// Protein Data Bank
Quarterly Newsletter
Number 65 October 1993

Protein Data Bank

Quarterly Newsletter

Number 65 *October 1993*

October PDB Release Includes 523 New Full-Release Entries

We are pleased to announce that the October 1993 PDB release includes 523 new full-release entries. In addition, all prerelease entries have now been converted to full-release form. The PDB staff has processed a total of over 1,000 entries this summer, including 230 newly-deposited entries that were processed directly into full release. *Full-release versions of the 322 structures still in prerelease form on the October CD ROM and magnetic tape release are now in the final checking stages.* Some of these entries have recently been approved for release. Others are still waiting for release approval. We expect that shortly all will be ready and loaded on the PDB FTP server.

A significant amount of new software has been installed recently by PDB to assist with data processing and checking. For example, the program PDBINFO written by David Hinds from Michael Levitt's laboratory at Stanford University Medical Center is now being used extensively to check PDB entries for syntax violations. Additional software was implemented to automate a variety of processing tasks and to improve our quality control, ensuring stricter adherence to PDB's published specifications. We will shortly be using this software to assist in checking for errors in older entries included in prior PDB releases.

The number of entries processed for the October release reflects a large increase compared to previous PDB releases, which added at most 50 - 100 new structures to the database. Significant gains in data processing productivity have been achieved, enabling PDB to respond to the challenge posed by the exponentially growing number of structure submissions. The successful completion of the work done this summer has been possible only through the outstanding dedication and commitment of the PDB staff as well as with the assistance of our depositors who have been extremely helpful in resolving outstanding questions about their entries.

In our continuing effort to improve the process of entering new structures into the PDB, we are actively soliciting software from the user community. If you have data preparation or checking programs that you are willing to share, please contact PDB directly at the address given on the last page of this Newsletter.

October 1993 PDB Release

1727	full-release atomic coordinate entries (523 new additions)
1564	proteins, enzymes and viruses
137	DNA's
7	RNA's
9	tRNA's
10	carbohydrates
322	prerelease atomic coordinate entries
345	structure factor entries
31	NMR experimental entries

The total size of the atomic coordinate entry database is 547 Mbytes, uncompressed.

Table of Contents

PDB Management

Tom Koetzle has recently resigned as Head of PDB, after announcing his intention to do so earlier this year. Tom remains at Brookhaven as an active member of the Chemistry Department and has graciously agreed to act as a consultant for the new PDB management. We all appreciate Tom's dedication to making PDB the resource that it is today and wish him well in his research endeavors.

Since a permanent replacement for Tom has not yet been found, Brookhaven's management has asked me to serve as Acting PDB Senior Project Manager. My background is in the field of computing, having been a member of the Computing and Communications Division (CCD) at Brookhaven for nineteen years before joining PDB six months ago. At CCD, I was involved in the design and implementation of the Laboratory-wide network which consists of over 2000 nodes. More recently at PDB, I have been involved in building CIF tools and providing better access to the database.

I look forward to working with all of you and the PDB staff in actively guiding PDB toward the incorporation of CIF, automated deposition, and new methods of data access to the PDB. I intend to provide the permanent project manager with a vibrant and forward-looking organization.

Please let me know if I can do anything to assist you in your use of the PDB or if you have any ideas that would make this service more valuable. You can reach me via e-mail at stampf@bnl.gov or by telephone through our main number at 516-282-3629.

— Dave Stampf

Staff News

We are pleased to announce the appointment of Dejun Xue, Minette Cummings, and Michael Libeson to the PDB staff. Dejun joins the software development team and is currently involved in efforts to convert PDB into the macromolecular CIF format. Minette and Michael join the database production staff where their responsibilities include assisting in the preparation of newly deposited entries for distribution.

This summer, a number of temporary staff members assisted PDB in the work of converting prerelease entries into full-release form. In particular, we wish to acknowledge the contributions of Laura Hildebrand, Racquel Ponce and Barbara Roland toward the successful completion of this project. We also wish to acknowledge significant contributions by our summer students, Mingyu Xu of the University of Southern Maine and Eugene Koh of Harvard University. Mingyu assisted in the preparation of newly deposited entries and Eugene wrote the PC-Windows database application program PDB-Shell.

Joe Christian, who joined PDB in 1990 as a summer student and later became a member of the database production group, has left Brookhaven to pursue his career goals in the music field. Joe's primary responsibility was to accept newly deposited entries. He also wrote a number of programs that helped automate PDB data processing. We wish Joe success in his new endeavor.

Attention Windows Users --- PDB-Shell

PDB is pleased to announce a new facility for Windows users to access and display structures from the PDB. This new facility is called PDB-Shell and is available on the October 1993 CD-ROM and on the PDB anonymous FTP server. PDB-Shell allows the user to search the database for various criteria such as ident code, accession date, compound name, and author. These criteria can be combined to further restrict or expand search results. A list of all search results is displayed. A short description of each structure is easily obtained, and a facility is provided to display the entire ASCII text of each coordinate entry file. Additionally, each structure can be viewed using RasMol graphics software which is integrated into PDB-Shell. Features supported by RasMol, which was written by Roger Sayle at the University of Edinburgh, Scotland, include the ability to rotate a structure, color individual atoms for ready identification, and represent a structure as balls and sticks or in spacefill fashion. The default access is from the CD-ROM, but PDB-Shell can easily be configured to allow access from a hard disk, or network mounted file system.

CD-ROM Information

PDB releases are available on CD-ROM in *ISO 9660* format. The layout of files on the CD-ROM mirrors the UNIX tape distribution and uses the tape01, tape02, ..., tapeN subdirectories. The entry files are ASCII format and are readable by software able to read text files.

PDB-Shell, a new facility for Windows users to access and display structures from the PDB database, is now available on our CD-ROM. As was described in the preceding article, PDB-Shell allows the user to search the database for various criteria such as ident code, accession date, compound name, and author.

The PDB CD-ROM also includes the MAGE and PREKIN structure display and manipulation software by David Richardson and Jane Richardson of Duke University [The Kinemage: A Tool for Scientific Communication. *Protein Science* **1**, 3-9 (1992)] in both PC and Macintosh versions.

VAX/VMS systems currently do not directly support access to *ISO 9660* CD-ROMs. The PDB CD-ROM may be accessed on VAX/VMS systems using either of the following approaches:

1. There is an *ISO 9660* compliant device driver available from Digital Equipment Corporation (DEC) that allows direct access to the CD-ROM (driver part number YT-GS001-01). Please contact your DEC sales representative for further information.

2. There is a public utility for accessing *ISO 9660* CD-ROMs, called CD_ACCESS, written by Peter Stockwell, University of Otago, New Zealand, that will allow all the files on the CD-ROM to be copied to a magnetic disk drive. This utility can be obtained from the EMBL e-mail server (for further information you may contact DataLib@EMBL-Heidelberg.DE). When copying files using CD_ACCESS, be sure to use the /BINARY qualifier to the copy command.

The CD-ROM does not mount properly on Silicon Graphics systems running IRIX version 4.0.1. To resolve this problem, you need to upgrade to version 4.0.2 or higher.

Because of limitations on symbolic links with *ISO 9660* CD-ROMs, we were unable to provide a directory on the CD-ROMs pointing to all files in the various "tape" subdirectories. Therefore, we recommend that you do so from a directory on one of your local disk filesystems. Further detailed instructions are included in an enclosure sent with each CD-ROM order.

Procheck Software Package

We are pleased to announce that the Procheck software package is being made available for electronic distribution from PDB. Oxford Molecular, Ltd. and PDB have agreed that upon receipt of a signed license agreement at PDB, the source and documentation for Procheck will be made available free of charge. The Procheck software package, created by J. M. Thornton, M. W. MacArthur, R. A. Laskowski and D. S. Moss, performs evaluations of the stereochemical quality of protein structures.

In order to acquire a copy of Procheck, you must obtain the license agreement, copies of which are available via the PDB FTP, gopher, or file server in the file called procheck-license. You must complete and sign this license agreement and return it to PDB (Protein Data Bank Procheck License, Chemistry Department--Bldg. 555, Brookhaven National Laboratory, P.O. Box 5000, Upton, NY 11973-5000 USA). Once we have your signed agreement, we will either e-mail the source to you or place it on the machine of your choice via FTP. Your signed license agreement will be forwarded to Oxford Molecular who will keep you up to date about further developments. All queries concerning the software should be directed to Steve Gardner, Macromolecular Product Manager, Oxford Molecular, Ltd., The Magdalen Centre, Oxford Science Park, Sanford-on-Thames, Oxford, England OX4 4GA (Telephone: +44-865-784600).

CIF Advances

In April representatives from PDB traveled to York, England to participate in a CIF workshop sponsored by a joint EC/USA initiative. Eleanor Dodson of the University of York hosted the workshop. At the York workshop, the participants helped to reformulate the CIF macromolecular dictionary in order to allow a more database-like access to the information.

In October a second meeting sponsored by the NSF and hosted by Phil Bourne was held in Tarrytown, New York where many of the same participants showed the advances made in software and in the design of the dictionary. Since then, PDB is taking an active role in shaping the conversion of our database from the traditional PDB format to a more modern CIF representation. We anticipate rolling out many software tools over the next six to nine months to help our users cope with this change. It is our intention to completely hide any of the CIF internals from the PDB user.

ACA Meeting

It was great to see all of our users and depositors who visited the PDB's exhibit at the American Crystallographic Association (ACA) Annual Meeting held in Albuquerque, New Mexico from May 23 through May 28. Many also attended a session at the meeting on "Macromolecular Databases" that was chaired by Keith Watenpaugh, current Chairman of PDB's Advisory Board.

At Albuquerque, PDB presented the first public demonstration of its new MAKEPDB data input procedure. MAKEPDB allows depositors to check their own entries before submitting them using PDB's structure evaluation procedures and Janet Thornton et al.'s PROCHECK package. The response to MAKEPDB at Albuquerque was very enthusiastic, and we want to encourage depositors to try this new procedure and help us by giving suggestions for its improvement. Check the PDB e-mail server and FTP site for further information.

IUCr Beijing Congress

About 1,800 crystallographers from around the world gathered in Beijing in late August for the XVI Congress and General Assembly of the International Union of Crystallography (IUCr). PDB was represented at the Congress by Tom Koetzle and John Rose. With the help of the Beijing Local and Program Committees, a very successful workshop on the PDB was staged at which John Rose gave demonstrations of PDB procedures on a Silicon Graphics workstation loaned to us by Peking University. Tom Koetzle also gave a talk on the status and future of PDB at the Crystallographic Databases microsymposium. The Congress provided an opportunity to speak with many individuals interested in the PDB, including quite a number who had no previous direct contact with the database. More than fifty complementary PDB CD-ROM's were distributed during the meeting. The Congress was an overwhelming success, highlighted by a rich and varied scientific program. We will not forget the warm hospitality extended to us by our Chinese hosts!

Deposition Form and Guidelines for Deposition

A set of guidelines helpful to use when preparing an entry for submission to PDB is available *via* the PDB FTP server. These guidelines address issues of representation that often arise in the preparation of coordinates for distribution. For example, the document includes an explanation of how PDB represents entries with multiple chains. Also included is advice on how to avoid errors commonly found in new depositions. Submitted entries that follow these guidelines take less time to process, expediting the prompt issuance of ident codes.

PDB strongly recommends that depositors review the documented guidelines in order to facilitate the deposition process. In the coming months, PDB plans to revise the deposition form. Therefore, it is important that a new copy be retrieved from the PDB FTP before each deposition. Documents are available *via* anonymous FTP and gopher from pdb.pdb.bnl.gov, *via* our file server, and in printed form upon request.

Distribution of Obsolete Entries

Over the years a number of PDB entries have been withdrawn by the depositors, usually because improved data was available or, less frequently, because a serious problem was discovered with the data. Entries that were withdrawn before their public release will *not* be distributed by PDB except by the express permission of the depositor. Entries that were withdrawn following their release exist on old PDB distribution tapes and are stored in numerous laboratories that have received these data from Brookhaven. In the near future, we plan to make these obsolete data available to all those who may wish to make use of them. We anticipate that the obsolete entries will be of interest to individuals studying new approaches to solving or refining structures and needing 'problem' cases with which to evaluate their methods, and to those interested in the evolution of the PDB database over time. Watch the PDB e-mail file server and FTP site for announcements on how to access the obsolete entries. All obsolete entries will be prominently flagged to distinguish them from current PDB entries. Any publication that may result from the use of obsolete entries should include an explicit statement that the entries in question have been withdrawn and/or replaced.

1600 cpi Tapes Discontinued

Due to the fact that there is very little demand for distribution of data on 1600 cpi reel tapes, PDB has decided to discontinue their distribution as of October 1, 1993. We encourage those who may have ordered 1600 cpi tapes in the past to switch to one of the alternative tape formats, all of which have much higher capacity, are more economical, and are much less time-consuming to load.

Internet Access to PDB

Access by Gopher

PDB is accessible using Gopher software which follows a simple protocol to "tunnel" through a TCP/IP Internet. Gopher is recommended for obtaining information and files from PDB. The following excerpts are from the PDB's Gopher FAQ (Frequently Asked Questions) listing.

Q: *What is Gopher?*

A: The Internet Gopher client/server provides a distributed information delivery system around which a world/campus-wide information system (CWIS) can readily be constructed. While providing a delivery vehicle for local information, Gopher facilitates access to other Gopher and information servers throughout the world.

Q: *Where can I get Gopher software?*

A: Via anonymous FTP to boombox.micro.umn.edu. Look in the directory /pub/gopher.

Q: *What do I need to access Gopher?*

A: You will need a gopher "client" program that runs on your local PC or workstation. There are clients for the following systems. The directories listed show the location of each client on the anonymous FTP site boombox.micro.umn.edu (134.84.132.2) in the directory/pub/gopher.

Unix Curses & Emacs :	/pub/gopher/Unix/gopher1.12.tar.Z
Xwindows (athena) :	/pubrs/gopher/Unix/xgopher.1.2.tar.Z
Xwindows (Motif) :	/pub/gopher/Unix/moog
Xwindows (Xview) :	/pub/gopher/Unix/xvgopher
Macintosh Hypercard :	/pub/gopher/Macintosh-TurboGopher/old-versions/*
Macintosh Application :	/pub/gopher/Macintosh-TurboGopher/*
DOS w/Clarkson Driver :	/pub/gopher/PC_client/
NeXTstep :	/pub/gopher/NeXT/
VM/CMS :	/pub/gopher/Rice_CMS/ or /pub/gopher/VieGOPHER/
VMS :	/pub/gopher/VMS/
OS/2 2.0 :	/pub/gopher/os2/
MVS/XA :	/pub/gopher/mvs/

Many additional clients and servers have been developed by others.

Gopher allows users easy access to various types of data residing on multiple hosts. The user is the "client" who makes queries to a "server" residing on another host on the Internet network. This system has been set up so that users do not need to know the location of servers, since Gopher transparently handles the connections. The PDB Gopher server allows access, search, and downloading of the same information and coordinate files as does anonymous FTP, but through a windowed or menu environment. Merely choose "Protein Data Bank FTP Site" after opening Gopher. "Full-text search of PDB" allows one to search the PDB using either an ident code, author name, compound name, or any other term.

Information for setting up an Internet Gopher client including source files for different machines is available via anonymous FTP to boombox.micro.umn.edu (134.84.132.2) under the directory /pub/gopher. Users running a Gopher client can access the PDB server by including the following link:

```
Name  =  Protein Data Bank FTP site
Type  =  1
Host  =  pdb.pdb.bnl.gov
Port  =  70
Path  =  1/
```

For more information or help in accessing the PDB via Gopher, send e-mail to oeder@bnl.gov.

Access by File Server

The PDB e-mail file server is available for all users. In addition to the atomic coordinate entry files, PDB general information and documentation may be requested *via* e-mail. For more information on the e-mail file server, send an e-mail message to: fileserv@pb1.pdb.bnl.gov (with no subject line). Be sure to include the following text: send info name@machine_name.

Access by Anonymous FTP

PDB has an anonymous FTP account on the computer system **pdb.pdb.bnl.gov** (Internet address **130.199.144.1**). Files may be transferred to and from this system using **anonymous** as the FTP user name and your e-mail address as the password. Besides downloading entries, data files, and documentation, it is possible to upload any files that you may wish to send to PDB. Please note that those using VMS may need to place quotes around file names.

How to Login Using FTP

To use the FTP command to transfer files to and from PDB, you must first login to PDB using FTP. The following example shows how to use FTP to connect to the computer system pdb.pdb.bnl.gov. Start the program by typing:

```
ftp pdb.pdb.bnl.gov
```

The screen display will be similar to this:

```
Connected to pdb.pdb.bnl.gov.
220-
220 pdb.pdb.bnl.gov FTP server ready.
```

If the user name prompt comes up, type anonymous as the user name for the prompt that appears. The user name anonymous must be used:

```
Name (pdb:your_name): anonymous
```

If the user name prompt does not come up automatically, type:

```
user
```

and it will come up. Appearing next will be the password prompt. Type your e-mail address (name@machine_name):

```
331 Guest login ok, type your name as password.
Password:joe_doe@foobar.crash.edu
```

You are logged in when the screen displays:

```
230 Guest login ok, access restrictions apply.
```

and prints the login README file to your screen.

File Transfers Using FTP

Once you are logged on PDB using FTP, you can transfer files to and from your system using the put and get commands.

This example shows how to transfer a file named jan93newsletter.txt to your machine. Type the following at the FTP prompt after you login using FTP:

```
ftp> ls -l
200 PORT command successful.
150 Opening ASCII mode data connection for '/bin/ls'.
total 602
-rw-r--r-- 1 root 3019   Mar 9  ADVISORY.NOTICE
-rw-r--r-- 1 root 1805   Mar 9  README
drwxr-xr-x 2 root 512    Feb 24 asn_1
drwxr-xr-x 2 root 512    Feb 24 bin
drwxr-xr-x 2 root 512    Mar 17 crystallographer_info
drwxr-xr-x 2 root 512    Feb 24 dihdrl
drwxr-xr-x 2 root 512    Feb 24 etc
drwxr-xr-x 4 root 512    Mar 5  fullrelease
drwxr-xr-x 2 root 512    Feb 24 hassp
drwxr-xr-x 2 root 512    Mar 8  index
-rw-r--r-- 1 root 281791 Apr 2  ls-lR
drwx-wx-wx 2 root 3584   Apr 9  new_uploads
drwxr-xr-x 2 root 1024   Mar 10 newsletter
drwxr-xr-x 4 root 10240  Mar 25 prerelease
drwxr-xr-x 6 root 1024   Mar 5  program_tape
drwxr-xr-x 2 root 512    Mar 29 pub
drwxr-xr-x 3 root 512    Mar 5  structure_factors
226 Transfer complete.
remote: -l
1111 bytes received in 0.16 seconds (6.6 Kbytes/s)
ftp> cd newsletter
250 CWD command successful.
ftp> ls -l
200 PORT command successful.
150 Opening ASCII mode data connection for '/bin/ls'.
total 1082
l--------- 1 root 18     Mar 5  ADVISORY.NOTICE
-rw-r--r-- 1 root 8549   Mar 16 README
-rw-r--r-- 1 root 1072   Jan 25 jan93avail_on_tape.txt
-rw-r--r-- 1 root 4408   Jan 25 jan93biblio.txt
-rw-r--r-- 1 root 2042   Jan 25 jan93corrections.txt
```

```
-rw-r--r-- 1 root 67979  Jan 25 jan93entries.txt
-rw-r--r-- 1 root 176090 Mar 5  jan93fulltables.txt
-rw-r--r-- 1 root 163990 Mar 10 jan93newsletter.ps
-rw-r--r-- 1 root 27096  Mar 29 jan93newsletter.txt
-rw-r--r-- 1 root 1850   Jan 25 jan93nmr.txt
-rw-r--r-- 1 root 5946   Jan 25 jan93onhold.txt
-rw-r--r-- 1 root 70478  Jan 25 jan93pending.txt
-rw-r--r-- 1 root 2205   Jan 25 jan93prog_misc.txt
-rw-r--r-- 1 root 19449  Jan 25 jan93struct_fact.txt
226 Transfer complete.
remote: -l
1049 bytes received in 0.12 seconds (8.7 Kbytes/s)
ftp> get jan93newsletter.txt
200 PORT command successful.
150 Opening ASCII mode data connection for
'jan93newsletter.txt'
(27096 bytes).226 Transfer complete.
local: jan93newsletter.txt remote: jan93newsletter.txt
27787 bytes received in 0.16 seconds (1.7e+02 Kbytes/s)
```

This copies the file named jan93newsletter.txt from PDB to your computer. To copy a file from your system to PDB, login using FTP and type:

```
ftp> cd new_uploads
250 CWD command successful.
ftp> put dataFROMjoedoe
200 PORT command successful.
150 Opening ASCII mode data connection for
'dataFROMjoedoe'.
226 Transfer complete.
local: dataFROMjoedoe remote: dataFROMjoedoe
554 bytes sent in 0.0078 seconds (69 Kbytes/s)
```

This copies the file named dataFROMjoedoe from your system to the PDB file upload directory. Be sure to include information in the header of the file stating what it is and who you are. The FTP program has many options. See the manual page for FTP ("man ftp") for further details.

