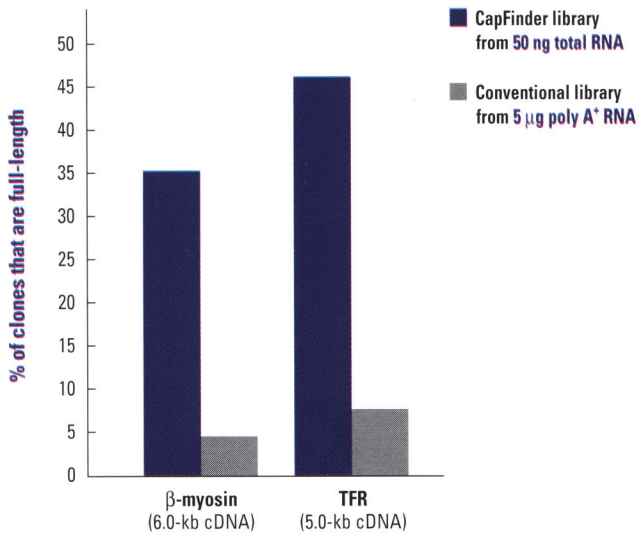


Figure 1. CapFinder cDNA libraries contain a higher percentage of full-length β-myosin and transferrin receptor (TFR) clones than are found in conventional cDNA libraries. CapFinder and conventional libraries were constructed in λgt11 using 50 ng of human skeletal muscle total RNA and 5 µg of poly A^+ RNA, respectively. For both genes, the percentage of clones having the full-length sequence was inferred from the ratio of plaques that hybridized with the 5′-end cDNA probe to the number that hybridized with the 3′-end probe on duplicate filters.

Now you can synthesize high-quality double-stranded cDNA from flow-sorted cells, tissue sections, embryonic cell samples, or biopsies. With CLONTECH's new **CapFinder™ PCR cDNA Library Construction Kit** (K1051-1), only **50 ng of total RNA** yields representative cDNA libraries highly enriched for full-length clones. This novel technology uses long-distance PCR and the unique CapSwitch™ oligonucleotide (patent pending) to generate high yields of full-length, double-stranded cDNA from small quantities of total RNA. Only from CLONTECH. For more information or to place an order, call **800-662-CLON** or contact your local distributor.

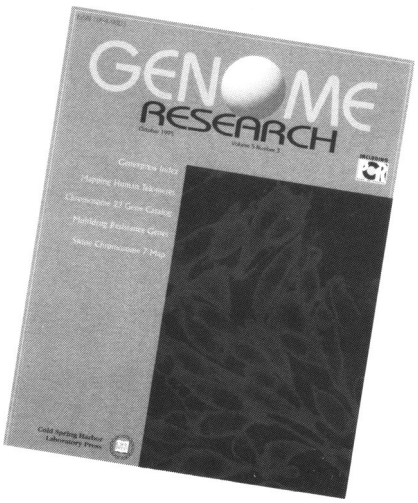
CLONTECH
NOW YOU CAN.

1020 East Meadow Circle, Palo Alto, California 94303 USA
FAX: 800-424-1350 415-424-1064 • TEL: 800-662-CLON 415-424-8222
E-mail: tech@clontech.com orders@clontech.com • Internet: http://www.clontech.com

Reader Service No. 243

WHERE IS *GENOME RESEARCH* ABSTRACTED AND/OR INDEXED?

Cambridge Scientific Abstracts
Chemical Abstracts
Current Awareness in Biological Sciences
Current Contents/Life Sciences
Excerpta Medica/EMBASE
Index Medicus/MEDLINE
ISI/Biotechnology Citation Index
Reference Update
Science Citation Index



Editorial office: Cold Spring Harbor Laboratory Press, 1 Bungtown Road, Cold Spring Harbor, New York 11724-2203. Phone 516-367-8492; FAX 516-367-8334.

GENOME RESEARCH (ISSN 1088-9051) is published monthly for $495 (U.S. institutional; $545 R.O.W.), $95 (individual making personal payment; $145 R.O.W., includes airlift) by Cold Spring Harbor Laboratory Press, 1 Bungtown Road, Cold Spring Harbor, New York 11724. Periodicals postage pending is paid at Cold Spring Harbor and additional mailing offices. POSTMASTER: Send address changes to Cold Spring Harbor Laboratory, 10 Skyline Drive, Plainview, New York 11803-2500.

Subscriptions: Barbara Terry, Subscription Manager. Personal: U.S. $95; R.O.W. $145 (includes airlift). Institutional: U.S. $495; R.O.W. $545 (includes airlift). Orders may be sent to Cold Spring Harbor Laboratory Press, Fulfillment Department, 10 Skyline Drive, Plainview, New York 11803-2500. Telephone: Continental U.S. and Canada 1-800-843-4388; all other locations 516-349-1930. FAX 516-349-1946. Personal subscriptions must be prepaid by personal check, credit card, or money order. Claims for missing issues must be received within 4 months of issue date.

Advertising: Teresa Tiganis, Advertising Manager, Cold Spring Harbor Laboratory Press, 1 Bungtown Road, Cold Spring Harbor, New York 11724-2203. Phone: 516-367-8351; FAX 516-367-8334.

MAPPING THE HUMAN GENOME

Advanced by a diverse range of 8-Base Cutters from New England Biolabs

At New England Biolabs, we are dedicated to producing highly-pure restriction enzymes for the manipulation and analysis of genomic DNA. Our diverse range of 8-base cutters includes recombinant Not I, Asc I and Sfi I. And now, NEB introduces recombinant Fse I which offers both the exceptional purity and unmatched value essential for success in your genomic research.

