Protein Data Bank

Quarterly Newsletter

Number 67 *January 1994*

January 1994 PDB Release

2327 full-release atomic coordinate entries (605 new additions)

2143	proteins, enzymes and viruses
156	DNA's
9	RNA's
9	tRNA's
10	carbohydrates

353 structure factor entries
31 NMR experimental entries

The total size of the atomic coordinate entry database is 678 Mbytes uncompressed.

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New Head for PDB

In the past two years, the number of entries in the Protein Data Bank has tripled. The electronic network has become the major mode of access, allowing entirely new possibilities. To head PDB in this time of major new challenges and existing opportunities, Brookhaven National Laboratory (BNL) has appointed Joel L. Sussman, a protein crystallographer and professor at the Weizmann Institute of Science in Israel.

Dr. Sussman's background is in structural and computational molecular biology, and his research focuses on structure and function of proteins related to the nervous system, such as acetylcholinesterase. He holds a joint appointment in Brookhaven's Chemistry and Biology Departments. This connection will aid him both in his continuing research and in leading the development of PDB, an organization which is becoming increasingly important not only for structural biology but also for much of biomedical science. During the coming year, Dr. Sussman will divide his time between BNL and the Weizmann Institute.

Joel's involvement with PDB began long before his recent appointment. Joel, Dr. Helen Berman, Dr. Walter Hamilton and others assisted in PDB's birth at a 1971 symposium at Cold Spring Harbor, where the scientific community first formally discussed the need and mechanism for ensuring accessibility of the known protein structures. This discussion led to the establishment of PDB at BNL under Walter's leadership and, following Walter's death, under Tom Koetzle. Tom recalls that over the years Joel has been both a depositor to, and a user of, the Data Bank, having contributed entries of nucleic acids including those of tRNA and several DNA's as well as protein structures for concanavalin A, avidin, acetylcholinesterase and their complexes. In addition, Joel was one of the early developers of methodology and programs on biological macromolecule refinement. For the past year, he has served on the PDB Advisory Board, representing the European Science Foundation Network for the Crystallography of Biological Macromolecules.

As head, Joel would like to elevate PDB beyond its initial goal of an information repository. As well as making the data even more accessible and speeding the deposition process for both the authors and processors, he would like PDB to evolve into an actual database, where users can ask questions across the full collection of structures instead of just about individual ones. He envisions PDB as a true international collaboration, receiving not only data but also a free flow of ideas from its growing community of users. The formation of a PDB User Group headed by Dr. Jane Richardson will help to further this goal (see article on page 3 pertaining to User Group).

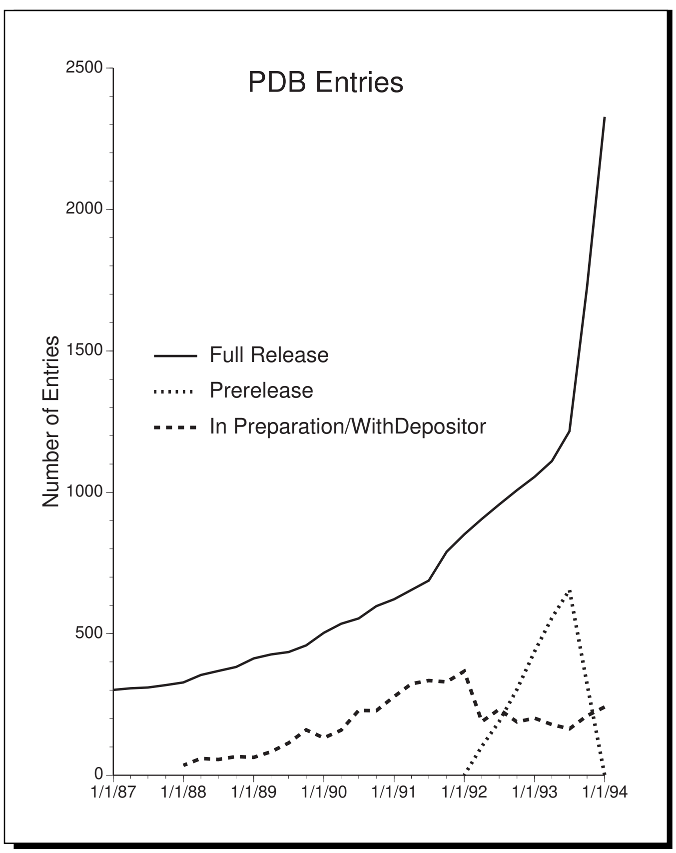
By facilitating the study of how nucleic acid sequences relate to the 3-D structures of their final protein products, Joel visualizes PDB locating itself at the crossroads between structural biology and the gene-sequencing work of the Human Genome Project.

Other Management Changes

David Stampf has been appointed Senior Project Manager and will assume responsibility for daily operations as well as continuing to head the software development group. Dr. Enrique Abola will continue to manage the scientific activities related to database production and will act as Science Coordinator for PDB.

January PDB Release Includes 605 New Full-Release Entries

An important milestone was achieved in January 1994 when PDB completed the task of converting to full-release form all entries previously distributed as prerelease. In July 1993 the PDB stopped preparing entries in prerelease form and a concerted effort to convert all prerelease entries to full release was begun. Since July 1993 PDB staff processed about 1500 entries and has since strived to remain current by releasing newly deposited entries in full-release form as soon as possible after deposition. The January 1994 release contains 605 additional coordinate entries, bringing the total being distributed to 2327.



This milestone marks the completion of the effort by PDB to address issues that arose in the late 1980's when a substantial fraction of the data deposited was awaiting processing and validation and was therefore unavailable to the user community. The figure below and to the left provides a historical view (from 1987) of the growth of the Data Bank. It also illustrates the strategy followed to bring PDB up-to-date. During 1992, the number of entries available to the community was significantly raised by the prerelease. There was also a marked decrease in the number of entries being processed or awaiting approval. Then in 1993 the number of full-release entries available rose very rapidly as prerelease was phased out. The turnaround time for entry release was improved from an average of nine months to the current three- to four-month time period. Although PDB returns entries to depositors for approval an average of thirty days after complete deposition, it may take another ninety days before PDB receives release approval and data is loaded onto the FTP (file transfer program) server. One of PDB's primary goals in 1994 is the reduction of this turnaround time.

Of equal importance is the installation of new procedures providing enhanced automation in data processing and significantly improving the quality of the data distributed by PDB. These procedures were needed to check and validate the large number of new data entries that were included in the October 1993 and January 1994 releases of the PDB.

The number of entries deposited with PDB continues to grow at an exponential rate. In 1993 a total of 940 entries were deposited. The number of depositions is projected to rise to 1200 in calendar year 1994.

Newsletter Availability

The PDB Newsletter is available from FTP, Gopher and Listserver archives as soon as it is prepared. Allowing for printing and mailing time, we expect this to be about four weeks sooner than a printed copy would reach you by mail. Availability of each new issue is announced on the Listserver (see article on page 6 pertaining to Listserver).

If you are satisfied receiving the PostScript® or ASCII version of the Newsletter and no longer wish to receive a printed copy, or if you know of copies that are being discarded because of obsolete addresses, please let us know electronically by sending a message to pdb@bnl.gov or by mail to our address on page 27. Printing and mailing fewer copies saves both time and trees.

Revised Newsletter Format Considered

PDB is considering eliminating the tables of newly released and newly deposited entries in future Newsletters.

All available and pending PDB entries, with newly released and newly deposited entries flagged, are listed in the Full Tables document. This document accompanies each order sent and is available on FTP in the **'pub'** subdirectory in both PostScript® and ASCII formats. A printed copy may be obtained upon request.

We would appreciate feedback from you about this possible change. Please send your response *via* e-mail to pdb@bnl.gov or by mail to our address on page 27.

PDB User Group

A User Group for the Protein Data Bank is currently being organized under the leadership of Jane S. Richardson of Duke University. A Coordinating Committee to represent the diverse spectrum of users will soon be named. The User Group aims to facilitate communication in both directions between PDB and all categories of its users, improving knowledge of what is already available or in progress, diagnosing problems quickly, and arriving collectively at the best ideas and innovations for the future. The User Group also intends to collect and make available various subsets and annotations of PDB entries for such purposes as teaching and structural analysis. Your input is solicited. Please let us know what type of user you are and what you consider priorities for the future. Please respond by e-mail to PDBusrgp@suna.biochem.duke.edu or by regular mail to Jane Richardson, PDB User Group, Box 3711 DUMC, Durham, NC 27710 USA.

New Distribution Directory Structure

As discussed on the PDB Listserver, the directory layout for entries has been changed. Instead of using tape01, tape02, ..., tapeNN, we are now grouping entries by the middle two characters of the ident code. So, entry file pdb1abc.ent will be found in ***/compressed_files/ab** and ***/uncompressed_files/ab**.

This change was mandated due to difficulty users were having finding entries using the old tapeNN layout method. Now, once an ident code is known it is simple to find an entry. If an ident code is not known, the index files provide a quick means of finding it.

Full Entry Datestamps

All entry files will now be datestamped to show when they were released. This datestamp will not change in subsequent releases unless data in a file changes. Entries will continue to have a REVDAT 0 record as well.

All entries released through the Jan94 full release will be given a January 31, 1994 datestamp.

Access to PDB using 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.

FTP Access Help

Useful FTP commands:

ascii	- Set file transfer type to network ASCII.
binary	- Set file transfer type to support binary image transfer.
bye	- Terminate FTP session with remote server and exit FTP.
cd remote-directory	- Change working directory on remote machine to remote-directory.
cdup	- Change remote machine working directory to parent of current remote machine working directory.
dir [remote-directory] [local-file]	- Print listing of directory contents in directory, remote-directory, and, optionally, placing output in local-file.
get remote-file [local-file]	- Retrieve remote-file and store it on local machine.
help [command]	- Print informative message about meaning of command.
ls [remote-directory] [local-file]	- Print listing of contents of directory on remote machine.
put local-file [remote-file]	- Store local file on remote machine.
pwd	- Print name of current working directory on remote machine.
quit	- Synonym for bye.

Useful directory and file descriptions:

directory: all_entries	- Contains up-to-date full-release entries.
	- All entries together in single directory (not divided by 2-character code).
directory: crystallographer_info	- Informational files of interest to crystallographers.
directory: current_release	- Contains up-to-date full-release entries.
	- Made up of last quarterly full-release entries and updated and additional full-release entries.
	- Always current full release (last quarterly plus updates).
	- Divided into 2-character directories.
directory: fullrelease	- Contains last quarterly full-release entries.
	- Divided into 2-character directories.
directory: index	- Index files that cross-reference ident codes to various parameters.
directory: new_uploads	- Uploads to PDB accepted here.
directory: newly_released	- Contains all updated and additional full-release entries since last quarterly full-release entries.
	- Divided into 2-character directories.

directory: newsletter	- PDB Newsletters and Full Tables.
directory: nmr_restraints	- NMR restraint files.
directory: pub	- Various useful items.
directory: structure_factors	- Contains last quarterly full-release structure factor files.
file: README	- FTP login message and README file.
file: advisory.doc	- PDB Advisory Notice. This notice should be signed and returned if you intend to download files.
file: contents.lis (same as ls-lR)	- Listing of files and directories on FTP.
file: datestamp.txt	- Description of datestamping method used for entry files.
file: expert.txt	- Quick instructions for FTP experts.
file: ftp.hlp	- Help on using FTP.
file: how2dnld.txt	- Information on how to download file.
file: how2find.txt	- Instructions on how to find a file (entry).
file: how2upld.txt	- Information on how to upload file.

How to Download Files from PDB using FTP

Once you are logged into PDB using FTP, you can download files to your computer using the “get” command. This example shows how you can download a file named oct93newsletter.txt to your computer.

ftp to pdb.pdb.bnl.gov

do not use rsh, rlogin or telnet -- they won’t work

```
prompt> ftp -n pdb.pdb.bnl.gov

Connected to pdb.pdb.bnl.gov.
220-
 PDB Network Login to <pdb>
220 pdb.pdb.bnl.gov FTP server ready.
Remote system type is UNIX.
Using binary mode to transfer files.

ftp> user

(username) anonymous
331 Guest login ok, type your name as password.

Password: ********
230-

.......................................................................
 Welcome to the PDB ANONYMOUS FTP account. Unauthorized access to this
 computer system is prohibited.

 Please limit the number of files you download each day. If abused,
 access to this service will be restricted as needed. If you have not
 done so, please complete and return the advisory notice (advisory.doc).
.......................................................................
   ... rest of README deleted ...


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

do a listing to see what’s at the top level of the FTP directory

```
ftp> ls -l

200 PORT command successful.
150 Opening ASCII mode data connection for ‘/bin/ls’.
total 2402
-rw-r--r--  1 root  sys        0 Mar  9 08:21 PRERELEASE_FILES_ARE_GONE
-rw-r--r--  1 root  sys     3492 Mar 12 10:21 README
-rw-r--r--  2 root  sys     1884 Mar  9 15:59 advisory.doc
drwxr-xr-x  4 root  sys      512 Jan 31 07:39 all_entries
drwxr-xr-x  2 root  user     512 Feb  3 23:01 bin
-rwxr-xr-x  1 root  sys  1199235 Mar 10 11:56 contents.lis
drwxr-xr-x  3 root  user    1024 Feb 14 08:51 crystallographer_info
drwxr-xr-x  4 root  sys      512 Jan 31 07:39 current_release
-rwxr-xr-x  1 root  sys      505 Mar 12 09:50 datestamp.txt
drwxr-xr-x  2 root  user     512 Feb 24  1993 etc
-rwxr-xr-x  1 root  sys     1935 Mar 10 11:29 expert.txt_NOT_READY
-rwxr-xr-x  1 root  sys      273 Mar 10 11:29 ftp.hlp_NOT_READY
drwxr-xr-x  4 root  sys      512 Jan 31 07:55 fullrelease
-rwxr-xr-x  1 root  sys      273 Mar 10 11:29 how2dnld.txt_NOT_READY
-rwxr-xr-x  1 root  sys      273 Mar 10 11:29 how2find.txt_NOT_READY
-rwxr-xr-x  1 root  sys      406 Mar 10 11:30 how2upld.txt_NOT_READY
drwxr-xr-x  2 root  sys      512 Mar 10 12:10 index
drwx-wx-wx  2 root  user   13312 Mar 12 10:18 new_uploads
drwxr-xr-x  4 root  sys      512 Jan 31 07:39 newly_released_EMPTY
drwxr-xr-x  5 root  sys      512 Mar 10 07:17 newsletter
drwxr-xr-x  2 root  sys      512 Feb  3 10:14 nmr_restraints
drwxr-xr-x  9 root  user     512 Mar 10 07:25 pub
drwxr-xr-x  3 root  user     512 Apr 30  1993 structure_factors
226 Transfer complete.
```

remember, you want file oct93newsletter.txt

it’s not visible here, but there is a “newsletter” directory

change to the “newsletter” directory

```
ftp> cd newsletter

250 CWD command successful.
```

do another listing of the directory

```
ftp> ls -l

200 PORT command successful.
150 Opening ASCII mode data connection for ‘/bin/ls’.
total 3
drwxr-xr-x   2 root     sys512   Mar 10 07:17 newsletter93apr
drwxr-xr-x   2 root     sys512   Mar 10 07:17 newsletter93jul
drwxr-xr-x   2 root     sys512   Mar 10 07:17 newsletter93oct
226 Transfer complete.
```

you still have to go into another directory

change to “newsletter93oct” directory

```
ftp> cd newsletter93oct

250 CWD command successful.
```

do another listing of the directory

```
ftp> ls -l

200 PORT command successful.
150 Opening ASCII mode data connection for '/bin/ls'.
total 2671
-rw-r--r--  1 root  sys     1251 Dec 22 14:37 oct93avail_on_tape.txt
-rw-r--r--  1 root  sys     4256 Dec 22 14:37 oct93biblio.txt
-rw-r--r--  1 root  sys     1939 Dec 22 14:37 oct93corrections.txt
-rw-r--r--  1 root  sys   144076 Dec 22 14:37 oct93entries.txt
-rw-r--r--  1 root  sys   772028 Dec 20 12:02 oct93full.ps
-rw-r--r--  1 root  sys   290398 Dec 22 14:18 oct93newsletter.ps
-rw-r--r--  1 root  sys    33336 Dec 22 14:05 oct93newsletter.txt
-rw-r--r--  1 root  sys     3236 Dec 22 14:37 oct93nmr.txt
-rw-r--r--  1 root  sys    10526 Dec 22 14:37 oct93onhold.txt
-rw-r--r--  1 root  sys    70671 Dec 22 14:38 oct93pending.txt
-rw-r--r--  1 root  sys     2294 Dec 22 14:38 oct93prog_misc.txt
-rw-r--r--  1 root  sys    30016 Dec 22 14:38 oct93struct_fact.txt
226 Transfer complete.
```

there's the file you want

go ahead and "get" it

```
ftp> get oct93newsletter.txt

local: oct93newsletter.txt remote: oct93newsletter.txt
200 PORT command successful.
150 Opening BINARY mode data connection for 'oct93newsletter.txt'
  (33336 bytes).
226 Transfer complete.
33336 bytes received in 0.10 seconds (325.55 Kbytes/s)
```

return to your local computer

```
ftp> quit

221 Goodbye.
```

check for the file

```
prompt> ls -l oct93newsletter.txt

-rw-r--r--  1 root  sys    33336 Mar 12 10:39 oct93newsletter.txt
```

view the file locally

```
prompt> head oct93newsletter.txt

......................................................................
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
...rest deleted...
```

the FTP program has many options

see the FTP manual page for more information

Send e-mail to skora@bnl.gov with questions.

How to Upload Files to PDB using FTP

Once you are logged into PDB using FTP, you can upload files from your computer to PDB using the "put" command. This example shows how you can upload a file named mydata123.dat to PDB.

ftp to pdb.pdb.bnl.gov

do not use rsh, rlogin or telnet -- they won't work

```
prompt> ftp -n pdb.pdb.bnl.gov

Connected to pdb.pdb.bnl.gov.
220-
 PDB Network Login to <pdb>
220 pdb.pdb.bnl.gov FTP server ready.
Remote system type is UNIX.
Using binary mode to transfer files.

ftp> user

(username) anonymous
331 Guest login ok, type your name as password.

Password: ********
230-
======================================================================
 Welcome to the PDB ANONYMOUS FTP account. Unauthorized access to this
 computer system is prohibited.

 Please limit the number of files you download each day. If abused,
 access to this service will be restricted as needed. If you have not
 done so, please complete and return the advisory notice (advisory.doc).

======================================================================
   ... rest of README deleted ...


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

do a listing to see what's at the top level of the FTP directory

```
ftp> ls -l

200 PORT command successful.
150 Opening ASCII mode data connection for '/bin/ls'.
total 2402
-rw-r--r--  1 root  sys        0 Mar  9 08:21 PRERELEASE_FILES_ARE_GONE
-rw-r--r--  1 root  sys     3492 Mar 12 10:21 README
-rw-r--r--  2 root  sys     1884 Mar  9 15:59 advisory.doc
drwxr-xr-x  4 root  sys      512 Jan 31 07:39 all_entries
drwxr-xr-x  2 root  user     512 Feb  3 23:01 bin
-rwxr-xr-x  1 root  sys  1199235 Mar 10 11:56 contents.lis
```

```
drwxr-xr-x  3 root  user    1024 Feb 14 08:51 crystallographer_info
drwxr-xr-x  4 root  sys      512 Jan 31 07:39 current_release
-rwxr-xr-x  1 root  sys      505 Mar 12 09:50 datestamp.txt
drwxr-xr-x  2 root  user     512 Feb 24  1993 etc
-rwxr-xr-x  1 root  sys     1935 Mar 10 11:29 expert.txt_NOT_READY
-rwxr-xr-x  1 root  sys      273 Mar 10 11:29 ftp.hlp_NOT_READY
drwxr-xr-x  4 root  sys      512 Jan 31 07:55 fullrelease
-rwxr-xr-x  1 root  sys      273 Mar 10 11:29 how2dnld.txt_NOT_READY
-rwxr-xr-x  1 root  sys      273 Mar 10 11:29 how2find.txt_NOT_READY
-rwxr-xr-x  1 root  sys      406 Mar 10 11:30 how2upld.txt_NOT_READY
drwxr-xr-x  2 root  sys      512 Mar 10 12:10 index
drwx-wx-wx  2 root  user   13312 Mar 12 10:18 new_uploads
drwxr-xr-x  4 root  sys      512 Jan 31 07:39 newly_released_EMPTY
drwxr-xr-x  5 root  sys      512 Mar 10 07:17 newsletter
drwxr-xr-x  2 root  sys      512 Feb  3 10:14 nmr_restraints
drwxr-xr-x  9 root  user     512 Mar 10 07:25 pub
drwxr-xr-x  3 root  user     512 Apr 30  1993 structure_factors
226 Transfer complete

.
```

see the directory named "new_uploads"?

that's where you need to go

change to "new_uploads" directory

```
ftp> cd new_uploads

250 CWD command successful.
```

do a listing of the directory

```
ftp> ls -l

200 PORT command successful.
150 Opening ASCII mode data connection for '/bin/ls'.
cannot access directory.
total 26
226 Transfer complete.
```

you cannot view the files in this directory

you can only "put" files here

go ahead and "put" your file

```
ftp> put mydata123.dat

local: mydata123.dat remote: mydata123.dat
200 PORT command successful.


150 Opening BINARY mode data connection for 'mydata123.dat'.
226 Transfer complete.
373227 bytes sent in 0.00 seconds (6835.94 Kbytes/s)
ftp>
```

return to your local computer

```
ftp> quit

221 Goodbye.
```

the FTP program has many options

see the FTP manual page for more information

Send e-mail to skora@bnl.gov with questions.

