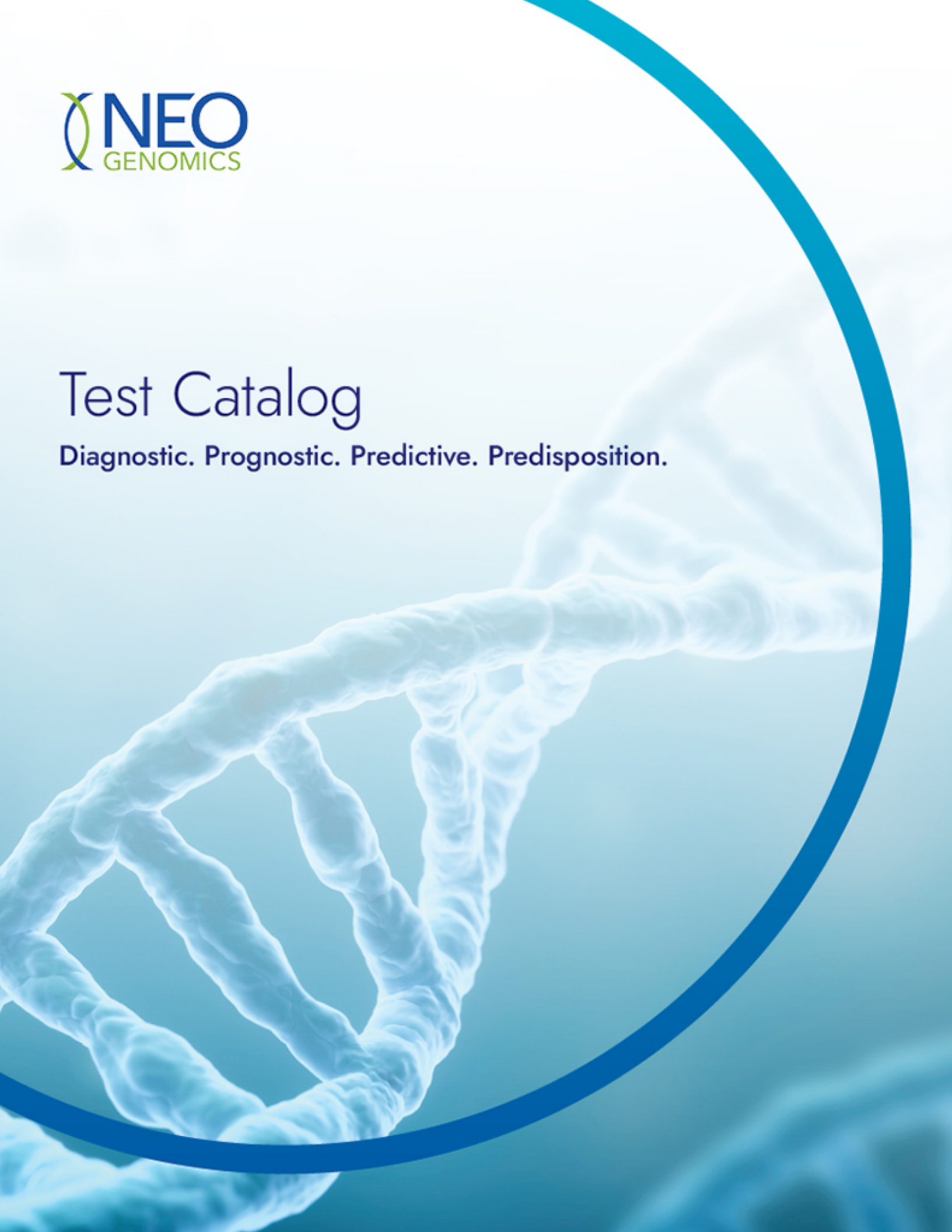
NEO GENOMICS

Test Catalog

Diagnostic. Prognostic. Predictive. Predisposition.



KRAS Mutation Analysis by PCR

Alternative Name
KRAS Gene Sequencing, KRAS (Kirsten rat sarcoma virus)

Methodology
Molecular

Test Description
The KRAS Mutation Analysis Assay is a real-time PCR-based assay designed to detect somatic mutations in exons 2, 3 and 4 of the KRAS gene. This assay is designed to detect the following KRAS mutations: Exon 2 - G12C, G12A/D/R/V/S and G13D; Exon 3 - A59E/G/T and Q61H/L/R; Exon 4 - K117N/R/E and A146T/P/V. Testing is available separately or in combination with BRAF, HRAS and NRAS in the RAS/RAF Panel.

Clinical Significance
KRAS mutations are frequently found in many human cancers, particularly non-small cell lung cancer (NSCLC), colorectal cancer (CRC), and pancreatic cancer. KRAS mutations occur most commonly in hotspots at codons 12 and 13 of exon 2. KRAS G12C mutation in NSCLC patients may predict response to targeted RAS GTPase inhibitors including sotorasib and adagrasib. CRC patients with any known KRAS mutation (exons 2, 3, and 4) are associated with resistance to anti-EGFR targeted antibody therapies such as cetuximab or panitumumab with the exception as part of a regimen targeting a KRAS G12C mutation.

Specimen Requirements
- **FFPE solid tumor tissue:** Paraffin block is preferred. Alternatively, send 1 H&E slide plus 5-10 unstained slides cut at 5 or more microns. Please use positively-charged slides and 10% NBF fixative. Do not use zinc fixatives.

Storage & Transportation
Use cold pack for transport, making sure cold pack is not in direct contact with specimen.

CPT Code(s)*
81275, 81276

Medicare MolDX CPT Code(s)*
81479

New York Approved
Yes

Level of Service
Global

Turnaround Time

7 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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