Fse I NEW! #588S 100 units; #588L 500 units
5'...G G C C G G▼C C...3'
3'...C C▲G G C C G G...5'

Pac I #547S 100 units; #547L 500 units
5'...T T A A T▼T A A...3'
3'...A A T▲T A A T T...5'

Asc I #558S 500 units; #558L 2,500 units
5'...G G▼C G C G C C...3'
3'...C C G C G C▲G G...5'

Pme I #560S 100 units; #560L 500 units
5'...G T T T▼A A A C...3'
3'...C A A A▲T T T G...5'

Not I #189S 500 units; #189L 2,500 units
5'...G C▼G G C C G C...3'
3'...C G C C G G▲C G...5'

Sfi I #123S 2,000 units; #123L 10,000 units
5'...G G C C N N N N▼N G G C C...3'
3'...C C G G N▲N N N N C C G G...5'

For more information on 8-Base Cutters from New England Biolabs, call 1-800-NEB-LABS or via the internet: <info@neb.com>
NEB home page: <http://www.neb.com>

- **New England Biolabs Inc.** 32 Tozer Road, Beverly, MA 01915 USA 1-800-NEB-LABS Tel. (508) 927-5054 Fax (508) 921-1350 email: info@neb.com
- **New England Biolabs Ltd., Canada** Tel. (800) 387-1095 (905) 672-3370 Fax (905) 672-3414 email: info@ca.neb.com
- **New England Biolabs GmbH, Federal Republic of Germany** Tel. (0130) 83 30 31 (06196) 3031 Fax (06196) 83639 email: info@de.neb.com
- **New England Biolabs (UK) Ltd.** Tel. (0800) 31 84 86 (01462) 420616 Fax (01462) 421057 email: info@uk.neb.com

NEW ENGLAND BioLabs®

20 years and beyond...

DISTRIBUTORS: Australia (075) 94-0299; Belgium (0800)1 9815; Brazil (011) 66-3565; Denmark (31) 56 20 00; Finland (90) 420-8077; France (1) 34 60 24 24; Greece (01) 5226547; Hong Kong 649-9988; India (542) 311473; Israel (03) 5351205; Italy (02) 38103171; Japan (03) 3272-0671; Korea (02) 556-0311; Mexico (5) 519-3463; Netherlands (033) 495 00 94; New Zealand (09) 418-3039; Norway 22 22 04 11; Singapore 4457927; Sweden (08) 7348300; Switzerland (061) 481 47 13; Taiwan (02) 8802913

Olympus and GFP. Building on the Brilliance.

Olympus now builds on the brilliance of GFP by making the fluorescence illuminator an integral part of the most responsive microscope you'll find today.

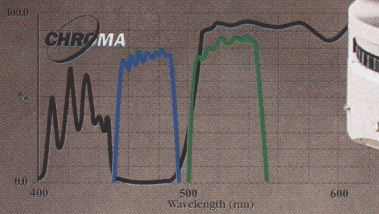
Presenting the B-Max 60 Research Microscope System.

For GFP fluorescence, the B-Max 60's built-in on axis fluorescence illuminator now handles any combination of illumination modes, incident and transmitted light, fluorescence and Nomarski DIC. So you get an all-in-one look at your most dynamic GFP-applications.

Prepared for GFP–and then some.

The B-Max 60 puts versatility to work with a universal filter turret that accepts up to four modular filter cubes. Select from a set of eight, specially developed or selected for GFP fluorescence by Chroma Technology.

Expand your options with more than 20 standard cubes – optimized for applications from ratio imaging to FISH. And for today's emerging applications, you benefit from our cube blanks for experimentation.



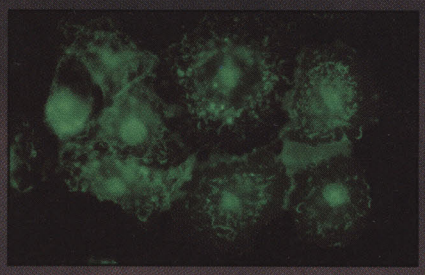
HQ GRF Bandpass Filter Set

Maximized S/N ratio.

Our Chromatically corrected collector lenses illuminate with the highest efficiency. The B-Max 60 adds just the light sources you need: Mercury, Xenon, or Halogen. You also have the spectral characteristics to match your filter choice with your GFP application – precisely. And the B-Max 60 Program puts at your disposal the tools you need to maximize S/N ratio, and reduce autofluorescence.

Flexibility of Documentation.

From photomicrography to imaging with cooled CCD's or digital cameras, the B-Max 60 is prepared to adapt any imaging devices you might have – one at a time or in tandem.



COS cells infected with adenovirus containing modified GFP. Image recorded without fixation 24 hrs. after infection.

Specimen prepared by Drs. C. Akazawa and K. Moriyoshi, and published by permission of Prof. S. Nakanishi.

Optical Excellence.

Even more, you have the advantage of Olympus UIS-Optics. Infinity corrected and conceived for today's most sophisticated fluorescence and imaging needs, they deliver the outstanding resolution and contrast your research demands.

For the brilliance of your GFP fluorescence. For the excellence of your research. Discover the B-Max 60 Series Microscope and GFP fluorescence. For more information or assistance, please call **1-800-455-8236.**

For more information write:
Olympus America Inc.
Precision Instrument Div.
Two Corporate Center Drive
Melville, NY 11747-3157