Access to PDB using Listserver

PDB has a mailing list devoted to discussions concerning its operation, contents and access to the Data Bank.

If you would like to subscribe, please send e-mail to:

LISTSERV@PDB.PDB.BNL.GOV

with the message:

subscribe PDB-L Firstname Lastname

To find out what you can do with this mailing list, send e-mail to the same address (LISTSERV@PDB.PDB.BNL.GOV) with the one-line message of:

help

To send a message to all PDB-L subscribers, e-mail the message to:

PDB-L@PDB.PDB.BNL.GOV

Access to PDB using 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 quickly and easily from PDB.

As a Gopher client, you can navigate through a hierarchy of directories and documents or ask an index server to return a list of all documents that contain one or more specified words.

You can choose "The PDB Anonymous FTP" after reaching PDB's Gopher server in order to search and download the same information and coordinate files as through FTP.

Alternatively, you can select "An (almost) full-text search of the PDB Bibliographic Headers", in order to search PDB using any keyword, such as an ident code, author or compound name.

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/

Information for setting up an Internet Gopher client including source files for different machines is available from anonymous FTP at **boombox.micro.umn.edu (134.84.132.2)** under the directory /**pub**/**gopher**.

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

Call for Sequences of Structures to Predict

To all protein crystallographers and NMR spectroscopists:

Methods for obtaining information about protein structure from sequence appear to be advancing rapidly. But just what can these methods currently deliver? A meeting to assess the state of the art is being organized by CARB (University of Maryland and NIST), Lawrence Livermore National Laboratory and Sandia National Laboratory, with additional generous financial support from NIST. Modelers will be asked to make blind predictions of structures using comparative modeling, threading, or *ab initio* methods and deposit their structures before experimental reality is available. The aim is to have approximately ten structures predicted in each of these categories before the meeting (which will take place in Asilomar in December) to evaluate the predictions.

This will not work unless extensive help is obtained from the community of experimentalists. Seventeen prediction targets have so far been collected. This is a very good start, but more are needed. If you are working on a new protein structure and would like to have the structure predicted or you would like to obtain additional information, contact John Moult at CARB, University of Maryland Biotechnology Institute, 9600 Gudelsky Drive, Rockville, MD 20850 USA (telephone: 301-738-6241; facsimile: 301-738-6255; e-mail: jmoult@iris4.carb.nist.gov).

Distribution of Obsolete Entries

Over the years a number of PDB entries have been withdrawn by 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 with 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 entries 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 FTP, Gopher and Listserver 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.

New Programs Available from PDB

Christopher Marzec and Loren Day of the Public Health Research Institute in New York City have contributed two Fortran programs that are now included in PDB distributions. Program BREAKRING will generate pseudo-rotation parameters (q, P, S, Gamma) and the five bond lengths from the coordinates of the atoms in a five-membered ring. The program MAKERING will generate coordinates of the atoms in a five-membered ring from these pseudo-rotation parameters and the bond lengths.

These programs are available from FTP and Gopher in subdirectory **program_tape**. They are also included in distribution items DATAPRTP and PDBPGMTP. If you have any questions relating to these programs, please contact Dr. Loren Day at the Public Health Research Institute (telephone: 212-578-0828; e-mail: day@phri.nyu.edu).

Procheck Software Package

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, which was created by J. M. Thornton, M. W. MacArthur, R. A. Laskowski and D. S. Moss, performs evaluations of the stereochemical quality of protein structures.

To acquire a copy of Procheck, you must obtain the license agreement, copies of which are available from FTP, Gopher and Listserver archives 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, Building 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 by 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).

PDB-Shell Update

Version 1.3 of PDB-Shell, the Windows™ PDB browser, is included in the latest release of PDB on CD-ROM. Several new features requested by users have now been incorporated. Results of queries can be used to further narrow searches by using previous search results. Screens have been modified to improve readability and to improve reporting of errors. In addition, a number of options are available that permit PDB-Shell to access entry files using various directory/disk arrangements. The program is shipped with a default configuration that uses the new PDB directory structure.

Deposition Form and Guidelines for Deposition

A set of helpful guidelines to use when preparing an entry for submission to PDB is available from FTP. 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. The latest version of the Deposition Form is available from FTP in the /**pub** subdirectory. We are requesting that depositors discard all old versions of the Deposition Form (printed and/or electronic) and that they pick up the latest electronic version each time they are preparing data for deposition. Documents are available from FTP, Gopher and Listserver as well as in printed form upon request.

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 using FTP, e-mail, magnetic tape or disk. A Deposition Form and more information on depositing entries is available in the FTP directory /**pub** and from the Listserver archives. A printed copy of this document may also be obtained upon request. For additional information about the Deposition Form, see the preceding article.

Assignment of Ident Codes

Each entry in PDB is uniquely identified by a four-character ident code (also sometimes referred to as an accession code). Present PDB practice assigns ident codes without regard for the structure name. However, we recognize that many depositors would like to have ident codes that are related mnemonically to the names of their structures. Should you have a preference for a particular ident code, the PDB requests that you inform us about this on your Deposition Form. We promise that all reasonable suggestions will be considered. Of course, if the ident code that you are suggesting has already been used for an existing entry, then an alternative code will have to be assigned by PDB.

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.

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 a few days of submission. When the new procedures are implemented, further instructions will be available from FTP, Gopher and Listserver archives, as well as in future Newsletters.

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 and Full Tables document. Tables of all PDB entries can be obtained from FTP, Gopher and Listserver archives or by normal mail upon request.

In FTP and Gopher 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 document 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 using 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 and then reconnect to FTP 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 Listserver archives and Gopher are other methods to locate PDB ident codes. Please see detailed information about these services in other articles in this Newsletter. Finally, in some cases, journal articles reporting results of structural analyses of biological macromolecules provide their PDB ident codes.

CD-ROM Information

PDB releases are available on CD-ROM in *ISO 9660* format. The layout of files on the CD-ROM mirrors the PDB UNIX tape distribution and uses the aa, ab, ac, ..., zz subdirectories. The entry files are ASCII format and are readable by software able to process text files.

PDB-Shell, a facility for Windows™ users to access and display structures from the PDB database, is available on our CD-ROM. PDB-Shell allows the user to search the database for various criteria such as ident code, accession date, compound name and author (see article on page 7 on the latest PDB-Shell update).

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 Windows™ 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 additional 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 *ISO 9660* limitations on symbolic links, we were unable to provide a directory on the CD-ROMs pointing to all entry files in the subdirectories. Therefore, we recommend you do so from a directory on one of your local disk filesystems. Further detailed instructions are included with each CD-ROM order.

Newly Released Entries

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1ADN	N-ADA10	L.C.MYERS,G.L.VERDINE,G.WAGNER	9/93
1ENT	ENDOTHIAPEPSIN/INHIBITOR PD130328	T.L.BLUNDELL,C.G.DEALWIS	3/92
1EED	ENDOTHIAPEPSIN/PD125754	T.L.BLUNDELL,C.FRAZAO,J.B.COOPER	6/92
1APW	ACID PROTEINASE(PENICILLIUM JANTHINELLUM)/ (IVA)-VAL-VAL-DIFLUOROSTATINE	A.R.SIELECKI,M.N.G.JAMES	12/91
1APV	ACID PROTEINASE(PENICILLIUM JANTHINELLUM)/ (IVA)-VAL-VAL-DIFLUOROSTATONE	A.R.SIELECKI,M.N.G.JAMES	12/91
1APT	ACID PROTEINASE(PENICILLIUM JANTHINELLUM)/ (IVA)-VAL-VAL-LYSTA-O-ET	A.R.SIELECKI,M.N.G.JAMES	12/91
1APU	ACID PROTEINASE(PENICILLIUM JANTHINELLUM)/ (IVA)-VAL-VAL-STA-O-ET	A.R.SIELECKI,M.N.G.JAMES	12/91
1ACA	ACYL-COENZYME A BINDING PROTEIN/PALMITOYL-COENZYME A	B.B.KRAGELUND,K.V.ANDERSEN,J.C.MADSEN,J.KNUDSEN,F.M.POULSEN	11/92
1ADD	ADENOSINE DEAMINASE/1-DEAZA-ADENOSINE	D.K.WILSON,F.A.QUIOCHO	12/92
1AKE	ADENYLATE KINASE/INHIBITOR AP5A	C.W.MUELLER,G.E.SCHULZ	11/91
2CWG	AGGLUTININ(ISOLECTIN 1)/T-5 SIALOGLYCOPEPTIDE OF GLYCOPHORIN A	C.S.WRIGHT	1/93
1ADF	ALCOHOL DEHYDROGENASE (ADH)	H.LI,W.A.HALLOWS,J.S.PUNZI,V.E.MARQUEZ,H.L.CARRELL,K.W.PANKIEWICZ, K.A.WATANABE,B.M.GOLDSTEIN	10/93
1ADG	ALCOHOL DEHYDROGENASE (ADH)	H.LI,W.A.HALLOWS,J.S.PUNZI,V.E.MARQUEZ,H.L.CARRELL,K.W.PANKIEWICZ, K.A.WATANABE,B.M.GOLDSTEIN	10/93
3HUD	ALCOHOL DEHYDROGENASE(BETA-1 ISOENZYME)	T.D.HURLEY,W.F.BOSRON,J.A.HAMILTON,L.M.AMZEL	1/93
2OXI	ALCOHOL DEHYDROGENASE(HOLO,LIVER)/NADH/DMSO	S.AL-KARADAGHI,E.S.CEDERGREN-ZEPPEZAUER	11/93
1HDX	ALCOHOL DEHYDROGENASE(BETA-1 ISOENZYME)/NAD(H)/ CYCLOHEXANOL	T.D.HURLEY,L.M.AMZEL	10/93
1HDY	ALCOHOL DEHYDROGENASE(BETA-2 ISOENZYME)/ NAD+/4-IODOPURAZOLE	T.D.HURLEY,L.M.AMZEL	10/93
1HDZ	ALCOHOL DEHYDROGENASE MUTANT(R47G)/NAD+	T.D.HURLEY,L.M.AMZEL	10/93
1ABN	ALDOSE REDUCTASE MUTANT(C298S)/NADPH	D.W.BORHANI,T.M.HARTER,J.M.PETRASH	9/92
1ALK	ALKALINE PHOSPHATASE	E.E.KIM,W.WYCKOFF	3/93
1APA	ALPHA POKEWEED ANTIVIRAL PROTEIN	H.AGO,J.KATAOKA,H.TSUGE,N.HABUKA,E.INAGAKI,M.NOMA,M.MIYANO	9/93
1AVH	ANNEXIN V(HEXAGONAL)	R.HUBER,R.BERENDES,A.BURGER,M.SCHNEIDER,A.KARSHIKOV,H.LUECKE, J.ROEMISCH,E.PAQUES	10/91
1AVR	ANNEXIN V(RHOMBOHEDRAL)	R.HUBER,R.BERENDES,A.BURGER,M.SCHNEIDER,A.KARSHIKOV,H.LUECKE, J.ROEMISCH,E.PAQUES	10/91
1AEP	APOLIPOPHORIN-III	H.HOLDEN	11/92
1ARQ	ARC REPRESSOR	A.M.J.J.BONVIN,H.VIS,M.J.M.BURGERING,J.N.BREG,R.BOELENS,R.KAPTEIN	6/93
1ARR	ARC REPRESSOR	A.M.J.J.BONVIN,H.VIS,M.J.M.BURGERING,J.N.BREG,R.BOELENS,R.KAPTEIN	6/93
1ASQ	ASCORBATE OXIDASE/AZIDE	A.MESSERSCHMIDT,H.LUECKE,R.HUBER	11/92
1ASP	ASCORBATE OXIDASE/PEROXIDE	A.MESSERSCHMIDT,H.LUECKE,R.HUBER	11/92
1ASO	ASCORBATE OXIDASE(REDUCED)	A.MESSERSCHMIDT,H.LUECKE,R.HUBER	11/92
1MAQ	ASPARTATE AMINOTRANSFERASE	V.N.MALASHKEVICH,J.N.JANSONIUS	9/93
1TAR	ASPARTATE AMINOTRANSFERASE	E.HOHENESTER,J.N.JANSONIUS	10/93
1TAS	ASPARTATE AMINOTRANSFERASE	E.HOHENESTER,J.N.JANSONIUS	10/93
1MAP	ASPARTATE AMINOTRANSFERASE	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 PYRIDOXAL-5'-PHOSPHATE FORM/MALEATE	J.JAEGER,J.N.JANSONIUS	9/93
1ASN	ASPARTATE AMINOTRANSFERASE PYRIDOXAL-5'-PHOSPHATE FORM/SULFATE	J.JAEGER,J.N.JANSONIUS	9/93
2AT2	ASPARTATE TRANSCARBAMYLASE	R.C.STEVENS,K.M.REINISCH,W.N.LIPSCOMB	7/92
1RAA	ASPARTATE TRANSCARBAMYLASE(T STATE)/CTP (REFINEMENT 1)	R.P.KOSMAN,J.E.GOUAUX,W.N.LIPSCOMB	8/92
1RAB	ASPARTATE TRANSCARBAMYLASE(T STATE)/CTP (REFINEMENT 2)	R.P.KOSMAN,J.E.GOUAUX,W.N.LIPSCOMB	8/92
1RAC	ASPARTATE TRANSCARBAMYLASE(T STATE)/CTP (REFINEMENT 3)	R.P.KOSMAN,J.E.GOUAUX,W.N.LIPSCOMB	8/92
1RAD	ASPARTATE TRANSCARBAMYLASE(T STATE)/CTP (REFINEMENT 4)	R.P.KOSMAN,J.E.GOUAUX,W.N.LIPSCOMB	8/92
1RAE	ASPARTATE TRANSCARBAMYLASE(T STATE)/CTP (REFINEMENT 5)	R.P.KOSMAN,J.E.GOUAUX,W.N.LIPSCOMB	8/92
1RAF	ASPARTATE TRANSCARBAMYLASE(T STATE)/CTP (REFINEMENT 6)	R.P.KOSMAN,J.E.GOUAUX,W.N.LIPSCOMB	8/92
1RAG	ASPARTATE TRANSCARBAMYLASE(T STATE)/CTP (REFINEMENT 7)	R.P.KOSMAN,J.E.GOUAUX,W.N.LIPSCOMB	8/92
1RAH	ASPARTATE TRANSCARBAMYLASE(T STATE)/CTP (REFINEMENT 8)	R.P.KOSMAN,J.E.GOUAUX,W.N.LIPSCOMB	8/92
1RAI	ASPARTATE TRANSCARBAMYLASE(T STATE)/CTP (REFINEMENT 9)	R.P.KOSMAN,J.E.GOUAUX,W.N.LIPSCOMB	8/92
1AVE	AVIDIN(APO-PROTEIN)	L.PUGLIESE,A.CODA,M.MALCOVATI,M.BOLOGNESI	3/93
1AVD	AVIDIN/BIOTIN	L.PUGLIESE,A.CODA,M.MALCOVATI,M.BOLOGNESI	3/93
1AIZ	AZURIN(CADMIUM FORM)	E.N.BAKER,B.F.ANDERSON,K.A.BLACKWELL	11/93
4AZU	AZURIN(PH 5.5)	H.NAR,A.MESSERSCHMIDT,R.HUBER	6/91
5AZU	AZURIN(PH 9.0)	H.NAR,A.MESSERSCHMIDT,R.HUBER	6/91
1BAC	BACTERIORHODOPSIN(7-HELIX BUNDLE,ALL-TRANS RETINAL)	K.C.CHOU,L.CARLACCI,G.M.MAGGIORA,L.A.PARODI,M.W.SCHULZ	7/92
1BAD	BACTERIORHODOPSIN(7-HELIX BUNDLE,13-CIS RETINAL)	K.C.CHOU,L.CARLACCI,G.M.MAGGIORA,L.A.PARODI,M.W.SCHULZ	7/92
1BHA	BACTERIORHODOPSIN(PROTEOLYTIC FRAGMENT 1-71 (NMR,12 STRUCTURES)	K.V.PERVUSHIN,V.Y.OREKHOV,A.I.POPOV,L.Y.MUSINA,A.S.ARSENIEV	10/93
1BHB	BACTERIORHODOPSIN(PROTEOLYTIC FRAGMENT 1-71 (NMR,12 STRUCTURES)	V.Y.OREKHOV,K.V.PERVUSHIN,A.I.POPOV,L.Y.MUSINA,A.S.ARSENIEV	10/93
1BRN	BARNASE/DNA(CGAC)	A.M.BUCKLE,A.R.FERSHT	11/93
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

