

# Supplementary Data S1

## Supplementary data S1: PDB file of the CsAPABPN1 concatemer bound to poly(A<sub>50</sub>)

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REMARK YASARA Written on:           Thu Nov  6 17:32:39 2014
REMARK YASARA Number of models: 1
REMARK YASARA Number of atoms:    18812
REMARK YASARA Please address questions or suggestions to: Eliza@yasara.org
REMARK YASARA
COMPND      MOL_ID: 1;
COMPND      2 MOLECULE: 5'-R(*AP*AP*AP*AP*AP*AP*AP*AP*AP*AP*A)-3';
COMPND      3 CHAIN: M, N, R;
COMPND      4 MOL_ID: 2;
COMPND      5 MOLECULE: POLYADENYLATE BINDING PROTEIN 1;
COMPND      6 CHAIN: A, B, C, D, E, F, G, H;
SEQRES      1 A  77  ASP SER ARG SER ILE TYR VAL GLY ASN VAL ASP TYR ALA
SEQRES      2 A  77  CYS THR PRO GLU GLU VAL GLN GLN HIS PHE GLN SER CYS
SEQRES      3 A  77  GLY THR VAL ASN ARG VAL THR ILE LEU THR ASP LYS PHE
SEQRES      4 A  77  GLY GLN PRO LYS GLY PHE ALA TYR VAL GLU PHE VAL GLU
SEQRES      5 A  77  ILE ASP ALA VAL GLN ASN ALA LEU LEU LEU ASN GLU THR
SEQRES      6 A  77  GLU LEU HIS GLY ARG GLN LEU LYS VAL SER ALA LYS
SEQRES      1 B  77  ASP SER ARG SER ILE TYR VAL GLY ASN VAL ASP TYR ALA
SEQRES      2 B  77  CYS THR PRO GLU GLU VAL GLN GLN HIS PHE GLN SER CYS
SEQRES      3 B  77  GLY THR VAL ASN ARG VAL THR ILE LEU THR ASP LYS PHE
SEQRES      4 B  77  GLY GLN PRO LYS GLY PHE ALA TYR VAL GLU PHE VAL GLU
SEQRES      5 B  77  ILE ASP ALA VAL GLN ASN ALA LEU LEU LEU ASN GLU THR
SEQRES      6 B  77  GLU LEU HIS GLY ARG GLN LEU LYS VAL SER ALA LYS
SEQRES      1 C  77  ASP SER ARG SER ILE TYR VAL GLY ASN VAL ASP TYR ALA
SEQRES      2 C  77  CYS THR PRO GLU GLU VAL GLN GLN HIS PHE GLN SER CYS
SEQRES      3 C  77  GLY THR VAL ASN ARG VAL THR ILE LEU THR ASP LYS PHE
SEQRES      4 C  77  GLY GLN PRO LYS GLY PHE ALA TYR VAL GLU PHE VAL GLU
SEQRES      5 C  77  ILE ASP ALA VAL GLN ASN ALA LEU LEU LEU ASN GLU THR
SEQRES      6 C  77  GLU LEU HIS GLY ARG GLN LEU LYS VAL SER ALA LYS
SEQRES      1 D  77  ASP SER ARG SER ILE TYR VAL GLY ASN VAL ASP TYR ALA
SEQRES      2 D  77  CYS THR PRO GLU GLU VAL GLN GLN HIS PHE GLN SER CYS
SEQRES      3 D  77  GLY THR VAL ASN ARG VAL THR ILE LEU THR ASP LYS PHE
SEQRES      4 D  77  GLY GLN PRO LYS GLY PHE ALA TYR VAL GLU PHE VAL GLU
SEQRES      5 D  77  ILE ASP ALA VAL GLN ASN ALA LEU LEU LEU ASN GLU THR
SEQRES      6 D  77  GLU LEU HIS GLY ARG GLN LEU LYS VAL SER ALA LYS
SEQRES      1 E  77  ASP SER ARG SER ILE TYR VAL GLY ASN VAL ASP TYR ALA
SEQRES      2 E  77  CYS THR PRO GLU GLU VAL GLN GLN HIS PHE GLN SER CYS
SEQRES      3 E  77  GLY THR VAL ASN ARG VAL THR ILE LEU THR ASP LYS PHE
SEQRES      4 E  77  GLY GLN PRO LYS GLY PHE ALA TYR VAL GLU PHE VAL GLU
SEQRES      5 E  77  ILE ASP ALA VAL GLN ASN ALA LEU LEU LEU ASN GLU THR
SEQRES      6 E  77  GLU LEU HIS GLY ARG GLN LEU LYS VAL SER ALA LYS
SEQRES      1 F  77  ASP SER ARG SER ILE TYR VAL GLY ASN VAL ASP TYR ALA
SEQRES      2 F  77  CYS THR PRO GLU GLU VAL GLN GLN HIS PHE GLN SER CYS
SEQRES      3 F  77  GLY THR VAL ASN ARG VAL THR ILE LEU THR ASP LYS PHE
SEQRES      4 F  77  GLY GLN PRO LYS GLY PHE ALA TYR VAL GLU PHE VAL GLU
SEQRES      5 F  77  ILE ASP ALA VAL GLN ASN ALA LEU LEU LEU ASN GLU THR
SEQRES      6 F  77  GLU LEU HIS GLY ARG GLN LEU LYS VAL SER ALA LYS
SEQRES      1 G  77  ASP SER ARG SER ILE TYR VAL GLY ASN VAL ASP TYR ALA
SEQRES      2 G  77  CYS THR PRO GLU GLU VAL GLN GLN HIS PHE GLN SER CYS
SEQRES      3 G  77  GLY THR VAL ASN ARG VAL THR ILE LEU THR ASP LYS PHE
SEQRES      4 G  77  GLY GLN PRO LYS GLY PHE ALA TYR VAL GLU PHE VAL GLU
SEQRES      5 G  77  ILE ASP ALA VAL GLN ASN ALA LEU LEU LEU ASN GLU THR
SEQRES      6 G  77  GLU LEU HIS GLY ARG GLN LEU LYS VAL SER ALA LYS
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SEQRES	1	H	77	ASP	SER	ARG	SER	ILE	TYR	VAL	GLY	ASN	VAL	ASP	TYR	ALA
SEQRES	2	H	77	CYS	THR	PRO	GLU	GLU	VAL	GLN	GLN	HIS	PHE	GLN	SER	CYS
SEQRES	3	H	77	GLY	THR	VAL	ASN	ARG	VAL	THR	ILE	LEU	THR	ASP	LYS	PHE
SEQRES	4	H	77	GLY	GLN	PRO	LYS	GLY	PHE	ALA	TYR	VAL	GLU	PHE	VAL	GLU
SEQRES	5	H	77	ILE	ASP	ALA	VAL	GLN	ASN	ALA	LEU	LEU	LEU	ASN	GLU	THR
SEQRES	6	H	77	GLU	LEU	HIS	GLY	ARG	GLN	LEU	LYS	VAL	SER	ALA	LYS	
SEQRES	1	I	77	ASP	SER	ARG	SER	ILE	TYR	VAL	GLY	ASN	VAL	ASP	TYR	ALA
SEQRES	2	I	77	CYS	THR	PRO	GLU	GLU	VAL	GLN	GLN	HIS	PHE	GLN	SER	CYS
SEQRES	3	I	77	GLY	THR	VAL	ASN	ARG	VAL	THR	ILE	LEU	THR	ASP	LYS	PHE
SEQRES	4	I	77	GLY	GLN	PRO	LYS	GLY	PHE	ALA	TYR	VAL	GLU	PHE	VAL	GLU
SEQRES	5	I	77	ILE	ASP	ALA	VAL	GLN	ASN	ALA	LEU	LEU	LEU	ASN	GLU	THR
SEQRES	6	I	77	GLU	LEU	HIS	GLY	ARG	GLN	LEU	LYS	VAL	SER	ALA	LYS	
SEQRES	1	J	77	ASP	SER	ARG	SER	ILE	TYR	VAL	GLY	ASN	VAL	ASP	TYR	ALA
SEQRES	2	J	77	CYS	THR	PRO	GLU	GLU	VAL	GLN	GLN	HIS	PHE	GLN	SER	CYS
SEQRES	3	J	77	GLY	THR	VAL	ASN	ARG	VAL	THR	ILE	LEU	THR	ASP	LYS	PHE
SEQRES	4	J	77	GLY	GLN	PRO	LYS	GLY	PHE	ALA	TYR	VAL	GLU	PHE	VAL	GLU
SEQRES	5	J	77	ILE	ASP	ALA	VAL	GLN	ASN	ALA	LEU	LEU	LEU	ASN	GLU	THR
SEQRES	6	J	77	GLU	LEU	HIS	GLY	ARG	GLN	LEU	LYS	VAL	SER	ALA	LYS	
SEQRES	1	K	77	ASP	SER	ARG	SER	ILE	TYR	VAL	GLY	ASN	VAL	ASP	TYR	ALA
SEQRES	2	K	77	CYS	THR	PRO	GLU	GLU	VAL	GLN	GLN	HIS	PHE	GLN	SER	CYS
SEQRES	3	K	77	GLY	THR	VAL	ASN	ARG	VAL	THR	ILE	LEU	THR	ASP	LYS	PHE
SEQRES	4	K	77	GLY	GLN	PRO	LYS	GLY	PHE	ALA	TYR	VAL	GLU	PHE	VAL	GLU
SEQRES	5	K	77	ILE	ASP	ALA	VAL	GLN	ASN	ALA	LEU	LEU	LEU	ASN	GLU	THR
SEQRES	6	K	77	GLU	LEU	HIS	GLY	ARG	GLN	LEU	LYS	VAL	SER	ALA	LYS	
SEQRES	1	L	77	ASP	SER	ARG	SER	ILE	TYR	VAL	GLY	ASN	VAL	ASP	TYR	ALA
SEQRES	2	L	77	CYS	THR	PRO	GLU	GLU	VAL	GLN	GLN	HIS	PHE	GLN	SER	CYS
SEQRES	3	L	77	GLY	THR	VAL	ASN	ARG	VAL	THR	ILE	LEU	THR	ASP	LYS	PHE
SEQRES	4	L	77	GLY	GLN	PRO	LYS	GLY	PHE	ALA	TYR	VAL	GLU	PHE	VAL	GLU
SEQRES	5	L	77	ILE	ASP	ALA	VAL	GLN	ASN	ALA	LEU	LEU	LEU	ASN	GLU	THR
SEQRES	6	L	77	GLU	LEU	HIS	GLY	ARG	GLN	LEU	LYS	VAL	SER	ALA	LYS	
SEQRES	1	M	77	ASP	SER	ARG	SER	ILE	TYR	VAL	GLY	ASN	VAL	ASP	TYR	ALA
SEQRES	2	M	77	CYS	THR	PRO	GLU	GLU	VAL	GLN	GLN	HIS	PHE	GLN	SER	CYS
SEQRES	3	M	77	GLY	THR	VAL	ASN	ARG	VAL	THR	ILE	LEU	THR	ASP	LYS	PHE
SEQRES	4	M	77	GLY	GLN	PRO	LYS	GLY	PHE	ALA	TYR	VAL	GLU	PHE	VAL	GLU
SEQRES	5	M	77	ILE	ASP	ALA	VAL	GLN	ASN	ALA	LEU	LEU	LEU	ASN	GLU	THR
SEQRES	6	M	77	GLU	LEU	HIS	GLY	ARG	GLN	LEU	LYS	VAL	SER	ALA	LYS	
SEQRES	1	N	77	ASP	SER	ARG	SER	ILE	TYR	VAL	GLY	ASN	VAL	ASP	TYR	ALA
SEQRES	2	N	77	CYS	THR	PRO	GLU	GLU	VAL	GLN	GLN	HIS	PHE	GLN	SER	CYS
SEQRES	3	N	77	GLY	THR	VAL	ASN	ARG	VAL	THR	ILE	LEU	THR	ASP	LYS	PHE
SEQRES	4	N	77	GLY	GLN	PRO	LYS	GLY	PHE	ALA	TYR	VAL	GLU	PHE	VAL	GLU
SEQRES	5	N	77	ILE	ASP	ALA	VAL	GLN	ASN	ALA	LEU	LEU	LEU	ASN	GLU	THR
SEQRES	6	N	77	GLU	LEU	HIS	GLY	ARG	GLN	LEU	LYS	VAL	SER	ALA	LYS	
SEQRES	1	R	61	A	A	A	A	A	A	A	A	A	A	A	A	A
SEQRES	2	R	61	A	A	A	A	A	A	A	A	A	A	A	A	A
SEQRES	3	R	61	A	A	A	A	A	A	A	A	A	A	A	A	A
SEQRES	4	R	61	A	A	A	A	A	A	A	A	A	A	A	A	A
SEQRES	5	R	61	A	A	A	A	A	A	A	A	A	A	A	A	A
CRYST1	1.000	1.000	1.000	90.00	90.00	90.00	P	1								1
ORIGX1	1.000000	0.000000	0.000000			0.000000										
ORIGX2	0.000000	1.000000	0.000000			0.000000										
ORIGX3	0.000000	0.000000	1.000000			0.000000										
SCALE1	1.000000	0.000000	0.000000			0.000000										
SCALE2	0.000000	1.000000	0.000000			0.000000										
SCALE3	0.000000	0.000000	1.000000			0.000000										
ATOM	1	N	ASP	A	106	17.177	125.127	16.259	1.00	0.00						N
ATOM	2	1H	ASP	A	106	17.900	125.393	15.607	1.00	0.00						H
ATOM	3	2H	ASP	A	106	17.376	124.193	16.594	1.00	0.00						H
ATOM	4	3H	ASP	A	106	17.221	125.739	17.071	1.00	0.00						H
ATOM	5	CA	ASP	A	106	15.831	125.213	15.653	1.00	0.00						C
ATOM	6	HA	ASP	A	106	15.687	126.235	15.307	1.00	0.00						H
ATOM	7	C	ASP	A	106	14.698	124.935	16.654	1.00	0.00						C
ATOM	8	O	ASP	A	106	13.689	125.629	16.599	1.00	0.00						O
ATOM	9	CB	ASP	A	106	15.707	124.273	14.438	1.00	0.00						C
ATOM	10	1HB	ASP	A	106	14.811	124.539	13.876	1.00	0.00						H
ATOM	11	2HB	ASP	A	106	16.571	124.394	13.783	1.00	0.00						H
ATOM	12	CG	ASP	A	106	15.601	122.825	14.914	1.00	0.00						C
ATOM	13	OD1	ASP	A	106	16.594	122.368	15.525	1.00	0.00						O
ATOM	14	OD2	ASP	A	106	14.470	122.299	14.980	1.00	0.00						O
ATOM	15	N	SER	A	107	14.831	123.884	17.479	1.00	0.00						N
ATOM	16	H	SER	A	107	15.772	123.529	17.579	1.00	0.00						H
ATOM	17	CA	SER	A	107	13.807	123.133	18.238	1.00	0.00						C
ATOM	18	HA	SER	A	107	13.710	123.618	19.209	1.00	0.00						H
ATOM	19	C	SER	A	107	14.227	121.676	18.495	1.00	0.00						C
ATOM	20	O	SER	A	107	13.884	121.128	19.543	1.00	0.00						O
ATOM	21	CB	SER	A	107	12.408	123.105	17.589	1.00	0.00						C
ATOM	22	1HB	SER	A	107	11.697	122.780	18.349	1.00	0.00						H
ATOM	23	2HB	SER	A	107	12.089	124.093	17.268	1.00	0.00						H

ATOM	24	OG	SER	A	107	12.323	122.187	16.509	1.00	0.00	O
ATOM	25	HG	SER	A	107	13.057	122.365	15.868	1.00	0.00	H
ATOM	26	N	ARG	A	108	14.939	121.027	17.552	1.00	0.00	N
ATOM	27	H	ARG	A	108	15.113	121.508	16.667	1.00	0.00	H
ATOM	28	CA	ARG	A	108	15.543	119.685	17.715	1.00	0.00	C
ATOM	29	HA	ARG	A	108	14.868	119.026	18.252	1.00	0.00	H
ATOM	30	C	ARG	A	108	16.810	119.717	18.568	1.00	0.00	C
ATOM	31	O	ARG	A	108	17.337	118.670	18.928	1.00	0.00	O
ATOM	32	CB	ARG	A	108	15.915	119.040	16.355	1.00	0.00	C
ATOM	33	1HB	ARG	A	108	16.827	119.519	15.992	1.00	0.00	H
ATOM	34	2HB	ARG	A	108	16.188	118.004	16.563	1.00	0.00	H
ATOM	35	CG	ARG	A	108	14.935	119.004	15.159	1.00	0.00	C
ATOM	36	1HG	ARG	A	108	15.161	119.852	14.515	1.00	0.00	H
ATOM	37	2HG	ARG	A	108	15.168	118.111	14.577	1.00	0.00	H
ATOM	38	CD	ARG	A	108	13.421	119.017	15.413	1.00	0.00	C
ATOM	39	1HD	ARG	A	108	13.140	120.028	15.688	1.00	0.00	H
ATOM	40	2HD	ARG	A	108	12.912	118.785	14.476	1.00	0.00	H
ATOM	41	NE	ARG	A	108	12.999	118.052	16.444	1.00	0.00	N
ATOM	42	HE	ARG	A	108	13.189	117.070	16.283	1.00	0.00	H
ATOM	43	CZ	ARG	A	108	12.528	118.339	17.637	1.00	0.00	C
ATOM	44	NH1	ARG	A	108	12.056	119.514	17.945	1.00	0.00	N
ATOM	45	1HH1	ARG	A	108	12.079	120.235	17.233	1.00	0.00	H
ATOM	46	2HH1	ARG	A	108	12.023	119.782	18.910	1.00	0.00	H
ATOM	47	NH2	ARG	A	108	12.587	117.448	18.576	1.00	0.00	N
ATOM	48	1HH2	ARG	A	108	13.025	116.552	18.382	1.00	0.00	H
ATOM	49	2HH2	ARG	A	108	12.310	117.644	19.514	1.00	0.00	H
ATOM	50	N	SER	A	109	17.318	120.911	18.853	1.00	0.00	N
ATOM	51	H	SER	A	109	16.777	121.722	18.607	1.00	0.00	H
ATOM	52	CA	SER	A	109	18.722	121.160	19.148	1.00	0.00	C
ATOM	53	HA	SER	A	109	19.213	120.206	19.323	1.00	0.00	H
ATOM	54	C	SER	A	109	18.916	121.993	20.418	1.00	0.00	C
ATOM	55	O	SER	A	109	18.046	122.758	20.843	1.00	0.00	O
ATOM	56	CB	SER	A	109	19.396	121.803	17.919	1.00	0.00	C
ATOM	57	1HB	SER	A	109	20.321	122.294	18.225	1.00	0.00	H
ATOM	58	2HB	SER	A	109	19.654	121.017	17.209	1.00	0.00	H
ATOM	59	OG	SER	A	109	18.560	122.738	17.248	1.00	0.00	O
ATOM	60	HG	SER	A	109	17.965	122.263	16.628	1.00	0.00	H
ATOM	61	N	ILE	A	110	20.078	121.816	21.048	1.00	0.00	N
ATOM	62	H	ILE	A	110	20.729	121.138	20.661	1.00	0.00	H
ATOM	63	CA	ILE	A	110	20.465	122.495	22.287	1.00	0.00	C
ATOM	64	HA	ILE	A	110	19.825	123.368	22.407	1.00	0.00	H
ATOM	65	C	ILE	A	110	21.900	123.015	22.169	1.00	0.00	C
ATOM	66	O	ILE	A	110	22.818	122.280	21.809	1.00	0.00	O
ATOM	67	CB	ILE	A	110	20.250	121.599	23.538	1.00	0.00	C
ATOM	68	HB	ILE	A	110	20.557	122.178	24.410	1.00	0.00	H
ATOM	69	CG1	ILE	A	110	21.090	120.303	23.530	1.00	0.00	C
ATOM	70	1HG1	ILE	A	110	20.882	119.747	22.616	1.00	0.00	H
ATOM	71	2HG1	ILE	A	110	22.144	120.576	23.539	1.00	0.00	H
ATOM	72	CG2	ILE	A	110	18.755	121.276	23.712	1.00	0.00	C
ATOM	73	1HG2	ILE	A	110	18.584	120.841	24.693	1.00	0.00	H
ATOM	74	2HG2	ILE	A	110	18.429	120.572	22.945	1.00	0.00	H
ATOM	75	3HG2	ILE	A	110	18.160	122.182	23.630	1.00	0.00	H
ATOM	76	CD1	ILE	A	110	20.859	119.369	24.727	1.00	0.00	C
ATOM	77	1HD1	ILE	A	110	20.945	119.926	25.659	1.00	0.00	H
ATOM	78	2HD1	ILE	A	110	21.607	118.576	24.717	1.00	0.00	H
ATOM	79	3HD1	ILE	A	110	19.872	118.910	24.665	1.00	0.00	H
ATOM	80	N	TYR	A	111	22.075	124.305	22.449	1.00	0.00	N
ATOM	81	H	TYR	A	111	21.270	124.789	22.827	1.00	0.00	H
ATOM	82	CA	TYR	A	111	23.361	124.975	22.610	1.00	0.00	C
ATOM	83	HA	TYR	A	111	23.983	124.787	21.733	1.00	0.00	H
ATOM	84	C	TYR	A	111	24.095	124.467	23.856	1.00	0.00	C
ATOM	85	O	TYR	A	111	23.488	124.228	24.901	1.00	0.00	O
ATOM	86	CB	TYR	A	111	23.103	126.482	22.731	1.00	0.00	C
ATOM	87	1HB	TYR	A	111	22.705	126.844	21.784	1.00	0.00	H
ATOM	88	2HB	TYR	A	111	22.336	126.648	23.490	1.00	0.00	H
ATOM	89	CG	TYR	A	111	24.322	127.310	23.091	1.00	0.00	C
ATOM	90	CD1	TYR	A	111	24.518	127.740	24.419	1.00	0.00	C
ATOM	91	HD1	TYR	A	111	23.794	127.486	25.180	1.00	0.00	H
ATOM	92	CD2	TYR	A	111	25.250	127.663	22.094	1.00	0.00	C
ATOM	93	HD2	TYR	A	111	25.097	127.349	21.070	1.00	0.00	H
ATOM	94	CE1	TYR	A	111	25.632	128.538	24.744	1.00	0.00	C
ATOM	95	HE1	TYR	A	111	25.770	128.911	25.745	1.00	0.00	H
ATOM	96	CE2	TYR	A	111	26.362	128.460	22.418	1.00	0.00	C
ATOM	97	HE2	TYR	A	111	27.045	128.762	21.641	1.00	0.00	H
ATOM	98	CZ	TYR	A	111	26.554	128.905	23.743	1.00	0.00	C
ATOM	99	OH	TYR	A	111	27.620	129.687	24.056	1.00	0.00	O
ATOM	100	HH	TYR	A	111	28.043	130.019	23.256	1.00	0.00	H

ATOM	101	N	VAL	A	112	25.419	124.374	23.758	1.00	0.00	N
ATOM	102	H	VAL	A	112	25.834	124.612	22.861	1.00	0.00	H
ATOM	103	CA	VAL	A	112	26.327	123.844	24.778	1.00	0.00	C
ATOM	104	HA	VAL	A	112	25.801	123.767	25.729	1.00	0.00	H
ATOM	105	C	VAL	A	112	27.475	124.845	24.933	1.00	0.00	C
ATOM	106	O	VAL	A	112	28.400	124.898	24.124	1.00	0.00	O
ATOM	107	CB	VAL	A	112	26.820	122.434	24.391	1.00	0.00	C
ATOM	108	HB	VAL	A	112	27.447	122.507	23.504	1.00	0.00	H
ATOM	109	CG1	VAL	A	112	27.642	121.818	25.527	1.00	0.00	C
ATOM	110	1HG1	VAL	A	112	27.024	121.699	26.416	1.00	0.00	H
ATOM	111	2HG1	VAL	A	112	28.485	122.463	25.761	1.00	0.00	H
ATOM	112	3HG1	VAL	A	112	28.030	120.848	25.219	1.00	0.00	H
ATOM	113	CG2	VAL	A	112	25.674	121.460	24.076	1.00	0.00	C
ATOM	114	1HG2	VAL	A	112	25.018	121.351	24.940	1.00	0.00	H
ATOM	115	2HG2	VAL	A	112	26.081	120.489	23.796	1.00	0.00	H
ATOM	116	3HG2	VAL	A	112	25.090	121.822	23.232	1.00	0.00	H
ATOM	117	N	GLY	A	113	27.387	125.689	25.959	1.00	0.00	N
ATOM	118	H	GLY	A	113	26.678	125.494	26.655	1.00	0.00	H
ATOM	119	CA	GLY	A	113	28.279	126.826	26.193	1.00	0.00	C
ATOM	120	1HA	GLY	A	113	28.890	127.014	25.311	1.00	0.00	H
ATOM	121	2HA	GLY	A	113	27.680	127.716	26.375	1.00	0.00	H
ATOM	122	C	GLY	A	113	29.194	126.619	27.397	1.00	0.00	C
ATOM	123	O	GLY	A	113	29.051	125.663	28.155	1.00	0.00	O
ATOM	124	N	ASN	A	114	30.163	127.520	27.582	1.00	0.00	N
ATOM	125	H	ASN	A	114	30.197	128.298	26.943	1.00	0.00	H
ATOM	126	CA	ASN	A	114	31.189	127.419	28.636	1.00	0.00	C
ATOM	127	HA	ASN	A	114	31.937	128.184	28.427	1.00	0.00	H
ATOM	128	C	ASN	A	114	31.956	126.067	28.624	1.00	0.00	C
ATOM	129	O	ASN	A	114	32.383	125.572	29.665	1.00	0.00	O
ATOM	130	CB	ASN	A	114	30.536	127.778	29.990	1.00	0.00	C
ATOM	131	1HB	ASN	A	114	29.808	128.577	29.842	1.00	0.00	H
ATOM	132	2HB	ASN	A	114	30.005	126.913	30.382	1.00	0.00	H
ATOM	133	CG	ASN	A	114	31.526	128.271	31.032	1.00	0.00	C
ATOM	134	OD1	ASN	A	114	31.674	129.456	31.252	1.00	0.00	O
ATOM	135	ND2	ASN	A	114	32.243	127.401	31.698	1.00	0.00	N
ATOM	136	1HD2	ASN	A	114	32.927	127.773	32.328	1.00	0.00	H
ATOM	137	2HD2	ASN	A	114	32.277	126.440	31.365	1.00	0.00	H
ATOM	138	N	VAL	A	115	32.103	125.448	27.449	1.00	0.00	N
ATOM	139	H	VAL	A	115	31.683	125.863	26.634	1.00	0.00	H
ATOM	140	CA	VAL	A	115	32.895	124.223	27.249	1.00	0.00	C
ATOM	141	HA	VAL	A	115	32.596	123.490	28.000	1.00	0.00	H
ATOM	142	C	VAL	A	115	34.392	124.514	27.431	1.00	0.00	C
ATOM	143	O	VAL	A	115	34.876	125.602	27.102	1.00	0.00	O
ATOM	144	CB	VAL	A	115	32.618	123.624	25.856	1.00	0.00	C
ATOM	145	HB	VAL	A	115	32.928	124.354	25.111	1.00	0.00	H
ATOM	146	CG1	VAL	A	115	33.364	122.306	25.610	1.00	0.00	C
ATOM	147	1HG1	VAL	A	115	34.437	122.481	25.564	1.00	0.00	H
ATOM	148	2HG1	VAL	A	115	33.066	121.884	24.648	1.00	0.00	H
ATOM	149	3HG1	VAL	A	115	33.138	121.583	26.393	1.00	0.00	H
ATOM	150	CG2	VAL	A	115	31.123	123.335	25.667	1.00	0.00	C
ATOM	151	1HG2	VAL	A	115	30.951	122.914	24.675	1.00	0.00	H
ATOM	152	2HG2	VAL	A	115	30.533	124.246	25.747	1.00	0.00	H
ATOM	153	3HG2	VAL	A	115	30.787	122.620	26.418	1.00	0.00	H
ATOM	154	N	ASP	A	116	35.118	123.537	27.973	1.00	0.00	N
ATOM	155	H	ASP	A	116	34.656	122.665	28.177	1.00	0.00	H
ATOM	156	CA	ASP	A	116	36.564	123.593	28.196	1.00	0.00	C
ATOM	157	HA	ASP	A	116	36.785	124.499	28.762	1.00	0.00	H
ATOM	158	C	ASP	A	116	37.382	123.631	26.886	1.00	0.00	C
ATOM	159	O	ASP	A	116	37.011	123.032	25.880	1.00	0.00	O
ATOM	160	CB	ASP	A	116	36.953	122.387	29.053	1.00	0.00	C
ATOM	161	1HB	ASP	A	116	36.325	122.362	29.946	1.00	0.00	H
ATOM	162	2HB	ASP	A	116	36.774	121.470	28.489	1.00	0.00	H
ATOM	163	CG	ASP	A	116	38.416	122.445	29.476	1.00	0.00	C
ATOM	164	OD1	ASP	A	116	38.696	122.800	30.639	1.00	0.00	O
ATOM	165	OD2	ASP	A	116	39.288	122.059	28.674	1.00	0.00	O
ATOM	166	N	TYR	A	117	38.533	124.308	26.926	1.00	0.00	N
ATOM	167	H	TYR	A	117	38.850	124.619	27.829	1.00	0.00	H
ATOM	168	CA	TYR	A	117	39.436	124.536	25.791	1.00	0.00	C
ATOM	169	HA	TYR	A	117	38.839	124.944	24.977	1.00	0.00	H
ATOM	170	C	TYR	A	117	40.139	123.287	25.215	1.00	0.00	C
ATOM	171	O	TYR	A	117	40.881	123.421	24.240	1.00	0.00	O
ATOM	172	CB	TYR	A	117	40.480	125.586	26.212	1.00	0.00	C
ATOM	173	1HB	TYR	A	117	40.993	125.939	25.316	1.00	0.00	H
ATOM	174	2HB	TYR	A	117	39.969	126.446	26.646	1.00	0.00	H
ATOM	175	CG	TYR	A	117	41.522	125.076	27.194	1.00	0.00	C
ATOM	176	CD1	TYR	A	117	41.288	125.135	28.583	1.00	0.00	C
ATOM	177	HD1	TYR	A	117	40.370	125.554	28.968	1.00	0.00	H

ATOM	178	CD2	TYR	A	117	42.710	124.494	26.709	1.00	0.00	C
ATOM	179	HD2	TYR	A	117	42.874	124.422	25.641	1.00	0.00	H
ATOM	180	CE1	TYR	A	117	42.233	124.600	29.481	1.00	0.00	C
ATOM	181	HE1	TYR	A	117	42.040	124.605	30.543	1.00	0.00	H
ATOM	182	CE2	TYR	A	117	43.653	123.953	27.602	1.00	0.00	C
ATOM	183	HE2	TYR	A	117	44.544	123.481	27.219	1.00	0.00	H
ATOM	184	CZ	TYR	A	117	43.411	124.001	28.991	1.00	0.00	C
ATOM	185	OH	TYR	A	117	44.315	123.466	29.854	1.00	0.00	O
ATOM	186	HH	TYR	A	117	45.013	123.012	29.383	1.00	0.00	H
ATOM	187	N	ALA	A	118	39.964	122.107	25.818	1.00	0.00	N
ATOM	188	H	ALA	A	118	39.448	122.098	26.694	1.00	0.00	H
ATOM	189	CA	ALA	A	118	40.595	120.851	25.400	1.00	0.00	C
ATOM	190	HA	ALA	A	118	41.089	121.002	24.440	1.00	0.00	H
ATOM	191	C	ALA	A	118	39.596	119.693	25.179	1.00	0.00	C
ATOM	192	O	ALA	A	118	40.022	118.564	24.939	1.00	0.00	O
ATOM	193	CB	ALA	A	118	41.670	120.503	26.439	1.00	0.00	C
ATOM	194	1HB	ALA	A	118	41.198	120.320	27.404	1.00	0.00	H
ATOM	195	2HB	ALA	A	118	42.375	121.329	26.531	1.00	0.00	H
ATOM	196	3HB	ALA	A	118	42.205	119.606	26.126	1.00	0.00	H
ATOM	197	N	CYS	A	119	38.289	119.968	25.247	1.00	0.00	N
ATOM	198	H	CYS	A	119	38.015	120.932	25.378	1.00	0.00	H
ATOM	199	CA	CYS	A	119	37.224	119.000	24.977	1.00	0.00	C
ATOM	200	HA	CYS	A	119	37.392	118.097	25.568	1.00	0.00	H
ATOM	201	C	CYS	A	119	37.169	118.614	23.484	1.00	0.00	C
ATOM	202	O	CYS	A	119	37.225	119.488	22.616	1.00	0.00	O
ATOM	203	CB	CYS	A	119	35.911	119.665	25.415	1.00	0.00	C
ATOM	204	1HB	CYS	A	119	36.050	120.131	26.390	1.00	0.00	H
ATOM	205	2HB	CYS	A	119	35.639	120.437	24.692	1.00	0.00	H
ATOM	206	SG	CYS	A	119	34.568	118.455	25.550	1.00	0.00	S
ATOM	207	HG	CYS	A	119	34.586	117.984	24.288	1.00	0.00	H
ATOM	208	N	THR	A	120	36.993	117.328	23.176	1.00	0.00	N
ATOM	209	H	THR	A	120	36.946	116.652	23.938	1.00	0.00	H
ATOM	210	CA	THR	A	120	36.555	116.875	21.840	1.00	0.00	C
ATOM	211	HA	THR	A	120	37.110	117.423	21.080	1.00	0.00	H
ATOM	212	C	THR	A	120	35.055	117.143	21.648	1.00	0.00	C
ATOM	213	O	THR	A	120	34.318	117.166	22.635	1.00	0.00	O
ATOM	214	CB	THR	A	120	36.804	115.370	21.629	1.00	0.00	C
ATOM	215	HB	THR	A	120	36.471	115.100	20.626	1.00	0.00	H
ATOM	216	OG1	THR	A	120	36.090	114.585	22.555	1.00	0.00	O
ATOM	217	HG1	THR	A	120	36.412	114.817	23.453	1.00	0.00	H
ATOM	218	CG2	THR	A	120	38.281	114.998	21.754	1.00	0.00	C
ATOM	219	1HG2	THR	A	120	38.866	115.584	21.046	1.00	0.00	H
ATOM	220	2HG2	THR	A	120	38.402	113.940	21.523	1.00	0.00	H
ATOM	221	3HG2	THR	A	120	38.635	115.187	22.768	1.00	0.00	H
ATOM	222	N	PRO	A	121	34.543	117.315	20.415	1.00	0.00	N
ATOM	223	CA	PRO	A	121	33.100	117.289	20.187	1.00	0.00	C
ATOM	224	HA	PRO	A	121	32.597	117.951	20.892	1.00	0.00	H
ATOM	225	C	PRO	A	121	32.520	115.874	20.369	1.00	0.00	C
ATOM	226	O	PRO	A	121	31.414	115.732	20.891	1.00	0.00	O
ATOM	227	CB	PRO	A	121	32.908	117.837	18.773	1.00	0.00	C
ATOM	228	1HB	PRO	A	121	32.059	117.384	18.267	1.00	0.00	H
ATOM	229	2HB	PRO	A	121	32.777	118.914	18.830	1.00	0.00	H
ATOM	230	CG	PRO	A	121	34.218	117.523	18.056	1.00	0.00	C
ATOM	231	1HG	PRO	A	121	34.139	116.538	17.608	1.00	0.00	H
ATOM	232	2HG	PRO	A	121	34.448	118.254	17.282	1.00	0.00	H
ATOM	233	CD	PRO	A	121	35.270	117.529	19.170	1.00	0.00	C
ATOM	234	1HD	PRO	A	121	36.009	116.746	18.994	1.00	0.00	H
ATOM	235	2HD	PRO	A	121	35.761	118.502	19.202	1.00	0.00	H
ATOM	236	N	GLU	A	122	33.267	114.825	20.011	1.00	0.00	N
ATOM	237	H	GLU	A	122	34.151	114.993	19.531	1.00	0.00	H
ATOM	238	CA	GLU	A	122	32.855	113.422	20.157	1.00	0.00	C
ATOM	239	HA	GLU	A	122	31.989	113.241	19.520	1.00	0.00	H
ATOM	240	C	GLU	A	122	32.434	113.056	21.590	1.00	0.00	C
ATOM	241	O	GLU	A	122	31.403	112.406	21.784	1.00	0.00	O
ATOM	242	CB	GLU	A	122	33.995	112.491	19.704	1.00	0.00	C
ATOM	243	1HB	GLU	A	122	34.935	112.809	20.158	1.00	0.00	H
ATOM	244	2HB	GLU	A	122	33.779	111.488	20.076	1.00	0.00	H
ATOM	245	CG	GLU	A	122	34.161	112.374	18.180	1.00	0.00	C
ATOM	246	1HG	GLU	A	122	34.913	111.608	17.984	1.00	0.00	H
ATOM	247	2HG	GLU	A	122	33.214	112.025	17.761	1.00	0.00	H
ATOM	248	CD	GLU	A	122	34.586	113.670	17.476	1.00	0.00	C
ATOM	249	OE1	GLU	A	122	34.123	113.901	16.334	1.00	0.00	O
ATOM	250	OE2	GLU	A	122	35.341	114.475	18.068	1.00	0.00	O
ATOM	251	N	GLU	A	123	33.180	113.488	22.614	1.00	0.00	N
ATOM	252	H	GLU	A	123	34.045	113.990	22.429	1.00	0.00	H
ATOM	253	CA	GLU	A	123	32.814	113.174	23.999	1.00	0.00	C
ATOM	254	HA	GLU	A	123	32.551	112.119	24.013	1.00	0.00	H