Canada:
Carsen Group, Inc.
905-479-4100

Latin America:
Miami, FL
305-266-2332
Fax:305-261-4421

B-MAX SYSTEMS
OLYMPUS

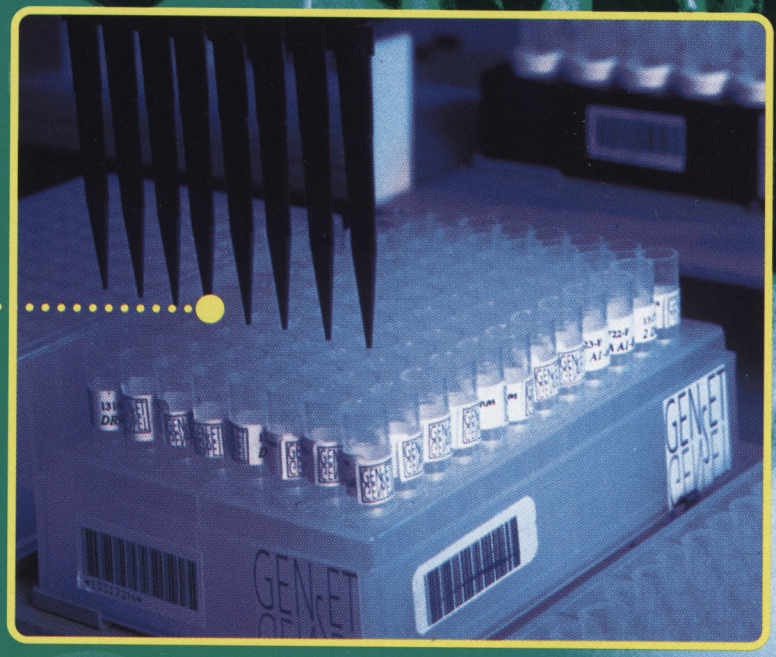
VISIT OUR WEBSITE:
http://www.genset.fr

GENSET
CUSTOM
MASS OLIGOS™

FAST, GUARANTEED AND AFFORDABLE.

Your schedule depends on receiving 1000s of oligos daily. And your budget demands affordability.

GENSET has the answer. Our new Mass Oligos custom DNA synthesis service uses innovative oligo Ultra-Fast Parallel Synthesis and automated post-synthesis processes to produce large quantities of high quality oligos on a dependable, daily basis.



So now you can get all the oligos you need. When you need them. In the format and concentrations you need. At prices you can easily afford. And all fully guaranteed.

But don't just take our word for it – many of the leading genome projects in the U.S., Europe and Japan are already using GENSET Mass Oligos.

So call us today for more information. And discover how we can be the best single source in all your oligos needs day in and day out.

$1/base
CERTAIN RESTRICTIONS APPLY

USA, Canada, Latin America
GENSET Corporation (La Jolla, CA)
Order- E-Mail: oligos@gensetlj.com
FAX: 1-800-551-5291

Europe
GENSET SA (Paris, France)
Order- E-Mail: oligos@genset.fr
FAX: (33 1) 43 56 68 18

Japan and Asia
GENSET KK (Tokyo, Japan)
Order- E-Mail: oligos@po.iijnet.or.jp
FAX: (81 3) 3585 5351

Reader Service No. 246

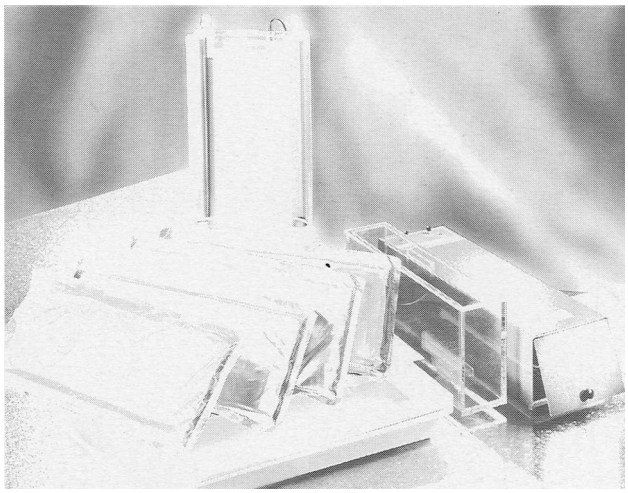
Breakthrough in DNA Sequencing Technology

Precast Sequencing Gels Allow More Time for Valuable Research

La Jolla, California. After years of research, Stratagene has just released the most advanced DNA sequencing system available. The system's prepoured, polyacrylamide gels eliminate the need to manually pour sequencing gels.

Until now there was no alternative to pouring your own sequencing gels. It took up to 2 hours of preparation to clean the plates, mix the solutions, de-gas the acrylamide, pour the gels and wait for polymerization. Stratagene's scientists have changed all that with the new CastAway™ sequencing system.

Stratagene's new sequencing system cuts both electrophoresis and gel drying times in half, so researchers using the system have found they have more time available to meet their research goals. The system components have been designed to be used together. The system includes a novel vertical sequencing device and high-speed gel dryer designed to produce superior results when used with the quality-tested precast gels.



Precast Sequencing Gels Are Here

Superior Results in Less Time

CastAway precast gels are ready to load in less than 5 minutes with no mess. While conventional procedures can take up to 6.5 hours to sequence a gel, the CastAway system takes as little as 2 hours. The procedure is simple: open the bag, place the gel in the sequencing device, run the gel and dry.

The precast sequencing gels are thinner than standard gels, so they can be run at higher temperatures. This not only shortens run times, but also reduces the possibility of band compressions. Since the CastAway gels are bound permanently to one of the glass plates, there's no need for filter paper and less risk of gel tearing. And two prepoured gels fit perfectly into a standard x-ray cassette.

Vacuum Pumps Have Become Obsolete

New High-Speed Gel Dryer Takes Over

Not only do the precast gels save run time, but the CastAway gel dryer works twice as fast as any commercially available gel dryer. The gel dryer is easy to load; the precast gels slide right in.

Researchers who currently use vacuum pumps to dry their gels will immediately notice the quiet operation of the gel dryer. Not only are vacuum pumps loud and distracting, but they are expensive to purchase and maintain. In contrast, the CastAway gel dryer is quiet, cost-effective and requires no maintenance. The new gel dryer works with the CastAway system to bring the future of sequencing into your lab.

Easy Loading Sequencing Device

Simple and Safe

Stratagene engineers have developed a vertical sequencing device that is simple and safe to operate. The new CastAway vertical sequencing device is exclusively for use with CastAway precast gels and is optimized to provide high quality results. The CastAway sequencing device features a new easy-to-use gasket; the CastAway precast gels snap in and are ready to run. An advanced thermoplate evenly diffuses the heat during electrophoresis, ensuring less artifacts and crisper bands. The CastAway sequencing device works twice as fast as conventional vertical sequencing devices to save even more valuable research time.

