

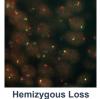
GoProDx[™] **Prostate Cancer Prognostics**

What is GoProDx™?

GoProDx[™] is a prostate cancer prognostic test that uses fluorescence in situ hybridization (FISH) technology to analyze critical biomarkers that are most indicative of a patient's outcome for prostate cancer.

By testing for PTEN/ERG mutations, GoProDx[™] provides clinicians with important data about a cancer's aggressiveness. Furthermore, GoProDx[™] can be an essential tool for risk stratification and treatment selection for patients with Gleason scores of 6 or 7, an atypical prostate cancer diagnosis, and HGPINs.







These images show normal PTEN patterns and hemizygous and homozygous deletions, which are associated with more aggressive tumors and increased risk of metastasis.

Why order GoProDx™?

- Two Biomarkers Are Better Than One: Analyzing PTEN and ERG together gives the clearest picture regarding prognosis including clinical outcome and prediction of recurrence.
- **Rapid Turnaround:** 3-5 day TAT allows for quicker decisions for patients with a more aggressive cancer.
- Low QNS Rate: GoProDx™ can be run with as few as 50 cancer cells, which makes our QNS rate significantly lower than our competitors' rate.
- GoPath's FISH Expertise: We have several years of experience in FISH testing, which is why GoPath offers the most comprehensive and accurate diagnostics available.
- **Guides Treatment Decisions:** GoProDx[™] provides insight on a cancer's responsiveness to treatments. For example, prostate cancer patients with ERG overexpression have shown radiotherapy resistance in early studies and patients may benefit with the addition of androgen deprivation therapy.^{1,2,3} Also, when PTEN loss is exhibited, a patient may respond to Rapamycin (p13K-pathway targeted) therapy.^{4,5}
- Helps Predict Prognosis: Knowing PTEN/ERG status can help when determining a prognosis. For example, in one study, patients with ERG rearrangement and PTEN deletion demonstrated significantly worse relapse-free survival rates compared to those with ERG or PTEN wild type.1
- **Disease Progression:** GoProDx[™] gives clinicians an assessment of how their patient's cancer is progressing. (See Risk Stratification Chart below).

GoProDx[™] Risk Stratification Chart:

PTEN and ERG by FISH Scenarios Low Grade Gleason Score: 6 and 7 in Needle Biopsies	
Scenarios	Prediction
PTEN intact ERG not rearranged	Favorable (slow) progression
PTEN deletion and/or ERG rearrangement	Unfavorable prognosis/aggressive
PTEN intact and ERG rearranged	Intermediate to less than favorable outcome
PTEN deleted and ERG not rearranged	Intermediate to aggressive outcome



For a list of all molecular tests, visit our website at www.gopathlabs.com



Why GoPath?

- **Cutting Edge Lab:** We are a state-of-the-art, CAP-accredited, CLIA-certified laboratory staffed by molecular diagnostic-trained specialist pathologists.
- **Billing:** We treat ALL patients as in-network regardless of their insurance company's contracted status. **Cancer does not only affect the well-insured.** For this reason, we have created a comprehensive indigent and financial hardship plan to ensure that your patients have access to the tests they need.
- In-House Pathology: On-site pathologists available for consultation on any case.
- Specimen Handling: We are experienced at retrieving tissue blocks (FFPE) from in-house facilities or the hospital where the specimen was stored. Simply indicate the facility name and address/city/state on the test requisition and GoPath will do the rest.
- Connectivity: Customizable access to test results via fax, e-mail, online and interface.
- Comprehensive Test Menu: We offer an extensive list of molecular diagnostics including liquid biopsy, FISH, ddPCR, flow cytometry and microarray analysis.



Comprehensive Reporting

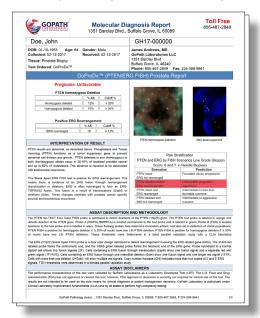
With each GoProDx[™] report, you will receive:

- An easy-to-read, color-coded prognosis/risk stratification
- Interpretation of results from our on-site pathologist
- High-resolution PTEN & ERG FISH images
- Separate charts indicating percentages of abnormal & cutoff

GoProDx™- Specimen Requirements

FFPE tissue blocks are preferred. Blanks at $4\mu m$ for 10 slides or at $8 \mu m$ for 5 slides are acceptable when blocks cannot be provided. Specimen types include: endoscopic biopsies, excisional biopsies, core needle biopsies, surgical resections and cell blocks (pleural effusions, ascites).

GoProDx[™] Sample Report and Requisition





References

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- 2. Han S, Brenner JC, Sabolch A, et al. Targeted radiosensitization of ETS fusion-positive prostate cancer through PARP1 inhibition. Neoplasia. 2013 Oct;15(10):1207-17.
- 3. Swanson TA, Krueger SA, Galoforo S, et. al. TMPRSS2/ERG fusion gene expression alters chemo- and radio-responsiveness in cell culture models of androgen independent prostate cancer. Prostate. 2011 Oct 1;71(14):1548-58. doi: 10.1002/pros.21371. Epub 2011 Mar 10.
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- 5. Bitting RL, Armstrong AJ. Targeting the PI3K/Akt/mTOR pathway in castration-resistant prostate cancer. Endocr Relat Cancer. 2013 May 20;20(3):R83-99. doi: 10.1530/ERC-12-0394. Print 2013 Jun.