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
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
1APO	BLOOD COAGULATION FACTOR X N-TERMINAL EGF-LIKE MODULE(NMR,13 STRUCTURES)	M.ULLNER,M.SELANDER,E.PERSSON,J.STENFLO,T.DRAKENBERG,O.TELEMAN	4/92
1ABT	BUNGAROTOXIN(ALPHA)	V.J.BASUS,G.SONG,E.HAWROT	11/93
2BBM	CALMODULIN/CALMODULIN-BINDING DMN OF RABBIT SKELETAL MYOSIN LT CHAIN KINASE(NMR)	G.M.CLORE,A.BAX,M.IKURA,A.M.GRONENBORN	7/92
2BBN	CALMODULIN/CALMODULIN-BINDING DMN OF RABBIT SKELETAL MYOSIN LT CHAIN KINASE(NMR)	G.M.CLORE,A.BAX,M.IKURA,A.M.GRONENBORN	7/92
1CTP	CAMP-DEPENDENT PROTEIN KINASE(CATALYTIC SUBUNIT)	R.KARLSSON,J.ZHENG,N.H.XUONG,S.S.TAYLOR,J.M.SOWADSKI	4/93
1CIL	CARBONIC ANHYDRASE	G.M.SMITH,R.S.ALEXANDER,D.W.CHRISTIANSON,B.M.MCKEEVER, G.S.PONTICELLO,J.P.SPRINGER,W.C.RANDALL,J.J.BALDWIN,C.N.HABECKER	10/93
1CIN	CARBONIC ANHYDRASE	G.M.SMITH,R.S.ALEXANDER,D.W.CHRISTIANSON,B.M.MCKEEVER, G.S.PONTICELLO,J.P.SPRINGER,W.C.RANDALL,J.J.BALDWIN,C.N.HABECKER	10/93
1CIM	CARBONIC ANHYDRASE	G.M.SMITH,R.S.ALEXANDER,D.W.CHRISTIANSON,B.M.MCKEEVER, G.S.PONTICELLO,J.P.SPRINGER,W.C.RANDALL,J.J.BALDWIN,C.N.HABECKER	10/93
1CRA	CARBONIC ANHYDRASE II/1,2,4-TRIAZOLE	S.MANGANI,A.LILJAS	10/92
4CAC	CARBONIC ANHYDRASE II FORM C(PH6)	M.LINDAHL,D.HABASH,S.HARROP,D.R.HELLIWELL,A.LILJAS	9/91
5CAC	CARBONIC ANHYDRASE II FORM C/HSO3 ANION	M.LINDAHL,D.HABASH,S.HARROP,D.R.HELLIWELL,A.LILJAS	3/92
1CAO	CARBONIC ANHYDRASE II/HYDROGEN SULFIDE	S.MANGANI,K.HAKANSSON	7/92
1CAN	CARBONIC ANHYDRASE II/NITRATE	S.MANGANI,K.HAKANSSON	7/92
1CVC	CARBONIC ANHYDRASE II MUTANT(H94D)	J.A.IPPOLITO,D.W.CHRISTIANSON	9/93
1CBX	CARBOXYPEPTIDASE A/L-BENZYLSUCCINATE	S.MANGANI,P.CARLONI,P.ORIOLI	10/91
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
7CPA	CARBOXYPEPTIDASE A/ZFVP(O)F	H.KIM,W.N.LIPSCOMB	5/91
8CPA	CARBOXYPEPTIDASE A/ZAGP(O)F	H.KIM,W.N.LIPSCOMB	5/91
2CCX	CARDIOTOXIN CTX IIB(NMR,20 STRUCTURES)	J.O'CONNELL,K.WUTHRICH	2/93
1CVO	CARDIOTOXIN V(NMR)	A.K.SINGHAL,K.-Y.CHIEN,W.-G.WU,G.S.RULE	4/93
1CGP	CATABOLITE GENE ACTIVATOR PROTEIN/DNA	S.C.SCHULTZ,G.C.SHIELDS,T.A.STEITZ	8/91
1LYA	CATHEPSIN D(NATIVE)	E.T.BALDWIN,T.N.BHAT,S.GULNIK,J.W.ERICKSON	4/93
1LYB	CATHEPSIN D/PEPSTATIN A	E.T.BALDWIN,T.N.BHAT,S.GULNIK,J.W.ERICKSON	4/93
1CDB	DOMAIN 1 OF HUMAN CD2 (HU-SCD2=105=)	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
1CD8	CD8(HUMAN)	D.J.LEAHY,R.AXEL,W.A.HENDRICKSON	1/92
1TML	CELLULASE E2(CATALYTIC DOMAIN)/LIGAND	M.SPEZIO,D.B.WILSON,P.A.KARPLUS	6/93
1CIA	TYPE III CHLORAMPHENICOL ACETYLTRANSFERASE (CAT) MUTANT(H195Q)	A.G.W.LESLIE,M.R.GIBBS	7/93
1CHB	CHOLERA TOXIN B-PENTAMER (CHOLERAGEN)	E.A.MERRITT,F.VAN DEN AKKAR,W.G.J.HOL	9/93
121P	C-H-RAS P21 PROTEIN/GPPCP	U.KRENGEL,K.SCHEFFZEK,A.SCHERER,W.KABSCH,A.WITTINGHOFER,E.F.PAI	6/91
221P	C-H-RAS P21 PROTEIN MUTANT(D38E)/GPPNP	U.KRENGEL,A.SCHERER,W.KABSCH,A.WITTINGHOFER,E.F.PAI	6/91
821P	C-H-RAS P21 PROTEIN MUTANT(G12P)/GPPNHP	A.J.SCHEIDIG,U.KRENGEL,E.F.PAI,W.KABSCH,A.WITTINGHOFER,R.S.GOODY	3/93
421P	C-H-RAS P21 PROTEIN MUTANT(G12R)/GPPNP	U.KRENGEL,J.JOHN,A.SCHERER,W.KABSCH,A.WITTINGHOFER,E.F.PAI	6/91
521P	C-H-RAS P21 PROTEIN MUTANT(G12V)/GTP	I.SCHLICHTING,U.KRENGEL,W.KABSCH,A.WITTINGHOFER,E.F.PAI	6/91
621P	C-H-RAS P21 PROTEIN MUTANT(Q61H)/GPPNP	U.KRENGEL,A.SCHERER,W.KABSCH,A.WITTINGHOFER,E.F.PAI	6/91
721P	C-H-RAS P21 PROTEIN MUTANT(Q61L)/GPPNP	U.KRENGEL,A.SCHERER,W.KABSCH,A.WITTINGHOFER,E.F.PAI	6/91
1YPC	CHYMOTRYPSIN INHIBITOR 2 (CI2) SER>ALA AND GLU>ALA MUTANT	Y.HARPAZ,N.ELMASRY,A.R.FERSHT,K.HENRICK	10/93
1YPB	CHYMOTRYPSIN INHIBITOR 2 (CI2)GLU33>ALA, GLU34>ALA AND SER31>GLY MUTANT	Y.HARPAZ,N.ELMASRY,A.R.FERSHT,K.HENRICK	10/93
1YPA	CHYMOTRYPSIN INHIBITOR 2(CI2)GLU33>ALA, GLU34>ALA AND SER31>ALA MUTANT	Y.HARPAZ,N.ELMASRY,A.R.FERSHT,K.HENRICK	10/93
1COA	CHYMOTRYPSIN INHIBITOR 2 MUTANT(I76V)	S.E.JACKSON,M.MORACCI,N.ELMASRY,C.M.JOHNSON,A.R.FERSHT	5/93
1CCD	CLARA CELL 17 KDA PROTEIN(RAT)	T.C.UMLAND,S.SWAMINATHAN,W.FUREY,G.SINGH,J.PLETCHER,M.SAX	9/91
1CON	CONCANAVALIN A(CADMIUM SUBSTITUTED FOR MANGANESE)	J.H.NAISMITH,J.HABASH,S.J.HARROP,J.R.HELLIWELL,W.N.HUNTER, A.J.KALB(GILBOA),J.YARIV,T.C.M.WAN,S.WEISGERBER	3/93
1TCH	MU-CONOTOXIN GIIIA(INACTIVE ANALOG) (R13A)(NMR)	J.-M.LANCELIN,D.KOHDA,F.INAGAKI	12/92
1TCJ	MU-CONOTOXIN GIIIA(NMR)	D.KOHDA,J.-M.LANCELIN,F.INAGAKI,K.WAKAMATSU	12/92
1TCG	MU-CONOTOXIN GIIIA(NMR)	D.KOHDA,J.-M.LANCELIN,F.INAGAKI,K.WAKAMATSU	12/92
1TCK	MU-CONOTOXIN GIIIA(INACTIVE ANALOG) (R13A)(NMR)	J.-M.LANCELIN,D.KOHDA,F.INAGAKI	12/92
1OMC	OMEGA-CONOTOXIN GVIA(NMR,21 STRUCTURES)	J.H.DAVIS,E.K.BRADLEY,G.P.MILJANICH,L.NADASDI,J.RAMACHANDRAN, V.J.BASUS	4/93
1CBN	CRAMBIN	M.M.TEETER,S.M.ROE,N.H.HEO	10/91
1CGT	CYCLODEXTRIN GLYCOSYLTRANSFERASE	C.KLEIN,G.E.SCHULZ	6/92
1CDG	CYCLODEXTRIN GLYCOSYLTRANSFERASE	C.L.LAWSON,R.VAN MONTFORT,B.V.STROKOPYTOV, K.H.KALK,H.J.ROZEBOOM,B.W.DIJKSTRA	8/93
1CGU	CYCLODEXTRIN GLYCOSYLTRANSFERASE MUTANT(D229A)	C.KLEIN,J.HOLLENDER,H.BENDER,G.E.SCHULZ	6/92
1CYA	CYCLOPHILIN A/CYCLOSPORIN A(NMR,21 STRUCTURES)	S.W.FESIK	2/92
1CYB	CYCLOPHILIN/CYCLOSPORIN A(NMR,20 STRUCTURESS)	S.W.FESIK	2/92
2CYS	CYCLOSPORIN A/CYCLOPHILIN(NMR,ENERGY MINIMIZED STRUCTURE)	C.WEBER,G.WIDER,B.VON FREYBERG,R.TRABER,W.BRAUN,H.WIDMER, K.WUTHRICH	3/92
1CEW	CYSTATIN	W.BODE,D.MUSIL,R.HUBER	4/93
1APC	CYTOCHROME B562(APO FORM)	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

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
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
1BBH	CYTOCHROME C'(CHROMATIUM VINOSUM)	Z.REN,D.E.MCREE	5/92
1CPT	CYTOCHROME P450TERP	C.A.HASEMANN,K.G.RAVICHANDRAN,J.A.PETERSON,J.DEISENHOFER	11/93
1CMP	RECOMBINANT YEAST CYTOCHROME C PEROXIDASE (CCP-MKT)	M.M.FITZGERALD,D.E.MCREE,M.J.CHURCHILL,D.B.GOODIN	11/93
1CMQ	RECOMBINANT YEAST CYTOCHROME C PEROXIDASE (CCP-MKT)	M.M.FITZGERALD,D.E.MCREE,M.J.CHURCHILL,D.B.GOODIN	11/93
1DTK	DENDROTOXIN K	K.BERNDT,P.GUNTERT,K.WUTHRICH	4/93
3DNI	DEOXYRIBONUCLEASE I	C.OEFNER,D.SUCK	8/92
2DNJ	DEOXYRIBONUCLEASE I/DNA(GCGATCGC)	A.LAHM,D.SUCK	8/92
1DNK	DEOXYRIBONUCLEASE I/DNA(GGTATACC)	S.A.WESTON,A.LAHM,D.SUCK	8/92
3DRC	DIHYDROFOLATE REDUCTASE	S.J.OATLEY,J.KRAUT	9/92
1DHJ	DIHYDROFOLATE REDUCTASE	K.A.BROWN,J.KRAUT	10/93
1DHI	DIHYDROFOLATE REDUCTASE	S.J.OATLEY,J.E.VILLAFRANCA,K.A.BROWN,J.KRAUT	10/93
1DRB	DIHYDROFOLATE REDUCTASE MUTANT(D27C)	C.DAVID,J.KRAUT	11/91
1DRA	DIHYDROFOLATE REDUCTASE MUTANT(D27E)	S.J.OATLEY,J.KRAUT	11/91
2DRC	DIHYDROFOLATE REDUCTASE MUTANT(W22F)	K.A.BROWN,J.KRAUT	6/91
1LVL	DIHYDROLIPOAMIDE DEHYDROGENASE/NAD+	A.MATTEVI,W.G.J.HOL	12/92
1BAL	DIHYDROLIPOAMIDE SUCCINYLTRANSFERASE(E3-BINDING DOMAIN)(NMR,AVERAGE STRUCTURE)	G.M.CLORE,M.A.ROBIEN,A.M.GRONENBORN	2/92
1BBL	DIHYDROLIPOAMIDE SUCCINYLTRANSFERASE(E3-BINDING DOMAIN)(NMR,MIN.AVE.STRUCTURE)	G.M.CLORE,M.A.ROBIEN,A.M.GRONENBORN	2/92
1DSB	DSBA(DISULFIDE BOND FORMATION FACILITATOR)	J.L.MARTIN,J.C.A.BARDWELL,J.KURIYAN	5/93
121D	DNA(CGCAAATTTGCG)/NETROPSIN	J.AYMAMI,M.COLL,L.TABERNERO,N.VERDAGUER,I.FITA	4/93
2DA8	DNA(GATATC)/[N-MECYS3,N-MECYS7]TANDEM (NMR,8 STRUCTURES)	K.J.ADDESS,J.S.SINSHEIMER,J.FEIGON	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
153D	DNA(CGAGAATT+GCG)	S.L.GINELL,J.VOJTECHOVSKY,B.GAFFNEY,R.JONES,H.M.BERMAN	12/93
132D	DNA(GCCGTTAACGGC) DUPLEX (INCLUDING HPAI RESTRICTION SITE)	S.-G.KIM,B.R.REID	6/93
1PRP	DNA(CGCGAATTCGCG)/PROPAMIDINE	C.M.NUNN,T.C.JENKINS,S.NEIDLE	7/93
139D	DNA(TTGGGGT)(NMR,4 STRUCTURES)	D.J.PATEL,Y.WANG	9/93
137D	DNA(GCGGGCCCGC)(ORTHORHOMBIC CRYSTAL)	B.RAMAKRISHNAN,M.SUNDARALINGAM	9/93
138D	DNA(GCGGGCCCGC)(HEXAGONAL CRYSTAL FORM)	B.RAMAKRISHNAN,M.SUNDARALINGAM	9/93
145D	DNA(Z-CONFORMATION)	G.P.SCHROTH,T.F.KAGAWA,P.S.HO	11/93
2D94	DNA(GGGCGCCC)	Z.SHAKKED,G.GUERSTEIN-GUZIKEVICH,M.EISENSTEIN,F.FROLOW, D.RABINOVICH	6/93
130D	DNA(CGC+GAATTCGCG)/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
1DA4	DNA(CTCTAGTGCTCAC)/CIS-PT(NH3) ('LOOP IN' MODEL) (NMR,2 STRUCTURES)	C.J.VAN GARDEREN,L.P.A.VAN HOUTE	1/93
1DA5	DNA(GTGAGCACTAGAG)/CIS-PT(NH3) ('LOOP OUT' MODEL) (NMR,2 STRUCTURES)	C.J.VAN GARDEREN,L.P.A.VAN HOUTE	1/93
1RVE	ECO RV ENDONUCLEASE	F.K.WINKLER	2/92
1EGL	EGLIN C(NMR, 25 STRUCTURES)	S.G.HYBERTS,M.S.GOLDBERG,T.F.HAVEL,G.WAGNER	9/93
1PPF	ELASTASE(HUMAN)/OVOMUCOID THIRD DOMAIN	W.BODE,A.-Z.WEI	10/91
1INC	ELASTASE(PORCINE,PANCREATIC)/BENZOXAZINONE INHIBITOR	E.MEYER	3/93
1JIM	ELASTASE(PORCINE,PANCREATIC)/HETEROCYCLIC INHIBITOR	E.MEYER	3/93
9EST	ELASTASE(PORCINE)/PEPTIDYL BENZOXALOSE	R.RADHAKRISHNAN,J.C.POWERS,E.F.MEYER JUNIOR	1/91
1PPG	ELASTASE/MEO-SMC-AAPV-CHLOROMETHYLKETONE	W.BODE,A.-Z.WEI	10/91
1HLE	ELASTASE INHIBITOR(HORSE LEUCOCYTE)	U.BAUMANN,W.BODE,R.HUBER,J.TRAVIS,J.POTEMPA	4/92
1NEL	ENOLASE/ORTHOPHOSPHATE/FLUORIDE/MAGNESIUM	L.LEBIODA,E.ZHANG,K.LEWINSKI,M.J.BREWER	7/93
1LTS	HEAT-LABILE ENTEROTOXIN	T.K.SIXMA,W.G.J.HOL	7/92
1LTT	HEAT-LABILE ENTEROTOXIN	T.K.SIXMA,W.G.J.HOL	7/92
1LTA	HEAT-LABILE ENTEROTOXIN (LT)/GALACTOSE	E.A.MERRITT,T.K.SIXMA,K.H.KALK,B.A.M.VAN ZANTEN,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
1EGF	EPIDERMAL GROWTH FACTOR(NMR,32 STRUCTURES)	G.T.MONTELIONE,K.WUTHRICH,H.A.SCHERAGA	10/91
3EGF	EPIDERMAL GROWTH FACTOR(MOUSE)(NMR,16 STRUCTURES)	G.T.MONTELIONE,K.WUTHRICH,H.A.SCHERAGA	8/92
1EPG	EPIDERMAL GROWTH FACTOR(NMR,MINIMIZED AVERAGE STRUCTURE)	D.KOHDA,F.INAGAKI	3/92
1EPH	EPIDERMAL GROWTH FACTOR(NMR,10 STRUCTURES)	D.KOHDA,F.INAGAKI	3/92
1EPI	EPIDERMAL GROWTH FACTOR(NMR,MINIMIZED AVERAGE STRUCTURE)	D.KOHDA,F.INAGAKI	3/92
1EPJ	EPIDERMAL GROWTH FACTOR(NMR,5 STRUCTURES)	D.KOHDA,F.INAGAKI	3/92
1IFC	FATTY ACID BINDING PROTEIN(APO FORM 2)	G.SCAPIN,J.I.GORDON,J.C.SACCHETTINI	12/91
1ICN	INTESTINAL FATTY ACID BINDING PROTEIN, ARG 106>GLN MUTANT, WITH BOUND OLEATE	J.C.EADS,J.C.SACCHETTINI,A.KROMMINGA,J.I.GORDON	9/93
2HMB	FATTY ACID BINDING PROTEIN(HOLO FORM)	G.ZANOTTI,G.SCAPIN,P.SPADON,J.H.VEERKAMP,J.C.SACCHETTINI	9/92
1MDC	FATTY ACID BINDING PROTEIN	M.BENNING,H.M.HOLDEN	7/92

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1ICM	INTESTINAL FATTY ACID BINDING PROTEIN WITH BOUND MYRISTATE (C14:0)	J.C.EADS,J.C.SACCHETTINI,A.KROMMINGA,J.I.GORDON	9/93
1FRR	FERREDOXIN I	T.TSUKIHARA	9/93
1BFG	FIBROBLAST GROWTH FACTOR(BASIC,SERINE ANALOGUE)	Y.KITAGAWA,H.AGO,Y.KATSUBE,A.FUJISHIMA,Y.MATSUURA	4/93
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
1TTG	TENTH TYPE III MODULE OF FIBRONECTIN	A.L.MAIN,T.S.HARVEY,M.BARON,I.D.CAMPBELL	7/93
2FKE	FK-506 BINDING PROTEIN(HUMAN)/FK506	J.W.BECKER,B.M.MCKEEVER,J.ROTONDA	1/93
1FKD	FK-506 BINDING PROTEIN(HUMAN)/L-685,818	J.W.BECKER,J.ROTONDA,B.M.MCKEEVER	12/92
1FKG	FK-506 BINDING PROTEIN/ROTAMASE INHIBITOR	D.A.HOLT,J.I.LUENGO,D.S.YAMASHITA,H.-J.OH,A.L.KONIALIAN,H.-K.YEN, L.W.ROZAMUS,M.BRANDT,M.J.BOSSARD,M.A.LEVY,D.S.EGGLESTON, T.J.STOUT,J.LIANG,L.W.SCHULTZ,J.CLARDY	8/93
1FKH	FK-506 BINDING PROTEIN/ROTAMASE INHIBITOR	D.A.HOLT,J.I.LUENGO,D.S.YAMASHITA,H.-J.OH,A.L.KONIALIAN,H.-K.YEN, L.W.ROZAMUS,M.BRANDT,M.J.BOSSARD,M.A.LEVY,D.S.EGGLESTON, T.J.STOUT,J.LIANG,L.W.SCHULTZ,J.CLARDY	8/93
1FKI	FK-506 BINDING PROTEIN/ROTAMASE INHIBITOR (21S)	D.A.HOLT,J.I.LUENGO,D.S.YAMASHITA,H.-J.OH,A.L.KONIALIAN,H.-K.YEN, L.W.ROZAMUS,M.BRANDT,M.J.BOSSARD,M.A.LEVY,D.S.EGGLESTON, T.J.STOUTJ.LIANG,L.W.SCHULTZ,J.CLARDY	8/93
1FKR	FK-506- RAPAMYCIN-BINDING PROTEIN(NMR,20 STRUCTURES)	S.W.MICHNICK,M.K.ROSEN,T.J.WANDLESS,M.KARPLUS,S.L.SCHREIBER	3/92
1FKS	FK-506- AND RAPAMYCIN-BINDING PROTEIN(NMR,AVERAGE STRUCTURE)	S.W.MICHNICK,M.K.ROSEN,T.J.WANDLESS,M.KARPLUS,S.L.SCHREIBER	3/92
1FKT	FK-506- AND RAPAMYCIN-BINDING PROTEIN(NMR,AVERAGE)	S.W.MICHNICK,M.K.ROSEN,T.J.WANDLESS,M.KARPLUS,S.L.SCHREIBER	3/92
1OFV	FLAVODOXIN(ANACYSTIS NIDULANS,OXIDIZED)	W.W.SMITH,K.A.PATTRIDGE,C.L.LUSCHINSKY,M.L.LUDWIG	6/92
1GOF	GALACTOSE OXIDASE	N.ITO,S.E.V.PHILLIPS,P.F.KNOWLES	7/93
1GOG	GALACTOSE OXIDASE	N.ITO,S.E.V.PHILLIPS,P.F.KNOWLES	7/93
1GOH	GALACTOSE OXIDASE (APO-FORM)	N.ITO,S.E.V.PHILLIPS,P.F.KNOWLES	7/93
1GLY	GLUCOAMYLASE(ASPERGILLUS AWAMORI)	A.ALESHIN,A.GOLUBEV,L.M.FIRSOV,R.B.HONZATKO	1/92
1DOG	GLUCOAMYLASE-471/1-DEOXYNOJIRIMYCIN	E.HARRIS,A.ALESHIN,L.FIRSOV,R.B.HONZATKO	1/93
1GLU	GLUCOCORTICOID RECEPTOR DNA-BINDING DOMAIN/DNA	B.F.LUISI,W.X.XU,P.B.SIGLER	8/92
1GRX	GLUTAREDOXIN MUTANT(C14S)/GLUTATHIONE (MIXED DISULFIDE)(NMR,20 STRUCTURES)	J.H.BUSHWELLER,M.BILLETER,L.A.HOLMGREN,K.WUTHRICH	10/93
1GRF	GLUTATHIONE REDUCTASE(CARBOXAMIDOMETHYLATED)	P.A.KARPLUS,G.E.SCHULZ	12/92
1GRG	GLUTATHIONE REDUCTASE/BCNU	P.A.KARPLUS,G.E.SCHULZ	12/92
1GRH	GLUTATHIONE REDUCTASE/HECNU	P.A.KARPLUS,G.E.SCHULZ	12/92
1GRB	GLUTATHIONE REDUCTASE/NADH	P.A.KARPLUS,G.E.SCHULZ	12/92
1GRE	GLUTATHIONE REDUCTASE/GLUTATHIONE(REDUCED)	P.A.KARPLUS,G.E.SCHULZ	12/92
1GRA	GLUTATHIONE REDUCTASE/GSSG/NADP+	P.A.KARPLUS,G.E.SCHULZ	12/92
1GSS	GLUTATHIONE S-TRANSFERASE(HUMAN PLACENTA)	P.REINEMER,H.W.DIRR,R.LADENSTEIN,M.LO BELLO,G.FEDERICI,R.HUBER, M.W.PARKER	5/92
1HNA	GLUTATHIONE S TRANSFERASE(HUMAN,CLASS MU,FORM A) MUTANT(W214F)	S.RAGHUNATHAN,R.J.CHANDROSS,R.H.KRETSINGER,T.J.ALLISON, C.J.PENINGTON,G.S.RULE	10/93
1HNB	GLUTATHIONE S TRANSFERASE(HUMAN,CLASS MU,FORM B) MUTANT(W214F)	S.RAGHUNATHAN,R.J.CHANDROSS,R.H.KRETSINGER,T.J.ALLISON, C.J.PENINGTON,G.S.RULE	10/93
1HNC	GLUTATHIONE S TRANSFERASE(HUMAN, CLASS MU,FORM C) MUTANT(W214F)	S.RAGHUNATHAN,R.J.CHANDROSS,R.H.KRETSINGER,T.J.ALLISON, C.J.PENINGTON,G.S.RULE	10/93
1HUW	HUMAN GROWTH HORMONE, VARIANT	M.H.ULTSCH,W.S.SOMERS,A.A.KOSSIAKOFF,A.M.DE VOS	9/93
1GSR	GLUTATHIONE S-TRANSFERASE(PIG LUNG)	P.REINEMER,H.W.DIRR,R.LADENSTEIN,J.SCHAEFFER,O.GALLAY,R.HUBER	5/92
1GLT	GLUTATHIONE SYNTHETASE	H.YAMAGUCHI,H.KATO,Y.KATSUBE	3/93
1GLV	GLUTATHIONE SYNTHETASE(LOOPLESS MUTANT(DEL))	H.YAMAGUCHI,H.KATO,T.TANAKA,Y.KATSUBE	3/93
1GGA	G-GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE(HOLO)	F.M.D.VELLIEUX,J.HAJDU,W.G.J.HOL	10/91
1GDH	D-GLYCERATE DEHYDROGENASE(APO FORM)	J.D.GOLDBERG,T.YOSHIDA,P.BRICK	9/93
1PYG	GLYCOGEN PHOSPHORYLASE B (PYRIDOXAL-5'-PYROPHOSPHORYL DERIV.)/AMP	S.SPRANG	7/92
1GRM	GRAMICIDIN A(NMR, 5 STRUCTURES)	A.S.ARSENIEV,I.L.BARSUKOV,A.L.LOMIZE,V.Y.OREKHOV,V.F.BYSTROV	10/93
1RHG	GRANULOCYTE COLONY-STIMULATING FACTOR	C.P.HILL,T.D.OSSLUND,D.EISENBERG	1/93
1GKY	GUANYLATE KINASE/GMP	T.STEHLE,G.E.SCHULZ	12/91
2EDC	HALOALKANE DEHALOGENASE(SOAKED IN POTASSIUM IODIDE, PH 8.2)	K.H.G.VERSCHUEREN,B.W.DIJKSTRA	8/93
1HGF	HEMAGGLUTININ (BROMELAIN DIGESTED)	N.K.SAUTER,J.E.HANSON,G.D.GLICK,J.H.BROWN,R.L.CROWTHER, S.-J.PARK,J.J.SKEHEL,D.C.WILEY	11/91
1HGG	HEMAGGLUTININ/ALPHA(2,3)SIALYLLACTOSE(30MM)	N.K.SAUTER,J.E.HANSON,G.D.GLICK,J.H.BROWN,R.L.CROWTHER, S.-J.PARK,J.J.SKEHEL,D.C.WILEY	11/91
1HGH	HEMAGGLUTININ/NEU5AC(ALPHA)2BAC	N.K.SAUTER,J.E.HANSON,G.D.GLICK,J.H.BROWN,R.L.CROWTHER, S.-J.PARK,J.J.SKEHEL,D.C.WILEY	11/91
1HGI	HEMAGGLUTININ/4-ACETYL-NEU5AC(ALPHA)2ME	N.K.SAUTER,J.E.HANSON,G.D.GLICK,J.H.BROWN,R.L.CROWTHER, S.-J.PARK,J.J.SKEHEL,D.C.WILEY	11/91
1HGJ	HEMAGGLUTININ/9-AMINO-NEU5AC(ALPHA)2ME	N.K.SAUTER,J.E.HANSON,G.D.GLICK,J.H.BROWN,R.L.CROWTHER, S.-J.PARK,J.J.SKEHEL,D.C.WILEY	11/91
1HGD	HEMAGGLUTININ MUTANT(G135R)	N.K.SAUTER,J.E.HANSON,G.D.GLICK,J.H.BROWN,R.L.CROWTHER, S.-J.PARK,J.J.SKEHEL,D.C.WILEY	11/91
1HGE	HEMAGGLUTININ MUTANT(G135R)/NEU5AC2ME	N.K.SAUTER,J.E.HANSON,G.D.GLICK,J.H.BROWN,R.L.CROWTHER, S.-J.PARK,J.J.SKEHEL,D.C.WILEY	11/91
1HCY	HEMOCYANIN(PANULIRUS INTERRUPTUS)	A.VOLBEDA,W.G.J.HOL	5/91
1LLA	HEMOCYANIN SUBUNIT II(LIMULUS POLYPHEMUS)	B.HAZES,W.G.J.HOL	9/92
1HC1	HEMOCYANIN(P.INTERRUPTUS) SUBUNIT 1	A.VOLBEDA,W.G.J.HOL	5/91

