

WT-Ovation™ FFPE System

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Target preparation from
FFPE total RNA for
GeneChip® array analysis
and qPCR

NuGEN's WT-Ovation™ FFPE System
enables researchers to conduct global
gene expression analysis on small and
degraded RNA samples derived from
the vast archives of FFPE samples.

The resulting amplified cDNA can be
fragmented and labeled using NuGEN's
FL-Ovation™ cDNA Biotin Module V2
for analysis on Affymetrix GeneChip®
microarrays in the same day.

This sensitive and robust whole
transcriptome amplification process is
easy to automate and addresses
a significant technical gap in expression
profiling of FFPE samples, meeting
today's challenges in clinical research
and discovery programs.

imagine

Achieve greater sensitivity and reproducibility

more

Accelerate studies with higher throughput

from less

Access small precious samples



OVATION
SYSTEM™

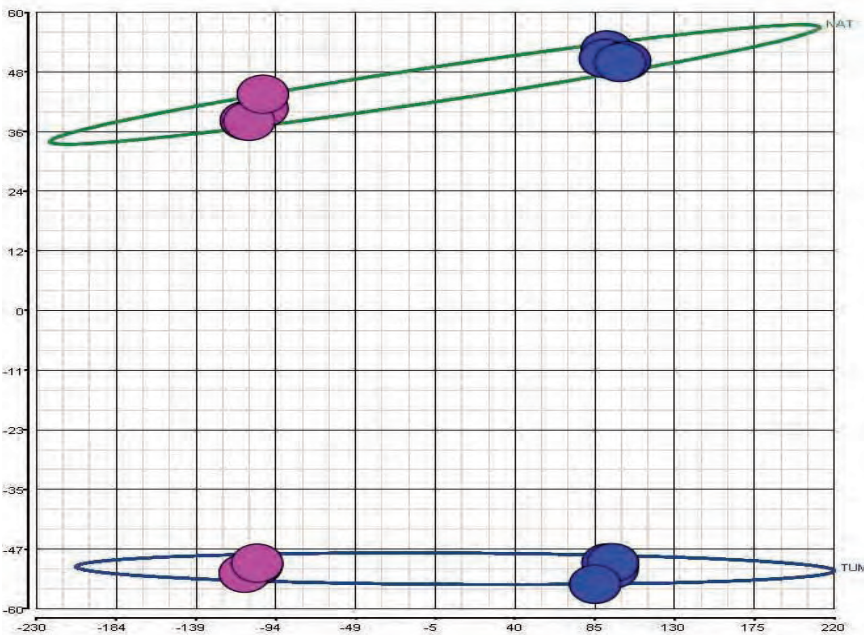
NuGEN Technologies, Inc.

www.nugeninc.com

WT-Ovation™ FFPE System

Take advantage of the superior speed, sensitivity, ease of use, performance, and convenience of the WT-Ovation™ FFPE System, today.

The NuGEN FFPE System enables the global gene expression analysis of severely limited and degraded FFPE-derived RNA. Starting with as little as 50 ng of total RNA, in six hours the system yields micrograms of cDNA sufficient for direct qPCR, cDNA sample archiving, and fragmentation & labeling for analysis on Affymetrix GeneChip® arrays. Using the FL-Ovation™ cDNA Biotin Module V2, the sample is ready to hybridize in under 2 hours, with no need for further purification. This system is built on NuGEN's Ribo-SPIA™ technology, and employs a simple add-and-incubate process that is easy to automate for high throughput discovery projects.



Principle Components Analysis (PCA) of colon tumor and normal adjacent tissue (NAT)
Targets were prepared from RNA extracted from formalin fixed paraffin embedded tissue (FFPE) from one donor (pink) and fresh frozen tissue from a second donor (blue). Each sample was amplified in quadruplicate and hybridized to Affymetrix HGU133A_2.0 GeneChip® arrays. PCA was performed using Partek Genomics Suite software. The green and blue ellipses (NAT and Tumor, respectively) define the boundary of 2 standard deviations from the centroid of each cluster indicating a statistically significant separation of samples based on the disease state of the tissue. This demonstrates that the amplification system maintains the integrity of the biological data.

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WT-Ovation™ FFPE Solutions

Catalog No.: 3400-12, 12 reactions
3400-60, 60 reactions
Input: 50 ng FFPE total RNA
Yield: 5 µg or higher, cDNA
(sufficient for at least one GeneChip array)

Technical Documents

WT-Ovation™ FFPE System User Guide
WT-Ovation™ FFPE System Quick Protocol
WT-Ovation™ FFPE System Technical Reports

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