The CastAway system also includes convenient, stackable fixing trays for soaking gels after removal from the sequencing device, and a radiation storage container to store radioactive gels until safe for disposal.

CastAway Sequencing System Sequencing device, Gel dryer, Radiation storage container , 2 fixing trays, High voltage leads, 9 shark-tooth combs, Gasket lubricant	401098 100/120V 401099 230V
CastAway Sequencing Device Sequencing device, High voltage leads, 9 shark-tooth combs, Gasket lubricant	401070
CastAway Gel Dryer Gel dryer, Power cord	401080 100/120V 401082 230V
CastAway Precast Sequencing Gels 5 prepoured 6% polyacrylamide gels (0.25 mm)	401090
CastAway Fixing Trays	401072
CastAway Radiation Storage Container	401071

United States: 800-424-5444
InterNet Mail: techservices@stratagene.com
Australia: 1800-252-204
Austria: 1 5332666
Brazil: 11 530 7833
Canada: 905 713 1201
Denmark: 8 6101055
France: 1 34 60 2424
Germany: 0130-840911
Hong Kong: 5785839
Israel: 3 7521687
Italy: 258013409
Japan: 3 5684 1622
Korea: 2 5560311
Malaysia: 37031888
The Netherlands: 33 4950094
New Zealand: 9 443 5867
Norway: 22715090
Portugal: 1-4581641
ROC: 2 694 0066 or 2 720 2215
Singapore: 2730898
Spain: 1 729 03 33
Sweden: 8 680 0845
Switzerland: 3641106
Thailand: 23080611
United Kingdom: 0800 585370

800-424-5444 *in the U.S.*

PCR-Quality DNA from Whole Blood

IsoCode™ Stix

PCR Template Preparation Dipsticks

Introducing IsoCode Stix, a revolutionary new device for fast isolation of DNA template from blood samples — with exceptionally reproducible results.

Collect

The IsoCode Stix dipstick format facilitates the easy collection of blood samples, even at remote locations. A write-on identification feature guarantees sample traceability.

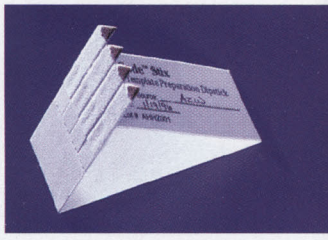
Elute

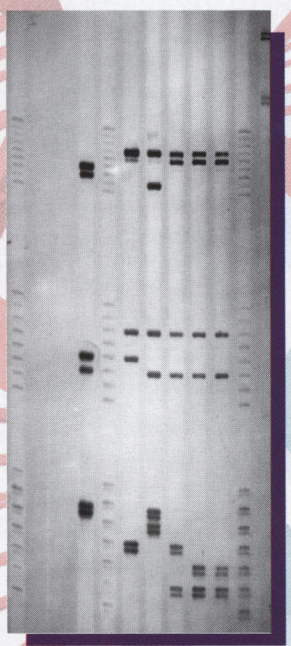
Using IsoCode Stix, researchers can isolate DNA for PCR with a simple water extraction. As the DNA is eluted, PCR inhibitors such as hemoglobin remain on the matrix, ensuring consistent results.

Store

IsoCode Stix are stored at ambient temperatures, eliminating the need for refrigeration. This stability simplifies archiving and the mailing of blood samples.

For your FREE SAMPLE of IsoCode Stix, call the S&S Technical Service Department today.





Multiplex STR analysis of human genomic DNAs isolated from dried blood spots on an IsoCode™ device.

Call: 1-800-245-4024 ■ 8 am – 8 pm EST
Outside U.S. & Canada fax: 49-5561-791536

Schleicher & Schuell

United States: Keene, NH, USA 03431 • Tel 800/245-4024 • 603/352-3810
Germany: P.O. Box 4, D-37582 Dassel, Germany • Tel (05561-7910)

E-mail: techserv@s-and-s.com

Reader Service No. 248

PCR Primer:
A Laboratory Manual

Edited by Carl W. Dieffenbach, *National Institute of Allergy and Infectious Diseases,* Gabriela S. Dveksler, *Uniformed Services University of the Health Sciences*

From its first-published account in 1985, the polymerase chain reaction has become a standard research tool in a wide range of laboratories. Its impact has been felt in basic molecular biological research, clinical research, forensics, evolutionary studies, and the Human Genome Project. The PCR technique originally conceived by Nobel laureate Kary Mullis has proven to be exceptionally adaptable and has been transformed into a myriad array of methods, each with different applications.

PCR Primer: A Laboratory Manual introduces the complex world of PCR by beginning at an accessible level and then moving to more advanced levels of application. First, the practical requirements for performing PCR and other amplification techniques in the lab are introduced and then the basic aspects of the technique are explained by exploring important issues such as sample preparation, primer design, efficiency, detection of products, and quantitation. Protocols for a wide range of PCR and amplification techniques–each written by an expert investigator–are presented for cloning, sequencing, mutagenesis, library construction and screening, exon trapping, differential display, and expression, and these include RT-PCR, RNA PCR, LCR, multiplex PCR, panhandle PCR, capture PCR, expression PCR, 3′ and 5′ RACE, in situ PCR, and ligation-mediated PCR. Each protocol is augmented by analysis and troubleshooting sections and complete references.

CONTENTS

1995, 714 pp., illus., appendices, index
Cloth $160 **ISBN 0-87969-447-5**
Plastic comb binding $99 **ISBN 0-87969-448-3**

Why are these scientists smiling?

They combined QIAGEN technology with QIAsoft™ flexibility on the BioRobot™ 9600

Call today to find out more about cost-effective miniprep automation — from the world leaders in nucleic acid purification.

QIAGEN Inc.
9600 De Soto Avenue
Chatsworth, CA 91311, USA
Orders 800-426-8157
Fax 800-718-2056
Technical 800-362-7737

Reader Service No. 250

QIAGEN

Product News. . . .

