

Two new staff members are joining the Protein Data Bank this Fall. Jennie Weng, a programmer with experience in microcomputers and software distribution, arrived at Brookhaven this month. Jennie will be the system manager for our new MicroVAX II computer system which will be delivered toward the end of this year. In December, Stephen Bryant will also join the Data Bank, as a Senior Research Associate. We are extremely pleased that Jennie and Stephen are coming on board. With our new larger staff, we hope to be able to provide valuable new services in 1987.

Inquiries may be addressed to any of the persons listed below. The order form on pages 5-6 of this newsletter may be used to order data from Brookhaven. With the start of a new fiscal year, a modest price increase has been implemented to allow for increased costs, and the new prices are indicated on the order form. Please note that this form should be used only for Brookhaven orders; users in Japan or Australia should contact their centers for detailed information.

<u>Area</u>	<u>Address of Center</u>	<u>Name</u>	<u>Name</u>
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TABLE 8. PROTEIN DATA BANK, ATOMIC COORDINATE HOLDINGS

IDENT CODE	MOLECULE	DEPOSITOR(S)	DATE/STATUS
4APE	ACID PROTEINASE (ENDOTHTA PARASITICA)	T. BLUNDELL	6/86 R
2APP	ACID PROTEINASE (PENICILLIUM ANTHINELLUM)	A. SIELECKI, M. JAMES	1/83
1APP	ACID PROTEINASE (RHIZOPUS CHINENSIS)	D. DAVIES	8/79
2ACT	ACTININ	E. BAKER	11/79
1ACX	ACTINONOXANTHIN	V. PLETNEV, A. KUZIN	12/82
2ADK	ADENYLATE KINASE (PORCINE MUSCLE)	G. SCHULZ	9/77
1AGA	AGAROSE	S. ARNOTT	5/78
3MGA	AGGLUTININ (WHEAT GERM, ISOLECTIN 2)	C. WRIGHT	3/86 R
4ADH	ALCOHOL DEHYDROGENASE (APO)	C. -I. BRANDEN	8/79
5ADH	ALCOHOL DEHYDROGENASE (APO)/ADP-RIBOSE	H. EKUND, T. A. JONES	1/84
6ADH	ALCOHOL DEHYDROGENASE (HPO)/NADH/DMSO	H. EKUND	1/84
7ADH	ALCOHOL DEHYDROGENASE (ISONICOTINIMIDYLATED)	B. PLAPP, H. EKUND	1/84
2ALP	ALPHA-LYTIC PROTEASE	M. FUJINAGA, M. JAMES	3/85 R
2TAA	TAKA-AMYLASE	KUSUNOKI, MATSUURA, KAKUDO	10/82
5AP1	ALPHA-1-ANTI-TRYP SIN (MODIFIED, TETRAGONAL)	R. HUBER ET AL.	10/84
6AP1	ALPHA-1-ANTI-TRYP SIN (MODIFIED, HEXAGONAL)	R. HUBER ET AL.	10/84
1ABP	L-ARABINOSE-BINDING PROTEIN	F. QUICHO, G. GILLILAND	5/80
1IAT	CYTOSOLIC ASPARTATE AMINOTRANSFERASE	HARUTYUNYAN, MALASHKEVICH	4/82 A
2ATC	ASPARTATE CARBA MOYL TRANSFERASE	W. LIPSCOMB	3/82
*ATC	ASPARTATE CARBA MOYL TRANSFERASE/CTP	W. LIPSCOMB	4/84
5ATC	ASPARTATE CARBA MOYL TRANSFERASE	W. LIPSCOMB	4/84
1AZA	AZURIN (ALCALIGENES DENITRIFICANS)	E. ADMAN, G. NORRIS	5/84
1AZU	AZURIN (PSEUDOMONAS AERUGINOSA)	E. ADMAN, L. SIEKER, L. JENSEN	4/84
2BCL	BACTERIOCHLOROPHYLL A-PROTEIN	B. MATTHEWS	1/79 A
2BAX	ALPHA-BUNGAROTOXIN	R. LOVE, R. STROUD	2/86 R
1ICV	CALCIUM-BINDING PARVALBUMIN SET 6A	R. KRETSINGER	8/74
2CPV	CALCIUM-BINDING PARVALBUMIN SET 6B	R. KRETSINGER	8/74
3CPV	CALCIUM-BINDING PARVALBUMIN SET 6I	R. KRETSINGER	8/74
31CB	*CALCIUM-BINDING PROTEIN (INTESTINAL)	D. SZEBENYI, K. MOFFAT	9/86 R
1CAP	CAPSULAR POLYSACCHARIDE (E. COLI M41)	S. ARNOTT	5/78
2CAB	CARBONIC ANHYDRASE B (HUMAN)	K. KANNAN	10/83
1CAC	CARBONIC ANHYDRASE C (HUMAN)	K. KANNAN	5/76
3CPA	CARBOXYPEPTIDASE A (HUMAN)	D. REES, H. LIPSCOMB	3/82
4CPA	CARBOXYPEPTIDASE A/POTATO INHIBITOR	D. REES, H. LIPSCOMB	3/82
5CPA	CARBOXYPEPTIDASE A/WATER (BOVINE)	D. REES, H. LIPSCOMB	5/82
1CPB	CARBOXYPEPTIDASE B (BOVINE)	M. SCHMID, J. HERRIOTT	6/76 A