ATOM	255	C	GLU	A	123	31.574	113.940	24.495	1.00	0.00	C
ATOM	256	O	GLU	A	123	30.873	113.433	25.374	1.00	0.00	O
ATOM	257	CB	GLU	A	123	34.014	113.296	24.948	1.00	0.00	C
ATOM	258	1HB	GLU	A	123	33.793	112.740	25.860	1.00	0.00	H
ATOM	259	2HB	GLU	A	123	34.872	112.817	24.473	1.00	0.00	H
ATOM	260	CG	GLU	A	123	34.382	114.728	25.340	1.00	0.00	C
ATOM	261	1HG	GLU	A	123	34.268	115.381	24.476	1.00	0.00	H
ATOM	262	2HG	GLU	A	123	33.701	115.079	26.119	1.00	0.00	H
ATOM	263	CD	GLU	A	123	35.828	114.779	25.835	1.00	0.00	C
ATOM	264	OE1	GLU	A	123	36.700	115.260	25.071	1.00	0.00	O
ATOM	265	OE2	GLU	A	123	36.092	114.332	26.974	1.00	0.00	O
ATOM	266	N	VAL	A	124	31.248	115.106	23.914	1.00	0.00	N
ATOM	267	H	VAL	A	124	31.832	115.431	23.150	1.00	0.00	H
ATOM	268	CA	VAL	A	124	30.047	115.894	24.264	1.00	0.00	C
ATOM	269	HA	VAL	A	124	30.061	116.080	25.333	1.00	0.00	H
ATOM	270	C	VAL	A	124	28.772	115.109	23.965	1.00	0.00	C
ATOM	271	O	VAL	A	124	27.903	114.996	24.834	1.00	0.00	O
ATOM	272	CB	VAL	A	124	30.001	117.256	23.529	1.00	0.00	C
ATOM	273	HB	VAL	A	124	29.979	117.079	22.457	1.00	0.00	H
ATOM	274	CG1	VAL	A	124	28.756	118.080	23.887	1.00	0.00	C
ATOM	275	1HG1	VAL	A	124	28.788	119.039	23.370	1.00	0.00	H
ATOM	276	2HG1	VAL	A	124	28.721	118.248	24.963	1.00	0.00	H
ATOM	277	3HG1	VAL	A	124	27.852	117.559	23.573	1.00	0.00	H
ATOM	278	CG2	VAL	A	124	31.206	118.147	23.847	1.00	0.00	C
ATOM	279	1HG2	VAL	A	124	31.216	119.006	23.176	1.00	0.00	H
ATOM	280	2HG2	VAL	A	124	32.129	117.593	23.700	1.00	0.00	H
ATOM	281	3HG2	VAL	A	124	31.165	118.501	24.875	1.00	0.00	H
ATOM	282	N	GLN	A	125	28.656	114.540	22.759	1.00	0.00	N
ATOM	283	H	GLN	A	125	29.415	114.641	22.096	1.00	0.00	H
ATOM	284	CA	GLN	A	125	27.453	113.796	22.374	1.00	0.00	C
ATOM	285	HA	GLN	A	125	26.601	114.448	22.576	1.00	0.00	H
ATOM	286	C	GLN	A	125	27.220	112.564	23.261	1.00	0.00	C
ATOM	287	O	GLN	A	125	26.123	112.419	23.797	1.00	0.00	O
ATOM	288	CB	GLN	A	125	27.397	113.510	20.860	1.00	0.00	C
ATOM	289	1HB	GLN	A	125	26.556	112.843	20.664	1.00	0.00	H
ATOM	290	2HB	GLN	A	125	27.163	114.458	20.379	1.00	0.00	H
ATOM	291	CG	GLN	A	125	28.655	112.930	20.176	1.00	0.00	C
ATOM	292	1HG	GLN	A	125	29.515	113.552	20.417	1.00	0.00	H
ATOM	293	2HG	GLN	A	125	28.839	111.920	20.541	1.00	0.00	H
ATOM	294	CD	GLN	A	125	28.538	112.901	18.646	1.00	0.00	C
ATOM	295	OE1	GLN	A	125	27.572	113.372	18.070	1.00	0.00	O
ATOM	296	NE2	GLN	A	125	29.527	112.400	17.935	1.00	0.00	N
ATOM	297	1HE2	GLN	A	125	29.456	112.450	16.912	1.00	0.00	H
ATOM	298	2HE2	GLN	A	125	30.314	111.958	18.364	1.00	0.00	H
ATOM	299	N	GLN	A	126	28.239	111.738	23.534	1.00	0.00	N
ATOM	300	H	GLN	A	126	29.133	111.899	23.086	1.00	0.00	H
ATOM	301	CA	GLN	A	126	28.076	110.577	24.431	1.00	0.00	C
ATOM	302	HA	GLN	A	126	27.152	110.083	24.131	1.00	0.00	H
ATOM	303	C	GLN	A	126	27.871	110.943	25.919	1.00	0.00	C
ATOM	304	O	GLN	A	126	27.185	110.208	26.637	1.00	0.00	O
ATOM	305	CB	GLN	A	126	29.183	109.534	24.193	1.00	0.00	C
ATOM	306	1HB	GLN	A	126	28.962	108.639	24.777	1.00	0.00	H
ATOM	307	2HB	GLN	A	126	29.136	109.247	23.142	1.00	0.00	H
ATOM	308	CG	GLN	A	126	30.622	109.986	24.484	1.00	0.00	C
ATOM	309	1HG	GLN	A	126	31.303	109.366	23.899	1.00	0.00	H
ATOM	310	2HG	GLN	A	126	30.747	111.011	24.150	1.00	0.00	H
ATOM	311	CD	GLN	A	126	31.028	109.847	25.948	1.00	0.00	C
ATOM	312	OE1	GLN	A	126	31.127	108.764	26.498	1.00	0.00	O
ATOM	313	NE2	GLN	A	126	31.297	110.928	26.641	1.00	0.00	N
ATOM	314	1HE2	GLN	A	126	31.574	110.790	27.595	1.00	0.00	H
ATOM	315	2HE2	GLN	A	126	31.197	111.847	26.223	1.00	0.00	H
ATOM	316	N	HIS	A	127	28.365	112.103	26.381	1.00	0.00	N
ATOM	317	H	HIS	A	127	28.925	112.682	25.766	1.00	0.00	H
ATOM	318	CA	HIS	A	127	28.056	112.619	27.724	1.00	0.00	C
ATOM	319	HA	HIS	A	127	28.361	111.878	28.465	1.00	0.00	H
ATOM	320	C	HIS	A	127	26.545	112.832	27.895	1.00	0.00	C
ATOM	321	O	HIS	A	127	25.963	112.361	28.870	1.00	0.00	O
ATOM	322	CB	HIS	A	127	28.810	113.936	28.005	1.00	0.00	C
ATOM	323	1HB	HIS	A	127	29.202	114.354	27.080	1.00	0.00	H
ATOM	324	2HB	HIS	A	127	28.097	114.665	28.394	1.00	0.00	H
ATOM	325	CG	HIS	A	127	29.932	113.832	29.014	1.00	0.00	C
ATOM	326	ND1	HIS	A	127	29.845	114.132	30.358	1.00	0.00	N
ATOM	327	HD1	HIS	A	127	29.056	114.571	30.823	1.00	0.00	H
ATOM	328	CD2	HIS	A	127	31.251	113.572	28.754	1.00	0.00	C
ATOM	329	HD2	HIS	A	127	31.679	113.375	27.782	1.00	0.00	H
ATOM	330	CE1	HIS	A	127	31.070	114.021	30.896	1.00	0.00	C
ATOM	331	HE1	HIS	A	127	31.321	114.264	31.923	1.00	0.00	H

ATOM	332	NE2	HIS	A	127	31.968	113.702	29.950	1.00	0.00	N
ATOM	333	N	PHE	A	128	25.889	113.498	26.938	1.00	0.00	N
ATOM	334	H	PHE	A	128	26.413	113.884	26.160	1.00	0.00	H
ATOM	335	CA	PHE	A	128	24.441	113.721	27.002	1.00	0.00	C
ATOM	336	HA	PHE	A	128	24.172	113.913	28.041	1.00	0.00	H
ATOM	337	C	PHE	A	128	23.620	112.485	26.600	1.00	0.00	C
ATOM	338	O	PHE	A	128	22.563	112.256	27.189	1.00	0.00	O
ATOM	339	CB	PHE	A	128	24.070	114.967	26.188	1.00	0.00	C
ATOM	340	1HB	PHE	A	128	24.330	114.788	25.143	1.00	0.00	H
ATOM	341	2HB	PHE	A	128	22.990	115.109	26.241	1.00	0.00	H
ATOM	342	CG	PHE	A	128	24.738	116.253	26.659	1.00	0.00	C
ATOM	343	CD1	PHE	A	128	24.751	116.605	28.026	1.00	0.00	C
ATOM	344	HD1	PHE	A	128	24.288	115.963	28.760	1.00	0.00	H
ATOM	345	CD2	PHE	A	128	25.362	117.103	25.726	1.00	0.00	C
ATOM	346	HD2	PHE	A	128	25.385	116.834	24.680	1.00	0.00	H
ATOM	347	CE1	PHE	A	128	25.391	117.784	28.452	1.00	0.00	C
ATOM	348	HE1	PHE	A	128	25.433	118.026	29.504	1.00	0.00	H
ATOM	349	CE2	PHE	A	128	25.970	118.297	26.150	1.00	0.00	C
ATOM	350	HE2	PHE	A	128	26.444	118.942	25.427	1.00	0.00	H
ATOM	351	CZ	PHE	A	128	25.984	118.641	27.511	1.00	0.00	C
ATOM	352	HZ	PHE	A	128	26.468	119.552	27.834	1.00	0.00	H
ATOM	353	N	GLN	A	129	24.129	111.629	25.702	1.00	0.00	N
ATOM	354	H	GLN	A	129	24.968	111.900	25.198	1.00	0.00	H
ATOM	355	CA	GLN	A	129	23.509	110.338	25.361	1.00	0.00	C
ATOM	356	HA	GLN	A	129	22.508	110.545	24.995	1.00	0.00	H
ATOM	357	C	GLN	A	129	23.361	109.409	26.578	1.00	0.00	C
ATOM	358	O	GLN	A	129	22.417	108.626	26.653	1.00	0.00	O
ATOM	359	CB	GLN	A	129	24.291	109.657	24.225	1.00	0.00	C
ATOM	360	1HB	GLN	A	129	24.656	110.411	23.530	1.00	0.00	H
ATOM	361	2HB	GLN	A	129	25.148	109.123	24.638	1.00	0.00	H
ATOM	362	CG	GLN	A	129	23.418	108.687	23.417	1.00	0.00	C
ATOM	363	1HG	GLN	A	129	23.077	107.875	24.059	1.00	0.00	H
ATOM	364	2HG	GLN	A	129	22.546	109.214	23.029	1.00	0.00	H
ATOM	365	CD	GLN	A	129	24.202	108.091	22.253	1.00	0.00	C
ATOM	366	OE1	GLN	A	129	24.942	107.136	22.410	1.00	0.00	O
ATOM	367	NE2	GLN	A	129	24.095	108.626	21.057	1.00	0.00	N
ATOM	368	1HE2	GLN	A	129	24.646	108.204	20.331	1.00	0.00	H
ATOM	369	2HE2	GLN	A	129	23.497	109.425	20.870	1.00	0.00	H
ATOM	370	N	SER	A	130	24.243	109.557	27.574	1.00	0.00	N
ATOM	371	H	SER	A	130	25.012	110.197	27.425	1.00	0.00	H
ATOM	372	CA	SER	A	130	24.155	108.882	28.878	1.00	0.00	C
ATOM	373	HA	SER	A	130	24.031	107.814	28.700	1.00	0.00	H
ATOM	374	C	SER	A	130	22.965	109.330	29.754	1.00	0.00	C
ATOM	375	O	SER	A	130	22.700	108.701	30.778	1.00	0.00	O
ATOM	376	CB	SER	A	130	25.462	109.078	29.654	1.00	0.00	C
ATOM	377	1HB	SER	A	130	25.610	110.134	29.875	1.00	0.00	H
ATOM	378	2HB	SER	A	130	25.396	108.537	30.599	1.00	0.00	H
ATOM	379	OG	SER	A	130	26.572	108.577	28.926	1.00	0.00	O
ATOM	380	HG	SER	A	130	26.741	109.140	28.151	1.00	0.00	H
ATOM	381	N	CYS	A	131	22.232	110.380	29.358	1.00	0.00	N
ATOM	382	H	CYS	A	131	22.529	110.862	28.519	1.00	0.00	H
ATOM	383	CA	CYS	A	131	21.077	110.936	30.076	1.00	0.00	C
ATOM	384	HA	CYS	A	131	20.860	110.330	30.956	1.00	0.00	H
ATOM	385	C	CYS	A	131	19.786	110.971	29.234	1.00	0.00	C
ATOM	386	O	CYS	A	131	18.695	110.887	29.795	1.00	0.00	O
ATOM	387	CB	CYS	A	131	21.413	112.361	30.539	1.00	0.00	C
ATOM	388	1HB	CYS	A	131	21.764	112.952	29.690	1.00	0.00	H
ATOM	389	2HB	CYS	A	131	20.508	112.826	30.930	1.00	0.00	H
ATOM	390	SG	CYS	A	131	22.671	112.366	31.845	1.00	0.00	S
ATOM	391	HG	CYS	A	131	22.639	113.698	32.025	1.00	0.00	H
ATOM	392	N	GLY	A	132	19.884	111.073	27.906	1.00	0.00	N
ATOM	393	H	GLY	A	132	20.802	111.211	27.493	1.00	0.00	H
ATOM	394	CA	GLY	A	132	18.749	111.007	26.981	1.00	0.00	C
ATOM	395	1HA	GLY	A	132	18.139	110.137	27.224	1.00	0.00	H
ATOM	396	2HA	GLY	A	132	18.137	111.903	27.084	1.00	0.00	H
ATOM	397	C	GLY	A	132	19.218	110.899	25.529	1.00	0.00	C
ATOM	398	O	GLY	A	132	20.310	111.349	25.200	1.00	0.00	O
ATOM	399	N	THR	A	133	18.419	110.276	24.657	1.00	0.00	N
ATOM	400	H	THR	A	133	17.512	109.960	24.959	1.00	0.00	H
ATOM	401	CA	THR	A	133	18.840	110.019	23.267	1.00	0.00	C
ATOM	402	HA	THR	A	133	19.780	109.471	23.325	1.00	0.00	H
ATOM	403	C	THR	A	133	19.130	111.316	22.499	1.00	0.00	C
ATOM	404	O	THR	A	133	18.325	112.244	22.485	1.00	0.00	O
ATOM	405	CB	THR	A	133	17.865	109.092	22.527	1.00	0.00	C
ATOM	406	HB	THR	A	133	17.773	108.176	23.112	1.00	0.00	H
ATOM	407	OG1	THR	A	133	18.392	108.750	21.272	1.00	0.00	O
ATOM	408	HG1	THR	A	133	18.069	109.388	20.623	1.00	0.00	H

ATOM	409	CG2	THR	A	133	16.464	109.643	22.292	1.00	0.00	C
ATOM	410	1HG2	THR	A	133	15.835	108.864	21.860	1.00	0.00	H
ATOM	411	2HG2	THR	A	133	16.514	110.480	21.601	1.00	0.00	H
ATOM	412	3HG2	THR	A	133	16.026	109.973	23.233	1.00	0.00	H
ATOM	413	N	VAL	A	134	20.306	111.355	21.873	1.00	0.00	N
ATOM	414	H	VAL	A	134	20.874	110.520	21.906	1.00	0.00	H
ATOM	415	CA	VAL	A	134	20.908	112.481	21.144	1.00	0.00	C
ATOM	416	HA	VAL	A	134	20.125	113.077	20.683	1.00	0.00	H
ATOM	417	C	VAL	A	134	21.795	111.876	20.047	1.00	0.00	C
ATOM	418	O	VAL	A	134	22.370	110.805	20.273	1.00	0.00	O
ATOM	419	CB	VAL	A	134	21.692	113.380	22.129	1.00	0.00	C
ATOM	420	HB	VAL	A	134	21.050	113.568	22.991	1.00	0.00	H
ATOM	421	CG1	VAL	A	134	22.980	112.740	22.651	1.00	0.00	C
ATOM	422	1HG1	VAL	A	134	22.749	111.759	23.053	1.00	0.00	H
ATOM	423	2HG1	VAL	A	134	23.402	113.354	23.444	1.00	0.00	H
ATOM	424	3HG1	VAL	A	134	23.717	112.640	21.853	1.00	0.00	H
ATOM	425	CG2	VAL	A	134	22.050	114.746	21.548	1.00	0.00	C
ATOM	426	1HG2	VAL	A	134	21.136	115.296	21.330	1.00	0.00	H
ATOM	427	2HG2	VAL	A	134	22.638	114.632	20.637	1.00	0.00	H
ATOM	428	3HG2	VAL	A	134	22.623	115.313	22.279	1.00	0.00	H
ATOM	429	N	ASN	A	135	21.870	112.488	18.861	1.00	0.00	N
ATOM	430	H	ASN	A	135	21.389	113.378	18.737	1.00	0.00	H
ATOM	431	CA	ASN	A	135	22.408	111.821	17.665	1.00	0.00	C
ATOM	432	HA	ASN	A	135	22.728	110.811	17.925	1.00	0.00	H
ATOM	433	C	ASN	A	135	23.669	112.471	17.077	1.00	0.00	C
ATOM	434	O	ASN	A	135	24.549	111.720	16.661	1.00	0.00	O
ATOM	435	CB	ASN	A	135	21.286	111.656	16.621	1.00	0.00	C
ATOM	436	1HB	ASN	A	135	20.683	110.787	16.873	1.00	0.00	H
ATOM	437	2HB	ASN	A	135	20.634	112.528	16.629	1.00	0.00	H
ATOM	438	CG	ASN	A	135	21.836	111.463	15.215	1.00	0.00	C
ATOM	439	OD1	ASN	A	135	22.385	110.427	14.874	1.00	0.00	O
ATOM	440	ND2	ASN	A	135	21.772	112.482	14.397	1.00	0.00	N
ATOM	441	1HD2	ASN	A	135	22.147	112.392	13.471	1.00	0.00	H
ATOM	442	2HD2	ASN	A	135	21.445	113.382	14.769	1.00	0.00	H
ATOM	443	N	ARG	A	136	23.796	113.803	17.036	1.00	0.00	N
ATOM	444	H	ARG	A	136	22.969	114.365	17.216	1.00	0.00	H
ATOM	445	CA	ARG	A	136	24.995	114.473	16.491	1.00	0.00	C
ATOM	446	HA	ARG	A	136	25.816	113.755	16.510	1.00	0.00	H
ATOM	447	C	ARG	A	136	25.475	115.666	17.325	1.00	0.00	C
ATOM	448	O	ARG	A	136	24.786	116.118	18.241	1.00	0.00	O
ATOM	449	CB	ARG	A	136	24.745	114.885	15.025	1.00	0.00	C
ATOM	450	1HB	ARG	A	136	23.917	114.317	14.600	1.00	0.00	H
ATOM	451	2HB	ARG	A	136	24.453	115.936	14.994	1.00	0.00	H
ATOM	452	CG	ARG	A	136	25.999	114.678	14.151	1.00	0.00	C
ATOM	453	1HG	ARG	A	136	26.075	115.511	13.451	1.00	0.00	H
ATOM	454	2HG	ARG	A	136	26.904	114.676	14.758	1.00	0.00	H
ATOM	455	CD	ARG	A	136	25.962	113.386	13.331	1.00	0.00	C
ATOM	456	1HD	ARG	A	136	25.184	113.494	12.579	1.00	0.00	H
ATOM	457	2HD	ARG	A	136	26.913	113.290	12.812	1.00	0.00	H
ATOM	458	NE	ARG	A	136	25.669	112.172	14.118	1.00	0.00	N
ATOM	459	HE	ARG	A	136	25.060	112.264	14.920	1.00	0.00	H
ATOM	460	CZ	ARG	A	136	26.008	110.931	13.820	1.00	0.00	C
ATOM	461	NH1	ARG	A	136	26.996	110.633	13.030	1.00	0.00	N
ATOM	462	1HH1	ARG	A	136	27.659	111.386	12.822	1.00	0.00	H
ATOM	463	2HH1	ARG	A	136	27.246	109.689	12.812	1.00	0.00	H
ATOM	464	NH2	ARG	A	136	25.324	109.947	14.324	1.00	0.00	N
ATOM	465	1HH2	ARG	A	136	24.503	110.164	14.879	1.00	0.00	H
ATOM	466	2HH2	ARG	A	136	25.562	109.005	14.091	1.00	0.00	H
ATOM	467	N	VAL	A	137	26.638	116.204	16.947	1.00	0.00	N
ATOM	468	H	VAL	A	137	27.128	115.738	16.198	1.00	0.00	H
ATOM	469	CA	VAL	A	137	27.318	117.363	17.541	1.00	0.00	C
ATOM	470	HA	VAL	A	137	26.579	117.959	18.070	1.00	0.00	H
ATOM	471	C	VAL	A	137	27.966	118.238	16.465	1.00	0.00	C
ATOM	472	O	VAL	A	137	28.562	117.725	15.522	1.00	0.00	O
ATOM	473	CB	VAL	A	137	28.384	116.884	18.553	1.00	0.00	C
ATOM	474	HB	VAL	A	137	27.888	116.233	19.269	1.00	0.00	H
ATOM	475	CG1	VAL	A	137	29.525	116.082	17.907	1.00	0.00	C
ATOM	476	1HG1	VAL	A	137	30.154	116.731	17.304	1.00	0.00	H
ATOM	477	2HG1	VAL	A	137	29.124	115.302	17.261	1.00	0.00	H
ATOM	478	3HG1	VAL	A	137	30.127	115.609	18.679	1.00	0.00	H
ATOM	479	CG2	VAL	A	137	29.002	118.041	19.353	1.00	0.00	C
ATOM	480	1HG2	VAL	A	137	29.636	117.637	20.140	1.00	0.00	H
ATOM	481	2HG2	VAL	A	137	28.214	118.640	19.809	1.00	0.00	H
ATOM	482	3HG2	VAL	A	137	29.607	118.676	18.707	1.00	0.00	H
ATOM	483	N	THR	A	138	27.942	119.555	16.669	1.00	0.00	N
ATOM	484	H	THR	A	138	27.403	119.898	17.458	1.00	0.00	H
ATOM	485	CA	THR	A	138	28.671	120.555	15.865	1.00	0.00	C



ATOM	486	HA	THR	A	138	29.433	120.064	15.259	1.00	0.00	H
ATOM	487	C	THR	A	138	29.338	121.546	16.819	1.00	0.00	C
ATOM	488	O	THR	A	138	28.767	121.867	17.861	1.00	0.00	O
ATOM	489	CB	THR	A	138	27.713	121.306	14.929	1.00	0.00	C
ATOM	490	HB	THR	A	138	26.995	121.840	15.544	1.00	0.00	H
ATOM	491	OG1	THR	A	138	27.015	120.417	14.094	1.00	0.00	O
ATOM	492	HG1	THR	A	138	26.512	120.952	13.472	1.00	0.00	H
ATOM	493	CG2	THR	A	138	28.413	122.295	13.997	1.00	0.00	C
ATOM	494	1HG2	THR	A	138	28.859	123.108	14.568	1.00	0.00	H
ATOM	495	2HG2	THR	A	138	27.688	122.728	13.306	1.00	0.00	H
ATOM	496	3HG2	THR	A	138	29.187	121.785	13.420	1.00	0.00	H
ATOM	497	N	ILE	A	139	30.543	122.035	16.503	1.00	0.00	N
ATOM	498	H	ILE	A	139	30.938	121.820	15.597	1.00	0.00	H
ATOM	499	CA	ILE	A	139	31.396	122.767	17.456	1.00	0.00	C
ATOM	500	HA	ILE	A	139	30.765	123.150	18.256	1.00	0.00	H
ATOM	501	C	ILE	A	139	32.086	123.984	16.828	1.00	0.00	C
ATOM	502	O	ILE	A	139	32.533	123.953	15.684	1.00	0.00	O
ATOM	503	CB	ILE	A	139	32.403	121.786	18.106	1.00	0.00	C
ATOM	504	HB	ILE	A	139	31.818	120.949	18.491	1.00	0.00	H
ATOM	505	CG1	ILE	A	139	33.130	122.422	19.311	1.00	0.00	C
ATOM	506	1HG1	ILE	A	139	33.843	123.164	18.959	1.00	0.00	H
ATOM	507	2HG1	ILE	A	139	32.398	122.932	19.932	1.00	0.00	H
ATOM	508	CG2	ILE	A	139	33.415	121.231	17.082	1.00	0.00	C
ATOM	509	1HG2	ILE	A	139	34.065	120.495	17.548	1.00	0.00	H
ATOM	510	2HG2	ILE	A	139	34.040	122.030	16.686	1.00	0.00	H
ATOM	511	3HG2	ILE	A	139	32.894	120.745	16.257	1.00	0.00	H
ATOM	512	CD1	ILE	A	139	33.868	121.414	20.205	1.00	0.00	C
ATOM	513	1HD1	ILE	A	139	33.169	120.663	20.575	1.00	0.00	H
ATOM	514	2HD1	ILE	A	139	34.302	121.936	21.057	1.00	0.00	H
ATOM	515	3HD1	ILE	A	139	34.674	120.927	19.657	1.00	0.00	H
ATOM	516	N	LEU	A	140	32.233	125.044	17.623	1.00	0.00	N
ATOM	517	H	LEU	A	140	31.810	124.996	18.546	1.00	0.00	H
ATOM	518	CA	LEU	A	140	32.927	126.284	17.292	1.00	0.00	C
ATOM	519	HA	LEU	A	140	33.442	126.133	16.342	1.00	0.00	H
ATOM	520	C	LEU	A	140	34.017	126.556	18.339	1.00	0.00	C
ATOM	521	O	LEU	A	140	33.972	127.495	19.133	1.00	0.00	O
ATOM	522	CB	LEU	A	140	31.902	127.413	17.073	1.00	0.00	C
ATOM	523	1HB	LEU	A	140	31.227	127.086	16.280	1.00	0.00	H
ATOM	524	2HB	LEU	A	140	31.310	127.535	17.981	1.00	0.00	H
ATOM	525	CG	LEU	A	140	32.482	128.790	16.681	1.00	0.00	C
ATOM	526	HG	LEU	A	140	32.839	129.297	17.577	1.00	0.00	H
ATOM	527	CD1	LEU	A	140	33.639	128.725	15.675	1.00	0.00	C
ATOM	528	1HD1	LEU	A	140	34.507	128.254	16.131	1.00	0.00	H
ATOM	529	2HD1	LEU	A	140	33.913	129.734	15.369	1.00	0.00	H
ATOM	530	3HD1	LEU	A	140	33.329	128.156	14.797	1.00	0.00	H
ATOM	531	CD2	LEU	A	140	31.384	129.646	16.048	1.00	0.00	C
ATOM	532	1HD2	LEU	A	140	31.098	129.236	15.078	1.00	0.00	H
ATOM	533	2HD2	LEU	A	140	31.735	130.669	15.916	1.00	0.00	H
ATOM	534	3HD2	LEU	A	140	30.503	129.653	16.688	1.00	0.00	H
ATOM	535	N	THR	A	141	35.026	125.684	18.327	1.00	0.00	N
ATOM	536	H	THR	A	141	34.914	124.861	17.750	1.00	0.00	H
ATOM	537	CA	THR	A	141	36.312	125.824	19.025	1.00	0.00	C
ATOM	538	HA	THR	A	141	36.130	125.803	20.096	1.00	0.00	H
ATOM	539	C	THR	A	141	36.975	127.162	18.674	1.00	0.00	C
ATOM	540	O	THR	A	141	37.709	127.253	17.689	1.00	0.00	O
ATOM	541	CB	THR	A	141	37.223	124.629	18.681	1.00	0.00	C
ATOM	542	HB	THR	A	141	37.499	124.673	17.627	1.00	0.00	H
ATOM	543	OG1	THR	A	141	36.508	123.441	18.909	1.00	0.00	O
ATOM	544	HG1	THR	A	141	37.119	122.698	18.928	1.00	0.00	H
ATOM	545	CG2	THR	A	141	38.493	124.550	19.526	1.00	0.00	C
ATOM	546	1HG2	THR	A	141	39.039	125.491	19.484	1.00	0.00	H
ATOM	547	2HG2	THR	A	141	39.132	123.753	19.146	1.00	0.00	H
ATOM	548	3HG2	THR	A	141	38.237	124.326	20.560	1.00	0.00	H
ATOM	549	N	ASP	A	142	36.665	128.213	19.441	1.00	0.00	N
ATOM	550	H	ASP	A	142	35.894	128.057	20.079	1.00	0.00	H
ATOM	551	CA	ASP	A	142	37.024	129.625	19.218	1.00	0.00	C
ATOM	552	HA	ASP	A	142	36.395	129.987	18.404	1.00	0.00	H
ATOM	553	C	ASP	A	142	38.487	129.899	18.782	1.00	0.00	C
ATOM	554	O	ASP	A	142	39.407	129.103	18.993	1.00	0.00	O
ATOM	555	CB	ASP	A	142	36.614	130.431	20.470	1.00	0.00	C
ATOM	556	1HB	ASP	A	142	35.533	130.575	20.462	1.00	0.00	H
ATOM	557	2HB	ASP	A	142	36.864	129.870	21.364	1.00	0.00	H
ATOM	558	CG	ASP	A	142	37.320	131.780	20.560	1.00	0.00	C
ATOM	559	OD1	ASP	A	142	36.971	132.699	19.795	1.00	0.00	O
ATOM	560	OD2	ASP	A	142	38.368	131.867	21.235	1.00	0.00	O
ATOM	561	N	LYS	A	143	38.707	131.058	18.143	1.00	0.00	N
ATOM	562	H	LYS	A	143	37.922	131.707	18.112	1.00	0.00	H

ATOM	563	CA	LYS	A	143	40.018	131.543	17.676	1.00	0.00	C
ATOM	564	HA	LYS	A	143	40.787	130.927	18.140	1.00	0.00	H
ATOM	565	C	LYS	A	143	40.343	132.983	18.129	1.00	0.00	C
ATOM	566	O	LYS	A	143	41.308	133.559	17.632	1.00	0.00	O
ATOM	567	CB	LYS	A	143	40.098	131.396	16.137	1.00	0.00	C
ATOM	568	1HB	LYS	A	143	39.359	130.682	15.772	1.00	0.00	H
ATOM	569	2HB	LYS	A	143	39.840	132.356	15.685	1.00	0.00	H
ATOM	570	CG	LYS	A	143	41.497	130.979	15.642	1.00	0.00	C
ATOM	571	1HG	LYS	A	143	41.691	131.502	14.705	1.00	0.00	H
ATOM	572	2HG	LYS	A	143	42.250	131.316	16.356	1.00	0.00	H
ATOM	573	CD	LYS	A	143	41.701	129.473	15.375	1.00	0.00	C
ATOM	574	1HD	LYS	A	143	41.169	129.194	14.463	1.00	0.00	H
ATOM	575	2HD	LYS	A	143	42.765	129.321	15.183	1.00	0.00	H
ATOM	576	CE	LYS	A	143	41.289	128.537	16.522	1.00	0.00	C
ATOM	577	1HE	LYS	A	143	41.944	127.661	16.522	1.00	0.00	H
ATOM	578	2HE	LYS	A	143	41.427	129.056	17.476	1.00	0.00	H
ATOM	579	NZ	LYS	A	143	39.883	128.090	16.393	1.00	0.00	N
ATOM	580	1HZ	LYS	A	143	39.534	127.697	17.272	1.00	0.00	H
ATOM	581	2HZ	LYS	A	143	39.741	127.397	15.673	1.00	0.00	H
ATOM	582	3HZ	LYS	A	143	39.257	128.866	16.240	1.00	0.00	H
ATOM	583	N	PHE	A	144	39.556	133.568	19.035	1.00	0.00	N
ATOM	584	H	PHE	A	144	38.797	133.024	19.440	1.00	0.00	H
ATOM	585	CA	PHE	A	144	39.611	134.984	19.409	1.00	0.00	C
ATOM	586	HA	PHE	A	144	40.611	135.375	19.216	1.00	0.00	H
ATOM	587	C	PHE	A	144	39.320	135.240	20.899	1.00	0.00	C
ATOM	588	O	PHE	A	144	40.193	135.762	21.593	1.00	0.00	O
ATOM	589	CB	PHE	A	144	38.614	135.749	18.519	1.00	0.00	C
ATOM	590	1HB	PHE	A	144	38.980	135.739	17.492	1.00	0.00	H
ATOM	591	2HB	PHE	A	144	37.658	135.222	18.527	1.00	0.00	H
ATOM	592	CG	PHE	A	144	38.374	137.188	18.936	1.00	0.00	C
ATOM	593	CD1	PHE	A	144	39.395	138.147	18.790	1.00	0.00	C
ATOM	594	HD1	PHE	A	144	40.345	137.861	18.364	1.00	0.00	H
ATOM	595	CD2	PHE	A	144	37.141	137.561	19.506	1.00	0.00	C
ATOM	596	HD2	PHE	A	144	36.353	136.828	19.632	1.00	0.00	H
ATOM	597	CE1	PHE	A	144	39.184	139.472	19.213	1.00	0.00	C
ATOM	598	HE1	PHE	A	144	39.971	140.204	19.109	1.00	0.00	H
ATOM	599	CE2	PHE	A	144	36.932	138.885	19.930	1.00	0.00	C
ATOM	600	HE2	PHE	A	144	35.986	139.162	20.377	1.00	0.00	H
ATOM	601	CZ	PHE	A	144	37.952	139.841	19.784	1.00	0.00	C
ATOM	602	HZ	PHE	A	144	37.790	140.855	20.120	1.00	0.00	H
ATOM	603	N	GLY	A	145	38.137	134.879	21.413	1.00	0.00	N
ATOM	604	H	GLY	A	145	37.505	134.338	20.821	1.00	0.00	H
ATOM	605	CA	GLY	A	145	37.652	135.374	22.711	1.00	0.00	C
ATOM	606	1HA	GLY	A	145	38.492	135.610	23.365	1.00	0.00	H
ATOM	607	2HA	GLY	A	145	37.100	136.298	22.535	1.00	0.00	H
ATOM	608	C	GLY	A	145	36.723	134.420	23.459	1.00	0.00	C
ATOM	609	O	GLY	A	145	37.016	134.070	24.602	1.00	0.00	O
ATOM	610	N	GLN	A	146	35.679	133.930	22.794	1.00	0.00	N
ATOM	611	H	GLN	A	146	35.539	134.272	21.846	1.00	0.00	H
ATOM	612	CA	GLN	A	146	34.630	133.039	23.305	1.00	0.00	C
ATOM	613	HA	GLN	A	146	34.057	133.584	24.056	1.00	0.00	H
ATOM	614	C	GLN	A	146	35.167	131.748	23.978	1.00	0.00	C
ATOM	615	O	GLN	A	146	36.326	131.375	23.761	1.00	0.00	O
ATOM	616	CB	GLN	A	146	33.697	132.707	22.119	1.00	0.00	C
ATOM	617	1HB	GLN	A	146	34.287	132.429	21.245	1.00	0.00	H
ATOM	618	2HB	GLN	A	146	33.098	131.837	22.382	1.00	0.00	H
ATOM	619	CG	GLN	A	146	32.714	133.833	21.738	1.00	0.00	C
ATOM	620	1HG	GLN	A	146	31.902	133.377	21.171	1.00	0.00	H
ATOM	621	2HG	GLN	A	146	32.269	134.253	22.641	1.00	0.00	H
ATOM	622	CD	GLN	A	146	33.268	134.978	20.881	1.00	0.00	C
ATOM	623	OE1	GLN	A	146	34.461	135.146	20.654	1.00	0.00	O
ATOM	624	NE2	GLN	A	146	32.410	135.826	20.375	1.00	0.00	N
ATOM	625	1HE2	GLN	A	146	32.739	136.581	19.814	1.00	0.00	H
ATOM	626	2HE2	GLN	A	146	31.409	135.693	20.582	1.00	0.00	H
ATOM	627	N	PRO	A	147	34.364	131.022	24.789	1.00	0.00	N
ATOM	628	CA	PRO	A	147	34.758	129.726	25.356	1.00	0.00	C
ATOM	629	HA	PRO	A	147	35.598	129.879	26.033	1.00	0.00	H
ATOM	630	C	PRO	A	147	35.188	128.742	24.256	1.00	0.00	C
ATOM	631	O	PRO	A	147	34.458	128.510	23.294	1.00	0.00	O
ATOM	632	CB	PRO	A	147	33.559	129.232	26.176	1.00	0.00	C
ATOM	633	1HB	PRO	A	147	33.389	128.160	26.055	1.00	0.00	H
ATOM	634	2HB	PRO	A	147	33.723	129.469	27.228	1.00	0.00	H
ATOM	635	CG	PRO	A	147	32.379	130.052	25.652	1.00	0.00	C
ATOM	636	1HG	PRO	A	147	31.950	129.563	24.777	1.00	0.00	H
ATOM	637	2HG	PRO	A	147	31.617	130.203	26.417	1.00	0.00	H
ATOM	638	CD	PRO	A	147	33.019	131.369	25.226	1.00	0.00	C
ATOM	639	1HD	PRO	A	147	32.427	131.829	24.437	1.00	0.00	H