Product News features newly available equipment, laboratory materials, and software that may be of interest to the readers of this journal. Endorsement by *Genome Research* or Cold Spring Harbor Laboratory is not implied. Readers may obtain further information regarding these products by entering the appropriate numbers on the postage-free Reader Service Card included in this issue.

PCRable DNA's from 50 Unrelated Individuals (3 Different Races) and Genotyping Standard Kits

BIOS Laboratories is pleased to offer different PCRable DNA kits from unrelated individuals and three DNA Genotyping Standard Kits for polymorphism analysis. The Genotyping Standard kits may be used as control DNAs for allelic standardization in manual and automated genotyping. The DNA Standard Kits are the Parents from CEPH Family 1331 (DNA Standard Kit 1), the Parents from CEPH Family 1347 (DNA Standard Kit 2), and the Parents from CEPH Family 884 (DNA Standard Kit 3). The DNAs of unrelated individuals from three different races may be used for the discovery of polymorphisms and for the determination of allele sizes, frequency, and heterozygosity. The two unrelated individual kits are the Caucasian PCRable DNA Kit and the Mixed Race PCRable DNA Kit. The Caucasian Kit contains genomic DNA from 10 unrelated individuals of Western European ancestry and the Mixed Race Kit contains genomic DNA from 4 unrelated Caucasians, 4 unrelated Afro-Americans, and 4 unrelated Orientals. BIOS Laboratories offers additional products and services for genome analysis to the pharmaceutical industry, to government institutions, and to academia.

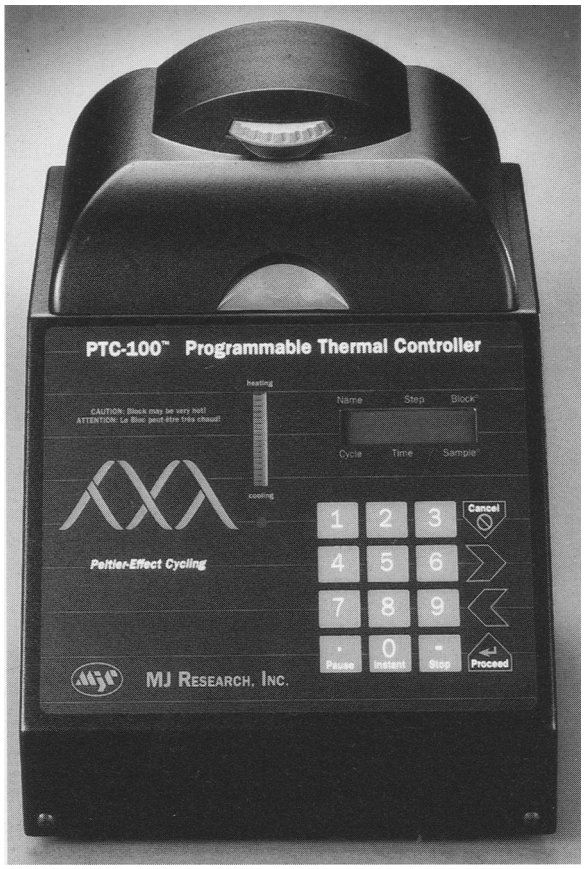
For additional information on Human Genomic DNAs for Polymorphism Analysis or any other BIOS product or service, please contact BIOS Laboratories, Inc. at our website http://www.bioslabs.com, call (800) 678-9487 or fax (203) 562-9377. Reader service number 255.

HyperHyb

HyperHyb, from Research Genetics, Inc., is a unique formulation allowing hybridizations to be completed in as little as 1–2 hr with excellent sensitivity. HyperHyb is a solution provided at 1× concentration and is optimized for use with our high-density BAC and cDNA membranes as well as other hybridization applications. Simply prehybridize your membranes in HyperHyb, then add your labeled probe and hybridize for 1-4 hours. Each lot is verified for performance by hybridizing to our BAC high-density membranes.

For additional information, call Research Genetics, Inc. in the U.S. or Canada (800) 533-4363, U.K. 0-800-89-1393, or Worldwide (205) 533-4363, or fax (205) 536-9016. For access via the internet, http://www.resgen.com. Reader service number 256.

Improved Hot Bonnet™ Heated Lid for PTC-100 Thermal Cyclers



MJ Research now offers a flexible new disgn of Hot Bonnet heated lid for its PTC-100 line of thermal cyclers. This new lid is based upon the extremely successful design introduced with the DNA Engine™ line of cyclers, and it incorporates a thumbwheel that adjusts the height and the pressure that the lid applies to vessels. This feature allows a wide variety of vessel types to be used, it improves the seating of vessels, and it prevents the "popping" of caps during high temperature operation. Lids are available new or as factory retrofits.

For additional information, contact MJ Research, Inc. at our website http://www.mjr.com, call within the U.S. (800) 729-2165, or fax (617) 923-8080. Reader service number 254.

Novel PCR-based Method for Making cDNA Libraries from Nanograms of Total RNA

The new CapFinder™ PCR cDNA Library Construction Kit (K1051-1) from Clontech Laboratories, Inc. allows researchers to construct representative cDNA libraries highly enriched for full-length clones from only 50 ng of total RNA. This novel technology uses long-distance PCR and the unique CapSwitch™ oligonucleotide (patent pending) to generate high yields of full-length, double-stranded cDNA from which libraries can be constucted. Now researchers can create cDNA libraries from very small samples such as flow-sorted cells, tissue sections, embryonic cell samples, and biopsies.

For additional information, call Clontech Laboratories, Inc. at (800) 662-CLON or (415) 424-8222 or fax (800) 424-1350 or (415) 424-1064. For access via the internet, e-mail tech@clontech.com. Reader service number 257.

