

PCR ARRAY SYSTEM

The qBiomarker Somatic Mutation PCR Array System is designed for rapid and accurate mutation profiling in basic research and drug discovery. The assays consist of collections of pathway- or cancer-specific assays in 96- or 384-well plate formats with a number of pathways (EGFR, ErbB2, etc.) and cancer types. Laboratory experiments have shown that the PCR arrays provide a sensitivity of as low as 1–2% mutant DNA in a background of wild-type DNA. The pathway-focused approach also enables an in-depth understanding of the mutations that are present in a specific tumor sample in a short time frame. The experiments require approximately two hours from sample to result and are easy to perform: The DNA is extracted from the sample, amplified if needed, and then used for the PCR array with any block-based real-time cyclers.

Qiagen

For info: 888-503-3187 | www.qiagen.com



PORTABLE PCR SYSTEM

The Palm PCR system is an innovative portable polymerase chain reaction (PCR) device that delivers high performance nucleic acid amplification in a small handheld format. The palm-sized, battery-powered Palm PCR thermocycler promises to extend the range of applications of this well-established technology beyond its current indoor limitations. Designed for simplicity and robustness, the Palm PCR system delivers fast and efficient amplification of a large variety of targets including very low copy number human genomic DNA. Its battery-powered automated operation (more than four hours of continuous operation on a single battery charge), extremely low power consumption (less than 5 W), and high efficiency make it ideal for both indoor and outdoor applications. It is designed to conform to the standard 9 mm spaced well format to use with a disposable plastic sample tube. The Palm PCR delivers highly accurate and reproducible results with high temperature uniformity (less than +/- 0.1 degrees Celsius).

Ahram Biosystems

For info: 408-400-0600 | www.ahrambio.com

MICRORNA PCR PANELS

The highly flexible Pick & Mix microRNA PCR Panels are for sensitive and specific quantification of custom selected microRNAs in both 96- and 384-well array formats. The Pick & Mix microRNA Panel system allows customers to design a real-time polymerase chain reaction (qPCR) array based on pre-validated LNA-enhanced microRNA PCR primers via an online array configuration tool. In simple, intuitive steps the array configuration tool guides customers through selections including choice of format: 96-well or 384-well plate format, array layout, target organism, microRNA assays, controls, and real-time PCR instrument of choice. These customized qPCR arrays are delivered ready-to-use. Reliable microRNA profiling can be achieved using only 1 pg of total RNA without need for pre-amplification and can be performed on challenging samples such as plasma, including plasma from mouse and rat where only very little sample material can be obtained.

Exiqon

For info: 888-647-2879 | www.exiqon.com

STEM CELL PLURIPOTENCY KIT

The PluriPCR Kit has been designed as a quantitative and reliable assay of five genes strongly specific to pluripotency. These genes (*Oct-3/4*, *Nanog*, *DNMT3b*, *Dppa4*, and *Rex1*) are expressed by human embryonic stem cells and induced pluripotent stem (iPS) cells, and are all sharply down regulated during differentiation. Both simple and easy to use with existing real time quantitative polymerase chain reaction (qRT-PCR) equipment, PluriPCR uses these five key genes in combination with a unique normalization method to give a reliable and quantitative readout for a cell line's pluripotency. This kit is ideally suited for all aspects of pluripotent stem cell research: To measure if culture conditions result in the loss of pluripotency, to assess the success of iPS cell nuclear reprogramming, and as a release assay in the manufacture and clinical development of pluripotent stem cells. The PluriPCR kit is fully optimized for routine quality control using either two-step or one-step qRT-PCR methods.

AMS Biotechnology

For info: +44-(0)-1235-828200 | www.amsbio.com

PCR TARGET ENRICHMENT KIT

The new HaloPlex Target Enrichment Kit revolutionizes next generation sequencing, reducing costs and saving up to 80% in sample preparation time compared to many other kits. HaloPlex Target Enrichment Kit introduces a dramatically improved polymerase chain reaction (PCR) technology that enables millions of PCR reactions in a single tube. Following fragmentation using specifically selected restriction endonucleases, and denaturing of the DNA sample, a Selector Probe library is added. Each probe, designed to hybridize to both ends of a targeted DNA restriction fragment, guides the targeted fragments to form circular DNA molecules. Only circular DNA targets are amplified, ready for sequencing using any next generation procedure, and results are highly reproducible. This new Halo Genomics kit provides a "lab-in-a-tube" solution which greatly simplifies PCR workflow, with no need for expensive instrumentation or automation.

Cambio

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