1PTE	D-ALANYL-CARBOXYPEPTIDASE-TRANSEPTIDASE	J. KELLY, J. KNOX, P. MOEHS	10/85 A
1CAR	CARRAGEENAN	S. ARNOTT	5/78
7CAT	CATALASE (BEEF LIVER)	I. FITA, M. ROSSMANN	11/84
8CAT	CATALASE (BEEF LIVER)	I. FITA, M. ROSSMANN	11/84
4CAT	CATALASE (PENICILLIUM VITALE)	B. VAINSHTEIN ET AL.	2/83 B
1CVS	CHONDROITIN-4-SULFATE	S. ARNOTT	5/78
2CVS	CHONDROITIN-6-SULFATE (CA SALT)	S. BLONN	5/78
2CHA	ALPHA-CHYMOTRYPSIN (BOVINE)	D. BLOH	1/75
4CHA	ALPHA-CHYMOTRYPSIN (BOVINE)	H. TSUKADA, D. BLOH	11/84
5CHA	ALPHA-CHYMOTRYPSIN (BOVINE)	R. BLEVINS, A. TULINSKY	11/84
2GCH	GAMMA-CHYMOTRYPSIN	COHEN, DAVIES, SILVERTON	9/77 R
1CHG	CHYMOTRYPSINOGEN	J. KRAUT, J. BIRKTOFF	3/75
1CT5	CITRATE SYNTHASE (PIG)	REMINGTON, WIEGAND, HUBER	1/84
2CT5	CITRATE SYNTHASE (PIG, COA, CITRATE CMPLX)	REMINGTON, WIEGAND, HUBER	1/84
3CT5	CITRATE SYNTHASE (CHICKEN, COA, CITRATE)	REMINGTON, WIEGAND, HUBER	1/84
4CT5	CITRATE SYNTHASE (PIG, OXALOACETATE CMPLX)	REMINGTON, WIEGAND, HUBER	1/84
1CTX	ALPHA COBRATOXIN	W. SAENGER, M. WALKINSHAW	3/82
2CNA	CONCAVALIN A	G. REEKE, J. BECKER, G. EDELMAN	4/75
3CNA	CONCAVALIN A (1000-0036-3(PRIME))	K. HARDMAN	9/76
1CNI	CONCAVALIN A (DEMETALLIZED)	M. SHOCHAN	12/81
1CRN	CRABMIN	H. HENDRICKSON, M. TEETER	6/81
1GCR	GAMMA-I1 CRYSTALLIN (CALF)	T. BLUNDELL	8/85
2BSC	CYTOCHROME B5 (OXIDIZED)	F. S. MATHEWS	12/77
15B8	CYTOCHROME B56A (CYTOC. OXIDIZED)	BETHGE, CZERWINSKI, MATHEWS	8/79
3CVT	CYTOCHROME C1 (BALBORE, OXIDIZED)	T. TAKANO, R. DICKERSON	7/80
4CVT	CYTOCHROME C1 (BALBORE, REDUCED)	T. TAKANO, R. DICKERSON	7/80
1CYC	CYTOCHROME C (BONITO, HEART)	M. KAKUDO	8/76
1OCR	CYTOCHROME C (RICE)	H. OCHI, N. TANAKA	8/85 R
2CCY	CYTOCHROME C (PRIME)	B. FINZEL ET AL.	8/85 R
2CC2	CYTOCHROME C2 (OXIDIZED (YEAST))	B. FINZEL, T. POULOS, J. KRAUT	11/83
3CC2	CYTOCHROME C2 (OXIDIZED)	G. BHATIA, B. FINZEL, J. KRAUT	11/83
3CC2C	CYTOCHROME C2 (REDUCED)	G. BHATIA, B. FINZEL, J. KRAUT	11/83
1CY3	CYTOCHROME C3	R. HASER, M. FREY, F. PAYAN	6/85
2CDV	CYTOCHROME C3 (DESULFOVIBRIO VULGARIS)	N. YASUKUO, M. KAKUDO	11/83
1CC5	CYTOCHROME C5 (OXIDIZED, AZOTOBACTER VULO)	C. D. STOUT, D. CARTER	8/84
15C5	CYTOCHROME C551 (OXIDIZED)	R. TIMKOVICH	8/76
351C	CYTOCHROME C551 (OXIDIZED)	M. SHOCHAN, TAKANO, DICKERSON	7/81
451C	CYTOCHROME C551 (REDUCED)	MATSUURA, TAKANO, DICKERSON	7/81
1CPP	CYTOCHROME P450 (CAM, PSEUDOMONAS PUTIDA)	T. POULOS ET AL.	11/85
3DFR	DIHYDROFLATE REDUCTASE (L. CASEI)	J. BOLIN, D. MATTHEWS, J. KRAUT	6/82
4DFR	DIHYDROFLATE REDUCTASE (E. COLI)	J. BOLIN, D. MATTHEWS, J. KRAUT	6/82
1ANA	DNA (A, 5(PRIME))	B. CONNER, R. DICKERSON	6/82
2ANA	DNA (A, GGGGGCCC, SYNTHETIC)	M. MCCALL, T. BROUN, O. KENNARD	8/85
1BNA	DNA (B, CGCGAATTCGGC, SYNTHETIC, 290 DEG K)	H. DREW, R. DICKERSON	11/81
2BNA	DNA (B, CGCGAATTCGGC, SYNTHETIC, 16 DEG K)	H. DREW, R. DICKERSON	11/81
3BNA	DNA (B, 9-BR-CGCGAATTCGGC, SYNTH, 20 DEG C)	KOPKA, FRATINI, DICKERSON	2/82
4BNA	DNA (B, 9-BR-CGCGAATTCGGC, SYNTH, 7 DEG C)	KOPKA, FRATINI, DICKERSON	2/82
5BNA	DNA (B, CGCGAATTCGGC, SYNTHETIC) (CISPLATIN)	H. NINGS, PUJRA, DREW, DICKERSON	8/83
6BNA	DNA (B, 9-BR-CGCGAATTCGGC, SYNTH) (NETROPSIN)	M. KOPKA, R. DICKERSON	8/84
7BNA	DNA (B, CGCGAATTCGGC, ANISO TEMP FACTORS)	HOLBROOK, DICKERSON, KIM	1/85
1ZNA	DNA-Z (PRIME), CGCG, HIGH-SALT, SYNTHETIC)	H. DREW, R. DICKERSON	1/81
2GNS	GENE-S DNA BINDING PROTEIN	G. BRAY, A. MCPHERSON	1/86 R
1EST	ELASTASE (PORK, UNREFINED)	H. WATSON	5/76
2EST	ELASTASE-TFAP COMPLEX (PORCINE)	L. SIEKER, D. HUGHES	3/86
2EBX	ERABUTOXIN (B SNAKE)	B. LOW	9/85
