

## Thermocycling



### A smaller cycler

The personal-sized Applied Biosystems 2720 thermal cycler is designed for a full range of PCR and cycle sequencing applications, while

providing the same features, reliability, and performance found in the industry standard GeneAmp PCR System 9700. It is designed with vents in the rear, allowing several instruments to be placed tightly side-by-side to conserve bench space. An intuitive graphical user interface makes the thermal cycler simple to use. Included is a melting point ( $T_m$ ) calculator that determines the primer annealing temperature based on nearest-neighbor analysis.

<http://www.appliedbiosystems.com/>

### In the mix

USB's ready-to-use RT-PCR Master Mix (2X) and FidelityTaq RT-PCR Master Mix (2X) provide maximum convenience and optimal performance for highly sensitive and specific, one-step RT-PCR reactions in a single tube. These mixes are available with Taq DNA Polymerase, optimized for routine detection, or FidelityTaq DNA Polymerase, optimized for

high fidelity. Targets are easily detected down to 10 pg of total RNA and 1 pg of polyA RNA. <http://www.usbweb.com/>

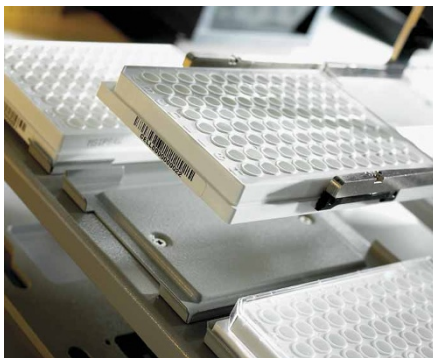
### PCR check

The Surveyor Check-It Kit for clone sequence validation is designed to analyze cloned DNA to detect mutations and errors, which may have been introduced into insert sequences during the PCR amplification and cloning processes, or to verify the presence of desired mutations deliberately introduced by site-directed mutagenesis. It is ideal for identifying error-free cDNA or genomic DNA clones that have been generated using PCR-based cloning methods, and verifying that clones modified specifically by site-directed mutagenesis contain the desired mutation and lack undesirable mutations. The kit eliminates the need to isolate and sequence DNA from multiple colonies.

<http://www.transgenomic.com/>

## High-throughput screening

### Filter plates



MultiScreen HTS filter plates, from Millipore, are specifically developed for use with automated workstations. The one-piece filter plate design features rigid sidewalls for robotic gripper arms, providing ample surface to accommodate barcode labels. A removable underdrain allows easy membrane access. The plates are optimized for general sample preparation, ELISpot, whole organism visualization and radioisotope detection applications.

<http://www.millipore.com/HTS>

### A screening platform



QTL Biosystems introduces its LightSpeed kinase platform and four new kinase activity assays. Built using QTL's patented super-quenching polymer technology, which delivers universal mix and measure assays that do not require antibodies or radioactive labels, the kinase platform is compatible with standard fluorescent instrumentation and works with peptide or protein substrates. The kinase assays are used to target the molecular processes of the cell and to develop new treatments for cancer (Akt1, P38a), diabetes (PKCa), and leukemia and lymphoma (Src).

<http://www.qtlbio.com/>

### Screening for drugs



Hamamatsu's Fluorescence Drug Screening System 6000 is a modular, imaging-based plate reader for cellular assays, assay development and high-throughput screening. It features an internal flexible robot, 96/384-well injectors and two detection units for both fluorescent and/or luminescent kinetic measurement, and is ideal for applications such as membrane potential, ion channel FRET, aequorin and flash luciferase assays.

<http://www.hama-comp.com/>