

## Oligo GEArrays® for Human Breast Cancer and Human Prostate Cancer

### New Product: Biomarker Microarrays

Since the first demonstration that gene expression profiles can serve as biomarkers for cancer classification better than the traditional pathological method [1], microarray technology has established its unique position as a potential clinical tool for the diagnosis and prognosis of specific disease states. The Oligo GEArray® Human Breast and Prostate Cancer Biomarker Microarrays are designed with clinical researchers and research pathologists in mind. They provide a simple way to monitor multiple molecular markers and verify their association with the specific cancer. These arrays allow you to profile the expression of more than 260 well-documented genes that may serve as diagnosis and/or prognosis markers for breast or prostate cancer.

In general the genes printed on our biomarker microarrays have been used in studies to stratify heterogeneous patient populations and, in certain cases, to predict the clinical outcome of disease states. Based on published databases and literature, the potential diagnosis markers included on the Breast Cancer Biomarker Microarray rank high in their association with breast cancer. The expression signatures of the potential prognosis markers included on the Breast Cancer Biomarker Microarray have been successfully used to predict the clinical outcome of breast cancer. The genes on Prostate Cancer Biomarker Microarray are also highly associated with prostate cancer based on published literature. The gene content on these microarrays is also grouped according to biological function to help track the underlying mechanisms of breast cancer progression. Use these arrays to study differential expression of known biomarkers in your breast and prostate cancer biopsies or cell lines in your laboratory.

#### Reference:

1. Golub, T.R., et al., Molecular classification of cancer: class discovery and class prediction by gene expression monitoring. Science, 1999. 286(5439): p. 531-7.

### Human Breast Cancer Microarray



**Figure 1: Quality Control Result for the OHS-402 Oligo GEArray Human Breast Cancer Biomarkers Microarray.** XpressRef™ Human Universal Reference Total RNA (3 µg Cat. No. GA-004) was used as RNA source.

### Human Prostate Cancer Microarray



**Figure 2: Quality Control Result for the OHS-403 Oligo GEArray Human Prostate Cancer Biomarkers Microarray.** XpressRef™ Human Universal Reference Total RNA (3 µg Cat. No. GA-004) was used as RNA source.

**Interested in using these microarrays in beta-test projects with clinical samples?**

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#### Biomarker Microarrays:

Human Breast Cancer Biomarker	OHS-402
Human Prostate Cancer Biomarker	OHS-403