Depositing Data with PDB

PDB accepts depositions of atomic coordinates, bibliographic citations, primary sequence and secondary structure information, as well as crystallographic structure factors, and NMR experimental data on biological macromolecules. These may include proteins, RNA, DNA, viruses, and carbohydrates. Deposited data are processed with PDB verification and checking programs, converted to a standard format, archived, and distributed worldwide.

A deposition has three essential components which must be received before a submission can be processed: the completed deposition form, relevant reprints and preprints, and the actual data in PDB format. The deposition form can be submitted electronically or on paper. Data must be submitted in machine-readable form *via* anonymous FTP, e-mail, magnetic tape, or disk. A deposition form and more information on depositing entries is available in the FTP directory ***/pub*** and *via* the PDB e-mail file server. You can also request these items by phone, fax, or surface mail.

Obtaining A New Entry's Ident Code

The ident code of a new entry will be issued only after the complete deposition is received and initial screening verifies the correctness and integrity of the entry. After processing is complete, a letter providing the ident code and requesting approval for release is sent to the depositor.

To facilitate assignment of an ident code, it is necessary that the deposition include all applicable information, including any preprints or reprints of journal articles referenced. Data must be in PDB format, and the deposition form must be legible and complete. Many depositors have found that by submitting their entry to PDB at the same time that they submit their paper to a scientific journal, publication delays can be avoided.

In the future, PDB will be implementing procedures giving depositors direct access to PDB processing and checking programs *via* Internet. Depositors using these new procedures can expect to receive confirmation of their deposition along with the entry ident code within three days of submission. When the new procedures are implemented, further instructions will be available *via* anonymous FTP and in future numbers of this Newsletter.

Finding An Existing Entry's Ident Code

Each PDB entry is uniquely identified by an ident code. Therefore, retrieving the file for a particular structure requires this ident code. Lists of newly received entries are published quarterly in the PDB Newsletter. Tables of all PDB entries can be obtained *via* anonymous FTP and e-mail server or by normal mail upon request.

Within the anonymous FTP account are two subdirectories which are useful for locating ident codes. The first is ***/index***. This contains the following files generated from the latest release:

author.lst	ident codes and authors
compound.lst	ident codes, resolutions, and compound names
crystal.lst	ident codes, unit cell dimensions, space groups, and Z's
resolu.lst	ident codes and resolutions
source.lst	ident codes and sources

The second useful subdirectory is ***/newsletter.*** This contains text (.txt) and PostScript (.ps) files of the full tables listing all currently available entries and pending entries that are in preparation for future release. Retrieving files from these two subdirectories, as well as the directory listings which are in files named 'ls-lR', allows you to determine whether the molecule of interest is available, what its ident code is, and where it is located.

Please be aware that files can be downloaded while in FTP, but they cannot be viewed on the terminal while within this program. Therefore, it is sometimes helpful to download tables or directory listings, quit FTP, determine which additional files you want to retrieve, then reconnect to the FTP site to get them. If you are logged in from a UNIX computer, after retrieving a file you may view its contents by escaping to the shell with the command '***! cat filename***' or '***! more filename***', where cat and more are UNIX commands.

```
ftp>  get ls-lR   (retrieves the file named ls-lR)
ftp>  !cat ls-lR  (types the local file 'ls-lR')
ftp>  !more ls-lR (types the local file 'ls-lR',
                   one page at a time)
```

The PDB e-mail file server or Gopher are other methods to locate PDB ident codes. Please see detailed information about these services on pages 4-5. Finally, in some cases, journal articles reporting results of structural analyses of biological macromolecules provide the PDB ident code.

Newly Released Entries

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1ARB	ACHROMOBACTER PROTEASE I	Y.KITAGAWA,Y.KATSUBE	4/93
1ARC	ACHROMOBACTER PROTEASE I/TLCK	Y.KITAGAWA,Y.KATSUBE	4/93
1PPL	ACID PROTEINASE/PHOSPHONATE INHIBITOR (STRUCTURE 1)	M.E.FRASER,M.N.G.JAMES	6/92
1PPM	ACID PROTEINASE/PHOSPHONATE INHIBITOR (STRUCTURE 2)	M.E.FRASER,M.N.G.JAMES	6/92
7ACN	ACONITASE/ISOCITRATE	H.LAUBLE,M.C.KENNEDY,H.BEINERT,C.D.STOUT	9/91
1NIS	ACONITASE/NITROCITRATE	H.LAUBLE,M.C.KENNEDY,H.BEINERT,C.D.STOUT	1/93
8ACN	ACONITASE/NITROISOCITRATE	H.LAUBLE,M.C.KENNEDY,H.BEINERT,C.D.STOUT	9/91
1NIT	ACONITASE/SULFATE	H.LAUBLE,M.C.KENNEDY,H.BEINERT,C.D.STOUT	1/93
1ACO	ACONITASE/TRANSACONITATE	C.D.STOUT	1/93
1AEC	ACTINIDIN/E-64	K.I.VARUGHESE	2/92
1ALB	ADIPOCYTE LIPID-BINDING PROTEIN	Z.XU,L.J.BANASZAK	9/92
2OHX	ALCOHOL DEHYDROGENASE(HOLO)/ NADH/DMSO	S.AL-KARADAGHI,E.S.CEDERGREN-ZEPPEZAUER	8/93
1ADS	ALDOSE REDUCTASE/NADPH	D.K.WILSON,F.A.QUIOCHO	7/92
1NEA	ALPHA TOXIN(NMR,8 STRUCTURES)	S.ZINN-JUSTIN,C.ROUMESTAND,B.GILQUIN, F.BONTEMS,A.MENEZ,F.TOMA	9/92
1AAN	AMICYANIN	L.CHEN,R.C.E.DURLEY,L.W.LIM,F.S.MATHEWS	4/92
1BTC	BETA-AMYLASE/ALPHA-CYCLODEXTRIN	B.MIKAMI,E.J.HEHRE,M.SATO,Y.KATSUBE,M.HIROSE, Y.MORITA,J.C.SACCHETTINI	2/93
6TAA	TAKA-AMYLASE	H.J.SWIFT,L.BRADY,Z.S.DEREWENDA,E.J.DODSON, J.P.TURKENBURG,A.J.WILKINSON	8/92
1ALA	ANNEXIN V	D.A.WALLER,M.C.BEWLEY,R.HUBER	1/93
1AAJ	APOAMICYANIN	R.C.E.DURLEY,L.CHEN,L.W.LIM,F.S.MATHEWS	4/92
1HOM	ANTENNAPEDIA PROTEIN(HOMEODOMAIN)(NMR)	Y.-Q.QIAN,M.BILLETER,G.OTTING,M.MULLER, W.J.GEHRING,K.WUTHRICH	10/91
2HOA	ANTENNAPEDIA PROTEIN(HOMEODOMAIN) MUTANT(C39S)(NMR)	P.GUNTERT,Y.-Q.QIAN,G.OTTING,M.MULLER, W.J.GEHRING,K.WUTHRICH	4/92
1AHD	ANTENNAPEDIA PROTEIN(HOMEODOMAIN) MUTANT(C39S)/DNA(NMR,16 STRUCTURES)	M.BILLETER,Y.Q.QIAN,G.OTTING,M.MULLER, W.J.GEHRING,K.WUTHRICH	4/93
1ABF	L-ARABINOSE-BINDING PROTEIN/D-FUCOSE	D.K.WILSON,F.A.QUIOCHO	4/92
1ABE	L-ARABINOSE-BINDING PROTEIN/L-ARABINOSE	N.K.VYAS,F.A.QUIOCHO	4/92
1AOZ	ASCORBATE OXIDASE(ZUCCHINI)	A.MESSERSCHMIDT,R.LADENSTEIN,R.HUBER	1/92
3ECA	L-ASPARAGINASE(TYPE II)	A.L.SWAIN,M.JASKOLSKI,D.HOUSSET,J.K.M.RAO, A.WLODAWER	7/93
1AAM	ASPARTATE AMINOTRANSFERASE	S.C.ALMO,D.L.SMITH,A.T.DANISHEFSKY,D.RINGE	7/93
1AAW	ASPARTATE AMINOTRANSFERASE	S.C.ALMO,D.L.SMITH,A.T.DANISHEFSKY,D.RINGE	7/93
1AMA	ASPARTATE AMINOTRANSFERASE/AMA	M.G.VINCENT,J.-C.GENOVESIO-TAVERNE, J.N.JANSONIUS	2/92
1SPA	ASPARTATE AMINOTRANSFERASE MUTANT(D222A)	Y.HINOUE,T.YANO,D.E.METZLER,I.MIYAHARA, K.HIROTSU,H.KAGAMIYAMA	1/93
7AAT	ASPARTATE AMINOTRANSFERASE/PLP(PH 7.5)	C.A.MCPHALEN,M.G.VINCENT,J.N.JANSONIUS	12/91
8AAT	ASPARTATE AMINOTRANSFERASE/PLP(PH 5.1)	C.A.MCPHALEN,M.G.VINCENT,J.N.JANSONIUS	12/91
9AAT	ASPARTATE AMINOTRANSFERASE/PMP(PH 7.5)	C.A.MCPHALEN,M.G.VINCENT,J.N.JANSONIUS	12/91
1ATR	HEAT-SHOCK COGNATE 70 KD PROTEIN (44 KD ATPASE N-TERMINAL FRAGMENT) MUTANT(T204V)	M.C.O'BRIEN,D.B.MCKAY	8/93
1ATS	HEAT-SHOCK COGNATE 70 KD PROTEIN (44 KD ATPASE N-TERMINAL FRAGMENT) MUTANT(T204E)	M.C.O'BRIEN,D.B.MCKAY	8/93
1AZC	AZURIN(APO FORM)	E.N.BAKER,W.E.B.SHEPARD,R.L.KINGSTON	12/92
1AZB	AZURIN(COPPER-REMOVED)	E.N.BAKER,W.E.B.SHEPARD	12/92
2BPA	BACTERIOPHAGE PHIX174 CAPSID PROTEINS GPF,GPG,GPJ AND FOUR NUCLEOTIDES	M.G.ROSSMANN	10/92
1BAN	BARNASE MUTANT(S91A)	Y.W.CHEN,A.R.FERSHT,K.HENRICK	5/93
1BAO	BARNASE MUTANT(Y78F)	Y.W.CHEN,A.R.FERSHT,K.HENRICK	5/93
1BW3	BARWIN(NMR,20 STRUCTURES) (NOE,DIHEDRAL RESTRAINTS)	F.M.POULSEN	7/92
1BW4	BARWIN(NMR,20 STRUCTURES)(NOE,DIHEDRAL, HYDROGEN BOND RESTRAINTS)	F.M.POULSEN	7/92
1BIA	BIOTIN REPRESSOR	K.P.WILSON,L.M.SHEWCHUK,B.W.MATTHEWS	7/92

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1BIB	BIOTIN REPRESSOR/BIOTINYLATED LYSINE	K.P.WILSON,L.M.SHEWCHUK,B.W.MATTHEWS	7/92
1BBA	BOVINE PANCREATIC POLYPEPTIDE (NMR,MEAN STRUCTURE)	X.LI,M.J.SUTCLIFFE,T.W.SCHWARTZ,C.M.DOBSON	3/92
1NBT	BUNGAROTOXIN(NEURONAL) (NMR,12 STRUCTURES)	R.E.OSWALD,M.J.SUTCLIFFE,M.BAMBERGER, R.H.LORING,E.BRASWELL,C.M.DOBSON	10/91
4ICB	CALBINDIN D9K(BOVINE)	L.A.SVENSSON	8/91
2BCA	CALBINDIN D9K MUTANT(P43G) (NMR,MINIMIZED AVERAGE)	J.KORDEL,N.J.SKELTON,M.AKKE,W.J.CHAZIN	8/93
2BCB	CALBINDIN D9K MUTANT(P43G) (NMR,32 STRUCTURES)	J.KORDEL,N.J.SKELTON,M.AKKE,W.J.CHAZIN	8/93
1BOD	CALBINDIN D9K MUTANT(A14DEL,A15D,P20G, N21DEL,P43M)(NMR,24 STRUCTURES)	C.JOHANSSON,M.ULLNER,T.DRAKENBERG	4/93
1BOC	CALBINDIN D9K MUTANT(A15D,P20G, P43M)(NMR,29 STRUCTURES)	C.JOHANSSON,M.ULLNER,T.DRAKENBERG	4/93
1CB1	CALBINDIN D9K(PORCINE)(NMR,14 STRUCTURES)	M.AKKE,T.DRAKENBERG,W.J.CHAZIN	12/91
2SCP	CALCIUM-BINDING PROTEIN(SARCOPLASMIC)	W.J.COOK,S.VIJAY-KUMAR	8/91
1OSA	CALMODULIN	M.SUNDARALINGAM	8/93
1CLL	CALMODULIN(VERTEBRATE RECOMBINANT)	R.CHATTOPADHYAYA,F.A.QUIOCHO	9/92
1CLM	CALMODULIN(WILD TYPE)	M.SUNDARALAINGAM	1/93
1CAU	CANAVALIN JACK BEAN 7S VICILIN P2(1)3	T-P.KO,J.D.NG,J.DAY,A.GREENWOOD,A.MCPHERSON	7/93
1CAV	CANAVALIN JACK BEAN 7S VICILIN(P63)	T-P.KO,J.D.NG,A.MCPHERSON	5/93
1CAW	CANAVALIN JACK BEAN 7S VICILIN(R3)	T-P.KO,J.D.NG,J.DAY,A.GREENWOOD,A.MCPHERSON	6/93
1CAX	CANAVALIN JACK BEAN 7S VICILIN(C2 2 21)	T-P.KO,J.D.NG,J.DAY,A.GREENWOOD,A.MCPHERSON	6/93
1BCD	CARBONIC ANHYDRASE II/TRIFLUOROMETHANE SULPHONAMIDE	K.HAKANSSON,A.LILJAS	8/93
1CAY	CARBONIC ANHYDRASE II/ACETATE	K.HAKANSSON,C.BRIAND,V.ZAITSEV,Y.XUE,A.LILJAS	2/93
2CBE	CARBONIC ANHYDRASE II(APOENZYME)	K.HAKANSSON,M.CARLSSON,L.A.SVENSSON, A.LILJAS	6/92
1RAY	CARBONIC ANHYDRASE II/AZIDE	B.M.JONSSON,K.HAKANSSON,A.LILJAS	4/93
1CAH	CARBONIC ANHYDRASE II/BICARBONATE	K.HAKANSSON,A.WEHNERT	6/92
2CBD	CARBONIC ANHYDRASE II/BISULFITE	K.HAKANSSON,M.CARLSSON,L.A.SVENSSON, A.LILJAS	6/92
1RAZ	CARBONIC ANHYDRASE II/BROMIDE	B.M.JONSSON,K.HAKANSSON,A.LILJAS	4/93
2CBC	CARBONIC ANHYDRASE II/FORMATE	K.HAKANSSON,M.CARLSSON,L.A.SVENSSON, A.LILJAS	6/92
1CAI	CARBONIC ANHYDRASE II MUTANT(E106A)/ SULFATE	Y.XUE,A.LILJAS,B.-H.JONSSON,S.LINDSKOG	9/92
1CAJ	CARBONIC ANHYDRASE II MUTANT(E106D)	Y.XUE,A.LILJAS,B.-H.JONSSON,S.LINDSKOG	9/92
1CAZ	CARBONIC ANHYDRASE II MUTANT(E106Q)/ ACETATE	K.HAKANSSON,C.BRIAND,V.ZAITSEV,Y.XUE,A.LILJAS	2/93
1CAK	CARBONIC ANHYDRASE II MUTANT(E106Q)/ SULFATE	Y.XUE,A.LILJAS,B.-H.JONSSON,S.LINDSKOG	9/92
1HVA	CARBONIC ANHYDRASE II MUTANT(H94C)	R.S.ALEXANDER,D.W.CHRISTIANSON	10/92
1MUA	CARBONIC ANHYDRASE II MUTANT(P202A)	S.K.NAIR,D.W.CHRISTIANSON	6/93
1CAL	CARBONIC ANHYDRASE II MUTANT(T199A)	Y.XUE,A.LILJAS,B.-H.JONSSON,S.LINDSKOG	9/92
1CAM	CARBONIC ANHYDRASE II MUTANT(T199A)/ BICARBONATE	Y.XUE,A.LILJAS,B.-H.JONSSON,S.LINDSKOG	9/92
1BIC	CARBONIC ANHYDRASE II MUTANT(T200H)/ BICARBONATE	Y.XUE,J.VIDGREN,L.A.SVENSSON,A.LILJAS, B.-H.JONSSON,S.LINDSKOG	9/92
1CVA	CARBONIC ANHYDRASE II MUTANT(T199V)	J.A.IPPOLITO,D.W.CHRISTIANSON	2/93
1CVB	CARBONIC ANHYDRASE II MUTANT(T199V) (SULFATE-BOUND FORM)	J.A.IPPOLITO,D.W.CHRISTIANSON	2/93
2CBA	CARBONIC ANHYDRASE II(PH 7.8)	K.HAKANSSON,M.CARLSSON,L.A.SVENSSON, A.LILJAS	6/92
2CBB	CARBONIC ANHYDRASE II(PH 6.0)	K.HAKANSSON,M.CARLSSON,L.A.SVENSSON, A.LILJAS	6/92
1RZA	CARBONIC ANHYDRASE II(ZINC REPLACED WITH COBALT)	K.HAKANSSON,A.WEHNERT,A.LILJAS	5/93
1RZB	CARBONIC ANHYDRASE II(ZINC REPLACED WITH COBALT,PH 6.0)	K.HAKANSSON,A.WEHNERT,A.LILJAS	5/93
1RZC	CARBONIC ANHYDRASE II(ZINC REPLACED WITH COPPER)	K.HAKANSSON,A.WEHNERT,A.LILJAS	5/93