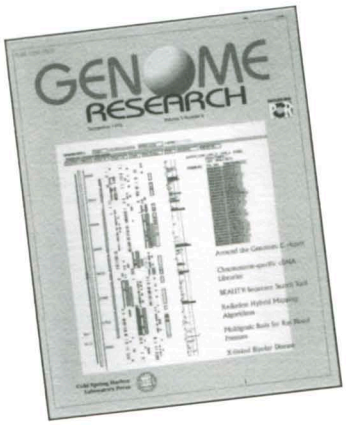
DNA Extraction Kit for Stool, Blood, and Other Matrices

XTRAX from Fresenius AG is especially developed for genomic DNA-extraction of stool samples, but has also proven efficacious for use with other samples (e.g., blood, bacterial cells, tissue culture cells.) The kit involves three major steps:

1. Cells are lysed by DNA extraction buffer.
2. DNA is released and proteins denatured upon microwave treatment of sample. Proteins are removed by centrifugation.
3. DNA is precipitated by isopropanol, washed, and resuspended.

XTRAX is exclusively developed for PCR. XTRAX is fast (<5 min/sample), easy, and less expensive.

For additional information, contact Fresenius AG, Business Unit Diagnostics, D-61343 Bad Homburg, Germany, or call (49)6171 60-2402 or fax (49)6171 60-2317. Reader service number 258.



ORDER FORM

For fastest service, call:

1-800-843-4388
Continental U.S.
and Canada

516-349-1930
All other locations

FAX: 516-349-1946

E-MAIL:
cshpress@cshl.org
world wide web site
http://www.cshl.org/

Cold Spring Harbor Laboratory Press
Plainview, NY 11803-2500

GENOME RESEARCH

ISSN 1054-9803

VOLUME 6, 1996, MONTHLY (containing 12 issues)

- ❑ Individual price (U.S.) - $95
- ❑ Individual price (R.O.W.* Airlift Delivery) - $145
- ❑ Student price (U.S.) - $71.25
- ❑ Student price (R.O.W.* Airlift Delivery) - $121.25
- ❑ Institutional price (U.S.) - $495
- ❑ Institutional price (R.O.W.* Airlift Delivery) - $545
- ❑ Please send me a sample issue

*R.O.W. = Rest of world

Personal orders must be prepaid by personal check, credit card or money order.

❑ Check or money order enclosed (U.S. Bank Checks Only)

Charge to: ❑ MASTERCARD ❑ VISA ❑ AMERICAN EXPRESS ❑ DISCOVER

ACCOUNT NO._____EXP._____

SIGNATURE_____TEL._____

NAME_____FAX_____

ADDRESS_____

_____

CITY/STATE/ZIP/COUNTRY _____

Please check title(s) that most closely describe(s) your position:
(Please check one)
____(1) Professor
____(2) Graduate student
____(3) Postdoctoral scientist
____(4) Lab director
____(5) Lab technician
____(6) Medical student
____(7) Undergraduate student
____(8) Librarian
____(9) Publisher
____(10) Research associate
____(17) Principal investigator
____(19) M.D.
____(29) Purchasing agent/buyer
____(99) Other_____

Please check your employment category:
(Please check one)
____(1) University/college
____(2) Research institute/foundation
____(3) Hospital
____(4) Medical school
____(5) Industry
____(6) Government
____(7) Library/information center

Please check your primary field of interest:
(Please check one)
____(1) Biochemistry
____(2) Cell biology
____(3) Developmental biology
____(4) Epidemiology
____(5) Genetics
____(6) Immunology
____(7) Microbiology
____(8) Molecular biology
____(9) Neurobiology
____(10) Plant biology
____(11) Pharmacology
____(12) Virology
____(13) Oncology
____(33) Protein chemistry
____(34) Veterinary medicine
____(99) Other_____

Please indicate your areas of interest and techniques you use in your research
(Check all that apply)
MOLECULAR BIOLOGY
____(1) Autoradiography
____(2) cDNA synthesis
____(3) Cloning
____(4) DNA footprinting
____(5) DNA purification
____(6) Electroporation
____(7) Eukaryotic expression
____(8) Genomic mapping and screening
____(9) In situ hybridization
____(10) In vitro transcription
____(11) In vitro translation
____(12) Library screening
____(13) Mutagenesis
____(14) Nonisotopic labeling and detection
____(15) Nucleic acid electrophoresis
____(16) Nucleic acid radiolabeling
____(17) Nucleic acid sequencing
____(18) Nucleic acid synthesis
____(19) PCR
____(20) Prokaryotic expression
____(22) Pulsed field electrophoresis
____(23) RNA analysis
____(24) RNA purification
____(25) Software-aided sequence analysis
____(26) Transfections
PROTEIN CHEMISTRY
____(30) Amino acid analysis
____(31) Chromatography
____(32) Affinity
____(33) Gas
____(34) HPLC
____(35) Thin layer
____(36) Electrophoresis of proteins
____(37) Glycoprotein analysis
____(38) Peptide mapping
____(39) Peptide synthesis
____(40) Protein kinase assays
____(42) Protein purification
____(43) Protein sequencing
IMMUNOLOGY
____(50) Antibody labeling
____(51) Antibody purification
____(52) Ascites production
____(53) ELISA
____(54) Flow cytometry
____(55) Hybridoma production
____(56) Immunohistochemistry
____(57) Immunoprecipitation
____(58) RIA
____(59) Western blotting
CELL BIOLOGY
____(70) Apoptosis
____(71) Cell proliferation
____(72) ES cell culture
____(73) Growth factors/cytokine
____(74) Insect cell culture
____(75) Mammalian cell culture
____(76) Microscopy
____(77) Plant cell culture
____(78) Receptor studies
____(79) Serum-free cell culture

TEL: Continental U.S. and Canada: 1-800-843-4388
All other locations: 516-349-1930 FAX: 516-349-1946

All prices subject to change without notice.