Newly Released Entries (cont.)

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1HC2	HEMOCYANIN(P.INTERRUPTUS) SUBUNIT 2	A.VOLBEDA,W.G.J.HOL	5/91
1HC3	HEMOCYANIN(P.INTERRUPTUS) SUBUNIT 3	A.VOLBEDA,W.G.J.HOL	5/91
1HC4	HEMOCYANIN(P.INTERRUPTUS) SUBUNIT 4	A.VOLBEDA,W.G.J.HOL	5/91
1HC5	HEMOCYANIN(P.INTERRUPTUS) SUBUNIT 5	A.VOLBEDA,W.G.J.HOL	5/91
1HC6	HEMOCYANIN(P.INTERRUPTUS) SUBUNIT 6	A.VOLBEDA,W.G.J.HOL	5/91
1BAB	HEMOGLOBIN(DEOXY-THIONVILLE)	J.S.KAVANAUGH,A.ARNONE	5/92
1HBB	HEMOGLOBIN(LOW SALT)	J.S.KAVANAUGH,A.ARNONE	1/92
1HBA	HEMOGLOBIN ROTHSCHILD MUTANT(W37(B)R)	J.S.KAVANAUGH,A.ARNONE	1/92
1HGC	HEMOGLOBIN(T STATE,ALPHA-OXY)	R.LIDDINGTON,Z.DEREWENDA,E.DODSON,R.HUBBARD,G.DODSON	10/91
1HGB	HEMOGLOBIN(T STATE,AQUOMET)	R.LIDDINGTON,Z.DEREWENDA,E.DODSON,R.HUBBARD,G.DODSON	10/91
1HGA	HEMOGLOBIN(T STATE,DEOXYGENATED)	R.LIDDINGTON,Z.DEREWENDA,E.DODSON,R.HUBBARD,G.DODSON	10/91
1HEV	HEVEIN(NMR,6 STRUCTURES)	N.H.ANDERSEN,B.CAO	1/93
1ISU	HIGH-POTENTIAL IRON-SULPHUR PROTEIN(HIPIP)	H.M.HOLDEN	9/92
1HIC	HIRUDIN(VARIANT 1)(NMR,20 STRUCTURES)	T.SZYPERSKI,P.GUNTERT,S.R.STONE,K.WUTHRICH	4/92
1PYA	HISTIDINE DECARBOXYLASE(PYRUVOYL-DEPENDENT)	T.GALLAGHER,D.A.ROZWARSKI,S.R.ERNST,M.L.HACKERT	12/92
1AAF	HIV-1 NUCLEOCAPSID PROTEIN(MN STRAIN)	M.F.SUMMERS,L.E.HENDERSON,M.R.CHANCE,J.W.BESS JUNIOR,T.L.SOUTH, P.R.BLAKE,I.SAGI,G.PEREZ-ALVARADO,R.C.SOWDER,D.R.HARE,L.O.ARTHUR	4/91
1HVN	HIV-1 NUCLEOCAPSID ZINC FINGER/DNA(ACGCC) (NMR,15 STRUCTURES)	T.L.SOUTH,M.F.SUMMERS	12/92
1AAQ	HIV-1 PROTEASE/HYDROXYETHYLENE ISOSTERE	M.LEWIS	4/92
1HMI	HIV-1 REVERSE TRANSCRIPTASE	E.ARNOLD,J.DING,A.JACOBO-MOLINA,X.LU,R.G.NANNI,C.TANTILLO	4/93
1HVO	HIV-1 ZINC FINGER/DNA(ACGCC)(NMR,15 STRUCTURES, LESS RESTRAINTS)	T.L.SOUTH,M.F.SUMMERS	12/92
1CBV	FAB(BV04-01) AUTOANTIBODY/SINGLE-STRANDED DNA(LIGANDED)	J.N.HERRON,X.M.HE,A.B.EDMUNDSON	3/93
1NBV	FAB(BV04-01) AUTOANTIBODY/SINGLE-STRANDED DNA (UNLIGANDED)	J.N.HERRON,X.M.HE,A.B.EDMUNDSON	3/93
1BAF	AN02 FAB FRAGMENT(MOUSE)	D.J.LEAHY,A.T.BRUNGER,R.O.FOX,T.R.HYNES	1/92
1TET	IGG1 MONOCLONAL FAB FRAGMENT (TE33) COMPLEX WITH THE PEPTIDE (CTP3)	M.SHOHAM	6/93
1MIG	IMMUNOGLOBULIN	V.A.ROBERTS,E.D.GETZOFF	11/93
1BBD	IMMUNOGLOBULIN FAB FRAGMENT FROM 8F5 ANTIBODY AGAINST HRV2	J.TORMO,D.BLAAS,I.FITA	5/92
1BBJ	FAB' FRAGMENT(B72.3) OF CHIMAERIC MONOCLONAL ANTIBODY	R.L.BRADY,R.E.HUBBARD,R.J.TODD	4/92
2DBL	FAB FRAGMENT OF THE DB3 MONOCLONAL ANTIBODY IN COMPLEX WITH 5-ALPHA-PREGNANE	J.H.AREVALO,I.A.WILSON	2/94
1DBK	FAB FRAGMENT OF THE DB3 MONOCLONAL ANTIBODY IN COMPLEX WITH 5-BETA-ANDROSTANE	J.H.AREVALO,I.A.WILSON	8/93
1DBJ	FAB FRAGMENT OF THE DB3 MONOCLONAL ANTIBODY IN COMPLEX WITH AETIOCHOLANOLONE	J.H.AREVALO,I.A.WILSON	8/93
1DBM	FAB FRAGMENT OF THE DB3 MONOCLONAL ANTIBODY IN COMPLEX WITH PROGESTERONE 11ALPHA	J.H.AREVALO,I.A.WILSON	8/93
1FGV	FV FRAGMENT OF A HUMANIZED VERSION OF THE ANTI-CD18 ANTIBODY 'H52'	C.EIGENBROT,J.KESSLER	11/93
7FAB	IMMUNOGLOBULIN FAB' NEW	F.SAUL,R.J.POLJAK	11/91
1MCO	IMMUNOGLOBULIN IGG1 LAMBDA WITH A HINGE DELETION	L.W.GUDDAT,A.B.EDMUNDSON	2/93
1MCS	IMMUNOGLOBULIN LAMBDA LIGHT CHAIN/ N-ACETYL-L-GLN-D-PHE-L-HIS-D-PRO-OH	A.B.EDMUNDSON,D.L.HARRIS,Z.-C.FAN,L.W.GUDDAT	2/93
1MCQ	IMMUNOGLOBULIN LAMBDA LIGHT CHAIN/ N-ACETYL-L-HIS-D-PRO-NH2	A.B.EDMUNDSON,D.L.HARRIS,Z.-C.FAN,L.W.GUDDAT	2/93
1MCR	IMMUNOGLOBULIN LAMBDA LIGHT CHAIN/ N-ACETYL-L-HIS-D-PRO-OH	A.B.EDMUNDSON,D.L.HARRIS,Z.-C.FAN,L.W.GUDDAT	2/93
1MCK	IMMUNOGLOBULIN LAMBDA LIGHT CHAIN/ N-ACETYL-D-GLU-L-HIS-D-PRO-NH2	A.B.EDMUNDSON,D.L.HARRIS,Z.-C.FAN,L.W.GUDDAT	2/93
1MCN	IMMUNOGLOBULIN LAMBDA LIGHT CHAIN/ N-ACETYL-D-HIS-L-PRO-NH2	A.B.EDMUNDSON,D.L.HARRIS,Z.-C.FAN,L.W.GUDDAT	2/93
1MCL	IMMUNOGLOBULIN LAMBDA LIGHT CHAIN/ N-ACETYL-D-HIS-L-PRO-OH	A.B.EDMUNDSON,D.L.HARRIS,Z.-C.FAN,L.W.GUDDAT	2/93
1MCD	IMMUNOGLOBULIN LAMBDA LIGHT CHAIN/ N-ACETYL-D-PHE-B-ALA-L-HIS-D-PRO-NH2	A.B.EDMUNDSON,D.L.HARRIS,Z.-C.FAN,L.W.GUDDAT	2/93
1MCJ	IMMUNOGLOBULIN LAMBDA LIGHT CHAIN/ N-ACETYL-D-PHE-L-HIS-D-PRO-NH2	A.B.EDMUNDSON,D.L.HARRIS,Z.-C.FAN,L.W.GUDDAT	2/93
1MCE	IMMUNOGLOBULIN LAMBDA LIGHT CHAIN/ N-ACETYL-L-GLN-D-PHE-L-HIS-D-PRO-B-ALA-OH	A.B.EDMUNDSON,D.L.HARRIS,Z.-C.FAN,L.W.GUDDAT	2/93
1MCC	IMMUNOGLOBULIN LAMBDA LIGHT CHAIN/ N-ACETYL-L-GLN-D-PHE-L-HIS-D-PRO-NH2	A.B.EDMUNDSON,D.L.HARRIS,Z.-C.FAN,L.W.GUDDAT	2/93
1MCB	IMMUNOGLOBULIN LAMBDA LIGHT CHAIN/ N-ACETYL-L-GLN-D-PHE-L-HIS-D-PRO-OH	A.B.EDMUNDSON,D.L.HARRIS,Z.-C.FAN,L.W.GUDDAT	2/93
1MCF	IMMUNOGLOBULIN LAMBDA LT. CHAIN / N-ACETYL-L-GLN-D-PHE-L-HIS-D-PRO-B-ALA-B-ALA-OH	A.B.EDMUNDSON,D.L.HARRIS,Z.-C.FAN,L.W.GUDDAT	2/93
1MCH	IMMUNOGLOBULIN LAMBDA LT. CHAIN/ N-ACETYL-L-GLN-D-PHE-L-HIS-D-PRO-B-ALA-B-ALA-OH	A.B.EDMUNDSON,D.L.HARRIS,Z.-C.FAN,L.W.GUDDAT	2/93
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

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1MCI	IMMUNOGLOBUOIN LAMBDA LIGHT CHAIN/ N-ACETYL-D-PHE-L-HIS-D-PRO-OH	A.B.EDMUNDSON,D.L.HARRIS,Z.-C.FAN,L.W.GUDDAT	2/93
1HIL	IGG2A FAB FRAGMENT (FAB 17/9)	J.M.RINI,I.A.WILSON	7/92
1HIM	IGG2A FAB FRAGMENT (FAB 17/9)	U.SCHULZE-GAHMEN,I.A.WILSON	7/92
1HIN	IGG2A FAB FRAGMENT (FAB 17/9)	J.M.RINI,I.A.WILSON	7/92
1MFE	MURINE SE155-4 FAB FRAGMENT/DODECASACCHARIDE	M.CYGLER	10/93
1MFC	MURINE SE155-4 FAB FRAGMENT/HEPTASACCHARIDE	A.ZDANOV,M.CYGLER	10/93
1MFB	MURINE SE155-4 FAB FRAGMENT/HEPTASACCHARIDE	A.ZDANOV,M.CYGLER	10/93
1MFD	MURINE SE155-4 FAB FRAGMENT/TRISACCHARIDE	A.ZDANOV,M.CYGLER	10/93
1MFA	MURINE SE155-4 FV FRAGMENT/TRISACCHARIDE	A.ZDANOV,M.CYGLER	10/93
1HIU	INSULIN(HUMAN)(NMR,11 STRUCTURES)	Q.X.HUA,S.E.SHOELSON,M.KOCHOYAN,M.A.WEISS	2/92
1HIS	INSULIN(HUMAN) MUTANT(DES-PENTAPEPTIDE) (NMR,15 STRUCTURES)	Q.X.HUA,M.KOCHOYAN,M.A.WEISS	2/92
1HIT	INSULIN(HUMAN) MUTANT(F24G)(NMR,9 STRUCTURES)	Q.X.HUA,M.KOCHOYAN,M.A.WEISS	2/92
1HIQ	INSULIN(HUMAN) MUTANT(F(B24)S)(NMR,10 STRUCTURES)	Q.X.HUA,S.E.SHOELSON,K.INOUYE,M.A.WEISS	3/93
6INS	INSULIN(PORCINE,DES-B30,CROSSLINKED B29-A1)	U.DEREWENDA,Z.DEREWENDA,E.J.DODSON,G.G.DODSON,X.BING, J.MARKUSSEN	11/92
7INS	INSULIN(PORCINE)/M-CRESOL/CLUPEINE Z	P.BALSCHMIDT,F.B.HANSEN,E.DODSON,G.DODSON,F.KORBER	9/91
1TRZ	T3R3 INSULIN COMPLEXED TO TWO ZINC IONS	E.CISZAK,G.D.SMITH	11/93
1IFA	INTERFERON-BETA(MOUSE)	Y.MITSUI,T.SENDA,S.MATSUDA,G.KAWANO,K.T.NAKAMURA,H.SHIMIZU	10/91
1RFB	RECOMBINANT BOVINE INTERFERON-GAMMA	C.T.SAMUDZI,J.R.RUBIN	6/93
2MIB	INTERLEUKIN 1-BETA	J.P.PRIESTLE,J.VAN OOSTRUM,A.SCHMITZ,M.G.GRUETTER	12/93
1HIB	INTERLEUKIN 1 BETA MUTANT(T9G)	N.P.CAMACHO,D.R.SMITH,A.GOLDMAN,B.SCHNEIDER,D.GREEN,P.R.YOUNG, H.M.BERMAN	3/93
2INT	INTERLEUKIN 4	M.R.WALTER,W.J.COOK,B.G.ZHAO,R.CAMERON JUNIOR,S.E.EALICK, R.L.WALTER JUNIOR,P.REICHERT,T.L.NAGABUSHAN,P.P.TROTTA,C.E.BUGG	7/93
1KST	KISTRIN(NMR)	M.ADLER,R.A.LAZARUS,M.S.DENNIS,G.WAGNER	9/91
1LCC	LAC REPRESSOR N-TERMINAL FRAGMENT/11 BASE PAIR HALF-OPERATOR(NMR,BEST STRUCTURE)	V.P.CHUPRINA,J.A.C.RULLMANN,R.M.J.N.LAMERICHS,J.H.VAN BOOM, R.BOELENS,R.KAPTEIN	3/93
1LCD	LAC REPRESSOR N-TERMINAL FRAGMENT/11 BASE PAIR HALF-OPERATOR(NMR,3 STRUCTURES)	V.P.CHUPRINA,J.A.C.RULLMANN,R.M.J.N.LAMERICHS,J.H.VAN BOOM, R.BOELENS,R.KAPTEIN	3/93
1BLC	LACTAMASE(BETA)/DEGRADATION PRODUCTS OF CLAVULANATE	C.C.H.CHEN,O.HERZBERG	9/93
1MBL	LACTAMASE(BETA) MUTANT(E166A)	J.R.KNOX,P.C.MOEWS	8/92
1LDN	LACTATE DEHYDROGENASE/NADH/OXAMATE/F1,6BP	D.B.WIGLEY,S.J.GAMBLIN,J.P.TURKENBURG,E.J.DODSON,K.PIONTEK, H.MUIRHEAD,J.J.HOLBROOK	11/91
1LLD	L-LACTATE DEHYDROGENASE(T-STATE) MUTANT(C199S)/NADH	S.IWATA,T.OHTA	6/92
1LFG	LACTOFERRIN(HUMAN MILK,DIFERRIC)	E.N.BAKER,B.F.ANDERSON,M.HARIDAS	2/92
1LEC	LECTIN	L.DELBAERE,M.VANDONSELAAR,J.QUAIL	12/92
1LTE	LECTIN(ERYTHRINA CORALLODENDRON)	B.SHAANAN,H.LIS,N.SHARON	6/91
1LEM	LENTIL LECTIN * SUCROSE	R.LORIS,L.WYNS	11/93
1LEN	MONOCLINIC NATIVE LENTIL LECTIN	D.VAN OVERBERGE,R.LORIS,L.WYNS	11/93
1LED	LECTIN/LEWIS B HUMAN BLOOD GROUP DETERMINANT	L.DELBAERE,M.VANDONSELAAR,J.QUAIL	12/92
1SLT	S-LECTIN (A VERTEBRATE 14 KDA BETA-GALACTOSIDE BINDING PROTEIN)	D.-I.LIAO,O.HERZBERG	10/93
1BLL	LEUCINE AMINOPEPTIDASE(BOVINE LENS)	H.KIM,W.N.LIPSCOMB	5/93
1TRH	LIPASE	P.GROCHULSKI,M.CYGLER	11/93
1CRL	LIPASE(TRIACYLGLYCEROL HYDROLASE)	P.GROCHULSKI,M.CYGLER	3/93
3LAD	LIPOAMIDE DEHYDROGENASE(A.VINELANDII)	A.MATTEVI,A.J.SCHIERBEEK,W.G.J.HOL	12/91
1LPF	LIPOAMIDE DEHYDROGENASE	A.MATTEVI,W.HOL	10/92
1LMA	LYSOZYME(HEN,CLOSELY PACKED CRYSTAL)	MADHUSUDAN,R.KODANDAPANI,M.VIJAYAN	8/92
1HEW	LYSOZYME(HEN)/TRI-N-ACETYLCHITOTRIOSE	J.C.CHEETHAM,P.J.ARTYMIUK,D.C.PHILLIPS	1/92
1LHK	LYSOZYME(HUMAN) MUTANT(A47P)	K.INAKA,M.MATSUSHIMA,T.HERNING,R.KUROKI,K.YUTANI,M.KIKUCHI	3/92
1LHL	LYSOZYME(HUMAN) MUTANT(D91P)	K.INAKA,M.MATSUSHIMA,T.HERNING,R.KUROKI,K.YUTANI,M.KIKUCHI	3/92
1LHI	LYSOZYME(HUMAN) MUTANT(P71G)	K.INAKA,M.MATSUSHIMA,T.HERNING,R.KUROKI,K.YUTANI,M.KIKUCHI	3/92
1LHJ	LYSOZYME(HUMAN) MUTANT(P103G)	K.INAKA,M.MATSUSHIMA,T.HERNING,R.KUROKI,K.YUTANI,M.KIKUCHI	3/92
1LHH	LYSOZYME(HUMAN) MUTANT(V110P)	K.INAKA,M.MATSUSHIMA,T.HERNING,R.KUROKI,K.YUTANI,M.KIKUCHI	3/92
138L	LYSOZYME MUTANT(A93C,C54T,C97A)	D.W.HEINZ,B.W.MATTHEWS	9/93
140L	LYSOZYME MUTANT(L121A,A129M,F153L,C54T,C97A)	E.BALDWIN,B.W.MATTHEWS	10/93
141L	LYSOZYME MUTANT(L121A,A129M,V149I,C54T,C97A)	E.BALDWIN,B.W.MATTHEWS	10/93
143L	LYSOZYME MUTANT(L121A,A129V,L133M,F153L,C54T,C97A)	E.BALDWIN,B.W.MATTHEWS	10/93
144L	LYSOZYME MUTANT(L121I,A129L,L133M,P153W,C54T,C97A)	E.BALDWIN,B.W.MATTHEWS	10/93
145L	LYSOZYME MUTANT(L121I,A129W,L133M,C54T,C97A)	E.BALDWIN,B.W.MATTHEWS	10/93
146L	LYSOZYME MUTANT(L121M,A129L,L133M,V149I,F153W,C54T,C97A)	E.BALDWIN,B.W.MATTHEWS	10/93
147L	LYSOZYME MUTANT(L121M,L133V,F153L,C54T,C97A)	E.BALDWIN,B.W.MATTHEWS	10/93
142L	LYSOZYME MUTANT(L131A,A129V,L133A,F153L,C54T,C97A)	E.BALDWIN,B.W.MATTHEWS	10/93
139L	LYSOZYME MUTANT(N68C,A93C,C54T,C97A)	D.W.HEINZ,B.W.MATTHEWS	9/93
1JHL	LYSOZYME(PHEASANT)/FV FRAGMENT(LIGHT AND HEAVY VARIABLE DMNS OF ANTIBODY D11.15)	V.CHITARRA,P.M.ALZARI,G.A.BENTLEY,T.N.BHAT,J.-L.EISELE,R.J.POLJAK	5/93
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
201L	LYSOZYME(T4) MUTANT(INS K48-HP)	D.W.HEINZ,B.W.MATTHEWS	10/93
205L	LYSOZYME(T4) MUTANT(INS S44-AAA)	D.W.HEINZ,B.W.MATTHEWS	10/93
129L	LYSOZYME(T4) MUTANT(A93T,C54T,C97A)	P.PJURA,B.W.MATTHEWS	5/93
131L	LYSOZYME(T4) MUTANT(T26S,C54T,C97A)	P.PJURA,B.W.MATTHEWS	5/93
130L	LYSOZYME(T4) MUTANT(T151S,C54T,C97A)	P.PJURA,B.W.MATTHEWS	5/93

