ChIP Kit

The Chromatrap Enzymatic Shearing Kit provides an excellent method for the preparation of high-quality, ideally fragmented chromatin for chromatin immunoprecipitation (ChIP) analysis. The success of a ChIP assay is largely dependent on the quality of chromatin prepared. The kit provides buffers to optimize the shearing conditions of your chromatin by enzymatic digestion. Chromatin prepared using this kit demonstrates excellent enrichment, independent of starting cell number; with its quick and simple protocol, it is the perfect, cost-effective alternative to sonication. The kit contains all the reagents and buffers necessary for up to 10 chromatin preparations. This generates enough chromatin to perform up to 24 ChIPs using a standard Chromatrap ChIP spin column kit, or up to 96 ChIPs using the Chromatrap 96 high-throughput microplate kit.

Porvair Sciences
For info: +44-(0)-1978-666222
www.chromatrap.com/enzymatic-shearing

Liposomes

Fuse-It-mRNA enables immediate messenger RNA (mRNA) transfer and highly efficient protein synthesis in difficult-to-transfect cells. With this innovative reagent, ibidi offers an easy and efficient method for endosome-independent mRNA transfer, accompanied by extremely low cytotoxicity, in primary cells (e.g., neurons or human umbilical vein endothelial cells) or stem cells. The Fuse-It liposomal carrier, which includes the mRNA, simply fuses with the cell membrane and then releases the mRNA directly into the cytoplasm. mRNA translation starts immediately, without the interfering processes of endocytosis, lysosomal degradation, or mitosis. Based on the charge of natural cell membranes, these liposomes are able to effectively fuse with most cell types. Cell lines, nonproliferating cells (e.g., neurons), and a broad spectrum of hard-to-transfect primary cells can directly translate the mRNA in the cytosol. Membrane fusion with Fuse-It-mRNA results in fast and extremely effective protein expression with no risk of genomic integration.

ibidi
For info: 844-276-6363
http://ibidi.com

Single-Day RNA Libraries

Generate superior ribosomal RNA (rRNA)-depleted RNA-sequencing libraries in a single day with the new KAPA RNA HyperPrep Kits with RiboErase. A choice of kits exists for rRNA depletion, messenger RNA (mRNA) capture, or no depletion. Even when starting with low-input amounts and degraded samples, the kits generate libraries with a more complete representation of the transcriptome—including precursor mRNAs and noncoding RNA. Reduce hands-on and overall time through fewer enzymatic and reaction cleanups, enabling single-day library construction, including rRNA depletion, and increase success rates with 25 ng–1 µg total RNA from human, mouse, or rat species—even from FFPE samples. Identify more unique transcripts/genes from the same amount of sequencing by wasting fewer reads on rRNA carryover and PCR duplicates, while obtaining more uniform distribution of reads across transcripts, including guanine-cytosine–rich transcripts, through KAPA's efficient HiFi DNA Polymerase system. Maintain over 99% strand specificity. For your convenience, HyperPrep Kits also contain KAPA Pure Beads for reaction purifications.

KAPA Biosystems
For info: 855-527-2246
www.kapabiosystems.com

Electrophoresis System

The MiniGEL Electrophoresis System is an all-in-one electrophoresis system that comes with all components required to cast and run horizontal gels. MiniGEL includes combs, gel trays, casting stand, gel tank, and digital power supply. The power supply attaches to the gel tank without requiring power cables, saving valuable bench space. The unit is safe to use and can only be operated once the lid is in place. The lid is vented to dissipate heat produced during the process. Double-sided combs are included. The smaller tooth combs are compatible with multichannel pipettes. The gel tray features a dark contrast strip to aid loading, and lines that fluoresce under UV or blue light to track the progress of the run. Applications for the system include Northern and Southern blotting, cosmid library restriction analysis, sequence-tagged site screening, microsatellite analysis, PCR fragment analysis, restriction fragment length polymorphism analysis, DNA fingerprinting, and high-throughput analysis.

Hercuvan Lab Systems
For info: 858-335-8871
www.hercuvan.com

Oligonucleotide Synthesis Service

Eurofins Genomics has launched a DNA synthesis service in the United States for scientists who need small quantities of extremely effective starting material for routine molecular and synthetic biology applications. The service is based on the company's revolutionary new DNA synthesis technology that rapidly generates high-fidelity, quality contol–verified oligos. As part of this service, the company has also introduced EXTREmer oligonucleotides, extremely long oligos that are developed using high-precision synthesis chemistry on the company's new DNA synthesis platform. Designed for synthetic biology, next-generation DNA sequencing, and other growing applications, these oligos are provided at low yield and with low error rates, and can lead to increased success and reduced timelines in a variety of common molecular biology experiments.

Eurofins Genomics
For info: 800-688-2248
www.eurofinsgenomics.com

Custom DNA and RNA Oligos

Integrated DNA Technologies (IDT) has optimized its proprietary synthesis and quality control methods to develop Ultramer DNA and RNA Oligonucleotides. Ultramer DNA Oligos are 45–200 nucleotides in length, and are available single- or double-stranded. These long DNA oligos are designed to meet the most demanding molecular biology applications, including site-directed mutagenesis, in vitro transcription, DNA-directed RNAi interference, and next-generation sequencing. Ultramer DNA Oligos are deprotected and desalted, and can be delivered in tubes or plates. Similarly, Ultramer RNA Oligos are long, single-stranded RNA of 60–120 nucleotides. They enable greater specificity, flexibility, and performance in applications requiring RNA, such as single guide RNA in CRISPR, long RNAs in RNA therapeutics development, and RNA controls in qPCR. Every Ultramer DNA and RNA Oligo is assessed by mass spectrometry to verify sequence integrity, using IDT's proprietary electrospray ionization method. Ultramer oligos are delivered with a choice of guaranteed yields for convenience.

Integrated DNA Technologies
For info: 319-626-8460
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