Orders for Japan: Maruzen Company Ltd., 3 - 10, Nihonbashi 2-Chome, Chuo-ku, Tokyo 103, Japan. **Orders for Taiwan:** Unimed Healthcare, Inc., 3F, No. 74, Song-te Road, Taipei, Taiwan, R.O.C. **Orders for India, Pakistan, Bangladesh, Sri Lanka, and Nepal:** Narosa Book Distributors Private Limited, 6 Community Centre, Panchsheel Park, New Delhi 110 017, India.

GENOME RESEARCH

GENOME RESEARCH

ISSN 1054-9803

VOLUME 6, 1996, MONTHLY (containing 12 issues)

- ❑ Individual price (U.S.) - $95
- ❑ Individual price (R.O.W.* Airlift Delivery) - $145
- ❑ Student price (U.S.) - $71.25
- ❑ Student price (R.O.W.* Airlift Delivery) - $121.25
- ❑ Institutional price (U.S.) - $495
- ❑ Institutional price (R.O.W.* Airlift Delivery) - $545
- ❑ Please send me a sample issue

*R.O.W. = Rest of world

Personal orders must be prepaid by personal check, credit card or money order.

❑ Check or money order enclosed (U.S. Bank Checks Only)

Charge to: ❑ MASTERCARD ❑ VISA ❑ AMERICAN EXPRESS ❑ DISCOVER

ACCOUNT NO._____EXP._____

SIGNATURE_____TEL._____

NAME_____FAX_____

ADDRESS_____

_____

CITY/STATE/ZIP/COUNTRY _____

Please check title(s) that most closely describe(s) your position:
(Please check one)
____(1) Professor
____(2) Graduate student
____(3) Postdoctoral scientist
____(4) Lab director
____(5) Lab technician
____(6) Medical student
____(7) Undergraduate student
____(8) Librarian
____(9) Publisher
____(10) Research associate
____(17) Principal investigator
____(19) M.D.
____(29) Purchasing agent/buyer
____(99) Other_____

Please check your employment category:
(Please check one)
____(1) University/college
____(2) Research institute/foundation
____(3) Hospital
____(4) Medical school
____(5) Industry
____(6) Government
____(7) Library/information center

Please check your primary field of interest:
(Please check one)
____(1) Biochemistry
____(2) Cell biology
____(3) Developmental biology
____(4) Epidemiology
____(5) Genetics
____(6) Immunology
____(7) Microbiology
____(8) Molecular biology
____(9) Neurobiology
____(10) Plant biology
____(11) Pharmacology
____(12) Virology
____(13) Oncology
____(33) Protein chemistry
____(34) Veterinary medicine
____(99) Other_____

Please indicate your areas of interest and techniques you use in your research
(Check all that apply)
MOLECULAR BIOLOGY
____(1) Autoradiography
____(2) cDNA synthesis
____(3) Cloning
____(4) DNA footprinting
____(5) DNA purification
____(6) Electroporation
____(7) Eukaryotic expression
____(8) Genomic mapping and screening
____(9) In situ hybridization
____(10) In vitro transcription
____(11) In vitro translation
____(12) Library screening
____(13) Mutagenesis
____(14) Nonisotopic labeling and detection
____(15) Nucleic acid electrophoresis
____(16) Nucleic acid radiolabeling
____(17) Nucleic acid sequencing
____(18) Nucleic acid synthesis
____(19) PCR
____(20) Prokaryotic expression
____(22) Pulsed field electrophoresis
____(23) RNA analysis
____(24) RNA purification
____(25) Software-aided sequence analysis
____(26) Transfections
PROTEIN CHEMISTRY
____(30) Amino acid analysis
____(31) Chromatography
____(32) Affinity
____(33) Gas
____(34) HPLC
____(35) Thin layer
____(36) Electrophoresis of proteins
____(37) Glycoprotein analysis
____(38) Peptide mapping
____(39) Peptide synthesis
____(40) Protein kinase assays
____(42) Protein purification
____(43) Protein sequencing
IMMUNOLOGY
____(50) Antibody labeling
____(51) Antibody purification
____(52) Ascites production
____(53) ELISA
____(54) Flow cytometry
____(55) Hybridoma production
____(56) Immunohistochemistry
____(57) Immunoprecipitation
____(58) RIA
____(59) Western blotting
CELL BIOLOGY
____(70) Apoptosis
____(71) Cell proliferation
____(72) ES cell culture
____(73) Growth factors/cytokine
____(74) Insect cell culture
____(75) Mammalian cell culture
____(76) Microscopy
____(77) Plant cell culture
____(78) Receptor studies
____(79) Serum-free cell culture

TEL: Continental U.S. and Canada: 1-800-843-4388
All other locations: 516-349-1930 FAX: 516-349-1946

All prices subject to change without notice.

Orders for Japan: Maruzen Company Ltd., 3 - 10, Nihonbashi 2-Chome, Chuo-ku, Tokyo 103, Japan. **Orders for Taiwan:** Unimed Healthcare, Inc., 3F, No. 74, Song-te Road, Taipei, Taiwan, R.O.C. **Orders for India, Pakistan, Bangladesh, Sri Lanka, and Nepal:** Narosa Book Distributors Private Limited, 6 Community Centre, Panchsheel Park, New Delhi 110 017, India.

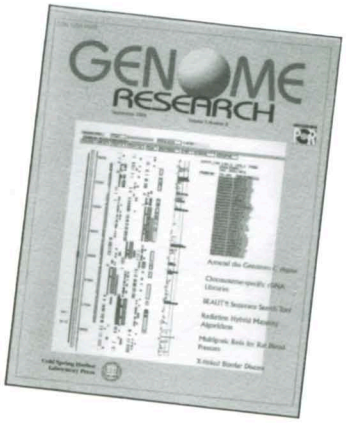
GENOME RESEARCH

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL
FIRST CLASS MAIL PERMIT NO. 150 HICKSVILLE, NY

POSTAGE WILL BE PAID BY ADDRESSEE

Cold Spring Harbor Laboratory Press
10 Skyline Drive
Plainview, NY 11803-2500



For fastest service, call:

1-800-843-4388
Continental U.S.
and Canada

516-349-1930
All other locations

FAX: 516-349-1946

E-MAIL:
cshpress@cshl.org
world wide web site
http://www.cshl.org/

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL
FIRST CLASS MAIL PERMIT NO. 150 HICKSVILLE, NY

POSTAGE WILL BE PAID BY ADDRESSEE

Cold Spring Harbor Laboratory Press
10 Skyline Drive
Plainview, NY 11803-2500

CSHL PRESS

Cold Spring Harbor Laboratory Press
Plainview, NY 11803-2500

COLD SPRING HARBOR

LABORATORY PRESS

READER SERVICE CARD

Please print clearly:

NAME

POSITION TEL.

