BIOASSAYS

StellARray® qPCR Arrays
Reveal Real Results in Gene Expression

BAR HARBOR BioTechnology

StellARray® Gene Expression System
With Patented Global Pattern Recognition™ Software

Bar Harbor BioTechnology (BHB) was founded in 2006 as the first spin-out company from The Jackson Laboratory. BHB produces and sells the StellARray® line of qPCR pre-defined, custom and specialty arrays and services. Each assay is wet-lab validated before it is shipped to ensure that every assay will work the first time and every time. Every product can be used with our proprietary **Global Pattern Recognition™ (GPR)** software for data analysis. GPR provides accurate, easy gene expression analysis without the need to identify normalizers or housekeeping genes. StellARray® is now available in Malaysia through Mbioscience Solutions Sdn Bhd.

StellARray® Predefined Arrays

The challenges in gene expression research can be compared to astronomers investigating the myriad of stellar constellations. The StellARray® Gene Expression System offers life scientists a similar approach: a revolutionary qPCR system that helps you to focus on the gene "constellations" relevant for your individual research area and frees your gene expression profiling from unwanted bias. This unique system makes gene-by-gene expression analysis, microarray data validation, biomarker discovery and siRNA knockdown verification simple, fast and reliable. Benefit from:

• **Reliable normalization without predefined normalizers:**
StellARray™ Proprietary GPR Software automatically defines the best normalizer amplicons, based on lowest variance, within seconds

• **More than 150 pre-validated pathway or disease area-specific qPCR arrays available off-the-shelf:** Just order and start comprehensive array experiments for your research area using your standard qPCR equipment

• **Copy number analysis and expression profiling using the same array plate:** effortlessly compare gene copy numbers and gene expression profiles for exactly the same sets of genes

Each StellARray® qPCR Array is a 96- or 384-well formatted, wet lab validated group of gene primer sets, focused on specific biological processes. Compatible with most real time thermocyclers and any SYBR® Green or EvaGreen® master mix to fit seamlessly into your lab

Assay Procedure

Convert Total RNA to cDNA or extract DNA

Load samples onto StellARray® qPCR Array

Run StellARray® qPCR Array on real-time PCR instrument

Analyze Data using GPR™