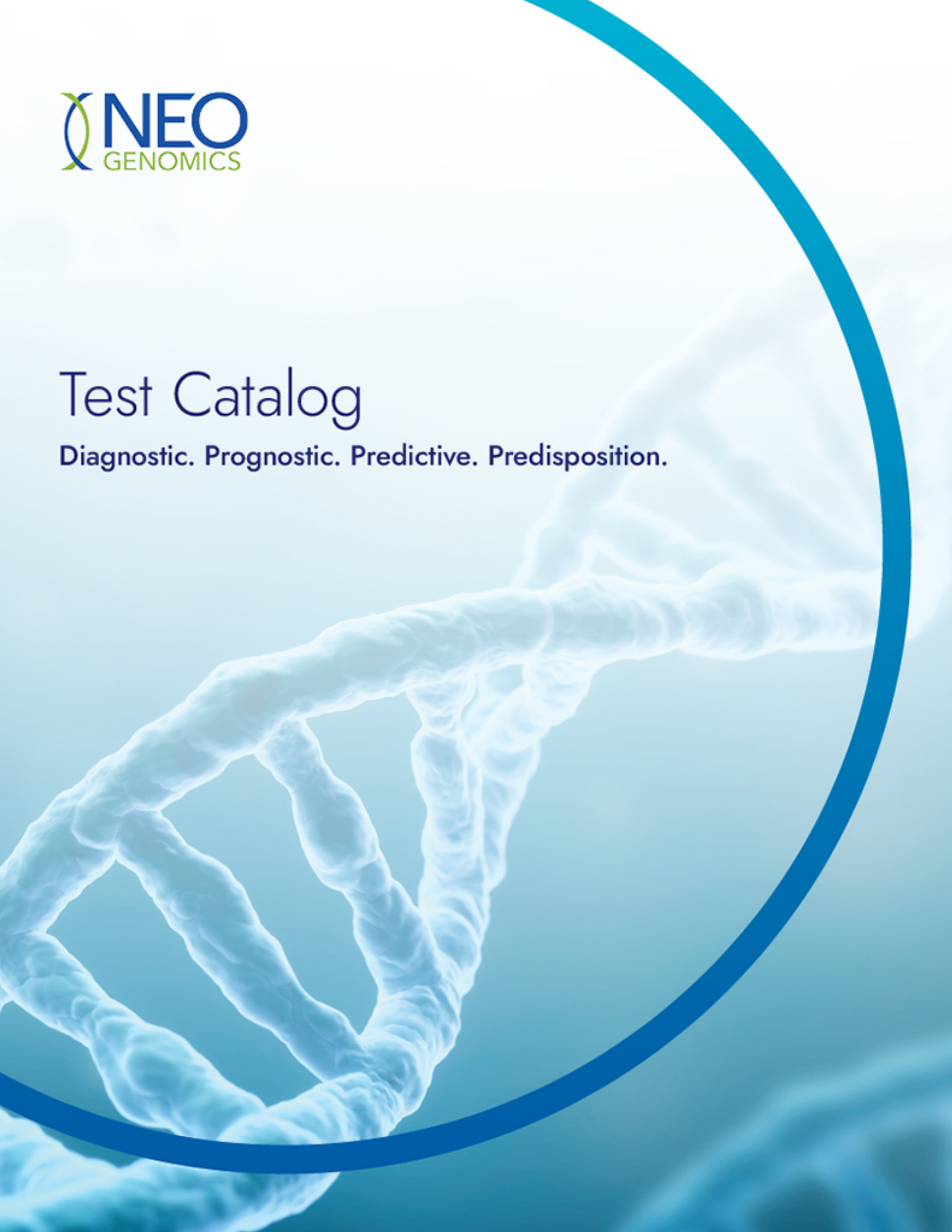
NEO GENOMICS

Test Catalog

Diagnostic. Prognostic. Predictive. Predisposition.



TP63 Rearrangement

Alternative Name
TBL1XR1/TP63

Methodology
FISH

Test Description
Probes: TP63 (3q28) | TBL1XR1/TP63 [inv(3)(q26q28)]

Disease(s): Anaplastic large cell lymphoma (ALCL), peripheral T-cell lymphoma (PTCL)

Note: Probes are not orderable separately; concurrent analysis is necessary due to proximity of breakpoints in the most common fusion rearrangement.

Clinical Significance
TP63 gene rearrangements encoding p63 fusion proteins define a subset of ALK-negative anaplastic large cell lymphoma (ALCL) cases and are associated with aggressive course and poor outcome compared to peripheral T-cell lymphoma (PTCL) cases without these rearrangements. This test includes targeted analysis for the TBL1XR1/TP63 fusion, which has also been reported in diffuse large B-cell lymphoma (DLBCL) and follicular lymphoma. Positive results will be reported for this fusion or TP63 gene rearrangement with another partner not identified by this assay.

Specimen Requirements
- **Bone Marrow Aspirate:** N/A
- **Peripheral Blood:** N/A
- **Fresh, Unfixed Tissue:** N/A
- **Fluids:** N/A
- **Paraffin Block:** H&E slide (required) plus paraffin block. Circle H&E for tech-only.
- **Cut Slides:** H&E slide (required) plus 2 unstained slides cut at 4 microns. Circle H&E for tech-only.

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

CPT Code(s)*
88377x2 manual or 88374x2 automated

New York Approved
Yes

Level of Service
Global, Technical

Turnaround Time

3-5 days

References

1. Pedersen MB et al. DUSP22 and TP63 rearrangements predict outcome of ALK-negative anaplastic large cell lymphoma: a Danish cohort study. *Blood*. 2017;130:554-557.
2. Parrilla Castellar ER et al. ALK-negative anaplastic large cell lymphoma is a genetically heterogeneous disease with widely disparate clinical outcomes. *Blood*. 2014;124:1473-80.
3. Vasmatzis G et al. Genome-wide analysis reveals recurrent structural abnormalities of TP63 and other p53-related genes in peripheral T-cell lymphomas. *Blood*. 2012;120:2280-2289.
4. Scott DW et al. TBL1XR1/TP63: a novel recurrent gene fusion in B-cell non-Hodgkin lymphomas. *Blood*. 2012;119 4949-4952.

*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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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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