

U.S. Prostate Cancer Biomarkers Market Size, Share & Trends Analysis Report By Type (Protein Biomarkers, Metabolomic Biomarkers), By Application (Screening & Early Detection, Companion Diagnostics), By End-use, And Segment Forecasts, 2025 - 2033

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Abstracts

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Market Size & Trends

The U.S. prostate cancer biomarkers market size was estimated at USD 1.7 billion in 2024 and is expected to grow at a CAGR of 14.74% from 2025 to 2033. The market growth is driven by the rising prevalence of prostate cancer, awareness around early detection, and adoption of precision diagnostics. Advancements in liquid biopsy, genomics, and non-invasive biomarker technologies are enhancing screening accuracy and patient stratification. Additionally, the rising demand for personalized treatment planning, along with favorable reimbursement frameworks for diagnostic tests such as PSA, PCA3, and gene-expression panels (e.g., Decipher, Oncotype DX), is further accelerating market growth. Strategic collaborations and continuous R&D investment are also expanding the biomarker pipeline and commercial availability.

Prostate cancer is one of the most prevalent malignancies affecting men in the United States. According to the American Cancer Society, 1 in 8 men will be diagnosed with the disease in their lifetime. In 2022 alone, an estimated 268,500 new cases were reported, with approximately 34,500 deaths, making it the second leading cause of cancer death among American men. Today, over 3.1 million men in the U.S. are living with prostate cancer. This substantial patient population, along with limitations in traditional diagnostics such as PSA testing, which lacks specificity to distinguish

between benign and malignant conditions, has created strong demand for novel biomarkers that can enable earlier detection, improved risk stratification, and treatment personalization.

U.S. Prostate Cancer Biomarkers Market Report Segmentation

This report forecasts revenue growth and provides an analysis of the latest industry trends in each of the sub-markets from 2021 to 2033. For this study, Grand View Research has segmented the U.S. prostate cancer biomarkers market report based on type, application, and end-use:

Type Outlook (Revenue, USD Million, 2021 - 2033)

Genetic Biomarkers

Protein Biomarkers

Cell-based Biomarkers

Metabolomic Biomarkers

Application Outlook (Revenue, USD Million, 2021 - 2033)

Screening and Early Detection

Diagnosis and Risk Stratification

Prognosis and Treatment Monitoring

Companion Diagnostics

End-use Outlook (Revenue, USD Million, 2021 - 2033)

Hospitals and Diagnostic Laboratories

Academic and Research Institutes

Biopharmaceutical Companies

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