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1CME	MALATE DEHYDROGENASE/MALATE/NAD	M.D.HALL,L.J.BANASZAK	3/92
1OMP	D-MALTODEXTRIN-BINDING PROTEIN	A.J.SHARFF,F.A.QUIOCHO	9/92
2MBP	D-MALTODEXTRIN-BINDING PROTEIN/D-MALTOSE	J.C.SPURLINO,F.A.QUIOCHO	9/92
2MNR	MANDELATE RACEMASE(PSEUDOMONAS PUTIDA)	D.J.NEIDHART,G.A.PETSKO	7/93
1MAT	METHIONINE AMINOPEPTIDASE	S.L.RODERICK,B.W.MATTHEWS	12/92
2BBK	METHYLAMINE DEHYDROGENASE(PARACOCCUS DENITRIFICANS)	L.CHEN,F.S.MATHEWS	12/93
2MAD	METHYLAMINE DEHYDROGENASE(THIOBACILLUS VERSUTUS)	E.G.HUIZINGA,F.M.D.VELLIEUX,W.G.J.HOL	5/92
1MAE	METHYLAMINE DEHYDROGENASE/METHYLHYDRAZINE	E.G.HUIZINGA,F.M.D.VELLIEUX,W.G.J.HOL	5/92
1MAF	METHYLAMINE DEHYDROGENASE/(2,2,2)-TRIFLUORO ETHYLHYDRAZINE (TFH)	E.G.HUIZINGA,F.M.D.VELLIEUX,W.G.J.HOL	5/92
2MTA	METHYLAMINE DEHYDROGENASE-AMICYANIN-CYTOCHROME C551I COMPLEX	L.CHEN,F.S.MATHEWS	10/93
1MYP	MYELOPEROXIDASE	R.E.FENNA,J.ZENG	4/92
1YMC	CYANOMET-SULFMYOGLOBIN(HORSE HEART)	S.V.EVANS,G.D.BRAYER	9/93
1YMB	METMYOGLOBIN(HORSE HEART)	S.V.EVANS,G.D.BRAYER	9/93
1MYM	MYOGLOBIN(CARBON MONOXIDE)	T.LI,G.N.PHILLIPS JUNIOR	10/93
1YCA	MYOGLOBIN(CARBONMONOXY,PH 7.1)	A.D.CAMERON,S.J.SMERDON,A.J.WILKINSON,J.HABASH,J.R.HELLIWELL	8/93
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
1YMA	MYOGLOBIN(HORSE HEART) MUTANT(H64Y)	R.MAURUS,G.D.BRAYER	9/93
2MGK	MYOGLOBIN(MET,CARBONMONOXY) MUTANT(D122N)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JUNIOR	8/93
2MGA	MYOGLOBIN(MET,CARBONMONOXY) MUTANT(D122N,H64G)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JUNIOR	8/93
2MGC	MYOGLOBIN(MET,CARBONMONOXY) MUTANT(D122N,H64L)	R.M.ARDUINI,M.L.QUILLIN,G.N.PHILLIPS JUNIOR	8/93
2MGF	MYOGLOBIN(MET,CARBONMONOXY) MUTANT(D122N,H64Q)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JUNIOR	8/93
2SPL	MYOGLOBIN(MET,CARBONMONOXY) MUTANT(D122N,L29F)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JUNIOR	8/93
2CMM	MYOGLOBIN(MET,CYANIDE)	T.SATO,N.TANAKA,H.MORIYAMA,N.IGARASHI,S.NEYA,N.FUNASAKI,T.IIZUKA, Y.SHIRO	12/93
2MGL	MYOGLOBIN(MET,DEOXY) MUTANT(D122N)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JUNIOR	8/93
2MGD	MYOGLOBIN(MET,DEOXY) MUTANT(D122N,H64L)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JUNIOR	8/93
2MGG	MYOGLOBIN(MET,DEOXY) MUTANT(D122N,H64Q)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JUNIOR	8/93
2MGM	MYOGLOBIN(MET,OXY) MUTANT(D122N)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JUNIOR	8/93
2SPN	MYOGLOBIN(MET,OXY) MUTANT(D122N,L29F)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JUNIOR	8/93
1MGN	MYOGLOBIN(MET) (MUTANT WITH INITIATOR MET AND WITH ASP 122)	M.S.HARGROVE,M.L.QUILLIN,G.N.PHILLIPS JUNIOR	10/93
2MGB	MYOGLOBIN(MET) MUTANT(D122N,H64G)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JUNIOR	8/93
2MGE	MYOGLOBIN(MET) MUTANT(D122N,H64L)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JUNIOR	8/93
2MGH	MYOGLOBIN(MET) MUTANT(D122N,H64Q)	R.M.ARDUINI,M.L.QUILLIN,G.N.PHILLIPS JUNIOR	8/93
2MGI	MYOGLOBIN(MET) MUTANT(D122N,H64T)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JUNIOR	8/93
2MGJ	MYOGLOBIN(MET) MUTANT(D122N,H64V)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JUNIOR	8/93
2SPM	MYOGLOBIN(MET) MUTANT(D122N,L29F)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JUNIOR	8/93
2SPO	MYOGLOBIN(MET) MUTANT(D122N,L29V)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JUNIOR	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
1MYG	MYOGLOBIN(PIG)	S.J.SMERDON,T.J.OLDFIELD,A.J.WILKINSON,Z.DAUTER,K.PETRATOS, K.S.WILSON	2/92
1MYH	MYOGLOBIN(PIG) MUTANT(K45R)	S.J.SMERDON,T.J.OLDFIELD,A.J.WILKINSON,Z.DAUTER,K.PETRATOS, K.S.WILSON	2/92
1MYI	MYOGLOBIN(PIG) MUTANT(K45S)	S.J.SMERDON,T.J.OLDFIELD,A.J.WILKINSON,Z.DAUTER,K.PETRATOS, K.S.WILSON	2/92
1MYJ	MYOGLOBIN(PIG) MUTANT(V68T)	S.J.SMERDON,T.J.OLDFIELD,A.J.WILKINSON,Z.DAUTER,K.PETRATOS, K.S.WILSON	2/92
1SWM	MYOGLOBIN(SPERM WHALE,FERRIC)/AZIDE	M.RIZZI,P.ASCENZI,A.CODA,M.BRUNORI,M.BOLOGNESI	3/92
1NAR	NARBONIN(NO ENZYMATIC FUNCTION KNOWN)	M.HENNIG,B.SCHLESIER,K.S.WILSON	9/93
2BAT	NEURAMINIDASE N2/SIALIC ACID	J.N.VARGHESE,P.M.COLMAN	8/92
1NCA	NEURAMINIDASE N9/NC41 FAB	W.R.TULIP,J.N.VARGHESE,P.M.COLMAN	1/92
1NCB	NEURAMINIDASE N9 MUTANT(N329D)/NC41 FAB	W.R.TULIP,J.N.VARGHESE,P.M.COLMAN	1/92
1NCC	NEURAMINIDASE N9 MUTANT(I368R)/NC41 FAB	W.R.TULIP,J.N.VARGHESE,P.M.COLMAN	1/92
1NCD	NEURAMINIDASE N9(PILOT WHALE)/NC41 FAB	W.R.TULIP,J.N.VARGHESE,P.M.COLMAN	1/92
1NTX	ALPHA-NEUROTOXIN(NMR,20 STRUCTURES)	L.R.BROWN,K.WUTHRICH	
2SN3	SCORPION NEUROTOXIN(VARIANT 3)	B.ZHAO,M.CARSON,S.E.EALICK,C.E.BUGG	2/92
1VNA	VARIANT-1 NEUROTOXIN, CSE-V1	W.LEE,N.R.KRISHNA	10/93
1VNB	VARIANT-1 NEUROTOXIN, CSE-V1	W.LEE,N.R.KRISHNA	10/93
1KAA	STAPHYLOCOCCAL NUCLEASE MUTANT(K116A)	A.HODEL,R.O.FOX	12/92
1KAB	STAPHYLOCOCCAL NUCLEASE MUTANT(K126G)	A.HODEL,R.O.FOX	12/92
2NCK	NUCLEOSIDE DIPHOSPHATE KINASE (EC 2.7.4.6)	R.L.WILLIAMS,D.A.OREN,E.ARNOLD	11/93
1OVB	OVOTRANSFERRIN(18KD FRAGMENT, DOMAIN II FROM N-TERMINAL LOBE)	P.KUSER,P.LINDLEY,R.SARRA	10/92
1ADR	P22 C2 REPRESSOR, AMINO-TERMINAL DNA-BINDING DOMAIN	P.SEVILLA SIERRA,G.OTTING,K.WUTHRICH	7/93
1ONC	P-30 PROTEIN	S.C.MOSIMANN,W.ARDELT,M.N.G.JAMES	8/93
1POS	PORCINE PANCREATIC SPASMOLYTIC POLYPEPTIDE	A.DE,D.BROWN,M.GORMAN,M.CARR,M.R.SANDERSON,P.S.FREEMONT	10/93
1STF	PAPAIN CYS-25(CARBOXYMETHYLATED)/STEFIN B MUTANT(C3S)	M.T.STUBBS,B.LABER,W.BODE	4/93
1PPN	PAPAIN CYS-25 WITH BOUND ATOM	R.W.PICKERSGILL,G.W.HARRIS,E.GARMAN	10/91
1PPP	PAPAIN/E64-C(FORM II)	T.ISHIDA	3/93
1RTP	ALPHA-PARVALBUMIN	C.A.MCPHALEN,A.R.SIELECKI,B.D.SANTARSIERO,M.N.G.JAMES	5/93

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1PSA	PEPSIN/RENIN INHIBITOR(A62095)	L.CHEN,C.ABAD-ZAPATERO	10/91
1NPX	NADH PEROXIDASE(NON-NATIVE,OXIDIZED)	T.STEHLE,S.A.AHMED,A.CLAIBORNE,G.E.SCHULZ	8/91
2NPX	NADH PEROXIDASE	T.STEHLE,A.CLAIBORNE,G.E.SCHULZ	5/92
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
2PNB	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
2PMG	PHOSPHOGLUCOMUTASE/PHOSPHOTRANSFERASE	W.J.RAY JUNIOR,J.-B.DAI,Y.LIU,M.KONNO	8/92
1PSH	PHOSPHOLIPASE A/D2/U	D.FREMONT,N.-H.XUONG,I.WILSON	7/92
1PPA	PHOSPHOLIPASE A2(LYS 49 VARIANT)	D.R.HOLLAND,L.L.CLANCY,S.W.MUCHMORE,T.J.RYDEL,H.M.EINSPAHR, B.C.FINZEL, R.L.HEINRIKSON,K.D.WATENPAUGH	10/91
1PTF	PHOSPHOTRANSFERASE(HISTIDINE-CONTAINING PHOSPHOCARRIER PROTEIN)	Z.JIA,W.QUAIL,L.DELBAERE	10/93
1POH	HISTIDINE-CONTAINING PHOSPHOCARRIER PROTEIN	Z.JIA,W.QUAIL,L.DELBAERE	10/93
1PAJ	PAK PILIN, PSEUDOMONAS AERUGINOSA PILIN STRAIN K RESIDUES 128-144 TRANS	C.MCINNES,F.D.SONNICHSEN,C.M.KAY,R.S.HODGES,B.D.SYKES	8/93
1PAK	PSEUDOMONAS AERUGINOSA PILIN STRAIN K	C.MCINNES,F.D.SONNICHSEN,C.M.KAY,R.S.HODGES,B.D.SYKES	8/93
1PK2	PLASMINOGEN ACTIVATOR(KRINGLE 2 DOMAIN)(NMR)	M.LLINAS,I.-J.L.BYEON	9/91
1TPM	TISSUE-TYPE PLASMINOGEN ACTIVATOR(TYPE 1)(FINGER DOMAIN)(NMR)	A.K.DOWNING,P.C.DRISCOLL,T.S.HARVEY,T.J.DUDGEON,B.O.SMITH,M.BARON, I.D.CAMPBELL	5/93
1TPN	TISSUE-TYPE PLASMINOGEN ACTIVATOR(TYPE 1)(FINGER DOMAIN)(NMR)	A.K.DOWNING,P.C.DRISCOLL,T.S.HARVEY,T.J.DUDGEON,B.O.SMITH,M.BARON, I.D.CAMPBELL	5/93
1PKR	RECOMBINANT OF HUMAN PLASMINOGEN KRINGLE 1	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
1PLF	PLATELET FACTOR 4	R.ST.CHARLES,B.F.P.EDWARDS	10/93
1PDG	PLATELET-DERIVED GROWTH FACTOR BB	C.OEFNER,A.D.DARCY,F.K.WINKLER,B.EGGIMANN,M.HOSNAG	7/92
1PAF	POKEWEED ANTIVIRAL PROTEIN	A.F.MONZINGO,E.J.COLLINS,S.R.ERNST,J.D.IRVIN,J.D.ROBERTUS	10/92
1PAG	POKEWEED ANTIVIRAL PROTEIN/FORMYCIN 5'-MONOPHOSPHATE	A.F.MONZINGO,E.J.COLLINS,S.R.ERNST,J.D.IRVIN,J.D.ROBERTUS	10/92
2POL	BETA SUBUNIT OF POL III	X.-P.KONG,J.KURIYAN	11/92
1OMF	PORIN	S.W.COWAN,T.SCHIRMER,J.N.JANSONIUS	1/93
1PII	PRA ISOMERASE/IGP SYNTHASE	M.WILMANNS,J.P.PRIESTLE,J.N.JANSONIUS	6/91
2IGG	PROTEIN G(SECOND IGG-BINDING DOMAIN)(NMR, 27 STRUCTURES)	L.-Y.LIAN,J.P.DERRICK,M.J.SUTCLIFFE,J.C.YANG,G.C.K.ROBERTS	8/92
2IGH	PROTEIN G(THIRD IGG-BINDING DOMAIN)(NMR,24 STRUCTURES)	L.-Y.LIAN,J.P.DERRICK,M.J.SUTCLIFFE,J.C.YANG,G.C.K.ROBERTS	8/92
1PTK	PROTEINASE K	A.MUELLER,W.SAENGER	4/93
2PKC	PROTEINASE K (EC 3.4.21.14) CALCIUM-FREE FORM	A.MUELLER,W.HINRICHS,W.M.WOLF,W.SAENGER	6/93
1PEK	PROTEINASE K/INHIBITOR	C.BETZEL,T.P.SINGH,M.VISANJI,K.PETERS,S.FITTKAU,W.SAENGER, K.S.WILSON	1/93
3PRK	PROTEINASE K/METHOXYSUCCINYL-ALA-ALA-PRO-ALA-CHLOROMETHYL KETONE	W.M.WOLF,J.BAJORATH,A.MUELLER,S.RAGHUNATHAN,T.P.SINGH,W.HINRICHS, W.SAENGER	8/91
2PF1	PROTHROMBIN FRAGMENT 1(RESIDUES 1-156)	T.P.SESHADRI,A.TULINSKY,E.SKRZYPCZAK-JANKUN,C.H.PARK	9/92
2PF2	PROTHROMBIN FRAGMENT 1(RESIDUES 1-156,CALCIUM)	M.SORIANO-GARCIA,K.PADMANABHAN,A.M.DE VOS,A.TULINSKY	4/93
2HPP	PROTHROMBIN FRAGMENT 2/HUMAN PPACK-THROMBIN	A.TULINSKY,K.PADMANABHAN	4/93
2HPQ	PROTHROMBIN FRAGMENT 2/PPACK-THROMBIN	A.TULINSKY,K.PADMANABHAN	4/93
1POW	PYRUVATE OXIDASE	Y.A.MULLER,G.E.SCHULZ	11/93
1POX	PYRUVATE OXIDASE MUTANT(P178S,S188N,A458V)	Y.A.MULLER,G.E.SCHULZ	11/93
1REC	RECOVERIN, CALCIUM SENSOR IN VISION	K.M.FLAHERTY,S.ZOZULYA,L.STRYER,D.B.MCKAY	10/93
2REN	RENIN	A.R.SIELECKI,M.N.G.JAMES	2/92
1BBS	RENIN(HUMAN)(GLYCOSYLATED,RECOMBINANT)	V.DHANARAJ,T.L.BLUNDELL	5/92
1SMR	RENIN/INHIBITOR CH-66	C.G.DEALWIS,T.L.BLUNDELL	6/93
1PER	PHAGE 434 REPRESSOR(AMINO-TERMINAL DOMAIN, RESIDUES 1 - 69)/OR3 OPERATOR DNA	D.W.RODGERS,S.C.HARRISON	11/93
1RPE	PHAGE 434 REPRESSOR(N-TERMINAL DOMAIN,RESIDUES 1 - 69)/ OPERATOR OR2	L.J.W.SHIMON,S.C.HARRISON	3/93
1ERB	N-ETHYL RETINAMIDE-RETINOL BINDING PROTEIN COMPLEX (N-ETHYL RETINAMIDE-RBP)	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.VAN DER SAAG,R.KAPTEIN	7/93
1BRQ	RETINOL BINDING PROTEIN(APO FORM)	G.ZANOTTI,H.L.MONACO	7/92
1HBQ	RETINOL BINDING PROTEIN(APO FORM)	G.ZANOTTI,H.L.MONACO	2/93
1BRP	RETINOL BINDING PROTEIN(HOLO FORM)	G.ZANOTTI,H.L.MONACO	7/92
1HBP	RETINOL BINDING PROTEIN(HOLO FORM)	G.ZANOTTI,H.L.MONACO	2/93
2AAS	RIBONUCLEASE A	J.SANTORO,C.GONZALEZ,M.BRUIX,J.L.NEIRA,J.L.NIETO,J.HERRANZ,M.RICO	11/92
1ROB	RIBONUCLEASE A/CYTIDYLIC ACID	J.N.LISGARTEN,R.A.PALMER	8/93
1RNC	RIBONUCLEASE A(BOVINE)/2',5'-CPG	C.F.AGUILAR,P.J.THOMAS,A.MILLS,D.S.MOSS,R.A.PALMER	10/91
1RND	RIBONUCLEASE A(BOVINE)/3',5'-DCPDG	C.F.AGUILAR,P.J.THOMAS,A.MILLS,D.S.MOSS,R.A.PALMER	10/91
1GOA	RIBONUCLEASE H (EC 3.1.26.4) MUTANT WITH GLY80B INSERTED BETWEEN GLN80 AND TRP81	K.ISHIKAWA,S.KIMURA,H.NAKAMURA,K.MORIKAWA,S.KANAYA	5/93
1GOB	RIBONUCLEASE H (EC 3.1.26.4) MUTANT WITH GLY77 REPLACED BY ALA;A77-RNASE H	K.ISHIKAWA,S.KIMURA,H.NAKAMURA,K.MORIKAWA,S.KANAYA	5/93

Newly Released Entries (cont.)

