



# Test Catalog

Diagnostic. Prognostic. Predictive. Predisposition.



## EGFR Amplification

### Alternative Name

Epidermal growth factor receptor

### Methodology

FISH

### Test Description

**Probes:** EGFR (7p11.2) | Centromere 7

**Disease(s):** Brain, lung, colorectal, gastric, breast cancers

### Clinical Significance

FISH analysis for amplifications of EGFR (aka ERBB1 or HER1) can be used for prognostic and therapeutic consideration in various solid tumors such as glioblastoma, lung, colorectal, gastric, and breast. Amplifications are typically associated with poor prognosis, while presence and level of amplification may not correspond to level of protein expression or response to anti-EGFR therapy in gastrointestinal cancers. High gene copy number may indicate poor prognosis in gastric and triple-negative breast cancers. However, its role in treating breast cancer and other tumors with EGFR/HER2/HER4 inhibitors is under investigation.

### Specimen Requirements

- **Bone marrow aspirate:** N/A
- **Peripheral blood:** N/A
- **Fresh, unfixed tissue:** N/A
- **Fluids:** N/A
- **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.

### Storage & Transportation

Use cold pack for transport. Make sure cold pack is not in direct contact with specimen.

### CPT Code(s)\*

88377x1 manual or 88374x1 automated.

### New York Approved

Yes

### Level of Service

Global, Technical

### Turnaround Time

3-5 days

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.

\*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.



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