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1RZD	CARBONIC ANHYDRASE II(ZINC REPLACED WITH MANGANESE)	K.HAKANSSON,A.WEHNERT,A.LILJAS	5/93
1RZE	CARBONIC ANHYDRASE II(ZINC REPLACED WITH NICKEL)	K.HAKANSSON,A.WEHNERT,A.LILJAS	5/93
3SC2	CARBOXYPEPTIDASE II(SERINE)	D.-I.LIAO,S.J.REMINGTON	7/92
1CPS	CARBOXYPEPTIDASE A/SULFODIIMINE INHIBITOR	A.M.CAPPALONGA,R.S.ALEXANDER, D.W.CHRISTIANSON	2/92
1PBA	CARBOXYPEPTIDASE B(ACTIVATION DOMAIN) (NMR,19 STRUCTURES)	J.VENDRELL,G.WIDER,M.BILLETER,F.X.AVILES, K.WUTHRICH	11/91
3CD4	CD4(HUMAN,RESIDUES 1-182)	T.P.J.GARRETT,J.WANG,Y.YAN,S.C.HARRISON	7/92
1CHR	CHLOROMUCONATE CYCLOISOMERASE	H.HOIER,M.SCHLOEMANN,A.HAMMER,J.P.GLUSKER, H.L.CARRELL,A.GOLDMAN,J.J.STEZOWSKI, U.HEINEMANN	8/93
3COX	CHOLESTEROL OXIDASE	A.VRIELINK,J.LI,P.BRICK,D.M.BLOW	6/93
1COY	CHOLESTEROL OXIDASE/ DEHYDROISOANDROSTERONE	J.LI,A.VRIELINK,P.BRICK,D.M.BLOW	6/93
1ACB	ALPHA-CHYMOTRYPSIN(BOVINE)/ EGLIN C	M.BOLOGNESI,F.FRIGERIO,A.CODA,L.PUGLIESE, C.LIONETTI,E.MENEGATTI,G.AMICONI,H.P.SCHNEBLI, P.ASCENZI	11/91
1GMC	GAMMA CHYMOTRYPSIN	N.H.YENNAWAR,H.P.YENNAWAR,S.BANERJEE, G.K.FARBER	8/93
1GMD	GAMMA CHYMOTRYPSIN	N.H.YENNAWAR,H.P.YENNAWAR,S.BANERJEE, G.K.FARBER	8/93
3CI2	CHYMOTRYPSIN INHIBITOR 2(BARLEY) (NMR,20 STRUCTURES)	F.M.POULSEN	9/91
1CIS	CHYMOTRYPSIN INHIBITOR 2(HYBRID OF (HORDEUM VULGARE) AND (SUBTILISIN CARLSBERG)PROTEINS)(NMR,15 STRUCTURES)	P.OSMARK,P.SORENSEN,F.M.POULSEN	4/93
1CGI	ALPHA-CHYMOTRYPSINOGEN A/PSTI(VARIANT 3)	H.J.HECHT,M.SZARDENINGS,J.COLLINS, D.SCHOMBURG	10/91
1CGJ	ALPHA-CHYMOTRYPSINOGEN A/PSTI(VARIANT 4)	H.J.HECHT,M.SZARDENINGS,J.COLLINS, D.SCHOMBURG	10/91
2CTX	ALPHA-COBRATOXIN(NAJA NAJA SIAMENSIS)	C.BETZEL,G.LANGE,G.P.PAL,K.S.WILSON, A.MAELICKE,W.SAENGER	9/91
1COS	COILED-SERINE(ALPHA-HELICAL BUNDLE)	B.LOVEJOY,S.CHOE,D.CASCIO,D.K.MCRORIE, W.DEGRADO,D.EISENBERG	1/93
2CTV	CONCANAVALIN A(NATIVE FORM)	S.WEISGERBER,J.R.HELLIWELL	8/93
1CCO	OMEGA-CONOTOXIN GVIA	P.K.PALLAGHY,B.M.DUGGAN,M.W.PENNINGTON, R.S.NORTON	7/93
1CCN	CRAMBIN(PRO 22,LEU 25) (NMR,MINIMIZED AVERAGE)	A.M.J.J.BONVIN,J.A.C.RULLMANN, R.M.J.N.LAMERICHS,R.BOELENS,R.KAPTEIN	4/93
1CCM	CRAMBIN(PRO 22,LEU 25)(NMR,8 STRUCTURES)	A.M.J.J.BONVIN,J.A.C.RULLMANN, R.M.J.N.LAMERICHS,R.BOELENS,R.KAPTEIN	4/93
2BB2	CRYSTALLIN BETA-B2	B.BAX,R.LAPATTO,V.NALINI,H.DRIESSEN, P.F.LINDLEY,D.MAHADEVAN,T.L.BLUNDELL, C.SLINGSBY	9/92
4GCR	CRYSTALLIN GAMMA-B	C.SLINGSBY,S.NAJMUDIN,V.NALINI,H.P.C.DRIESSEN, T.L.BLUNDELL,D.S.MOSS,P.LINDLEY	4/92
2CPL	CYCLOPHILIN(HUMAN,T CELL)	H.KE	6/92
1RAP	CYTOCHROME C(REP A2 ISO-1,REDUCED)	M.E.P.MURPHY,G.D.BRAYER	8/92
1RAQ	CYTOCHROME C(REP A2(VAL20)ISO-1,REDUCED)	M.E.P.MURPHY,G.D.BRAYER	8/92
1YEA	CYTOCHROME C(YEAST,ISO-2,REDUCED)	M.E.P.MURPHY,G.D.BRAYER	10/91
1YEB	CYTOCHROME C(YEAST B-2036 COMPOSITE, REDUCED)	M.E.P.MURPHY,G.D.BRAYER	10/91
1CTH	CYTOCHROME C3	P.M.MATIAS,C.FRAZAO,J.MORAIS,M.COLL, M.A.CARRONDO	3/93
1COR	CYTOCHROME C551	M.CAI,E.G.BRADFORD,R.TIMKOVICH	6/93
2PAC	CYTOCHROME C551(FE(II)) (NMR,10 STRUCTURES)	D.J.DETLEFSEN,V.THANABAL,V.L.PECORARO, G.WAGNER	5/93
1C53	CYTOCHROME C553(DESULFOVIBRIO VULGARIS)	A.NAKAGAWA,Y.HIGUCHI,N.YASUOKA,Y.KATSUBE, T.YAGA	8/91

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
2HPD	CYTOCHROME P450-BM3(HEMO PROTEIN DOMAIN)	K.G.RAVICHANDRAN,S.S.BODDUPALLI, C.A.HASEMANN,J.A.PETERSON,J.DEISENHOFER	9/93
1PHA	CYTOCHROME P450-CAM(PSEUDOMONAS PUTIDA)(CAMPHOR MONOXYGENASE)/ CAMPHOR(PLUS ISOMER)	T.L.POULOS	7/92
1PHB	CYTOCHROME P450-CAM(PSEUDOMONAS PUTIDA)(CAMPHOR MONOXYGENASE)/ CAMPHOR(MINUS ISOMER)	T.L.POULOS	7/92
1PHC	CYTOCHROME P450-CAM(PSEUDOMONAS PUTIDA)(CAMPHOR MONOXYGENASE)	T.L.POULOS	7/92
1PHD	CYTOCHROME P450-CAM(PSEUDOMONAS PUTIDA)(CAMPHOR MONOXYGENASE)/ 2-PHENYL IMIDAZOLE(STRUCT 1)	T.L.POULOS	7/92
1PHE	CYTOCHROME P450-CAM(PSEUDOMONAS PUTIDA)(CAMPHOR MONOXYGENASE)/ 2-PHENYL IMIDAZOLE(STRUCT 2)	T.L.POULOS	7/92
1PHF	CYTOCHROME P450-CAM(PSEUDOMONAS PUTIDA)(CAMPHOR MONOXYGENASE)/ 4-PHENYL IMIDAZOLE	T.L.POULOS	7/92
1PHG	CYTOCHROME P450-CAM(PSEUDOMONAS PUTIDA)(CAMPHOR MONOXYGENASE)/ METYRAPONE	T.L.POULOS	7/92
1CCC	CYTOCHROME C PEROXIDASE MUTANT(D235A)	D.B.GOODIN,D.E.MCREE	1/93
1CCB	CYTOCHROME C PEROXIDASE MUTANT(D235E)	D.B.GOODIN,D.E.MCREE	1/93
5CCP	CYTOCHROME C PEROXIDASE MUTANT(H52L)	K.BROWN,A.SHAW,M.A.MILLER,J.KRAUT	6/93
6CCP	CYTOCHROME C PEROXIDASE MUTANT(R48K)	J.WANG,M.A.MILLER,J.KRAUT	6/93
7CCP	CYTOCHROME C PEROXIDASE MUTANT(R48L)	J.WANG,M.A.MILLER,J.KRAUT	6/93
1CCA	CYTOCHROME C PEROXIDASE(YEAST,WILD TYPE)	D.B.GOODIN,D.E.MCREE	1/93
2DTB	DELTA-TOXIN(NMR,9 STRUCTURES)	C.M.BLADON,P.BLADON,J.A.PARKINSON	9/92
1DTC	ACETYL-DELTA-TOXIN(NMR,12 STRUCTURES)	C.M.BLADON,P.BLADON,J.A.PARKINSON	10/92
1DR1	DIHYDROFOLATE REDUCTASE/NADP+/BIOPTERIN	M.A.MCTIGUE,J.F.DAVIES II,B.T.KAUFMAN, N.-H.XUONG,J.KRAUT	3/92
1DR6	DIHYDROFOLATE REDUCTASE/ MERCURIBENZOATE/NADP+/BIOPTERIN	M.A.MCTIGUE,J.F.DAVIES II,B.T.KAUFMAN, N.-H.XUONG,J.KRAUT	9/91
1DR7	DIHYDROFOLATE REDUCTASE/ MERCURIBENZOATE/NADP	M.A.MCTIGUE,J.F.DAVIES II,B.T.KAUFMAN, N.-H.XUONG,J.KRAUT	9/91
1DR5	DIHYDROFOLATE REDUCTASE (METHYL MERCURY AT CYS11)/NADP+	M.A.MCTIGUE,J.F.DAVIES II,B.T.KAUFMAN, N.-H.XUONG,J.KRAUT	9/91
1DR4	DIHYDROFOLATE REDUCTASE (METHYL MERCURY AT CYS11)/NADP+/BIOPTERIN	M.A.MCTIGUE,J.F.DAVIES II,B.T.KAUFMAN, N.-H.XUONG,J.KRAUT	9/91
1DR2	DIHYDROFOLATE REDUCTASE/THIO-NADP+	M.A.MCTIGUE,J.F.DAVIES II,B.T.KAUFMAN, N.-H.XUONG,J.KRAUT	9/91
1DR3	DIHYDROFOLATE REDUCTASE/THIO-NADP+/ BIOPTERIN	M.A.MCTIGUE,J.F.DAVIES II,B.T.KAUFMAN, N.-H.XUONG,J.KRAUT	9/91
1EAA	DIHYDROLIPOAMIDE ACETYLTRANSFERASE (CATALYTIC DOMAIN)	A.MATTEVI,W.G.J.HOL	12/92
1EAD	DIHYDROLIPOAMIDE ACETYLTRANSFERASE (CATALYTIC DOMAIN)/COA	A.MATTEVI,W.G.J.HOL	12/92
1EAC	DIHYDROLIPOAMIDE ACETYLTRANSFERASE (CATALYTIC DOMAIN)/COA/DTT	A.MATTEVI,W.G.J.HOL	12/92
1EAB	DIHYDROLIPOAMIDE ACETYLTRANSFERASE (CATALYTIC DOMAIN)/COA/LIPOAMIDE	A.MATTEVI,W.G.J.HOL	12/92
1EAE	DIHYDROLIPOAMIDE ACETYLTRANSFERASE (CATALYTIC DOMAIN)/LIPOAMIDE	A.MATTEVI,W.G.J.HOL	12/92
1EAF	DIHYDROLIPOAMIDE ACETYLTRANSFERASE (CATALYTIC DOMAIN)/HYDROGEN SULFITE	A.MATTEVI,W.G.J.HOL	12/92
131D	DNA HEXAMER D(CGCGCG)/SPERMINE	D.BANCROFT,L.D.WILLIAMS,A.RICH,M.EGLI	6/93
111D	DNA(CGCAAATTGGCG)	T.BROWN,G.A.LEONARD,E.D.BOOTH,J.CHAMBERS	1/93
1GAT	ERYTHROID TRANSCRIPTION FACTOR GATA-1(DNA-BINDING DOMAIN) (NMR,MINIMIZED AVERAGE)	G.M.CLORE,J.G.OMICHINSKI,A.M.GRONENBORN	6/93

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1GAU	ERYTHROID TRANSCRIPTION FACTOR GATA-1(DNA-BINDING DOMAIN) (NMR,30 STRUCTURES)	G.M.CLORE,J.G.OMICHINSKI,A.M.GRONENBORN	6/93
124D	DNA:RNA HYBRID DUPLEX D(GTCACATG)/ R(CAUGUGAC)	O.Y.FEDOROFF,M.SALAZAR,B.R.REID	5/93
126D	DNA(B,CATGGCCATG)	D.S.GOODSELL,M.L.KOPKA,D.CASCIO, R.E.DICKERSON	6/93
122D	DNA(CCAGGC(M5C)TGG)(37 SOLVENT MOLECULES)	U.HEINEMANN,M.HAHN	5/93
123D	DNA(CCAGGC(M5C)TGG)(80 SOLVENT MOLECULES)	U.HEINEMANN,M.HAHN	5/93
1D55	DNA(GAAGCTTC)/ACTINOMYCIN D	S.KAMITORI,F.TAKUSAGAWA	2/92
119D	DNA(CGTAGATCTACG)	G.A.LEONARD,W.N.HUNTER	4/93
1BGH	GENE 5 SS DNA-BINDING PROTEIN OF PHAGE F1	M.M.SKINNER,H.ZHANG,D.H.LESCHNITZER,Y.GUAN, H.BELLAMY,R.M.SWEET,C.W.GRAY,R.N.H.KONINGS, A.H.-J.WANG,T.C.TERWILLIGER	8/93
2ECH	ECHISTATIN	J.T.PELTON,R.A.ATKINSON,V.SAUDEK	4/93
1IXA	FACTOR IX(HUMAN,EGF-LIKE MODULE)	M.BARON,D.G.NORMAN,T.S.HARVEY,P.A.HANFORD, M.MAYHEW,A.G.D.TSE,G.G.BROWNLEE, I.D.C.CAMPBELL	11/91
1EZM	ELASTASE ZINC METALLOPROTEASE	M.M.THAYER,K.M.FLAHERTY,D.B.MCKAY	1/92
1BAA	ENDOCHITINASE(BARLEY)(26 KD)	P.J.HART,A.F.MONZINGO,M.P.READY,S.R.ERNST, J.D.ROBERTUS	11/92
1END	T4 ENDONUCLEASE V	K.MORIKAWA,O.MATSUMOTO,M.TSUJIMOTO, K.KATAYANAGI,M.ARIYOSHI,T.DOI,M.IKEHARA, T.INAOKA,E.OHTSUKA	6/92
1EDP	ENDOTHELIN-1(NMR,MINIMIZED STRUCTURE)	N.H.ANDERSEN,C.CHEN	12/91
1BBO	ENHANCER BINDING PROTEIN(HUMAN) MUTANT(C11ABU)(NMR,60 STRUCTURES)	G.M.CLORE,J.G.OMICHINSKI,A.M.GRONENBORN	5/92
1FAS	FASCICULIN 1	M.H.LE DU,P.MARCHOT,P.E.BOUGIS, J.C.FONTECILLA-CAMPS	8/92
1FDD	FERREDOXIN MUTANT(D15N)	C.D.STOUT	1/93
5FD1	FERREDOXIN(OXIDIZED,PH 8)	C.D.STOUT	6/93
1FDA	FERREDOXIN(OXIDIZED,PH 6)	C.D.STOUT	6/93
1FDB	FERREDOXIN(REDUCED,PH 6)	C.D.STOUT	6/93
1FDC	FERREDOXIN(REDUCED,PH 8)	C.D.STOUT	6/93
1AFC	FIBROBLAST GROWTH FACTOR(ACIDIC) MUTANT(C47A)	X.ZHU,B.T.HSU,D.C.REES	7/93
1BAR	FIBROBLAST GROWTH FACTOR(BOVINE,ACIDIC) MUTANT(C47A,H93G)	X.ZHU,H.KOMIYA,A.CHIRINO,S.FAHAM,G.M.FOX, T.ARAKAWA,B.T.HSU,D.C.REES	9/92
1BAS	FIBROBLAST GROWTH FACTOR(HUMAN,BASIC) MUTANT(C70S,C88S)	A.J.CHIRINO,D.C.REES	9/92
1TEN	TENASCIN(HUMAN,FIBRONECTIN TYPE III REPEAT)	D.J.LEAHY,W.A.HENDRICKSON,I.AUKHIL, H.P.ERICKSON	8/92
1FIA	FIS(FACTOR FOR INVERSION STIMULATION)	D.KOSTREWA,J.GRANZIN,H.-W.CHOE,J.LABAHN, W.SAENGER	12/91
3FIS	FIS(FACTOR FOR INVERSION STIMULATION)	H.S.YUAN,S.E.FINKEL,J-A.FENG, R.C.JOHNSON,R.E.DICKERSON	8/91
4FIS	FIS(FACTOR FOR INVERSION STIMULATION) MUTANT(R89C)	H.S.YUAN,S.E.FINKEL,J.-A.FENG, R.C.JOHNSON,R.E.DICKERSON	8/91
1YAT	FK-506 BINDING PROTEIN(YEAST)/FK-506	J.ROTONDA,J.W.BECKER	1/93
1FKB	FK-506 BINDING PROTEIN/RAPAMYCIN	G.D.VAN DUYNE,R.F.STANDAERT,S.L.SCHREIBER, J.C.CLARDY	7/92
1FLV	FLAVODOXIN(ANABAENA 7120)	S.T.RAO,M.SUNDARALINGAM	7/92
2FX2	FLAVODOXIN(D.VULGARIS)	W.WATT,K.D.WATENPAUGH	10/91
3FX2	FLAVODOXIN(D.VULGARIS,OXIDIZED,-150 C)	W.WATT,K.D.WATENPAUGH	10/91
4FX2	FLAVODOXIN(D.VULGARIS,SEMIQUINONE,-150 C)	W.WATT,K.D.WATENPAUGH	10/91
5FX2	FLAVODOXIN(D.VULGARIS, HYDROQUINONE,-150 C)	W.WATT,K.D.WATENPAUGH	10/91
1FBA	FRUCTOSE-1,6-BISPHOSPHATE ALDOLASE	K.PIONTEK,G.HESTER	6/92

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1FBC	FRUCTOSE-1,6-BISPHOSPHATASE/ 2,5-ANHYDROMANNITOL-1,6-BISPHOSPHATE/ MAGNESIUM	Y.ZHANG,J.-Y.LIANG,S.HUANG,H.KE,W.N.LIPSCOMB	10/92
1FBD	FRUCTOSE-1,6-BISPHOSPHATASE/ 2,5-ANHYDROGLUCITOL-1,6-BISPHOSPHATE/ MANGANESE	Y.ZHANG,J.-Y.LIANG,S.HUANG,H.KE,W.N.LIPSCOMB	10/92
1FBE	FRUCTOSE-1,6-BISPHOSPHATASE/ 2,5-ANHYDROGLUCITOL-1,6-BISPHOSPHATE/ZINC	Y.ZHANG,J.-Y.LIANG,S.HUANG,H.KE,W.N.LIPSCOMB	10/92
1FBF	FRUCTOSE-1,6-BISPHOSPHATASE/ 2,5-ANHYDROGLUCITOL-1,6-BISPHOSPHATE/ MAGNESIUM	Y.ZHANG,J.-Y.LIANG,S.HUANG,H.KE,W.N.LIPSCOMB	10/92
1FBG	FRUCTOSE-1,6-BISPHOSPHATASE/ 2,5-ANHYDROMANNITOL-1,6-BISPHOSPHATE/ MANGANESE	Y.ZHANG,J.-Y.LIANG,S.HUANG,H.KE,W.N.LIPSCOMB	10/92
1FPB	FRUCTOSE-1,6-BISPHOSPHATASE/ FRUCTOSE-2,6-BISPHOSPHATE	J.Y.LIANG,S.HUANG,Y.ZHANG,H.KE,W.N.LIPSCOMB	2/92
1FBH	FRUCTOSE-1,6-BISPHOSPHATASE/ FRUCTOSE-1,6-BISPHOSPHATE	Y.ZHANG,J.-Y.LIANG,S.HUANG,H.KE,W.N.LIPSCOMB	10/92
1FVC	FV FRAGMENT OF HUMANIZED ANTIBODY 4D5(VERSION 8)	C.EIGENBROT,M.RANDAL,A.A.KOSSIAKOFF, L.PRESTA	10/92
1FVD	FV FRAGMENT OF HUMANIZED ANTIBODY 4D5(VERSION 4)	C.EIGENBROT,L.PRESTA,M.RANDAL, A.A.KOSSIAKOFF	10/92
1FVE	FV FRAGMENT OF HUMANIZED ANTIBODY 4D5(VERSION 7)	C.EIGENBROT,M.RANDAL,L.PRESTA, A.A.KOSSIAKOFF	10/92
1SHF	FYN PROTO-ONCOGENE TYROSINE KINASE	M.NOBLE,A.MUSACCHIO,M.SARASTE,R.WIERENGA	5/93
1GCA	GLUCOSE/GALACTOSE-BINDING PROTEIN/ GALACTOSE	J.-Y.ZOU,S.L.MOWBRAY	5/93
1GAL	GLUCOSE OXIDASE	H.J.HECHT,K.KALISZ,J.HENDLE,R.D.SCHMID, D.SCHOMBURG	8/92
1GPR	GLUCOSE PERMEASE(B.SUBTILIS)(IIA DOMAIN)	D.-I.LIAO,O.HERZBERG	9/91
1EGO	GLUTAREDOXIN(OXIDIZED) (NMR,20 STRUCTURES)	T.-H.XIA,J.H.BUSHWELLER,P.SODANO, M.BILLETER,O.BJORNBERG,A.HOLMGREN, K.WUTHRICH	10/91
1EGR	GLUTAREDOXIN(REDUCED) (NMR,20 STRUCTURES)	P.SODANO,T.-H.XIA,J.H.BUSHWELLER, O.BJORNBERG,A.HOLMGREN,M.BILLETER, K.WUTHRICH	10/91
1AAZ	GLUTAREDOXIN(T4)	H.EKLUND,M.INGELMAN,B.-O.SODERBERG, T.UHLIN,P.NORDLUND,M.NIKKOLA,U.SONNERSTAM, T.JOELSON,K.PETRATOS	4/92
1ABA	GLUTAREDOXIN(T4) MUTANT(V15G,Y16P)	H.EKLUND,M.INGELMAN,B.-O.SODERBERG, T.UHLIN,P.NORDLUND,M.NIKKOLA,U.SONNERSTAM, T.JOELSON,K.PETRATOS	4/92
5GST	GLUTATHIONE S-TRANSFERASE/ S-GLUTATHIONYL-DINITROBENZENE	X.JI,R.N.ARMSTRONG,G.L.GILLILAND	5/93
1GST	GLUTATHIONE S-TRANSFERASE/GLUTATHIONE	X.JI,P.ZHANG,R.N.ARMSTRONG,G.L.GILLILAND	3/92
2GST	GLUTATHIONE S-TRANSFERASE(ISOENZYME 3-3) COMPLEX	X.JI,R.N.ARMSTRONG,G.L.GILLILAND	6/93
3GST	GLUTATHIONE S-TRANSFERASE(ISOENZYME 3-3) COMPLEX	X.JI,H.L.AMMON,R.N.ARMSTRONG,G.L.GILLILAND	6/93
4GST	GLUTATHIONE S-TRANSFERASE(ISOENZYME 3-3) COMPLEX	X.JI,R.N.ARMSTRONG,G.L.GILLILAND	7/93
1GUH	GLUTATHIONE TRANSFERASE A 1-1	I.SINNING,G.J.KLEYWEGT,T.A.JONES	2/93
1GLA	GLYCEROL KINASE/GLYCEROL/ GLUCOSE-SPECIFIC FACTOR III	J.H.HURLEY,D.WORTHYLAKE,H.R.FABER, N.D.MEADOW,S.ROSEMAN,D.W.PETTIGREW, S.J.REMINGTON	10/92
1GLB	GLYCEROL KINASE/GLYCEROL/ADP/ GLUCOSE-SPECIFIC FACTOR III	J.H.HURLEY,D.WORTHYLAKE,H.R.FABER, N.D.MEADOW,S.ROSEMAN,D.W.PETTIGREW, S.J.REMINGTON	10/92
1GRC	GLYCINAMIDE RIBONUCLEOTIDE TRANSFORMYLASE	P.CHEN,I.A.WILSON	7/92