ATOM	640	2HD	PRO	A	147	33.080	132.043	26.081	1.00	0.00	H
ATOM	641	N	LYS	A	148	36.405	128.194	24.378	1.00	0.00	N
ATOM	642	H	LYS	A	148	36.882	128.334	25.254	1.00	0.00	H
ATOM	643	CA	LYS	A	148	37.170	127.556	23.288	1.00	0.00	C
ATOM	644	HA	LYS	A	148	36.950	128.095	22.372	1.00	0.00	H
ATOM	645	C	LYS	A	148	36.724	126.120	22.958	1.00	0.00	C
ATOM	646	O	LYS	A	148	37.555	125.241	22.785	1.00	0.00	O
ATOM	647	CB	LYS	A	148	38.691	127.681	23.532	1.00	0.00	C
ATOM	648	1HB	LYS	A	148	38.948	127.231	24.490	1.00	0.00	H
ATOM	649	2HB	LYS	A	148	39.205	127.113	22.754	1.00	0.00	H
ATOM	650	CG	LYS	A	148	39.254	129.113	23.457	1.00	0.00	C
ATOM	651	1HG	LYS	A	148	40.306	129.044	23.176	1.00	0.00	H
ATOM	652	2HG	LYS	A	148	38.740	129.658	22.668	1.00	0.00	H
ATOM	653	CD	LYS	A	148	39.178	129.897	24.778	1.00	0.00	C
ATOM	654	1HD	LYS	A	148	38.146	129.991	25.109	1.00	0.00	H
ATOM	655	2HD	LYS	A	148	39.731	129.345	25.540	1.00	0.00	H
ATOM	656	CE	LYS	A	148	39.787	131.301	24.658	1.00	0.00	C
ATOM	657	1HE	LYS	A	148	39.858	131.730	25.661	1.00	0.00	H
ATOM	658	2HE	LYS	A	148	40.795	131.221	24.242	1.00	0.00	H
ATOM	659	NZ	LYS	A	148	38.960	132.189	23.813	1.00	0.00	N
ATOM	660	1HZ	LYS	A	148	37.984	132.196	24.111	1.00	0.00	H
ATOM	661	2HZ	LYS	A	148	38.906	131.872	22.841	1.00	0.00	H
ATOM	662	3HZ	LYS	A	148	39.273	133.147	23.803	1.00	0.00	H
ATOM	663	N	GLY	A	149	35.416	125.912	22.846	1.00	0.00	N
ATOM	664	H	GLY	A	149	34.818	126.709	23.014	1.00	0.00	H
ATOM	665	CA	GLY	A	149	34.792	124.642	22.471	1.00	0.00	C
ATOM	666	1HA	GLY	A	149	35.115	124.359	21.469	1.00	0.00	H
ATOM	667	2HA	GLY	A	149	35.121	123.864	23.163	1.00	0.00	H
ATOM	668	C	GLY	A	149	33.260	124.668	22.480	1.00	0.00	C
ATOM	669	O	GLY	A	149	32.658	123.605	22.585	1.00	0.00	O
ATOM	670	N	PHE	A	150	32.608	125.843	22.465	1.00	0.00	N
ATOM	671	H	PHE	A	150	33.109	126.700	22.284	1.00	0.00	H
ATOM	672	CA	PHE	A	150	31.140	125.888	22.499	1.00	0.00	C
ATOM	673	HA	PHE	A	150	30.827	125.296	23.360	1.00	0.00	H
ATOM	674	C	PHE	A	150	30.526	125.207	21.266	1.00	0.00	C
ATOM	675	O	PHE	A	150	31.113	125.209	20.184	1.00	0.00	O
ATOM	676	CB	PHE	A	150	30.612	127.313	22.730	1.00	0.00	C
ATOM	677	1HB	PHE	A	150	29.581	127.228	23.075	1.00	0.00	H
ATOM	678	2HB	PHE	A	150	31.175	127.763	23.547	1.00	0.00	H
ATOM	679	CG	PHE	A	150	30.606	128.261	21.543	1.00	0.00	C
ATOM	680	CD1	PHE	A	150	31.605	129.244	21.401	1.00	0.00	C
ATOM	681	HD1	PHE	A	150	32.422	129.291	22.102	1.00	0.00	H
ATOM	682	CD2	PHE	A	150	29.544	128.216	20.618	1.00	0.00	C
ATOM	683	HD2	PHE	A	150	28.773	127.464	20.711	1.00	0.00	H
ATOM	684	CE1	PHE	A	150	31.535	130.179	20.353	1.00	0.00	C
ATOM	685	HE1	PHE	A	150	32.305	130.926	20.237	1.00	0.00	H
ATOM	686	CE2	PHE	A	150	29.468	129.156	19.577	1.00	0.00	C
ATOM	687	HE2	PHE	A	150	28.640	129.121	18.879	1.00	0.00	H
ATOM	688	CZ	PHE	A	150	30.457	130.146	19.453	1.00	0.00	C
ATOM	689	HZ	PHE	A	150	30.392	130.880	18.662	1.00	0.00	H
ATOM	690	N	ALA	A	151	29.358	124.599	21.440	1.00	0.00	N
ATOM	691	H	ALA	A	151	28.897	124.690	22.339	1.00	0.00	H
ATOM	692	CA	ALA	A	151	28.823	123.592	20.529	1.00	0.00	C
ATOM	693	HA	ALA	A	151	29.158	123.795	19.513	1.00	0.00	H
ATOM	694	C	ALA	A	151	27.286	123.587	20.510	1.00	0.00	C
ATOM	695	O	ALA	A	151	26.635	124.344	21.234	1.00	0.00	O
ATOM	696	CB	ALA	A	151	29.388	122.233	20.992	1.00	0.00	C
ATOM	697	1HB	ALA	A	151	29.034	121.425	20.353	1.00	0.00	H
ATOM	698	2HB	ALA	A	151	29.083	122.026	22.016	1.00	0.00	H
ATOM	699	3HB	ALA	A	151	30.476	122.249	20.954	1.00	0.00	H
ATOM	700	N	TYR	A	152	26.702	122.686	19.724	1.00	0.00	N
ATOM	701	H	TYR	A	152	27.292	122.137	19.103	1.00	0.00	H
ATOM	702	CA	TYR	A	152	25.324	122.236	19.894	1.00	0.00	C
ATOM	703	HA	TYR	A	152	25.060	122.368	20.941	1.00	0.00	H
ATOM	704	C	TYR	A	152	25.192	120.738	19.586	1.00	0.00	C
ATOM	705	O	TYR	A	152	26.056	120.155	18.930	1.00	0.00	O
ATOM	706	CB	TYR	A	152	24.361	123.093	19.054	1.00	0.00	C
ATOM	707	1HB	TYR	A	152	23.339	122.851	19.344	1.00	0.00	H
ATOM	708	2HB	TYR	A	152	24.514	124.143	19.307	1.00	0.00	H
ATOM	709	CG	TYR	A	152	24.461	122.929	17.550	1.00	0.00	C
ATOM	710	CD1	TYR	A	152	23.704	121.931	16.901	1.00	0.00	C
ATOM	711	HD1	TYR	A	152	23.087	121.254	17.477	1.00	0.00	H
ATOM	712	CD2	TYR	A	152	25.257	123.811	16.794	1.00	0.00	C
ATOM	713	HD2	TYR	A	152	25.838	124.577	17.287	1.00	0.00	H
ATOM	714	CE1	TYR	A	152	23.752	121.805	15.500	1.00	0.00	C
ATOM	715	HE1	TYR	A	152	23.192	121.024	15.006	1.00	0.00	H
ATOM	716	CE2	TYR	A	152	25.286	123.703	15.390	1.00	0.00	C

ATOM	717	HE2	TYR	A	152	25.881	124.380	14.793	1.00	0.00	H
ATOM	718	CZ	TYR	A	152	24.545	122.692	14.742	1.00	0.00	C
ATOM	719	OH	TYR	A	152	24.630	122.563	13.394	1.00	0.00	O
ATOM	720	HH	TYR	A	152	24.043	121.891	13.037	1.00	0.00	H
ATOM	721	N	VAL	A	153	24.100	120.130	20.055	1.00	0.00	N
ATOM	722	H	VAL	A	153	23.444	120.695	20.586	1.00	0.00	H
ATOM	723	CA	VAL	A	153	23.712	118.727	19.798	1.00	0.00	C
ATOM	724	HA	VAL	A	153	24.210	118.389	18.890	1.00	0.00	H
ATOM	725	C	VAL	A	153	22.201	118.636	19.540	1.00	0.00	C
ATOM	726	O	VAL	A	153	21.486	119.605	19.810	1.00	0.00	O
ATOM	727	CB	VAL	A	153	24.128	117.785	20.953	1.00	0.00	C
ATOM	728	HB	VAL	A	153	23.826	116.775	20.686	1.00	0.00	H
ATOM	729	CG1	VAL	A	153	25.641	117.752	21.190	1.00	0.00	C
ATOM	730	1HG1	VAL	A	153	26.004	118.724	21.523	1.00	0.00	H
ATOM	731	2HG1	VAL	A	153	26.132	117.481	20.260	1.00	0.00	H
ATOM	732	3HG1	VAL	A	153	25.883	116.997	21.938	1.00	0.00	H
ATOM	733	CG2	VAL	A	153	23.464	118.131	22.290	1.00	0.00	C
ATOM	734	1HG2	VAL	A	153	23.745	119.137	22.601	1.00	0.00	H
ATOM	735	2HG2	VAL	A	153	23.778	117.421	23.052	1.00	0.00	H
ATOM	736	3HG2	VAL	A	153	22.383	118.060	22.189	1.00	0.00	H
ATOM	737	N	GLU	A	154	21.690	117.508	19.032	1.00	0.00	N
ATOM	738	H	GLU	A	154	22.311	116.738	18.814	1.00	0.00	H
ATOM	739	CA	GLU	A	154	20.270	117.374	18.646	1.00	0.00	C
ATOM	740	HA	GLU	A	154	19.686	118.031	19.288	1.00	0.00	H
ATOM	741	C	GLU	A	154	19.648	115.977	18.831	1.00	0.00	C
ATOM	742	O	GLU	A	154	20.353	114.972	18.946	1.00	0.00	O
ATOM	743	CB	GLU	A	154	20.078	117.868	17.193	1.00	0.00	C
ATOM	744	1HB	GLU	A	154	19.016	117.860	16.945	1.00	0.00	H
ATOM	745	2HB	GLU	A	154	20.399	118.908	17.154	1.00	0.00	H
ATOM	746	CG	GLU	A	154	20.849	117.114	16.092	1.00	0.00	C
ATOM	747	1HG	GLU	A	154	20.710	117.655	15.154	1.00	0.00	H
ATOM	748	2HG	GLU	A	154	21.917	117.145	16.325	1.00	0.00	H
ATOM	749	CD	GLU	A	154	20.398	115.660	15.886	1.00	0.00	C
ATOM	750	OE1	GLU	A	154	21.287	114.779	15.875	1.00	0.00	O
ATOM	751	OE2	GLU	A	154	19.175	115.416	15.761	1.00	0.00	O
ATOM	752	N	PHE	A	155	18.309	115.922	18.803	1.00	0.00	N
ATOM	753	H	PHE	A	155	17.801	116.800	18.749	1.00	0.00	H
ATOM	754	CA	PHE	A	155	17.572	114.720	18.409	1.00	0.00	C
ATOM	755	HA	PHE	A	155	18.198	114.179	17.696	1.00	0.00	H
ATOM	756	C	PHE	A	155	16.243	115.050	17.711	1.00	0.00	C
ATOM	757	O	PHE	A	155	15.503	115.959	18.104	1.00	0.00	O
ATOM	758	CB	PHE	A	155	17.316	113.804	19.614	1.00	0.00	C
ATOM	759	1HB	PHE	A	155	18.165	113.858	20.293	1.00	0.00	H
ATOM	760	2HB	PHE	A	155	16.446	114.161	20.166	1.00	0.00	H
ATOM	761	CG	PHE	A	155	17.124	112.351	19.212	1.00	0.00	C
ATOM	762	CD1	PHE	A	155	18.236	111.580	18.833	1.00	0.00	C
ATOM	763	HD1	PHE	A	155	19.214	112.033	18.813	1.00	0.00	H
ATOM	764	CD2	PHE	A	155	15.842	111.774	19.176	1.00	0.00	C
ATOM	765	HD2	PHE	A	155	14.984	112.366	19.444	1.00	0.00	H
ATOM	766	CE1	PHE	A	155	18.079	110.235	18.456	1.00	0.00	C
ATOM	767	HE1	PHE	A	155	18.940	109.650	18.161	1.00	0.00	H
ATOM	768	CE2	PHE	A	155	15.679	110.427	18.801	1.00	0.00	C
ATOM	769	HE2	PHE	A	155	14.695	109.981	18.786	1.00	0.00	H
ATOM	770	CZ	PHE	A	155	16.799	109.656	18.446	1.00	0.00	C
ATOM	771	HZ	PHE	A	155	16.677	108.623	18.148	1.00	0.00	H
ATOM	772	N	VAL	A	156	15.898	114.250	16.699	1.00	0.00	N
ATOM	773	H	VAL	A	156	16.598	113.592	16.384	1.00	0.00	H
ATOM	774	CA	VAL	A	156	14.678	114.404	15.887	1.00	0.00	C
ATOM	775	HA	VAL	A	156	14.730	115.376	15.397	1.00	0.00	H
ATOM	776	C	VAL	A	156	13.392	114.388	16.727	1.00	0.00	C
ATOM	777	O	VAL	A	156	12.543	115.255	16.540	1.00	0.00	O
ATOM	778	CB	VAL	A	156	14.625	113.328	14.780	1.00	0.00	C
ATOM	779	HB	VAL	A	156	14.561	112.343	15.245	1.00	0.00	H
ATOM	780	CG1	VAL	A	156	13.410	113.511	13.860	1.00	0.00	C
ATOM	781	1HG1	VAL	A	156	12.483	113.390	14.419	1.00	0.00	H
ATOM	782	2HG1	VAL	A	156	13.429	112.759	13.070	1.00	0.00	H
ATOM	783	3HG1	VAL	A	156	13.431	114.503	13.406	1.00	0.00	H
ATOM	784	CG2	VAL	A	156	15.879	113.366	13.895	1.00	0.00	C
ATOM	785	1HG2	VAL	A	156	15.996	114.354	13.447	1.00	0.00	H
ATOM	786	2HG2	VAL	A	156	15.799	112.623	13.100	1.00	0.00	H
ATOM	787	3HG2	VAL	A	156	16.774	113.138	14.475	1.00	0.00	H
ATOM	788	N	GLU	A	157	13.243	113.454	17.671	1.00	0.00	N
ATOM	789	H	GLU	A	157	14.002	112.806	17.806	1.00	0.00	H
ATOM	790	CA	GLU	A	157	12.028	113.292	18.496	1.00	0.00	C
ATOM	791	HA	GLU	A	157	11.168	113.342	17.824	1.00	0.00	H
ATOM	792	C	GLU	A	157	11.850	114.416	19.551	1.00	0.00	C
ATOM	793	O	GLU	A	157	12.819	114.963	20.083	1.00	0.00	O

ATOM	794	CB	GLU	A	157	12.040	111.890	19.147	1.00	0.00	C
ATOM	795	1HB	GLU	A	157	12.714	111.242	18.585	1.00	0.00	H
ATOM	796	2HB	GLU	A	157	12.425	111.961	20.163	1.00	0.00	H
ATOM	797	CG	GLU	A	157	10.674	111.185	19.170	1.00	0.00	C
ATOM	798	1HG	GLU	A	157	10.351	111.010	18.141	1.00	0.00	H
ATOM	799	2HG	GLU	A	157	10.789	110.212	19.654	1.00	0.00	H
ATOM	800	CD	GLU	A	157	9.626	112.010	19.915	1.00	0.00	C
ATOM	801	OE1	GLU	A	157	8.845	112.703	19.227	1.00	0.00	O
ATOM	802	OE2	GLU	A	157	9.723	112.106	21.157	1.00	0.00	O
ATOM	803	N	ILE	A	158	10.600	114.779	19.848	1.00	0.00	N
ATOM	804	H	ILE	A	158	9.846	114.206	19.463	1.00	0.00	H
ATOM	805	CA	ILE	A	158	10.190	115.873	20.734	1.00	0.00	C
ATOM	806	HA	ILE	A	158	10.778	116.754	20.493	1.00	0.00	H
ATOM	807	C	ILE	A	158	10.461	115.568	22.216	1.00	0.00	C
ATOM	808	O	ILE	A	158	11.036	116.422	22.894	1.00	0.00	O
ATOM	809	CB	ILE	A	158	8.700	116.219	20.469	1.00	0.00	C
ATOM	810	HB	ILE	A	158	8.125	115.292	20.417	1.00	0.00	H
ATOM	811	CG1	ILE	A	158	8.489	117.012	19.153	1.00	0.00	C
ATOM	812	1HG1	ILE	A	158	7.431	117.267	19.075	1.00	0.00	H
ATOM	813	2HG1	ILE	A	158	9.051	117.946	19.203	1.00	0.00	H
ATOM	814	CG2	ILE	A	158	8.091	117.080	21.595	1.00	0.00	C
ATOM	815	1HG2	ILE	A	158	8.049	116.513	22.526	1.00	0.00	H
ATOM	816	2HG2	ILE	A	158	7.069	117.364	21.342	1.00	0.00	H
ATOM	817	3HG2	ILE	A	158	8.690	117.979	21.750	1.00	0.00	H
ATOM	818	CD1	ILE	A	158	8.864	116.293	17.851	1.00	0.00	C
ATOM	819	1HD1	ILE	A	158	9.947	116.214	17.755	1.00	0.00	H
ATOM	820	2HD1	ILE	A	158	8.491	116.867	17.003	1.00	0.00	H
ATOM	821	3HD1	ILE	A	158	8.417	115.298	17.831	1.00	0.00	H
ATOM	822	N	ASP	A	159	10.091	114.396	22.745	1.00	0.00	N
ATOM	823	H	ASP	A	159	9.711	113.657	22.146	1.00	0.00	H
ATOM	824	CA	ASP	A	159	10.352	114.098	24.163	1.00	0.00	C
ATOM	825	HA	ASP	A	159	10.107	114.995	24.727	1.00	0.00	H
ATOM	826	C	ASP	A	159	11.835	113.785	24.411	1.00	0.00	C
ATOM	827	O	ASP	A	159	12.382	114.116	25.463	1.00	0.00	O
ATOM	828	CB	ASP	A	159	9.453	112.980	24.709	1.00	0.00	C
ATOM	829	1HB	ASP	A	159	8.425	113.157	24.387	1.00	0.00	H
ATOM	830	2HB	ASP	A	159	9.781	112.017	24.315	1.00	0.00	H
ATOM	831	CG	ASP	A	159	9.488	112.975	26.246	1.00	0.00	C
ATOM	832	OD1	ASP	A	159	9.855	111.938	26.841	1.00	0.00	O
ATOM	833	OD2	ASP	A	159	9.160	114.032	26.836	1.00	0.00	O
ATOM	834	N	ALA	A	160	12.532	113.240	23.410	1.00	0.00	N
ATOM	835	H	ALA	A	160	12.028	112.980	22.573	1.00	0.00	H
ATOM	836	CA	ALA	A	160	13.983	113.073	23.457	1.00	0.00	C
ATOM	837	HA	ALA	A	160	14.233	112.381	24.261	1.00	0.00	H
ATOM	838	C	ALA	A	160	14.707	114.399	23.745	1.00	0.00	C
ATOM	839	O	ALA	A	160	15.439	114.491	24.733	1.00	0.00	O
ATOM	840	CB	ALA	A	160	14.450	112.475	22.136	1.00	0.00	C
ATOM	841	1HB	ALA	A	160	15.538	112.419	22.138	1.00	0.00	H
ATOM	842	2HB	ALA	A	160	14.138	113.121	21.319	1.00	0.00	H
ATOM	843	3HB	ALA	A	160	14.027	111.479	22.004	1.00	0.00	H
ATOM	844	N	VAL	A	161	14.456	115.448	22.947	1.00	0.00	N
ATOM	845	H	VAL	A	161	13.855	115.319	22.139	1.00	0.00	H
ATOM	846	CA	VAL	A	161	15.033	116.776	23.217	1.00	0.00	C
ATOM	847	HA	VAL	A	161	16.098	116.618	23.374	1.00	0.00	H
ATOM	848	C	VAL	A	161	14.498	117.390	24.520	1.00	0.00	C
ATOM	849	O	VAL	A	161	15.265	118.035	25.231	1.00	0.00	O
ATOM	850	CB	VAL	A	161	14.929	117.724	22.003	1.00	0.00	C
ATOM	851	HB	VAL	A	161	15.298	117.187	21.129	1.00	0.00	H
ATOM	852	CG1	VAL	A	161	13.502	118.183	21.694	1.00	0.00	C
ATOM	853	1HG1	VAL	A	161	13.074	118.715	22.543	1.00	0.00	H
ATOM	854	2HG1	VAL	A	161	12.896	117.313	21.461	1.00	0.00	H
ATOM	855	3HG1	VAL	A	161	13.521	118.850	20.834	1.00	0.00	H
ATOM	856	CG2	VAL	A	161	15.817	118.961	22.181	1.00	0.00	C
ATOM	857	1HG2	VAL	A	161	15.480	119.562	23.024	1.00	0.00	H
ATOM	858	2HG2	VAL	A	161	15.783	119.572	21.279	1.00	0.00	H
ATOM	859	3HG2	VAL	A	161	16.849	118.649	22.346	1.00	0.00	H
ATOM	860	N	GLN	A	162	13.237	117.137	24.904	1.00	0.00	N
ATOM	861	H	GLN	A	162	12.637	116.611	24.277	1.00	0.00	H
ATOM	862	CA	GLN	A	162	12.675	117.569	26.197	1.00	0.00	C
ATOM	863	HA	GLN	A	162	12.785	118.650	26.259	1.00	0.00	H
ATOM	864	C	GLN	A	162	13.409	116.974	27.416	1.00	0.00	C
ATOM	865	O	GLN	A	162	13.536	117.647	28.439	1.00	0.00	O
ATOM	866	CB	GLN	A	162	11.169	117.253	26.235	1.00	0.00	C
ATOM	867	1HB	GLN	A	162	10.698	117.690	25.353	1.00	0.00	H
ATOM	868	2HB	GLN	A	162	11.031	116.176	26.212	1.00	0.00	H
ATOM	869	CG	GLN	A	162	10.463	117.792	27.488	1.00	0.00	C
ATOM	870	1HG	GLN	A	162	10.753	117.192	28.351	1.00	0.00	H

ATOM	871	2HG	GLN	A	162	10.775	118.823	27.660	1.00	0.00	H
ATOM	872	CD	GLN	A	162	8.942	117.763	27.363	1.00	0.00	C
ATOM	873	OE1	GLN	A	162	8.278	118.789	27.396	1.00	0.00	O
ATOM	874	NE2	GLN	A	162	8.314	116.618	27.228	1.00	0.00	N
ATOM	875	1HE2	GLN	A	162	7.325	116.645	27.104	1.00	0.00	H
ATOM	876	2HE2	GLN	A	162	8.813	115.719	27.160	1.00	0.00	H
ATOM	877	N	ASN	A	163	13.938	115.752	27.310	1.00	0.00	N
ATOM	878	H	ASN	A	163	13.735	115.219	26.470	1.00	0.00	H
ATOM	879	CA	ASN	A	163	14.811	115.159	28.327	1.00	0.00	C
ATOM	880	HA	ASN	A	163	14.472	115.462	29.320	1.00	0.00	H
ATOM	881	C	ASN	A	163	16.266	115.652	28.182	1.00	0.00	C
ATOM	882	O	ASN	A	163	16.887	116.042	29.172	1.00	0.00	O
ATOM	883	CB	ASN	A	163	14.715	113.625	28.238	1.00	0.00	C
ATOM	884	1HB	ASN	A	163	14.819	113.299	27.203	1.00	0.00	H
ATOM	885	2HB	ASN	A	163	15.527	113.182	28.813	1.00	0.00	H
ATOM	886	CG	ASN	A	163	13.414	113.087	28.815	1.00	0.00	C
ATOM	887	OD1	ASN	A	163	13.319	112.801	29.999	1.00	0.00	O
ATOM	888	ND2	ASN	A	163	12.401	112.930	27.999	1.00	0.00	N
ATOM	889	1HD2	ASN	A	163	11.521	112.542	28.313	1.00	0.00	H
ATOM	890	2HD2	ASN	A	163	12.449	113.245	27.038	1.00	0.00	H
ATOM	891	N	ALA	A	164	16.809	115.702	26.960	1.00	0.00	N
ATOM	892	H	ALA	A	164	16.266	115.360	26.172	1.00	0.00	H
ATOM	893	CA	ALA	A	164	18.180	116.155	26.702	1.00	0.00	C
ATOM	894	HA	ALA	A	164	18.858	115.530	27.287	1.00	0.00	H
ATOM	895	C	ALA	A	164	18.433	117.617	27.127	1.00	0.00	C
ATOM	896	O	ALA	A	164	19.526	117.936	27.599	1.00	0.00	O
ATOM	897	CB	ALA	A	164	18.510	115.942	25.220	1.00	0.00	C
ATOM	898	1HB	ALA	A	164	19.565	116.157	25.046	1.00	0.00	H
ATOM	899	2HB	ALA	A	164	17.909	116.609	24.604	1.00	0.00	H
ATOM	900	3HB	ALA	A	164	18.312	114.907	24.935	1.00	0.00	H
ATOM	901	N	LEU	A	165	17.429	118.500	27.034	1.00	0.00	N
ATOM	902	H	LEU	A	165	16.576	118.200	26.569	1.00	0.00	H
ATOM	903	CA	LEU	A	165	17.497	119.885	27.524	1.00	0.00	C
ATOM	904	HA	LEU	A	165	18.478	120.268	27.242	1.00	0.00	H
ATOM	905	C	LEU	A	165	17.421	120.019	29.059	1.00	0.00	C
ATOM	906	O	LEU	A	165	17.648	121.114	29.570	1.00	0.00	O
ATOM	907	CB	LEU	A	165	16.468	120.771	26.783	1.00	0.00	C
ATOM	908	1HB	LEU	A	165	16.750	121.815	26.922	1.00	0.00	H
ATOM	909	2HB	LEU	A	165	16.577	120.556	25.719	1.00	0.00	H
ATOM	910	CG	LEU	A	165	14.976	120.617	27.144	1.00	0.00	C
ATOM	911	HG	LEU	A	165	14.746	119.567	27.282	1.00	0.00	H
ATOM	912	CD1	LEU	A	165	14.547	121.390	28.397	1.00	0.00	C
ATOM	913	1HD1	LEU	A	165	15.023	120.978	29.282	1.00	0.00	H
ATOM	914	2HD1	LEU	A	165	13.470	121.297	28.533	1.00	0.00	H
ATOM	915	3HD1	LEU	A	165	14.816	122.441	28.301	1.00	0.00	H
ATOM	916	CD2	LEU	A	165	14.121	121.166	25.997	1.00	0.00	C
ATOM	917	1HD2	LEU	A	165	14.348	122.218	25.827	1.00	0.00	H
ATOM	918	2HD2	LEU	A	165	13.063	121.054	26.232	1.00	0.00	H
ATOM	919	3HD2	LEU	A	165	14.329	120.604	25.086	1.00	0.00	H
ATOM	920	N	LEU	A	166	17.163	118.930	29.796	1.00	0.00	N
ATOM	921	H	LEU	A	166	17.023	118.056	29.301	1.00	0.00	H
ATOM	922	CA	LEU	A	166	16.778	118.950	31.216	1.00	0.00	C
ATOM	923	HA	LEU	A	166	16.775	119.983	31.565	1.00	0.00	H
ATOM	924	C	LEU	A	166	17.731	118.171	32.150	1.00	0.00	C
ATOM	925	O	LEU	A	166	17.636	118.306	33.369	1.00	0.00	O
ATOM	926	CB	LEU	A	166	15.331	118.408	31.268	1.00	0.00	C
ATOM	927	1HB	LEU	A	166	14.726	118.987	30.569	1.00	0.00	H
ATOM	928	2HB	LEU	A	166	15.338	117.379	30.907	1.00	0.00	H
ATOM	929	CG	LEU	A	166	14.617	118.423	32.632	1.00	0.00	C
ATOM	930	HG	LEU	A	166	15.137	117.770	33.332	1.00	0.00	H
ATOM	931	CD1	LEU	A	166	14.522	119.830	33.228	1.00	0.00	C
ATOM	932	1HD1	LEU	A	166	15.522	120.194	33.461	1.00	0.00	H
ATOM	933	2HD1	LEU	A	166	13.944	119.800	34.150	1.00	0.00	H
ATOM	934	3HD1	LEU	A	166	14.047	120.504	32.516	1.00	0.00	H
ATOM	935	CD2	LEU	A	166	13.195	117.885	32.462	1.00	0.00	C
ATOM	936	1HD2	LEU	A	166	12.689	117.856	33.425	1.00	0.00	H
ATOM	937	2HD2	LEU	A	166	13.237	116.873	32.055	1.00	0.00	H
ATOM	938	3HD2	LEU	A	166	12.636	118.515	31.769	1.00	0.00	H
ATOM	939	N	LEU	A	167	18.656	117.371	31.608	1.00	0.00	N
ATOM	940	H	LEU	A	167	18.662	117.308	30.599	1.00	0.00	H
ATOM	941	CA	LEU	A	167	19.407	116.340	32.349	1.00	0.00	C
ATOM	942	HA	LEU	A	167	19.267	116.489	33.420	1.00	0.00	H
ATOM	943	C	LEU	A	167	20.932	116.425	32.106	1.00	0.00	C
ATOM	944	O	LEU	A	167	21.593	115.410	31.899	1.00	0.00	O
ATOM	945	CB	LEU	A	167	18.832	114.954	31.971	1.00	0.00	C
ATOM	946	1HB	LEU	A	167	18.993	114.803	30.902	1.00	0.00	H
ATOM	947	2HB	LEU	A	167	19.398	114.187	32.502	1.00	0.00	H

ATOM	948	CG	LEU	A	167	17.336	114.724	32.271	1.00	0.00	C
ATOM	949	HG	LEU	A	167	16.734	115.485	31.780	1.00	0.00	H
ATOM	950	CD1	LEU	A	167	16.912	113.359	31.730	1.00	0.00	C
ATOM	951	1HD1	LEU	A	167	15.841	113.215	31.875	1.00	0.00	H
ATOM	952	2HD1	LEU	A	167	17.461	112.561	32.229	1.00	0.00	H
ATOM	953	3HD1	LEU	A	167	17.122	113.309	30.662	1.00	0.00	H
ATOM	954	CD2	LEU	A	167	17.031	114.756	33.771	1.00	0.00	C
ATOM	955	1HD2	LEU	A	167	15.975	114.539	33.929	1.00	0.00	H
ATOM	956	2HD2	LEU	A	167	17.243	115.747	34.170	1.00	0.00	H
ATOM	957	3HD2	LEU	A	167	17.638	114.014	34.290	1.00	0.00	H
ATOM	958	N	ASN	A	168	21.489	117.641	32.056	1.00	0.00	N
ATOM	959	H	ASN	A	168	20.899	118.432	32.278	1.00	0.00	H
ATOM	960	CA	ASN	A	168	22.696	117.924	31.265	1.00	0.00	C
ATOM	961	HA	ASN	A	168	23.164	116.981	30.974	1.00	0.00	H
ATOM	962	C	ASN	A	168	23.820	118.720	31.973	1.00	0.00	C
ATOM	963	O	ASN	A	168	24.937	118.218	32.098	1.00	0.00	O
ATOM	964	CB	ASN	A	168	22.217	118.610	29.966	1.00	0.00	C
ATOM	965	1HB	ASN	A	168	23.071	118.975	29.401	1.00	0.00	H
ATOM	966	2HB	ASN	A	168	21.722	117.857	29.351	1.00	0.00	H
ATOM	967	CG	ASN	A	168	21.242	119.765	30.171	1.00	0.00	C
ATOM	968	OD1	ASN	A	168	21.172	120.406	31.205	1.00	0.00	O
ATOM	969	ND2	ASN	A	168	20.397	120.033	29.219	1.00	0.00	N
ATOM	970	1HD2	ASN	A	168	19.701	120.737	29.423	1.00	0.00	H
ATOM	971	2HD2	ASN	A	168	20.315	119.398	28.429	1.00	0.00	H
ATOM	972	N	GLU	A	169	23.594	119.964	32.403	1.00	0.00	N
ATOM	973	H	GLU	A	169	22.661	120.346	32.273	1.00	0.00	H
ATOM	974	CA	GLU	A	169	24.675	120.905	32.731	1.00	0.00	C
ATOM	975	HA	GLU	A	169	25.493	120.679	32.047	1.00	0.00	H
ATOM	976	C	GLU	A	169	25.287	120.723	34.132	1.00	0.00	C
ATOM	977	O	GLU	A	169	25.092	121.522	35.046	1.00	0.00	O
ATOM	978	CB	GLU	A	169	24.299	122.360	32.409	1.00	0.00	C
ATOM	979	1HB	GLU	A	169	25.151	122.980	32.694	1.00	0.00	H
ATOM	980	2HB	GLU	A	169	24.189	122.454	31.330	1.00	0.00	H
ATOM	981	CG	GLU	A	169	23.026	122.926	33.060	1.00	0.00	C
ATOM	982	1HG	GLU	A	169	22.156	122.655	32.460	1.00	0.00	H
ATOM	983	2HG	GLU	A	169	22.896	122.507	34.059	1.00	0.00	H
ATOM	984	CD	GLU	A	169	23.147	124.451	33.151	1.00	0.00	C
ATOM	985	OE1	GLU	A	169	23.511	125.097	32.138	1.00	0.00	O
ATOM	986	OE2	GLU	A	169	23.127	125.013	34.270	1.00	0.00	O
ATOM	987	N	THR	A	170	26.066	119.657	34.319	1.00	0.00	N
ATOM	988	H	THR	A	170	26.099	118.972	33.570	1.00	0.00	H
ATOM	989	CA	THR	A	170	26.842	119.432	35.556	1.00	0.00	C
ATOM	990	HA	THR	A	170	27.043	120.394	36.027	1.00	0.00	H
ATOM	991	C	THR	A	170	28.220	118.810	35.316	1.00	0.00	C
ATOM	992	O	THR	A	170	29.150	119.166	36.035	1.00	0.00	O
ATOM	993	CB	THR	A	170	26.013	118.608	36.556	1.00	0.00	C
ATOM	994	HB	THR	A	170	25.668	117.694	36.070	1.00	0.00	H
ATOM	995	OG1	THR	A	170	24.897	119.371	36.956	1.00	0.00	O
ATOM	996	HG1	THR	A	170	24.810	120.109	36.329	1.00	0.00	H
ATOM	997	CG2	THR	A	170	26.744	118.238	37.847	1.00	0.00	C
ATOM	998	1HG2	THR	A	170	27.549	117.534	37.633	1.00	0.00	H
ATOM	999	2HG2	THR	A	170	26.045	117.767	38.537	1.00	0.00	H
ATOM	1000	3HG2	THR	A	170	27.160	119.135	38.307	1.00	0.00	H
ATOM	1001	N	GLU	A	171	28.399	117.969	34.292	1.00	0.00	N
ATOM	1002	H	GLU	A	171	27.622	117.714	33.699	1.00	0.00	H
ATOM	1003	CA	GLU	A	171	29.703	117.376	33.954	1.00	0.00	C
ATOM	1004	HA	GLU	A	171	30.497	118.048	34.281	1.00	0.00	H
ATOM	1005	C	GLU	A	171	29.863	117.185	32.441	1.00	0.00	C
ATOM	1006	O	GLU	A	171	29.003	116.592	31.784	1.00	0.00	O
ATOM	1007	CB	GLU	A	171	29.884	116.019	34.672	1.00	0.00	C
ATOM	1008	1HB	GLU	A	171	28.954	115.741	35.172	1.00	0.00	H
ATOM	1009	2HB	GLU	A	171	30.101	115.232	33.949	1.00	0.00	H
ATOM	1010	CG	GLU	A	171	31.005	116.039	35.723	1.00	0.00	C
ATOM	1011	1HG	GLU	A	171	30.775	116.810	36.461	1.00	0.00	H
ATOM	1012	2HG	GLU	A	171	30.994	115.077	36.242	1.00	0.00	H
ATOM	1013	CD	GLU	A	171	32.417	116.274	35.157	1.00	0.00	C
ATOM	1014	OE1	GLU	A	171	32.607	116.235	33.917	1.00	0.00	O
ATOM	1015	OE2	GLU	A	171	33.329	116.489	35.985	1.00	0.00	O
ATOM	1016	N	LEU	A	172	30.990	117.662	31.915	1.00	0.00	N
ATOM	1017	H	LEU	A	172	31.625	118.142	32.548	1.00	0.00	H
ATOM	1018	CA	LEU	A	172	31.498	117.424	30.570	1.00	0.00	C
ATOM	1019	HA	LEU	A	172	31.143	116.459	30.224	1.00	0.00	H
ATOM	1020	C	LEU	A	172	33.032	117.417	30.631	1.00	0.00	C
ATOM	1021	O	LEU	A	172	33.627	118.394	31.091	1.00	0.00	O
ATOM	1022	CB	LEU	A	172	30.979	118.528	29.624	1.00	0.00	C
ATOM	1023	1HB	LEU	A	172	30.045	118.917	30.027	1.00	0.00	H
ATOM	1024	2HB	LEU	A	172	31.690	119.354	29.614	1.00	0.00	H

