



# Test Catalog

Diagnostic. Prognostic. Predictive. Predisposition.



## PDGFRA Rearrangement

### Alternative Name

PDGFR Alpha Rearrangement

### Methodology

FISH

### Test Description

**Probes:** PDGFRA | CHIC2 | FIP1L1 (4q12)

**Disease(s):** Chronic eosinophilic leukemia, MPN

### Clinical Significance

FISH for FIP1L1-PDGFRA is generally found in chronic eosinophilic leukemia, but the presentation can be as acute myeloid leukemia, T-lymphoblastic lymphoma or both simultaneously. Detection of this abnormality predicts responsiveness to tyrosine kinase inhibitors. PDGFRA rearrangement is usually cryptic by routine cytogenetic analysis.

### Specimen Requirements

- **Bone Marrow Aspirate:** 1-2mL Sodium Heparin Tube. EDTA tube is acceptable
- **Peripheral Blood:** 2-5mL Sodium Heparin Tube. EDTA tube is acceptable
- **Fresh, unfixed tissue:** Tissue in RPMI
- **Fluids:** Equal parts RPMI to specimen volume.
- **Paraffin block:** Send paraffin block. Also send circled H&E slide for tech-only (required).
- **Cut slides:** H&E slide (required) plus 4 unstained slides cut at 4-5 microns. Circle H&E slide for tech-only.
- **Note:** Please exclude biopsy needles, blades, and other foreign objects from transport tubes. These can compromise specimen viability and yield, and create hazards for employees.

### Storage & Transportation

Refrigerate specimen. Do not freeze. Use cold pack for transport, making sure cold pack is not in direct contact with specimen. For fresh samples: ship same day as drawn whenever possible; specimens <72 hours old preferred.

### CPT Code(s)\*

88374x1 automated or 88377x1 manual.

### New York Approved

Yes

### Level of Service

Technical, Global

### Turnaround Time

3-5 days

\*The CPT codes provided with our test descriptions are based on AMA guidelines and are for informational purposes only. Correct CPT coding is the sole responsibility of the billing party.

Please direct any questions regarding coding to the payor being billed.

NeoGenomics Laboratories is a specialized oncology reference laboratory providing the latest technologies, testing partnership opportunities, and interactive education to the oncology and pathology communities. We offer the complete spectrum of diagnostic services in molecular testing, FISH, cytogenetics, flow cytometry, and immunohistochemistry through our nation-wide network of CAP-accredited, CLIA-certified laboratories.

Committed to research as the means to improve patient care, we provide Pharma Services for pharmaceutical companies, in vitro diagnostic manufacturers, and academic scientist-clinicians. We promote joint publications with our client physicians. NeoGenomics welcomes your inquiries for collaborations. Please contact us for more information.

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9490 NeoGenomics Way  
Fort Myers, FL 33912  
Phone: 239.768.0600/ Fax: 239.690.4237  
neogenomics.com  
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