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1ABB	GLYCOGEN PHOSPHORYLASE	D.D.LEONIDAS,N.G.OIKONOMAKOS, A.C.PAPAGEORGIOU,K.R.ACHARYA,D.BARFORD, L.N.JOHNSON	4/92
1GPY	GLYCOGEN PHOSPHORYLASE B(T STATE)/ D-GLUCOSE-6-PHOSPHATE	L.N.JOHNSON	4/93
1BGC	GRANULOCYTE COLONY-STIMULATING FACTOR (BOVINE)	B.LOVEJOY,D.CASCIO,D.EISENBERG	4/93
1BGD	GRANULOCYTE COLONY-STIMULATING FACTOR (CANINE,FORM I)	B.LOVEJOY,D.CASCIO,D.EISENBERG	5/93
1BGE	GRANULOCYTE COLONY-STIMULATING FACTOR (CANINE,FORM II)	B.LOVEJOY,D.CASCIO,D.EISENBERG	4/93
1CSG	GRANULOCYTE-MACROPHAGE COLONY-STIMULATING FACTOR	M.R.WALTER,W.J.COOK,S.E.EALICK	11/92
1GMF	GRANULOCYTE-MACROPHAGE COLONY-STIMULATING FACTOR	P.A.KARPLUS,K.DIEDERICHS	12/91
2HHR	HUMAN GROWTH HORMONE/RECEPTOR (EXTRACELLULAR DOMAIN)	A.M.DE VOS,M.ULTSCH,A.A.KOSSIAKOFF	10/92
1EDE	HALOALKANE DEHALOGENASE(NATIVE,PH 8)	K.H.G.VERSCHUEREN,B.W.DIJKSTRA	5/93
1EDB	HALOALKANE DEHALOGENASE(SOAKED IN CHLOROACETAMIDE,PH 6)	K.H.G.VERSCHUEREN,B.W.DIJKSTRA	5/93
2EDA	HALOALKANE DEHALOGENASE(SOAKED IN IODOACETAMIDE,PH 6)	K.H.G.VERSCHUEREN,B.W.DIJKSTRA	8/93
1EDD	HALOALKANE DEHALOGENASE(SOAKED IN SODIUM CHLORIDE,PH 8.2)	K.H.G.VERSCHUEREN,B.W.DIJKSTRA	5/93
1DXT	HEMOGLOBIN(HUMAN,DEOXY) (EXTRA N-TERM MET)	J.S.KAVANAUGH,A.ARNONE	5/92
1DXV	HEMOGLOBIN(HUMAN,DEOXY) MUTANT(V1A)	J.S.KAVANAUGH,A.ARNONE	5/92
1DXU	HEMOGLOBIN(HUMAN,DEOXY) MUTANT(V1M)	J.S.KAVANAUGH,A.ARNONE	5/92
3SDH	HEMOGLOBIN I(SCAPHARCA INAEQUIVALVIS) (HOMODIMER,CO-LIGANDED)	W.E.ROYER JUNIOR	6/93
1BBB	HEMOGLOBIN A(HUMAN,CARBONMONOXY)	A.ARNONE,M.M.SILVA	4/92
4SDH	HEMOGLOBIN I(SCAPHARCA INAEQUIVALVIS) (HOMODIMER,DEOXY)	W.E.ROYER JUNIOR	6/93
1ITH	HEMOGLOBIN(URECHIS CAUPO)	M.HACKERT,P.KOLATKAR,S.R.ERNST,C.M.OGATA, W.A.HENDRICKSON,E.A.MERRITT, R.P.PHIZACKERLEY	12/91
1CMY	HEMOGLOBIN YPSILANTI(HUMAN, CARBON MONOXY)	F.R.SMITH,E.E.LATTMAN,C.W.CARTER JUNIOR	9/92
1HHG	HUMAN CLASS I HISTOCOMPATIBILITY ANTIGEN	D.R.MADDEN,D.N.GARBOCZI,D.C.WILEY	6/93
1HHH	HUMAN CLASS I HISTOCOMPATIBILITY ANTIGEN/ PEPTIDE FROM HEPATITIS B NUCLEOCAPSID PROTEIN(RESIDUES 18-27)	D.R.MADDEN,D.N.GARBOCZI,D.C.WILEY	6/93
1HHI	HUMAN CLASS I HISTOCOMPATIBILITY ANTIGEN/ PEPTIDE FROM INFLUENZA A MATRIX PROTEIN M1(RESIDUES 58-66)	D.R.MADDEN,D.N.GARBOCZI,D.C.WILEY	6/93
1HHJ	HUMAN CLASS I HISTOCOMPATIBILITY ANTIGEN/ PEPTIDE FROM HIV-1 REVERSE TRANSCRIPTASE(RESIDUES 309-317)	D.R.MADDEN,D.N.GARBOCZI,D.C.WILEY	6/93
1HHK	HUMAN CLASS I HISTOCOMPATIBILITY ANTIGEN/ PEPTIDE FROM HIV-1 REVERSE TRANSCRIPTASE(RESIDUES 309-317)	D.R.MADDEN,D.N.GARBOCZI,D.C.WILEY	6/93
1HSB	CLASS I HISTOCOMPATIBILITY ANTIGEN AW68.1	H.-C.GUO,J.L.STROMINGER,D.C.WILEY	3/93
2MHA	HISTOCOMPATIBILITY ANTIGEN(H-2K(B)) (MOUSE CLASS I)	W.ZHANG,A.C.M.YOUNG,M.IMARAI,S.G.NATHENSON, J.C.SACCHETTINI	7/93
1HST	HISTONE H5(GLOBULAR DOMAIN)	V.RAMAKRISHNAN,J.T.FINCH,V.GRAZIANO,P.L.LEE, R.M.SWEET	3/93
1NCP	HIV-1 P7 NUCLEOCAPSID PROTEIN(TWO ZN-BINDING DOMAINS)(NMR,MINIMIZED AVERAGE)	G.M.CLORE,J.G.OMICHINSKI,A.M.GRONENBORN	11/91
8HVP	HIV-1 PROTEASE/INHIBITOR U-85548E	M.JASKOLSKI,M.MILLER,A.G.TOMASSELLI, T.K.SAWYER,D.G.STAPLES,R.L.HEINRIKSON, J.SCHNEIDER,S.B.H.KENT,A.WLODAWER	10/90

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
4PHV	HIV-1 PROTEASE/INHIBITOR L-700,417	R.BONE	10/91
1HIV	HIV-1 PROTEASE/INHIBITOR U75875	N.THANKI,A.WLODAWER	2/92
1HOS	HIV-1 PROTEASE/SB204144	S.ABDEL-MEGUID,B.ZHAO	4/93
2MIP	HIV-2 PROTEASE/INHIBITOR	L.TONG,S.PAV,C.PARGELLIS,F.DO,D.LAMARRE, P.C.ANDERSON	6/93
1AYH	HYBRID PROTEIN(1-3,1-4) BETA-D-GLUCAN-4-GLUCANOHYDROLASE H	T.KEITEL,U.HEINEMANN	12/92
1BYH	HYBRID PROTEIN(B.AMYLOLIQUEFACIENS RES.1-16, B.MACERANS RES.17-214)	T.KEITEL,U.HEINEMANN	12/92
1GGB	IGG2A FAB FRAGMENT(50.1,I222)	M.TAKIMOTO-KAMIMURA,I.A.WILSON	7/93
1INA	ICE NUCLEATION PROTEIN(INAZ)	A.V.KAJAVA,S.E.LINDOW	6/93
1GGC	IGG2A FAB FRAGMENT(50.1,P212121)	M.TAKIMOTO-KAMIMURA,I.A.WILSON	7/93
1INB	ICE NUCLEATION PROTEIN(INAZ)	A.V.KAJAVA,S.E.LINDOW	6/93
1MAM	FAB(MOUSE MONOCLONAL ANTIBODY YST9.1)	D.R.ROSE	1/92
1IND	CHA255 IMMUNOGLOBULIN FAB' FRAGMENT(IGG1-LAMBDA) AND INDIUM(3+)-EOTUBE	R.A.LOVE,W.F.BUTLER	6/93
1INE	CHA255 IMMUNOGLOBULIN FAB' FRAGMENT(IGG1-LAMBDA) AND IRON(3+)-EOTUBE	R.A.LOVE,W.F.BUTLER	6/93
8FAB	IMMUNOGLOBULIN FAB FRAGMENT HIL	F.A.SAUL,R.J.POLJAK	3/92
1DBB	IGG1 FAB' FRAGMENT(DB3 MONOCLONAL ANTIBODY)/PROGESTERONE	J.H.AREVALO,I.A.WILSON	11/92
1IGM	IMMUNOGLOBULIN M(HUMAN) FV FRAGMENT	Z.-C.FAN,L.W.GUDDAT,A.B.EDMUNDSON	7/92
1DBA	IGG1 FAB'(KAPPA 1,SUBGROUP 2A) OF THE DB3 MONOCLONAL ANTIBODY	J.H.AREVALO,I.A.WILSON	11/92
1DFB	IMMUNOGLOBULIN IGG1 K FAB FRAGMENT (3D6 FAB)	X.M.HE,F.RUEKER,E.CASALE,D.C.CARTER	3/92
1GGI	IGG2A FAB FRAGMENT/HIV-1 GP120 PEPTIDE (RESIDUES 311-328)	R.L.STANFIELD,J.M.RINI,I.A.WILSON	4/93
1IFH	IGG2A FAB FRAGMENT/INFLUENZA HEMAGGLUTININ PEPTIDE(RESIDUES 101-107)	U.SCHULZE-GAHMEN,I.A.WILSON	5/93
2HHM	INOSITOL MONOPHOSPHATASE DIMER/GADOLINIUM/SULFATE	R.BONE	10/92
1IZA	INSULIN(PORCINE,2.5 ANGSTROM RESOLUTION)	B.XIAO,G.G.DODSON	10/92
1IZB	INSULIN(PORCINE,2.0 ANGSTROM RESOLUTION)	B.XIAO,G.G.DODSON	10/92
3INK	INTERLEUKIN 2 MUTANT(C125A)	D.B.MCKAY,B.J.BRANDHUBER	12/92
1BBN	INTERLEUKIN 4(NMR,MINIMIZED AVERAGE)	G.M.CLORE,B.POWERS,D.S.GARRETT, A.M.GRONENBORN	5/92
1BCN	INTERLEUKIN 4(NMR,22 STRUCTURES)	G.M.CLORE,B.POWERS,D.S.GARRETT, A.M.GRONENBORN	5/92
1RCB	INTERLEUKIN 4(HUMAN,RECOMBINANT)	A.WLODAWER,A.PAVLOVSKY,A.GUSTCHINA	8/92
1GSB	GLUTATHIONE S-TRANSFERASE(ISOENZYME 3-3)	J.-H.FU,J.P.ROSE,B.-C.WANG	9/93
1GSC	GLUTATHIONE S-TRANSFERASE(ISOENZYME 3-3)	J.-H.FU,J.P.ROSE,B.-C.WANG	9/93
1IPD	3-ISOPROPYLMALATE DEHYDROGENASE	K.IMADA,M.SATO,N.TANAKA,Y.KATSUBE, Y.MATSUURA,T.OSHIMA	1/92
1KDU	KRINGLE DOMAIN OF UROKINASE-TYPE PLASMINOGEN ACTIVATOR(U-PA K)	X.LI,A.M.BOKMAN,M.LLINAS,R.A.G.SMITH, C.M.DOBSON	7/93
9LDB	LACTATE DEHYDROGENASE/NADH	C.R.DUNN,J.J.HOLBROOK,H.MUIRHEAD	11/91
9LDT	LACTATE DEHYDROGENASE/NADH/OXAMATE	C.R.DUNN,J.J.HOLBROOK,H.MUIRHEAD	11/91
1LFH	LACTOFERRIN(APO FORM)	B.F.ANDERSON,E.N.BAKER,G.E.NORRIS	9/91
1LFI	LACTOFERRIN(COPPER FORM)	C.A.SMITH,B.F.ANDERSON,H.M.BAKER,E.N.BAKER	2/92
1LCT	LACTOFERRIN(N-TERMINAL HALF-MOLECULE)	C.L.DAY,B.F.ANDERSON,E.N.BAKER	6/93
1LMB	LAMBDA REPRESSOR/DNA	L.J.BEAMER,C.O.PABO	11/91
2LAL	LECTIN(LENTIL)	R.LORIS,J.STEYAERT,D.MAES,J.LISGARTEN, R.PICKERSGILL,L.WYNS	6/93
1RIN	LECTIN/METHYL-3,6-DI-O-(ALPHA-D-MANNOPYRANOSYL)-ALPHA-D-MANNOPYRANOSIDE	J.M.RINI,K.D.HARDMAN,H.EINSPAHR,F.L.SUDDATH, J.P.CARVER	1/93
1LFB	LFB1 HOMEODOMAIN	T.A.CESKA,M.LAMERS,P.MONACI,A.NICOSIA, R.CORTESE,D.SUCK	6/93
1LGA	LIGNIN PEROXIDASE	T.L.POULOS,S.L.EDWARDS,H.WARIISHI,M.H.GOLD	12/92

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1LIS	LYSIN	A.SHAW,D.E.MCREE,V.D.VACQUIER,C.D.STOUT	6/93
133L	LYSOZYME MUTANT(R115H)	K.HARATA,M.MURAKI,Y.JIGAMI	6/93
134L	LYSOZYME MUTANT(R115E)	K.HARATA,M.MURAKI,Y.JIGAMI	6/93
135L	LYSOZYME(TURKEY)	K.HARATA	6/93
1HHL	LYSOZYME(GUINEA FOWL)	P.M.ALZARI,J.LESCAR	5/93
1HEL	LYSOZYME(HEN)	K.P.WILSON,B.A.MALCOLM,B.W.MATTHEWS	1/92
1HEM	LYSOZYME(HEN) MUTANT(S91T)	K.P.WILSON,B.A.MALCOLM,B.W.MATTHEWS	1/92
1HEN	LYSOZYME(HEN) MUTANT(I55V,S91T)	K.P.WILSON,B.A.MALCOLM,B.W.MATTHEWS	1/92
1HEO	LYSOZYME(HEN) MUTANT(I55V)	K.P.WILSON,B.A.MALCOLM,B.W.MATTHEWS	1/92
1HEP	LYSOZYME(HEN) MUTANT(T40S,I55V,S91T)	K.P.WILSON,B.A.MALCOLM,B.W.MATTHEWS	1/92
1HEQ	LYSOZYME(HEN) MUTANT(T40S,S91T)	K.P.WILSON,B.A.MALCOLM,B.W.MATTHEWS	1/92
1HER	LYSOZYME(HEN) MUTANT(T40S)	K.P.WILSON,B.A.MALCOLM,B.W.MATTHEWS	1/92
1RCM	LYSOZYME(HEN EGG WHITE,PARTIALLY REDUCED)	C.P.HILL,N.L.JOHNSTON,R.E.COHEN	1/93
132L	LYSOZYME(HEN EGG WHITE) (REDUCTIVELY-METHYLATED LYSINES)	I.RAYMENT,W.R.RYPNIEWSKI,H.M.HOLDEN	6/93
3LYT	LYSOZYME(HEN,100 K)(R=0.203)	J.C.DEWAN,A.C.M.YOUNG,R.F.TILTON	3/92
4LYT	LYSOZYME(HEN,298 K)	J.C.DEWAN,A.C.M.YOUNG,R.F.TILTON	3/92
5LYT	LYSOZYME(HEN,100 K)(R=0.176)	J.C.DEWAN,A.C.M.YOUNG,R.F.TILTON	3/92
6LYT	LYSOZYME(HEN,298 K)	J.C.DEWAN,A.C.M.YOUNG,R.F.TILTON	3/92
1HWA	LYSOZYME(NMR,MINIMIZED AVERAGE)	L.J.SMITH,M.J.SUTCLIFFE,C.REDFIELD,C.M.DOBSON	8/92
1LZ5	LYSOZYME MUTANT(4 RESIDUE INSERT)	M.MATSUSHIMA,K.INAKA,T.YAMADA,K.SEKIGUCHI, M.KIKUCHI	2/93
1LZ6	LYSOZYME MUTANT(8 RESIDUE INSERT)	M.MATSUSHIMA,K.INAKA,T.YAMADA,K.SEKIGUCHI, M.KIKUCHI	2/93
1LZ4	LYSOZYME MUTANT(C77A)	K.INAKA,M.MATSUSHIMA,R.KUROKI,Y.TANIYAMA, M.KIKUCHI	2/93
1GHL	LYSOZYME(PHEASANT EGG WHITE)	P.M.ALZARI,J.LESCAR	5/93
1L00	LYSOZYME(T4) MUTANT(Q105A)	P.PJURA,L.P.MCINTOSH,J.A.WOZNIAK, B.W.MATTHEWS	7/92
1L83	LYSOZYME(T4) MUTANT(C54T,C97A,L99A)/ BENZENE	A.E.ERIKSSON,B.W.MATTHEWS	1/92
1L84	LYSOZYME(T4) MUTANT(C54T,C97A,L99A,F153A)/ BENZENE	A.E.ERIKSSON,B.W.MATTHEWS	1/92
1L85	LYSOZYME(T4) MUTANT(C54T,C97A,F153A)	A.E.ERIKSSON,B.W.MATTHEWS	1/92
1L86	LYSOZYME(T4) MUTANT(C54T,C97A,F153I)	A.E.ERIKSSON,B.W.MATTHEWS	1/92
1L87	LYSOZYME(T4) MUTANT(C54T,C97A,F153L)	A.E.ERIKSSON,B.W.MATTHEWS	1/92
1L88	LYSOZYME(T4) MUTANT(C54T,C97A,F153M)	A.E.ERIKSSON,B.W.MATTHEWS	1/92
1L89	LYSOZYME(T4) MUTANT(C54T,C97A,L99A,F153A)	A.E.ERIKSSON,B.W.MATTHEWS	1/92
1L90	LYSOZYME(T4) MUTANT(C54T,C97A,L99A)	A.E.ERIKSSON,B.W.MATTHEWS	1/92
1L91	LYSOZYME(T4) MUTANT(C54T,C97A,L99F)	A.E.ERIKSSON,B.W.MATTHEWS	1/92
1L92	LYSOZYME(T4) MUTANT(C54T,C97A,L99I)	A.E.ERIKSSON,B.W.MATTHEWS	1/92
1L93	LYSOZYME(T4) MUTANT(C54T,C97A,L99M)	A.E.ERIKSSON,B.W.MATTHEWS	1/92
1L94	LYSOZYME(T4) MUTANT(C54T,C97A,L99V)	A.E.ERIKSSON,B.W.MATTHEWS	1/92
1L95	LYSOZYME(T4) MUTANT(C54T,C97A,F153V)	A.E.ERIKSSON,B.W.MATTHEWS	1/92
1L96	LYSOZYME(T4) MUTANT(I3P,P 32 2 1)	M.DIXON,L.SHEWCHUK,B.W.MATTHEWS	2/92
1L97	LYSOZYME(T4) MUTANT(I3P,P 21 21 2)	M.DIXON,L.SHEWCHUK,B.W.MATTHEWS	2/92
1L98	LYSOZYME(T4) MUTANT(Q105E)	P.PJURA,L.P.MCINTOSH,J.A.WOZNIAK, B.W.MATTHEWS	7/92
1L99	LYSOZYME(T4) MUTANT(Q105G)	P.PJURA,L.P.MCINTOSH,J.A.WOZNIAK, B.W.MATTHEWS	7/92
1DYA	LYSOZYME(T4) MUTANT(V131D)	X.ZHANG,B.W.MATTHEWS	5/93
1DYG	LYSOZYME(T4) MUTANT(V131E)	H.-J.ZHOU,B.W.MATTHEWS	5/93
1DYB	LYSOZYME(T4) MUTANT(V131G)	X.ZHANG,B.W.MATTHEWS	5/93
1DYC	LYSOZYME(T4) MUTANT(V131I)	X.ZHANG,B.W.MATTHEWS	5/93
1DYD	LYSOZYME(T4) MUTANT(V131L)	X.ZHANG,B.W.MATTHEWS	5/93
1DYF	LYSOZYME(T4) MUTANT(V131M)	H.-J.ZHOU,B.W.MATTHEWS	5/93
1DYE	LYSOZYME(T4) MUTANT(V131S)	X.ZHANG,B.W.MATTHEWS	5/93
120L	LYSOZYME(T4) MUTANT(A41S,C54T,C97A)	M.BLABER,B.W.MATTHEWS	5/93
122L	LYSOZYME(T4) MUTANT(A73S,C54T,C97A)	M.BLABER,B.W.MATTHEWS	5/93
123L	LYSOZYME(T4) MUTANT(A82S,C54T,C97A)	M.BLABER,B.W.MATTHEWS	5/93
125L	LYSOZYME(T4) MUTANT(A98S,C54T,C97A)	M.BLABER,B.W.MATTHEWS	5/93