ATOM	1025	CG	LEU	A	172	30.711	118.089	28.172	1.00	0.00	C
ATOM	1026	HG	LEU	A	172	30.643	118.983	27.552	1.00	0.00	H
ATOM	1027	CD1	LEU	A	172	31.807	117.198	27.591	1.00	0.00	C
ATOM	1028	1HD1	LEU	A	172	31.814	116.221	28.069	1.00	0.00	H
ATOM	1029	2HD1	LEU	A	172	32.773	117.681	27.717	1.00	0.00	H
ATOM	1030	3HD1	LEU	A	172	31.645	117.047	26.528	1.00	0.00	H
ATOM	1031	CD2	LEU	A	172	29.368	116.369	28.102	1.00	0.00	C
ATOM	1032	1HD2	LEU	A	172	29.171	117.017	27.092	1.00	0.00	H
ATOM	1033	2HD2	LEU	A	172	28.569	118.047	28.393	1.00	0.00	H
ATOM	1034	3HD2	LEU	A	172	29.367	116.531	28.791	1.00	0.00	H
ATOM	1035	N	HIS	A	173	33.687	116.350	30.157	1.00	0.00	N
ATOM	1036	H	HIS	A	173	33.148	115.556	29.828	1.00	0.00	H
ATOM	1037	CA	HIS	A	173	35.156	116.274	30.050	1.00	0.00	C
ATOM	1038	HA	HIS	A	173	35.401	115.265	29.713	1.00	0.00	H
ATOM	1039	C	HIS	A	173	35.886	116.461	31.413	1.00	0.00	C
ATOM	1040	O	HIS	A	173	37.074	116.788	31.459	1.00	0.00	O
ATOM	1041	CB	HIS	A	173	35.580	117.239	28.911	1.00	0.00	C
ATOM	1042	1HB	HIS	A	173	35.030	116.951	28.016	1.00	0.00	H
ATOM	1043	2HB	HIS	A	173	35.280	118.255	29.165	1.00	0.00	H
ATOM	1044	CG	HIS	A	173	37.039	117.279	28.528	1.00	0.00	C
ATOM	1045	ND1	HIS	A	173	37.749	116.291	27.896	1.00	0.00	N
ATOM	1046	HD1	HIS	A	173	37.328	115.440	27.495	1.00	0.00	H
ATOM	1047	CD2	HIS	A	173	37.863	118.364	28.600	1.00	0.00	C
ATOM	1048	HD2	HIS	A	173	37.581	119.333	28.983	1.00	0.00	H
ATOM	1049	CE1	HIS	A	173	38.977	116.756	27.622	1.00	0.00	C
ATOM	1050	HE1	HIS	A	173	39.720	116.221	27.044	1.00	0.00	H
ATOM	1051	NE2	HIS	A	173	39.126	118.005	28.104	1.00	0.00	N
ATOM	1052	N	GLY	A	174	35.208	116.281	32.557	1.00	0.00	N
ATOM	1053	H	GLY	A	174	34.216	116.063	32.520	1.00	0.00	H
ATOM	1054	CA	GLY	A	174	35.767	116.498	33.900	1.00	0.00	C
ATOM	1055	1HA	GLY	A	174	35.257	115.832	34.594	1.00	0.00	H
ATOM	1056	2HA	GLY	A	174	36.827	116.248	33.911	1.00	0.00	H
ATOM	1057	C	GLY	A	174	35.600	117.934	34.420	1.00	0.00	C
ATOM	1058	O	GLY	A	174	36.419	118.394	35.223	1.00	0.00	O
ATOM	1059	N	ARG	A	175	34.640	118.695	33.876	1.00	0.00	N
ATOM	1060	H	ARG	A	175	33.994	118.225	33.247	1.00	0.00	H
ATOM	1061	CA	ARG	A	175	34.407	120.125	34.139	1.00	0.00	C
ATOM	1062	HA	ARG	A	175	34.801	120.369	35.125	1.00	0.00	H
ATOM	1063	C	ARG	A	175	32.905	120.454	34.137	1.00	0.00	C
ATOM	1064	O	ARG	A	175	32.103	119.799	33.479	1.00	0.00	O
ATOM	1065	CB	ARG	A	175	35.107	120.992	33.066	1.00	0.00	C
ATOM	1066	1HB	ARG	A	175	34.768	120.685	32.075	1.00	0.00	H
ATOM	1067	2HB	ARG	A	175	34.766	122.019	33.205	1.00	0.00	H
ATOM	1068	CG	ARG	A	175	36.648	121.046	33.081	1.00	0.00	C
ATOM	1069	1HG	ARG	A	175	36.929	121.950	32.539	1.00	0.00	H
ATOM	1070	2HG	ARG	A	175	37.006	121.155	34.106	1.00	0.00	H
ATOM	1071	CD	ARG	A	175	37.358	119.854	32.414	1.00	0.00	C
ATOM	1072	1HD	ARG	A	175	37.584	119.097	33.163	1.00	0.00	H
ATOM	1073	2HD	ARG	A	175	36.690	119.419	31.668	1.00	0.00	H
ATOM	1074	NE	ARG	A	175	38.609	120.266	31.746	1.00	0.00	N
ATOM	1075	HE	ARG	A	175	38.725	121.266	31.573	1.00	0.00	H
ATOM	1076	CZ	ARG	A	175	39.421	119.485	31.060	1.00	0.00	C
ATOM	1077	NH1	ARG	A	175	39.388	118.188	31.136	1.00	0.00	N
ATOM	1078	1HH1	ARG	A	175	38.582	117.773	31.595	1.00	0.00	H
ATOM	1079	2HH1	ARG	A	175	39.737	117.686	30.338	1.00	0.00	H
ATOM	1080	NH2	ARG	A	175	40.243	119.982	30.187	1.00	0.00	N
ATOM	1081	1HH2	ARG	A	175	40.086	120.952	29.899	1.00	0.00	H
ATOM	1082	2HH2	ARG	A	175	40.541	119.359	29.457	1.00	0.00	H
ATOM	1083	N	GLN	A	176	32.528	121.533	34.824	1.00	0.00	N
ATOM	1084	H	GLN	A	176	33.240	122.044	35.313	1.00	0.00	H
ATOM	1085	CA	GLN	A	176	31.196	122.147	34.698	1.00	0.00	C
ATOM	1086	HA	GLN	A	176	30.454	121.350	34.619	1.00	0.00	H
ATOM	1087	C	GLN	A	176	31.087	123.023	33.431	1.00	0.00	C
ATOM	1088	O	GLN	A	176	32.077	123.610	32.995	1.00	0.00	O
ATOM	1089	CB	GLN	A	176	30.871	122.970	35.959	1.00	0.00	C
ATOM	1090	1HB	GLN	A	176	29.882	123.414	35.831	1.00	0.00	H
ATOM	1091	2HB	GLN	A	176	30.823	122.298	36.817	1.00	0.00	H
ATOM	1092	CG	GLN	A	176	31.883	124.090	36.265	1.00	0.00	C
ATOM	1093	1HG	GLN	A	176	32.823	123.653	36.601	1.00	0.00	H
ATOM	1094	2HG	GLN	A	176	32.082	124.673	35.366	1.00	0.00	H
ATOM	1095	CD	GLN	A	176	31.374	125.037	37.344	1.00	0.00	C
ATOM	1096	OE1	GLN	A	176	31.523	124.816	38.532	1.00	0.00	O
ATOM	1097	NE2	GLN	A	176	30.759	126.140	36.975	1.00	0.00	N
ATOM	1098	1HE2	GLN	A	176	30.456	126.743	37.717	1.00	0.00	H
ATOM	1099	2HE2	GLN	A	176	30.641	126.358	36.002	1.00	0.00	H
ATOM	1100	N	LEU	A	177	29.871	123.184	32.894	1.00	0.00	N
ATOM	1101	H	LEU	A	177	29.093	122.713	33.330	1.00	0.00	H



ATOM	1102	CA	LEU	A	177	29.580	123.992	31.696	1.00	0.00	C
ATOM	1103	HA	LEU	A	177	30.278	124.830	31.670	1.00	0.00	H
ATOM	1104	C	LEU	A	177	28.167	124.626	31.729	1.00	0.00	C
ATOM	1105	O	LEU	A	177	27.580	124.769	32.807	1.00	0.00	O
ATOM	1106	CB	LEU	A	177	29.871	123.147	30.434	1.00	0.00	C
ATOM	1107	1HB	LEU	A	177	29.674	123.760	29.560	1.00	0.00	H
ATOM	1108	2HB	LEU	A	177	30.945	122.953	30.411	1.00	0.00	H
ATOM	1109	CG	LEU	A	177	29.166	121.786	30.258	1.00	0.00	C
ATOM	1110	HG	LEU	A	177	29.668	121.053	30.888	1.00	0.00	H
ATOM	1111	CD1	LEU	A	177	27.673	121.743	30.589	1.00	0.00	C
ATOM	1112	1HD1	LEU	A	177	27.129	122.436	29.948	1.00	0.00	H
ATOM	1113	2HD1	LEU	A	177	27.511	121.986	31.637	1.00	0.00	H
ATOM	1114	3HD1	LEU	A	177	27.297	120.735	30.411	1.00	0.00	H
ATOM	1115	CD2	LEU	A	177	29.306	121.380	28.791	1.00	0.00	C
ATOM	1116	1HD2	LEU	A	177	28.833	122.125	28.152	1.00	0.00	H
ATOM	1117	2HD2	LEU	A	177	28.826	120.419	28.619	1.00	0.00	H
ATOM	1118	3HD2	LEU	A	177	30.361	121.303	28.530	1.00	0.00	H
ATOM	1119	N	LYS	A	178	27.614	125.030	30.576	1.00	0.00	N
ATOM	1120	H	LYS	A	178	28.158	124.911	29.722	1.00	0.00	H
ATOM	1121	CA	LYS	A	178	26.258	125.584	30.399	1.00	0.00	C
ATOM	1122	HA	LYS	A	178	25.661	125.402	31.285	1.00	0.00	H
ATOM	1123	C	LYS	A	178	25.522	124.914	29.231	1.00	0.00	C
ATOM	1124	O	LYS	A	178	26.154	124.556	28.242	1.00	0.00	O
ATOM	1125	CB	LYS	A	178	26.364	127.097	30.130	1.00	0.00	C
ATOM	1126	1HB	LYS	A	178	27.143	127.266	29.386	1.00	0.00	H
ATOM	1127	2HB	LYS	A	178	25.429	127.445	29.694	1.00	0.00	H
ATOM	1128	CG	LYS	A	178	26.676	127.957	31.366	1.00	0.00	C
ATOM	1129	1HG	LYS	A	178	27.451	127.485	31.969	1.00	0.00	H
ATOM	1130	2HG	LYS	A	178	27.078	128.908	31.011	1.00	0.00	H
ATOM	1131	CD	LYS	A	178	25.428	128.266	32.216	1.00	0.00	C
ATOM	1132	1HD	LYS	A	178	25.296	129.350	32.236	1.00	0.00	H
ATOM	1133	2HD	LYS	A	178	24.531	127.844	31.757	1.00	0.00	H
ATOM	1134	CE	LYS	A	178	25.523	127.776	33.665	1.00	0.00	C
ATOM	1135	1HE	LYS	A	178	26.460	128.117	34.111	1.00	0.00	H
ATOM	1136	2HE	LYS	A	178	24.690	128.217	34.220	1.00	0.00	H
ATOM	1137	NZ	LYS	A	178	25.410	126.305	33.742	1.00	0.00	N
ATOM	1138	1HZ	LYS	A	178	26.225	125.806	33.396	1.00	0.00	H
ATOM	1139	2HZ	LYS	A	178	24.604	125.989	33.190	1.00	0.00	H
ATOM	1140	3HZ	LYS	A	178	25.146	125.964	34.657	1.00	0.00	H
ATOM	1141	N	VAL	A	179	24.193	124.813	29.301	1.00	0.00	N
ATOM	1142	H	VAL	A	179	23.733	125.083	30.171	1.00	0.00	H
ATOM	1143	CA	VAL	A	179	23.337	124.317	28.198	1.00	0.00	C
ATOM	1144	HA	VAL	A	179	23.892	124.395	27.266	1.00	0.00	H
ATOM	1145	C	VAL	A	179	22.088	125.201	28.043	1.00	0.00	C
ATOM	1146	O	VAL	A	179	21.671	125.884	28.979	1.00	0.00	O
ATOM	1147	CB	VAL	A	179	22.983	122.820	28.399	1.00	0.00	C
ATOM	1148	HB	VAL	A	179	22.508	122.692	29.372	1.00	0.00	H
ATOM	1149	CG1	VAL	A	179	22.041	122.254	27.326	1.00	0.00	C
ATOM	1150	1HG1	VAL	A	179	22.430	122.457	26.329	1.00	0.00	H
ATOM	1151	2HG1	VAL	A	179	21.044	122.679	27.430	1.00	0.00	H
ATOM	1152	3HG1	VAL	A	179	21.956	121.175	27.435	1.00	0.00	H
ATOM	1153	CG2	VAL	A	179	24.244	121.943	28.349	1.00	0.00	C
ATOM	1154	1HG2	VAL	A	179	24.920	122.200	29.159	1.00	0.00	H
ATOM	1155	2HG2	VAL	A	179	24.756	122.085	27.396	1.00	0.00	H
ATOM	1156	3HG2	VAL	A	179	23.980	120.893	28.454	1.00	0.00	H
ATOM	1157	N	SER	A	180	21.500	125.257	26.846	1.00	0.00	N
ATOM	1158	H	SER	A	180	21.925	124.732	26.083	1.00	0.00	H
ATOM	1159	CA	SER	A	180	20.253	125.984	26.537	1.00	0.00	C
ATOM	1160	HA	SER	A	180	19.549	125.884	27.363	1.00	0.00	H
ATOM	1161	C	SER	A	180	19.596	125.423	25.270	1.00	0.00	C
ATOM	1162	O	SER	A	180	20.269	124.791	24.467	1.00	0.00	O
ATOM	1163	CB	SER	A	180	20.569	127.469	26.318	1.00	0.00	C
ATOM	1164	1HB	SER	A	180	21.410	127.552	25.629	1.00	0.00	H
ATOM	1165	2HB	SER	A	180	19.707	127.978	25.884	1.00	0.00	H
ATOM	1166	OG	SER	A	180	20.897	128.084	27.553	1.00	0.00	O
ATOM	1167	HG	SER	A	180	21.188	127.376	28.160	1.00	0.00	H
ATOM	1168	N	ALA	A	181	18.296	125.644	25.055	1.00	0.00	N
ATOM	1169	H	ALA	A	181	17.782	126.208	25.709	1.00	0.00	H
ATOM	1170	CA	ALA	A	181	17.664	125.345	23.762	1.00	0.00	C
ATOM	1171	HA	ALA	A	181	17.930	124.335	23.453	1.00	0.00	H
ATOM	1172	C	ALA	A	181	18.151	126.311	22.660	1.00	0.00	C
ATOM	1173	O	ALA	A	181	18.543	127.438	22.971	1.00	0.00	O
ATOM	1174	CB	ALA	A	181	16.141	125.409	23.934	1.00	0.00	C
ATOM	1175	1HB	ALA	A	181	15.825	124.699	24.700	1.00	0.00	H
ATOM	1176	2HB	ALA	A	181	15.659	125.146	22.991	1.00	0.00	H
ATOM	1177	3HB	ALA	A	181	15.840	126.418	24.219	1.00	0.00	H
ATOM	1178	N	LYS	A	182	18.089	125.892	21.389	1.00	0.00	N

ATOM	1179	H	LYS	A	182	17.747	124.955	21.181	1.00	0.00	H
ATOM	1180	CA	LYS	A	182	18.415	126.721	20.216	1.00	0.00	C
ATOM	1181	HA	LYS	A	182	18.184	127.763	20.435	1.00	0.00	H
ATOM	1182	C	LYS	A	182	17.540	126.338	19.023	1.00	0.00	C
ATOM	1183	O	LYS	A	182	17.043	125.195	18.969	1.00	0.00	O
ATOM	1184	OXT	LYS	A	182	17.388	127.158	18.095	1.00	0.00	O
ATOM	1185	CB	LYS	A	182	19.923	126.596	19.912	1.00	0.00	C
ATOM	1186	1HB	LYS	A	182	20.480	126.739	20.839	1.00	0.00	H
ATOM	1187	2HB	LYS	A	182	20.134	125.595	19.530	1.00	0.00	H
ATOM	1188	CG	LYS	A	182	20.402	127.649	18.897	1.00	0.00	C
ATOM	1189	1HG	LYS	A	182	19.909	127.474	17.941	1.00	0.00	H
ATOM	1190	2HG	LYS	A	182	20.130	128.642	19.257	1.00	0.00	H
ATOM	1191	CD	LYS	A	182	21.918	127.602	18.666	1.00	0.00	C
ATOM	1192	1HD	LYS	A	182	22.445	127.848	19.589	1.00	0.00	H
ATOM	1193	2HD	LYS	A	182	22.197	126.598	18.345	1.00	0.00	H
ATOM	1194	CE	LYS	A	182	22.285	128.622	17.582	1.00	0.00	C
ATOM	1195	1HE	LYS	A	182	21.570	128.537	16.760	1.00	0.00	H
ATOM	1196	2HE	LYS	A	182	22.202	129.631	18.001	1.00	0.00	H
ATOM	1197	NZ	LYS	A	182	23.651	128.417	17.054	1.00	0.00	N
ATOM	1198	1HZ	LYS	A	182	23.746	127.533	16.560	1.00	0.00	H
ATOM	1199	2HZ	LYS	A	182	24.365	128.545	17.770	1.00	0.00	H
ATOM	1200	3HZ	LYS	A	182	23.874	129.138	16.372	1.00	0.00	H
TER	1201		LYS	A	182						
ATOM	1202	N	ASP	B	106	18.019	107.240	1.567	1.00	0.00	N
ATOM	1203	1H	ASP	B	106	17.758	107.884	0.835	1.00	0.00	H
ATOM	1204	2H	ASP	B	106	18.922	106.845	1.336	1.00	0.00	H
ATOM	1205	3H	ASP	B	106	18.124	107.791	2.416	1.00	0.00	H
ATOM	1206	CA	ASP	B	106	17.004	106.185	1.761	1.00	0.00	C
ATOM	1207	HA	ASP	B	106	16.048	106.674	1.941	1.00	0.00	H
ATOM	1208	C	ASP	B	106	17.294	105.341	3.013	1.00	0.00	C
ATOM	1209	O	ASP	B	106	16.419	105.199	3.859	1.00	0.00	O
ATOM	1210	CB	ASP	B	106	16.866	105.312	0.493	1.00	0.00	C
ATOM	1211	1HB	ASP	B	106	15.950	104.724	0.572	1.00	0.00	H
ATOM	1212	2HB	ASP	B	106	16.788	105.952	-0.387	1.00	0.00	H
ATOM	1213	CG	ASP	B	106	18.064	104.371	0.350	1.00	0.00	C
ATOM	1214	OD1	ASP	B	106	19.191	104.920	0.335	1.00	0.00	O
ATOM	1215	OD2	ASP	B	106	17.924	103.173	0.673	1.00	0.00	O
ATOM	1216	N	SER	B	107	18.488	104.735	3.080	1.00	0.00	N
ATOM	1217	H	SER	B	107	19.117	104.940	2.313	1.00	0.00	H
ATOM	1218	CA	SER	B	107	18.918	103.618	3.934	1.00	0.00	C
ATOM	1219	HA	SER	B	107	19.072	104.000	4.943	1.00	0.00	H
ATOM	1220	C	SER	B	107	20.249	103.022	3.443	1.00	0.00	C
ATOM	1221	O	SER	B	107	21.037	102.563	4.268	1.00	0.00	O
ATOM	1222	CB	SER	B	107	17.883	102.476	4.000	1.00	0.00	C
ATOM	1223	1HB	SER	B	107	18.137	101.840	4.848	1.00	0.00	H
ATOM	1224	2HB	SER	B	107	16.882	102.865	4.175	1.00	0.00	H
ATOM	1225	OG	SER	B	107	17.884	101.664	2.835	1.00	0.00	O
ATOM	1226	HG	SER	B	107	17.761	102.233	2.033	1.00	0.00	H
ATOM	1227	N	ARG	B	108	20.500	103.005	2.117	1.00	0.00	N
ATOM	1228	H	ARG	B	108	19.754	103.292	1.481	1.00	0.00	H
ATOM	1229	CA	ARG	B	108	21.806	102.680	1.507	1.00	0.00	C
ATOM	1230	HA	ARG	B	108	22.285	101.863	2.036	1.00	0.00	H
ATOM	1231	C	ARG	B	108	22.794	103.836	1.620	1.00	0.00	C
ATOM	1232	O	ARG	B	108	23.998	103.623	1.573	1.00	0.00	O
ATOM	1233	CB	ARG	B	108	21.688	102.318	0.004	1.00	0.00	C
ATOM	1234	1HB	ARG	B	108	21.630	103.247	-0.567	1.00	0.00	H
ATOM	1235	2HB	ARG	B	108	22.633	101.852	-0.281	1.00	0.00	H
ATOM	1236	CG	ARG	B	108	20.556	101.413	-0.534	1.00	0.00	C
ATOM	1237	1HG	ARG	B	108	19.718	102.049	-0.816	1.00	0.00	H
ATOM	1238	2HG	ARG	B	108	20.920	100.960	-1.458	1.00	0.00	H
ATOM	1239	CD	ARG	B	108	20.000	100.287	0.351	1.00	0.00	C
ATOM	1240	1HD	ARG	B	108	19.313	100.730	1.065	1.00	0.00	H
ATOM	1241	2HD	ARG	B	108	19.425	99.605	-0.277	1.00	0.00	H
ATOM	1242	NE	ARG	B	108	21.059	99.535	1.041	1.00	0.00	N
ATOM	1243	HE	ARG	B	108	21.744	99.049	0.470	1.00	0.00	H
ATOM	1244	CZ	ARG	B	108	21.333	99.568	2.325	1.00	0.00	C
ATOM	1245	NH1	ARG	B	108	20.462	99.931	3.223	1.00	0.00	N
ATOM	1246	1HH1	ARG	B	108	19.556	100.233	2.894	1.00	0.00	H
ATOM	1247	2HH1	ARG	B	108	20.818	100.293	4.090	1.00	0.00	H
ATOM	1248	NH2	ARG	B	108	22.539	99.309	2.717	1.00	0.00	N
ATOM	1249	1HH2	ARG	B	108	23.271	99.212	2.013	1.00	0.00	H
ATOM	1250	2HH2	ARG	B	108	22.826	99.349	3.673	1.00	0.00	H
ATOM	1251	N	SER	B	109	22.264	105.047	1.755	1.00	0.00	N
ATOM	1252	H	SER	B	109	21.264	105.093	1.833	1.00	0.00	H
ATOM	1253	CA	SER	B	109	22.942	106.315	1.503	1.00	0.00	C
ATOM	1254	HA	SER	B	109	23.961	106.111	1.183	1.00	0.00	H
ATOM	1255	C	SER	B	109	23.006	107.196	2.753	1.00	0.00	C

ATOM	1256	O	SER	B	109	22.095	107.190	3.585	1.00	0.00	O
ATOM	1257	CB	SER	B	109	22.222	107.041	0.355	1.00	0.00	C
ATOM	1258	1HB	SER	B	109	22.569	108.075	0.302	1.00	0.00	H
ATOM	1259	2HB	SER	B	109	22.469	106.549	-0.588	1.00	0.00	H
ATOM	1260	OG	SER	B	109	20.807	107.018	0.524	1.00	0.00	O
ATOM	1261	HG	SER	B	109	20.468	106.159	0.188	1.00	0.00	H
ATOM	1262	N	ILE	B	110	24.089	107.967	2.878	1.00	0.00	N
ATOM	1263	H	ILE	B	110	24.804	107.898	2.156	1.00	0.00	H
ATOM	1264	CA	ILE	B	110	24.382	108.835	4.028	1.00	0.00	C
ATOM	1265	HA	ILE	B	110	23.439	109.083	4.517	1.00	0.00	H
ATOM	1266	C	ILE	B	110	24.998	110.167	3.572	1.00	0.00	C
ATOM	1267	O	ILE	B	110	25.796	110.214	2.638	1.00	0.00	O
ATOM	1268	CB	ILE	B	110	25.272	108.108	5.071	1.00	0.00	C
ATOM	1269	HB	ILE	B	110	25.532	108.829	5.845	1.00	0.00	H
ATOM	1270	CG1	ILE	B	110	26.600	107.582	4.489	1.00	0.00	C
ATOM	1271	1HG1	ILE	B	110	26.398	106.869	3.688	1.00	0.00	H
ATOM	1272	2HG1	ILE	B	110	27.142	108.428	4.071	1.00	0.00	H
ATOM	1273	CG2	ILE	B	110	24.474	106.981	5.750	1.00	0.00	C
ATOM	1274	1HG2	ILE	B	110	24.989	106.648	6.647	1.00	0.00	H
ATOM	1275	2HG2	ILE	B	110	24.357	106.138	5.069	1.00	0.00	H
ATOM	1276	3HG2	ILE	B	110	23.487	107.339	6.037	1.00	0.00	H
ATOM	1277	CD1	ILE	B	110	27.522	106.906	5.515	1.00	0.00	C
ATOM	1278	1HD1	ILE	B	110	27.676	107.564	6.368	1.00	0.00	H
ATOM	1279	2HD1	ILE	B	110	28.486	106.695	5.051	1.00	0.00	H
ATOM	1280	3HD1	ILE	B	110	27.090	105.964	5.852	1.00	0.00	H
ATOM	1281	N	TYR	B	111	24.591	111.254	4.227	1.00	0.00	N
ATOM	1282	H	TYR	B	111	24.024	111.095	5.051	1.00	0.00	H
ATOM	1283	CA	TYR	B	111	24.985	112.641	3.968	1.00	0.00	C
ATOM	1284	HA	TYR	B	111	25.172	112.783	2.903	1.00	0.00	H
ATOM	1285	C	TYR	B	111	26.249	113.039	4.747	1.00	0.00	C
ATOM	1286	O	TYR	B	111	26.509	112.513	5.831	1.00	0.00	O
ATOM	1287	CB	TYR	B	111	23.816	113.542	4.403	1.00	0.00	C
ATOM	1288	1HB	TYR	B	111	22.957	113.349	3.763	1.00	0.00	H
ATOM	1289	2HB	TYR	B	111	23.525	113.275	5.420	1.00	0.00	H
ATOM	1290	CG	TYR	B	111	24.117	115.028	4.361	1.00	0.00	C
ATOM	1291	CD1	TYR	B	111	24.325	115.740	5.560	1.00	0.00	C
ATOM	1292	HD1	TYR	B	111	24.243	115.233	6.509	1.00	0.00	H
ATOM	1293	CD2	TYR	B	111	24.243	115.685	3.123	1.00	0.00	C
ATOM	1294	HD2	TYR	B	111	24.125	115.141	2.195	1.00	0.00	H
ATOM	1295	CE1	TYR	B	111	24.622	117.116	5.522	1.00	0.00	C
ATOM	1296	HE1	TYR	B	111	24.732	117.687	6.431	1.00	0.00	H
ATOM	1297	CE2	TYR	B	111	24.536	117.059	3.084	1.00	0.00	C
ATOM	1298	HE2	TYR	B	111	24.629	117.552	2.130	1.00	0.00	H
ATOM	1299	CZ	TYR	B	111	24.703	117.783	4.284	1.00	0.00	C
ATOM	1300	OH	TYR	B	111	24.907	119.126	4.251	1.00	0.00	O
ATOM	1301	HH	TYR	B	111	24.534	119.484	3.439	1.00	0.00	H
ATOM	1302	N	VAL	B	112	26.986	114.035	4.246	1.00	0.00	N
ATOM	1303	H	VAL	B	112	26.698	114.426	3.351	1.00	0.00	H
ATOM	1304	CA	VAL	B	112	28.212	114.578	4.848	1.00	0.00	C
ATOM	1305	HA	VAL	B	112	28.262	114.271	5.891	1.00	0.00	H
ATOM	1306	C	VAL	B	112	28.200	116.112	4.786	1.00	0.00	C
ATOM	1307	O	VAL	B	112	27.990	116.702	3.726	1.00	0.00	O
ATOM	1308	CB	VAL	B	112	29.461	114.040	4.123	1.00	0.00	C
ATOM	1309	HB	VAL	B	112	29.522	114.510	3.145	1.00	0.00	H
ATOM	1310	CG1	VAL	B	112	30.736	114.388	4.898	1.00	0.00	C
ATOM	1311	1HG1	VAL	B	112	30.704	113.944	5.892	1.00	0.00	H
ATOM	1312	2HG1	VAL	B	112	30.832	115.467	4.992	1.00	0.00	H
ATOM	1313	3HG1	VAL	B	112	31.607	114.011	4.360	1.00	0.00	H
ATOM	1314	CG2	VAL	B	112	29.453	112.519	3.916	1.00	0.00	C
ATOM	1315	1HG2	VAL	B	112	29.360	112.005	4.872	1.00	0.00	H
ATOM	1316	2HG2	VAL	B	112	30.375	112.216	3.423	1.00	0.00	H
ATOM	1317	3HG2	VAL	B	112	28.625	112.228	3.269	1.00	0.00	H
ATOM	1318	N	GLY	B	113	28.492	116.760	5.917	1.00	0.00	N
ATOM	1319	H	GLY	B	113	28.744	116.195	6.723	1.00	0.00	H
ATOM	1320	CA	GLY	B	113	28.500	118.218	6.090	1.00	0.00	C
ATOM	1321	1HA	GLY	B	113	28.596	118.707	5.121	1.00	0.00	H
ATOM	1322	2HA	GLY	B	113	27.551	118.527	6.529	1.00	0.00	H
ATOM	1323	C	GLY	B	113	29.645	118.694	6.996	1.00	0.00	C
ATOM	1324	O	GLY	B	113	30.453	117.893	7.463	1.00	0.00	O
ATOM	1325	N	ASN	B	114	29.746	120.009	7.243	1.00	0.00	N
ATOM	1326	H	ASN	B	114	29.010	120.614	6.906	1.00	0.00	H
ATOM	1327	CA	ASN	B	114	30.888	120.628	7.949	1.00	0.00	C
ATOM	1328	HA	ASN	B	114	30.763	121.709	7.874	1.00	0.00	H
ATOM	1329	C	ASN	B	114	32.249	120.299	7.266	1.00	0.00	C
ATOM	1330	O	ASN	B	114	33.230	119.963	7.928	1.00	0.00	O
ATOM	1331	CB	ASN	B	114	30.789	120.261	9.455	1.00	0.00	C
ATOM	1332	1HB	ASN	B	114	29.747	120.337	9.767	1.00	0.00	H

ATOM	1333	2HB	ASN	B	114	31.101	119.228	9.599	1.00	0.00	H
ATOM	1334	CG	ASN	B	114	31.596	121.135	10.407	1.00	0.00	C
ATOM	1335	OD1	ASN	B	114	31.062	121.883	11.205	1.00	0.00	O
ATOM	1336	ND2	ASN	B	114	32.903	121.054	10.402	1.00	0.00	N
ATOM	1337	1HD2	ASN	B	114	33.400	121.623	11.055	1.00	0.00	H
ATOM	1338	2HD2	ASN	B	114	33.363	120.479	9.699	1.00	0.00	H
ATOM	1339	N	VAL	B	115	32.308	120.343	5.928	1.00	0.00	N
ATOM	1340	H	VAL	B	115	31.480	120.617	5.423	1.00	0.00	H
ATOM	1341	CA	VAL	B	115	33.466	119.872	5.134	1.00	0.00	C
ATOM	1342	HA	VAL	B	115	34.040	119.180	5.750	1.00	0.00	H
ATOM	1343	C	VAL	B	115	34.403	121.021	4.727	1.00	0.00	C
ATOM	1344	O	VAL	B	115	33.961	122.124	4.396	1.00	0.00	O
ATOM	1345	CB	VAL	B	115	33.001	119.082	3.891	1.00	0.00	C
ATOM	1346	HB	VAL	B	115	32.549	119.774	3.181	1.00	0.00	H
ATOM	1347	CG1	VAL	B	115	34.171	118.359	3.207	1.00	0.00	C
ATOM	1348	1HG1	VAL	B	115	34.880	119.079	2.799	1.00	0.00	H
ATOM	1349	2HG1	VAL	B	115	33.799	117.762	2.373	1.00	0.00	H
ATOM	1350	3HG1	VAL	B	115	34.675	117.698	3.912	1.00	0.00	H
ATOM	1351	CG2	VAL	B	115	31.957	118.021	4.268	1.00	0.00	C
ATOM	1352	1HG2	VAL	B	115	31.783	117.342	3.433	1.00	0.00	H
ATOM	1353	2HG2	VAL	B	115	31.008	118.496	4.504	1.00	0.00	H
ATOM	1354	3HG2	VAL	B	115	32.301	117.445	5.126	1.00	0.00	H
ATOM	1355	N	ASP	B	116	35.712	120.756	4.765	1.00	0.00	N
ATOM	1356	H	ASP	B	116	35.990	119.818	5.007	1.00	0.00	H
ATOM	1357	CA	ASP	B	116	36.775	121.684	4.359	1.00	0.00	C
ATOM	1358	HA	ASP	B	116	36.632	122.618	4.903	1.00	0.00	H
ATOM	1359	C	ASP	B	116	36.759	121.999	2.849	1.00	0.00	C
ATOM	1360	O	ASP	B	116	36.490	121.136	2.017	1.00	0.00	O
ATOM	1361	CB	ASP	B	116	38.126	121.089	4.777	1.00	0.00	C
ATOM	1362	1HB	ASP	B	116	38.085	120.819	5.835	1.00	0.00	H
ATOM	1363	2HB	ASP	B	116	38.315	120.178	4.205	1.00	0.00	H
ATOM	1364	CG	ASP	B	116	39.279	122.068	4.559	1.00	0.00	C
ATOM	1365	OD1	ASP	B	116	39.835	122.582	5.553	1.00	0.00	O
ATOM	1366	OD2	ASP	B	116	39.696	122.274	3.401	1.00	0.00	O
ATOM	1367	N	TYR	B	117	37.095	123.245	2.498	1.00	0.00	N
ATOM	1368	H	TYR	B	117	37.488	123.835	3.211	1.00	0.00	H
ATOM	1369	CA	TYR	B	117	36.994	123.800	1.145	1.00	0.00	C
ATOM	1370	HA	TYR	B	117	36.028	123.488	0.752	1.00	0.00	H
ATOM	1371	C	TYR	B	117	38.030	123.308	0.114	1.00	0.00	C
ATOM	1372	O	TYR	B	117	38.028	123.810	-1.011	1.00	0.00	O
ATOM	1373	CB	TYR	B	117	37.016	125.335	1.250	1.00	0.00	C
ATOM	1374	1HB	TYR	B	117	36.736	125.749	0.280	1.00	0.00	H
ATOM	1375	2HB	TYR	B	117	36.254	125.647	1.965	1.00	0.00	H
ATOM	1376	CG	TYR	B	117	38.350	125.946	1.651	1.00	0.00	C
ATOM	1377	CD1	TYR	B	117	38.635	126.218	3.004	1.00	0.00	C
ATOM	1378	HD1	TYR	B	117	37.909	125.983	3.769	1.00	0.00	H
ATOM	1379	CD2	TYR	B	117	39.310	126.239	0.661	1.00	0.00	C
ATOM	1380	HD2	TYR	B	117	39.096	126.014	-0.377	1.00	0.00	H
ATOM	1381	CE1	TYR	B	117	39.880	126.771	3.365	1.00	0.00	C
ATOM	1382	HE1	TYR	B	117	40.116	126.953	4.402	1.00	0.00	H
ATOM	1383	CE2	TYR	B	117	40.558	126.780	1.018	1.00	0.00	C
ATOM	1384	HE2	TYR	B	117	41.293	126.973	0.253	1.00	0.00	H
ATOM	1385	CZ	TYR	B	117	40.846	127.043	2.374	1.00	0.00	C
ATOM	1386	OH	TYR	B	117	42.054	127.565	2.718	1.00	0.00	O
ATOM	1387	HH	TYR	B	117	42.631	127.597	1.955	1.00	0.00	H
ATOM	1388	N	ALA	B	118	38.927	122.389	0.478	1.00	0.00	N
ATOM	1389	H	ALA	B	118	38.942	122.098	1.451	1.00	0.00	H
ATOM	1390	CA	ALA	B	118	39.952	121.835	-0.416	1.00	0.00	C
ATOM	1391	HA	ALA	B	118	39.772	122.190	-1.431	1.00	0.00	H
ATOM	1392	C	ALA	B	118	39.930	120.292	-0.513	1.00	0.00	C
ATOM	1393	O	ALA	B	118	40.825	119.715	-1.128	1.00	0.00	O
ATOM	1394	CB	ALA	B	118	41.313	122.379	0.040	1.00	0.00	C
ATOM	1395	1HB	ALA	B	118	41.528	122.017	1.044	1.00	0.00	H
ATOM	1396	2HB	ALA	B	118	41.293	123.468	0.041	1.00	0.00	H
ATOM	1397	3HB	ALA	B	118	42.091	122.032	-0.641	1.00	0.00	H
ATOM	1398	N	CYS	B	119	38.928	119.651	0.097	1.00	0.00	N
ATOM	1399	H	CYS	B	119	38.204	120.212	0.521	1.00	0.00	H
ATOM	1400	CA	CYS	B	119	38.705	118.204	0.073	1.00	0.00	C
ATOM	1401	HA	CYS	B	119	39.626	117.688	0.357	1.00	0.00	H
ATOM	1402	C	CYS	B	119	38.274	117.692	-1.321	1.00	0.00	C
ATOM	1403	O	CYS	B	119	37.709	118.449	-2.115	1.00	0.00	O
ATOM	1404	CB	CYS	B	119	37.613	117.933	1.121	1.00	0.00	C
ATOM	1405	1HB	CYS	B	119	37.797	118.535	2.011	1.00	0.00	H
ATOM	1406	2HB	CYS	B	119	36.642	118.209	0.704	1.00	0.00	H
ATOM	1407	SG	CYS	B	119	37.607	116.188	1.601	1.00	0.00	S
ATOM	1408	HG	CYS	B	119	36.371	116.141	2.109	1.00	0.00	H
ATOM	1409	N	THR	B	120	38.454	116.396	-1.588	1.00	0.00	N