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1GOC	RIBONUCLEASE H (EC 3.1.26.4) (DOUBLE MUTANT WITH GLY77 REPLACED BY ALA, GLY80B	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.NAKAMURA	2/93
1RBR	RIBONUCLEASE H MUTANT(H62P)	K.ISHIKAWA,S.KIMURA,S.KANAYA,K.MORIKAWA,H.NAKAMURA	2/93
1RBV	RIBONUCLEASE H MUTANT(K95A)	K.ISHIKAWA,S.KIMURA,S.KANAYA,K.MORIKAWA,H.NAKAMURA	2/93
1RBT	RIBONUCLEASE H MUTANT(K95G)	K.ISHIKAWA,S.KIMURA,S.KANAYA,K.MORIKAWA,H.NAKAMURA	2/93
1RBU	RIBONUCLEASE H MUTANT(K95N)	K.ISHIKAWA,S.KIMURA,S.KANAYA,K.MORIKAWA,H.NAKAMURA	2/93
2RNS	RIBONUCLEASE S(PH 4.75)	E.E.KIM,R.VARADARAJAN,H.W.WYCKOFF,F.M.RICHARDS	2/92
1RNU	RIBONUCLEASE S(PH 5.5)	E.E.KIM,R.VARADARAJAN,H.W.WYCKOFF,F.M.RICHARDS	2/92
1RNV	RIBONUCLEASE S(PH 4.75,TRUNCATED S PEPTIDE)	E.E.KIM,R.VARADARAJAN,H.W.WYCKOFF,F.M.RICHARDS	2/92
1RGC	RIBONUCLEASE T1/GUANYLIC ACID	A.HEYDENREICH,G.KOELLNER,H.W.CHOE,F.CORDES,C.KISKER, H.SCHINDELIN,R.ADAMIAK,U.HAHN,W.SAENGER	5/93
1LRA	RIBONUCLEASE T1(LYS 25-/RNASE T1)	J.PLETINCKX,J.STEYAERT,H.-W.CHOE,U.HEINEMANN,L.WYNS	10/93
2AAD	RIBONUCLEASE T1 MUTANT(H40K)/GUANYLIC ACID	I.ZEGERS,P.VERHELST,C.W.CHOE,J.STEYAERT,U.HEINEMANN,L.WYNS, W.SAENGER	9/92
2AAE	RIBONUCLEASE T1 MUTANT(H40K)/ISOZYME PHOSPHATE	I.ZEGERS,P.VERHELST,C.W.CHOE,J.STEYAERT,U.HEINEMANN,L.WYNS, W.SAENGER	9/92
1RN1	RIBONUCLEASE T1(GLN 25)	R.K.ARNI,G.P.PAL,K.G.RAVICHANDRAN,A.TULINSKY,F.G.WALZ JUNIOR, P.METCALF	11/91
1RIB	RIBONUCLEOTIDE REDUCTASE	H.EKLUND	1/93
1RNR	RIBONUCLEOTIDE REDUCTASE	A.ABERG,P.NORDLUND	4/93
1MRR	RIBONUCLEOTIDE REDUCTASE(MANGANESE SUBSTITUTED, PROTEIN R2)	H.EKLUND,P.NORDLUND	7/92
1PKP	PROKARYOTIC RIBOSOMAL PROTEIN S5	V.RAMAKRISHNAN,S.W.WHITE	8/93
2AAI	RICIN(CASTOR PLANT)	E.RUTENBER,B.J.KATZIN,W.MONTFORT,J.E.VILLAFRANCA,S.R.ERNST, E.J.COLLINS,D.MLSNA,A.F.MONZINGO,M.P.READY,J.D.ROBERTUS	9/93
1APG	RICIN A CHAIN(CASTOR PLANT)/ADENYL(3'-->5')GUANOSINE	A.F.MONZINGO,J.D.ROBERTUS	6/92
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
1RPR	ROP(COL E1) (NMR,10 STRUCTURES)	W.EBERLE,A.PASTORE,W.KLAUS,C.SANDER,P.ROESCH	10/91
1RPC	RP71935(NMR,20 SIMULATED ANNEALING STRUCTURES)	D.FRECHET,J.D.GUITTON,F.HERMAN,D.FAUCHER,G.HELYNCK, B.MONEGIER DU SORBIER,J.P.RIDOUX,E.JAMES-SURCOUF,M.VUILHORGNE	8/93
1RPB	RP71955(NMR, MINIMIZED MEAN STRUCTURE)	D.FRECHET,J.D.GUITTON,F.HERMAN,D.FAUCHER,G.HELYNCK, B.MONEGIER DU SORBIER,J.P.RIDOUX,E.JAMES-SURCOUF,M.VUILHORGNE	8/93
1RBA	RUBISCO MUTANT(D193N)	G.SCHNEIDER,E.SODERLIND	11/91
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
1PDC	SEMINAL FLUID PROTEIN PDC-109(DOMAIN B)(NMR,BEST OF 12 SOLUTION STRUCTURES)	M.LLINAS,K.L.CONSTANTINE,L.PATTHY	10/91
1SRY	SERYL-TRNA SYNTHETASE	M.FUJINAGA,C.BERTHET-COLOMINAS,S.CUSACK	8/93
1NRC	SMALL NUCLEAR RIBONUCLEOPROTEIN MUTANT(Q85C)	K.NAGAI,P.R.EVANS	3/92
1AB2	SRC HOMOLOGY 2 DOMAIN OF PROTO-ONCOGENE TYROSINE KINASE	M.OVERDUIN,C.B.RIOS,B.J.MAYER,D.BALTIMORE,D.COWBURN	7/93
1PTS	STREPTAVIDIN/PEPTIDE (FSHPQNT)	DUPONT PROTEIN CRYSTALLOGRAPHY GROUP	7/92
1ST3	SUBTILISIN BL	D.W.GODDETTE	11/91
1SUB	SUBTILISIN BPN'CRB-S3 MUTANT(N218S,S221C)	T.GALLAGHER,P.BRYAN,G.L.GILLILAND	6/92
1SUC	SUBTILISIN BPN'CRB-S3 MUTANT(N218S,S221C,M50F,Y217K)	T.GALLAGHER,P.BRYAN,G.L.GILLILAND	6/92
1SUD	SUBTILISIN BPN'CRB-S3 MUTANT(M50F,Y217K,N218S,S221C)	T.GALLAGHER,P.BRYAN,G.L.GILLILAND	6/92
3SIC	SUBTILISIN BPN'/SSI MUTANT(M73K)	Y.MITSUI,Y.TAKEUCHI,K.T.NAKAMURA	8/91
5SIC	SUBTILISIN BPN'/SSI MUTANT(M70G,M73K)	Y.MITSUI,Y.TAKEUCHI,K.T.NAKAMURA	11/91
1SCD	SUBTILISIN CARLSBERG	P.A.FITZPATRICK,D.RINGE,A.M.KLIBANOV	8/93
1SCB	SUBTILISIN CARLSBERG	P.A.FITZPATRICK,A.C.U.STEINMETZ,D.RINGE,A.M.KLIBANOV	7/93
1SCA	SUBTILISIN CARLSBERG(NATIVE)	P.A.FITZPATRICK,A.C.U.STEINMETZ,D.RINGE,A.M.KLIBANOV	7/93
1SBN	SUBTILISIN NOVO/EGLIN C MUTANT(L45R)	M.G.GRUETTER,D.W.HEINZ,J.P.PRIESTLE	12/91
1SRD	SUPEROXIDE DISMUTASE(CU,ZN)	Y.KITAGAWA,Y.KATSUBE	4/93
1SDY	SUPEROXIDE DISMUTASE(YEAST)	K.DJINOVIC,G.GATTI,A.CODA,L.ANTOLINI,G.PELOSI,A.DESIDERI,M.FALCONI, F.MARMOCCHI,G.ROTILIO,M.BOLOGNESI	6/91
3MDS	SUPEROXIDE DISMUTASE(MANGANESE)	M.L.LUDWIG,A.L.METZGER,K.A.PATTRIDGE,W.C.STALLINGS	10/93
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
1THM	THERMITASE(THERMOACTINOMYCES VULGARIS)	A.V.TEPLYAKOV,I.P.KURANOVA,E.H.HARUTYUNYAN	2/92
1THL	THERMOLYSIN/N-(1-(2(R,S)-CARBOXY-4-PHENYLBUTYL) CYCLOPENTYLCARBONYL)-S-TRYPTOPHAN	D.R.HOLLAND,B.W.MATTHEWS	11/93
1TRB	THIOREDOXIN REDUCTASE(E.COLI) MUTANT(C138S)	J.KURIYAN,T.S.R.KRISHNA	11/91
1ABI	ALPHA-THROMBIN(HUMAN)/HIRULOG 3	X.QIU,A.TULINSKY	9/92
1ABJ	ALPHA-THROMBIN(HUMAN)/PPACK	X.QIU,A.TULINSKY	9/92
2HAT	ALPHA-THROMBIN/PEPTIDOMIMETIC INHIBITOR	T.-P.WU,A.TULINSKY	4/93
1IHS	THROMBIN/HIRUTONIN-2	A.ZDANOV,M.CYGLER	8/93
1IHT	THROMBIN/HIRUTONIN-6	A.ZDANOV,M.CYGLER	8/93
1BBR	THROMBIN(BOVINE)/FIBRINOPEPTIDE-A ALPHA(RESIDUES 7-16)	P.MARTIN,B.EDWARDS	4/92
1TMB	THROMBIN/CYCLOTHEONAMIDE A	X.QIU,K.P.PADMANABHAN,B.E.MARYANOFF,A.TULINSKY	5/93
1FPH	THROMBIN/FIBRINOPEPTIDE-A(N-ACETYLATED DECAPEPTIDE)/ HIRUGEN (TERNARY COMPLEX)	M.T.STUBBS,W.BODE	4/93
1HRT	THROMBIN/HIRUDIN(VARIANT 1)	J.VITALI,B.F.P.EDWARDS	2/93
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

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1HGT	THROMBIN/HIRUGEN	A.TULINSKY,E.SKRZYPCZAK-JANKUN	6/91
1THR	THROMBIN/HIRULLIN	X.QIU,M.YIN,K.P.PADMANABHAN,J.L.KRSTENANSKY,A.TULINSKY	6/93
2HGT	THROMBIN/HIRULOG 1	A.TULINSKY,V.CARPEROS	6/91
1THS	THROMBIN/MDL-28050	X.QIU,M.YIN,K.P.PADMANABHAN,J.L.KRSTENANSKY,A.TULINSKY	6/93
1DWB	THROMBIN(HUMAN)/BENZAMIDINE	D.W.BANNER,P.HADVARY	8/92
1DWC	THROMBIN(HUMAN)/MD-805	D.W.BANNER,P.HADVARY	8/92
1DWD	THROMBIN(HUMAN)/NAPAP	D.W.BANNER,P.HADVARY	8/92
1DWE	THROMBIN(HUMAN)/PPACK	D.W.BANNER,P.HADVARY	8/92
1PPB	THROMBIN(HUMAN)/PPACK	W.BODE	10/91
1ETR	E-THROMBIN(BOVINE)/MQPA	W.BODE,H.BRANDSTETTER	7/92
1ETS	E-THROMBIN(BOVINE)/NAPAP	W.BODE,H.BRANDSTETTER	7/92
1ETT	E-THROMBIN(BOVINE)/TAPA	W.BODE,H.BRANDSTETTER	7/92
2BBQ	THYMIDYLATE SYNTHASE/DUMP/POLYGLUTAMYL CB3717	A.KAMB,J.FINER-MOORE,R.M.STROUD	9/92
2TGI	TRANSFORMING GROWTH FACTOR BETA 2	S.DAOPIN,D.R.DAVIES	10/93
1THA	TRANSTHYRETIN/3,3'-DIIODO-L-THYRONINE)	A.WOJTCZAK,J.LUFT,V.CODY	11/91
1TLM	TRANSTHYRETIN/MILRINONE	A.WOJTCZAK,J.LUFT,V.CODY	12/92
5TGL	TRIACYLGLYCEROL LIPASE/INHIBITOR	A.M.BRZOZOWSKI,U.DEREWENDA,Z.S.DEREWENDA,G.G.DODSON,D.LAWSON, J.P.TURKENBURG,F.BJORKLING,B.HUGE-JENSEN,S.R.PATKAR,L.THIM	10/91
2TMD	TRIMETHYLAMINE DEHYDROGENASE	F.S.MATHEWS,L.W.LIM,S.WHITE	10/93
1TSI	TRIOSEPHOSPHATE ISOMERASE/ N-HYDROXY-4-PHOSPHONO-BUTANAMIDE	C.L.M.J.VERLINDE	11/92
1TOP	TROPONIN C(CHICKEN)	M.SUNDARALINGAM	8/93
1TRO	TRP REPRESSOR/OPERATOR	Z.OTWINOWSKI,R.G.ZHANG,P.B.SIGLER	8/92
1TYP	TRYPANOTHIONE REDUCTASE/GLUTATHIONYLDISULFIDE,NADP	S.BAILEY,W.N.HUNTER	6/92
1GBT	TRYPSIN(GUANIDINOBENZOYL)	P.T.SINGER,R.M.SWEET	9/91
1TBS	TRYPSIN/BENZAMIDINE	A.O.SMALAS,	7/92
1PPC	TRYPSIN(BOVINE)/NAPAP	W.BODE,D.TURK	10/91
1PPH	TRYPSIN(BOVINE)/3TAPAP	W.BODE,D.TURK	10/91
1PPE	TRYPSIN(BOVINE)/CMTI-I	W.BODE,R.HUBER	10/91
1PIT	TRYPSIN INHIBITOR(NMR,20 STRUCTURES)	K.D.BERNDT,P.GUNTERT,L.P.M.ORBONS,K.WUTHRICH	4/92
1SHP	TRYPSIN INHIBITOR(NMR,20 STRUCTURES)	W.ANTUCH,K.BERNDT,M.CHAVEZ,J.DELFIN,K.WUTHRICH	11/92
1MCT	TRYPSIN/TRYPSIN INHIBITOR	Q.HUANG,S.LIU,Y.TANG	10/92
2TUN	TUMOR NECROSIS FACTOR-ALPHA MUTANT(A84V)	P.SALUDJIAN,T.PRANGE	10/93
1TYA	TYROSYL TRNA SYNTHETASE MUTANT(T51A)	K.A.BROWN,P.DE MEESTER,D.M.BLOW	7/92
1TYB	TYROSYL TRNA SYNTHETASE MUTANT(T51G)	K.A.BROWN,P.DE MEESTER,D.M.BLOW	7/92
1TYC	TYROSYL TRNA SYNTHETASE MUTANT(T51P)	K.A.BROWN,P.BRICK,P.DE MEESTER,D.M.BLOW	7/92
1TYD	TYROSYL TRNA SYNTHETASE MUTANT(T51S)	K.A.BROWN,P.DE MEESTER,D.M.BLOW	7/92
2UCE	UBIQUITIN CONJUGATING ENZYME (E2)	W.J.COOK,L.C.JEFFREY,Y.XU,V.CHAU	10/93
1TBE	TETRAUBIQUITIN	W.J.COOK,L.C.JEFFREY,E.KASPEREK,C.M.PICKART	10/93
1MUP	MAJOR URINARY PROTEIN/2-(SEC-BUTYL)THIAZOLINE	Z.BOCSKEI,D.R.FLOWER,C.R.GROOM,S.E.V.PHILLIPS,A.C.T.NORTH	9/92
1VIL	VILLIN(DOMAIN 1, RESIDUES 1 - 126)	M.A.MARKUS,T.NAKAYAMA,P.MATSUDAIRA,G.WAGNER	10/93
1BBT	FOOT AND MOUTH DISEASE VIRUS	K.R.ACHARYA,E.E.FRY,D.T.LOGAN,D.I.STUART	5/92
1FOD	FOOT AND MOUTH DISEASE VIRUS 0=1=BFS 1860 REDUCED (FMDV0=1=BFS,REDUCED)	D.T.LOGAN,S.LEA,R.LEWIS,D.STUART,E.FRY	10/93
1MEC	MENGO VIRUS(LOW PH)	M.G.ROSSMANN	1/92
1VAB	MHC CLASS I H-2K\UB\D AND SENDAI VIRUS	D.H.FREMONT,I.A.WILSON	7/92
1VAA	MHC CLASS I H-2K\UB\D AND VESICULAR STOMATITIS VIRUS	D.H.FREMONT,I.A.WILSON	7/92
1MS2	MS2 VIRUS(BACTERIOPHAGE)	K.VALEGARD,L.LILJAS	5/91
2BOP	PAPILLOMAVIRUS-1 E2(DNA-BINDING DOMAIN)/DNA	R.S.HEGDE,S.R.GROSSMAN,L.A.LAIMINS,P.B.SIGLER	1/94
2CAS	PARVOVIRUS(CANINE) CAPSID(STRAIN D, VIRAL PROTEIN 2)	H.WU,M.ROSSMANN	8/93
1SIV	SIMIAN IMMUNODEFICIENCY VIRUS (SIV) PROTEASE COMPLEX WITH INHIBITOR SKF107457	B.ZHAO,S.ABDEL-MEGUID	8/93
1SNW	SINDBIS VIRUS CAPSID PROTEIN(MONOCLINIC)	L.TONG,M.G.ROSSMANN	7/92
1TME	THEILER'S MURINE ENCEPHALOMYELITIS VIRUS	R.A.GRANT,D.J.FILMAN,J.M.HOGLE	1/92
1FPV	VIRAL PROTEIN 2, FELINE PANLEUKOPENIA VIRUS(STRAIN B)	M.AGBANDJE,M.G.ROSSMANN	3/93
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
5ZNF	ZINC FINGER(NMR,12 STRUCTURES)	M.KOCHOYAN,H.T.KEUTMANN,M.A.WEISS	8/91
7ZNF	ZINC FINGER(ZFY-SWAP)(NMR,12 STRUCTURES)	M.KOCHOYAN,H.T.KEUTMANN,M.A.WEISS	8/91
1CLG	COLLAGEN(3 CHAINS OF 12(G-P-P)) MODEL	J.M.CHEN	8/91
2CLG	COLLAGEN(3 CHAINS OF 12(G-P-HYDRXYPRO) MODEL	J.M.CHEN	8/91
4CLG	COLLAGEN(15 CHAINS OF 12(G-P-HYDRXYPRO)) MODEL	J.M.CHEN	8/91
1BBE	COLLAGEN(3 CHAINS OF 4(G-P-P)) MODEL 1	G.NEMETHY,K.D.GIBSON,K.A.PALMER,C.N.YOON,G.PATERLINI,A.ZAGARI, S.RUMSEY,H.A.SCHERAGA	4/92
1BBF	COLLAGEN(3 CHAINS OF 4(G-P-P)) MODEL 2	G.NEMETHY,K.D.GIBSON,K.A.PALMER,C.N.YOON,G.PATERLINI,A.ZAGARI, S.RUMSEY,H.A.SCHERAGA	4/92
5ZNA	DNA(Z(WC),GCGCGCGCGCGCGCGC) MODEL	A.T.ANSEVIN,A.H.WANG	2/91
1HLH	E46 PROTEIN PRODUCT OF THE E2A GENE(HELIX-LOOP-HELIX DOMAIN) MODEL	T.J.GIBSON,J.D.THOMPSON,R.A.ABAGYAN	12/92
1HLI	LOW-AFFINITY IGE RECEPTOR(HUMAN,LECTIN-HOMOLOGY DOMAIN) MODEL	E.A.PADLAN,B.A.HELM	6/93

Newly Released Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1HLJ	LOW-AFFINITY IGE RECEPTOR(MURINE, LECTIN-HOMOLOGY DOMAIN) MODEL	E.A.PADLAN,B.A.HELM	6/93
1IPT	INTRON(CORE OF GROUP I INTRONS) MODEL	F.MICHEL,E.WESTHOF	5/91
2PTE	L-LYSYL-D-ALA-D-ALA/DD PEPTIDASE MODEL	J.R.KNOX	11/90
1VAN	L-LYSYL-D-ALA-D-ALA/VANCOMYCIN MODEL	J.R.KNOX	11/90
1AAO	MAST CELL TRYPTASE MODEL	D.A.JOHNSON,G.J.BARTON	3/92
1SLK	SILK I(POLY ALA-GLY) MODEL	S.A.FOSSEY,G.NEMETHY,K.D.GIBSON,H.A.SCHERAGA	10/91
2SLK	SILK II(POLY ALA-GLY) MODEL	S.A.FOSSEY,G.NEMETHY,K.D.GIBSON,H.A.SCHERAGA	10/91