1ECD	ERYTHROCUORIN (REDUCED, DEOXY)	W. STEIGMANN, E. WEBER	3/79
1ECO	ERYTHROCUORIN (CARBONMONOXY)	W. STEIGMANN, E. WEBER	3/79
1ECN	ERYTHROCUORIN (AGUO, MET)	W. STEIGMANN, E. WEBER	3/79
1ECN	ERYTHROCUORIN (HUMAN, DEOXY)	W. STEIGMANN, E. WEBER	3/79
2FD1	FERREDOXIN (AZOTOBACTER VINELANDII)	C. STOUT, G. GHOSH, FUREY, O'DONNELL	11/81
1FDX	FERREDOXIN (PEPTOCOCCUS AERGENESIS)	E. ADMAN, L. SIEKER, L. JENSEN	11/81
3FXC	FERREDOXIN (SPIRULINA PLATENSIS)	TSUKIHARA, KATSUBE, KAKUDO	12/81
3FXN	FLAVODOXIN (CLOSTRIDIUM MP, OXIDIZED)	M. LUDWIG	12/77
1HDS	FLAVODOXIN (CLOSTRIDIUM MP, SEMIQUINONE)	M. LUDWIG	12/77
1FX1	FLAVODOXIN (E. VULGARIS, UNREFINED)	W. KATENPAUGH, SIEKER, JENSEN	10/84
1G8P	GALACTOSE-BINDING PROTEIN	S. MOMBRAY, G. PETSKO	3/86 A
1GAP	CATABOLITE GENE ACTIVATOR PROTEIN/CAMP	I. WEBER, T. STEITZ	3/86
2GAP	CATABOLITE GENE ACTIVATOR PTD/DNA (MODEL)	I. WEBER, T. STEITZ	3/86
3CN	GLUCAGON	T. BLUNDELL	10/77
1PG1	GLUCOSE-6-PHOSPHATE ISOMERASE	H. MUIRHEAD	7/77 A
1GP1	GLUTATHIONE PEROXIDASE (BOVINE)	G. EPP, R. LADENSTEIN	6/85
2GRS	GLUTATHIONE REDUCTASE (HUMAN)	G. SCHULZ	11/81
1GPD	GLYCERALDEHYDE-3-P-DEHYDROGENASE (LOBSTR)	M. ROSSMANN	7/75
2GPD	GLYCERALDEHYDE-3-P-DEHYDROGENASE (HUMAN)	M. ROSSMANN	12/79
3GPD	GLYCERALDEHYDE-3-P-DEHYDROGENASE (HUMAN)	H. WATSON, J. CAMPBELL	6/83
1HG	HEMAGGLUTININ (INFLUENZA VIRUS)	D. WILEY	6/86
1HR8	HEMERYTHRIN B	H. HENDRICKSON	6/76 A
1HMQ	HEMERYTHRIN (AZIDO, MET)	STENKAMP, SIEKER, JENSEN	2/83
1HR2	HEMERYTHRIN (AZIDO, MET, SIPHONOSOMA)	SMITH, HENDRICKSON, ADDISON	5/83
1HDS	HEMODOXIN (DEER, SICKLE CELL)	E. AMHA, R. GIRLING	10/79
2HB	HEMOGLOBIN (HORSE, AGUO, MET)	R. LADNER, HEIDNER, PERUTZ	2/77
20HB	HEMOGLOBIN (HORSE, DEOXY)	M. PERUTZ, G. FERMI	3/84
2HBH	HEMOGLOBIN (HUMAN, DEOXY)	G. FERMI, M. PERUTZ	3/84
3HBH	HEMOGLOBIN (HUMAN, DEOXY, SYMMETRY AVROD)	G. FERMI, M. PERUTZ	3/84
4HBH	HEMOGLOBIN (HUMAN, DEOXY, UNRESTRAINED)	G. FERMI, M. PERUTZ	3/84
1HCO	HEMOGLOBIN (HUMAN, CARBONMONOXY)	J. BALDWIN	8/79
2HCO	HEMOGLOBIN (HUMAN, CARBONMONOXY, NRG REFND)	B. SHALANIN	8/79
1HCH	HEMOGLOBIN (HUMAN, OXY)	B. SHALANIN	8/79
1FDH	HEMOGLOBIN (HUMAN, FETAL, DEOXY)	J. FRIER	8/76
1HBS	HEMOGLOBIN S (HUMAN, SICKLE CELL)	E. PADLAN, W. LOVE	6/82
2LHB	HEMOGLOBIN V (CYANO, MET, SEA LAMPREY)	HONZATKO, HENDRICKSON, LOVE	8/85 R
2YXH	HEXOKINASE (YEAST) FORM B (11)	STEITZ, ANDERSON, STENKAMP	3/78
1HK6	HEXOKINASE A - GLUCOSE COMPLEX (YEAST)	W. BENNETT JR., T. STEITZ	12/80
1HP	HIGH POTENTIAL IRON PROTEIN	J. KRAUT	4/75
1HYA	HYALURONIC ACIDIN A SALT, 3-FOLD HELIX	S. ARNOTT	11/77
2HYA	HYALURONIC ACIDIN A SALT, 2-FOLD HELIX	S. ARNOTT	5/78
3HYA	HYALURONIC ACIDIN A SALT, 2-FOLD HELIX	S. ARNOTT	5/78
4HYA	HYALURONIC ACIDIN A SALT, 3-FOLD HELIX	S. ARNOTT	5/78
1FBJ	IGA FAB (KAPPA) J539	T. BHAT, D. DAVIES ET AL.	6/86
1MCP	IGA FAB (KAPPA) MCP603	SATOH, COHEN, PADLAN, DAVIES	7/84
2MCP	IGA FAB (KAPPA) MCP603/PHOSPHOCHOLINE	E. PADLAN, G. COHEN, D. DAVIES	10/84
1FBH	IMMUNOGLOBULIN G1 (LAMBDA) KOL	M. MARQUART, R. HUBER	5/83
3FAB	IMMUNOGLOBULIN IN FAB (PRIME) JAK	R. POLJAK, R. HUBER	9/81
1MCG	IMMUNOGLOBULIN B-J INTACT MCG	SCHIFFER, EDMUNDSON ET AL.	5/78
1REI	IMMUNOGLOBULIN B-J FRAGMENT (V-DIMER) REI	O. EPP, R. HUBER	3/76
2RHE	IMMUNOGLOBULIN B-J FRAGMENT (V-MINOR) RHE	FURRY, HANG, YOO, SAX	6/83
1FC1	IMMUNOGLOBULIN IN FC (HUMAN)	J. DEISENHOFER	5/81
1FC2	IMMUNOGLOBULIN IN FC-FRAGMENT B COMPLEX	J. DEISENHOFER	5/81
1PFG	IGG PFC FRAGMENT	L. M. AMZEL	10/81