ATOM	1410	H	THR	B	120	38.980	115.843	-0.915	1.00	0.00	H
ATOM	1411	CA	THR	B	120	38.055	115.716	-2.837	1.00	0.00	C
ATOM	1412	HA	THR	B	120	37.539	116.430	-3.476	1.00	0.00	H
ATOM	1413	C	THR	B	120	37.105	114.539	-2.567	1.00	0.00	C
ATOM	1414	O	THR	B	120	37.228	113.875	-1.537	1.00	0.00	O
ATOM	1415	CB	THR	B	120	39.281	115.206	-3.614	1.00	0.00	C
ATOM	1416	HB	THR	B	120	38.936	114.700	-4.516	1.00	0.00	H
ATOM	1417	OG1	THR	B	120	40.035	114.292	-2.854	1.00	0.00	O
ATOM	1418	HG1	THR	B	120	40.356	114.755	-2.049	1.00	0.00	H
ATOM	1419	CG2	THR	B	120	40.222	116.336	-4.030	1.00	0.00	C
ATOM	1420	1HG2	THR	B	120	39.670	117.077	-4.607	1.00	0.00	H
ATOM	1421	2HG2	THR	B	120	41.022	115.925	-4.646	1.00	0.00	H
ATOM	1422	3HG2	THR	B	120	40.656	116.811	-3.149	1.00	0.00	H
ATOM	1423	N	PRO	B	121	36.133	114.247	-3.454	1.00	0.00	N
ATOM	1424	CA	PRO	B	121	35.200	113.142	-3.229	1.00	0.00	C
ATOM	1425	HA	PRO	B	121	34.728	113.256	-2.253	1.00	0.00	H
ATOM	1426	C	PRO	B	121	35.904	111.775	-3.249	1.00	0.00	C
ATOM	1427	O	PRO	B	121	35.550	110.893	-2.467	1.00	0.00	O
ATOM	1428	CB	PRO	B	121	34.128	113.286	-4.311	1.00	0.00	C
ATOM	1429	1HB	PRO	B	121	33.776	112.323	-4.666	1.00	0.00	H
ATOM	1430	2HB	PRO	B	121	33.297	113.869	-3.916	1.00	0.00	H
ATOM	1431	CG	PRO	B	121	34.808	114.063	-5.434	1.00	0.00	C
ATOM	1432	1HG	PRO	B	121	35.288	113.359	-6.106	1.00	0.00	H
ATOM	1433	2HG	PRO	B	121	34.104	114.670	-5.999	1.00	0.00	H
ATOM	1434	CD	PRO	B	121	35.858	114.916	-4.719	1.00	0.00	C
ATOM	1435	1HD	PRO	B	121	36.755	114.991	-5.334	1.00	0.00	H
ATOM	1436	2HD	PRO	B	121	35.453	115.909	-4.522	1.00	0.00	H
ATOM	1437	N	GLU	B	122	36.942	111.612	-4.072	1.00	0.00	N
ATOM	1438	H	GLU	B	122	37.156	112.345	-4.749	1.00	0.00	H
ATOM	1439	CA	GLU	B	122	37.764	110.401	-4.126	1.00	0.00	C
ATOM	1440	HA	GLU	B	122	37.120	109.549	-4.342	1.00	0.00	H
ATOM	1441	C	GLU	B	122	38.458	110.109	-2.786	1.00	0.00	C
ATOM	1442	O	GLU	B	122	38.417	108.970	-2.318	1.00	0.00	O
ATOM	1443	CB	GLU	B	122	38.807	110.509	-5.255	1.00	0.00	C
ATOM	1444	1HB	GLU	B	122	39.404	111.412	-5.119	1.00	0.00	H
ATOM	1445	2HB	GLU	B	122	39.483	109.657	-5.168	1.00	0.00	H
ATOM	1446	CG	GLU	B	122	38.215	110.479	-6.679	1.00	0.00	C
ATOM	1447	1HG	GLU	B	122	39.042	110.426	-7.389	1.00	0.00	H
ATOM	1448	2HG	GLU	B	122	37.624	109.566	-6.785	1.00	0.00	H
ATOM	1449	CD	GLU	B	122	37.349	111.700	-7.028	1.00	0.00	C
ATOM	1450	OE1	GLU	B	122	36.334	111.522	-7.747	1.00	0.00	O
ATOM	1451	OE2	GLU	B	122	37.653	112.809	-6.527	1.00	0.00	O
ATOM	1452	N	GLU	B	123	39.050	111.115	-2.121	1.00	0.00	N
ATOM	1453	H	GLU	B	123	39.061	112.047	-2.521	1.00	0.00	H
ATOM	1454	CA	GLU	B	123	39.662	110.890	-0.804	1.00	0.00	C
ATOM	1455	HA	GLU	B	123	40.245	109.977	-0.891	1.00	0.00	H
ATOM	1456	C	GLU	B	123	38.612	110.636	0.292	1.00	0.00	C
ATOM	1457	O	GLU	B	123	38.863	109.826	1.185	1.00	0.00	O
ATOM	1458	CB	GLU	B	123	40.686	111.979	-0.432	1.00	0.00	C
ATOM	1459	1HB	GLU	B	123	41.454	111.518	0.191	1.00	0.00	H
ATOM	1460	2HB	GLU	B	123	41.178	112.319	-1.344	1.00	0.00	H
ATOM	1461	CG	GLU	B	123	40.135	113.184	0.339	1.00	0.00	C
ATOM	1462	1HG	GLU	B	123	39.185	113.487	-0.090	1.00	0.00	H
ATOM	1463	2HG	GLU	B	123	39.957	112.900	1.379	1.00	0.00	H
ATOM	1464	CD	GLU	B	123	41.107	114.363	0.277	1.00	0.00	C
ATOM	1465	OE1	GLU	B	123	40.841	115.305	-0.507	1.00	0.00	O
ATOM	1466	OE2	GLU	B	123	42.112	114.374	1.023	1.00	0.00	O
ATOM	1467	N	VAL	B	124	37.425	111.256	0.202	1.00	0.00	N
ATOM	1468	H	VAL	B	124	37.294	111.914	-0.560	1.00	0.00	H
ATOM	1469	CA	VAL	B	124	36.290	110.994	1.109	1.00	0.00	C
ATOM	1470	HA	VAL	B	124	36.616	111.185	2.128	1.00	0.00	H
ATOM	1471	C	VAL	B	124	35.871	109.525	1.067	1.00	0.00	C
ATOM	1472	O	VAL	B	124	35.785	108.904	2.129	1.00	0.00	O
ATOM	1473	CB	VAL	B	124	35.089	111.921	0.809	1.00	0.00	C
ATOM	1474	HB	VAL	B	124	34.872	111.899	-0.256	1.00	0.00	H
ATOM	1475	CG1	VAL	B	124	33.807	111.530	1.558	1.00	0.00	C
ATOM	1476	1HG1	VAL	B	124	33.025	112.265	1.370	1.00	0.00	H
ATOM	1477	2HG1	VAL	B	124	34.008	111.475	2.629	1.00	0.00	H
ATOM	1478	3HG1	VAL	B	124	33.446	110.562	1.210	1.00	0.00	H
ATOM	1479	CG2	VAL	B	124	35.389	113.369	1.210	1.00	0.00	C
ATOM	1480	1HG2	VAL	B	124	34.614	114.027	0.817	1.00	0.00	H
ATOM	1481	2HG2	VAL	B	124	36.347	113.677	0.797	1.00	0.00	H
ATOM	1482	3HG2	VAL	B	124	35.426	113.460	2.294	1.00	0.00	H
ATOM	1483	N	GLN	B	125	35.636	108.949	-0.121	1.00	0.00	N
ATOM	1484	H	GLN	B	125	35.728	109.492	-0.974	1.00	0.00	H
ATOM	1485	CA	GLN	B	125	35.183	107.555	-0.186	1.00	0.00	C
ATOM	1486	HA	GLN	B	125	34.352	107.474	0.516	1.00	0.00	H

ATOM	1487	C	GLN	B	125	36.229	106.567	0.342	1.00	0.00	C
ATOM	1488	O	GLN	B	125	35.866	105.725	1.154	1.00	0.00	O
ATOM	1489	CB	GLN	B	125	34.578	107.171	-1.547	1.00	0.00	C
ATOM	1490	1HB	GLN	B	125	34.168	106.163	-1.453	1.00	0.00	H
ATOM	1491	2HB	GLN	B	125	33.740	107.842	-1.715	1.00	0.00	H
ATOM	1492	CG	GLN	B	125	35.471	107.207	-2.800	1.00	0.00	C
ATOM	1493	1HG	GLN	B	125	35.920	108.194	-2.882	1.00	0.00	H
ATOM	1494	2HG	GLN	B	125	36.265	106.466	-2.714	1.00	0.00	H
ATOM	1495	CD	GLN	B	125	34.668	106.933	-4.082	1.00	0.00	C
ATOM	1496	OE1	GLN	B	125	33.534	106.482	-4.051	1.00	0.00	O
ATOM	1497	NE2	GLN	B	125	35.197	107.259	-5.245	1.00	0.00	N
ATOM	1498	1HE2	GLN	B	125	34.631	107.122	-6.089	1.00	0.00	H
ATOM	1499	2HE2	GLN	B	125	36.144	107.565	-5.323	1.00	0.00	H
ATOM	1500	N	GLN	B	126	37.524	106.715	0.027	1.00	0.00	N
ATOM	1501	H	GLN	B	126	37.794	107.425	-0.643	1.00	0.00	H
ATOM	1502	CA	GLN	B	126	38.553	105.832	0.610	1.00	0.00	C
ATOM	1503	HA	GLN	B	126	38.161	104.815	0.551	1.00	0.00	H
ATOM	1504	C	GLN	B	126	38.818	106.071	2.111	1.00	0.00	C
ATOM	1505	O	GLN	B	126	39.178	105.126	2.810	1.00	0.00	O
ATOM	1506	CB	GLN	B	126	39.836	105.812	-0.242	1.00	0.00	C
ATOM	1507	1HB	GLN	B	126	40.511	105.047	0.145	1.00	0.00	H
ATOM	1508	2HB	GLN	B	126	39.549	105.505	-1.249	1.00	0.00	H
ATOM	1509	CG	GLN	B	126	40.595	107.141	-0.360	1.00	0.00	C
ATOM	1510	1HG	GLN	B	126	41.178	107.124	-1.281	1.00	0.00	H
ATOM	1511	2HG	GLN	B	126	39.876	107.948	-0.440	1.00	0.00	H
ATOM	1512	CD	GLN	B	126	41.563	107.415	0.787	1.00	0.00	C
ATOM	1513	OE1	GLN	B	126	42.595	106.786	0.936	1.00	0.00	O
ATOM	1514	NE2	GLN	B	126	41.298	108.395	1.620	1.00	0.00	N
ATOM	1515	1HE2	GLN	B	126	41.933	108.507	2.389	1.00	0.00	H
ATOM	1516	2HE2	GLN	B	126	40.429	108.911	1.541	1.00	0.00	H
ATOM	1517	N	HIS	B	127	38.572	107.277	2.650	1.00	0.00	N
ATOM	1518	H	HIS	B	127	38.269	108.032	2.045	1.00	0.00	H
ATOM	1519	CA	HIS	B	127	38.597	107.516	4.103	1.00	0.00	C
ATOM	1520	HA	HIS	B	127	39.563	107.204	4.504	1.00	0.00	H
ATOM	1521	C	HIS	B	127	37.521	106.672	4.805	1.00	0.00	C
ATOM	1522	O	HIS	B	127	37.805	106.011	5.800	1.00	0.00	O
ATOM	1523	CB	HIS	B	127	38.376	109.009	4.430	1.00	0.00	C
ATOM	1524	1HB	HIS	B	127	37.904	109.512	3.589	1.00	0.00	H
ATOM	1525	2HB	HIS	B	127	37.671	109.072	5.260	1.00	0.00	H
ATOM	1526	CG	HIS	B	127	39.603	109.791	4.848	1.00	0.00	C
ATOM	1527	ND1	HIS	B	127	40.015	110.021	6.144	1.00	0.00	N
ATOM	1528	HD1	HIS	B	127	39.549	109.706	6.986	1.00	0.00	H
ATOM	1529	CD2	HIS	B	127	40.420	110.539	4.041	1.00	0.00	C
ATOM	1530	HD2	HIS	B	127	40.331	110.646	2.971	1.00	0.00	H
ATOM	1531	CE1	HIS	B	127	41.075	110.847	6.114	1.00	0.00	C
ATOM	1532	HE1	HIS	B	127	41.604	111.210	6.988	1.00	0.00	H
ATOM	1533	NE2	HIS	B	127	41.338	111.221	4.851	1.00	0.00	N
ATOM	1534	N	PHE	B	128	36.287	106.669	4.289	1.00	0.00	N
ATOM	1535	H	PHE	B	128	36.091	107.245	3.476	1.00	0.00	H
ATOM	1536	CA	PHE	B	128	35.210	105.847	4.847	1.00	0.00	C
ATOM	1537	HA	PHE	B	128	35.255	105.904	5.933	1.00	0.00	H
ATOM	1538	C	PHE	B	128	35.326	104.358	4.485	1.00	0.00	C
ATOM	1539	O	PHE	B	128	34.903	103.531	5.276	1.00	0.00	O
ATOM	1540	CB	PHE	B	128	33.846	106.375	4.399	1.00	0.00	C
ATOM	1541	1HB	PHE	B	128	33.795	106.274	3.316	1.00	0.00	H
ATOM	1542	2HB	PHE	B	128	33.072	105.733	4.825	1.00	0.00	H
ATOM	1543	CG	PHE	B	128	33.500	107.811	4.756	1.00	0.00	C
ATOM	1544	CD1	PHE	B	128	33.929	108.417	5.955	1.00	0.00	C
ATOM	1545	HD1	PHE	B	128	34.554	107.874	6.649	1.00	0.00	H
ATOM	1546	CD2	PHE	B	128	32.692	108.539	3.866	1.00	0.00	C
ATOM	1547	HD2	PHE	B	128	32.371	108.083	2.941	1.00	0.00	H
ATOM	1548	CE1	PHE	B	128	33.559	109.744	6.249	1.00	0.00	C
ATOM	1549	HE1	PHE	B	128	33.912	110.209	7.158	1.00	0.00	H
ATOM	1550	CE2	PHE	B	128	32.302	109.853	4.169	1.00	0.00	C
ATOM	1551	HE2	PHE	B	128	31.681	110.393	3.471	1.00	0.00	H
ATOM	1552	CZ	PHE	B	128	32.740	110.461	5.358	1.00	0.00	C
ATOM	1553	HZ	PHE	B	128	32.451	111.477	5.582	1.00	0.00	H
ATOM	1554	N	GLN	B	129	35.905	103.992	3.342	1.00	0.00	N
ATOM	1555	H	GLN	B	129	36.126	104.703	2.655	1.00	0.00	H
ATOM	1556	CA	GLN	B	129	36.140	102.589	2.982	1.00	0.00	C
ATOM	1557	HA	GLN	B	129	35.217	102.030	3.149	1.00	0.00	H
ATOM	1558	C	GLN	B	129	37.234	101.946	3.840	1.00	0.00	C
ATOM	1559	O	GLN	B	129	37.118	100.773	4.170	1.00	0.00	O
ATOM	1560	CB	GLN	B	129	36.520	102.494	1.500	1.00	0.00	C
ATOM	1561	1HB	GLN	B	129	35.939	103.211	0.923	1.00	0.00	H
ATOM	1562	2HB	GLN	B	129	37.576	102.740	1.380	1.00	0.00	H
ATOM	1563	CG	GLN	B	129	36.247	101.107	0.913	1.00	0.00	C

ATOM	1564	1HG	GLN	B	129	36.836	100.353	1.438	1.00	0.00	H
ATOM	1565	2HG	GLN	B	129	35.190	100.862	1.015	1.00	0.00	H
ATOM	1566	CD	GLN	B	129	36.634	101.095	-0.557	1.00	0.00	C
ATOM	1567	OE1	GLN	B	129	37.792	100.979	-0.912	1.00	0.00	O
ATOM	1568	NE2	GLN	B	129	35.709	101.293	-1.471	1.00	0.00	N
ATOM	1569	1HE2	GLN	B	129	36.019	101.225	-2.423	1.00	0.00	H
ATOM	1570	2HE2	GLN	B	129	34.727	101.397	-1.236	1.00	0.00	H
ATOM	1571	N	SER	B	130	38.246	102.731	4.253	1.00	0.00	N
ATOM	1572	H	SER	B	130	38.304	103.666	3.874	1.00	0.00	H
ATOM	1573	CA	SER	B	130	39.248	102.322	5.259	1.00	0.00	C
ATOM	1574	HA	SER	B	130	39.856	101.526	4.844	1.00	0.00	H
ATOM	1575	C	SER	B	130	38.589	101.800	6.530	1.00	0.00	C
ATOM	1576	O	SER	B	130	39.076	100.902	7.215	1.00	0.00	O
ATOM	1577	CB	SER	B	130	40.091	103.525	5.725	1.00	0.00	C
ATOM	1578	1HB	SER	B	130	39.431	104.262	6.179	1.00	0.00	H
ATOM	1579	2HB	SER	B	130	40.775	103.194	6.506	1.00	0.00	H
ATOM	1580	OG	SER	B	130	40.841	104.174	4.722	1.00	0.00	O
ATOM	1581	HG	SER	B	130	40.262	104.363	3.964	1.00	0.00	H
ATOM	1582	N	CYS	B	131	37.500	102.507	6.818	1.00	0.00	N
ATOM	1583	H	CYS	B	131	37.322	103.269	6.189	1.00	0.00	H
ATOM	1584	CA	CYS	B	131	36.424	102.222	7.716	1.00	0.00	C
ATOM	1585	HA	CYS	B	131	36.841	101.810	8.602	1.00	0.00	H
ATOM	1586	C	CYS	B	131	35.529	101.050	7.249	1.00	0.00	C
ATOM	1587	O	CYS	B	131	35.971	99.906	7.212	1.00	0.00	O
ATOM	1588	CB	CYS	B	131	35.737	103.585	8.044	1.00	0.00	C
ATOM	1589	1HB	CYS	B	131	35.745	104.227	7.180	1.00	0.00	H
ATOM	1590	2HB	CYS	B	131	34.708	103.417	8.355	1.00	0.00	H
ATOM	1591	SG	CYS	B	131	36.559	104.575	9.320	1.00	0.00	S
ATOM	1592	HG	CYS	B	131	35.523	105.317	9.719	1.00	0.00	H
ATOM	1593	N	GLY	B	132	34.244	101.293	6.983	1.00	0.00	N
ATOM	1594	H	GLY	B	132	34.009	102.253	6.774	1.00	0.00	H
ATOM	1595	CA	GLY	B	132	33.299	100.260	6.555	1.00	0.00	C
ATOM	1596	1HA	GLY	B	132	33.686	99.264	6.776	1.00	0.00	H
ATOM	1597	2HA	GLY	B	132	32.351	100.385	7.077	1.00	0.00	H
ATOM	1598	C	GLY	B	132	33.047	100.384	5.058	1.00	0.00	C
ATOM	1599	O	GLY	B	132	32.980	101.499	4.543	1.00	0.00	O
ATOM	1600	N	THR	B	133	32.895	99.255	4.358	1.00	0.00	N
ATOM	1601	H	THR	B	133	33.001	98.371	4.831	1.00	0.00	H
ATOM	1602	CA	THR	B	133	32.803	99.263	2.889	1.00	0.00	C
ATOM	1603	HA	THR	B	133	33.749	99.676	2.540	1.00	0.00	H
ATOM	1604	C	THR	B	133	31.702	100.193	2.353	1.00	0.00	C
ATOM	1605	O	THR	B	133	30.583	100.261	2.869	1.00	0.00	O
ATOM	1606	CB	THR	B	133	32.733	97.856	2.280	1.00	0.00	C
ATOM	1607	HB	THR	B	133	33.607	97.292	2.605	1.00	0.00	H
ATOM	1608	OG1	THR	B	133	32.768	97.981	0.882	1.00	0.00	O
ATOM	1609	HG1	THR	B	133	32.648	97.103	0.507	1.00	0.00	H
ATOM	1610	CG2	THR	B	133	31.483	97.053	2.619	1.00	0.00	C
ATOM	1611	1HG2	THR	B	133	31.586	96.038	2.234	1.00	0.00	H
ATOM	1612	2HG2	THR	B	133	30.616	97.519	2.154	1.00	0.00	H
ATOM	1613	3HG2	THR	B	133	31.352	97.007	3.698	1.00	0.00	H
ATOM	1614	N	VAL	B	134	32.072	100.944	1.318	1.00	0.00	N
ATOM	1615	H	VAL	B	134	32.966	100.722	0.903	1.00	0.00	H
ATOM	1616	CA	VAL	B	134	31.331	102.036	0.680	1.00	0.00	C
ATOM	1617	HA	VAL	B	134	30.265	101.845	0.761	1.00	0.00	H
ATOM	1618	C	VAL	B	134	31.726	102.037	-0.799	1.00	0.00	C
ATOM	1619	O	VAL	B	134	32.882	101.745	-1.118	1.00	0.00	O
ATOM	1620	CB	VAL	B	134	31.644	103.370	1.393	1.00	0.00	C
ATOM	1621	HB	VAL	B	134	31.494	103.219	2.463	1.00	0.00	H
ATOM	1622	CG1	VAL	B	134	33.084	103.844	1.194	1.00	0.00	C
ATOM	1623	1HG1	VAL	B	134	33.757	103.057	1.518	1.00	0.00	H
ATOM	1624	2HG1	VAL	B	134	33.271	104.728	1.797	1.00	0.00	H
ATOM	1625	3HG1	VAL	B	134	33.279	104.083	0.148	1.00	0.00	H
ATOM	1626	CG2	VAL	B	134	30.711	104.507	0.979	1.00	0.00	C
ATOM	1627	1HG2	VAL	B	134	29.688	104.247	1.243	1.00	0.00	H
ATOM	1628	2HG2	VAL	B	134	30.782	104.691	-0.094	1.00	0.00	H
ATOM	1629	3HG2	VAL	B	134	30.986	105.412	1.519	1.00	0.00	H
ATOM	1630	N	ASN	B	135	30.784	102.313	-1.703	1.00	0.00	N
ATOM	1631	H	ASN	B	135	29.855	102.565	-1.376	1.00	0.00	H
ATOM	1632	CA	ASN	B	135	30.962	102.023	-3.131	1.00	0.00	C
ATOM	1633	HA	ASN	B	135	31.925	101.533	-3.291	1.00	0.00	H
ATOM	1634	C	ASN	B	135	31.005	103.274	-4.015	1.00	0.00	C
ATOM	1635	O	ASN	B	135	31.761	103.265	-4.984	1.00	0.00	O
ATOM	1636	CB	ASN	B	135	29.885	101.022	-3.585	1.00	0.00	C
ATOM	1637	1HB	ASN	B	135	30.154	100.022	-3.250	1.00	0.00	H
ATOM	1638	2HB	ASN	B	135	28.924	101.281	-3.142	1.00	0.00	H
ATOM	1639	CG	ASN	B	135	29.740	100.990	-5.099	1.00	0.00	C
ATOM	1640	OD1	ASN	B	135	30.603	100.530	-5.827	1.00	0.00	O

ATOM	1641	ND2	ASN	B	135	28.683	101.555	-5.622	1.00	0.00	N
ATOM	1642	1HD2	ASN	B	135	28.586	101.545	-6.617	1.00	0.00	H
ATOM	1643	2HD2	ASN	B	135	28.025	102.040	-4.999	1.00	0.00	H
ATOM	1644	N	ARG	B	136	30.244	104.335	-3.720	1.00	0.00	N
ATOM	1645	H	ARG	B	136	29.576	104.248	-2.966	1.00	0.00	H
ATOM	1646	CA	ARG	B	136	30.260	105.579	-4.514	1.00	0.00	C
ATOM	1647	HA	ARG	B	136	31.242	105.656	-4.990	1.00	0.00	H
ATOM	1648	C	ARG	B	136	30.106	106.839	-3.660	1.00	0.00	C
ATOM	1649	O	ARG	B	136	29.737	106.777	-2.485	1.00	0.00	O
ATOM	1650	CB	ARG	B	136	29.167	105.512	-5.607	1.00	0.00	C
ATOM	1651	1HB	ARG	B	136	28.872	104.477	-5.790	1.00	0.00	H
ATOM	1652	2HB	ARG	B	136	28.275	106.029	-5.249	1.00	0.00	H
ATOM	1653	CG	ARG	B	136	29.623	106.147	-6.937	1.00	0.00	C
ATOM	1654	1HG	ARG	B	136	28.792	106.718	-7.352	1.00	0.00	H
ATOM	1655	2HG	ARG	B	136	30.446	106.842	-6.769	1.00	0.00	H
ATOM	1656	CD	ARG	B	136	30.056	105.124	-7.994	1.00	0.00	C
ATOM	1657	1HD	ARG	B	136	29.171	104.591	-8.349	1.00	0.00	H
ATOM	1658	2HD	ARG	B	136	30.464	105.677	-8.836	1.00	0.00	H
ATOM	1659	NE	ARG	B	136	31.032	104.134	-7.498	1.00	0.00	N
ATOM	1660	HE	ARG	B	136	30.934	103.820	-6.542	1.00	0.00	H
ATOM	1661	CZ	ARG	B	136	31.988	103.517	-8.169	1.00	0.00	C
ATOM	1662	NH1	ARG	B	136	32.446	103.940	-9.307	1.00	0.00	N
ATOM	1663	1HH1	ARG	B	136	32.188	104.895	-9.561	1.00	0.00	H
ATOM	1664	2HH1	ARG	B	136	33.145	103.444	-9.823	1.00	0.00	H
ATOM	1665	NH2	ARG	B	136	32.514	102.437	-7.671	1.00	0.00	N
ATOM	1666	1HH2	ARG	B	136	32.185	102.114	-6.767	1.00	0.00	H
ATOM	1667	2HH2	ARG	B	136	33.228	101.944	-8.166	1.00	0.00	H
ATOM	1668	N	VAL	B	137	30.333	107.993	-4.292	1.00	0.00	N
ATOM	1669	H	VAL	B	137	30.626	107.934	-5.256	1.00	0.00	H
ATOM	1670	CA	VAL	B	137	30.325	109.335	-3.693	1.00	0.00	C
ATOM	1671	HA	VAL	B	137	29.653	109.332	-2.837	1.00	0.00	H
ATOM	1672	C	VAL	B	137	29.839	110.391	-4.687	1.00	0.00	C
ATOM	1673	O	VAL	B	137	30.204	110.355	-5.858	1.00	0.00	O
ATOM	1674	CB	VAL	B	137	31.748	109.687	-3.208	1.00	0.00	C
ATOM	1675	HB	VAL	B	137	32.039	108.918	-2.499	1.00	0.00	H
ATOM	1676	CG1	VAL	B	137	32.787	109.699	-4.339	1.00	0.00	C
ATOM	1677	1HG1	VAL	B	137	32.605	110.526	-5.019	1.00	0.00	H
ATOM	1678	2HG1	VAL	B	137	32.737	108.777	-4.915	1.00	0.00	H
ATOM	1679	3HG1	VAL	B	137	33.787	109.783	-3.922	1.00	0.00	H
ATOM	1680	CG2	VAL	B	137	31.825	111.035	-2.474	1.00	0.00	C
ATOM	1681	1HG2	VAL	B	137	32.807	111.135	-2.010	1.00	0.00	H
ATOM	1682	2HG2	VAL	B	137	31.063	111.083	-1.697	1.00	0.00	H
ATOM	1683	3HG2	VAL	B	137	31.676	111.860	-3.168	1.00	0.00	H
ATOM	1684	N	THR	B	138	29.117	111.397	-4.196	1.00	0.00	N
ATOM	1685	H	THR	B	138	28.839	111.347	-3.220	1.00	0.00	H
ATOM	1686	CA	THR	B	138	28.729	112.599	-4.954	1.00	0.00	C
ATOM	1687	HA	THR	B	138	29.340	112.687	-5.852	1.00	0.00	H
ATOM	1688	C	THR	B	138	28.939	113.828	-4.073	1.00	0.00	C
ATOM	1689	O	THR	B	138	28.708	113.771	-2.867	1.00	0.00	O
ATOM	1690	CB	THR	B	138	27.256	112.524	-5.375	1.00	0.00	C
ATOM	1691	HB	THR	B	138	26.662	112.446	-4.471	1.00	0.00	H
ATOM	1692	OG1	THR	B	138	27.019	111.396	-6.178	1.00	0.00	O
ATOM	1693	HG1	THR	B	138	26.067	111.347	-6.326	1.00	0.00	H
ATOM	1694	CG2	THR	B	138	26.775	113.723	-6.195	1.00	0.00	C
ATOM	1695	1HG2	THR	B	138	26.765	114.623	-5.582	1.00	0.00	H
ATOM	1696	2HG2	THR	B	138	25.758	113.544	-6.545	1.00	0.00	H
ATOM	1697	3HG2	THR	B	138	27.424	113.870	-7.059	1.00	0.00	H
ATOM	1698	N	ILE	B	139	29.365	114.952	-4.657	1.00	0.00	N
ATOM	1699	H	ILE	B	139	29.480	114.963	-5.660	1.00	0.00	H
ATOM	1700	CA	ILE	B	139	29.703	116.184	-3.928	1.00	0.00	C
ATOM	1701	HA	ILE	B	139	29.180	116.175	-2.972	1.00	0.00	H
ATOM	1702	C	ILE	B	139	29.226	117.421	-4.701	1.00	0.00	C
ATOM	1703	O	ILE	B	139	29.381	117.492	-5.923	1.00	0.00	O
ATOM	1704	CB	ILE	B	139	31.225	116.199	-3.638	1.00	0.00	C
ATOM	1705	HB	ILE	B	139	31.487	115.214	-3.249	1.00	0.00	H
ATOM	1706	CG1	ILE	B	139	31.577	117.214	-2.535	1.00	0.00	C
ATOM	1707	1HG1	ILE	B	139	31.317	118.215	-2.864	1.00	0.00	H
ATOM	1708	2HG1	ILE	B	139	30.969	117.000	-1.663	1.00	0.00	H
ATOM	1709	CG2	ILE	B	139	32.065	116.442	-4.907	1.00	0.00	C
ATOM	1710	1HG2	ILE	B	139	33.120	116.297	-4.689	1.00	0.00	H
ATOM	1711	2HG2	ILE	B	139	31.928	117.459	-5.273	1.00	0.00	H
ATOM	1712	3HG2	ILE	B	139	31.780	115.739	-5.690	1.00	0.00	H
ATOM	1713	CD1	ILE	B	139	33.050	117.176	-2.098	1.00	0.00	C
ATOM	1714	1HD1	ILE	B	139	33.340	116.153	-1.855	1.00	0.00	H
ATOM	1715	2HD1	ILE	B	139	33.185	117.796	-1.214	1.00	0.00	H
ATOM	1716	3HD1	ILE	B	139	33.694	117.561	-2.888	1.00	0.00	H
ATOM	1717	N	LEU	B	140	28.665	118.407	-3.988	1.00	0.00	N