STRUCTURE FACTOR ENTRIES

R1HCYSF	HEMOCYANIN(PANULIRUS INTERRUPTUS)	A.VOLBEDA,W.HOL	5/91
R6INSSF	INSULIN(PORCINE,DES-B30,CROSSLINKED B29-A1)	G.DODSON ET AL.	3/91
R1PSASF	PEPSIN/RENIN INHIBITOR(A62095)	L.CHEN,C.ABAD-ZAPATERO	10/91
R1CCDSF	CLARA CELL 17 KDA PROTEIN(RAT)	T.C.UMLAND,S.SWAMINATHAN,W.FUREY,G.SINGH,J.PLETCHER,M.SAX	9/91
R1RGASF	RIBONUCLEASE T1/GUANYLIC ACID/GUANOSINE	I.ZEGERS,L.WYNS	6/93
R1SDYSF	SUPEROXIDE DISMUTASE(YEAST)	M.BOLOGNESI ET AL.	6/91
R1TRBSF	THIOREDOXIN REDUCTASE(E.COLI) MUTANT(C138S)	J.KURIYAN,T.KRISHNA	11/91
R2TPRSF	TRYPANOTHIONE REDUCTASE	J.KURIYAN,X.-P.KONG,T.S.R.KRISHNA	8/91

NMR ENTRIES

NONE

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

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1LIB	ADIPOCYTE LIPID-BINDING PROTEIN	Z.ZU,D.A.BERNLOHR,L.J.BANASZAK	12/93
1LIC	ADIPOCYTE LIPID-BINDING PROTEIN/HEXADECANESULFONIC ACID	J.M.LALONDE,D.A.BERNLOHR,L.J.BANASZAK	12/93
1LID	ADIPOCYTE LIPID-BINDING PROTEIN/OLEIC ACID	Z.ZU,D.A.BERNLOHR,L.J.BANASZAK	12/93
1LIE	ADIPOCYTE LIPID-BINDING PROTEIN/PALMITIC ACID	J.M.LALONDE,D.A.BERNLOHR,L.J.BANASZAK	12/93
1LIF	ADIPOCYTE LIPID-BINDING PROTEIN/STEARIC ACID	Z.ZU,D.A.BERNLOHR,L.J.BANASZAK	12/93
1ADB	ALCOHOL DEHYDROGENASE/5-BETA-D-RIBOFURANOSYL-NICOTINAMIDE ADENINE DINUCLEOTIDE	H.LI,W.A.HALLOWS,J.S.PUNZI,V.E.MARQUEZ,H.L.CARRELL,K.W.PANKIEWICZ, K.A.WATANABE,B.M.GOLDSTEIN	12/93
1ADC	ALCOHOL DEHYDROGENASE/5-BETA-D-RIBOFURANOSYL-PICOLINAMIDE ADENINE DINUCLEOTIDE	H.LI,W.A.HALLOWS,J.S.PUNZI,V.E.MARQUEZ,H.L.CARRELL,K.W.PANKIEWICZ, K.A.WATANABE,B.M.GOLDSTEIN	12/93
1ACR	ALDOSE REDUCTASE(WILD TYPE)/NADP+/CACODYLATE	D.H.HARRISON,K.M.BOHREN,K.H.GABBAY,G.A.PETSKO,D.RINGE	11/93
1ACS	ALDOSE REDUCTASE(WILD TYPE)/NADP+/CITRATE	D.H.HARRISON,K.M.BOHREN,K.H.GABBAY,G.A.PETSKO,D.RINGE	11/93
1ACQ	ALDOSE REDUCTASE(WILD TYPE)/NADP+/ GLUCOSE-6-PHOSPHATE	D.H.HARRISON,K.M.BOHREN,K.H.GABBAY,G.A.PETSKO,D.RINGE	11/93
1ACU	ALDOSE REDUCTASE MUTANT(Y48H)/NADP+/CITRATE	K.M.BOHREN,C.E.GRIMSHAW,C.J.LAI,K.H.GABBAY,G.A.PETSKO, D.H.HARRISON,D.RINGE	11/93
1HRS	APOFERRITIN CO-CRYSTALLIZED WITH SN-PROTOPORPHYRIN IX IN CADMIUM SULFATE	G.PRECIGOUX,J.YARIV,B.GALLOIS,A.DAUTANT,C.COURSEILLE, B.LANGLOIS D'ESTAINTOT	11/93
1ASC	ASPARTATE AMINOTRANSFERASE MUTANT(D223A)/N-METHYL PYRIDOXAL-5'-PHOSPHATE	C.SCHUMACHER,D.RINGE	8/93
1ASB	ASPARTATE AMINOTRANSFERASE MUTANT(D223A)/ PYRIDOXAL-5'-PHOSPHATE AND MALEATE	C.SCHUMACHER,D.RINGE	8/93
1ASG	ASPARTATE AMINOTRANSFERASE MUTANT(Y226F)/ PYRIDOXAL-5'-PHOSPHATE AND MALEATE	C.SCHUMACHER,D.RINGE	8/93
1ASF	ASPARTATE AMINOTRANSFERASE MUTANT(Y226F)/ PYRIDOXAL-5'-PHOSPHATE AND SULFATE	C.SCHUMACHER,D.RINGE	8/93
1ASA	ASPARTATE AMINOTRANSFERASE(WILD TYPE)/ PYRIDOXAL-5'-PHOSPHATE AND MALEATE	C.SCHUMACHER,D.RINGE	8/93
1ASD	ASPARTATE AMINOTRANSFERASE(WILD TYPE)/ N-METHYL-PYRIDOXAL-5'-PHOSPHATE/MALEATE	C.SCHUMACHER,D.RINGE	8/93
1ASE	ASPARTATE AMINOTRANSFERASE(WILD TYPE)/ PYRIDOXAL-5'-PHOSPHATE-N-OXIDE/MALEATE	C.SCHUMACHER,D.RINGE	8/93
1BCT	BACTERIORHODOPSIN(PROTEOLYTIC FRAGMENT 163-231) (NMR,14 STRUCTURES)	D.E.NOLDE,I.L.BARSUKOV,A.L.LOMIZE,A.S.ARSENIEV	7/93
1BGS	BARNASE/BARSTAR MUTANT	Y.MAUGUEN,V.GUILLET,A.LAPTHORN	11/93
1NBA	N-CARBAMOYLSARCOSINE AMIDOHYDROLASE	M.J.ROMAO,D.TURK,F.-Z.GOMIS-RUTH,R.HUBER,G.SCHUMACHER, H.MOLLERING,L.RUSSMANN	5/92
1AZM	HUMAN CARBONIC ANHYDRASE I/5-ACETAMIDO-1,3, 4-THIADIAZOLE-2-SULFONAMIDE	S.CHAKRAVARTY,K.K.KANNAN	11/93
1HUG	CARBONIC ANHYDRASE I/GOLD CYANIDE	V.KUMAR,K.K.KANNAN	10/93
1HUH	CARBONIC ANHYDRASE I/IODIDE	V.KUMAR,K.K.KANNAN	10/93
1BZM	CARBONIC ANHYDRASE I/5-ACETYLAMINO-4-METHYL-1,3, 4-THIADOZOLINE-2-SULFONAMIDE	S.CHAKRAVARTY,K.K.KANNAN	11/93
1CZM	CARBONIC ANHYDRASE I/3-ACETOXYMERCURI-4-AMINOBENZENE SULFONAMIDE	S.CHAKRAVARTY,K.K.KANNAN	12/93
1AAG	CARCINOGENIC EMBRYO ANTIGEN ANTIBODY	M.T.MAS,K.SMITH,D.L.YARMUSH,K.AISAKA,R.M.FINE	4/92
1CRP	C-H-RAS P21 PROTEIN(CATALYTIC DMN, RESIDUES 1-166)/GDP/ MG(NMR, STRUCTURES 1-20)	P.J.KRAULIS,P.J.DOMAILLE,S.L.CAMPBELL-BURK,T.VAN AKEN,E.D.LAUE	11/93
1CRQ	C-H-RAS P21 PROTEIN(CATALYTIC DMN, RESIDUES 1-166)/GDP/ MG(NMR, MIN.AVE.STRUCT)	P.J.KRAULIS,P.J.DOMAILLE,S.L.CAMPBELL-BURK,T.VAN AKEN,E.D.LAUE	11/93
1CRR	C-H-RAS P21 PROTEIN(CATALYTIC DMN, RESIDUES 1-166)/GDP/ MG(NMR, STRUCTURES 21-40)	P.J.KRAULIS,P.J.DOMAILLE,S.L.CAMPBELL-BURK,T.VAN AKEN,E.D.LAUE	11/93
1SCS	CONCANAVALIN A(COBALT-SUBSTITUTED)	C.EMMERICH,J.R.HELLIWELL	12/93
1SCR	CONCANAVALIN A(NICKEL-SUBSTITUTED)	C.EMMERICH,J.R.HELLIWELL	12/93
1CHM	CREATINE AMIDINOHYDROLASE	H.W.HOEFFKEN,S.H.KNOF,P.A.BARTLETT,R.HUBER,H.MOELLERING, G.SCHUMACHER	7/93
1CLH	CYCLOPHILIN	R.T.CLUBB,G.WAGNER	12/93
1CRY	CYTOCHROME C2	K.MIKI,S.SOGABE	12/93
150D	DNA(5'-D(CGCGAATT(EDA)GCG)-3')	G.A.LEONARD,K.E.MCAULEY-HECHT,N.J.GIBSON,T.BROWN,W.P.WATSON, W.N.HUNTER	12/93
151D	DNA(CGATCG)/ADRIAMYCIN	L.A.LIPSCOMB,M.E.PEEK,L.D.WILLIAMS,F.X.ZHOU,J.A.BERTORAND, D.VANDERVEER	12/93
152D	DNA(CGATCG)/DAUNOMYCIN	L.A.LIPSCOMB,M.E.PEEK,F.X.ZHOU,J.A.BERTRAND,D.VANDERVEER, L.D.WILLIAMS	12/93
140D	DNA(5'-[D-(AGCTTGCCTTGAG)(CTCAAGGCAAGCT)])	A.MUJEEB,T.L.JAMES	9/93
141D	DNA(5'-[D-(AGCTTGCCTTGAG)(CTCAAGGCAAGCT)])	A.MUJEEB,T.L.JAMES	9/93
134D	DNA(TCCTCCTTTTTTAGGAGGATTTTTTGGTGGT)(NMR,MINIMIZED AVERAGE STRUCTURE)	D.J.PATEL,I.RADHAKRISHNAN	8/93
135D	DNA(TCCTCCTTTTTTAGGAGGATTTTTTGGTGGT)(NMR,MINIMIZED AVERAGE STRUCTURE)	D.J.PATEL,I.RADHAKRISHNAN	8/93
136D	DNA(TCCTCCTTTTTTAGGAGGATTTTTTGGTGGT)	D.J.PATEL,I.RADHAKRISHNAN	8/93
154D	FLEXI-DI[D(BR CGCG)]2 COMPLEX	M.E.PEEK,L.A.LIPSCOMB,J.A.BERTRAND,Q.GAO,B.P.ROQUES, C.GARBAY-JAUREGUIBERRY,L.D.WILLIAMS	12/93
149D	DNA	I.RADHAKRISHNAN,D.J.PATEL	11/93
148D	DNA(GGTTGGTGTGGTTGG)(NMR, 12 STRUCTURES)	P.SCHULTZE,R.F.MACAYA,J.FEIGON	11/93
156D	DNA(GGGGTTTTGGGG)	P.SCHULTZE,F.W.SMITH,J.FEIGON	1/94

Newly Deposited Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
143D	DNA (5'-D(*AP*GP*GP*GP*TP*TP*AP*GP*GP*GP*TP*AP*GP*G-P*GP*TP*TP*AP*GP*GP*G)-3')	Y.WANG,D.J.PATEL	10/93
1ELA	ELASTASE/TRIFLUOROACETYL-LYSYL-PROLYL-ISOPROPYLANILIDE	C.MATTOS,B.RASMUSSEN,X.DING,G.A.PETSKO,D.RINGE	12/93
1ELB	ELASTASE/TRIFLUOROACETYL-LYSYL-LEUCYL-ISOPROPYLANILIDE	C.MATTOS,B.RASMUSSEN,X.DING,G.A.PETSKO,D.RINGE	12/93
1ELC	ELASTASE/TRIFLUOROACETYL-LYSYL-PHENYALANYL-ISOPROPYLANILIDE	C.MATTOS,B.RASMUSSEN,X.DING,G.A.PETSKO,D.RINGE	12/93
1GLG	GALACTOSE/GLUCOSE BINDING PROTEIN/GALACTOSE	M.N.VYAS,N.K.VYAS,F.A.QUIOCHO	12/93
1GVA	GENE V PROTEIN MUTANT(Y41H)(NMR, 20 STRUCTURES)	P.J.M.FOLKERS,M.NILGES,R.H.A.FOLMER,R.N.H.KONINGS,C.W.HILBERS	12/93
1GVB	GENE V PROTEIN MUTANT(Y41H)(NMR,AVERAGE STRUCTURE)	P.J.M.FOLKERS,M.NILGES,R.H.A.FOLMER,R.N.H.KONINGS,C.W.HILBERS	12/93
1HTS	HEAT SHOCK TRANSCRIPTION FACTOR	C.HARRISON,H.NELSON	12/93
1HDA	HEMOGLOBIN(BOVINE,DEOXY)	G.FERMI	5/93
1HCR	HIN RECOMBINASE(DNA-BINDING DOMAIN)/DNA	J.A.FENG,R.C.JOHNSON,R.E.DICKERSON	12/93
1ERG	EXTRACELLULAR REGION OF HUMAN COMPLEMENT REGULATORY PROTEIN CD59	B.KIEFFER,P.C.DRISCOLL,I.D.CAMPBELL,A.C.WILLIS,P.A.VAN DER MERWE, S.J.DAVIS	12/93
1ERH	EXTRACELLULAR REGION OF HUMAN COMPLEMENT REGULATORY PROTEIN CD59	B.KIEFFER,P.C.DRISCOLL,I.D.CAMPBELL,A.C.WILLIS,P.A.VAN DER MERWE, S.J.DAVIS	12/93
1RAL	3A-HYDROXYSTEROID DEHYDROGENASE(RAT)	S.S.HOOG,J.E.PAWLOWSKI,P.M.ALZARI,T.M.PENNING,M.LEWIS	2/94
2CGS	IMMUNOGLOBULIN IGG2B(KAPPA)FAB FRAGMENT/ANTIGEN	L.W.GUDDAT,L.SHAN,A.B.EDMUNDSON	11/93
1CGR	IMMUNOGLOBULIN IGG2B(KAPPA)FAB FRAGMENT/ANTIGEN	L.W.GUDDAT,L.SHAN,A.B.EDMUNDSON	10/93
2FGW	FAB FRAGMENT OF A HUMANIZED VERSION OF THE ANTI-CD18 ANTIBODY 'H52'	C.EIGENBROT,J.KESSLER	1/94
1VFA	FV D1.3	T.NARAYANA BHAT,R.J.POLJAK	12/93
1VFB	FV D1.3 HEN EGG LYSOZYME COMPLEX	T.NARAYANA BHAT,R.J.POLJAK	12/93
1ITM	INTERLEUKIN 4 (IL-4)(HUMAN)	C.REDFIELD,L.J.SMITH,J.BOYD,G.MARK,P.LAWRENCE,R.G.EDWARDS, C.J.GERSHATER,R.A.G.SMITH,C.M.DOBSON	2/94
1HPI	HIGH-POTENTIAL IRON-SULFUR PROTEIN	M.M.BENNING,T.E.MEYER,I.RAYMENT,H.M.HOLDEN	12/93
1LOE	ISOLECTIN I	Y.BOURNE	1/93
1LOA	ISOLECTIN I/ALPHA-MET-GLUCOSE	Y.BOURNE	1/93
1LOB	ISOLECTIN I/ALPHA-MET-MANNOSE	Y.BOURNE	1/93
1LOD	ISOLECTIN I/MURAMIC ACID	Y.BOURNE	1/93
1LOC	ISOLECTIN I/MURAMYL-DIPEPTIDE(D-ALA-D-IGLN)	Y.BOURNE	1/93
1LOF	ISOLECTIN I/OCTASACCHARIDE	Y.BOURNE	1/93
1LOG	ISOLECTIN I/TRISACCHARIDE	Y.BOURNE	1/93
1BLP	BETA-LACTAMASE P54 MUTANT(D179N)	O.HERZBERG	9/93
1LCF	LACTOFERRIN (COPPER FORM MONO CARBONATE MONO OXALATE)	C.A.SMITH,B.F.ANDERSON,H.M.BAKER,E.N.BAKER	1/94
1HLC	LECTIN/LACTOSE	Y.D.LOBSANOV,M.A.GITT,H.LEFFLER,S.BARONDES,J.M.RINI	10/93
1LYS	LYSOZYME	K.HARATA	12/93
148L	LYSOZYME MUTANT(T26E,C54T,C97A)	R.KUROKI,L.H.WEAVER,B.W.MATTHEWS	10/93
1HMC	MACROPHAGE COLONY STIMULATING FACTOR(ALPHA FORM, SOLUBLE HUMAN)	A.BOHM,J.PANDIT,J.JANCARIK,R.HALENBECK,K.KOTHS,S.H.KIM	12/93
1MDR	MANDELATE RACEMASE	J.A.LANDRO,J.A.GERLT,J.W.KOZARICH,C.W.KOO,V.J.SHAH,G.L.KENYON, D.J.NEIDART,S.FUJITA,G.A.PETSKO	11/93
3AAH	METHANOL DEHYDROGENASE(METHYLOPHILIS W3A1)	Z.X.XIA,F.S.MATHEWS	10/93
1BET	BETA-NERVE GROWTH FACTOR	N.Q.MCDONALD,R.LAPATTO,J.MURRAY-RUST,J.GUNNING,A.WOLDAWER, T.L.BLUNDELL	4/93
1STI	NEUROTOXIN I (SHI)(NMR,8 STRUCTURES)	G.R.WILCOX,R.H.FOGH,R.S.NORTON	10/93
1STK	NEUROTOXIN I (SHI)(NMR,8 ENERGY MINIMIZED STRUCTURES)	G.R.WILCOX,R.H.FOGH,R.S.NORTON	10/93
1STJ	NEUROTOXIN I (SHI)(NMR,12 ENERGY MINIMIZED 'NEW' STRUCTURES)	G.R.WILCOX,R.H.FOGH,R.S.NORTON	10/93
1STL	NEUROTOXIN I (SHI)(NMR,12 ENERGY MINIMIZED 'NEW' STRUCTURES)	G.R.WILCOX,R.H.FOGH,R.S.NORTON	10/93
1AFN	NITRITE REDUCTASE	M.E.P.MURPHY,E.T.ADMAN,S.TURLEY	12/93
1NDL	NUCLEOSIDE DIPHOSPHATE KINASE	J.JANIN,M.CHIADMI,C.DUMAS,I.LASCU,G.LEBRAS,S.MORERA,M.VERON	11/93
1NDP	NUCLEOSIDE DIPHOSPHATE KINASE/ADP	J.JANIN,S.MORERA,C.DUMAS,I.LASCU,G.LEBRAS,M.VERON	11/93
1POU	OCT-1 POU-SPECIFIC DOMAIN (NMR, 20 STRUCTURES)	N.ASSA-MUNT,R.J.MORTISHIRE-SMITH,R.AURORA,W.HERR,P.E.WRIGHT	6/93
1PSS	PHOTOSYNTHETIC REACTION CENTER	A.J.CHIRINO,G.FEHER,D.C.REES	12/93
1PST	PHOTOSYNTHETIC REACTION CENTER MUTANT(H(M 202)L)	A.J.CHIRINO,G.FEHER,D.C.REES	12/93
1RPT	PROSTATIC ACID PHOSPHATASE(RAT)/VANADATE	Y.LINDQVIST,G.SCHNEIDER	11/93
1PCT	PROTEIN C (SERINE PROTEASE DOMAIN) EC 3.4.21.69	C.L.FISHER,J.S.GREENGARD,J.H.GRIFFIN	12/93
1PCU	PROTEIN C (SERINE PROTEASE DOMAIN) EC 3.4.21.69	C.L.FISHER,J.S.GREENGARD,J.H.GRIFFIN	12/93
1PGA	PROTEIN G (B1 IGG-BINDING DOMAIN)	T.GALLAGHER,P.ALEXANDER,P.BRYAN,G.L.GILLILAND	11/93
1PGB	PROTEIN G (B1 IGG-BINDING DOMAIN)	T.GALLAGHER,P.ALEXANDER,P.BRYAN,G.L.GILLILAND	11/93
1GDR	RESOLVASE(GAMMA DELTA)	P.A.RICE,T.A.STEITZ	8/93
2RSL	RESOLVASE(GAMMA DELTA)(LARGE FRAGMENT)	M.R.SANDERSON,P.S.FREEMENT,P.A.RICE,A.GOLDMAN,T.A.STEITZ	9/93
2HVT	REVERSE TRANSCRIPTASE	S.J.SMERDON,J.JAEGER,J.WANG,L.A.KOHLSTAEDT,A.J.CHIRINO, J.M.FRIEDMAN,P.A.RICE,T.A.STEITZ	11/93
1SSA	RIBONUCLEASE A/(F120L) ANALOG	V.S.J.DEMEL,M.S.DOSCHER,M.A.GLINN,P.D.MARTIN,M.L.RAM,B.F.P.EDWARDS	8/93
1SSB	RIBONUCLEASE A/(F120Y) ANALOG	V.S.J.DEMEL,M.S.DOSCHER,M.A.GLINN,P.D.MARTIN,M.L.RAM,B.F.P.EDWARDS	8/93
1DBP	D-RIBOSE-BINDING PROTEIN MUTANT(G72D)	S.L.MOWBRAY,A.J.BJORKMAN	1/94
1RLD	RIBULOSE-1,5-BISPHOSPHATE CARBOXYLASE/OXYGENASE (RUBISCO)	K.Y.J.ZHANG,D.EISENBERG	12/93
142D	RMD STRUCTURE OF [D(AGCTTGCCTTGAG)(CTCAAGGCAAGCT)	A.MUJEEB,T.L.JAMES	9/93
1SIS	SCORPION INSECTOTOXIN I5A	A.S.ARSENIEV,V.I.KONDAKOV,A.L.LOMIZE,V.N.MAIOROV,V.F.BYSTROV	11/93
1PCP	SPASMOLYTIC PROTEIN(PORCINE) (PSP)	M.D.CARR,C.J.BAUER,M.J.GRADWELL,J.FEENEY	2/94