1IG2	IMMUNOGLOBULIN G1 (LAMBDA) KOL	M. MARQUART, R. HUBER	5/83
1INS	INSULIN (PORCINE, 2-ZINC)	G. DODSON, D. HODGKIN	7/80
2INS	INSULIN (BOVINE, 2-2-ZINC) DES-PHE BI	C. REYNOLDS, G. DODSON	5/82
2KAI	KALLIKREIN A (PORCINE)/PTI (BOVINE)	W. BODE, Z. CHEN	5/84
1KGA	KOPG ALDOLASE	R. POLJAK, Z. CHEN	8/78
1KES	KERATAN SULFATE	A. TULLINSKY	5/78
3LHD	LACTATE DEHYDROGENASE (DOGFISH)	M. EVENTOFF, M. ROSSMANN	4/77
3LDH	LACTATE DEHYDROGENASE (NAD/PYRUVATE) (DOGF)	M. ROSSMANN	11/74
5LDH	LACTATE DEHYDROGENASE (YAB-25)	U. GRAU, M. ROSSMANN	10/80
1LDX	LACTATE DEHYDROGENASE (MOUSE TESTES)	H. WILSON	9/78
1LH1	LEGHEMOGLOBIN (ACETATE MET)	VAINSHTEIN, HARUTYUNYAN	4/82
2LH1	LEGHEMOGLOBIN (ACETATE MET)	VAINSHTEIN, HARUTYUNYAN	4/82
1LH2	LEGHEMOGLOBIN (AGUO MET)	VAINSHTEIN, HARUTYUNYAN	4/82
2LH2	LEGHEMOGLOBIN (AGUO MET)	VAINSHTEIN, HARUTYUNYAN	4/82
1LH3	LEGHEMOGLOBIN (CYANO MET)	VAINSHTEIN, HARUTYUNYAN	4/82
2LH3	LEGHEMOGLOBIN (CYANO MET)	VAINSHTEIN, HARUTYUNYAN	4/82
1LH4	LEGHEMOGLOBIN (DEOXY)	VAINSHTEIN, HARUTYUNYAN	4/82
2LH4	LEGHEMOGLOBIN (DEOXY)	VAINSHTEIN, HARUTYUNYAN	4/82
1LH5	LEGHEMOGLOBIN (FLUORO MET)	VAINSHTEIN, HARUTYUNYAN	4/82
1LH6	LEGHEMOGLOBIN (NICOTINATE MET)	VAINSHTEIN, HARUTYUNYAN	4/82
2LH6	LEGHEMOGLOBIN (NICOTINATE MET)	VAINSHTEIN, HARUTYUNYAN	4/82
1LH7	LEGHEMOGLOBIN (FERRO)/NITROSOBENZENE	VAINSHTEIN, HARUTYUNYAN	4/82
2LH7	LEGHEMOGLOBIN (FERRO)/NITROSOBENZENE	VAINSHTEIN, HARUTYUNYAN	4/82
2LH8	LEGHEMOGLOBIN (BACTERIOPHAGE T4)	L. WEAVER, B. MATTHEWS	8/86 F
1LH9	LYSOZYME (HEN EGG-WHITE, SET W2)	R. DIAMOND, D. PHILLIPS	2/75
2LH9	LYSOZYME (HEN EGG-WHITE, SET R5SD)	R. DIAMOND, D. PHILLIPS	2/75
3LH9	LYSOZYME (HEN EGG-WHITE, SET R5SA)	R. DIAMOND, D. PHILLIPS	2/75
4LH9	LYSOZYME (HEN EGG-WHITE, SET R5SA)	R. DIAMOND, D. PHILLIPS	2/75
5LH9	LYSOZYME (HEN EGG-WHITE, SET R5A2)	R. DIAMOND, D. PHILLIPS	2/75
6LH9	LYSOZYME (HEN EGG-WHITE, SET R5B1)	R. DIAMOND, D. PHILLIPS	2/75
7LH9	LYSOZYME (HEN EGG-WHITE, TRICLINIC)	A. YONAH	5/77
1LH2	LYSOZYME (HEN EGG-WHITE, TRICLINIC)	HODSDON, BROHN, SIEKER, JENSEN	1/85
8LH9	LYSOZYME (HEN EGG-WHITE, INACTIVATED)	S. OATLEY	9/77
9LH9	LYSOZYME (HEN, NAM-NAG-NAM SUBSTRATE ONLY)	J. KELLY, M. JAMES	12/79
1LH2	LYSOZYME (HEN EGG-WHITE, MONOCLINIC)	ARTYMIUK, BLAKE, RICE, WILSON	6/81 A
2LH2	LYSOZYME (HEN EGG-WHITE, ORTHORHOMBIC)	ARTYMIUK, BLAKE, RICE, WILSON	6/81 A
1LM	LYSOZYME (HEN EGG-WHITE, MONOCLINIC)	HOLC, RAO, SUNDARALINGAM	7/82
1L21	LYSOZYME (HUMAN)	P. ARTYMIUK, C. BLAKE	10/84
1L22	LYSOZYME (TURKEY EGG-WHITE)	R. BOTT, R. SARMA	9/81 A
2MDH	MALATE DEHYDROGENASE	J. BIRKTOFF, L. BANASZAK	3/83
1MLT	MELITTIN	TERWILLIGER, EISENBERG	8/81
2MT2	CD ZN METALLOTHIONEIN (ISOFORM 1)	C. D. STOUT	10/85 F
1MB5	MYOGLOBIN (SEAL, MET)	H. SCULLOUD	4/73
1MBN	MYOGLOBIN (SPERM WHALE, MET)	H. WATSON	9/76
2MBN	MYOGLOBIN (SPERM WHALE, MET)	T. TAKANO	9/76
3MBN	MYOGLOBIN (SPERM WHALE, DEOXY)	S. PHILLIPS	8/81
1MBD	MYOGLOBIN (SPERM WHALE, DEOXY)	S. PHILLIPS	8/81
1MBE	MYOGLOBIN (SPERM WHALE, DEOXY)	S. PHILLIPS	8/81
1MB6	MYOGLOBIN (SPERM WHALE, CO, NEUTRON)	HANSON, NORVELL, SCHOENBORN	6/76
1MHR	MYOHEMERYTHRIN	W. HENDRICKSON	6/80
1NKB	NEUROTOXIN BILATICAUDA SEMIFASCIATA)	D. TERNOGLOU, G. PETSKO	8/80
1NS3	SCORPIN NEUROTOXIN (VARIANT 3)	C. BURG ET AL.	12/82
2OVC	OVUMUCOID THIRD DOMAIN (JAPANESE QUAIL)	E. PAPANIKOLAOU, R. HUBER	1/82
20V0	OVUMUCOID THIRD DOMAIN (SILVER PHEASANT)	O. EPP	6/85
1PPT	AVIAN PANCREATIC POLYPEPTIDE	T. BLUNDELL	8/76
8PAP	PAPAIN (NATIVE)	J. DRENTH	11/76

