

Target Preparation Solution for Agilent Microarray Analysis

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Prepare targets from small and degraded samples for analysis on Agilent Dual-Mode Gene Expression Arrays

NuGEN's RNA amplification and labeling solution for Agilent expression microarrays enables global gene expression analysis of small and difficult RNA samples such as those extracted from FFPE, LCM, FACS, biopsies and fine needle aspirates. The proven power and sensitivity of the WT-Ovation™ Pico and WT-Ovation FFPE RNA Amplification Systems provide robust and reproducible results from as little as 500 pg RNA.

In just a few short hours, you can prepare your difficult samples for global gene expression with confidence using NuGEN's robust amplification systems coupled with a simple labeling protocol.

imagine

achieve greater sensitivity and reproducibility

more

accelerate studies with higher throughput

from less

access small, precious samples



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SYSTEM

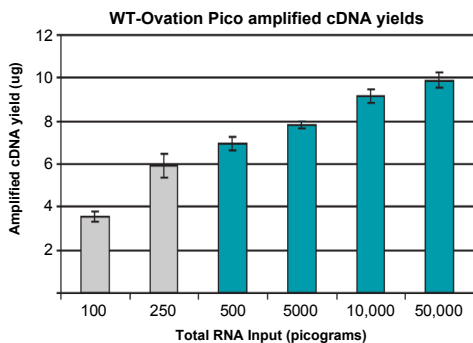
NuGEN Technologies, Inc.

www.nugeninc.com

FFPE & Small Sample Solution for Agilent Array Analysis

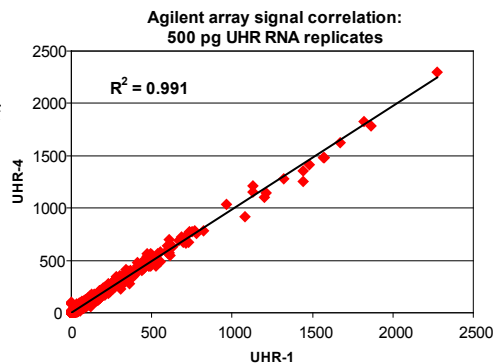
Take advantage of the superior speed, sensitivity, ease of use, performance, and convenience of NuGEN's proven target preparation solutions.

The NuGEN Target Preparation Solution for Agilent Dual-Mode Gene Expression Microarrays enables gene expression analysis of limited and degraded RNA samples on Agilent expression arrays in single or dual-color mode. Starting with as little as 500 pg total RNA, targets can be prepared for array analysis in a single day using the simple add-and-incubate protocol of the WT-Ovation Pico or WT-Ovation FFPE RNA Amplification Systems. Two ug amplified cDNA is labeled using either the Agilent Genomic DNA Enzymatic Labeling system or the Invitrogen BioPrime Total Genomic Labeling system prior to hybridization on Agilent expression microarrays using standard protocols. Agilent array-based expression studies of clinically relevant and difficult samples such as FFPE and LCM RNA are now a reality.



cDNA yields obtained from triplicate amplifications are consistent across a wide range of input total RNA amounts using the WT-Ovation Pico RNA Amplification System. Even at RNA inputs less than 500 picograms, cDNA yields are sufficient for qPCR and microarray analysis on a variety of platforms, including the Agilent Dual-Mode Gene Expression Microarray platform.

Highly reproducible and sensitive target preparation demonstrated on the Agilent Whole Human Genome 4x44K microarray format. cDNA from independent replicates of 500 pg total UHR RNA amplified using the WT-Ovation Pico RNA Amplification system were subsequently labeled using the Agilent Genomic DNA Enzymatic Labeling kit. Following array processing, scanning and feature extraction, control genes were removed, gProcessed Signals were normalized and signal values from two replicates were plotted as shown.



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NuGEN Target Preparation Solution for Agilent Expression Microarrays Amplification:

WT-Ovation™ Pico RNA Amplification System
Catalog No.: 3300-12, 12 reactions
3300-60, 60 reactions

WT-Ovation™ FFPE RNA Amplification System
Catalog No.: 3400-12, 12 reactions
3400-60, 60 reactions

Labeling:

Agilent Genomic DNA Enzymatic Labeling Kit
or
Invitrogen BioPrime Total Genomic Labeling Kit

NuGEN Technical Documents (protocol):

Agilent Solution, Application Note #1

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