



NEW INSTRUMENTS AT TATAA CORE FACILITY

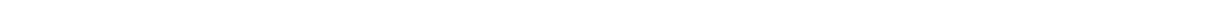
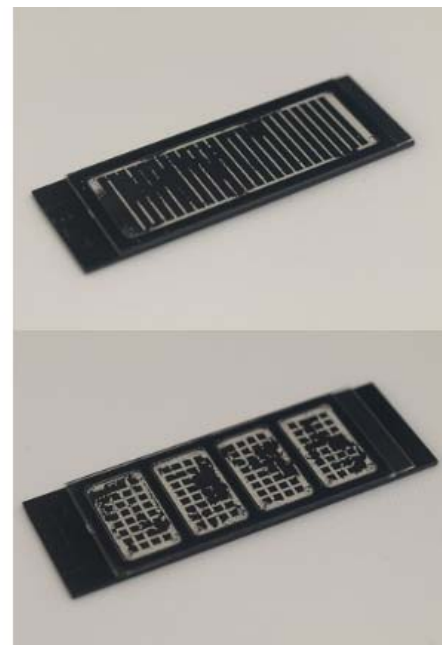
3D-GENE™ - TORAY INDUSTRIES

The 3D-Gene™ technology provides a new dimension in mRNA and miRNA microarray sensitivity and reproducibility

With the 3D-Gene™ TATAA Biocenter offers one or two color microarray analysis of mRNA, one color microarray analysis of miRNA and bioinformatics data analysis of your results.

miRNA Expression – Human, Mouse, Rat, Custom
mRNA Gene Expression – Human, Mouse, Rat, Yeast

3D-Gene™ DNA chips utilize patented resin and differential morphology to reduce background noise and microbead agitation technology to facilitate hybridization. It ensures a 100-fold increase in sensitivity and is ideal for difficult assays, poor quality samples and low abundant targets. 3D-Gene™ is thus ideal for analyses of formalin fixed paraffin embedded (FFPE) tissue samples.



QUANTSTUDIO™ 12K FLEX REAL-TIME PCR SYSTEM - APPLIED BIOSYSTEMS

An all-in-one qPCR instrument that is designed for maximum throughput, flexibility and scalability

With five interchangeable thermal cycling blocks (33 nL – 100 µl reactions), you can analyze from 1 to over 12,000 data points per run in the assay format that is right for your project. Comprehensive software analysis tools for gene expression, genotyping and digital PCR are available. TaqMan® Assays are available for all five thermal cycling blocks: OpenArray®, TaqMan® Array Card, 384-well and standard or fast 96-well blocks.

With the QuantStudio™ 12K Flex Real-Time PCR System TATAA Biocenter offers Digital PCR services, as well as High-throughput real-time quantitative PCR (qPCR) analysis services.

The QuantStudio™ 12K Flex OpenArray® Plate format enables testing from 48 samples against 18 unique assays to 12 samples against 224 unique assays. A streamlined workflow with the QuantStudio™ 12K Flex AccuFill™ System minimizes start-up and hands-on times. Data from many OpenArray Plates may be combined into the same project. With the TaqMan® Array Card it is possible to order plates with preloaded assays and just add sample and mastermix before run. The QuantStudio™ 12K Flex Real-Time PCR System has six decoupled excitation and emission filter channels for the greatest number of dye combinations and maximum multiplexing capabilities. It has four decoupled excitation and emission filter channels for the OpenArray® plates.



The QuantStudio™ 12K Flex Real-Time PCR System and the QuantStudio™ 12K Flex AccuFill™ System in TATAA's PCR lab



PIKOREAL REAL-TIME PCR SYSTEM - THERMO SCIENTIFIC

The PikoReal Real-Time PCR System is a highly flexible gene quantification and genotyping platform in a 96-well block format

The system incorporates innovative, energy-saving technologies to achieve fast performance while meeting the highest thermal requirements – all with reduced energy, plastics, and reagent consumption for real cost savings.

It uses Ultra Thin Wall (UTW) Piko PCR plates that are 25% the size of conventional plates, yet compatible with multi-channel pipettes, reagent dispensers, and automated liquid handling systems. Five detection channels enable up to four target multiplexing and it has a high temperature uniformity across the wells throughout the temperature range.

The PikoReal Real-Time PCR System has an easy-to-use software and offers users unlimited access to the PikoReal Software, which introduces the Virtual Pipetting Tool for conveniently creating and editing the plate layouts. The PikoReal software offers extensive analysis options within multiple analysis modules.



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