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2TGA	TRYPSINOGEN(2.4M MOSO4)	J. WALTER, R. HUBER, W. BODE	10/81
1TGC	TRYPSINOGEN(.5 CH3OH, .5 HOH)	J. WALTER, R. HUBER, W. BODE	10/81
1TGT	TRYPSINOGEN(173 DEG K, .7 CH3OH, .3 HOH)	J. WALTER, R. HUBER, W. BODE	10/81
2TGT	TRYPSINOGEN(103 DEG K, .7 CH3OH, .3 HOH)	J. WALTER, R. HUBER, W. BODE	10/81
1TGB	TRYPSINOGEN(WITH CA, FROM PEG)	BODE, FEHLHAMMER, HUBER	3/79
2TGD	TRYPSINOGEN(DIP-INHIBITED, BOVINE)	M. JONES, R. STROUD	3/86
2TGP	TRYPSINOGEN/TRYPSIN INHIBITOR	R. HUBER ET AL.	9/82
3TPI	TRYPSINOGEN/TRYPSIN INHIBITOR/ILE-VAL	R. HUBER ET AL.	9/82
2TPI	TRYPSINOGEN/PTI/ILE-VAL (MERCURATED)	J. WALTER, R. HUBER, W. BODE	10/81
4TPI	TRYPSINOGEN/ARG-15-PTI/VAL-VAL	H. BODE, J. WALTER	6/85
1TGS	TRYPSINOGEN/PSI	R. HUBER ET AL.	9/82
1TS1	TYROSYL TRANSFER RNA SYNTHETASE	BHAT, BLOW, BRICK, NYBORG	7/82 A
2RHV	RHINOVIRUS 14 (HUMAN)	ROSSMANN, ARNOLD, VRIEND	4/85
2STV	VIRUS (SATELLITE TOBACCO NECROSIS)	T. A. JONES, L. LILJAS	6/84
4SBV	VIRUS COAT PROTEIN (SOUTHERN BEAN MOSAIC)	M. ROSSMANN	4/85 R
2TBV	VIRUS (TOMATO BUSHY STUNT)	S. HARRISON	6/84