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
118L	LYSOZYME(T4) MUTANT(A130S,C54T,C97A)	M.BLABER,B.W.MATTHEWS	5/93
119L	LYSOZYME(T4) MUTANT(A134S,C54T,C97A)	M.BLABER,B.W.MATTHEWS	5/93
1LYE	LYSOZYME(T4) MUTANT(C54T,T59V,C97A)	J.A.BELL,W.J.BECKTEL,U.SAUER,W.A.BAASE, B.W.MATTHEWS	8/92
1LYF	LYSOZYME(T4) MUTANT(C54T,T59S,C97A)	J.A.BELL,W.J.BECKTEL,U.SAUER,W.A.BAASE, B.W.MATTHEWS	8/92
1LYG	LYSOZYME(T4) MUTANT(C54T,T59N,C97A)	J.A.BELL,W.J.BECKTEL,U.SAUER,W.A.BAASE, B.W.MATTHEWS	8/92
1LYH	LYSOZYME(T4) MUTANT(C54T,T59G,C97A)	J.A.BELL,W.J.BECKTEL,U.SAUER,W.A.BAASE, B.W.MATTHEWS	8/92
1LYJ	LYSOZYME(T4) MUTANT(C54T,T59A,C97A)	J.A.BELL,W.J.BECKTEL,U.SAUER,W.A.BAASE, B.W.MATTHEWS	8/92
1LYI	LYSOZYME(T4) MUTANT(C54T,T59D,C97A)	J.A.BELL,W.J.BECKTEL,U.SAUER,W.A.BAASE, B.W.MATTHEWS	8/92
217L	LYSOZYME(T4) MUTANT(S44E,C54T,C97A)	M.BLABER,B.W.MATTHEWS	4/93
107L	LYSOZYME(T4) MUTANT(S44G,C54T,C97A)	M.BLABER,B.W.MATTHEWS	12/92
108L	LYSOZYME(T4) MUTANT(S44I,C54T,C97A)	M.BLABER,B.W.MATTHEWS	12/92
109L	LYSOZYME(T4) MUTANT(S44K,C54T,C97A)	M.BLABER,B.W.MATTHEWS	12/92
110L	LYSOZYME(T4) MUTANT(S44L,C54T,C97A)	M.BLABER,B.W.MATTHEWS	12/92
111L	LYSOZYME(T4) MUTANT(S44N,C54T,C97A)	M.BLABER,B.W.MATTHEWS	12/92
112L	LYSOZYME(T4) MUTANT(S44P,C54T,C97A)	M.BLABER,B.W.MATTHEWS	12/92
113L	LYSOZYME(T4) MUTANT(S44R,C54T,C97A)	M.BLABER,B.W.MATTHEWS	12/92
114L	LYSOZYME(T4) MUTANT(S44T,C54T,C97A)	M.BLABER,B.W.MATTHEWS	12/92
115L	LYSOZYME(T4) MUTANT(S44V,C54T,C97A)	M.BLABER,B.W.MATTHEWS	12/92
116L	LYSOZYME(T4) MUTANT(S44W,C54T,C97A)	M.BLABER,B.W.MATTHEWS	1/93
127L	LYSOZYME(T4) MUTANT(V75T,C54T,C97A)	M.BLABER,B.W.MATTHEWS	5/93
128L	LYSOZYME(T4) MUTANT(V87T,C54T,C97A)	M.BLABER,B.W.MATTHEWS	5/93
126L	LYSOZYME(T4) MUTANT(V149T,C54T,C97A)	M.BLABER,B.W.MATTHEWS	5/93
102L	LYSOZYME(T4) MUTANT(INS N40-A)	D.W.HEINZ,B.W.MATTHEWS	9/92
103L	LYSOZYME(T4) MUTANT(INS N40-SLD)	D.W.HEINZ,B.W.MATTHEWS	9/92
104L	LYSOZYME(T4) MUTANT(INS S44-AA)	D.W.HEINZ,B.W.MATTHEWS	9/92
3LZ2	LYSOZYME(TURKEY)	P.L.HOWELL,S.C.ALMO,M.R.PARSONS,J.HAJDU, G.A.PETSKO	9/91
1LZ3	LYSOZYME(TURKEY)	K.HARATA	11/91
2CMD	MALATE DEHYDROGENASE/CITRATE	M.D.HALL,L.J.BANASZAK	9/92
1EMD	MALATE DEHYDROGENASE/CITRATE/NAD	M.D.HALL,L.J.BANASZAK	3/93
1DMB	D-MALTODEXTRIN-BINDING PROTEIN	A.J.SHARFF,F.A.QUIOCHO	6/93
1MNS	MANDELATE RACEMASE	D.J.NEIDHART,J.A.LANDRO,J.W.KOZARICH	7/93
2MSB	MANNOSE-BINDING PROTEIN A(LECTIN DOMAIN)/ CALCIUM/MAN6GLCNAC2ASN GLYCOPEPTIDE	W.I.WEIS,K.DRICKAMER,W.A.HENDRICKSON	7/92
1CMB	MET APOREPRESSOR	J.B.RAFFERTY,K.PHILLIPS,S.E.V.PHILLIPS	8/92
1CMC	MET REPRESSOR/COREPRESSOR(TRIGONAL)	W.S.SOMERS,S.E.V.PHILLIPS	8/92
1CMA	MET REPRESSOR/OPERATOR	W.S.SOMERS,S.E.V.PHILLIPS	8/92
1MEA	METHIONYL-TRNA SYNTHETASE(ZINC-BINDING DOMAIN)(NMR,MINIMIZED AVERAGE)	D.FOURMY,F.DARDEL	11/92
1MED	METHIONYL-TRNA SYNTHETASE(ZINC-BINDING DOMAIN)(NMR,11 STRUCTURES)	D.FOURMY,F.DARDEL	11/92
1MDA	METHYLAMINE DEHYDROGENASE/AMICYANIN	L.CHEN,R.DURLEY,F.S.MATHEWS	3/92
1HMY	METHYLTRANSFERASE(HHAI DNA(CYTOSINE-C5))	X.CHENG	8/93
3MON	MONELLIN(SERENDIPITY BERRY)	F.JIANG,L.TONG,S.-H.KIM	8/92
2FAL	MYOGLOBIN(APLYSIA LIMACINA,FERRIC)/ CYANIDE	E.CONTI,C.MOSER,M.RIZZI,A.MATTEVI,C.LIONETTI, A.CODA,P.ASCENZI,M.BRUNORI,M.BOLOGNESI	6/93
2FAM	MYOGLOBIN(APLYSIA LIMACINA,FERRIC)/ THIOCYANATE	E.CONTI,C.MOSER,M.RIZZI,A.MATTEVI,C.LIONETTI, A.CODA,P.ASCENZI,M.BRUNORI,M.BOLOGNESI	7/93
1FCS	MYOGLOBIN(FERRIC) MUTANT(H64V,T67R)	M.RIZZI,M.BOLOGNESI,A.CODA,F.CUTRUZZOLA, C.TRAVAGLINI ALLOCATELLI,A.BRANCACCIO, M.BRUNORI	4/93
1MYT	MYOGLOBIN(YELLOWFIN TUNA,MET)	G.I.BIRNBAUM,S.V.EVANS,M.PRZYBYLSKA,D.R.ROSE	5/91
1NOA	NEOCARZINOSTATIN	A.TEPLYAKOV	12/92
1NCO	NEOCARZINOSTATIN CHROMOPROTEIN COMPLEX	K.-H.KIM,B.-M.KWON,A.G.MYERS,D.C.REES	7/93
1NSB	NEURAMINIDASE(INFLUENZA VIRUS)	W.P.BURMEISTER,R.W.H.RUIGROK,S.CUSACK	11/91

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1NSD	NEURAMINIDASE SIALIDASE/2,3-DEHYDRO-2-DEOXY-N-ACETYL NEURAMINIC ACID	W.P.BURMEISTER,R.W.H.RUIGROK,S.CUSACK	5/93
1NSC	NEURAMINIDASE SIALIDASE/N-ACETYL NEURAMINIC ACID	W.P.BURMEISTER,R.W.H.RUIGROK,S.CUSACK	5/93
1NOR	NEUROTOXIN II(NMR,19 STRUCTURES)	A.P.GOLOVANOV,Y.N.UTKIN,A.L.LOMIZE,V.I.TSETLIN, A.S.ARSENIEV	4/93
1NPC	NEUTRAL PROTEASE	W.STARK,R.A.PAUPTIT,J.N.JANSONIUS	1/92
1NIP	NITROGENASE IRON PROTEIN	H.KOMIYA,M.M.GEORGIADIS,P.CHAKRABARTI, D.WOO,J.J.KORNUC,D.C.REES	9/92
1MIO	NITROGENASE MOLYBDENUM-IRON PROTEIN (CLOSTRIDIUM PASTEURIANUM)	J.KIM,D.WOO,D.C.REES	3/93
1MIN	NITROGENASE MOLYBDENUM-IRON PROTEIN (AZOTOBACTER VINELANDII)	J.KIM,D.C.REES	1/93
1NDK	NUCLEOSIDE DIPHOSPHATE KINASE	J.JANIN,C.DUMAS,S.MORERA,I.LASCU,M.VERON	7/93
1OMA	OMEGA-AGA-IVB(SPIDER VENOM TOXIN) (NMR,21 STRUCTURES)	H.YU,M.K.ROSEN,S.L.SCHREIBER	9/93
1OMB	OMEGA-AGA-IVB(SPIDER VENOM TOXIN) (NMR,MINIMIZED AVERAGE)	H.YU,M.K.ROSEN,S.L.SCHREIBER	9/93
1RRO	ONCOMODULIN(RAT RECOMBINANT)	F.R.AHMED,D.R.ROSE,S.V.EVANS,M.E.PIPPY,R.TO	8/92
1HPT	PANCREATIC SECRETORY TRYPSIN INHIBITOR (VARIANT 3)	H.J.HECHT,M.SZARDENINGS,J.COLLINS, D.SCHOMBURG	3/92
1PIP	PAPAIN/SUCCINYL-GLN-VAL-VAL-ALA-ALA-P-NITROANILINE	A.YAMAMOTO,K.TOMOO,M.DOI,H.OHISHI,M.INOUE, T.ISHIDA,D.YAMAMOTO,S.TSUBOI,H.OKAMOTO, Y.OKADA	10/92
1POP	PAPAIN/LEUPEPTIN	E.SCHRODER,C.CRAWFORD	6/93
5PAL	PARVALBUMIN(SHARK,ALPHA LINEAGE)	F.ROQUET,J.-P.DECLERCQ,B.TINANT,J.RAMBAUD, J.PARELLO	9/91
1MPP	PEPSIN(MUCOR PUSILLUS)	M.NEWMAN,F.WATSON,P.ROYCHOWDHURY, H.JONES,M.BADASSO,A.CLEASBY,S.P.WOOD, I.J.TICKLE,T.L.BLUNDELL	2/92
1ABH	PHOSPHATE-BINDING PROTEIN/PHOSPHATE	H.LEUCKE,F.A.QUIOCHO	4/92
1ERP	PHEROMONE ER-10(NMR,20 STRUCTURES)	L.R.BROWN,S.MRONGA,R.BRADSHAW,C.ORTENZI, P.LUPORINI,K.WUTHRICH	12/92
2PNI	PHOSPHATIDYLINOSITOL 3-KINASE(SH3 DOMAIN OF THE P85-ALPHA SUBUNIT)	G.W.BOOKER,I.GOUT,A.K.DOWNING,P.C.DRISCOLL, J.BOYD,M.D.WATERFIELD,I.D.CAMPBELL	7/93
1PNJ	PHOSPHATIDYLINOSITOL 3-KINASE(SH3 DOMAIN OF THE P85-ALPHA SUBUNIT)	G.W.BOOKER,I.GOUT,A.K.DOWNING,P.C.DRISCOLL, J.BOYD,M.D.WATERFIELD,I.D.CAMPBELL	7/93
1F3G	FACTOR III GLC-PHOSPHOCARRIER AND SIGNAL TRANSDUCING PROTEIN	D.WORTHYLAKE,N.MEADOW,S.ROSEMAN, D.-I.LIAO,O.HERZBERG,S.J.REMINGTON	8/91
1HID	PHOSPHOCARRIER PROTEIN(HISTIDINE-CONTAINING)(NMR,MINIMIZED AVERAGE)	M.WITTEKIND,P.RAJAGOPAL,B.R.BRANCHINI, J.REIZER,M.H.SAIER JUNIOR,R.E.KLEVIT	9/92
1PGD	6-PHOSPHOGLUCONATE DEHYDROGENASE(SHEEP)	M.J.ADAMS,S.GOVER,C.PHILLIPS,D.O'N.SOMERS	8/91
1POA	PHOSPHOLIPASE A2	D.L.SCOTT,Z.OTWINOWSKI,P.B.SIGLER	9/92
1POC	PHOSPHOLIPASE A2(BEE)/TRANSITION-STATE ANALOGUE	D.L.SCOTT,Z.OTWINOWSKI,P.B.SIGLER	9/92
1BPQ	PHOSPHOLIPASE A2(BOVINE)	M.SUNDARALINGAM	10/91
2BPP	PHOSPHOLIPASE A2(BOVINE) MUTANT(K56M)	M.SUNDARALINGAM	12/91
1POB	PHOSPHOLIPASE A2(COBRA)/TRANSITION-STATE ANALOGUE	S.P.WHITE,D.L.SCOTT,Z.OTWINOWSKI,P.B.SIGLER	9/92
1BBC	PHOSPHOLIPASE A2(HUMAN)	J.-P.WERY,R.W.SCHEVITZ,D.K.CLAWSON, J.L.BOBBITT,E.R.DOW,G.GAMBOA, T.GOODSON JR,R.B.HERMANN,R.M.KRAMER, D.B.MCCLURE,E.D.MIHELICH,J.E.PUTNAM, J.D.SHARP,D.H.STARK,C.TEATER,M.W.WARRICK, N.D.JONES	5/92
1POE	PHOSPHOLIPASE A2(HUMAN)/TRANSITION-STATE ANALOGUE	D.L.SCOTT,S.P.WHITE,P.B.SIGLER	9/92
1POD	PHOSPHOLIPASE A2(HUMAN SYNOVIAL FLUID)	D.L.SCOTT,S.P.WHITE,P.B.SIGLER	9/92
1PHO	PHOSPHOPORIN	T.SCHIRMER,S.W.COWAN,J.N.JANSONIUS	1/93
1CDD	PHOSPHORIBOSYLGLYCINAMIDE FORMYLTRANSFERASE	R.J.ALMASSY,C.A.JANSON,C.-C.KAN,Z.HOSTOMSKA	5/92

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1CDE	PHOSPHORIBOSYLGLYCINAMIDE FORMYLTRANSFERASE	R.J.ALMASSY,C.A.JANSON,C.-C.KAN,Z.HOSTOMSKA	5/92
4RCR	PHOTOSYNTHETIC REACTION CENTER (RHODOBACTER SPHAEROIDES)	H.KOMIYA,T.O.YEATES,A.J.CHIRINO,D.C.REES, J.P.ALLEN,G.FEHER	9/91
1PK4	PLASMINOGEN KRINGLE 4	A.TULINSKY,A.M.MULICHAK	7/91
2PK4	PLASMINOGEN KRINGLE 4/ EPSILON-AMINOCAPROIC ACID	A.TULINSKY,T.-P.WU	9/91
9PCY	PLASTOCYANIN(REDUCED FORM) (NMR,16 STRUCTURES)	J.M.MOORE,C.A.LEPRE,G.P.GIPPERT,W.J.CHAZIN, D.A.CASE,P.E.WRIGHT	3/91
2PLT	PLASTOCYANIN	M.R.REDINBO,S.MERCHANT,T.O.YEATES	5/93
1PLC	PLASTOCYANIN(POPLAR,CU2+)	J.M.GUSS,H.C.FREEMAN	3/92
1PDA	PORPHOBILINOGEN DEAMINASE	G.V.LOUIE,P.D.BROWNLIE,R.LAMBERT,J.B.COOPER, T.L.BLUNDELL,S.P.WOOD,M.J.WARREN, S.C.WOODCOCK,P.M.JORDAN	11/92
1PCA	PROCARBOXYPEPTIDASE A	A.GUASCH,M.COLL,F.X.AVILES,R.HUBER	10/91
1PPO	PROTEASE OMEGA(PAPAYA) (CYS 25 WITH BOUND HG)	R.W.PICKERSGILL,P.RIZKALLAH,G.W.HARRIS, P.W.GOODENOUGH	7/91
2REB	REC A PROTEIN	R.M.STORY,T.A.STEITZ	3/92
1REA	REC A PROTEIN/ADP	R.M.STORY,T.A.STEITZ	12/91
6RLX	RELAXIN	C.EIGENBROT,M.RANDAL,A.A.KOSSIAKOFF	6/91
1RNE	RENIN(HUMAN)(GLYCOSYLATED,INHIBITED)	M.G.GRUETTER,J.RAHUEL,J.P.PRIESTLE	12/91
1PRA	REPRESSOR PROTEIN(PHAGE 434, DNA-BINDING DOMAIN)(NMR,20 STRUCTURES)	D.NERI,M.BILLETER,K.WUTHRICH	11/91
1OPA	RETINOL-BINDING PROTEIN II(APO,CELLULAR)	N.WINTER,L.BANASZAK	12/92
1OPB	RETINOL-BINDING PROTEIN II(HOLO,CELLULAR)	N.WINTER,L.BANASZAK	12/92
1HVT	REVERSE TRANSCRIPTASE	L.A.KOHLSTAEDT,J.WANG,J.M.FRIEDMAN,P.A.RICE, T.A.STEITZ	6/92
1BSR	RIBONUCLEASE(BOVINE,SEMINAL)	L.MAZZARELLA	4/93
1RTB	RIBONUCLEASE A(BOVINE,PANCREATIC)	D.L.BIRDSALL,A.MCPHERSON	8/92
1RAR	RIBONUCLEASE A FLUORESCENT DERIVATIVE [RNASE1-124(AENS-HIS-12),NACL CRYSTAL]	S.BAUDET-NESSLER,M.JULLIEN,M.-P.CROSIO, J.JANIN	3/93
1RAS	RIBONUCLEASE A FLUORESCENT DERIVATIVE [RNASE1-124(AENS-HIS-12),(NH4)2SO4CRYSTAL]	S.BAUDET-NESSLER,M.JULLIEN,M.-P.CROSIO, J.JANIN	3/93
1RTA	RIBONUCLEASE A/THYMIDYLIC ACID TETRAMER	D.L.BIRDSALL,A.MCPHERSON	8/92
1RDA	RIBONUCLEASE H MUTANT(D10N)	K.KATAYANAGI,K.MORIKAWA	6/93
1RDB	RIBONUCLEASE H MUTANT(E48Q)	K.KATAYANAGI,K.MORIKAWA	6/93
1RDC	RIBONUCLEASE H MUTANT(D70N)	K.KATAYANAGI,K.MORIKAWA	6/93
1RDD	RIBONUCLEASE HI AND MG2+ CO-CRYSTAL	K.KATAYANAGI,K.MORIKAWA	6/93
1FUS	RIBONUCLEASE F1	K.KATAYANAGI,D.G.VASSYLYEV,K.ISHIKAWA, K.MORIKAWA	1/93
1FUT	RIBONUCLEASE F1/ GUANOSINE-2'-MONOPHOSPHATE	K.KATAYANAGI,D.G.VASSYLYEV,K.ISHIKAWA, K.MORIKAWA	1/93
1RIL	RIBONUCLEASE H	K.ISHIKAWA,M.OKUMURA,K.KATAYANAGI,S.KIMURA, S.KANAYA,H.NAKAMURA,K.MORIKAWA	1/93
2RN2	RIBONUCLEASE H(E.COLI)	K.KATAYANAGI,M.MIYAGAWA,M.MATSUSHIMA, M.ISHIKAWA,S.KANAYA,H.NAKAMURA,M.IKEHARA, T.MATSUZAKI,K.MORIKAWA	4/92
1LAW	RIBONUCLEASE H MUTANT(V74I)	K.ISHIKAWA,H.NAKAMURA,K.MORIKAWA,S.KANAYA	5/93
1LAV	RIBONUCLEASE H MUTANT(V74L)	K.ISHIKAWA,H.NAKAMURA,K.MORIKAWA,S.KANAYA	5/93
1RDS	RIBONUCLEASE MS/ 2'-DEOXY-2'-FLUOROGUANYLYL-3',5'-CYTIDINE	T.NONAKA,K.T.NAKAMURA,Y.MITSUI	5/93
1RBC	RIBONUCLEASE S MUTANT(M13A)	R.VARADARAJAN,F.M.RICHARDS	6/92
1RBD	RIBONUCLEASE S MUTANT(M13ABA)	R.VARADARAJAN,F.M.RICHARDS	6/92
1RBE	RIBONUCLEASE S MUTANT(M13F)	R.VARADARAJAN,F.M.RICHARDS	6/92
1RBF	RIBONUCLEASE S MUTANT(M13G)	R.VARADARAJAN,F.M.RICHARDS	6/92
1RBG	RIBONUCLEASE S MUTANT(M13I)	R.VARADARAJAN,F.M.RICHARDS	6/92
1RBH	RIBONUCLEASE S MUTANT(M13L)	R.VARADARAJAN,F.M.RICHARDS	6/92
1RBI	RIBONUCLEASE S MUTANT(M13V)	R.VARADARAJAN,F.M.RICHARDS	6/92
1GMP	RIBONUCLEASE SA/2'-GUANOSINE MONOPHOSPHATE(EMBL DATA)	J.SEVCIK,C.HILL,Z.DAUTER,K.WILSON	10/92
1GMQ	RIBONUCLEASE SA/2'-GUANOSINE MONOPHOSPHATE	J.SEVCIK,C.HILL,Z.DAUTER,K.WILSON	10/92