ATOM	1718	H	LEU	B	140	28.524	118.243	-2.995	1.00	0.00	H
ATOM	1719	CA	LEU	B	140	28.010	119.580	-4.595	1.00	0.00	C
ATOM	1720	HA	LEU	B	140	28.090	119.484	-5.678	1.00	0.00	H
ATOM	1721	C	LEU	B	140	28.693	120.923	-4.248	1.00	0.00	C
ATOM	1722	O	LEU	B	140	28.390	121.948	-4.865	1.00	0.00	O
ATOM	1723	CB	LEU	B	140	26.508	119.514	-4.245	1.00	0.00	C
ATOM	1724	1HB	LEU	B	140	26.145	118.516	-4.499	1.00	0.00	H
ATOM	1725	2HB	LEU	B	140	26.398	119.626	-3.168	1.00	0.00	H
ATOM	1726	CG	LEU	B	140	25.591	120.537	-4.948	1.00	0.00	C
ATOM	1727	HG	LEU	B	140	25.850	121.543	-4.619	1.00	0.00	H
ATOM	1728	CD1	LEU	B	140	25.694	120.477	-6.475	1.00	0.00	C
ATOM	1729	1HD1	LEU	B	140	26.686	120.783	-6.800	1.00	0.00	H
ATOM	1730	2HD1	LEU	B	140	24.958	121.142	-6.924	1.00	0.00	H
ATOM	1731	3HD1	LEU	B	140	25.502	119.457	-6.816	1.00	0.00	H
ATOM	1732	CD2	LEU	B	140	24.130	120.289	-4.577	1.00	0.00	C
ATOM	1733	1HD2	LEU	B	140	23.830	119.292	-4.903	1.00	0.00	H
ATOM	1734	2HD2	LEU	B	140	23.484	121.030	-5.045	1.00	0.00	H
ATOM	1735	3HD2	LEU	B	140	24.008	120.341	-3.495	1.00	0.00	H
ATOM	1736	N	THR	B	141	29.682	120.892	-3.339	1.00	0.00	N
ATOM	1737	H	THR	B	141	29.855	119.984	-2.928	1.00	0.00	H
ATOM	1738	CA	THR	B	141	30.739	121.907	-3.125	1.00	0.00	C
ATOM	1739	HA	THR	B	141	31.060	121.832	-2.090	1.00	0.00	H
ATOM	1740	C	THR	B	141	30.283	123.353	-3.349	1.00	0.00	C
ATOM	1741	O	THR	B	141	30.473	123.878	-4.440	1.00	0.00	O
ATOM	1742	CB	THR	B	141	31.966	121.551	-3.992	1.00	0.00	C
ATOM	1743	HB	THR	B	141	31.663	121.470	-5.037	1.00	0.00	H
ATOM	1744	OG1	THR	B	141	32.442	120.309	-3.548	1.00	0.00	O
ATOM	1745	HG1	THR	B	141	33.135	120.013	-4.147	1.00	0.00	H
ATOM	1746	CG2	THR	B	141	33.174	122.486	-3.891	1.00	0.00	C
ATOM	1747	1HG2	THR	B	141	32.930	123.482	-4.254	1.00	0.00	H
ATOM	1748	2HG2	THR	B	141	33.988	122.093	-4.500	1.00	0.00	H
ATOM	1749	3HG2	THR	B	141	33.510	122.549	-2.861	1.00	0.00	H
ATOM	1750	N	ASP	B	142	29.656	123.971	-2.336	1.00	0.00	N
ATOM	1751	H	ASP	B	142	29.484	123.401	-1.521	1.00	0.00	H
ATOM	1752	CA	ASP	B	142	29.021	125.313	-2.299	1.00	0.00	C
ATOM	1753	HA	ASP	B	142	27.947	125.135	-2.378	1.00	0.00	H
ATOM	1754	C	ASP	B	142	29.352	126.348	-3.413	1.00	0.00	C
ATOM	1755	O	ASP	B	142	30.477	126.505	-3.888	1.00	0.00	O
ATOM	1756	CB	ASP	B	142	29.243	125.922	-0.900	1.00	0.00	C
ATOM	1757	1HB	ASP	B	142	28.590	125.423	-0.184	1.00	0.00	H
ATOM	1758	2HB	ASP	B	142	30.265	125.745	-0.585	1.00	0.00	H
ATOM	1759	CG	ASP	B	142	28.979	127.428	-0.869	1.00	0.00	C
ATOM	1760	OD1	ASP	B	142	27.802	127.835	-0.923	1.00	0.00	O
ATOM	1761	OD2	ASP	B	142	29.939	128.227	-0.922	1.00	0.00	O
ATOM	1762	N	LYS	B	143	28.339	127.148	-3.780	1.00	0.00	N
ATOM	1763	H	LYS	B	143	27.477	127.062	-3.250	1.00	0.00	H
ATOM	1764	CA	LYS	B	143	28.421	128.208	-4.804	1.00	0.00	C
ATOM	1765	HA	LYS	B	143	29.464	128.306	-5.106	1.00	0.00	H
ATOM	1766	C	LYS	B	143	28.026	129.609	-4.294	1.00	0.00	C
ATOM	1767	O	LYS	B	143	27.879	130.524	-5.101	1.00	0.00	O
ATOM	1768	CB	LYS	B	143	27.573	127.793	-6.030	1.00	0.00	C
ATOM	1769	1HB	LYS	B	143	27.325	126.732	-5.993	1.00	0.00	H
ATOM	1770	2HB	LYS	B	143	26.621	128.326	-5.993	1.00	0.00	H
ATOM	1771	CG	LYS	B	143	28.264	128.110	-7.369	1.00	0.00	C
ATOM	1772	1HG	LYS	B	143	27.507	128.479	-8.062	1.00	0.00	H
ATOM	1773	2HG	LYS	B	143	28.984	128.918	-7.227	1.00	0.00	H
ATOM	1774	CD	LYS	B	143	28.969	126.920	-8.050	1.00	0.00	C
ATOM	1775	1HD	LYS	B	143	28.217	126.264	-8.492	1.00	0.00	H
ATOM	1776	2HD	LYS	B	143	29.561	127.323	-8.873	1.00	0.00	H
ATOM	1777	CE	LYS	B	143	29.907	126.094	-7.152	1.00	0.00	C
ATOM	1778	1HE	LYS	B	143	30.769	125.777	-7.747	1.00	0.00	H
ATOM	1779	2HE	LYS	B	143	30.284	126.722	-6.338	1.00	0.00	H
ATOM	1780	NZ	LYS	B	143	29.247	124.886	-6.595	1.00	0.00	N
ATOM	1781	1HZ	LYS	B	143	29.874	124.416	-5.940	1.00	0.00	H
ATOM	1782	2HZ	LYS	B	143	29.001	124.201	-7.297	1.00	0.00	H
ATOM	1783	3HZ	LYS	B	143	28.433	125.110	-6.044	1.00	0.00	H
ATOM	1784	N	PHE	B	144	27.822	129.779	-2.986	1.00	0.00	N
ATOM	1785	H	PHE	B	144	28.007	128.990	-2.371	1.00	0.00	H
ATOM	1786	CA	PHE	B	144	27.095	130.909	-2.394	1.00	0.00	C
ATOM	1787	HA	PHE	B	144	27.080	131.749	-3.089	1.00	0.00	H
ATOM	1788	C	PHE	B	144	27.721	131.431	-1.088	1.00	0.00	C
ATOM	1789	O	PHE	B	144	27.873	132.644	-0.936	1.00	0.00	O
ATOM	1790	CB	PHE	B	144	25.645	130.437	-2.172	1.00	0.00	C
ATOM	1791	1HB	PHE	B	144	25.135	130.413	-3.136	1.00	0.00	H
ATOM	1792	2HB	PHE	B	144	25.667	129.411	-1.798	1.00	0.00	H
ATOM	1793	CG	PHE	B	144	24.814	131.263	-1.207	1.00	0.00	C
ATOM	1794	CD1	PHE	B	144	24.567	132.626	-1.460	1.00	0.00	C

ATOM	1795	HD1	PHE	B	144	24.977	133.091	-2.344	1.00	0.00	H
ATOM	1796	CD2	PHE	B	144	24.289	130.662	-0.046	1.00	0.00	C
ATOM	1797	HD2	PHE	B	144	24.461	129.611	0.155	1.00	0.00	H
ATOM	1798	CE1	PHE	B	144	23.809	133.386	-0.550	1.00	0.00	C
ATOM	1799	HE1	PHE	B	144	23.630	134.433	-0.740	1.00	0.00	H
ATOM	1800	CE2	PHE	B	144	23.529	131.420	0.860	1.00	0.00	C
ATOM	1801	HE2	PHE	B	144	23.124	130.942	1.742	1.00	0.00	H
ATOM	1802	CZ	PHE	B	144	23.287	132.782	0.608	1.00	0.00	C
ATOM	1803	HZ	PHE	B	144	22.698	133.359	1.307	1.00	0.00	H
ATOM	1804	N	GLY	B	145	28.133	130.554	-0.169	1.00	0.00	N
ATOM	1805	H	GLY	B	145	28.044	129.560	-0.384	1.00	0.00	H
ATOM	1806	CA	GLY	B	145	28.729	130.956	1.110	1.00	0.00	C
ATOM	1807	1HA	GLY	B	145	29.589	131.596	0.915	1.00	0.00	H
ATOM	1808	2HA	GLY	B	145	27.991	131.542	1.657	1.00	0.00	H
ATOM	1809	C	GLY	B	145	29.174	129.811	2.025	1.00	0.00	C
ATOM	1810	O	GLY	B	145	30.252	129.918	2.606	1.00	0.00	O
ATOM	1811	N	GLN	B	146	28.396	128.728	2.096	1.00	0.00	N
ATOM	1812	H	GLN	B	146	27.601	128.706	1.470	1.00	0.00	H
ATOM	1813	CA	GLN	B	146	28.505	127.571	3.009	1.00	0.00	C
ATOM	1814	HA	GLN	B	146	28.467	127.934	4.034	1.00	0.00	H
ATOM	1815	C	GLN	B	146	29.799	126.724	2.886	1.00	0.00	C
ATOM	1816	O	GLN	B	146	30.612	126.981	1.992	1.00	0.00	O
ATOM	1817	CB	GLN	B	146	27.244	126.730	2.738	1.00	0.00	C
ATOM	1818	1HB	GLN	B	146	27.059	126.698	1.662	1.00	0.00	H
ATOM	1819	2HB	GLN	B	146	27.361	125.699	3.066	1.00	0.00	H
ATOM	1820	CG	GLN	B	146	26.031	127.343	3.456	1.00	0.00	C
ATOM	1821	1HG	GLN	B	146	26.046	127.055	4.506	1.00	0.00	H
ATOM	1822	2HG	GLN	B	146	26.060	128.431	3.399	1.00	0.00	H
ATOM	1823	CD	GLN	B	146	24.742	126.880	2.807	1.00	0.00	C
ATOM	1824	OE1	GLN	B	146	24.279	127.499	1.861	1.00	0.00	O
ATOM	1825	NE2	GLN	B	146	24.175	125.793	3.271	1.00	0.00	N
ATOM	1826	1HE2	GLN	B	146	23.415	125.376	2.716	1.00	0.00	H
ATOM	1827	2HE2	GLN	B	146	24.548	125.293	4.061	1.00	0.00	H
ATOM	1828	N	PRO	B	147	30.050	125.717	3.755	1.00	0.00	N
ATOM	1829	CA	PRO	B	147	31.197	124.809	3.625	1.00	0.00	C
ATOM	1830	HA	PRO	B	147	32.108	125.384	3.789	1.00	0.00	H
ATOM	1831	C	PRO	B	147	31.279	124.158	2.236	1.00	0.00	C
ATOM	1832	O	PRO	B	147	30.360	123.474	1.782	1.00	0.00	O
ATOM	1833	CB	PRO	B	147	31.081	123.782	4.760	1.00	0.00	C
ATOM	1834	1HB	PRO	B	147	31.255	122.762	4.413	1.00	0.00	H
ATOM	1835	2HB	PRO	B	147	31.789	124.035	5.550	1.00	0.00	H
ATOM	1836	CG	PRO	B	147	29.657	123.947	5.284	1.00	0.00	C
ATOM	1837	1HG	PRO	B	147	28.977	123.313	4.715	1.00	0.00	H
ATOM	1838	2HG	PRO	B	147	29.594	123.721	6.349	1.00	0.00	H
ATOM	1839	CD	PRO	B	147	29.346	125.412	4.995	1.00	0.00	C
ATOM	1840	1HD	PRO	B	147	28.270	125.561	4.943	1.00	0.00	H
ATOM	1841	2HD	PRO	B	147	29.755	126.028	5.796	1.00	0.00	H
ATOM	1842	N	LYS	B	148	32.397	124.397	1.538	1.00	0.00	N
ATOM	1843	H	LYS	B	148	33.144	124.870	2.017	1.00	0.00	H
ATOM	1844	CA	LYS	B	148	32.608	124.027	0.131	1.00	0.00	C
ATOM	1845	HA	LYS	B	148	31.659	124.122	-0.393	1.00	0.00	H
ATOM	1846	C	LYS	B	148	32.994	122.547	-0.007	1.00	0.00	C
ATOM	1847	O	LYS	B	148	34.090	122.244	-0.458	1.00	0.00	O
ATOM	1848	CB	LYS	B	148	33.617	124.963	-0.578	1.00	0.00	C
ATOM	1849	1HB	LYS	B	148	34.604	124.832	-0.145	1.00	0.00	H
ATOM	1850	2HB	LYS	B	148	33.683	124.635	-1.617	1.00	0.00	H
ATOM	1851	CG	LYS	B	148	33.287	126.467	-0.614	1.00	0.00	C
ATOM	1852	1HG	LYS	B	148	33.797	126.900	-1.476	1.00	0.00	H
ATOM	1853	2HG	LYS	B	148	32.221	126.602	-0.766	1.00	0.00	H
ATOM	1854	CD	LYS	B	148	33.752	127.237	0.634	1.00	0.00	C
ATOM	1855	1HD	LYS	B	148	33.308	126.815	1.533	1.00	0.00	H
ATOM	1856	2HD	LYS	B	148	34.834	127.149	0.712	1.00	0.00	H
ATOM	1857	CE	LYS	B	148	33.403	128.727	0.568	1.00	0.00	C
ATOM	1858	1HE	LYS	B	148	33.881	129.224	1.417	1.00	0.00	H
ATOM	1859	2HE	LYS	B	148	33.798	129.152	-0.358	1.00	0.00	H
ATOM	1860	NZ	LYS	B	148	31.944	128.939	0.646	1.00	0.00	N
ATOM	1861	1HZ	LYS	B	148	31.519	128.361	1.369	1.00	0.00	H
ATOM	1862	2HZ	LYS	B	148	31.438	128.638	-0.193	1.00	0.00	H
ATOM	1863	3HZ	LYS	B	148	31.670	129.883	0.865	1.00	0.00	H
ATOM	1864	N	GLY	B	149	32.100	121.644	0.398	1.00	0.00	N
ATOM	1865	H	GLY	B	149	31.263	121.982	0.855	1.00	0.00	H
ATOM	1866	CA	GLY	B	149	32.307	120.202	0.223	1.00	0.00	C
ATOM	1867	1HA	GLY	B	149	32.417	120.000	-0.843	1.00	0.00	H
ATOM	1868	2HA	GLY	B	149	33.244	119.919	0.705	1.00	0.00	H
ATOM	1869	C	GLY	B	149	31.211	119.269	0.749	1.00	0.00	C
ATOM	1870	O	GLY	B	149	31.508	118.101	0.971	1.00	0.00	O
ATOM	1871	N	PHE	B	150	29.981	119.738	1.005	1.00	0.00	N

ATOM	1872	H	PHE	B	150	29.743	120.691	0.787	1.00	0.00	H
ATOM	1873	CA	PHE	B	150	28.885	118.826	1.376	1.00	0.00	C
ATOM	1874	HA	PHE	B	150	29.228	118.246	2.234	1.00	0.00	H
ATOM	1875	C	PHE	B	150	28.581	117.794	0.270	1.00	0.00	C
ATOM	1876	O	PHE	B	150	28.734	118.086	-0.924	1.00	0.00	O
ATOM	1877	CB	PHE	B	150	27.639	119.599	1.838	1.00	0.00	C
ATOM	1878	1HB	PHE	B	150	26.812	118.894	1.939	1.00	0.00	H
ATOM	1879	2HB	PHE	B	150	27.841	119.978	2.840	1.00	0.00	H
ATOM	1880	CG	PHE	B	150	27.180	120.758	0.970	1.00	0.00	C
ATOM	1881	CD1	PHE	B	150	27.318	122.080	1.440	1.00	0.00	C
ATOM	1882	HD1	PHE	B	150	27.780	122.271	2.397	1.00	0.00	H
ATOM	1883	CD2	PHE	B	150	26.547	120.523	-0.266	1.00	0.00	C
ATOM	1884	HD2	PHE	B	150	26.405	119.511	-0.628	1.00	0.00	H
ATOM	1885	CE1	PHE	B	150	26.812	123.156	0.690	1.00	0.00	C
ATOM	1886	HE1	PHE	B	150	26.877	124.162	1.076	1.00	0.00	H
ATOM	1887	CE2	PHE	B	150	26.049	121.603	-1.018	1.00	0.00	C
ATOM	1888	HE2	PHE	B	150	25.526	121.412	-1.944	1.00	0.00	H
ATOM	1889	CZ	PHE	B	150	26.174	122.918	-0.538	1.00	0.00	C
ATOM	1890	HZ	PHE	B	150	25.744	122.739	-1.095	1.00	0.00	H
ATOM	1891	N	ALA	B	151	28.209	116.583	0.695	1.00	0.00	N
ATOM	1892	H	ALA	B	151	28.008	116.460	1.683	1.00	0.00	H
ATOM	1893	CA	ALA	B	151	28.292	115.359	-0.107	1.00	0.00	C
ATOM	1894	HA	ALA	B	151	28.071	115.590	-1.149	1.00	0.00	H
ATOM	1895	C	ALA	B	151	27.318	114.259	0.360	1.00	0.00	C
ATOM	1896	O	ALA	B	151	26.722	114.355	1.437	1.00	0.00	O
ATOM	1897	CB	ALA	B	151	29.737	114.832	0.020	1.00	0.00	C
ATOM	1898	1HB	ALA	B	151	29.928	114.050	-0.713	1.00	0.00	H
ATOM	1899	2HB	ALA	B	151	29.894	114.408	1.008	1.00	0.00	H
ATOM	1900	3HB	ALA	B	151	30.458	115.631	-0.121	1.00	0.00	H
ATOM	1901	N	TYR	B	152	27.266	113.150	-0.382	1.00	0.00	N
ATOM	1902	H	TYR	B	152	27.776	113.139	-1.262	1.00	0.00	H
ATOM	1903	CA	TYR	B	152	26.738	111.868	0.095	1.00	0.00	C
ATOM	1904	HA	TYR	B	152	26.828	111.858	1.180	1.00	0.00	H
ATOM	1905	C	TYR	B	152	27.557	110.675	-0.428	1.00	0.00	C
ATOM	1906	O	TYR	B	152	28.291	110.800	-1.409	1.00	0.00	O
ATOM	1907	CB	TYR	B	152	25.244	111.736	-0.255	1.00	0.00	C
ATOM	1908	1HB	TYR	B	152	24.832	110.892	0.299	1.00	0.00	H
ATOM	1909	2HB	TYR	B	152	24.725	112.626	0.101	1.00	0.00	H
ATOM	1910	CG	TYR	B	152	24.920	111.526	-1.724	1.00	0.00	C
ATOM	1911	CD1	TYR	B	152	24.937	110.227	-2.276	1.00	0.00	C
ATOM	1912	HD1	TYR	B	152	25.201	109.377	-1.660	1.00	0.00	H
ATOM	1913	CD2	TYR	B	152	24.586	112.625	-2.536	1.00	0.00	C
ATOM	1914	HD2	TYR	B	152	24.624	113.627	-2.135	1.00	0.00	H
ATOM	1915	CE1	TYR	B	152	24.648	110.032	-3.641	1.00	0.00	C
ATOM	1916	HE1	TYR	B	152	24.705	109.043	-4.071	1.00	0.00	H
ATOM	1917	CE2	TYR	B	152	24.239	112.428	-3.886	1.00	0.00	C
ATOM	1918	HE2	TYR	B	152	23.973	113.265	-4.516	1.00	0.00	H
ATOM	1919	CZ	TYR	B	152	24.291	111.135	-4.447	1.00	0.00	C
ATOM	1920	OH	TYR	B	152	24.045	110.974	-5.773	1.00	0.00	O
ATOM	1921	HH	TYR	B	152	23.992	110.053	-6.044	1.00	0.00	H
ATOM	1922	N	VAL	B	153	27.409	109.518	0.226	1.00	0.00	N
ATOM	1923	H	VAL	B	153	26.785	109.514	1.027	1.00	0.00	H
ATOM	1924	CA	VAL	B	153	28.009	108.216	-0.144	1.00	0.00	C
ATOM	1925	HA	VAL	B	153	28.227	108.221	-1.211	1.00	0.00	H
ATOM	1926	C	VAL	B	153	27.019	107.069	0.111	1.00	0.00	C
ATOM	1927	O	VAL	B	153	26.004	107.290	0.779	1.00	0.00	O
ATOM	1928	CB	VAL	B	153	29.330	107.944	0.615	1.00	0.00	C
ATOM	1929	HB	VAL	B	153	29.714	106.987	0.275	1.00	0.00	H
ATOM	1930	CG1	VAL	B	153	30.413	108.985	0.330	1.00	0.00	C
ATOM	1931	1HG1	VAL	B	153	30.123	109.965	0.708	1.00	0.00	H
ATOM	1932	2HG1	VAL	B	153	30.558	109.036	-0.743	1.00	0.00	H
ATOM	1933	3HG1	VAL	B	153	31.353	108.679	0.788	1.00	0.00	H
ATOM	1934	CG2	VAL	B	153	29.156	107.867	2.136	1.00	0.00	C
ATOM	1935	1HG2	VAL	B	153	28.797	108.821	2.521	1.00	0.00	H
ATOM	1936	2HG2	VAL	B	153	30.107	107.626	2.605	1.00	0.00	H
ATOM	1937	3HG2	VAL	B	153	28.453	107.075	2.384	1.00	0.00	H
ATOM	1938	N	GLU	B	154	27.289	105.852	-0.378	1.00	0.00	N
ATOM	1939	H	GLU	B	154	28.129	105.715	-0.930	1.00	0.00	H
ATOM	1940	CA	GLU	B	154	26.404	104.685	-0.180	1.00	0.00	C
ATOM	1941	HA	GLU	B	154	25.926	104.803	0.789	1.00	0.00	H
ATOM	1942	C	GLU	B	154	27.109	103.313	-0.124	1.00	0.00	C
ATOM	1943	O	GLU	B	154	28.255	103.175	-0.557	1.00	0.00	O
ATOM	1944	CB	GLU	B	154	25.289	104.688	-1.252	1.00	0.00	C
ATOM	1945	1HB	GLU	B	154	24.563	103.908	-1.022	1.00	0.00	H
ATOM	1946	2HB	GLU	B	154	24.755	105.636	-1.174	1.00	0.00	H
ATOM	1947	CG	GLU	B	154	25.738	104.533	-2.718	1.00	0.00	C
ATOM	1948	1HG	GLU	B	154	24.876	104.748	-3.355	1.00	0.00	H

ATOM	1949	2HG	GLU	B	154	26.497	105.287	-2.941	1.00	0.00	H
ATOM	1950	CD	GLU	B	154	26.261	103.133	-3.076	1.00	0.00	C
ATOM	1951	OE1	GLU	B	154	27.293	103.069	-3.780	1.00	0.00	O
ATOM	1952	OE2	GLU	B	154	25.630	102.133	-2.660	1.00	0.00	O
ATOM	1953	N	PHE	B	155	26.389	102.292	0.366	1.00	0.00	N
ATOM	1954	H	PHE	B	155	25.464	102.499	0.724	1.00	0.00	H
ATOM	1955	CA	PHE	B	155	26.667	100.887	0.038	1.00	0.00	C
ATOM	1956	HA	PHE	B	155	27.129	100.871	-0.952	1.00	0.00	H
ATOM	1957	C	PHE	B	155	25.393	100.025	-0.031	1.00	0.00	C
ATOM	1958	O	PHE	B	155	24.465	100.159	0.780	1.00	0.00	O
ATOM	1959	CB	PHE	B	155	27.653	100.261	1.036	1.00	0.00	C
ATOM	1960	1HB	PHE	B	155	28.420	100.988	1.287	1.00	0.00	H
ATOM	1961	2HB	PHE	B	155	27.130	100.018	1.963	1.00	0.00	H
ATOM	1962	CG	PHE	B	155	28.331	99.016	0.484	1.00	0.00	C
ATOM	1963	CD1	PHE	B	155	29.373	99.142	-0.450	1.00	0.00	C
ATOM	1964	HD1	PHE	B	155	29.696	100.120	-0.759	1.00	0.00	H
ATOM	1965	CD2	PHE	B	155	27.903	97.731	0.863	1.00	0.00	C
ATOM	1966	HD2	PHE	B	155	27.105	97.628	1.576	1.00	0.00	H
ATOM	1967	CE1	PHE	B	155	30.001	98.003	-0.982	1.00	0.00	C
ATOM	1968	HE1	PHE	B	155	30.818	98.110	-1.684	1.00	0.00	H
ATOM	1969	CE2	PHE	B	155	28.527	96.585	0.333	1.00	0.00	C
ATOM	1970	HE2	PHE	B	155	28.224	95.591	0.641	1.00	0.00	H
ATOM	1971	CZ	PHE	B	155	29.578	96.723	-0.589	1.00	0.00	C
ATOM	1972	HZ	PHE	B	155	30.065	95.842	-0.989	1.00	0.00	H
ATOM	1973	N	VAL	B	156	25.382	99.070	-0.965	1.00	0.00	N
ATOM	1974	H	VAL	B	156	26.163	99.055	-1.607	1.00	0.00	H
ATOM	1975	CA	VAL	B	156	24.266	98.145	-1.228	1.00	0.00	C
ATOM	1976	HA	VAL	B	156	23.406	98.743	-1.529	1.00	0.00	H
ATOM	1977	C	VAL	B	156	23.850	97.343	0.013	1.00	0.00	C
ATOM	1978	O	VAL	B	156	22.666	97.327	0.348	1.00	0.00	O
ATOM	1979	CB	VAL	B	156	24.608	97.202	-2.402	1.00	0.00	C
ATOM	1980	HB	VAL	B	156	25.470	96.591	-2.131	1.00	0.00	H
ATOM	1981	CG1	VAL	B	156	23.437	96.272	-2.747	1.00	0.00	C
ATOM	1982	1HG1	VAL	B	156	23.221	95.606	-1.912	1.00	0.00	H
ATOM	1983	2HG1	VAL	B	156	23.702	95.653	-3.606	1.00	0.00	H
ATOM	1984	3HG1	VAL	B	156	22.550	96.856	-2.989	1.00	0.00	H
ATOM	1985	CG2	VAL	B	156	24.952	97.995	-3.672	1.00	0.00	C
ATOM	1986	1HG2	VAL	B	156	24.126	98.651	-3.947	1.00	0.00	H
ATOM	1987	2HG2	VAL	B	156	25.154	97.309	-4.496	1.00	0.00	H
ATOM	1988	3HG2	VAL	B	156	25.847	98.600	-3.521	1.00	0.00	H
ATOM	1989	N	GLU	B	157	24.786	96.729	0.739	1.00	0.00	N
ATOM	1990	H	GLU	B	157	25.746	96.776	0.422	1.00	0.00	H
ATOM	1991	CA	GLU	B	157	24.486	95.901	1.920	1.00	0.00	C
ATOM	1992	HA	GLU	B	157	23.562	95.356	1.721	1.00	0.00	H
ATOM	1993	C	GLU	B	157	24.275	96.693	3.223	1.00	0.00	C
ATOM	1994	O	GLU	B	157	24.847	97.761	3.450	1.00	0.00	O
ATOM	1995	CB	GLU	B	157	25.581	94.860	2.154	1.00	0.00	C
ATOM	1996	1HB	GLU	B	157	26.547	95.350	2.274	1.00	0.00	H
ATOM	1997	2HB	GLU	B	157	25.352	94.334	3.083	1.00	0.00	H
ATOM	1998	CG	GLU	B	157	25.641	93.834	1.021	1.00	0.00	C
ATOM	1999	1HG	GLU	B	157	24.628	93.504	0.776	1.00	0.00	H
ATOM	2000	2HG	GLU	B	157	26.079	94.291	0.130	1.00	0.00	H
ATOM	2001	CD	GLU	B	157	26.471	92.641	1.489	1.00	0.00	C
ATOM	2002	OE1	GLU	B	157	27.704	92.709	1.317	1.00	0.00	O
ATOM	2003	OE2	GLU	B	157	25.853	91.735	2.094	1.00	0.00	O
ATOM	2004	N	ILE	B	158	23.433	96.149	4.109	1.00	0.00	N
ATOM	2005	H	ILE	B	158	23.039	95.248	3.882	1.00	0.00	H
ATOM	2006	CA	ILE	B	158	22.927	96.850	5.300	1.00	0.00	C
ATOM	2007	HA	ILE	B	158	22.609	97.846	4.999	1.00	0.00	H
ATOM	2008	C	ILE	B	158	24.016	97.069	6.362	1.00	0.00	C
ATOM	2009	O	ILE	B	158	24.165	98.195	6.833	1.00	0.00	O
ATOM	2010	CB	ILE	B	158	21.678	96.123	5.865	1.00	0.00	C
ATOM	2011	HB	ILE	B	158	21.878	95.051	5.898	1.00	0.00	H
ATOM	2012	CG1	ILE	B	158	20.402	96.367	5.019	1.00	0.00	C
ATOM	2013	1HG1	ILE	B	158	19.568	95.856	5.503	1.00	0.00	H
ATOM	2014	2HG1	ILE	B	158	20.174	97.434	5.012	1.00	0.00	H
ATOM	2015	CG2	ILE	B	158	21.336	96.578	7.299	1.00	0.00	C
ATOM	2016	1HG2	ILE	B	158	22.127	96.287	7.992	1.00	0.00	H
ATOM	2017	2HG2	ILE	B	158	20.415	96.103	7.638	1.00	0.00	H
ATOM	2018	3HG2	ILE	B	158	21.216	97.662	7.334	1.00	0.00	H
ATOM	2019	CD1	ILE	B	158	20.437	95.875	3.566	1.00	0.00	C
ATOM	2020	1HD1	ILE	B	158	21.093	96.505	2.965	1.00	0.00	H
ATOM	2021	2HD1	ILE	B	158	19.434	95.933	3.143	1.00	0.00	H
ATOM	2022	3HD1	ILE	B	158	20.778	94.840	3.528	1.00	0.00	H
ATOM	2023	N	ASP	B	159	24.766	96.034	6.759	1.00	0.00	N
ATOM	2024	H	ASP	B	159	24.651	95.129	6.331	1.00	0.00	H
ATOM	2025	CA	ASP	B	159	25.735	96.184	7.860	1.00	0.00	C

ATOM	2026	HA	ASP	B	159	25.230	96.728	8.655	1.00	0.00	H
ATOM	2027	C	ASP	B	159	26.976	97.004	7.463	1.00	0.00	C
ATOM	2028	O	ASP	B	159	27.538	97.731	8.280	1.00	0.00	O
ATOM	2029	CB	ASP	B	159	26.140	94.826	8.445	1.00	0.00	C
ATOM	2030	1HB	ASP	B	159	25.248	94.212	8.579	1.00	0.00	H
ATOM	2031	2HB	ASP	B	159	26.815	94.314	7.757	1.00	0.00	H
ATOM	2032	CG	ASP	B	159	26.806	95.024	9.814	1.00	0.00	C
ATOM	2033	OD1	ASP	B	159	27.975	94.624	9.977	1.00	0.00	O
ATOM	2034	OD2	ASP	B	159	26.126	95.594	10.698	1.00	0.00	O
ATOM	2035	N	ALA	B	160	27.348	96.970	6.182	1.00	0.00	N
ATOM	2036	H	ALA	B	160	26.861	96.347	5.559	1.00	0.00	H
ATOM	2037	CA	ALA	B	160	28.397	97.810	5.614	1.00	0.00	C
ATOM	2038	HA	ALA	B	160	29.358	97.548	6.060	1.00	0.00	H
ATOM	2039	C	ALA	B	160	28.145	99.304	5.876	1.00	0.00	C
ATOM	2040	O	ALA	B	160	28.946	99.967	6.537	1.00	0.00	O
ATOM	2041	CB	ALA	B	160	28.445	97.508	4.120	1.00	0.00	C
ATOM	2042	1HB	ALA	B	160	29.105	98.223	3.632	1.00	0.00	H
ATOM	2043	2HB	ALA	B	160	27.449	97.609	3.699	1.00	0.00	H
ATOM	2044	3HB	ALA	B	160	28.809	96.494	3.949	1.00	0.00	H
ATOM	2045	N	VAL	B	161	26.980	99.822	5.457	1.00	0.00	N
ATOM	2046	H	VAL	B	161	26.361	99.238	4.910	1.00	0.00	H
ATOM	2047	CA	VAL	B	161	26.601	101.214	5.750	1.00	0.00	C
ATOM	2048	HA	VAL	B	161	27.462	101.825	5.486	1.00	0.00	H
ATOM	2049	C	VAL	B	161	26.355	101.452	7.248	1.00	0.00	C
ATOM	2050	O	VAL	B	161	26.665	102.534	7.740	1.00	0.00	O
ATOM	2051	CB	VAL	B	161	25.448	101.703	4.850	1.00	0.00	C
ATOM	2052	HB	VAL	B	161	25.726	101.494	3.816	1.00	0.00	H
ATOM	2053	CG1	VAL	B	161	24.116	100.999	5.119	1.00	0.00	C
ATOM	2054	1HG1	VAL	B	161	23.783	101.183	6.140	1.00	0.00	H
ATOM	2055	2HG1	VAL	B	161	24.241	99.930	4.961	1.00	0.00	H
ATOM	2056	3HG1	VAL	B	161	23.371	101.381	4.425	1.00	0.00	H
ATOM	2057	CG2	VAL	B	161	25.239	103.218	4.963	1.00	0.00	C
ATOM	2058	1HG2	VAL	B	161	24.895	103.488	5.961	1.00	0.00	H
ATOM	2059	2HG2	VAL	B	161	24.497	103.540	4.234	1.00	0.00	H
ATOM	2060	3HG2	VAL	B	161	26.177	103.733	4.751	1.00	0.00	H
ATOM	2061	N	GLN	B	162	25.880	100.455	8.009	1.00	0.00	N
ATOM	2062	H	GLN	B	162	25.643	99.578	7.558	1.00	0.00	H
ATOM	2063	CA	GLN	B	162	25.751	100.539	9.475	1.00	0.00	C
ATOM	2064	HA	GLN	B	162	25.120	101.397	9.701	1.00	0.00	H
ATOM	2065	C	GLN	B	162	27.098	100.778	10.191	1.00	0.00	C
ATOM	2066	O	GLN	B	162	27.128	101.489	11.197	1.00	0.00	O
ATOM	2067	CB	GLN	B	162	25.033	99.281	9.998	1.00	0.00	C
ATOM	2068	1HB	GLN	B	162	24.108	99.150	9.435	1.00	0.00	H
ATOM	2069	2HB	GLN	B	162	25.670	98.417	9.835	1.00	0.00	H
ATOM	2070	CG	GLN	B	162	24.691	99.331	11.494	1.00	0.00	C
ATOM	2071	1HG	GLN	B	162	25.606	99.219	12.076	1.00	0.00	H
ATOM	2072	2HG	GLN	B	162	24.245	100.298	11.728	1.00	0.00	H
ATOM	2073	CD	GLN	B	162	23.709	98.234	11.903	1.00	0.00	C
ATOM	2074	OE1	GLN	B	162	22.587	98.496	12.313	1.00	0.00	O
ATOM	2075	NE2	GLN	B	162	24.061	96.971	11.828	1.00	0.00	N
ATOM	2076	1HE2	GLN	B	162	23.385	96.283	12.076	1.00	0.00	H
ATOM	2077	2HE2	GLN	B	162	24.971	96.670	11.449	1.00	0.00	H
ATOM	2078	N	ASN	B	163	28.206	100.255	9.655	1.00	0.00	N
ATOM	2079	H	ASN	B	163	28.097	99.615	8.874	1.00	0.00	H
ATOM	2080	CA	ASN	B	163	29.568	100.549	10.116	1.00	0.00	C
ATOM	2081	HA	ASN	B	163	29.566	100.680	11.200	1.00	0.00	H
ATOM	2082	C	ASN	B	163	30.122	101.861	9.513	1.00	0.00	C
ATOM	2083	O	ASN	B	163	30.695	102.684	10.235	1.00	0.00	O
ATOM	2084	CB	ASN	B	163	30.463	99.338	9.790	1.00	0.00	C
ATOM	2085	1HB	ASN	B	163	30.302	99.006	8.764	1.00	0.00	H
ATOM	2086	2HB	ASN	B	163	31.509	99.627	9.887	1.00	0.00	H
ATOM	2087	CG	ASN	B	163	30.235	98.182	10.753	1.00	0.00	C
ATOM	2088	OD1	ASN	B	163	30.723	98.182	11.874	1.00	0.00	O
ATOM	2089	ND2	ASN	B	163	29.468	97.196	10.351	1.00	0.00	N
ATOM	2090	1HD2	ASN	B	163	29.319	96.382	10.929	1.00	0.00	H
ATOM	2091	2HD2	ASN	B	163	28.980	97.240	9.467	1.00	0.00	H
ATOM	2092	N	ALA	B	164	29.891	102.123	8.219	1.00	0.00	N
ATOM	2093	H	ALA	B	164	29.456	101.401	7.652	1.00	0.00	H
ATOM	2094	CA	ALA	B	164	30.350	103.342	7.538	1.00	0.00	C
ATOM	2095	HA	ALA	B	164	31.421	103.445	7.722	1.00	0.00	H
ATOM	2096	C	ALA	B	164	29.675	104.639	8.036	1.00	0.00	C
ATOM	2097	O	ALA	B	164	30.272	105.714	7.953	1.00	0.00	O
ATOM	2098	CB	ALA	B	164	30.156	103.176	6.026	1.00	0.00	C
ATOM	2099	1HB	ALA	B	164	30.660	103.988	5.501	1.00	0.00	H
ATOM	2100	2HB	ALA	B	164	29.097	103.202	5.778	1.00	0.00	H
ATOM	2101	3HB	ALA	B	164	30.585	102.230	5.690	1.00	0.00	H
ATOM	2102	N	LEU	B	165	28.457	104.568	8.592	1.00	0.00	N