MODEL STRUCTURES

2ZNA	DNA (Z-1, CCGCCG, SYNTHETIC, MODEL)	A. RICH	2/81
3ZNA	DNA (Z-11, CCGCCG, SYNTHETIC, MODEL)	A. RICH	2/81
1DNN	DNA (ATCGGCTAAG, . . . , MODEL)	J. SUSSMAN, E. TRIFONOV	11/82
11GE	IMMUNOGLOBULIN E (FC FRAGMENT) MODEL	E. PADLAN, D. DAVIES	1/85
1GF1	INSULIN-LIKE GROWTH FACTOR I (MODEL)	BLUNDELL, BEDARKAR, HUMBEL	12/82
1GF2	INSULIN-LIKE GROWTH FACTOR II (MODEL)	BLUNDELL, BEDARKAR, HUMBEL	12/82
1HLP	MURFIN LIPOPROTEIN (MODEL)	A. MCLACHLAN	8/78
1RLX	RELAXIN (MODEL, CONFORMATION A, UNREFINED)	A. EVANS, A. NORTH	3/78
2RLX	RELAXIN (MODEL, CONFORMATION B, UNREFINED)	A. EVANS, A. NORTH	3/78
3RLX	RELAXIN (MODEL, CONFORMATION A, REFINED)	A. EVANS, A. NORTH	3/78
4RLX	RELAXIN (MODEL, CONFORMATION B, REFINED)	A. EVANS, A. NORTH	3/78
1TNC	TROPONIN (CA-BINDING COMPONENT, MODEL)	R. KRETSINGER, C. D. BARRY	6/80 A

\* NEW OR REPLACEMENT ENTRY SINCE JUL-86 NEWSLETTER

STATUS CODES

BLANK	STANDARD ENTRY AVAILABLE FOR DISTRIBUTION
A	ALPHA CARBON ATOMS ONLY
B	BACKBONE ONLY
R	RECENT (1985-1986) REPLACEMENT FOR AN OUT-OF-DATE PARAMETER SET

TABLE 9. COORDINATE AND STRUCTURE FACTOR ENTRIES IN PREPARATION

IDENT CODE	MOLECULE	DEPOSITOR(S)	DATE/STATUS
6ATC	*ASPARTATE CARBAMOYLTRANSFERASE/PALA	KRAUSE, VOLZ, LIPSCOMB	10/86 P
2AZA	*AZURIN(ALCALIGENES DENITRIFICANS)	E. BAKER, G. NORRIS	10/86 RP
1CGA	CHYMOTRYPSINOGEN A	D. HANG, W. BODE, R. HUBER	4/86 N
8BNA	*DNA (CGCGAATTCGG, SYNTHETIC)/HOECHST 33258	P. JURA, GRZESKONIAK, DICKERSON	8/86 N
1CTF	*L7/L12 50S RIBOSOMAL PROTEIN (C-TERMINAL)	M. LEIJONMARCK, A. LILJAS	9/86 N
9PAP	PAPAIN (OXIDIZED CYS 25)	I. KAMPHUIS, J. DRENTH	3/86 RN
4PCY	*PLASTOCYANIN (CROSS-LINKED, PH 7.8)	J. M. GUSS	9/86 N
5PCY	*PLASTOCYANIN (PH 7.0)	J. M. GUSS	9/86 N
6PCY	*PLASTOCYANIN (PH 3.8)	J. M. GUSS	9/86 N
R2AZAF	*AZURIN(ALCALIGENES DENITRIFICANS)	E. BAKER, G. NORRIS	10/86 SF
R6BNAF	*DNA (CGCGAATTCGG, SYNTHETIC)/HOECHST 33258P	P. JURA, R. DICKERSON	8/86 SF
R1CTFSF	*L7/L12 50S RIBOSOMAL PROTEIN (C-TERMINAL)	M. LEIJONMARCK, A. LILJAS	9/86 SF