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1GMR	RIBONUCLEASE SA/2'-GUANOSINE MONOPHOSPHATE(UCLA DATA)	J.SEVCIK,C.HILL,Z.DAUTER,K.WILSON	10/92
1RGA	RIBONUCLEASE T1/GUANYLIC ACID/GUANOSINE	I.ZEGERS,L.WYNS	6/93
1DRI	D-RIBOSE BINDING PROTEIN	S.L.MOWBRAY,L.B.COLE	2/92
1RIP	RIBOSOMAL PROTEIN S17(NMR,6 STRUCTURES)	B.L.GOLDEN,D.W.HOFFMAN,V.RAMAKRISHNAN, S.W.WHITE	8/93
1RLC	RIBULOSE-1,5-BISPHOSPHATE CARBOXYLASE/ OXYGENASE	K.Y.J.ZHANG,D.CASCIO,D.EISENBERG	8/93
1RTC	RICIN A CHAIN(CASTOR PLANT)	D.MLSNA,A.F.MONZINGO,B.J.KATZIN,S.ERNST, J.D.ROBERTUS	10/92
1FMP	RICIN A CHAIN(CASTOR PLANT)/ FORMYCIN 5'-MONOPHOSPHATE	A.F.MONZINGO,J.D.ROBERTUS	6/92
1D96	RNA(GCG)-D(TATACGC)	A.H.-J.WANG,S.FUJII,J.H.VAN BOOM, G.A.VAN DER MAREL,S.A.A.VAN BOECKEL,A.RICH	11/92
8RXN	RUBREDOXIN	Z.DAUTER,L.SIEKER,K.WILSON	8/91
1CAA	RUBREDOXIN(PYROCOCCUS FURIOSUS) (OXIDIZED)	M.W.DAY,B.T.HSU,L.JOSHUA-TOR, J.B.PARK,Z.H.ZHOU,M.W.W.ADAMS,D.C.REES	5/92
1CAD	RUBREDOXIN(PYROCOCCUS FURIOSUS) (REDUCED)	M.W.DAY,B.T.HSU,L.JOSHUA-TOR, J.B.PARK,Z.H.ZHOU,M.W.W.ADAMS,D.C.REES	5/92
2SAS	SARCOPLASMIC CALCIUM-BINDING PROTEIN (ISOTYPE II)	W.J.COOK,Y.S.BABU,J.A.COX	7/93
1SEL	SELENOSUBTILISIN MUTANT (S221SELENOCYSTEINE)	R.SYED,J.M.HOGLE,D.HILVERT	1/93
1SIM	SIALIDASE(2.0 ANGSTROM RESOLUTION)	S.J.CRENNELL,E.F.GARMAN,W.G.LAVER,E.R.VIMR, G.L.TAYLOR	5/93
1SHG	SPECTRIN ALPHA(SH3 DOMAIN)	M.NOBLE,R.PAUPTIT,A.MUSACCHIO,M.SARASTE, R.K.WIERENGA	5/93
1SIL	SIALIDASE/2-DEOXY-2, 3-DEHYDRO-N-ACETYL-NEURAMINIC ACID	S.J.CRENNELL,E.F.GARMAN,W.G.LAVER,E.R.VIMR, G.L.TAYLOR	5/93
1SIB	SUBTILISIN NOVO(BPN') MUTANT(R53K)/EGLIN C	M.G.GRUETTER,D.W.HEINZ,J.P.PRIESTLE	8/93
1COB	SUPEROXIDE DISMUTASE(CU+2,CO+2)	K.DJINOVIC,A.CODA,L.ANTOLINI,G.PELOSI, A.DESIDERI,M.FALCONI,G.ROTILIO,M.BOLOGNESI	2/92
1SBP	SULFATE-BINDING PROTEIN	J.S.SACK,F.A.QUIOCHO	7/93
1SDA	SUPEROXIDE DISMUTASE(CU,ZN,NITRATED AT TYR 108)	C.D.SMITH,M.CARSON,M.VAN DER WOERD,J.CHEN, H.ISCHIROPOULOS,J.S.BECKMAN	1/93
1ABM	SUPEROXIDE DISMUTASE(MANGANESE)	G.E.O.BORGSTAHL,H.E.PARGE,J.A.TAINER	8/92
1TLK	TELOKIN(TURKEY)	I.RAYMENT	7/92
1GPT	GAMMA-1-H THIONIN(NMR,8 STRUCTURES)	M.BRUIX,M.A.JIMENEZ,J.SANTORO,C.GONZALEZ, F.J.COLILLA,E.MENDEZ,M.RICO	7/92
1GPS	GAMMA-1-P THIONIN(NMR,8 STRUCTURES)	M.BRUIX,M.A.JIMENEZ,J.SANTORO,C.GONZALEZ, F.J.COLILLA,E.MENDEZ,M.RICO	7/92
1THO	THIOREDOXIN MUTANT(33R34)	M.NIKKOLA,K.LANGSETMO,J.A.FUCHS,H.EKLUND	1/93
2TIR	THIOREDOXIN MUTANT(K36E)	M.NIKKOLA,F.K.GLEASON,J.A.FUCHS,H.EKLUND	1/93
1THY	THYMIDYLATE SYNTHASE	J.FINER-MOORE,R.STROUD	4/93
1TDM	THYMIDYLATE SYNTHASE/DEOXYURIDINE MONOPHOSPHATE	J.FINER-MOORE,R.STROUD	12/92
1TFI	TRANSCRIPTIONAL ELONGATION FACTOR SII(BINDING DOMAIN)(NMR,12 STRUCTURES)	X.QIAN,S.GOZANI,H.S.YOON,C.J.JEON,K.AGARWAL, M.A.WEISS	4/93
1TFG	TRANSFORMING GROWTH FACTOR BETA2	M.GRUETTER,M.SCHLUNEGGER	11/92
1TTA	TRANSTHYRETIN	J.A.HAMILTON,L.K.STEINRAUF,B.C.BRADEN	11/92
1TTB	TRANSTHYRETIN MUTANT(A109T)	L.K.STEINRAUF,J.A.HAMILTON,B.C.BRADEN	11/92
1TTC	TRANSTHYRETIN MUTANT(V30M)	J.A.HAMILTON,L.K.STEINRAUF,B.C.BRADEN	11/92
1THG	TRIACYLGLYCEROL LIPASE/HYDROLASE	J.D.SCHRAG,M.CYGLER	7/92
1TRE	TRIOSEPHOSPHATE ISOMERASE (ESCHERICHIA COLI)	M.E.M.NOBLE,R.K.WIERENGA	10/92
1TRD	TRIOSEPHOSPHATE ISOMERASE 1(TRYPANOSOMA BRUCEI BRUCEI)	M.E.M.NOBLE,R.K.WIERENGA	10/92
7TIM	TRIOSEPHOSPHATE ISOMERASE/ PHOSPHOGLYCOLOHYDROXAMATE	R.C.DAVENPORT,P.A.BASH,B.A.SEATON,M.KARPLUS, G.A.PETSKO,D.RINGE	4/91
1CTA	TROPONIN C SITE III HOMODIMER (NMR,MINIMIZED AVERAGE)	G.S.SHAW,B.D.SYKES	11/92

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1CTD	TROPONIN C SITE III HOMODIMER (NMR,7 STRUCTURES)	G.S.SHAW,B.D.SYKES	11/92
2TPR	TRYPANOTHIONE REDUCTASE	J.KURIYAN,X.-P.KONG,T.S.R.KRISHNA	8/91
1BBI	TRYPSIN/CHYMOTRYPSIN BOWMAN-BIRK INHIBITOR(NMR,MINIMIZED AVERAGE)	M.H.WERNER,D.E.WEMMER	9/91
2BBI	TRYPSIN/CHYMOTRYPSIN BOWMAN-BIRK INHIBITOR(NMR,16 STRUCTURES)	M.H.WERNER,D.E.WEMMER	9/92
1BTI	TRYPSIN INHIBITOR(BOVINE,PANCREAS) MUTANT(F22A)	D.HOUSSET,F.TAO,K.-S.KIM,J.FUCHS, C.WOODWARD,A.WLODAWER	7/91
1FAN	TRYPSIN INHIBITOR(BOVINE,PANCREAS) MUTANT(F45A)	A.T.DANISHEFSKY,A.WLODAWER,K.-S.KIM,F.TAO, C.WOODWARD	8/92
1NAG	TRYPSIN INHIBITOR(BOVINE,PANCREAS) MUTANT(N43G)	A.T.DANISHEFSKY,A.WLODAWER,K.-S.KIM,F.TAO, C.WOODWARD	8/92
1AAL	TRYPSIN INHIBITOR MUTANT(C30V,C51A)	C.EIGENBROT,M.RANDAL,A.A.KOSSIAKOFF	4/92
1TPL	TYROSINE PHENOL-LYASE	A.ANTSON,T.DEMIDKINA,Z.DAUTER, E.HARUTYUNYAN,K.WILSON	11/92
1AAR	DI-UBIQUITIN	W.J.COOK,L.C.JEFFREY,M.CARSON,Z.CHEN, C.M.PICKART	4/92
1AAK	UBIQUITIN CONJUGATING ENZYME	W.J.COOK,L.C.JEFFREY,M.L.SULLIVAN, R.D.VIERSTRA	4/92
1UDP	URIDINE DIPHOSPHOGALACTOSE-4-EPIMERASE	H.M.HOLDEN,P.A.FREY,I.RAYMENT	7/92
1BOV	VEROTOXIN-1(B SUBUNIT)(E.COLI)	P.E.STEIN,R.J.READ	10/91
1SHA	V-SRC TYROSINE KINASE TRANSFORMING PROTEIN/PHOSPHOPEPTIDE A(TYR-VAL-PRO-MET-LEU)	G.WAKSMAN,J.KURIYAN	8/92
1SHB	V-SRC TYROSINE KINASE TRANSFORMING PROTEIN/PHOSPHOPEPTIDE B (TYR-LEU-ARG-VAL-ALA)	G.WAKSMAN,J.KURIYAN	8/92
1YSA	YEAST GCN4(BASIC REGION-LEUCINE ZIPPER)/ AP-1 DNA	T.E.ELLENBERGER,S.C.HARRISON	8/93
1ZAA	ZIF268/DNA(AGCGTGGGCGT)	N.P.PAVLETICH,C.O.PABO	9/92
1ZRP	ZINC-SUBSTITUTED RUBREDOXIN (NMR,40 STRUCTURES)	P.R.BLAKE,J.B.PARK,Z.H.ZHOU,D.R.HARE, M.W.W.ADAMS,M.F.SUMMERS	7/92
1HRI	RHINOVIRUS 14(HUMAN)/ANTIVIRAL AGENT SCH 38057	A.ZHANG,R.G.NANNI,D.A.OREN,E.ARNOLD	10/92
2SNV	SINDBIS VIRUS CAPSID PROTEIN(TETRAGONAL)	L.TONG,M.G.ROSSMANN	7/92
1TMF	THEILER'S MURINE ENCEPHALOMYELITIS VIRUS	M.LUO,K.S.TOTH	2/92
1POM	C-MYB PROTO-ONCOGENE(DNA-BINDING DOMAIN,REPEAT 3) MODEL	T.J.GIBSON	11/91
1SCC	CYTOCHROME P450SCC(BOVINE) MODEL	S.VIJAYAKUMAR,J.C.SALERNO	1/92
1CDA	CD40 LIGAND COMPLEX WITH CD40 MODEL	M.C.PEITSCH,C.V.JONGENEEL	7/92
1ITA	INTERLEUKIN-1 ALPHA(HUMAN) MODEL	B.VEERAPANDIAN	2/92
1LTP	LACTOSE REPRESSOR(RESIDUES 62-323) MODEL	J.C.NICHOLS,N.K.VYAS,F.A.QUIOCHO, K.S.MATTHEWS	5/93
1RRN	5S RIBOSOMAL RNA MODEL	E.WESTHOF,P.ROMBY,C.EHRESMANN	6/91

STRUCTURE FACTOR ENTRIES

R1CAUSF	CANAVALIN JACK BEAN 7S VICILIN P2(1)3	T-P.KO,J.D.NG,J.DAY,A.GREENWOOD,A.MCPHERSON	7/93
R1CAVSF	CANAVALIN JACK BEAN 7S VICILIN(P63)	T-P.KO,J.D.NG,A.MCPHERSON	5/93
R1CAWSF	CANAVALIN JACK BEAN 7S VICILIN(R3)	T-P.KO,J.D.NG,J.DAY,A.GREENWOOD,A.MCPHERSON	6/93
R1CAXSF	CANAVALIN JACK BEAN 7S VICILIN(C2 2 21)	T-P.KO,J.D.NG,J.DAY,A.GREENWOOD,A.MCPHERSON	6/93
R1CSFSF	CRAMBIN-NEW DATA USED TO REPRODUCE THE ANOMALOUS PATTERSON USED TO SOLVE CRAMBIN	M.M.TEETER,M.D.WHITLOW	10/91
R1RAPSF	CYTOCHROME C(REP A2 ISO-1,REDUCED)	M.E.P.MURPHY,G.D.BRAYER	8/92
R1RAQSF	CYTOCHROME C(REP A2(VAL20)ISO-1,REDUCED)	M.E.P.MURPHY,G.D.BRAYER	8/92
R1D55SF	DNA(GAAGCTTC)/ACTINOMYCIN D	S.KAMITORI,F.TAKUSAGAWA	2/92
R119DSF	DNA(CGTAGATCTACG)	G.A.LEONARD,W.N.HUNTER	4/93
R126DSF	DNA (B, 5'-D(*CP*AP*TP*GP*GP*CP*CP* AP*TP*G)-3')	D.S.GOODSELL,M.L.KOPKA,D.CASCIO, R.E.DICKERSON	8/93
R1BGCSF	GRANULOCYTE COLONY STIMULATING FACTOR (BOVINE)	B.LOVEJOY,D.CASCIO,D.EISENBERG	4/93

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
R1BGDSF	GRANULOCYTE COLONY STIMULATING FACTOR (FORM I,CANINE)	B.LOVEJOY,D.CASCIO,D.EISENBERG	4/93
R1BGESF	GRANULOCYTE COLONY STIMULATING FACTOR (FORM II,CANINE)	B.LOVEJOY,D.CASCIO,D.EISENBERG	4/93
R1ITHSF	HEMOGLOBIN(URECHIS CAUPO)	M.HACKERT,P.KOLATKAR,S.R.ERNST,C.M.OGATA, W.A.HENDRICKSON,E.A.MERRITT, R.P.PHIZACKERLEY	3/92
R133LSF	LYSOZYME (EC 3.2.1.17) ARG115_HIS	K.HARATA,M.MURAKI,Y.JIGAMI	6/93
R134LSF	LYSOZYME (EC 3.2.1.17) ARG115_GLU	K.HARATA,M.MURAKI,Y.JIGAMI	6/93
R3LYTSF	LYSOZYME(HEN,100 KELVIN)(R=0.203)	J.C.DEWAN,A.C.M.YOUNG,R.F.TILTON	3/92
R4LYTSF	LYSOZYME(HEN,298 KELVIN)	J.C.DEWAN,A.C.M.YOUNG,R.F.TILTON	3/92
R5LYTSF	LYSOZYME(HEN,100 KELVIN)(R=0.176)	J.C.DEWAN,A.C.M.YOUNG,R.F.TILTON	3/92
R6LYTSF	LYSOZYME(HEN,298 KELVIN)	J.C.DEWAN,A.C.M.YOUNG,R.F.TILTON	3/92
R3LZ2SF	LYSOZYME(TURKEY)	P.L.HOWELL,S.C.ALMO,M.R.PARSONS,J.HAJDU, G.A.PETSKO	9/91
R2FALSF	MYOGLOBIN(APLYSIA LIMACINA,FERRIC)/ CYANIDE	E.CONTI,C.MOSER,M.RIZZI,A.MATTEVI,C.LIONETTI, A.CODA,P.ASCENZI,M.BRUNORI,M.BOLOGNESI	6/93
R2FAMSF	MYOGLOBIN(APLYSIA LIMACINA,FERRIC)/ THIOCYANATE	E.CONTI,C.MOSER,M.RIZZI,A.MATTEVI,C.LIONETTI, A.CODA,P.ASCENZI,M.BRUNORI,M.BOLOGNESI	7/93
R1RDASF	RIBONUCLEASE H D10N (ASP10 TO ASN) MUTANT (EC 3.1.26.4)	K.KATAYANAGI,K.MORIKAWA	6/93
R1RDBSF	RIBONUCLEASE H E48Q (GLU48 TO GLN) MUTANT (EC 3.1.26.4)	K.KATAYANAGI,K.MORIKAWA	6/93
R1RDCSF	RIBONUCLEASE H D70N (ASP60 TO ASN) MUTANT (E.C. 3.1.26.4)	K.KATAYANAGI,K.MORIKAWA	6/93
R1RDDSF	RIBONUCLEASE HI AND MG2+ CO-CRYSTAL (E.C. 3.1.26.4)	K.KATAYANAGI,K.MORIKAWA	6/93
R2SASSF	SARCOPLASMIC CALCIUM-BINDING PROTEIN (ISOTYPE II)	W.J.COOK,Y.S.BABU,J.A.COX	7/93
R1FANSF	TRYPSIN INHIBITOR(BOVINE,PANCREAS) MUTANT(F45A)	A.T.DANISHEFSKY,A.WLODAWER,K.-S.KIM,F.TAO, C.WOODWARD	8/92
R1NAGSF	TRYPSIN INHIBITOR(BOVINE,PANCREAS) MUTANT(N43G)	A.T.DANISHEFSKY,A.WLODAWER,K.-S.KIM,F.TAO, C.WOODWARD	8/92
R4GCRSF	CRYSTALLIN GAMMA-B	C.SLINGSBY,S.NAJMUDIN,V.NALINI,H.P.C.DRIESSEN, T.L.BLUNDELL,D.S.MOSS,P.LINDLEY	4/92
R1FIASF	FIS	D.KOSTREWA,J.GRANZIN,H.-W.CHOE,J.LABAHN, W.SAENGER	12/91
R3SDHSF	HEMOGLOBIN I (HOMODIMER, CO-LIGANDED, SCAPHARCA)	W.E.ROYER JUNIOR	6/93
R4SDHSF	HEMOGLOBIN I(HOMODIMER, DEOXY, SCAPHARCA)	W.E.ROYER JUNIOR	6/93
R1BBBSF	HEMOGLOBIN A(HUMAN,CARBONMONOXY)	A.ARNONE,M.M.SILVA	4/92
R1RCMSF	LYSOZYME(HEN EGG WHITE,PARTIALLY REDUCED)	C.P.HILL,N.L.JOHNSTON,R.E.COHEN	1/93
R1LZ3SF	LYSOZYME(TURKEY)	K.HARATA	11/91
R2MSBSF	MANNOSE-BINDING PROTEIN A(LECTIN DOMAIN)/ CALCIUM/MAN6GLCNAC2ASN GLYCOPEPTIDE	W.I.WEIS,K.DRICKAMER,W.A.HENDRICKSON	7/92
R1CDDSF	PHOSPHORIBOSYLGLYCINAMIDE FORMYLTRANSFERASE	R.J.ALMASSY,C.A.JANSON,C.-C.KAN,Z.HOSTOMSKA	5/92
R1CDESF	PHOSPHORIBOSYLGLYCINAMIDE FORMYLTRANSFERASE	R.J.ALMASSY,C.A.JANSON,C.-C.KAN,Z.HOSTOMSKA	5/92
R1PPOSF	PROTEASE OMEGA(PAPAYA)	R.W.PICKERSGILL,P.RIZKALLAH,G.W.HARRIS, P.W.GOODENOUGH	7/91
R6RLXSF	RELAXIN(HUMAN)	C.EIGENBROT,M.RANDAL,A.A.KOSSIAKOFF	6/91

