievals, detection systems, and ancillaries.

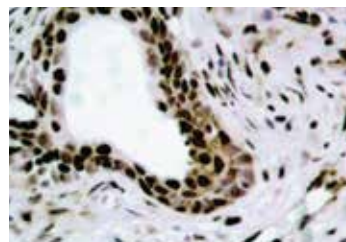
Product	50 tests Manual/Xmatrx Infinity	100 tests Xmatrx Elite
Super Sensitive One-Step Polymer-HRP ISH Detection Kit	DF400-50KE	N/A
XISH One-Step Polymer-HRP ISH Detection Kit	N/A	DF400-YADE



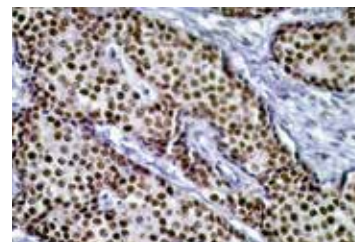
Hsa-miR-let-7c



Hsa-miR-96



Hsa-miR-125b



Hsa-miR-151a-3p

## About BioGenex

BioGenex designs, develops and commercializes molecular pathology systems for cancer diagnosis, prognosis, precision medicine and life science research. The recent introduction of miRNA system for characterization of Cancer of Unknown Primary (CUP) and undifferentiated tumors are a game changer and envy of the industry. Our fully-automated molecular pathology workstations are the most advanced system available globally.

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