\* NEW OR REPLACEMENT ENTRY SINCE JUL-86 NEWSLETTER

STATUS CODES

A	ALPHA CARBON ATOMS ONLY
B	BACKBONE ONLY
N	NEW ENTRY AWAITING APPROVAL BY DEPOSITOR
P	IN PREPARATION
R	REPLACEMENT FOR ENTRY IN TABLE B
SF	STRUCTURE FACTORS

TABLE 10. PROTEIN DATA BANK, BIBLIOGRAPHIC ENTRIES (NO COORDINATES)

21-OCT-86

DEAP	ACID PROTEINASE (ENDOTHA PARASITICA)
OHG1	*AGGLUTININ (WHEAT GERM, ISOLECTIN I)
OH0E	*ALPHA-AMYLASE INHIBITOR HOE-4674 (STREPTOMYCES TENDAE 4158)
OAF1	APOFERRITIN (HORSE)
OMAA	MITOCHONDRIAL ASPARTATE AMINOTRANSFERASE
OMAA	ARNASE (BACILLUS AMYLOLIQUEFACIENS)
OCPT	CALCIUM-BINDING PARVALBUMIN - TERBIUM COMPLEX
OCLN	CALMODULIN (CHICKEN)
OCDI	CALOTROPIN DI (CALOTROPIS GIGANTEA)
OZGP	D-ALANYL-D-ALANINE PEPTIDASE (Zn <sup>2+</sup> G PEPTIDASE)
GGC1	GAMMA-CHYMOTRYPSIN - INACTIVATOR COMPLEX
OCGA	CHYMOTRYPSINOGEN A (BOVINE)
OCN2	CONCAVALIN A (DEMETALLIZED)
OCRO	CRO REPRESSOR
OSC1	CYTOCHROME C555 (CHLOROBIVUM THIOSULFATOPHILUM)
ODN1	*DEOXYRIBONUCLEASE I (DNASE I)
OC3A	DES-ARG77-C3A ANAPHYLATOXIN
OCDF	DIIHYDROFOLATE REDUCTASE (CHICKEN LIVER)
ODN2	*DNA (CGCAATTCGG, SYNTHETIC)
ODN3	*DNA (CGCGAATTACGG, SYNTHETIC)
ODN4	*DNA (+CG+CG+CG, SYNTHETIC, BROMINATED CYTIDINES, 18 DEGREES C)
ODN5	*DNA (+CG+CG+CG, SYNTHETIC, BROMINATED CYTIDINES, 37 DEGREES C)
ODAC	*DNA (CGGTACCG, SYNTHETIC) COMPLEX WITH TRIOSTIN
ODN6	*DNA (GGATGGAG, SYNTHETIC)
ODN1	DNA (GGGGTCCC, SYNTHETIC)
OANB	DNA (GGTATACC)
OANB	DNA (GG+UA+UACC)
OGTC	DNA (A, GGGGTC, SYNTHETIC)
ODP1	DNA POLYMERASE I
OESC	*ELASTASE COMPLEX WITH TWO MOLECULES OF ACE-ALA-PRO-ALA
OESZ	ELASTASE COMPLEX (PIG)
OEFM	ELONGATION FACTOR TU (TRYPSIN-MODIFIED)
OEUA	ELONGATION FACTOR TU COMPLEX (ESCHERICHIA COLI)
OEZA	EXOTOXIN A (PSEUDOMONAS AERUGINOSA)
OFDL	*FAB (GG D+3) COMPLEX WITH LYSOZYME
OFX1	FERRIDOXIN I (APHANOTHECE SACRUM)
OFX2	FLAVODOXIN (REDUCED, CLOSTRIDIUM MP)
OG8P	D-GALACTOSE-BINDING PROTEIN (ESCHERICHIA COLI)
OGLS	*GLUTAMINE SYNTHETASE (SALMONELLA TYPHIMURUM)
OGD1	O-2-GLYERALDEHYDE 3-PHOSPHATE DEHYDROGENASE (BACILLUS STEAROTHEROPHILUS)
OGGX	GLYCULATE OXIDASE (SPINACH)
OHP1	HEMOCYANIN (PANAULIRUS INTERRUPTUS)
ODCH	HEMOGLOBIN (COBALT, DEOXY)
OH8G	HEMOGLOBIN (GLYCERA DIBRANCHIATA)
OH8T	HEMOGLOBIN (T STATE, HUMAN)
OPHH	P-HYDROXYBENZONATE HYDROXYLASE (PSEUDOMONAS FLUORESCENS)
OAUI	IMMUNOGLOBULIN, BENGE-JONES FRAGMENT (KAPPA) AU
OR0Y	IMMUNOGLOBULIN, BENGE-JONES FRAGMENT (V-MONOMER, KAPPA) ROY
OIG1	IMMUNOGLOBULIN G1 (KAPPA) DOB
OINH	INSULIN (HUMAN)
OINI	INSULIN (PORCINE)
OIN2	INSULIN (PORCINE)
OIN3	DESPENTAPEPTIDE INSULIN (BEEF)
OLRP	N-TERMINAL DOMAIN OF LAMBDA REPRESSOR
ODLM	LYSOZYME (EMBEDDING GOOSE)
OLZ5	LYSOZYME (HEN EGG-WHITE, NEUTRON STUDY)
OLZ6	LYSOZYME (HEN EGG-WHITE, DEUTERATED ETHANOL)
OLZ7	LYSOZYME (HEN EGG-WHITE, HIGH-TEMPERATURE)
OLZ8	LYSOZYME (STREPTOMYCES ERYTHRAEUS)
OTEL	LYSOZYME (TORTOISE EGG-WHITE)
OCTF	L7/L12 (E. COLI, C-TERMINUS)
OBEM	BETA-2-MICROGLOBULIN
OHMD	*MITOCHONDRIAL MALATE DEHYDROGENASE (PORCINE)
OMBA	MYOGLOBIN (APLYSIA LIMACINA)
OMEM	MYOGLOBIN (SPERM WHALE, MET, TEMPERATURE STUDIES)
OMB3	MYOGLOBIN (SPERM WHALE, MET, NEUTRON STUDY)
OP50	PEPSINOGEN (PORCINE)
OPFK	PHOSPHOFRUCTOKINASE (BACILLUS STEAROTHEROPHILUS)
OPGL	PHOSPHOGLUCOMUTASE (RABBIT)
OPPA	PHOSPHORYLASE A (RABBIT)
OPB1	PHOSPHORYLASE B (RABBIT)
OPRC	PHOTOSYNTHETIC REACTION CENTER (RHODOSPHEUDOMONAS VIRIDIS)
OPCC	*C-PHYCOCYANIN (ACHENELLUM QUADRUPPLICATUM)
OPF1	*PROTHROMBIN FRAGMENT I (BOVINE)
ORX5	RELAXIN (PORCINE, MODEL)
ORSA	RIBONUCLEASE A (BOVINE)
OR1A	*RIBONUCLEASE A (BOVINE) COMPLEX WITH DNA (AAAA)
OR65	RIBONUCLEASE (BOVINE, SEMINAL)
OR61	RIBONUCLEASE B1 (BINAISE)
OR5T	RIBONUCLEASE ST (STREPTOMYCES ERYTHREUS)
ORNT	RIBONUCLEASE T1-2 (PRIME)-GUANYLIC ACID (ASPERGILLUS ORYZAE)
OSEC	SUBTILISIN CARLSBERG - EGLIN-C COMPLEX (BACILLUS SUBTILIS AND LEECH)
OSN1	SUBTILISIN NOVO - CHYMOTRYPSIN INHIBITOR 2 COMPLEX
OSBP	SULFATE-BINDING PROTEIN
OSDE	FE-SUPEROXIDE DISMUTASE (ESCHERICHIA COLI)
OSDP	FE-SUPEROXIDE DISMUTASE (PSEUDOMONAS OVALIS)
OSDM	MN-SUPEROXIDE DISMUTASE (THERMUS THERMOPHILUS)
OTH1	THAUMATIN
OTLP	*THERMOLYSIN (BACILLUS THERMOPROTEOLYTICUS) COMPLEX WITH PHOSPHORAMIDON
OTLL	*THERMOLYSIN (BACILLUS THERMOPROTEOLYTICUS) COMPLEX WITH P-LEU-NH2
OT14	THIOREDOXIN REDUCTASE (BACTERIOPHAGE T4)
OFMT	INITIATOR TRANSFER RNA (E. COLI, F/MET)
OTA1	TRANSFER RNA (YEAST, ASP, A FORM)
OTN1	TRANSFER RNA (YEAST, ASP, PB, PH 7.4)
OTR1	TRANSFER RNA (YEAST, PHE)
OTHS	METHIONYL TRANSFER RNA SYNTHETASE
OYPI	TRIOSE PHOSPHATE ISOMERASE (SACCHAROMYCES CEREVISIAE)
OWRP	TRP REPRESSOR (ESCHERICHIA COLI)
OU8Q	UBIQUITIN (HUMAN)
OUTG	UTEROGLOBIN (RABBIT)
OAD2	*ADENOVIRUS TYPE 2 HEXON (AD2)
OPLV	VIRUS (POLIO, HUMAN)
OTMV	VIRUS PROTEIN DISK (TOBACCO MOSAIC)