Newly Deposited Entries (presently being processed - not yet released)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1ADN	N-ADA10	L.C.MYERS,G.L.VERDINE,G.WAGNER	9/93
1APA	ALPHA POKEWEED ANTIVIRAL PROTEIN	H.AGO,J.KATAOKA,H.TSUGE,N.HABUKA,E.INAGAKI, M.NOMA,M.MIYANO	9/93
1ARR	ARC REPRESSOR	A.M.J.J.BONVIN,H.VIS,M.J.M.BURGERING, J.N.BREG,R.BOELENS,R.KAPTEIN	6/93
1MAQ	ASPARTATE AMINOTRANSFERASE/KETIMINE	V.N.MALASHKEVICH,J.N.JANSONIUS	
1TAR	ASPARTATE AMINOTRANSFERASE(HOLO FORM)	E.HOHENESTER,J.N.JANSONIUS	10/93
1TAS	ASPARTATE AMINOTRANSFERASE/ ALPHA-METHYLASPARTATE	E.HOHENESTER,J.N.JANSONIUS	10/93
1MAP	ASPARTATE AMINOTRANSFERASE/KETIMINE	V.N.MALASHKEVICH,J.N.JANSONIUS	9/93
1TAT	ASPARTATE AMINOTRANSFERASE(HOLO FORM)	E.HOHENESTER,J.N.JANSONIUS	10/93
1ASL	ASPARTATE AMINOTRANSFERASE/ 2-METHYLASPARTYL-PYRIDOXAL-5'-PHOSPHATE	J.JAEGER,J.N.JANSONIUS	9/93
1ASM	ASPARTATE AMINOTRANSFERASE/MALEATE	J.JAEGER,J.N.JANSONIUS	9/93
1ASN	ASPARTATE AMINOTRANSFERASE/SULFATE	J.JAEGER,J.N.JANSONIUS	9/93
1BSA	BARNASE MUTANT(I51V)	A.M.BUCKLE,K.HENRICK,A.R.FERSHT	7/93
1BSB	BARNASE MUTANT(I76V)	A.M.BUCKLE,K.HENRICK,A.R.FERSHT	7/93
1BSC	BARNASE MUTANT(I88V)	A.M.BUCKLE,K.HENRICK,A.R.FERSHT	7/93
1BSE	BARNASE MUTANT(I89V)	A.M.BUCKLE,K.HENRICK,A.R.FERSHT	7/93
1BSD	BARNASE MUTANT(I96V)	A.M.BUCKLE,K.HENRICK,A.R.FERSHT	7/93
1CVC	CARBONIC ANHYDRASE II	J.A.IPPOLITO,D.W.CHRISTIANSON	9/93
2CTC	CARBOXYPEPTIDASE A/L-PHENYL LACTATE	A.TEPLYAKOV,K.S.WILSON,P.ORIOLI,S.MANGANI	9/93
2CTB	CARBOXYPEPTIDASE A(NATIVE)	A.TEPLYAKOV,K.S.WILSON,P.ORIOLI,S.MANGANI	9/93
2CCX	CARDIOTOXIN CTX IIB(NMR,20 STRUCTURES)	J.O'CONNELL,K.WUTHRICH	2/93
1CDB	CD2 (HUMAN, DOMAIN 1)	D.F.WYSS,J.M.WITHKA,M.A.RECNY,G.WAGNER	9/93
125D	CD2-GAL4(DNA-BINDING DOMAIN)	J.D.BALEJA,G.WAGNER	5/93
1CHF	CHEY	A.STOCK,E.MARTINEZ-HACKERT, B.RASMUSSEN,A.WEST,J.STOCK,D.RINGE, G.PETSKO	10/93
1CHE	CHEY WITH MG2+ BOUND AT THE ACTIVE SITE	A.STOCK,E.MARTINEZ-HACKERT, B.RASMUSSEN,A.WEST,J.STOCK,D.RINGE, G.PETSKO	10/93
1CHB	CHOLERA TOXIN B-PENTAMER (CHOLERAGEN)	E.A.MERRITT,S.SARFATY,F.VAN DEN AKKER, C.L'HOIR,J.A.MARTIAL,W.G.J.HOL	9/93
1YPC	CHYMOTRYPSIN INHIBITOR 2 MUTANT(E33A,E34A)	Y.HARPAZ,N.ELMASRY,A.R.FERSHT,K.HENRICK	10/93
1YPB	CHYMOTRYPSIN INHIBITOR 2 MUTANT (S31G,E33A,E34A)	Y.HARPAZ,N.ELMASRY,A.R.FERSHT,K.HENRICK	10/93
1YPA	CHYMOTRYPSIN INHIBITOR 2 MUTANT (S31A,E33A,E34A)	Y.HARPAZ,N.ELMASRY,A.R.FERSHT,K.HENRICK	10/93
1CDG	CYCLODEXTRIN GLYCOSYLTRANSFERASE	C.L.LAWSON,R.VAN MONTFORT, B.V.STROKOPYTOV,K.H.KALK,H.J.ROZEBOOM, B.W.DIJKSTRA	8/93
1RMC	CYCLOPHILIN C	H.KE,Y.ZHAO,F.LUO,I.WEISSMAN,J.FRIEDMAN	8/93
1CYB	CYCLOPHILIN/CYCLOSPORIN A (NMR,20 STRUCTURES)	S.FESIK	2/92
1APC	APOFORM OF CYTOCHROME B562	A.J.WAND,Y.FENG,S.G.SLIGAR	10/93
1CRG	CYTOCHROME C (ISOZYME 1) (OXIDIZED) MUTANT(N52I,C102T)	A.M.BERGHUIS,G.D.BRAYER	8/93
1CRI	CYTOCHROME C (ISOZYME 1) (OXIDIZED) MUTANT(N52I,Y67F,C102T)	A.M.BERGHUIS,G.D.BRAYER	8/93
1CRH	CYTOCHROME C (ISOZYME 1) (REDUCED) MUTANT(N52I)	A.M.BERGHUIS,G.D.BRAYER	8/93
1CRJ	CYTOCHROME C (ISOZYME 1) (REDUCED) MUTANT(N52I, Y67F, C102T)	A.M.BERGHUIS,G.D.BRAYER	8/93
2CYM	CYTOCHROME C3	Y.MORIMOTO,T.TANI,H.OKUMURA,Y.HIGUCHI, N.YASUOKA	9/93
1DSB	DSBA(DISULFIDE BOND FORMATION FACILITATOR)	J.L.MARTIN,J.C.A.BARDWELL,J.KURIYAN	5/93

Newly Deposited Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
121D	DNA(CGCAAATTTGCG)/NETROPSIN	J.AYMAMI,M.COLL,L.TABERNERO,N.VERDAGUER, I.FITA	4/93
133D	DNA (CGCG(M4C)G)	A.R.CERVI,A.GUY,G.A.LEONARD,R.TEOULE, W.N.HUNTER	7/93
2D95	DNA(GGGCGCCC)	M.EISENSTEIN,H.HOPE,T.E.HARAN,F.FROLOW, Z.SHAKKED,D.RABINOVICH	6/93
132D	DNA(GCCGTTAACGGC) DUPLEX (INCLUDING HPAI RESTRICTION SITE)	S.G.KIM,B.R.REID	6/93
2D94	DNA(GGGCGCCC)	Z.SHAKKED,G.GUERSTEIN-GUZIKEVICH, M.EISENSTEIN,F.FROLOW,D.RABINOVICH	6/93
130D	DNA(CGC(06_ETHYL_G)AATTCGCG)/ HOECHST33342	M.SRIRAM,A.H.J.WANG	6/93
128D	DNA(CGC(06_ETHYL_G)AATTCGCG)/ HOECHST33258	M.SRIRAM,A.H.J.WANG	6/93
127D	DNA(CGCGAATTCGCG)/HOECHST33258	M.SRIRAM,A.H.J.WANG	6/93
129D	DNA(CGCGAATTCGCG)/HOECHST33342	M.SRIRAM,A.H.J.WANG	6/93
1EGL	EGLIN C(NMR, 25 STRUCTURES)	S.G.HYBERTS,M.S.GOLDBERG,T.F.HAVEL, G.WAGNER	9/93
1NEL	ENOLASE	L.LEBIODA,E.ZHANG,K.LEWINSKI,M.J.BREWER	7/93
1LTA	HEAT-LABILE ENTEROTOXIN (LT)/GALACTOSE	E.A.MERRITT,T.K.SIXMA,K.H.KALK, B.A.M.VAN ZANTEM,W.G.J.HOL	9/93
1LTB	HEAT-LABILE ENTEROTOXIN (LT)(PARTIALLY ACTIVATED BY TRYPSIN CLEAVAGE)	E.A.MERRITT,T.K.SIXMA,W.G.J.HOL	9/93
1ICN	INTESTINAL FATTY ACID BINDING PROTEIN MUTANT(R106Q)/OLEATE	J.C.EADS,J.C.SACCHETTINI,A.KROMMINGA, J.I.GORDON	9/93
1ICM	INTESTINAL FATTY ACID BINDING PROTEIN/ MYRISTATE	J.C.EADS,J.C.SACCHETTINI,A.KROMMINGA, J.I.GORDON	9/93
2BFH	FIBROBLAST GROWTH FACTOR(BASIC,WILD TYPE)	Y.KITAGAWA,H.AGO,Y.KATSUBE,A.FUJISHIMA, Y.MATSUURA	9/93
1TTF	TENTH TYPE III MODULE OF FIBRONECTIN	A.L.MAIN,T.S.HARVEY,M.BARON,I.D.CAMPBELL	7/93
1GRX	GLUTAREDOXIN MUTANT(C145)/GLUTATHIONE	J.H.BUSHWELLER,M.BILLETER,L.A.HOLMGREN, K.WUTHRICH	10/93
1GDH	GLYCERATE DEHYDROGENASE(APO FORM)	J.D.GOLDBERG,T.YOSHIDA,P.BRICK	9/93
2EDC	HALOALKANE DEHALOGENASE(SOAKED IN POTASSIUM IODIDE,PH 8.2)	K.H.G.VERSCHUEREN,B.W.DIJKSTRA	8/93
1HBC	HEMOGLOBIN A(ETHYL ISOCYANIDE)	K.A.JOHNSON	4/93
1HBE	HEMOGLOBIN A(N-BUTYL ISOCYANIDE)	K.A.JOHNSON	4/93
1HBF	HEMOGLOBIN A(N-PROPYL ISOCYANIDE)	K.A.JOHNSON	4/93
1HBD	HEMOGLOBIN A(METHYL ISOCYANIDE)	K.A.JOHNSON	4/93
1HPB	HISTIDINE-BINDING PROTEIN (HISJ)/HISTIDINE	S.H.KIM,B.H.OH	9/93
1MAJ	IMMUNOGLOBULIN MURINE ANTIBODY 26-10 VL DOMAIN(NMR)	K.L.CONSTANTINE,M.S.FRIEDRICHS,W.J.METZLER, M.WITTEKIND,P.HENSLEY,L.MUELLER	9/93
1MAK	IMMUNOGLOBULIN MURINE ANTIBODY 26-10 VL DOMAIN(NMR)	K.L.CONSTANTINE,M.S.FRIEDRICHS,W.J.METZLER, M.WITTEKIND,P.HENSLEY,L.MUELLER	9/93
1RFB	RECOMBINANT BOVINE INTERFERON-GAMMA	C.T.SAMUDZI,J.R.RUBIN	6/93
1BLC	BETA LACTAMASE/DEGRADATION PRODUCTS OF CLAVULANATE	C.C.H.CHEN,O.HERZBERG	9/93
1LCC	LAC REPRESSOR N-TERMINAL FRAGMENT/11 BASE PAIR HALF-OPERATOR (NMR,4 STRUCTURES)	V.P.CHUPRINA,J.A.C.RULLMANN, R.M.J.N.LAMERICHS,J.H.VAN BOOM, R.BOELENS,R.KAPTEIN	3/93
138L	LYSOZYME MUTANT(A93C,C54T,C97A)	D.W.HEINZ,B.W.MATTHEWS	9/93
139L	LYSOZYME MUTANT(N68C,A93C,C54T,C97A)	D.W.HEINZ,B.W.MATTHEWS	9/93
2IHL	LYSOZYME(QUAIL)	A.HOUDUSSE,G.A.BENTLEY,R.J.POLJAK, H.SOUCHON,Z.ZHANG	6/93
221L	LYSOZYME(T4) MUTANT(A49S,C54T,C97A)	M.BLABER,B.W.MATTHEWS	9/93
224L	LYSOZYME(T4) MUTANT(A93S,C54T,C97A)	M.BLABER,B.W.MATTHEWS	9/93
2MNR	MANDELATE RACEMASE(PSEUDOMONAS PUTIDA)	D.NEIDHART,G.PETSKO	7/93
1YCA	MYOGLBIN (CARBONMONOXY, PH 7.1)	A.D.CAMERON,S.J.SMERDON,A.J.WILKINSON, J.HABASH,J.R.HELLIWELL	8/93

Newly Deposited Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1YCB	MYOGLOBIN (DEOXY,PH 7.1)	A.D.CAMERON,S.J.SMERDON,A.J.WILKINSON, J.HABASH,J.R.HELLIWELL	8/93
2MYA	MYOGLOBIN(ETHYL ISOCYANIDE,PH 7.0)	K.A.JOHNSON	8/93
2MYE	MYOGLOBIN(ETHYL ISOCYANIDE,PH <<7.0)	K.A.JOHNSON	8/93
1YMC	HORSE HEART CYANOMET-SULFMYOGLOBIN C	S.V.EVANS,G.D.BRAYER	9/93
1YMB	HORSE HEART MET-MYOGLOBIN	S.V.EVANS,G.D.BRAYER	9/93
1YMA	HORSE HEART MYOGLOBIN MUTANT (H64Y)	R.MAURUS,G.D.BRAYER	9/93
2MGK	MYOGLOBIN(MET,CARBONMONOXY) MUTANT(D122N)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
2MGA	MYOGLOBIN(MET,CARBONMONOXY) MUTANT(D122N,H64G)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
2MGC	MYOGLOBIN(MET,CARBONMONOXY) MUTANT(D122N,H64L)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
2MGF	MYOGLOBIN(MET,CARBONMONOXY) MUTANT(D122N,H64Q)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
2SPL	MYOGLOBIN(MET,CARBONMONOXY) MUTANT(D122N,L29F)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JR.	8/93
2MGL	MYOGLOBIN(MET,DEOXY) MUTANT(D122N)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
2MGD	MYOGLOBIN(MET,DEOXY) MUTANT(D122N,H64L)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
2MGG	MYOGLOBIN(MET,DEOXY) MUTANT(D122N,H64Q)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
2MGM	MYOGLOBIN(MET,OXY) MUTANT(D122N)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
2SPN	MYOGLOBIN(MET,OXY) MUTANT(D122N,L29F)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JR.	8/93
2MGB	MYOGLOBIN(MET) MUTANT(D122N,H64G)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
2MGE	MYOGLOBIN(MET) MUTANT(D122N,H64L)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
2MGH	MYOGLOBIN(MET) MUTANT(D122N,H64Q)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
2MGI	MYOGLOBIN(MET) MUTANT(D122N,H64T)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
2MGJ	MYOGLOBIN(MET) MUTANT(D122N,H64V)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
2SPM	MYOGLOBIN(MET) MUTANT(D122N,L29F)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JR.	8/93
2SPO	MYOGLOBIN(MET) MUTANT(D122N,L29V)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JR.	8/93
2MYB	MYOGLOBIN(METHYL ISOCYANIDE,PH 7.0)	K.A.JOHNSON	8/93
2MYC	MYOGLOBIN(N-BUTYL ISOCYANIDE,PH 7.0)	K.A.JOHNSON	8/93
2MYD	MYOGLOBIN(N-PROPYL ISOCYANIDE,PH 7.0)	K.A.JOHNSON	8/93
1NAR	NARBONIN	M.HENNIG,B.SCHLESIER,K.S.WILSON	9/93
1PNH	P05-NH2 SCORPION TOXIN ANALOG	S.MEUNIER,J.M.BERNASSAU,J.M.SABATIER, M.F.MARTIN-EAUCLAIRE,J.VAN RIETSCHOTEN, C.CAMBILLAU,H.DARBON	8/93
1ADR	P22 C2 REPRESSOR (AMINO-TERMINAL DNA-BINDING DOMAIN)	P.S.SIERRA,G.OTTING,K.WUTHRICH	7/93
1ONC	P-30 PROTEIN	S.C.MOSIMANN,W.ARDELT,M.N.G.JAMES	8/93
1PAS	PARVALBUMIN (ALPHA LINEAGE, PI 5.0)	A.PADILLA,A.CAVE,J.PARELLO,G.ETIENNE, C.BALDELLON	9/93
1PAT	PARVALBUMIN (ALPHA LINEAGE, PI 5.0)	A.PADILLA,A.CAVE,J.PARELLO,G.ETIENNE, C.BALDELLON	9/93
1ARP	PEROXIDASE(ARTHROMYCES RAMOSUS)	N.KUNISHIMA,K.FUKUYAMA	6/93
2PNA	PHOSPHATIDYLINOSITOL-3-KINASE(N-TERMINAL SH2 DOMAIN,P85-ALPHA SUBUNIT)	G.W.BOOKER,A.L.BREEZE,A.K.DOWNING, G.PANAYOTOU,I.GOUT,M.D.WATERFIELD, I.D.CAMPBELL	6/93
1PSH	PHOSPHOLIPASE A2	D.FREMONT,I.WILSON	7/92
1PTF	PHOSPHOTRANSFERASE (HISTIDINE-CONTAINING PHOSPHOCARRIER PROTEIN)	Z.JIA,W.QUAIL,L.DELBAERE	10/93
1PPS	PHOTOSYSTEM I REACTION CENTER(TRIMERIC)	N.KRAUSS,W.HINRICHS,I.WITT,P.FROMME, W.PRITZKOW,Z.DAUTER,C.BETZEL,K.S.WILSON, H.WITT,W.SAENGER	1/93
1PAJ	PAK PILIN	C.MCINNES,F.D.SONNICHSEN,C.M.KAY,R.S.HODGES, B.D.SYKES	8/93
1PAK	PAK PILIN	C.MCINNES,F.D.SONNICHSEN,C.M.KAY,R.S.HODGES, B.D.SYKES	8/93