Newly Deposited Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
1STN	STAPHYLOCOCCAL NUCLEASE	T.R.HYNES,R.O.FOX	2/93
4SOD	SUPEROXIDE DISMUTASE(HEPARIN-BINDING)	L.KUHN	1/93
8TLN	THERMOLYSIN(NATIVE)	B.W.MATTHEWS,M.A.HOLMES	9/93
1NRQ	ALPHA-THROMBIN/D-FPR'S	A.TULINSKY,I.I.MATHEWS	1/94
1NRP	ALPHA-THROMBIN/NR'S	A.TULINSKY,I.I.MATHEWS	1/94
1NRO	ALPHA-THROMBIN/NRP	A.TULINSKY,I.I.MATHEWS	1/94
1NRN	ALPHA THROMBIN/NRS	A.TULINSKY,I.I.MATHEWS	1/94
1NRS	HIRUGEN-THROMBIN/NRP	A.TULINSKY,I.I.MATHEWS	1/94
1NRR	PPACK-THROMBIN/XA	A.TULINSKY,I.I.MATHEWS	1/94
1TGX	TOXIN GAMMA CARDIOTOXIN CYTOTOXIN	A.BILWES,B.REES,D.MORAS	11/93
1TRK	TRANSKETOLASE	Y.LINDQVIST,G.SCHNEIDER,M.NIKKOLA	11/93
1ETA	TRANSTHYRETIN MUTANT(V30M)/THYROXINE	B.C.BRADEN,L.K.STEINRAUF,J.A.HAMILTON	5/93
1ETB	TRANSTHYRETIN MUTANT(A109T)/THYROXINE	B.C.BRADEN,L.K.STEINRAUF,J.A.HAMILTON	5/93
1TPH	TRIOSEPHOSPHATE ISOMERASE/ PHOSPHOGLYCOLOHYDROXAMATE	Z.ZHANG,S.SUGIO,E.A.KOMIVES,K.D.LIU,J.R.KNOWLES,G.A.PETSKO,D.RINGE	12/93
1TRR	TRP REPRESSOR/OPERATOR HALF-SITE TANDEM COMPLEX	C.L.LAWSON	10/93
1BRA	TRYPSIN MUTANT(D189G,G226D)/BENZAMIDINE	J.J.PERONA,M.E.MCGRATH,R.J.FLETTERICK	12/92
1BRC	TRYPSIN MUTANT(D189G,G226D)/BENZAMIDINE	J.J.PERONA,R.J.FLETTERICK	12/92
1BRB	TRYPSIN MUTANT(D189G,G226D)/BPTI	J.J.PERONA,R.J.FLETTERICK	12/92
1CGM	CUCUMBER GREEN MOTTLE MOSAIC VIRUS (CGMMV, WATERMELON STRAIN)	H.WANG,G.STUBBS	11/93
1CHC	EQUINE HERPES VIRUS-1 (C3HC4, OR RING DOMAIN)	P.N.BARLOW,R.D.EVERETT,B.LUISI	2/94
1VMO	VITELLIN MEMBRANE OUTER LAYER PROTEIN I (VMO-I)	T.SHIMIZU,D.G.VASSYLYEV,S.KIDO,Y.DOI,K.MORIKAWA	1/94
1XYA	XYLOSE ISOMERASE	A.LAVIE,K.N.ALLEN,G.A.PETSKO,D.RINGE	1/94
1XYB	XYLOSE ISOMERASE	A.LAVIE,K.N.ALLEN,G.A.PETSKO,D.RINGE	1/94
1XYC	XYLOSE ISOMERASE	A.LAVIE,K.N.ALLEN,G.A.PETSKO,D.RINGE	1/94
1XYL	XYLOSE ISOMERASE MUTANT(E180K)	K.N.ALLEN,A.LAVIE,G.A.PETSKO,D.RINGE	12/93
1XYM	XYLOSE ISOMERASE MUTANT(E180K)	K.N.ALLEN,A.LAVIE,G.A.PETSKO,D.RINGE	12/93
1ITN	INTERLEUKIN-1 RECEPTOR ANTAGONIST (IL1-RA) MODEL	B.VEERAPANDIAN	8/93

STRUCTURE FACTOR ENTRIES

R2CWGSF	AGGLUTININ(ISOLECTIN 1)/T-5 SIALOGLYCOPEPTIDE OF GLYCOPHORIN A	C.S.WRIGHT	2/92
R1HDXSF	ALCOHOL DEHYDROGENASE(BETA-1 ISOENZYME)/NAD(H)/ CYCLOHEXANOL	T.D.HURLEY,L.M.AMZEL	10/93
R1HDYSF	ALCOHOL DEHYDROGENASE(BETA-2 ISOENZYME)/ NAD+/4-IODOPURAZOLE	T.D.HURLEY,L.M.AMZEL	10/93
R1HDZSF	ALCOHOL DEHYDROGENASE MUTANT(R47G)/NAD+	T.D.HURLEY,L.M.AMZEL	10/93
R1ARRSF	ARC REPRESSOR	A.M.J.J.BONVIN,H.VIS,M.J.M.BURGERING,J.N.BREG,R.BOELENS,R.KAPTEIN	6/93
R1AAMSF	ASPARTATE AMINOTRANSFERASE	S.C.ALMO,D.L.SMITH,A.T.DANISHEFSKY,D.RINGE	3/92
R1ASLSF	ASPARTATE AMINOTRANSFERASE/ 2-METHYLASPARTYL-PYRIDOXAL-5'-PHOSPHATE	J.JAEGER,J.N.JANSONIUS	9/93
R1ASMSF	ASPARTATE AMINOTRANSFERASE PYRIDOXAL-5'-PHOSPHATE FORM/MALEATE	J.JAEGER,J.N.JANSONIUS	9/93
R1ASNSF	ASPARTATE AMINOTRANSFERASE PYRIDOXAL-5'-PHOSPHATE FORM/SULFATE	J.JAEGER,J.N.JANSONIUS	9/93
R1AIZSF	AZURIN(CADMIUM FORM)	E.N.BAKER,B.F.ANDERSON,K.A.BLACKWELL	1/94
R1OSASF	CALMODULIN	M.SUNDARALINGAM	8/93
R1HUGSF	CARBONIC ANHYDRASE I/GOLD CYANIDE	V.KUMAR,K.K.KANNAN	12/93
R1HUHSF	CARBONIC ANHYDRASE I/IODIDE	V.KUMAR,K.K.KANNAN	12/93
R1BCDSF	CARBONIC ANHYDRASE II/TRIFLUOROMETHANE SULPHONAMIDE	K.HAKANSSON,A.LILJAS	8/93
R1CHRSF	CHLOROMUCONATE CYCLOISOMERASE	H.HOIER,M.SCHLOEMANN,A.HAMMER,J.P.GLUSKER,H.L.CARRELL, A.GOLDMAN,J.J.STEZOWSKI,U.HEINEMANN	8/93
R1CHBSF	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
R1COSSF	COILED-SERINE(ALPHA-HELICAL BUNDLE)	B.LOVEJOY,S.CHOE,D.CASCIO,D.K.MCRORIE,W.DEGRADO,D.EISENBERG	4/93
R2CTVSF	CONCANAVALIN A(NATIVE FORM)	S.WEISGERBER,J.R.HELLIWELL	8/93
R1CDGSF	CYCLODEXTRIN GLYCOSYLTRANSFERASE	C.L.LAWSON,R.VAN MONTFORT,B.V.STROKOPYTOV,K.H.KALK, H.J.ROZEBOOM,B.W.DIJKSTRA	8/93
R1CRGSF	CYTOCHROME C (ISOZYME 1) (OXIDIZED) MUTANT(N52I,C102T)	A.M.BERGHUIS,G.D.BRAYER	8/93
R1CRISF	CYTOCHROME C (ISOZYME 1) (OXIDIZED) MUTANT(N52I,Y67F,C102T)	A.M.BERGHUIS,G.D.BRAYER	8/93
R1CRHSF	CYTOCHROME C (ISOZYME 1) (REDUCED) MUTANT(N52I)	A.M.BERGHUIS,G.D.BRAYER	8/93
R1CRJSF	CYTOCHROME C (ISOZYME 1) (REDUCED) MUTANT (N52I,Y67F,C102T)	A.M.BERGHUIS,G.D.BRAYER	8/93
R1CPTSF	CYTOCHROME P450TERP	C.A.HASEMANN,K.G.RAVICHANDRAN,J.A.PETERSON,J.DEISENHOFER	11/93
R133DSF	DNA(CGCG(M4C)G)	A.R.CERVI,A.GUY,G.A.LEONARD,R.TEOULE,W.N.HUNTER	7/93
R1PRPSF	DNA(CGCGAATTCGCG)/PROPAMIDINE	C.M.NUNN,T.C.JENKINS,S.NEIDLE	7/93
R137DSF	DNA(GCGGGCCCGC)(ORTHORHOMBIC CRYSTAL)	B.RAMAKRISHNAN,M.SUNDARALINGAM	9/93
R138DSF	DNA(GCGGGCCCGC)(HEXAGONAL CRYSTAL FORM)	B.RAMAKRISHNAN,M.SUNDARALINGAM	9/93
R145DSF	DNA(Z-CONFORMATION)	G.P.SCHROTH,T.F.KAGAWA,P.S.HO	11/93
R1LTASF	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
R1LTBSF	HEAT-LABILE ENTEROTOXIN (LT)PARTIALLY ACTIVATED BY TRYPSIN CLEAVAGE	E.A.MERRITT,T.K.SIXMA,W.G.J.HOL	9/93
R1ICNSF	INTESTINAL FATTY ACID BINDING PROTEIN, ARG 106>GLN MUTANT, WITH BOUND OLEATE	J.C.EADS,J.C.SACCHETTINI,A.KROMMINGA,J.I.GORDON	9/93

Newly Deposited Entries (cont.)

IDENT CODE	MOLECULE	DEPOSITOR(S)	ACCESSION DATE
R1ICMSF	INTESTINAL FATTY ACID BINDING PROTEIN WITH BOUND MYRISTATE (C14:0)	J.C.EADS,J.C.SACCHETTINI,A.KROMMINGA,J.I.GORDON	9/93
R2FKESF	FK-506 BINDING PROTEIN(HUMAN)/FK506	J.W.BECKER,B.M.MCKEEVER,J.ROTONDA	12/92
R1GOFSF	GALACTOSE OXIDASE	N.ITO,S.E.V.PHILLIPS,P.F.KNOWLES	7/93
R1GOGSF	GALACTOSE OXIDASE	N.ITO,S.E.V.PHILLIPS,P.F.KNOWLES	7/93
R1GOHSF	GALACTOSE OXIDASE (APO-FORM)	N.ITO,S.E.V.PHILLIPS,P.F.KNOWLES	7/93
R1GDASF	GLUCOCORTICOID RECEPTOR DNA BINDING DOMAIN GR-DBD	H.BAUMANN,K.PAULSEN,H.KOVACS,H.BERGLUND,A.P.H.WRIGHT, J.A.GUSTAFSSON,T.HARD	9/93
R1GSBSF	GLUTATHIONE S-TRANSFERASE(ISOENZYME 3-3)	J.-H.FU,J.P.ROSE,B.-C.WANG	9/93
R1GSCSF	GLUTATHIONE S-TRANSFERASE(ISOENZYME 3-3)	J.-H.FU,J.P.ROSE,B.-C.WANG	9/93
R1GDHSF	D-GLYCERATE DEHYDROGENASE(APO FORM)	J.D.GOLDBERG,T.YOSHIDA,P.BRICK	9/93
R1HCRSF	HIN RECOMBINASE(DNA-BINDING DOMAIN)/DNA	J.A.FENG,R.C.JOHNSON,R.E.DICKERSON	12/93
R2MIPSF	HIV-2 PROTEASE/INHIBITOR	L.TONG,S.PAV,C.PARGELLIS,F.DO,D.LAMARRE,P.C.ANDERSON	8/93
R1LOESF	ISOLECTIN I	Y.BOURNE	1/93
R1LOASF	ISOLECTIN I/ALPHA-MET-GLUCOSE	Y.BOURNE	1/93
R1LOBSF	ISOLECTIN I/ALPHA-MET-MANNOSE	Y.BOURNE	1/93
R1LODSF	ISOLECTIN I/MURAMIC ACID	Y.BOURNE	1/93
R1LOCSF	ISOLECTIN I/MURAMYL-DIPEPTIDE(D-ALA-D-IGLN)	Y.BOURNE	1/93
R1LOFSF	ISOLECTIN I/OCTASACCHARIDE	Y.BOURNE	1/93
R1LOGSF	ISOLECTIN I/TRISACCHARIDE	Y.BOURNE	1/93
R1LCFSF	LACTOFERRIN (COPPER FORM MONO CARBONATE MONO OXALATE)	C.A.SMITH,B.F.ANDERSON,H.M.BAKER,E.N.BAKER	1/94
R1PELSF	PEANUT LECTIN	R.BANERJEE,M.VIJAYAN	10/93
R1LYSSF	LYSOZYME	K.HARATA	12/93
R2MNRSF	MANDELATE RACEMASE(PSEUDOMONAS PUTIDA)	D.NEIDHART,G.PETSKO	8/93
R1YMCSF	CYANOMET-SULFMYOGLOBIN(HORSE HEART)	S.V.EVANS,G.D.BRAYER	9/93
R1YMBSF	METMYOGLOBIN(HORSE HEART)	S.V.EVANS,G.D.BRAYER	9/93
R1MYMSF	MYOGLOBIN(CARBON MONOXIDE)	T.LI,G.N.PHILLIPS JR.	10/93
R1YMASF	MYOGLOBIN(HORSE HEART) MUTANT(H64Y)	R.MAURUS,G.D.BRAYER	9/93
R2MGKSF	MYOGLOBIN(MET,CARBONMONOXY) MUTANT(D122N)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
R2MGASF	MYOGLOBIN(MET,CARBONMONOXY) MUTANT(D122N,H64G)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
R2MGCSF	MYOGLOBIN(MET,CARBONMONOXY) MUTANT(D122N,H64L)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
R2MGFSF	MYOGLOBIN(MET,CARBONMONOXY) MUTANT(D122N,H64Q)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
R2SPLSF	MYOGLOBIN(MET,CARBONMONOXY) MUTANT(D122N,L29F)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JR.	8/93
R2MGLSF	MYOGLOBIN(MET,DEOXY) MUTANT(D122N)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
R2MGDSF	MYOGLOBIN(MET,DEOXY) MUTANT(D122N,H64L)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
R2MGGSF	MYOGLOBIN(MET,DEOXY) MUTANT(D122N,H64Q)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
R2MGMSF	MYOGLOBIN(MET,OXY) MUTANT(D122N)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
R2SPNSF	MYOGLOBIN(MET,OXY) MUTANT(D122N,L29F)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JR.	8/93
R1MGNSF	MYOGLOBIN(MET) (MUTANT WITH INITIATOR MET AND WITH ASP 122)	M.S.HARGROVE,M.L.QUILLIN,G.N.PHILLIPS JR.	10/93
R2MGBSF	MYOGLOBIN(MET) MUTANT(D122N,H64G)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
R2MGESF	MYOGLOBIN(MET) MUTANT(D122N,H64L)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
R2MGHSF	MYOGLOBIN(MET) MUTANT(D122N,H64Q)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
R2MGISF	MYOGLOBIN(MET) MUTANT(D122N,H64T)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
R2MGJSF	MYOGLOBIN(MET) MUTANT(D122N,H64V)	M.L.QUILLIN,R.A.ARDUINI,G.N.PHILLIPS JR.	8/93
R2SPMSF	MYOGLOBIN(MET) MUTANT(D122N,L29F)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JR.	8/93
R2SPOSF	MYOGLOBIN(MET) MUTANT(D122N,L29V)	M.L.QUILLIN,R.M.ARDUINI,G.N.PHILLIPS JR.	8/93
R1ONCSF	P-30 PROTEIN	S.C.MOSIMANN,W.ARDELT,M.N.G.JAMES	8/93
R1ARPSF	PEROXIDASE(ARTHROMYCES RAMOSUS)	N.KUNISHIMA,K.FUKUYAMA	6/93
R2PLTSF	PLASTOCYANIN	M.R.REDINBO,S.MERCHANT,T.O.YEATES	4/93
R1PNCSF	PLASTOCYANIN	B.A.FIELDS,J.M.GUSS,H.C.FREEMAN	9/93
R2PKCSF	PROTEINASE K (EC 3.4.21.14) CALCIUM-FREE FORM	A.MUELLER,W.M.WOLF,W.HINRICHS,W.SAENGER	5/93
R1POWSF	PYRUVATE OXIDASE	Y.A.MULLER,G.E.SCHULZ	11/93
R1POXSF	PYRUVATE OXIDASE MUTANT(P178S,S188N,A458V)	A.Y.MULLER,G.E.SCHULZ	11/93
R1BSRSF	RIBONUCLEASE(BOVINE,SEMINAL)	L.MAZZARELLA	5/93
R1ROBSF	RIBONUCLEASE A/CYTIDYLIC ACID	J.N.LISGARTEN,R.A.PALMER	8/93
R1RLDSF	RIBULOSE-1,5-BISPHOSPHATE CARBOXYLASE/OXYGENASE (RUBISCO)	K.Y.J.ZHANG,D.EISENBERG	1/94
R1SBPSF	SULFATE-BINDING PROTEIN	J.S.SACK,F.A.QUIOCHO	7/93
R1TGXSF	TOXIN GAMMA CARDIOTOXIN CYTOTOXIN	A.BILWES,B.REES,D.MORAS	11/93
R1ETASF	TRANSTHYRETIN MUTANT(V30M)/THYROXINE	B.C.BRADEN,L.K.STEINRAUF,J.A.HAMILTON	5/93
R1ETBSF	TRANSTHYRETIN MUTANT(A109T)/THYROXINE	B.C.BRADEN,L.K.STEINRAUF,J.A.HAMILTON	5/93
R1TOPSF	TROPONIN C(CHICKEN)	M.SUNDARALINGAM	8/93
R1MCTSF	TRYPSIN/TRYPSIN INHIBITOR	Q.HUANG,S.LIU,Y.TANG	10/92
R1TBESF	TETRAUBIQUITIN	W.J.COOK,L.C.JEFFERY,E.KASPEREK,C.M.PICKART	10/93
R1CASSF	PARVOVIRUS(CANINE) CAPSID(STRAIN D, VIRAL PROTEIN 2)	H.WU,M.G.ROSSMANN	7/93
NMR ENTRIES			
R1LCCMR	LAC REPRESSOR N-TERMINAL FRAGMENT/ 11 BASE PAIR HALF-OPERATOR(NMR,BEST STRUCTURE)	V.P.CHUPRINA,J.A.C.RULLMANN,R.M.J.N.LAMERICHS,J.H.VAN BOOM, R.BOELENS,R.KAPTEIN	3/93
R2IGGMR	PROTEIN G(SECOND IGG-BINDING DOMAIN) (NMR,27 STRUCTURES)	L.Y.LIAN,J.P.DERRICK,M.J.SUTCLIFFE,J.C.YANG,G.C.K.ROBERTS	6/92
R2IGHMR	PROTEIN G(THIRD IGG-BINDING DOMAIN)(NMR,24 STRUCTURES)	L.Y.LIAN,J.P.DERRICK,M.J.SUTCLIFFE,J.C.YANG,G.C.K.ROBERTS	6/92
R1RPRMR	ROP(COL E1) (NMR,10 STRUCTURES)	W.EBERLE,A.PASTORE,W.KLAUS,C.SANDER.P.ROESCH	10/91

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