ORGANIZATION

ADDRESS

CITY STATE ZIP CODE

POSTAL CODE COUNTRY

Are you a subscriber?
YES ☐ NO ☐
Is this a pass-along copy?
YES ☐ NO ☐

For further information WRITE assigned key numbers in boxes below

Offer valid for 6 mos. from issue date.

For further information about advertisements and new products, write the number(s) corresponding to the number at the base of the item(s) of interest. Enter the issue date, your name and address, and return this card.

Issue date: Month 1996

GENOME RESEARCH

Please check title(s) that most closely describe(s) your position:

____(1) Professor
____(2) Graduate student
____(3) Postdoctoral scientist
____(4) Lab director
____(5) Lab technician
____(6) Medical student
____(7) Undergraduate student
____(8) Librarian
____(9) Publisher

Please check your employment category:

____(1) University/college
____(2) Research institute/foundation
____(3) Hospital
____(4) Medical school
____(5) Industry
____(6) Government
____(7) Library/information center

Please check your primary field of interest:

____(1) Biochemistry
____(2) Cell biology
____(3) Developmental biology
____(4) Epidemiology
____(5) Genetics
____(6) Immunology
____(7) Microbiology
____(8) Molecular biology
____(9) Neurobiology
____(10) Plant biology
____(11) Pharmacology
____(12) Virology
____(13) Oncology
____(14) Other_____

READER SERVICE CARD

Please print clearly:

NAME

POSITION TEL.

ORGANIZATION

ADDRESS

CITY STATE ZIP CODE

POSTAL CODE COUNTRY

Are you a subscriber?
YES ☐ NO ☐
Is this a pass-along copy?
YES ☐ NO ☐

For further information WRITE assigned key numbers in boxes below

Offer valid for 6 mos. from issue date.

For further information about advertisements and new products, write the number(s) corresponding to the number at the base of the item(s) of interest. Enter the issue date, your name and address, and return this card.

Issue date: Month 1996

GENOME RESEARCH

Please check title(s) that most closely describe(s) your position:

____(1) Professor
____(2) Graduate student
____(3) Postdoctoral scientist
____(4) Lab director
____(5) Lab technician
____(6) Medical student
____(7) Undergraduate student
____(8) Librarian
____(9) Publisher

Please check your employment category:

____(1) University/college
____(2) Research institute/foundation
____(3) Hospital
____(4) Medical school
____(5) Industry
____(6) Government
____(7) Library/information center

Please check your primary field of interest:

____(1) Biochemistry
____(2) Cell biology
____(3) Developmental biology
____(4) Epidemiology
____(5) Genetics
____(6) Immunology
____(7) Microbiology
____(8) Molecular biology
____(9) Neurobiology
____(10) Plant biology
____(11) Pharmacology
____(12) Virology
____(13) Oncology
____(14) Other_____

READER SERVICE CARD

Please print clearly:

NAME

POSITION TEL.

ORGANIZATION

ADDRESS

CITY STATE ZIP CODE

POSTAL CODE COUNTRY

Are you a subscriber?
YES ☐ NO ☐
Is this a pass-along copy?
YES ☐ NO ☐

For further information WRITE assigned key numbers in boxes below

Offer valid for 6 mos. from issue date.

For further information about advertisements and new products, write the number(s) corresponding to the number at the base of the item(s) of interest. Enter the issue date, your name and address, and return this card.

Issue date: Month 1996

GENOME RESEARCH

Please check title(s) that most closely describe(s) your position:

____(1) Professor
____(2) Graduate student
____(3) Postdoctoral scientist
____(4) Lab director
____(5) Lab technician
____(6) Medical student
____(7) Undergraduate student
____(8) Librarian
____(9) Publisher

Please check your employment category:

____(1) University/college
____(2) Research institute/foundation
____(3) Hospital
____(4) Medical school
____(5) Industry
____(6) Government
____(7) Library/information center

Please check your primary field of interest:

____(1) Biochemistry
____(2) Cell biology
____(3) Developmental biology
____(4) Epidemiology
____(5) Genetics
____(6) Immunology
____(7) Microbiology
____(8) Molecular biology
____(9) Neurobiology
____(10) Plant biology
____(11) Pharmacology
____(12) Virology
____(13) Oncology
____(14) Other_____

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL
FIRST CLASS PERMIT #5 COLD SPRING HARBOR, N.Y.

POSTAGE WILL BE PAID BY ADDRESSEE

Advertising Manager
Library Building
COLD SPRING HARBOR LABORATORY PRESS
PO Box 100
Cold Spring Harbor, NY 11724-2300

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL
FIRST CLASS PERMIT #5 COLD SPRING HARBOR, N.Y.

POSTAGE WILL BE PAID BY ADDRESSEE

Advertising Manager
Library Building
COLD SPRING HARBOR LABORATORY PRESS
PO Box 100
Cold Spring Harbor, NY 11724-2300

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL
FIRST CLASS PERMIT #5 COLD SPRING HARBOR, N.Y.

POSTAGE WILL BE PAID BY ADDRESSEE

Advertising Manager
Library Building
COLD SPRING HARBOR LABORATORY PRESS
PO Box 100
Cold Spring Harbor, NY 11724-2300

GENOME RESEARCH

COLD SPRING HARBOR

CSHL PRESS

LABORATORY PRESS