

## A complete solution for gene expression analysis of FFPE samples

The Genisphere® Sensation™ RNA Amplification Kit and senseRNA labeling kits combined with Affymetrix® 3' IVT and Whole-Transcriptome (WT) microarrays offer a complete solution to help you extract meaningful gene expression data from challenging Formalin-Fixed, Paraffin-Embedded (FFPE) samples.

### Features and benefits:

- **Use with FFPE or degraded RNA samples**

The Sensation™ kit is designed for one round of whole transcriptome amplification using 50–200 ng total RNA. Recommended input amounts of RNA are 50 ng fresh frozen total RNA and 100 ng FFPE total RNA. As little as 30 ng FFPE total RNA may be used depending on sample quality.

- **Easy to use**

Kit components have been combined into buffer mixes and enzyme mixes, making the procedure streamlined and easy.

- **Variety of applications**

Sensation™ generates high-quality amplified RNA for further use in a wide range of expression analysis experiments including microarray, quantitative RT-PCR, and other related RNA-based applications.

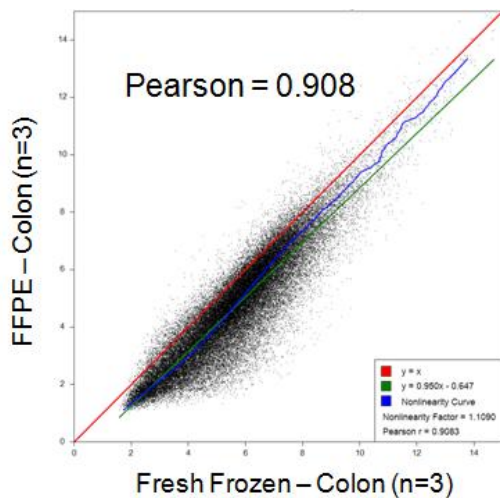
- **Compatible with industry-standard Affymetrix® Gene Expression Microarrays**

Affymetrix® GeneChip® 3' IVT and Whole-Transcriptome (WT) Microarrays provide the most comprehensive coverage of the human genome. GeneChip® Exon and Gene 1.0 ST Arrays enable detection of gene-level expression, exon-level expression, and alternative splicing in a single experiment that cannot be detected with other microarray platforms.

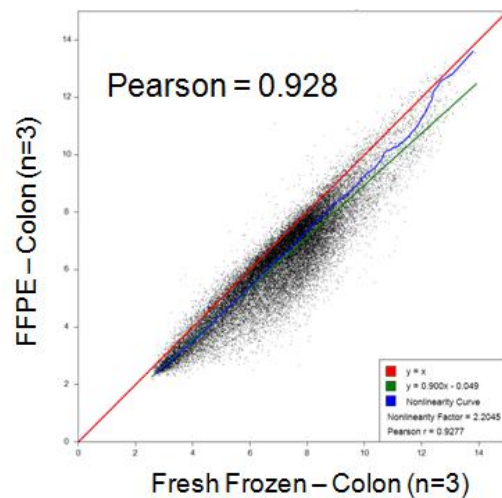
- **Greater than 90 percent correlation between FFPE and fresh frozen samples**

Matched FFPE (RIN = 2.2) and fresh frozen (RIN = 8.5) colon samples were purified and target was prepared using the Sensation Kit. Targets were then hybridized to Affymetrix® Gene Expression Microarrays.

GeneChip® Human Genome U133 Plus 2.0 Array



GeneChip® Human Gene 1.0 ST Array



- **Greater than 99 percent technical reproducibility**

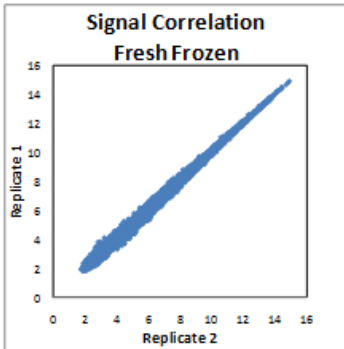
Multiple replicates were performed with the same samples and compared.

**GeneChip® Human Genome U133 Plus 2.0 Array**

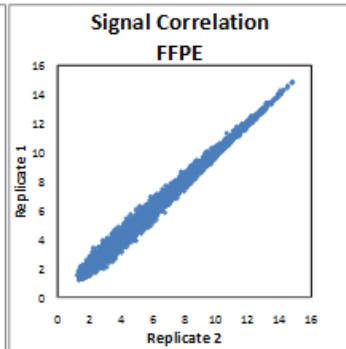
	Fresh Frozen	FFPE
Median CV, Gene Level	4.71%	7.30%
Probesets Used	38202	38202

**GeneChip® Human Gene 1.0 ST Array**

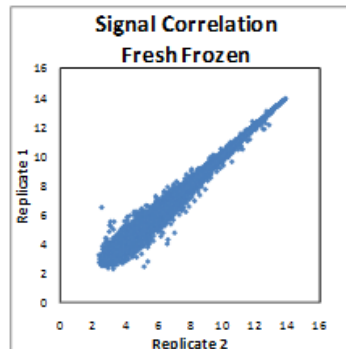
	Fresh Frozen	FFPE
Median CV, Gene Level	5.46%	6.61%
Probesets Used	33297	33297



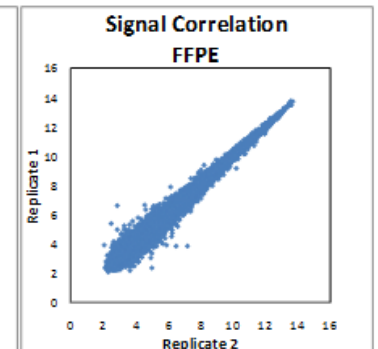
Pearson = 0.997



Pearson = 0.995



Pearson = 0.994



Pearson = 0.992

**Ordering Information**

Genisphere Part Number	Product	Description
<b>Amplification Kit</b>		
SNSAT12	Sensation	12 assays
<b>Supporting Products</b>		
SS3BIO12	Biotin Labeling Kit for 3' Arrays	12 assays
STBIO12	Biotin Labeling Kit for ST/Exon Arrays	12 assays



Affymetrix Part Number	Product	Description
900470	GeneChip® Human Genome U133 Plus 2.0 Array	Contains 2 arrays
900466	GeneChip® Human Genome U133 Plus 2.0 Array	Contains 6 arrays
900467	GeneChip® Human Genome U133 Plus 2.0 Array	Contains 30 arrays
901085	GeneChip® Human Gene 1.0 ST Array	Contains 2 arrays
901086	GeneChip® Human Gene 1.0 ST Array	Contains 6 arrays
901087	GeneChip® Human Gene 1.0 ST Array	Contains 30 arrays



**Genisphere Customer Service and Technical Support**

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