PERSONAL UV-VIS SPECTROPHOTOMETER
The NanoDrop Lite is a compact ultraviolet-visible microvolume spectrophotometer. The new instrument is small enough to fit in a drawer, but powerful enough to help accelerate life science workflows related to sequencing, polymerase chain reaction (PCR)/real-time PCR, protein isolation, antibody production, HLA typing, and other applications. While NanoDrop Lite is designed with fewer features than the 2000 or 8000 series, it delivers where it counts: rapid, accurate, and reproducible microvolume measurements without the need for dilutions. It uses the same sample retention technology that has become a hallmark of NanoDrop instruments and surfaces can simply be wiped clean between samples. Features include local control and an optional docking printer that prints freezer-compatible, adhesive labels, offering even more convenience in the lab. The NanoDrop Lite can measure nucleic acid and protein concentration in sample sizes between 1.0 and 2.0 µL and can measure 260/280 ratios for nucleic acids.

Thermo Fisher Scientific
For info: 877-724-7690 | www.thermoscientific.com/nanodrop

NEXT GENERATION SEQUENCING SYSTEM
The HiSeq 2500 is a next generation sequencing system that enables researchers and clinicians to sequence an entire genome in approximately 24 hours. The HiSeq 2500 offers: Unprecedented speed and flexibility with two modes allowing researchers to generate 120 gigabases (Gb) of data in 27 hours, or 600 Gb in a standard HiSeq run; high-quality data with a system that uses proven SBS chemistry that has made both the HiSeq 2000 and the MiSeq systems the most accurate next generation sequencers; expanded applications enabling researchers to sequence a human genome or 20 exomes in a day, or 30 RNA sequencing samples in as little as five hours; industry-leading simplicity and ease-of-use with an integrated cluster generation process that enables a simplified workflow; and a simple, field-based upgrade for the HiSeq 2000.

Illumina
For info: 800-809-4566 | www.illumina.com

NGS LIBRARY PREP MODULES
The NEXTflex DNA, ChiP-Seq, and PCR-Free Modules offer increased flexibility to next generation sequencing (NGS) library preparation. Modules are available for each step in the library preparation protocol including end repair, adenylation, ligation, and polymerase chain reaction (PCR). The modules are suitable for the library preparation from genomic or ChIP DNA for sequencing using Illumina’s GAIIx, HiSeq, and MiSeq instruments. They provide substantial cost savings for scientists who will be preparing 100 or more samples for sequencing. The master mix modules streamline the workflow and in combination with up to 96 NEXTflex Barcodes, these modules are ideally suited for high throughput library preparation. The ligation modules feature the proprietary “Enhanced Adapter Ligation Technology” which results in library preps with a larger number of unique sequencing reads. Every NEXTflex Module passes rigorous enzymatic quality control and is functionally validated by sequencing on an Illumina platform.

Bioo Scientific
For info: 888-208-2246 | www.biooscientific.com

GENE FRAGMENTS
gBlocks Gene Fragments are double-stranded, sequence-verified genomic blocks up to 500 base pairs. Their high sequence fidelity and rapid delivery time makes gBlocks Gene Fragments ideal for a range of biology applications, including easy assembly of multiple gene fragments to reliably generate larger gene constructs. gBlocks Gene Fragments significantly reduce the cost for synthetic gene synthesis to less than US$0.20 per base pair. gBlocks Gene Fragments are provided as linear double-stranded DNA rather than already cloned into a vector, meaning that they can be easily and quickly utilized for a wide range of applications including custom protein synthesis, microRNA analysis, and in vitro transcription. For this reason, they are available with or without 5’ phosphate modification depending on the required application. Each order is supplied as 200 ng of dried DNA, ensuring maximal stability prior to use, with most orders delivered within 3–4 business days.

Integrated DNA Technologies
For info: 800-328-2661 | www.idtdna.com

1-STEP RT-PCR KIT
The 1-Step RT-PCR Kit is designed for optimal convenience in carrying out highly sensitive and specific reverse transcription polymerase chain reactions (RT-PCR) in a single tube. 1-Step RT-PCR is a variation of the standard two-step RT-PCR, in which all components of the RT and PCR are mixed in one tube prior to starting the reactions so that RT and PCR can be carried out sequentially in one tube. The one-step method offers tremendous convenience when applied to analysis of single targets from multiple RNA samples and minimizes the possibility for introduction of contaminants into reactions between the RT and PCR steps. 1-Step RT-PCR Kit includes: AMV Reverse Transcriptase (from avian myeloblastosis virus), an optimized enzyme Taq DNA Polymerase (from Thermus aquaticus), a unique 10x concentrated RT-PCR buffer, our dNTP mixture, ribonuclease inhibitor, and DEPC-treated water.

G-Biosciences
For info: 800-628-7730 | www.gbiosciences.com

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Editor's Summary