\* NEW OR REPLACEMENT ENTRY SINCE JUL-86 NEWSLETTER

ORDER FORM (Please include a self-addressed label)

1. Name \_\_\_\_\_ Date \_\_\_\_\_  
Address \_\_\_\_\_ Telephone \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Documentation desired (no charge).  
 Latest Newsletter  
 Introduction to The Protein Data Bank (June 1986)  
 Sources of Visual Aids for Macromolecular Structure  
(September 1986)  
 Atomic Coordinate and Bibliographic Entry Format Description for  
DATAPRTP and DATAPRFI (January 1985)  
 Current DATAPRTP Directory  
 Non-Standard Entries (Structure Factors) Format Description  
 Data Deposition form

3. Please send the following magnetic tape items (from Table 1).

DATAPRTP	<input type="checkbox"/> 6250 cpi, ASCII, \$244	<input type="checkbox"/> 6250 cpi, EBCDIC, \$244
	<input type="checkbox"/> 1600 cpi, ASCII, \$285	<input type="checkbox"/> 1600 cpi, EBCDIC, \$285
	<input type="checkbox"/> 800 cpi, ASCII, \$326	<input type="checkbox"/> 800 cpi, EBCDIC, \$326
YEAR85TP	<input type="checkbox"/> 6250 cpi, ASCII, \$244	<input type="checkbox"/> 6250 cpi, EBCDIC, \$244
	<input type="checkbox"/> 1600 cpi, ASCII, \$244	<input type="checkbox"/> 1600 cpi, EBCDIC, \$244
	<input type="checkbox"/> 800 cpi, ASCII, \$244	<input type="checkbox"/> 800 cpi, EBCDIC, \$244
PART86TP	<input type="checkbox"/> 6250 cpi, ASCII, \$244	<input type="checkbox"/> 6250 cpi, EBCDIC, \$244
	<input type="checkbox"/> 1600 cpi, ASCII, \$244	<input type="checkbox"/> 1600 cpi, EBCDIC, \$244
	<input type="checkbox"/> 800 cpi, ASCII, \$244	<input type="checkbox"/> 800 cpi, EBCDIC, \$244
PDBPGMTP	<input type="checkbox"/> 6250 cpi, ASCII, \$244	<b>This product is available only in VAX/VMS ANSI labelled magnetic tape format based on Level 3 of the ANSI Standard.</b>
	<input type="checkbox"/> 1600 cpi, ASCII, \$244	
	<input type="checkbox"/> 800 cpi, ASCII, \$244	
NONST1TP	<input type="checkbox"/> 6250 cpi, ASCII, \$244	<input type="checkbox"/> 6250 cpi, EBCDIC, \$244
	<input type="checkbox"/> 1600 cpi, ASCII, \$244	<input type="checkbox"/> 1600 cpi, EBCDIC, \$244
	<input type="checkbox"/> 800 cpi, ASCII, \$285	<input type="checkbox"/> 800 cpi, EBCDIC, \$285
NONST2TP	<input type="checkbox"/> 6250 cpi, ASCII, \$244	<input type="checkbox"/> 6250 cpi, EBCDIC, \$244
	<input type="checkbox"/> 1600 cpi, ASCII, \$244	<input type="checkbox"/> 1600 cpi, EBCDIC, \$244
	<input type="checkbox"/> 800 cpi, ASCII, \$285	<input type="checkbox"/> 800 cpi, EBCDIC, \$285
NONST3TP	<input type="checkbox"/> 6250 cpi, ASCII, \$244	<input type="checkbox"/> 6250 cpi, EBCDIC, \$244
	<input type="checkbox"/> 1600 cpi, ASCII, \$244	<input type="checkbox"/> 1600 cpi, EBCDIC, \$244
	<input type="checkbox"/> 800 cpi, ASCII, \$285	<input type="checkbox"/> 800 cpi, EBCDIC, \$285
NONST4TP	<input type="checkbox"/> 6250 cpi, ASCII, \$244	<input type="checkbox"/> 6250 cpi, EBCDIC, \$244
	<input type="checkbox"/> 1600 cpi, ASCII, \$244	<input type="checkbox"/> 1600 cpi, EBCDIC, \$244
	<input type="checkbox"/> 800 cpi, ASCII, \$244	<input type="checkbox"/> 800 cpi, EBCDIC, \$244
BENDERTP	<input type="checkbox"/> 6250 cpi, ASCII, \$244	<input type="checkbox"/> 6250 cpi, EBCDIC, \$244
	<input type="checkbox"/> 1600 cpi, ASCII, \$244	<input type="checkbox"/> 1600 cpi, EBCDIC, \$244
	<input type="checkbox"/> 800 cpi, ASCII, \$244	<input type="checkbox"/> 800 cpi, EBCDIC, \$244
CONNECTP	<input type="checkbox"/> 6250 cpi, ASCII, \$244	<input type="checkbox"/> 6250 cpi, EBCDIC, \$244
	<input type="checkbox"/> 1600 cpi, ASCII, \$285	<input type="checkbox"/> 1600 cpi, EBCDIC, \$285
	<input type="checkbox"/> 800 cpi, ASCII, \$326	<input type="checkbox"/> 800 cpi, EBCDIC, \$326
DGPLOTP	<input type="checkbox"/> 6250 cpi, ASCII, \$244	<input type="checkbox"/> 6250 cpi, EBCDIC, \$244
	<input type="checkbox"/> 1600 cpi, ASCII, \$244	<input type="checkbox"/> 1600 cpi, EBCDIC, \$244
	<input type="checkbox"/> 800 cpi, ASCII, \$244	<input type="checkbox"/> 800 cpi, EBCDIC, \$244
DIHDRLTP	<input type="checkbox"/> 6250 cpi, ASCII, \$244	<input type="checkbox"/> 6250 cpi, EBCDIC, \$244
	<input type="checkbox"/> 1600 cpi, ASCII, \$244	<input type="checkbox"/> 1600 cpi, EBCDIC, \$244
	<input type="checkbox"/> 800 cpi, ASCII, \$285	<input type="checkbox"/> 800 cpi, EBCDIC, \$285
DSTNCETP	<input type="checkbox"/> 6250 cpi, ASCII, \$244	<input type="checkbox"/> 6250 cpi, EBCDIC, \$244
	<input type="checkbox"/> 1600 cpi, ASCII, \$285	<input type="checkbox"/> 1600 cpi, EBCDIC, \$285
	<input type="checkbox"/> 800 cpi, ASCII, \$326	<input type="checkbox"/> 800 cpi, EBCDIC, \$326
FISIPLTP	<input type="checkbox"/> 6250 cpi, ASCII, \$244	<input type="checkbox"/> 6250 cpi, EBCDIC, \$244
	<input type="checkbox"/> 1600 cpi, ASCII, \$244	<input type="checkbox"/> 1600 cpi, EBCDIC, \$244
	<input type="checkbox"/> 800 cpi, ASCII, \$244	<input type="checkbox"/> 800 cpi, EBCDIC, \$244
PHIPSITP	<input type="checkbox"/> 6250 cpi, ASCII, \$244	<input type="checkbox"/> 6250 cpi, EBCDIC, \$244
	<input type="checkbox"/> 1600 cpi, ASCII, \$244	<input type="checkbox"/> 1600 cpi, EBCDIC, \$244
	<input type="checkbox"/> 800 cpi, ASCII, \$244	<input type="checkbox"/> 800 cpi, EBCDIC, \$244

Special Instructions. Please check the appropriate box.

( ) We are especially interested in the pending entries with the following Ident Codes: \_\_\_\_\_ . Please delay shipment until the date \_\_\_\_\_ if any of these entries are expected to be available by that date.

( ) Normal order-will be processed as soon as possible.

4. Please send the following microfiche items (from Table 2). Each microfiche item costs \$231, postage included. Correction fiche are free.

Items: \_\_\_\_\_ Total Cost: \_\_\_\_\_

5. Please send the following printed listings. Each listing costs \$84, postage included.

Ident Code(s) (From Table 7): \_\_\_\_\_ Total Cost: \_\_\_\_\_

6. Foreign air mail postage for tapes from Brookhaven to destinations outside the U. S. and Canada. A postage surcharge of \$19 is required per item.

Number of items x \$19.00 = \_\_\_\_\_

7. Total charges

Magnetic tape charges (3 above) \_\_\_\_\_

Microfiche charges (4 above) \_\_\_\_\_

Printed listing charges (5 above) \_\_\_\_\_

Foreign air mail postage charges (6 above) \_\_\_\_\_

Bank charge \_\_\_\_\_

for checks not drawn in US dollars on US bank. \$10 \_\_\_\_\_

Total \_\_\_\_\_

**Method of Payment:**

**Brookhaven requires that either a check or written purchase order payable to Brookhaven National Laboratory be received before service is provided.**

( ) check is ( ) enclosed

( ) purchase order number \_\_\_\_\_ ( ) sent separately

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Please return to

Ms. F. C. Bernstein  
Chemistry Department  
Brookhaven National Laboratory  
Upton, New York 11973 USA

It is advisable to send a photocopy of this order form directly to Brookhaven; experience shows that purchasing departments often do not forward this form with the order.