ATOM	2103	H	LEU	B	165	27.967	103.679	8.532	1.00	0.00	H
ATOM	2104	CA	LEU	B	165	27.763	105.706	9.218	1.00	0.00	C
ATOM	2105	HA	LEU	B	165	28.008	106.589	8.628	1.00	0.00	C
ATOM	2106	C	LEU	B	165	28.232	106.009	10.653	1.00	0.00	C
ATOM	2107	O	LEU	B	165	27.828	107.036	11.209	1.00	0.00	O
ATOM	2108	CB	LEU	B	165	26.232	105.529	9.100	1.00	0.00	C
ATOM	2109	1HB	LEU	B	165	25.759	106.499	9.255	1.00	0.00	H
ATOM	2110	2HB	LEU	B	165	26.037	105.243	8.067	1.00	0.00	H
ATOM	2111	CG	LEU	B	165	25.538	104.496	10.016	1.00	0.00	C
ATOM	2112	HG	LEU	B	165	26.160	103.611	10.101	1.00	0.00	H
ATOM	2113	CD1	LEU	B	165	25.213	105.019	11.421	1.00	0.00	C
ATOM	2114	1HD1	LEU	B	165	26.125	105.229	11.970	1.00	0.00	H
ATOM	2115	2HD1	LEU	B	165	24.667	104.256	11.975	1.00	0.00	H
ATOM	2116	3HD1	LEU	B	165	24.613	105.926	11.355	1.00	0.00	H
ATOM	2117	CD2	LEU	B	165	24.189	104.101	9.403	1.00	0.00	C
ATOM	2118	1HD2	LEU	B	165	23.549	104.976	9.298	1.00	0.00	H
ATOM	2119	2HD2	LEU	B	165	23.698	103.358	10.031	1.00	0.00	H
ATOM	2120	3HD2	LEU	B	165	24.351	103.659	8.420	1.00	0.00	H
ATOM	2121	N	LEU	B	166	29.081	105.154	11.242	1.00	0.00	N
ATOM	2122	H	LEU	B	166	29.403	104.362	10.696	1.00	0.00	H
ATOM	2123	CA	LEU	B	166	29.295	105.091	12.693	1.00	0.00	C
ATOM	2124	HA	LEU	B	166	28.721	105.890	13.162	1.00	0.00	C
ATOM	2125	C	LEU	B	166	30.747	105.292	13.157	1.00	0.00	H
ATOM	2126	O	LEU	B	166	30.936	105.739	14.286	1.00	0.00	O
ATOM	2127	CB	LEU	B	166	28.717	103.746	13.179	1.00	0.00	C
ATOM	2128	1HB	LEU	B	166	27.677	103.679	12.857	1.00	0.00	H
ATOM	2129	2HB	LEU	B	166	29.257	102.940	12.681	1.00	0.00	H
ATOM	2130	CG	LEU	B	166	28.766	103.491	14.698	1.00	0.00	C
ATOM	2131	HG	LEU	B	166	29.799	103.463	15.036	1.00	0.00	H
ATOM	2132	CD1	LEU	B	166	28.014	104.552	15.508	1.00	0.00	C
ATOM	2133	1HD1	LEU	B	166	28.512	105.515	15.401	1.00	0.00	H
ATOM	2134	2HD1	LEU	B	166	28.024	104.280	16.563	1.00	0.00	H
ATOM	2135	3HD1	LEU	B	166	26.987	104.629	15.156	1.00	0.00	H
ATOM	2136	CD2	LEU	B	166	28.131	102.133	15.003	1.00	0.00	C
ATOM	2137	1HD2	LEU	B	166	28.206	101.916	16.067	1.00	0.00	H
ATOM	2138	2HD2	LEU	B	166	28.658	101.356	14.447	1.00	0.00	H
ATOM	2139	3HD2	LEU	B	166	27.085	102.130	14.695	1.00	0.00	H
ATOM	2140	N	LEU	B	167	31.769	105.019	12.339	1.00	0.00	N
ATOM	2141	H	LEU	B	167	31.567	104.586	11.445	1.00	0.00	H
ATOM	2142	CA	LEU	B	167	33.173	105.041	12.800	1.00	0.00	C
ATOM	2143	HA	LEU	B	167	33.215	105.493	13.790	1.00	0.00	H
ATOM	2144	C	LEU	B	167	34.057	105.997	11.971	1.00	0.00	C
ATOM	2145	O	LEU	B	167	35.221	105.752	11.696	1.00	0.00	O
ATOM	2146	CB	LEU	B	167	33.646	103.583	12.986	1.00	0.00	C
ATOM	2147	1HB	LEU	B	167	33.417	103.020	12.085	1.00	0.00	H
ATOM	2148	2HB	LEU	B	167	34.727	103.574	13.130	1.00	0.00	H
ATOM	2149	CG	LEU	B	167	32.951	102.938	14.218	1.00	0.00	C
ATOM	2150	HG	LEU	B	167	32.354	103.691	14.722	1.00	0.00	H
ATOM	2151	CD1	LEU	B	167	31.986	101.797	13.886	1.00	0.00	C
ATOM	2152	1HD1	LEU	B	167	31.299	101.641	14.713	1.00	0.00	H
ATOM	2153	2HD1	LEU	B	167	32.524	100.874	13.720	1.00	0.00	H
ATOM	2154	3HD1	LEU	B	167	31.425	102.030	12.982	1.00	0.00	H
ATOM	2155	CD2	LEU	B	167	33.947	102.469	15.275	1.00	0.00	C
ATOM	2156	1HD2	LEU	B	167	33.410	102.096	16.145	1.00	0.00	H
ATOM	2157	2HD2	LEU	B	167	34.582	103.304	15.570	1.00	0.00	H
ATOM	2158	3HD2	LEU	B	167	34.572	101.674	14.869	1.00	0.00	H
ATOM	2159	N	ASN	B	168	33.472	107.141	11.612	1.00	0.00	N
ATOM	2160	H	ASN	B	168	32.544	107.283	11.990	1.00	0.00	H
ATOM	2161	CA	ASN	B	168	33.803	107.975	10.451	1.00	0.00	C
ATOM	2162	HA	ASN	B	168	34.685	107.575	9.945	1.00	0.00	H
ATOM	2163	C	ASN	B	168	34.084	109.470	10.752	1.00	0.00	C
ATOM	2164	O	ASN	B	168	34.987	110.075	10.178	1.00	0.00	O
ATOM	2165	CB	ASN	B	168	32.579	107.847	9.511	1.00	0.00	C
ATOM	2166	1HB	ASN	B	168	32.712	108.507	8.655	1.00	0.00	H
ATOM	2167	2HB	ASN	B	168	32.535	106.827	9.129	1.00	0.00	H
ATOM	2168	CG	ASN	B	168	31.225	108.167	10.157	1.00	0.00	C
ATOM	2169	OD1	ASN	B	168	31.084	108.494	11.326	1.00	0.00	O
ATOM	2170	ND2	ASN	B	168	30.153	108.053	9.431	1.00	0.00	N
ATOM	2171	1HD2	ASN	B	168	29.285	108.146	9.932	1.00	0.00	H
ATOM	2172	2HD2	ASN	B	168	30.220	107.525	8.563	1.00	0.00	H
ATOM	2173	N	GLU	B	169	33.297	110.113	11.615	1.00	0.00	N
ATOM	2174	H	GLU	B	169	32.557	109.560	12.037	1.00	0.00	H
ATOM	2175	CA	GLU	B	169	33.104	111.572	11.615	1.00	0.00	C
ATOM	2176	HA	GLU	B	169	33.208	111.906	10.582	1.00	0.00	H
ATOM	2177	C	GLU	B	169	34.151	112.390	12.404	1.00	0.00	C
ATOM	2178	O	GLU	B	169	33.829	113.424	13.000	1.00	0.00	O
ATOM	2179	CB	GLU	B	169	31.659	111.894	12.029	1.00	0.00	C

ATOM	2180	1HB	GLU	B	169	31.528	112.971	11.954	1.00	0.00	H
ATOM	2181	2HB	GLU	B	169	30.977	111.435	11.312	1.00	0.00	H
ATOM	2182	CG	GLU	B	169	31.264	111.438	13.445	1.00	0.00	C
ATOM	2183	1HG	GLU	B	169	31.091	110.361	13.449	1.00	0.00	H
ATOM	2184	2HG	GLU	B	169	32.082	111.653	14.135	1.00	0.00	H
ATOM	2185	CD	GLU	B	169	30.004	112.170	13.922	1.00	0.00	C
ATOM	2186	OE1	GLU	B	169	29.089	112.382	13.092	1.00	0.00	O
ATOM	2187	OE2	GLU	B	169	30.001	112.643	15.087	1.00	0.00	O
ATOM	2188	N	THR	B	170	35.406	111.937	12.429	1.00	0.00	N
ATOM	2189	H	THR	B	170	35.595	111.083	11.916	1.00	0.00	H
ATOM	2190	CA	THR	B	170	36.460	112.509	13.294	1.00	0.00	C
ATOM	2191	HA	THR	B	170	36.152	113.508	13.592	1.00	0.00	H
ATOM	2192	C	THR	B	170	37.816	112.707	12.594	1.00	0.00	C
ATOM	2193	O	THR	B	170	38.636	113.459	13.114	1.00	0.00	O
ATOM	2194	CB	THR	B	170	36.581	111.697	14.599	1.00	0.00	C
ATOM	2195	HB	THR	B	170	37.003	110.717	14.373	1.00	0.00	H
ATOM	2196	OG1	THR	B	170	35.307	111.511	15.180	1.00	0.00	O
ATOM	2197	HG1	THR	B	170	34.921	112.383	15.366	1.00	0.00	H
ATOM	2198	CG2	THR	B	170	37.420	112.361	15.692	1.00	0.00	C
ATOM	2199	1HG2	THR	B	170	38.472	112.352	15.410	1.00	0.00	H
ATOM	2200	2HG2	THR	B	170	37.311	111.808	16.625	1.00	0.00	H
ATOM	2201	3HG2	THR	B	170	37.095	113.390	15.843	1.00	0.00	H
ATOM	2202	N	GLU	B	171	38.042	112.162	11.390	1.00	0.00	N
ATOM	2203	H	GLU	B	171	37.360	111.542	10.974	1.00	0.00	H
ATOM	2204	CA	GLU	B	171	39.194	112.540	10.546	1.00	0.00	C
ATOM	2205	HA	GLU	B	171	39.423	113.581	10.754	1.00	0.00	H
ATOM	2206	C	GLU	B	171	38.865	112.421	9.048	1.00	0.00	C
ATOM	2207	O	GLU	B	171	38.453	111.363	8.573	1.00	0.00	O
ATOM	2208	CB	GLU	B	171	40.449	111.721	10.912	1.00	0.00	C
ATOM	2209	1HB	GLU	B	171	40.358	111.380	11.944	1.00	0.00	H
ATOM	2210	2HB	GLU	B	171	40.526	110.834	10.281	1.00	0.00	H
ATOM	2211	CG	GLU	B	171	41.750	112.541	10.830	1.00	0.00	C
ATOM	2212	1HG	GLU	B	171	41.632	113.455	11.418	1.00	0.00	H
ATOM	2213	2HG	GLU	B	171	42.544	111.962	11.310	1.00	0.00	H
ATOM	2214	CD	GLU	B	171	42.192	112.897	9.402	1.00	0.00	C
ATOM	2215	OE1	GLU	B	171	42.965	112.114	8.814	1.00	0.00	O
ATOM	2216	OE2	GLU	B	171	41.819	113.989	8.913	1.00	0.00	O
ATOM	2217	N	LEU	B	172	39.039	113.520	8.312	1.00	0.00	N
ATOM	2218	H	LEU	B	172	39.471	114.316	8.776	1.00	0.00	H
ATOM	2219	CA	LEU	B	172	38.937	113.594	6.855	1.00	0.00	C
ATOM	2220	HA	LEU	B	172	39.228	112.632	6.440	1.00	0.00	H
ATOM	2221	C	LEU	B	172	39.895	114.684	6.346	1.00	0.00	C
ATOM	2222	O	LEU	B	172	39.800	115.835	6.788	1.00	0.00	O
ATOM	2223	CB	LEU	B	172	37.478	113.911	6.445	1.00	0.00	C
ATOM	2224	1HB	LEU	B	172	36.804	113.567	7.231	1.00	0.00	H
ATOM	2225	2HB	LEU	B	172	37.354	114.992	6.381	1.00	0.00	H
ATOM	2226	CG	LEU	B	172	37.001	113.287	5.115	1.00	0.00	C
ATOM	2227	HG	LEU	B	172	36.132	113.842	4.772	1.00	0.00	H
ATOM	2228	CD1	LEU	B	172	38.025	113.345	3.984	1.00	0.00	C
ATOM	2229	1HD1	LEU	B	172	38.884	112.720	4.208	1.00	0.00	H
ATOM	2230	2HD1	LEU	B	172	38.339	114.373	3.832	1.00	0.00	H
ATOM	2231	3HD1	LEU	B	172	37.584	112.982	3.059	1.00	0.00	H
ATOM	2232	CD2	LEU	B	172	36.564	111.845	5.347	1.00	0.00	C
ATOM	2233	1HD2	LEU	B	172	36.272	111.376	4.407	1.00	0.00	H
ATOM	2234	2HD2	LEU	B	172	35.713	111.819	6.025	1.00	0.00	H
ATOM	2235	3HD2	LEU	B	172	37.379	111.285	5.799	1.00	0.00	H
ATOM	2236	N	HIS	B	173	40.773	114.365	5.386	1.00	0.00	N
ATOM	2237	H	HIS	B	173	40.832	113.394	5.089	1.00	0.00	H
ATOM	2238	CA	HIS	B	173	41.633	115.343	4.694	1.00	0.00	C
ATOM	2239	HA	HIS	B	173	42.286	114.777	4.028	1.00	0.00	H
ATOM	2240	C	HIS	B	173	42.574	116.127	5.656	1.00	0.00	C
ATOM	2241	O	HIS	B	173	43.063	117.214	5.336	1.00	0.00	O
ATOM	2242	CB	HIS	B	173	40.710	116.203	3.788	1.00	0.00	C
ATOM	2243	1HB	HIS	B	173	40.172	115.523	3.128	1.00	0.00	H
ATOM	2244	2HB	HIS	B	173	39.970	116.714	4.403	1.00	0.00	H
ATOM	2245	CG	HIS	B	173	41.354	117.236	2.898	1.00	0.00	C
ATOM	2246	ND1	HIS	B	173	42.116	116.996	1.785	1.00	0.00	N
ATOM	2247	HD1	HIS	B	173	42.233	116.068	1.350	1.00	0.00	H
ATOM	2248	CD2	HIS	B	173	41.141	118.584	2.939	1.00	0.00	C
ATOM	2249	HD2	HIS	B	173	40.508	119.091	3.652	1.00	0.00	H
ATOM	2250	CE1	HIS	B	173	42.380	118.166	1.187	1.00	0.00	C
ATOM	2251	HE1	HIS	B	173	42.871	118.263	0.226	1.00	0.00	H
ATOM	2252	NE2	HIS	B	173	41.875	119.188	1.905	1.00	0.00	N
ATOM	2253	N	GLY	B	174	42.840	115.624	6.869	1.00	0.00	N
ATOM	2254	H	GLY	B	174	42.397	114.747	7.149	1.00	0.00	H
ATOM	2255	CA	GLY	B	174	43.630	116.297	7.913	1.00	0.00	C
ATOM	2256	1HA	GLY	B	174	44.030	115.526	8.572	1.00	0.00	H

ATOM	2257	2HA	GLY	B	174	44.461	116.835	7.461	1.00	0.00	H
ATOM	2258	C	GLY	B	174	42.818	117.271	8.781	1.00	0.00	C
ATOM	2259	O	GLY	B	174	43.382	118.219	9.339	1.00	0.00	O
ATOM	2260	N	ARG	B	175	41.493	117.103	8.831	1.00	0.00	N
ATOM	2261	H	ARG	B	175	41.148	116.238	8.410	1.00	0.00	H
ATOM	2262	CA	ARG	B	175	40.486	117.939	9.515	1.00	0.00	C
ATOM	2263	HA	ARG	B	175	40.953	118.468	10.343	1.00	0.00	H
ATOM	2264	C	ARG	B	175	39.398	117.019	10.109	1.00	0.00	C
ATOM	2265	O	ARG	B	175	39.524	115.806	10.050	1.00	0.00	O
ATOM	2266	CB	ARG	B	175	39.871	118.954	8.519	1.00	0.00	C
ATOM	2267	1HB	ARG	B	175	39.433	118.414	7.677	1.00	0.00	H
ATOM	2268	2HB	ARG	B	175	39.050	119.463	9.025	1.00	0.00	H
ATOM	2269	CG	ARG	B	175	40.789	120.071	7.984	1.00	0.00	C
ATOM	2270	1HG	ARG	B	175	40.131	120.866	7.632	1.00	0.00	H
ATOM	2271	2HG	ARG	B	175	41.390	120.478	8.797	1.00	0.00	H
ATOM	2272	CD	ARG	B	175	41.708	119.665	6.818	1.00	0.00	C
ATOM	2273	1HD	ARG	B	175	42.676	119.352	7.206	1.00	0.00	H
ATOM	2274	2HD	ARG	B	175	41.254	118.822	6.292	1.00	0.00	H
ATOM	2275	NE	ARG	B	175	41.897	120.772	5.860	1.00	0.00	N
ATOM	2276	HE	ARG	B	175	41.237	121.548	5.927	1.00	0.00	H
ATOM	2277	CZ	ARG	B	175	42.553	120.703	4.718	1.00	0.00	C
ATOM	2278	NH1	ARG	B	175	43.402	119.759	4.442	1.00	0.00	N
ATOM	2279	1HH1	ARG	B	175	43.396	118.946	5.053	1.00	0.00	H
ATOM	2280	2HH1	ARG	B	175	43.519	119.547	3.465	1.00	0.00	H
ATOM	2281	NH2	ARG	B	175	42.307	121.544	3.760	1.00	0.00	N
ATOM	2282	1HH2	ARG	B	175	41.446	122.094	3.841	1.00	0.00	H
ATOM	2283	2HH2	ARG	B	175	42.500	121.203	2.834	1.00	0.00	H
ATOM	2284	N	GLN	B	176	38.308	117.564	10.659	1.00	0.00	N
ATOM	2285	H	GLN	B	176	38.197	118.563	10.624	1.00	0.00	H
ATOM	2286	CA	GLN	B	176	37.110	116.768	10.980	1.00	0.00	C
ATOM	2287	HA	GLN	B	176	37.183	115.819	10.444	1.00	0.00	H
ATOM	2288	C	GLN	B	176	35.838	117.441	10.448	1.00	0.00	C
ATOM	2289	O	GLN	B	176	35.833	118.637	10.151	1.00	0.00	O
ATOM	2290	CB	GLN	B	176	37.039	116.404	12.480	1.00	0.00	C
ATOM	2291	1HB	GLN	B	176	36.392	115.531	12.572	1.00	0.00	H
ATOM	2292	2HB	GLN	B	176	38.034	116.114	12.821	1.00	0.00	H
ATOM	2293	CG	GLN	B	176	36.487	117.497	13.412	1.00	0.00	C
ATOM	2294	1HG	GLN	B	176	37.078	118.404	13.285	1.00	0.00	H
ATOM	2295	2HG	GLN	B	176	35.454	117.716	13.139	1.00	0.00	H
ATOM	2296	CD	GLN	B	176	36.508	117.099	14.892	1.00	0.00	C
ATOM	2297	OE1	GLN	B	176	37.100	117.778	15.718	1.00	0.00	O
ATOM	2298	NE2	GLN	B	176	35.840	116.032	15.282	1.00	0.00	N
ATOM	2299	1HE2	GLN	B	176	35.874	115.744	16.257	1.00	0.00	H
ATOM	2300	2HE2	GLN	B	176	35.350	115.436	14.638	1.00	0.00	H
ATOM	2301	N	LEU	B	177	34.775	116.647	10.330	1.00	0.00	N
ATOM	2302	H	LEU	B	177	34.849	115.709	10.699	1.00	0.00	H
ATOM	2303	CA	LEU	B	177	33.501	116.969	9.680	1.00	0.00	C
ATOM	2304	HA	LEU	B	177	33.316	118.041	9.752	1.00	0.00	H
ATOM	2305	C	LEU	B	177	32.347	116.259	10.411	1.00	0.00	C
ATOM	2306	O	LEU	B	177	32.571	115.721	11.498	1.00	0.00	O
ATOM	2307	CB	LEU	B	177	33.614	116.604	8.182	1.00	0.00	C
ATOM	2308	1HB	LEU	B	177	32.663	116.808	7.698	1.00	0.00	H
ATOM	2309	2HB	LEU	B	177	34.336	117.292	7.739	1.00	0.00	H
ATOM	2310	CG	LEU	B	177	34.052	115.170	7.810	1.00	0.00	C
ATOM	2311	HG	LEU	B	177	35.059	114.991	8.185	1.00	0.00	H
ATOM	2312	CD1	LEU	B	177	33.139	114.056	8.327	1.00	0.00	C
ATOM	2313	1HD1	LEU	B	177	32.112	114.234	8.006	1.00	0.00	H
ATOM	2314	2HD1	LEU	B	177	33.192	113.996	9.411	1.00	0.00	H
ATOM	2315	3HD1	LEU	B	177	33.471	113.095	7.931	1.00	0.00	H
ATOM	2316	CD2	LEU	B	177	34.076	115.068	6.288	1.00	0.00	C
ATOM	2317	1HD2	LEU	B	177	33.109	115.349	5.879	1.00	0.00	H
ATOM	2318	2HD2	LEU	B	177	34.289	114.043	5.989	1.00	0.00	H
ATOM	2319	3HD2	LEU	B	177	34.843	115.728	5.882	1.00	0.00	H
ATOM	2320	N	LYS	B	178	31.132	116.216	9.844	1.00	0.00	N
ATOM	2321	H	LYS	B	178	30.993	116.665	8.940	1.00	0.00	H
ATOM	2322	CA	LYS	B	178	30.036	115.381	10.371	1.00	0.00	C
ATOM	2323	HA	LYS	B	178	30.479	114.584	10.959	1.00	0.00	H
ATOM	2324	C	LYS	B	178	29.277	114.633	9.275	1.00	0.00	C
ATOM	2325	O	LYS	B	178	29.276	115.044	8.118	1.00	0.00	O
ATOM	2326	CB	LYS	B	178	29.096	116.216	11.273	1.00	0.00	C
ATOM	2327	1HB	LYS	B	178	28.743	117.080	10.707	1.00	0.00	H
ATOM	2328	2HB	LYS	B	178	28.225	115.615	11.539	1.00	0.00	H
ATOM	2329	CG	LYS	B	178	29.749	116.714	12.581	1.00	0.00	C
ATOM	2330	1HG	LYS	B	178	30.640	117.293	12.343	1.00	0.00	H
ATOM	2331	2HG	LYS	B	178	29.053	117.389	13.075	1.00	0.00	H
ATOM	2332	CD	LYS	B	178	30.103	115.561	13.543	1.00	0.00	C
ATOM	2333	1HD	LYS	B	178	29.243	115.329	14.171	1.00	0.00	H



ATOM	2334	2HD	LYS	B	178	30.315	114.673	12.963	1.00	0.00	H
ATOM	2335	CE	LYS	B	178	31.330	115.828	14.425	1.00	0.00	C
ATOM	2336	1HE	LYS	B	178	32.046	116.429	13.859	1.00	0.00	H
ATOM	2337	2HE	LYS	B	178	31.010	116.385	15.308	1.00	0.00	H
ATOM	2338	NZ	LYS	B	178	31.975	114.545	14.806	1.00	0.00	N
ATOM	2339	1HZ	LYS	B	178	32.445	114.128	14.004	1.00	0.00	H
ATOM	2340	2HZ	LYS	B	178	31.284	113.866	15.129	1.00	0.00	H
ATOM	2341	3HZ	LYS	B	178	32.711	114.617	15.509	1.00	0.00	H
ATOM	2342	N	VAL	B	179	28.645	113.524	9.663	1.00	0.00	N
ATOM	2343	H	VAL	B	179	28.672	113.284	10.647	1.00	0.00	H
ATOM	2344	CA	VAL	B	179	27.973	112.557	8.772	1.00	0.00	C
ATOM	2345	HA	VAL	B	179	27.858	112.995	7.782	1.00	0.00	H
ATOM	2346	C	VAL	B	179	26.579	112.256	9.335	1.00	0.00	C
ATOM	2347	O	VAL	B	179	26.363	112.376	10.540	1.00	0.00	O
ATOM	2348	CB	VAL	B	179	28.816	111.264	8.641	1.00	0.00	C
ATOM	2349	HB	VAL	B	179	28.866	110.779	9.617	1.00	0.00	H
ATOM	2350	CG1	VAL	B	179	28.221	110.267	7.636	1.00	0.00	C
ATOM	2351	1HG1	VAL	B	179	28.102	110.737	6.661	1.00	0.00	H
ATOM	2352	2HG1	VAL	B	179	27.260	109.892	7.982	1.00	0.00	H
ATOM	2353	3HG1	VAL	B	179	28.887	109.414	7.514	1.00	0.00	H
ATOM	2354	CG2	VAL	B	179	30.253	111.556	8.181	1.00	0.00	C
ATOM	2355	1HG2	VAL	B	179	30.779	112.155	8.921	1.00	0.00	H
ATOM	2356	2HG2	VAL	B	179	30.237	112.083	7.228	1.00	0.00	H
ATOM	2357	3HG2	VAL	B	179	30.802	110.621	8.057	1.00	0.00	H
ATOM	2358	N	SER	B	180	25.593	111.913	8.508	1.00	0.00	N
ATOM	2359	H	SER	B	180	25.797	111.852	7.511	1.00	0.00	H
ATOM	2360	CA	SER	B	180	24.222	111.584	8.947	1.00	0.00	C
ATOM	2361	HA	SER	B	180	24.266	111.015	9.876	1.00	0.00	H
ATOM	2362	C	SER	B	180	23.483	110.715	7.931	1.00	0.00	C
ATOM	2363	O	SER	B	180	23.970	110.500	6.829	1.00	0.00	O
ATOM	2364	CB	SER	B	180	23.433	112.877	9.200	1.00	0.00	C
ATOM	2365	1HB	SER	B	180	23.641	113.604	8.413	1.00	0.00	H
ATOM	2366	2HB	SER	B	180	22.360	112.679	9.224	1.00	0.00	H
ATOM	2367	OG	SER	B	180	23.827	113.382	10.459	1.00	0.00	O
ATOM	2368	HG	SER	B	180	24.772	113.168	10.559	1.00	0.00	H
ATOM	2369	N	ALA	B	181	22.301	110.209	8.287	1.00	0.00	N
ATOM	2370	H	ALA	B	181	21.926	110.432	9.193	1.00	0.00	H
ATOM	2371	CA	ALA	B	181	21.416	109.550	7.325	1.00	0.00	C
ATOM	2372	HA	ALA	B	181	21.939	108.694	6.898	1.00	0.00	H
ATOM	2373	C	ALA	B	181	21.024	110.486	6.161	1.00	0.00	C
ATOM	2374	O	ALA	B	181	21.055	111.711	6.300	1.00	0.00	O
ATOM	2375	CB	ALA	B	181	20.182	109.035	8.076	1.00	0.00	C
ATOM	2376	1HB	ALA	B	181	20.486	108.355	8.871	1.00	0.00	H
ATOM	2377	2HB	ALA	B	181	19.532	108.497	7.382	1.00	0.00	H
ATOM	2378	3HB	ALA	B	181	19.628	109.874	8.500	1.00	0.00	H
ATOM	2379	N	LYS	B	182	20.603	109.888	5.045	1.00	0.00	N
ATOM	2380	H	LYS	B	182	20.576	108.873	5.015	1.00	0.00	H
ATOM	2381	CA	LYS	B	182	19.936	110.535	3.908	1.00	0.00	C
ATOM	2382	HA	LYS	B	182	19.406	111.421	4.257	1.00	0.00	H
ATOM	2383	C	LYS	B	182	18.876	109.568	3.368	1.00	0.00	C
ATOM	2384	O	LYS	B	182	18.779	108.431	3.882	1.00	0.00	O
ATOM	2385	OXT	LYS	B	182	18.170	109.894	2.394	1.00	0.00	O
ATOM	2386	CB	LYS	B	182	20.996	110.947	2.859	1.00	0.00	C
ATOM	2387	1HB	LYS	B	182	21.937	111.158	3.366	1.00	0.00	H
ATOM	2388	2HB	LYS	B	182	21.167	110.119	2.168	1.00	0.00	H
ATOM	2389	CG	LYS	B	182	20.598	112.214	2.079	1.00	0.00	C
ATOM	2390	1HG	LYS	B	182	19.642	112.045	1.586	1.00	0.00	H
ATOM	2391	2HG	LYS	B	182	20.480	113.039	2.784	1.00	0.00	H
ATOM	2392	CD	LYS	B	182	21.649	112.606	1.024	1.00	0.00	C
ATOM	2393	1HD	LYS	B	182	22.611	112.788	1.504	1.00	0.00	H
ATOM	2394	2HD	LYS	B	182	21.766	111.780	0.321	1.00	0.00	H
ATOM	2395	CE	LYS	B	182	21.209	113.870	0.269	1.00	0.00	C
ATOM	2396	1HE	LYS	B	182	20.153	113.759	0.011	1.00	0.00	H
ATOM	2397	2HE	LYS	B	182	21.299	114.739	0.929	1.00	0.00	H
ATOM	2398	NZ	LYS	B	182	21.993	114.089	-0.975	1.00	0.00	N
ATOM	2399	1HZ	LYS	B	182	22.000	113.276	-1.586	1.00	0.00	H
ATOM	2400	2HZ	LYS	B	182	22.948	114.408	-0.799	1.00	0.00	H
ATOM	2401	3HZ	LYS	B	182	21.597	114.834	-1.541	1.00	0.00	H
TER	2402		LYS	B	182						
ATOM	2403	N	ASP	C	106	24.114	94.250	-16.825	1.00	0.00	N
ATOM	2404	1H	ASP	C	106	23.210	94.456	-17.222	1.00	0.00	H
ATOM	2405	2H	ASP	C	106	24.826	94.576	-17.467	1.00	0.00	H
ATOM	2406	3H	ASP	C	106	24.196	94.799	-15.972	1.00	0.00	H
ATOM	2407	CA	ASP	C	106	24.279	92.813	-16.540	1.00	0.00	C
ATOM	2408	HA	ASP	C	106	23.451	92.497	-15.907	1.00	0.00	H
ATOM	2409	C	ASP	C	106	25.558	92.553	-15.732	1.00	0.00	C
ATOM	2410	O	ASP	C	106	25.483	91.944	-14.673	1.00	0.00	O

ATOM	2411	CB	ASP	C	106	24.230	91.986	-17.845	1.00	0.00	C
ATOM	2412	1HB	ASP	C	106	24.112	90.932	-17.586	1.00	0.00	H
ATOM	2413	2HB	ASP	C	106	23.368	92.291	-18.440	1.00	0.00	H
ATOM	2414	CG	ASP	C	106	25.515	92.173	-18.654	1.00	0.00	C
ATOM	2415	OD1	ASP	C	106	25.816	93.357	-18.938	1.00	0.00	O
ATOM	2416	OD2	ASP	C	106	26.372	91.269	-18.630	1.00	0.00	O
ATOM	2417	N	SER	C	107	26.712	92.975	-16.266	1.00	0.00	N
ATOM	2418	H	SER	C	107	26.626	93.459	-17.151	1.00	0.00	H
ATOM	2419	CA	SER	C	107	28.088	92.592	-15.917	1.00	0.00	C
ATOM	2420	HA	SER	C	107	28.335	93.031	-14.950	1.00	0.00	H
ATOM	2421	C	SER	C	107	29.085	93.130	-16.958	1.00	0.00	C
ATOM	2422	O	SER	C	107	30.213	93.458	-16.599	1.00	0.00	O
ATOM	2423	CB	SER	C	107	28.268	91.065	-15.817	1.00	0.00	C
ATOM	2424	1HB	SER	C	107	29.209	90.867	-15.304	1.00	0.00	H
ATOM	2425	2HB	SER	C	107	27.470	90.618	-15.225	1.00	0.00	H
ATOM	2426	OG	SER	C	107	28.326	90.439	-17.090	1.00	0.00	O
ATOM	2427	HG	SER	C	107	27.509	90.647	-17.608	1.00	0.00	H
ATOM	2428	N	ARG	C	108	28.676	93.258	-18.238	1.00	0.00	N
ATOM	2429	H	ARG	C	108	27.773	92.863	-18.498	1.00	0.00	H
ATOM	2430	CA	ARG	C	108	29.453	93.924	-19.304	1.00	0.00	C
ATOM	2431	HA	ARG	C	108	30.499	93.641	-19.237	1.00	0.00	H
ATOM	2432	C	ARG	C	108	29.458	95.446	-19.181	1.00	0.00	C
ATOM	2433	O	ARG	C	108	30.238	96.120	-19.843	1.00	0.00	O
ATOM	2434	CB	ARG	C	108	28.920	93.566	-20.716	1.00	0.00	C
ATOM	2435	1HB	ARG	C	108	28.045	94.188	-20.917	1.00	0.00	H
ATOM	2436	2HB	ARG	C	108	29.681	93.883	-21.431	1.00	0.00	H
ATOM	2437	CG	ARG	C	108	28.519	92.121	-21.096	1.00	0.00	C
ATOM	2438	1HG	ARG	C	108	27.459	91.996	-20.883	1.00	0.00	H
ATOM	2439	2HG	ARG	C	108	28.626	92.032	-22.178	1.00	0.00	H
ATOM	2440	CD	ARG	C	108	29.260	90.938	-20.454	1.00	0.00	C
ATOM	2441	1HD	ARG	C	108	28.870	90.797	-19.452	1.00	0.00	H
ATOM	2442	2HD	ARG	C	108	29.034	90.034	-21.022	1.00	0.00	H
ATOM	2443	NE	ARG	C	108	30.715	91.138	-20.422	1.00	0.00	N
ATOM	2444	HE	ARG	C	108	31.211	91.189	-21.304	1.00	0.00	H
ATOM	2445	CZ	ARG	C	108	31.464	91.341	-19.361	1.00	0.00	C
ATOM	2446	NH1	ARG	C	108	31.094	91.017	-18.155	1.00	0.00	N
ATOM	2447	1HH1	ARG	C	108	30.196	90.572	-18.020	1.00	0.00	H
ATOM	2448	2HH1	ARG	C	108	31.627	91.337	-17.371	1.00	0.00	H
ATOM	2449	NH2	ARG	C	108	32.590	91.963	-19.502	1.00	0.00	N
ATOM	2450	1HH2	ARG	C	108	32.846	92.325	-20.417	1.00	0.00	H
ATOM	2451	2HH2	ARG	C	108	33.213	92.128	-18.740	1.00	0.00	H
ATOM	2452	N	SER	C	109	28.541	95.991	-18.387	1.00	0.00	N
ATOM	2453	H	SER	C	109	28.032	95.369	-17.783	1.00	0.00	H
ATOM	2454	CA	SER	C	109	27.894	97.274	-18.652	1.00	0.00	C
ATOM	2455	HA	SER	C	109	28.488	97.834	-19.372	1.00	0.00	H
ATOM	2456	C	SER	C	109	27.766	98.133	-17.393	1.00	0.00	C
ATOM	2457	O	SER	C	109	27.593	97.628	-16.282	1.00	0.00	O
ATOM	2458	CB	SER	C	109	26.517	97.002	-19.281	1.00	0.00	C
ATOM	2459	1HB	SER	C	109	25.925	97.919	-19.272	1.00	0.00	H
ATOM	2460	2HB	SER	C	109	26.650	96.690	-20.317	1.00	0.00	H
ATOM	2461	OG	SER	C	109	25.817	95.973	-18.593	1.00	0.00	O
ATOM	2462	HG	SER	C	109	25.981	95.112	-19.041	1.00	0.00	H
ATOM	2463	N	ILE	C	110	27.864	99.452	-17.574	1.00	0.00	N
ATOM	2464	H	ILE	C	110	28.031	99.790	-18.518	1.00	0.00	H
ATOM	2465	CA	ILE	C	110	27.947	100.440	-16.492	1.00	0.00	C
ATOM	2466	HA	ILE	C	110	27.469	100.016	-15.609	1.00	0.00	H
ATOM	2467	C	ILE	C	110	27.168	101.717	-16.843	1.00	0.00	C
ATOM	2468	O	ILE	C	110	27.271	102.242	-17.949	1.00	0.00	O
ATOM	2469	CB	ILE	C	110	29.429	100.739	-16.124	1.00	0.00	C
ATOM	2470	HB	ILE	C	110	29.431	101.560	-15.407	1.00	0.00	H
ATOM	2471	CG1	ILE	C	110	30.290	101.191	-17.325	1.00	0.00	C
ATOM	2472	1HG1	ILE	C	110	30.208	100.467	-18.136	1.00	0.00	H
ATOM	2473	2HG1	ILE	C	110	29.900	102.145	-17.674	1.00	0.00	H
ATOM	2474	CG2	ILE	C	110	30.056	99.525	-15.414	1.00	0.00	C
ATOM	2475	1HG2	ILE	C	110	30.984	99.815	-14.927	1.00	0.00	H
ATOM	2476	2HG2	ILE	C	110	30.261	98.728	-16.130	1.00	0.00	H
ATOM	2477	3HG2	ILE	C	110	29.380	99.147	-14.651	1.00	0.00	H
ATOM	2478	CD1	ILE	C	110	31.785	101.376	-17.022	1.00	0.00	C
ATOM	2479	1HD1	ILE	C	110	31.915	101.983	-16.130	1.00	0.00	H
ATOM	2480	2HD1	ILE	C	110	32.269	101.870	-17.864	1.00	0.00	H
ATOM	2481	3HD1	ILE	C	110	32.262	100.407	-16.872	1.00	0.00	H
ATOM	2482	N	TYR	C	111	26.366	102.198	-15.892	1.00	0.00	N
ATOM	2483	H	TYR	C	111	26.430	101.736	-14.993	1.00	0.00	H
ATOM	2484	CA	TYR	C	111	25.646	103.478	-15.907	1.00	0.00	C
ATOM	2485	HA	TYR	C	111	25.174	103.626	-16.879	1.00	0.00	H
ATOM	2486	C	TYR	C	111	26.605	104.652	-15.655	1.00	0.00	C
ATOM	2487	O	TYR	C	111	27.618	104.508	-14.971	1.00	0.00	O