Newly Deposited Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1PKR	HUMAN PLASMINOGEN KRINGLE 1 (RECOMBINANT)	T.P.WU,A.TULINSKY	8/93
1PNC	PLASTOCYANIN	B.A.FIELDS,J.M.GUSS,H.C.FREEMAN	9/93
1PND	PLASTOCYANIN	B.A.FIELDS,J.M.GUSS,H.C.FREEMAN	9/93
1PRF	PROFILIN IA	S.J.ARCHER,V.K.VINSON,T.D.POLLARD, E.E.LATTMAN,D.A.TORCHIA	6/93
1PRP	PROPAMIDINE/DNA (CGCGAATTCGCG)	C.M.NUNN,T.C.JENKINS,S.NEIDLE	7/93
2PKC	PROTEINASE K (CALCIUM-FREE FORM)	A.MUELLER,W.M.WOLF,W.HINRICHS,W.SAENGER	6/93
1ERB	N-ETHYL RETINAMIDE-RETINOL BINDING PROTEIN COMPLEX	G.ZANOTTI,R.BERNI	10/93
1HRA	HUMAN RETINOIC ACID RECEPTOR (BETA-DNA BINDING DOMAIN)	R.M.A.KNEGTEL,M.KATAHIRA,J.G.SCHILTHUIS, A.M.J.J.BONVIN,R.BOELENS,D.EIB,P.T.VANDERSAAG, R.KAPTEIN	7/93
1HBQ	RETINOL BINDING PROTEIN(APO FORM)	G.ZANOTTI,H.L.MONACO	2/93
1HBP	RETINOL BINDING PROTEIN(HOLO FORM)	G.ZANOTTI,H.L.MONACO	2/93
1GOA	RIBONUCLEASE H MUTANT WITH GLY80B INSERTED BETWEEN GLN80 AND TRP81	K.ISHIKAWA,S.KIMURA,H.NAKAMURA,K.MORIKAWA, S.KANAYA	5/93
1GOB	RIBONUCLEASE H MUTANT (GLY77)	K.ISHIKAWA,S.KIMURA,H.NAKAMURA,K.MORIKAWA, S.KANAYA	5/93
1GOC	RIBONUCLEASE H MUTANT (G77A, G80B INSERTED)	K.ISHIKAWA,S.KIMURA,H.NAKAMURA,K.MORIKAWA, S.KANAYA	5/93
1RBS	RIBONUCLEASE H MUTANT(H62A)	K.ISHIKAWA,S.KIMURA,S.KANAYA,K.MORIKAWA, H.MAKAMURA	2/93
1LRA	LYS 25-RIBONUCLEASE T1	J.PLETINCKX,J.STEYAERT,H.W.CHOE,U.HEINEMANN, L.WYNS	10/93
1PKP	RIBOSOMAL PROTEIN S5(PROKARYOTIC)	V.RAMAKRISHNAN,S.W.WHITE	8/93
1RAU	RNA(UGGGGU)4 (NMR, 8 STRUCTURES)	C.CHEONG,P.B.MOORE	7/93
1ELH	5S RIBOSOMAL RNA(HELIX 1) (NMR,6 STRUCTURES)	S.WHITE,P.MOORE	6/93
1RPC	RP71935 (NMR, 20 STRUCTURES)	D.FRECHET,J.D.GUITTON,F.HERMAN,D.FAUCHER, G.HELYNCK,B.MONEGIER,D.U.SORBIER,J.P.RIDOUX, E,J.SURCOUF,M.VUILHORGNE	8/93
1RPB	RP71955 (NMR, MINIMIZED MEAN STRUCTURE)	D.FRECHET,J.D.GUITTON,F.HERMAN,D.FAUCHER, G.HELYNCK,B.MONEGIER,D.SORBIER,J.P.RIDOUX, E.J.SURCOUF,M.VUILHORGNE	8/93
1SRY	SERYL-TRNA SYNTHETASE	M.FUJINAGA,C.BERTHET-COLOMINAS,S.CUSACK	8/93
1SIV	SIMIAN IMMUNODEFICIENCY VIRUS (SIV) PROTEASE/INHIBITOR SKF107457	B.ZHAO,S.ABDEL-MEGUID	8/93
1AB2	SRC HOMOLOGY 2 DOMAIN OF PROTO-ONCOGENE TYROSINE KINASE	M.OVERDUIN,B.C.RIOS,B.J.MAYER,D.BALTIMORE, D.COWBURN	7/93
1SCD	SUBTILISIN CARLSBERG	P.A.FITZPATRICK,D.RINGE,A.M.KLIBANOV	8/93
1SCB	SUBTILISIN CARLSBERG	P.A.FITZPATRICK,A.C.U.STEINMETZ,D.D.RINGE, A.M.KLIBANOV	7/93
1SCA	SUBTILISN CARLSBERG(NATIVE)	P.A.FITZPATRICK,A.C.U.STEINMETZ,D.RINGE, A.M.KLIVANOV	7/93
1SPD	SUPEROXIDE DISMUTASE	H.E.PARGE,J.A.TAINER	7/93
1SRD	SUPEROXIDE DISMUTASE(CU,ZN)	Y.KITAGAWA,Y.KATSUBE	4/93
1TBP	C-TERMINAL 179 AMINO ACIDS OF TATA-BINDING PROTEIN (TBP)	D.I.CHASMAN,K.M.FLAHERTY,P.A.SHARP, R.D.KORNBERG	8/93
1IHS	THROMBIN/HIRUTONIN-2	A.ZDANOV,M.CYGLER	8/93
1IHT	THROMBIN/HIRUTONIN-6	A.ZDANOV,M.CYGLER	8/93
1TMB	THROMBIN/CYCLOTHEONAMIDE A	X.QIU,K.P.PADMANABHAN,B.E.MARYANOFF, A.TULINSKY	5/93
3HTC	THROMBIN/HIRUDIN(VARIANT 2)	A.TULINSKY,T.J.RYDEL,K.G.RAVICHANDRAN, R.HUBER,W.BODE	6/93
4HTC	THROMBIN/HIRUDIN(VARIANT 2)	A.TULINSKY,T.J.RYDEL,W.BODE,R.HUBER	6/93
1THR	THROMBIN/HIRULLIN	X.QIU,M.YIN,K.P.PADMANABHAN,J.L.KRSTENANSKY, A.TULINSKY	6/93

Newly Deposited Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1THS	THROMBIN/MDL-28050	X.QIU,M.YIN,K.P.PADMANABHAN,J.L.KRSTENANSKY, A.TULINSKY	6/93
1TPM	TISSUE-TYPE PLASMINOGEN ACTIVATOR (TYPE 1)(FINGER DMN)(NMR)	A.K.DOWNING	5/93
1TOP	TROPONIN C(CHICKEN)	M.SUNDARALINGAM	8/93
2TUN	TUMOR NECROSIS FACTOR-ALPHA MUTANT(A84V)	P.SALUDJIAN,T.PRANGE	10/93
1TBE	TETRAUBIQUITIN	W.J.COOK ET AL	10/93
1IFD	FD STRAIN OF INOVIRUS MAJOR COAT PROTEIN (FIBER)	D.A.MARVIN	2/92
2CAS	PARVOVIRUS(CANINE) CAPSID(STRAIN D, VIRAL PROTEIN 2)	H.WU,M.G.ROSSMANN	8/93
1DXI	D-XYLOSE ISOMERASE	H.RASMUSSEN,T.LA COUR,J.NYBORG,M.SCHULEIN	9/93
1ARD	AMINO TERMINAL ZINC FINGER DOMAIN OF YEAST TRANSCRIPTION FACTOR ADR1	R.C.HOFFMAN,R.X.XU,S.J.HORVATH,J.R.HERRIOTT, R.E.KLEVIT	10/93
1ARE	AMINO TERMINAL ZINC FINGER DOMAIN OF YEAST TRANSCRIPTION FACTOR ADR1	R.C.HOFFMAN,R.X.XU,S.J.HORVATH,J.R.HERRIOTT, R.E.KLEVIT	10/93
1ARF	AMINO TERMINAL ZINC FINGER DOMAIN OF YEAST TRANSCRIPTION FACTOR ADR1	R.C.HOFFMAN,R.X.XU,S.J.HORVATH,J.R.HERRIOTT, R.E.KLEVIT	10/93
1HLI	LOW-AFFINITY IGE RECEPTOR(HUMAN, LECTIN-HOMOLOGY DOMAIN)(MODEL)	E.A.PADLAN,B.A.HELM	6/93
1HLJ	LOW-AFFINITY IGE RECEPTOR(MURINE, LECTIN-HOMOLOGY DOMAIN)(MODEL)	E.A.PADLAN,B.A.HELM	6/93

STRUCTURE FACTOR ENTRIES

R1AZCSF	AZURIN(APO FORM)	E.N.BAKER,W.E.B.SHEPARD,R.L.KINGSTON	12/92
R1AZBSF	AZURIN(COPPER-REMOVED)	E.N.BAKER,W.E.B.SHEPARD	12/92
R1CLMSF	CALMODULIN(WILD TYPE)	M.SUNDARALAINGAM	1/93
R1CAYSF	CARBONIC ANHYDRASE II/ACETATE	K.HAKANSSON,C.BRIAND,V.ZAITSEV,Y.XUE,A.LILJAS	2/93
R2CBESF	CARBONIC ANHYDRASE II(APOENZYME)	K.HAKANSSON,M.CARLSSON,L.A.SVENSSON, A.LILJAS	6/92
R1RAYSF	CARBONIC ANHYDRASE II/AZIDE	B.M.JONSSON,K.HAKANSSON,A.LILJAS	4/93
R2CBDSF	CARBONIC ANHYDRASE II/BISULFITE	K.HAKANSSON,M.CARLSSON,L.A.SVENSSON, A.LILJAS	6/92
R1RAZSF	CARBONIC ANHYDRASE II/BROMIDE	B.M.JONSSON,K.HAKANSSON,A.LILJAS	4/93
R2CBCSF	CARBONIC ANHYDRASE II/FORMATE	K.HAKANSSON,M.CARLSSON,L.A.SVENSSON, A.LILJAS	6/92
R1CAZSF	CARBONIC ANHYDRASE II MUTANT(E106Q)/ ACETATE	K.HAKANSSON,C.BRIAND,V.ZAITSEV,Y.XUE, A.LILJAS	2/93
R2CBASF	CARBONIC ANHYDRASE II(PH 7.8)	K.HAKANSSON,M.CARLSSON,L.A.SVENSSON, A.LILJAS	6/92
R2CBBSF	CARBONIC ANHYDRASE II(PH 6.0)	K.HAKANSSON,M.CARLSSON,L.A.SVENSSON, A.LILJAS	6/92
R1RZASF	CARBONIC ANHYDRASE II(ZINC REPLACED WITH COBALT(II))	K.HAKANSSON,A.WEHNERT,A.LILJAS	5/93
R1RZBSF	CARBONIC ANHYDRASE II(ZINC REPLACED WITH COBALT(II),PH 6.0)	K.HAKANSSON,A.WEHNERT,A.LILJAS	5/93
R1RZCSF	CARBONIC ANHYDRASE II(ZINC REPLACED WITH COPPER(II))	K.HAKANSSON,A.WEHNERT,A.LILJAS	5/93
R1RZDSF	CARBONIC ANHYDRASE II(ZINC REPLACED WITH MANGANESE(II))	K.HAKANSSON,A.WEHNERT,A.LILJAS	5/93
R1RZESF	CARBONIC ANHYDRASE II(ZINC REPLACED WITH NICKEL(II))	K.HAKANSSON,A.WEHNERT,A.LILJAS	5/93
R135LSF	LYSOZYME (TURKEY)	K.HARATA	6/93
R1DMBSF	D-MALTODEXTRIN-BINDING PROTEIN	A.J.SHARFF,F.A.QUIOCHO	6/93
R3MONSF	MONELLIN(SERENDIPITY BERRY)	F.JIANG,L.TONG,S.-H.KIM	8/92

Newly Deposited Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
R1BBCSF	PHOSPHOLIPASE A2(HUMAN)	J.-P.WERY,R.W.SCHEVITZ,D.K.CLAWSON, J.L.BOBBITT,E.R.DOW,G.GAMBOA, T.GOODSON JR,R.B.HERMANN,R.M.KRAMER, D.B.MCCLURE,E.D.MIHELICH,J.E.PUTNAM, J.D.SHARP,D.H.STARK,C.TEATER,M.W.WARRICK, N.D.JONES	5/92
R1RGASF	RIBONUCLEASE T1/GUANYLIC ACID/GUANOSINE	I.ZEGERS,L.WYNS	6/93
R1TRESF	TRIOSEPHOSPHATE ISOMERASE (ESCHERICHIA COLI)	M.E.M.NOBLE,R.K.WIERENGA	4/93
R1TYPSF	TRYPANOTHIONE REDUCTASE/ GLUTATHIONYLDISULFIDE,NADP	S.BAILEY,W.N.HUNTER	6/93

NMR EXPERIMENTAL DATA ENTRIES

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
R1NORMR	NEUROTOXIN II(NMR,19 STRUCTURES)	A.P.GOLOVANOV,Y.N.UTKIN,A.L.LOMIZE,V.I.TSETLIN, A.S.ARSENIEV	4/93

BROOKHAVEN ORDER FORM

Name of User ______________________ Date ______________

Organization ______________________ Phone ______________

Address ______________________ Fax ______________

______________________ E-mail ______________

____

(Prices valid through September 30, 1994)

	Format	6250cpi	TK50	1/4"	8mm	4mm
DATAPRTP (available coordinate entries, bibliographic entries, and computer programs)	VAX/VMS *backup* VAX/VMS *copy* Unlabeled *ASCII* Unlabeled *EBCDIC* SGI/SUN/IBM/E&S UNIX *tar*	❑ $794 ❑ $794 ❑ $794 ❑ $794	❑ $1017 ❑ $1017	❑ $496	❑ $360	❑ $364
STRUCTURE FACTOR ENTRIES (experimental diffraction data)	Tape desired (NONST1,2,3,4...11TP) :__________________ (prices shown below are per tape desired)					
	VAX/VMS *backup* VAX/VMS *copy* Unlabeled *ASCII* Unlabeled *EBCDIC* SGI/SUN/IBM/E&S UNIX *tar*	❑ $413 ❑ $413 ❑ $413 ❑ $413	❑ $424 ❑ $424	❑ $418	❑ $360	❑ $364
CD-ROM (includes DATAPRTP and all Structure Factor Entries)	ISO 9660 ❑ $288					
PDBPGMTP (computer programs & miscellaneous files)	VAX/VMS *copy* SGI/SUN/IBM/E&S UNIX *tar*	❑ $413	❑ $424	❑ $418	❑ $360	❑ $364
NMRRS1TP (NMR experimental data entries)	VAX/VMS *backup* VAX/VMS *copy* Unlabeled *ASCII* Unlabeled *EBCDIC* SGI/SUN/IBM/E&S UNIX *tar*	❑ $413 ❑ $413 ❑ $413 ❑ $413	❑ $424 ❑ $424	❑ $418	❑ $360	❑ $364

TOTAL CHARGES

Tape or CD-ROM charges .... $ ____________

Foreign air mail charges ($19 per tape item mailed outside U.S. and Canada) .... $ ______@19.00
(CD-ROM excluded from $19 foreign air mail charges) (if applicable)

TOTAL COST .... $ ____________

PRINTED DOCUMENTATION REQUESTED (no charge)

- ❑ Atomic Coordinate and Bibliographic Entry Format Description for DATAPRTP
- ❑ Sources of Visual Aids for Macromolecular Structure
- ❑ Format Description for Each Structure Factor Entry
- ❑ Answers to Frequently Asked Questions (FAQ)
- ❑ Full Tables (Includes Complete Listings of PDB Holdings)
- ❑ Data Deposition Form
- ❑ Current Newsletter

INSTRUCTIONS FOR PLACING AN ORDER

(Prices valid until September 30, 1994)

(facsimile and phone orders not acceptable)

The Protein Data Bank ***MUST*** receive all three of the following items before service is provided (please send all required items together *via* mail -- facsimile and phone orders are not acceptable):

1. Completed order form;
2. Mailing label indicating exact shipping address; and
3. Payment (using one of the two options below):

☞ Check payable to Brookhaven National Laboratory in U.S. dollars and drawn on a U.S. bank. Foreign checks are not acceptable and will be returned.

☞ Original purchase order payable to Brookhaven National Laboratory. After your order is processed, you will be invoiced by Brookhaven National Laboratory.

A wire transfer is acceptable only ***AFTER*** we have received an original purchase order from your organization and your organization has been invoiced by Brookhaven. Once you have received Brookhaven's invoice, your bank may then send a wire transfer to:

Bank name	:	Morgan Guarantee Trust Company of New York
Account name	:	Brookhaven National Laboratory
Account number	:	076-51-912

Please mail (facsimile not acceptable) all required items to :

Protein Data Bank Orders
Chemistry Department, Building 555
Brookhaven National Laboratory
P.O. Box 5000
Upton, NY 11973-5000
USA

Affiliated Centers

Eleven affiliated centers offer DATAPRTP for distribution. These centers are members of the Protein Data Bank Service Association (PDBSA). Centers designated with an asterisk(*) distribute DATAPRTP on magnetic media; those without an asterisk are on-line DATAPRTP distributors.

CAN/SND
Canadian Scientific Numeric Data Base Service
Ottawa, Ontario, Canada
Roger Gough (613-993-3294)
cansnd@vm.nrc.ca

CAOS/CAMM
Dutch National Facility for Computer Assisted Chemistry
Nijmegen, The Netherlands
Jan Noordik (31-80-653386)
noordik@caos.caos.kun.nl

CINECA
NE Italy Interuniversity Computing Center
Caselecchio di Reno (BO), Italy
Salvatore Rago (39-51-598411)
argo@icineca.bitnet

EMBL
European Molecular Biology Laboratory
Heidelberg, Germany
Peter Rice (49-6221-387-247)
peter.rice@embl-heidelberg.de

****JAICI***
Japan Association for International Chemical Information
Tokyo, Japan
Hideaki Chihara (81-3-5978-3608)

NCSA
National Center for Supercomputing Applications
University of Illinois at Urbana-Champaign
Champaign, Illinois
Marcia Miller (217-244-0634)
mmiller@ncsa.uiuc.edu

****Osaka University***
Institute for Protein Research
Osaka, Japan
Yukiteru Katsube (81-6-877-5111 ext 3912)

Pittsburgh Supercomputing Center
Pittsburgh, Pennsylvania
Hugh Nicholas (412-268-4960)
nicholas@cpwpsca.bitnet

Prophet
BBN Systems and Technologies
a division of Bolt Beranek and Newman Inc.
Cambridge, Massachusetts
Carl Foeller (617-873-2669)
prophet-info@bbn.com

SDSC
San Diego Supercomputer Center
San Diego, California
Lynn Ten Eyck (619-534-8189)
teneyckl@sdsc.bitnet

SEQNET
Daresbury Laboratory
Warrington, United Kingdom
User Interface Group (44-925-603351)
uig@daresbury.ac.uk

Availability of PDB Full Tables

Full tables including complete listings of all PDB holdings are available from the PDB anonymous FTP and e-mail server or by normal mail upon request. Please see page 2 of the Brookhaven Order Form for requesting documentation.

To Contact PDB

Protein Data Bank
Chemistry Department, Building 555
Brookhaven National Laboratory
P.O. Box 5000
Upton, NY 11973-5000
USA

Telephone: +1 516-282-3629
Facsimile: +1 516-282-5751
e-mail:pdb@bnl.bitnet
or pdb@bnl.gov

Please include your telephone number, facsimile number, mailing address, and e-mail address in all correspondence.

PDB Staff

Enrique E. Abola
Frances C. Bernstein
Judith A. Callaway
Minette Cummings
Betty R. Deroski
Pamela A. Esposito
Arthur Forman
Laura A. Hildebrand
Thomas F. Koetzle
Patricia A. Langdon
Michael D. Libeson
John E. McCarthy
Nancy E. Oeder
Regina K. Shea
John G. Skora
Karen E. Smith
David R. Stampf, Acting Sr. Project Mgr.
Dejun Xue

Statement of Support

PDB is supported by a combination of Federal Government Agency funds (work supported by the U.S. National Science Foundation; the U.S. Public Health Service, National Institutes of Health, National Center for Research Resources, National Institute of General Medical Sciences, and National Library of Medicine; and the U.S. Department of Energy under contract DE-AC02-76CH00016) and user fees.

Protein Data Bank
Chemistry Department, Building 555
Brookhaven National Laboratory
P.O. Box 5000
Upton, NY 11973-5000
USA

First Class