ATOM	2488	CB	TYR	C	111	24.546	103.415	-14.824	1.00	0.00	C
ATOM	2489	1HB	TYR	C	111	23.685	102.890	-15.241	1.00	0.00	H
ATOM	2490	2HB	TYR	C	111	24.908	102.805	-13.994	1.00	0.00	H
ATOM	2491	CG	TYR	C	111	24.084	104.736	-14.222	1.00	0.00	C
ATOM	2492	CD1	TYR	C	111	24.852	105.337	-13.203	1.00	0.00	C
ATOM	2493	HD1	TYR	C	111	25.792	104.898	-12.909	1.00	0.00	H
ATOM	2494	CD2	TYR	C	111	22.888	106.351	-14.645	1.00	0.00	C
ATOM	2495	HD2	TYR	C	111	22.307	104.914	-15.448	1.00	0.00	H
ATOM	2496	CE1	TYR	C	111	24.413	106.518	-12.581	1.00	0.00	C
ATOM	2497	HE1	TYR	C	111	24.994	106.975	-11.796	1.00	0.00	H
ATOM	2498	CE2	TYR	C	111	22.436	106.530	-14.017	1.00	0.00	C
ATOM	2499	HE2	TYR	C	111	21.507	106.980	-14.336	1.00	0.00	H
ATOM	2500	CZ	TYR	C	111	23.193	107.104	-12.969	1.00	0.00	C
ATOM	2501	OH	TYR	C	111	22.766	108.210	-12.305	1.00	0.00	O
ATOM	2502	HH	TYR	C	111	21.878	108.476	-12.571	1.00	0.00	H
ATOM	2503	N	VAL	C	112	26.247	105.843	-16.132	1.00	0.00	N
ATOM	2504	H	VAL	C	112	25.389	105.885	-16.678	1.00	0.00	H
ATOM	2505	CA	VAL	C	112	27.029	107.082	-16.038	1.00	0.00	C
ATOM	2506	HA	VAL	C	112	27.770	106.988	-15.246	1.00	0.00	H
ATOM	2507	C	VAL	C	112	26.087	108.244	-15.703	1.00	0.00	C
ATOM	2508	O	VAL	C	112	25.080	108.450	-16.380	1.00	0.00	O
ATOM	2509	CB	VAL	C	112	27.759	107.345	-17.371	1.00	0.00	C
ATOM	2510	HB	VAL	C	112	27.017	107.551	-18.137	1.00	0.00	H
ATOM	2511	CG1	VAL	C	112	28.690	108.556	-17.259	1.00	0.00	C
ATOM	2512	1HG1	VAL	C	112	29.426	108.380	-16.476	1.00	0.00	H
ATOM	2513	2HG1	VAL	C	112	28.116	109.450	-17.021	1.00	0.00	H
ATOM	2514	3HG1	VAL	C	112	29.200	108.720	-18.208	1.00	0.00	H
ATOM	2515	CG2	VAL	C	112	28.609	106.159	-17.852	1.00	0.00	C
ATOM	2516	1HG2	VAL	C	112	29.362	105.905	-17.107	1.00	0.00	H
ATOM	2517	2HG2	VAL	C	112	29.095	106.410	-18.793	1.00	0.00	H
ATOM	2518	3HG2	VAL	C	112	27.980	105.288	-18.035	1.00	0.00	H
ATOM	2519	N	GLY	C	113	26.417	109.036	-14.680	1.00	0.00	N
ATOM	2520	H	GLY	C	113	27.298	108.864	-14.205	1.00	0.00	H
ATOM	2521	CA	GLY	C	113	25.544	110.090	-14.151	1.00	0.00	C
ATOM	2522	1HA	GLY	C	113	24.863	110.422	-14.933	1.00	0.00	H
ATOM	2523	2HA	GLY	C	113	24.945	109.680	-13.338	1.00	0.00	H
ATOM	2524	C	GLY	C	113	26.291	111.322	-13.637	1.00	0.00	C
ATOM	2525	O	GLY	C	113	27.519	111.353	-13.595	1.00	0.00	O
ATOM	2526	N	ASN	C	114	25.541	112.368	-13.267	1.00	0.00	N
ATOM	2527	H	ASN	C	114	24.537	112.236	-13.283	1.00	0.00	H
ATOM	2528	CA	ASN	C	114	26.051	113.735	-13.072	1.00	0.00	C
ATOM	2529	HA	ASN	C	114	25.181	114.387	-12.975	1.00	0.00	H
ATOM	2530	C	ASN	C	114	26.819	114.229	-14.324	1.00	0.00	C
ATOM	2531	O	ASN	C	114	28.005	114.539	-14.258	1.00	0.00	O
ATOM	2532	CB	ASN	C	114	26.827	113.823	-11.732	1.00	0.00	C
ATOM	2533	1HB	ASN	C	114	26.211	113.392	-10.943	1.00	0.00	H
ATOM	2534	2HB	ASN	C	114	27.739	113.234	-11.800	1.00	0.00	H
ATOM	2535	CG	ASN	C	114	27.199	115.238	-11.299	1.00	0.00	C
ATOM	2536	OD1	ASN	C	114	26.634	115.812	-10.386	1.00	0.00	O
ATOM	2537	ND2	ASN	C	114	28.177	115.867	-11.903	1.00	0.00	N
ATOM	2538	1HD2	ASN	C	114	28.324	116.822	-11.659	1.00	0.00	H
ATOM	2539	2HD2	ASN	C	114	28.593	115.451	-12.740	1.00	0.00	H
ATOM	2540	N	VAL	C	115	26.156	114.286	-15.485	1.00	0.00	N
ATOM	2541	H	VAL	C	115	25.187	114.005	-15.507	1.00	0.00	H
ATOM	2542	CA	VAL	C	115	26.806	114.618	-16.772	1.00	0.00	C
ATOM	2543	HA	VAL	C	115	27.884	114.668	-16.622	1.00	0.00	H
ATOM	2544	C	VAL	C	115	26.351	115.985	-17.295	1.00	0.00	C
ATOM	2545	O	VAL	C	115	25.182	116.363	-17.200	1.00	0.00	O
ATOM	2546	CB	VAL	C	115	26.563	113.512	-17.815	1.00	0.00	C
ATOM	2547	HB	VAL	C	115	25.501	113.494	-18.044	1.00	0.00	H
ATOM	2548	CG1	VAL	C	115	27.355	113.768	-19.107	1.00	0.00	C
ATOM	2549	1HG1	VAL	C	115	26.995	114.669	-19.602	1.00	0.00	H
ATOM	2550	2HG1	VAL	C	115	27.210	112.935	-19.797	1.00	0.00	H
ATOM	2551	3HG1	VAL	C	115	28.419	113.861	-18.888	1.00	0.00	H
ATOM	2552	CG2	VAL	C	115	26.978	112.133	-17.282	1.00	0.00	C
ATOM	2553	1HG2	VAL	C	115	26.881	111.386	-18.070	1.00	0.00	H
ATOM	2554	2HG2	VAL	C	115	26.326	111.832	-16.466	1.00	0.00	H
ATOM	2555	3HG2	VAL	C	115	28.011	112.154	-16.934	1.00	0.00	H
ATOM	2556	N	ASP	C	116	27.301	116.757	-17.825	1.00	0.00	N
ATOM	2557	H	ASP	C	116	28.229	116.371	-17.906	1.00	0.00	H
ATOM	2558	CA	ASP	C	116	27.070	118.101	-18.359	1.00	0.00	C
ATOM	2559	HA	ASP	C	116	26.616	118.699	-17.568	1.00	0.00	H
ATOM	2560	C	ASP	C	116	26.123	118.121	-19.576	1.00	0.00	C
ATOM	2561	O	ASP	C	116	26.129	117.222	-20.413	1.00	0.00	O
ATOM	2562	CB	ASP	C	116	28.424	118.722	-18.706	1.00	0.00	C
ATOM	2563	1HB	ASP	C	116	29.102	118.601	-17.859	1.00	0.00	H
ATOM	2564	2HB	ASP	C	116	28.853	118.197	-19.560	1.00	0.00	H

ATOM	2565	CG	ASP	C	116	28.295	120.207	-19.030	1.00	0.00	C
ATOM	2566	OD1	ASP	C	116	28.694	121.045	-18.193	1.00	0.00	O
ATOM	2567	OD2	ASP	C	116	27.886	120.551	-20.156	1.00	0.00	O
ATOM	2568	N	TYR	C	117	25.333	119.191	-19.694	1.00	0.00	N
ATOM	2569	H	TYR	C	117	25.525	119.976	-19.093	1.00	0.00	H
ATOM	2570	CA	TYR	C	117	24.303	119.372	-20.721	1.00	0.00	C
ATOM	2571	HA	TYR	C	117	23.738	118.442	-20.772	1.00	0.00	H
ATOM	2572	C	TYR	C	117	24.810	119.622	-22.157	1.00	0.00	C
ATOM	2573	O	TYR	C	117	23.985	119.849	-23.043	1.00	0.00	O
ATOM	2574	CB	TYR	C	117	23.363	120.502	-20.262	1.00	0.00	C
ATOM	2575	1HB	TYR	C	117	22.538	120.583	-20.970	1.00	0.00	H
ATOM	2576	2HB	TYR	C	117	22.933	120.224	-19.300	1.00	0.00	H
ATOM	2577	CG	TYR	C	117	24.016	121.869	-20.135	1.00	0.00	C
ATOM	2578	CD1	TYR	C	117	24.447	122.338	-18.878	1.00	0.00	C
ATOM	2579	HD1	TYR	C	117	24.316	121.727	-17.996	1.00	0.00	H
ATOM	2580	CD2	TYR	C	117	24.211	122.663	-21.283	1.00	0.00	C
ATOM	2581	HD2	TYR	C	117	23.893	122.296	-22.251	1.00	0.00	H
ATOM	2582	CE1	TYR	C	117	25.081	123.591	-18.772	1.00	0.00	C
ATOM	2583	HE1	TYR	C	117	25.444	123.942	-17.819	1.00	0.00	H
ATOM	2584	CE2	TYR	C	117	24.855	123.910	-21.184	1.00	0.00	C
ATOM	2585	HE2	TYR	C	117	25.026	124.493	-22.074	1.00	0.00	H
ATOM	2586	CZ	TYR	C	117	25.296	124.373	-19.926	1.00	0.00	C
ATOM	2587	OH	TYR	C	117	25.922	125.576	-19.831	1.00	0.00	O
ATOM	2588	HH	TYR	C	117	26.101	125.928	-20.703	1.00	0.00	H
ATOM	2589	N	ALA	C	118	26.125	119.626	-22.391	1.00	0.00	N
ATOM	2590	H	ALA	C	118	26.748	119.566	-21.592	1.00	0.00	H
ATOM	2591	CA	ALA	C	118	26.741	119.809	-23.711	1.00	0.00	C
ATOM	2592	HA	ALA	C	118	25.960	119.815	-24.472	1.00	0.00	H
ATOM	2593	C	ALA	C	118	27.703	118.666	-24.114	1.00	0.00	C
ATOM	2594	O	ALA	C	118	28.384	118.783	-25.132	1.00	0.00	O
ATOM	2595	CB	ALA	C	118	27.424	121.184	-23.720	1.00	0.00	C
ATOM	2596	1HB	ALA	C	118	28.226	121.195	-22.983	1.00	0.00	H
ATOM	2597	2HB	ALA	C	118	26.697	121.959	-23.478	1.00	0.00	H
ATOM	2598	3HB	ALA	C	118	27.842	121.377	-24.708	1.00	0.00	H
ATOM	2599	N	CYS	C	119	27.759	117.593	-23.317	1.00	0.00	N
ATOM	2600	H	CYS	C	119	27.120	117.557	-22.537	1.00	0.00	H
ATOM	2601	CA	CYS	C	119	28.552	116.386	-23.569	1.00	0.00	C
ATOM	2602	HA	CYS	C	119	29.579	116.668	-23.815	1.00	0.00	H
ATOM	2603	C	CYS	C	119	27.988	115.538	-24.735	1.00	0.00	C
ATOM	2604	O	CYS	C	119	26.793	115.614	-25.033	1.00	0.00	O
ATOM	2605	CB	CYS	C	119	28.529	115.597	-22.251	1.00	0.00	C
ATOM	2606	1HB	CYS	C	119	28.693	116.276	-21.413	1.00	0.00	H
ATOM	2607	2HB	CYS	C	119	27.551	115.125	-22.134	1.00	0.00	H
ATOM	2608	SG	CYS	C	119	29.826	114.336	-22.228	1.00	0.00	S
ATOM	2609	HG	CYS	C	119	29.354	113.616	-21.205	1.00	0.00	H
ATOM	2610	N	THR	C	120	28.814	114.678	-25.341	1.00	0.00	N
ATOM	2611	H	THR	C	120	29.796	114.713	-25.082	1.00	0.00	H
ATOM	2612	CA	THR	C	120	28.458	113.820	-26.493	1.00	0.00	C
ATOM	2613	HA	THR	C	120	27.388	113.900	-26.671	1.00	0.00	H
ATOM	2614	C	THR	C	120	28.797	112.337	-26.256	1.00	0.00	C
ATOM	2615	O	THR	C	120	29.803	112.033	-25.612	1.00	0.00	O
ATOM	2616	CB	THR	C	120	29.177	114.289	-27.771	1.00	0.00	C
ATOM	2617	HB	THR	C	120	28.910	113.618	-28.587	1.00	0.00	H
ATOM	2618	OG1	THR	C	120	30.577	114.266	-27.614	1.00	0.00	O
ATOM	2619	HG1	THR	C	120	30.811	114.916	-26.916	1.00	0.00	H
ATOM	2620	CG2	THR	C	120	28.790	115.711	-28.177	1.00	0.00	C
ATOM	2621	1HG2	THR	C	120	27.708	115.778	-28.286	1.00	0.00	H
ATOM	2622	2HG2	THR	C	120	29.260	115.949	-29.131	1.00	0.00	H
ATOM	2623	3HG2	THR	C	120	29.124	116.426	-27.424	1.00	0.00	H
ATOM	2624	N	PRO	C	121	28.005	111.374	-26.772	1.00	0.00	N
ATOM	2625	CA	PRO	C	121	28.312	109.948	-26.618	1.00	0.00	C
ATOM	2626	HA	PRO	C	121	28.442	109.714	-25.562	1.00	0.00	H
ATOM	2627	C	PRO	C	121	29.602	109.546	-27.354	1.00	0.00	C
ATOM	2628	O	PRO	C	121	30.316	108.646	-26.910	1.00	0.00	O
ATOM	2629	CB	PRO	C	121	27.081	109.198	-27.136	1.00	0.00	C
ATOM	2630	1HB	PRO	C	121	27.346	108.263	-27.630	1.00	0.00	H
ATOM	2631	2HB	PRO	C	121	26.407	109.000	-26.302	1.00	0.00	H
ATOM	2632	CG	PRO	C	121	26.419	110.177	-28.105	1.00	0.00	C
ATOM	2633	1HG	PRO	C	121	26.838	110.030	-29.099	1.00	0.00	H
ATOM	2634	2HG	PRO	C	121	25.338	110.044	-28.143	1.00	0.00	H
ATOM	2635	CD	PRO	C	121	26.803	111.562	-27.574	1.00	0.00	C
ATOM	2636	1HD	PRO	C	121	26.978	112.247	-28.403	1.00	0.00	H
ATOM	2637	2HD	PRO	C	121	26.009	111.962	-26.947	1.00	0.00	H
ATOM	2638	N	GLU	C	122	29.941	110.242	-28.440	1.00	0.00	N
ATOM	2639	H	GLU	C	122	29.273	110.920	-28.810	1.00	0.00	H
ATOM	2640	CA	GLU	C	122	31.204	110.110	-29.169	1.00	0.00	C
ATOM	2641	HA	GLU	C	122	31.332	109.078	-29.492	1.00	0.00	H

ATOM	2642	C	GLU	C	122	32.425	110.458	-28.296	1.00	0.00	C
ATOM	2643	O	GLU	C	122	33.402	109.709	-28.291	1.00	0.00	O
ATOM	2644	CB	GLU	C	122	31.169	110.992	-30.432	1.00	0.00	C
ATOM	2645	1HB	GLU	C	122	30.983	112.031	-30.154	1.00	0.00	H
ATOM	2646	2HB	GLU	C	122	32.159	110.952	-30.888	1.00	0.00	H
ATOM	2647	CG	GLU	C	122	30.153	110.544	-31.506	1.00	0.00	C
ATOM	2648	1HG	GLU	C	122	30.377	111.097	-32.420	1.00	0.00	H
ATOM	2649	2HG	GLU	C	122	30.314	109.484	-31.714	1.00	0.00	H
ATOM	2650	CD	GLU	C	122	28.672	110.780	-31.155	1.00	0.00	C
ATOM	2651	OE1	GLU	C	122	27.795	110.074	-31.716	1.00	0.00	O
ATOM	2652	OE2	GLU	C	122	28.389	111.654	-30.306	1.00	0.00	O
ATOM	2653	N	GLU	C	123	32.389	111.544	-27.507	1.00	0.00	N
ATOM	2654	H	GLU	C	123	31.581	112.158	-27.529	1.00	0.00	H
ATOM	2655	CA	GLU	C	123	33.512	111.867	-26.613	1.00	0.00	C
ATOM	2656	HA	GLU	C	123	34.424	111.616	-27.151	1.00	0.00	H
ATOM	2657	C	GLU	C	123	33.520	111.023	-25.326	1.00	0.00	C
ATOM	2658	O	GLU	C	123	34.602	110.699	-24.830	1.00	0.00	O
ATOM	2659	CB	GLU	C	123	33.617	113.378	-26.340	1.00	0.00	C
ATOM	2660	1HB	GLU	C	123	34.664	113.615	-26.143	1.00	0.00	H
ATOM	2661	2HB	GLU	C	123	33.330	113.915	-27.245	1.00	0.00	H
ATOM	2662	CG	GLU	C	123	32.795	113.888	-25.153	1.00	0.00	C
ATOM	2663	1HG	GLU	C	123	31.827	113.394	-25.138	1.00	0.00	H
ATOM	2664	2HG	GLU	C	123	33.311	113.645	-24.220	1.00	0.00	H
ATOM	2665	CD	GLU	C	123	32.579	115.396	-25.256	1.00	0.00	C
ATOM	2666	OE1	GLU	C	123	31.439	115.802	-25.580	1.00	0.00	O
ATOM	2667	OE2	GLU	C	123	33.529	116.169	-24.995	1.00	0.00	O
ATOM	2668	N	VAL	C	124	32.349	110.620	-24.810	1.00	0.00	N
ATOM	2669	H	VAL	C	124	31.499	110.960	-25.254	1.00	0.00	H
ATOM	2670	CA	VAL	C	124	32.219	109.740	-23.631	1.00	0.00	C
ATOM	2671	HA	VAL	C	124	32.716	110.216	-22.788	1.00	0.00	H
ATOM	2672	C	VAL	C	124	32.927	108.404	-23.846	1.00	0.00	C
ATOM	2673	O	VAL	C	124	33.750	108.018	-23.012	1.00	0.00	O
ATOM	2674	CB	VAL	C	124	30.735	109.521	-23.255	1.00	0.00	C
ATOM	2675	HB	VAL	C	124	30.174	109.286	-24.158	1.00	0.00	H
ATOM	2676	CG1	VAL	C	124	30.509	108.387	-22.244	1.00	0.00	C
ATOM	2677	1HG1	VAL	C	124	29.458	108.350	-21.955	1.00	0.00	H
ATOM	2678	2HG1	VAL	C	124	31.124	108.553	-21.360	1.00	0.00	H
ATOM	2679	3HG1	VAL	C	124	30.764	107.425	-22.687	1.00	0.00	H
ATOM	2680	CG2	VAL	C	124	30.142	110.782	-22.615	1.00	0.00	C
ATOM	2681	1HG2	VAL	C	124	29.058	110.682	-22.545	1.00	0.00	H
ATOM	2682	2HG2	VAL	C	124	30.372	111.654	-23.222	1.00	0.00	H
ATOM	2683	3HG2	VAL	C	124	30.554	110.929	-21.618	1.00	0.00	H
ATOM	2684	N	GLN	C	125	32.652	107.710	-24.958	1.00	0.00	N
ATOM	2685	H	GLN	C	125	31.973	108.075	-25.619	1.00	0.00	H
ATOM	2686	CA	GLN	C	125	33.256	106.396	-25.204	1.00	0.00	C
ATOM	2687	HA	GLN	C	125	33.046	105.781	-24.327	1.00	0.00	H
ATOM	2688	C	GLN	C	125	34.792	106.475	-25.290	1.00	0.00	C
ATOM	2689	O	GLN	C	125	35.470	105.734	-24.581	1.00	0.00	O
ATOM	2690	CB	GLN	C	125	32.577	105.677	-26.391	1.00	0.00	C
ATOM	2691	1HB	GLN	C	125	32.978	104.665	-26.461	1.00	0.00	H
ATOM	2692	2HB	GLN	C	125	31.514	105.592	-26.162	1.00	0.00	H
ATOM	2693	CG	GLN	C	125	32.721	106.355	-27.762	1.00	0.00	C
ATOM	2694	1HG	GLN	C	125	32.490	107.412	-27.666	1.00	0.00	H
ATOM	2695	2HG	GLN	C	125	33.749	106.263	-28.111	1.00	0.00	H
ATOM	2696	CD	GLN	C	125	31.795	105.742	-28.814	1.00	0.00	C
ATOM	2697	OE1	GLN	C	125	31.971	104.615	-29.246	1.00	0.00	O
ATOM	2698	NE2	GLN	C	125	30.781	106.465	-29.241	1.00	0.00	N
ATOM	2699	1HE2	GLN	C	125	30.188	106.094	-29.990	1.00	0.00	H
ATOM	2700	2HE2	GLN	C	125	30.572	107.340	-28.797	1.00	0.00	H
ATOM	2701	N	GLN	C	126	35.368	107.431	-26.034	1.00	0.00	N
ATOM	2702	H	GLN	C	126	34.778	108.038	-26.589	1.00	0.00	H
ATOM	2703	CA	GLN	C	126	36.834	107.575	-26.118	1.00	0.00	C
ATOM	2704	HA	GLN	C	126	37.236	106.572	-26.268	1.00	0.00	H
ATOM	2705	C	GLN	C	126	37.503	108.089	-24.825	1.00	0.00	C
ATOM	2706	O	GLN	C	126	38.662	107.751	-24.569	1.00	0.00	O
ATOM	2707	CB	GLN	C	126	37.242	108.371	-27.373	1.00	0.00	C
ATOM	2708	1HB	GLN	C	126	38.327	108.335	-27.479	1.00	0.00	H
ATOM	2709	2HB	GLN	C	126	36.821	107.852	-28.236	1.00	0.00	H
ATOM	2710	CG	GLN	C	126	36.778	109.834	-27.442	1.00	0.00	C
ATOM	2711	1HG	GLN	C	126	36.760	110.140	-28.488	1.00	0.00	H
ATOM	2712	2HG	GLN	C	126	35.762	109.903	-27.068	1.00	0.00	H
ATOM	2713	CD	GLN	C	126	37.683	110.815	-26.700	1.00	0.00	C
ATOM	2714	OE1	GLN	C	126	38.826	111.047	-27.054	1.00	0.00	O
ATOM	2715	NE2	GLN	C	126	37.207	111.453	-25.655	1.00	0.00	N
ATOM	2716	1HE2	GLN	C	126	37.833	112.078	-25.183	1.00	0.00	H
ATOM	2717	2HE2	GLN	C	126	36.274	111.245	-25.315	1.00	0.00	H
ATOM	2718	N	HIS	C	127	36.786	108.838	-23.972	1.00	0.00	N

ATOM	2719	H	HIS	C	127	35.834	109.086	-24.216	1.00	0.00	H
ATOM	2720	CA	HIS	C	127	37.284	109.230	-22.644	1.00	0.00	C
ATOM	2721	HA	HIS	C	127	38.226	109.769	-22.761	1.00	0.00	H
ATOM	2722	C	HIS	C	127	37.573	107.984	-21.794	1.00	0.00	C
ATOM	2723	O	HIS	C	127	38.680	107.834	-21.282	1.00	0.00	O
ATOM	2724	CB	HIS	C	127	36.275	110.141	-21.915	1.00	0.00	C
ATOM	2725	1HB	HIS	C	127	35.311	110.117	-22.420	1.00	0.00	H
ATOM	2726	2HB	HIS	C	127	36.106	109.735	-20.918	1.00	0.00	H
ATOM	2727	CG	HIS	C	127	36.697	111.584	-21.736	1.00	0.00	C
ATOM	2728	ND1	HIS	C	127	37.336	112.115	-20.633	1.00	0.00	N
ATOM	2729	HD1	HIS	C	127	37.593	111.616	-19.790	1.00	0.00	H
ATOM	2730	CD2	HIS	C	127	36.363	112.639	-22.543	1.00	0.00	C
ATOM	2731	HD2	HIS	C	127	35.785	112.580	-23.454	1.00	0.00	H
ATOM	2732	CE1	HIS	C	127	37.417	113.447	-20.790	1.00	0.00	C
ATOM	2733	HE1	HIS	C	127	37.845	114.133	-20.065	1.00	0.00	H
ATOM	2734	NE2	HIS	C	127	36.815	113.818	-21.933	1.00	0.00	N
ATOM	2735	N	PHE	C	128	36.602	107.072	-21.673	1.00	0.00	N
ATOM	2736	H	PHE	C	128	35.705	107.242	-22.117	1.00	0.00	H
ATOM	2737	CA	PHE	C	128	36.788	105.838	-20.905	1.00	0.00	C
ATOM	2738	HA	PHE	C	128	37.283	106.088	-19.967	1.00	0.00	H
ATOM	2739	C	PHE	C	128	37.722	104.842	-21.612	1.00	0.00	C
ATOM	2740	O	PHE	C	128	38.588	104.275	-20.946	1.00	0.00	O
ATOM	2741	CB	PHE	C	128	35.424	105.218	-20.572	1.00	0.00	C
ATOM	2742	1HB	PHE	C	128	34.928	104.972	-21.509	1.00	0.00	H
ATOM	2743	2HB	PHE	C	128	35.591	104.285	-20.031	1.00	0.00	H
ATOM	2744	CG	PHE	C	128	34.486	106.082	-19.738	1.00	0.00	C
ATOM	2745	CD1	PHE	C	128	34.952	106.791	-18.610	1.00	0.00	C
ATOM	2746	HD1	PHE	C	128	35.993	106.746	-18.329	1.00	0.00	H
ATOM	2747	CD2	PHE	C	128	33.122	106.152	-20.077	1.00	0.00	C
ATOM	2748	HD2	PHE	C	128	32.753	105.622	-20.943	1.00	0.00	H
ATOM	2749	CE1	PHE	C	128	34.063	107.560	-17.835	1.00	0.00	C
ATOM	2750	HE1	PHE	C	128	34.431	108.111	-16.980	1.00	0.00	H
ATOM	2751	CE2	PHE	C	128	32.231	106.904	-19.292	1.00	0.00	C
ATOM	2752	HE2	PHE	C	128	31.185	106.939	-19.556	1.00	0.00	H
ATOM	2753	CZ	PHE	C	128	32.699	107.608	-18.169	1.00	0.00	C
ATOM	2754	HZ	PHE	C	128	32.012	108.185	-17.568	1.00	0.00	H
ATOM	2755	N	GLN	C	129	37.646	104.712	-22.946	1.00	0.00	N
ATOM	2756	H	GLN	C	129	36.889	105.182	-23.434	1.00	0.00	H
ATOM	2757	CA	GLN	C	129	38.542	103.852	-23.741	1.00	0.00	C
ATOM	2758	HA	GLN	C	129	38.376	102.824	-23.424	1.00	0.00	H
ATOM	2759	C	GLN	C	129	40.032	104.171	-23.519	1.00	0.00	C
ATOM	2760	O	GLN	C	129	40.873	103.276	-23.567	1.00	0.00	O
ATOM	2761	CB	GLN	C	129	38.193	103.955	-25.238	1.00	0.00	C
ATOM	2762	1HB	GLN	C	129	37.120	104.073	-25.363	1.00	0.00	H
ATOM	2763	2HB	GLN	C	129	38.678	104.834	-25.666	1.00	0.00	H
ATOM	2764	CG	GLN	C	129	38.600	102.706	-26.032	1.00	0.00	C
ATOM	2765	1HG	GLN	C	129	39.680	102.566	-25.974	1.00	0.00	H
ATOM	2766	2HG	GLN	C	129	38.112	101.830	-25.608	1.00	0.00	H
ATOM	2767	CD	GLN	C	129	38.201	102.835	-27.498	1.00	0.00	C
ATOM	2768	OE1	GLN	C	129	38.906	103.427	-28.298	1.00	0.00	O
ATOM	2769	NE2	GLN	C	129	37.062	102.318	-27.904	1.00	0.00	N
ATOM	2770	1HE2	GLN	C	129	36.838	102.425	-28.876	1.00	0.00	H
ATOM	2771	2HE2	GLN	C	129	36.448	101.798	-27.281	1.00	0.00	H
ATOM	2772	N	SER	C	130	40.355	105.437	-23.224	1.00	0.00	N
ATOM	2773	H	SER	C	130	39.607	106.119	-23.217	1.00	0.00	H
ATOM	2774	CA	SER	C	130	41.710	105.901	-22.889	1.00	0.00	C
ATOM	2775	HA	SER	C	130	42.389	105.566	-23.674	1.00	0.00	H
ATOM	2776	C	SER	C	130	42.267	105.361	-21.557	1.00	0.00	C
ATOM	2777	O	SER	C	130	43.466	105.497	-21.311	1.00	0.00	O
ATOM	2778	CB	SER	C	130	41.745	107.432	-22.858	1.00	0.00	C
ATOM	2779	1HB	SER	C	130	41.060	107.804	-22.096	1.00	0.00	H
ATOM	2780	2HB	SER	C	130	42.754	107.757	-22.601	1.00	0.00	H
ATOM	2781	OG	SER	C	130	41.405	107.981	-24.119	1.00	0.00	O
ATOM	2782	HG	SER	C	130	40.449	107.862	-24.275	1.00	0.00	H
ATOM	2783	N	CYS	C	131	41.430	104.741	-20.715	1.00	0.00	N
ATOM	2784	H	CYS	C	131	40.455	104.686	-20.984	1.00	0.00	H
ATOM	2785	CA	CYS	C	131	41.803	104.164	-19.416	1.00	0.00	C
ATOM	2786	HA	CYS	C	131	42.877	104.265	-19.258	1.00	0.00	H
ATOM	2787	C	CYS	C	131	41.480	102.663	-19.302	1.00	0.00	C
ATOM	2788	O	CYS	C	131	42.202	101.944	-18.616	1.00	0.00	O
ATOM	2789	CB	CYS	C	131	41.076	104.926	-18.301	1.00	0.00	C
ATOM	2790	1HB	CYS	C	131	40.004	104.946	-18.505	1.00	0.00	H
ATOM	2791	2HB	CYS	C	131	41.235	104.400	-17.360	1.00	0.00	H
ATOM	2792	SG	CYS	C	131	41.696	106.622	-18.115	1.00	0.00	S
ATOM	2793	HG	CYS	C	131	40.933	106.882	-17.039	1.00	0.00	H
ATOM	2794	N	GLY	C	132	40.441	102.179	-19.986	1.00	0.00	N
ATOM	2795	H	GLY	C	132	39.841	102.830	-20.483	1.00	0.00	H

ATOM	2796	CA	GLY	C	132	40.097	100.761	-20.108	1.00	0.00	C
ATOM	2797	1HA	GLY	C	132	41.004	100.171	-20.241	1.00	0.00	H
ATOM	2798	2HA	GLY	C	132	39.583	100.420	-19.209	1.00	0.00	H
ATOM	2799	C	GLY	C	132	39.173	100.565	-21.307	1.00	0.00	C
ATOM	2800	O	GLY	C	132	38.247	101.351	-21.496	1.00	0.00	O
ATOM	2801	N	THR	C	133	39.459	99.578	-22.162	1.00	0.00	N
ATOM	2802	H	THR	C	133	40.195	98.929	-21.936	1.00	0.00	H
ATOM	2803	CA	THR	C	133	38.746	99.433	-23.442	1.00	0.00	C
ATOM	2804	HA	THR	C	133	38.893	100.369	-23.978	1.00	0.00	H
ATOM	2805	C	THR	C	133	37.234	99.270	-23.247	1.00	0.00	C
ATOM	2806	O	THR	C	133	36.777	98.505	-22.402	1.00	0.00	O
ATOM	2807	CB	THR	C	133	39.354	98.345	-24.339	1.00	0.00	C
ATOM	2808	HB	THR	C	133	40.403	98.594	-24.500	1.00	0.00	H
ATOM	2809	OG1	THR	C	133	38.706	98.349	-25.585	1.00	0.00	O
ATOM	2810	HG1	THR	C	133	38.052	97.639	-25.569	1.00	0.00	H
ATOM	2811	CG2	THR	C	133	39.280	96.920	-23.805	1.00	0.00	C
ATOM	2812	1HG2	THR	C	133	39.834	96.253	-24.467	1.00	0.00	H
ATOM	2813	2HG2	THR	C	133	38.242	96.595	-23.766	1.00	0.00	H
ATOM	2814	3HG2	THR	C	133	39.717	96.869	-22.809	1.00	0.00	H
ATOM	2815	N	VAL	C	134	36.470	100.023	-24.037	1.00	0.00	N
ATOM	2816	H	VAL	C	134	36.930	100.541	-24.769	1.00	0.00	H
ATOM	2817	CA	VAL	C	134	35.009	100.161	-23.983	1.00	0.00	C
ATOM	2818	HA	VAL	C	134	34.583	99.266	-23.536	1.00	0.00	H
ATOM	2819	C	VAL	C	134	34.496	100.288	-25.422	1.00	0.00	C
ATOM	2820	O	VAL	C	134	35.248	100.745	-26.291	1.00	0.00	O
ATOM	2821	CB	VAL	C	134	34.630	101.365	-23.092	1.00	0.00	C
ATOM	2822	HB	VAL	C	134	35.318	101.393	-22.245	1.00	0.00	H
ATOM	2823	CG1	VAL	C	134	34.725	102.710	-23.815	1.00	0.00	C
ATOM	2824	1HG1	VAL	C	134	35.722	102.818	-24.230	1.00	0.00	H
ATOM	2825	2HG1	VAL	C	134	34.544	103.519	-23.113	1.00	0.00	H
ATOM	2826	3HG1	VAL	C	134	33.990	102.776	-24.617	1.00	0.00	H
ATOM	2827	CG2	VAL	C	134	33.227	101.239	-22.507	1.00	0.00	C
ATOM	2828	1HG2	VAL	C	134	33.157	100.320	-21.924	1.00	0.00	H
ATOM	2829	2HG2	VAL	C	134	32.484	101.223	-23.304	1.00	0.00	H
ATOM	2830	3HG2	VAL	C	134	33.036	102.081	-21.845	1.00	0.00	H
ATOM	2831	N	ASN	C	135	33.261	99.861	-25.692	1.00	0.00	N
ATOM	2832	H	ASN	C	135	32.698	99.501	-24.924	1.00	0.00	H
ATOM	2833	CA	ASN	C	135	32.795	99.574	-27.052	1.00	0.00	C
ATOM	2834	HA	ASN	C	135	33.546	99.899	-27.776	1.00	0.00	H
ATOM	2835	C	ASN	C	135	31.523	100.355	-27.425	1.00	0.00	C
ATOM	2836	O	ASN	C	135	31.625	101.262	-28.252	1.00	0.00	O
ATOM	2837	CB	ASN	C	135	32.688	98.045	-27.190	1.00	0.00	C
ATOM	2838	1HB	ASN	C	135	33.688	97.626	-27.267	1.00	0.00	H
ATOM	2839	2HB	ASN	C	135	32.227	97.622	-26.299	1.00	0.00	H
ATOM	2840	CG	ASN	C	135	31.926	97.585	-28.416	1.00	0.00	C
ATOM	2841	OD1	ASN	C	135	32.283	97.884	-29.542	1.00	0.00	O
ATOM	2842	ND2	ASN	C	135	30.850	96.866	-28.231	1.00	0.00	N
ATOM	2843	1HD2	ASN	C	135	30.366	96.506	-29.029	1.00	0.00	H
ATOM	2844	2HD2	ASN	C	135	30.475	96.786	-27.278	1.00	0.00	H
ATOM	2845	N	ARG	C	136	30.348	100.069	-26.846	1.00	0.00	N
ATOM	2846	H	ARG	C	136	30.299	99.255	-26.229	1.00	0.00	H
ATOM	2847	CA	ARG	C	136	29.079	100.771	-27.163	1.00	0.00	C
ATOM	2848	HA	ARG	C	136	29.250	101.456	-27.991	1.00	0.00	H
ATOM	2849	C	ARG	C	136	28.604	101.691	-26.035	1.00	0.00	C
ATOM	2850	O	ARG	C	136	29.096	101.631	-24.908	1.00	0.00	O
ATOM	2851	CB	ARG	C	136	28.001	99.751	-27.606	1.00	0.00	C
ATOM	2852	1HB	ARG	C	136	28.284	98.747	-27.292	1.00	0.00	H
ATOM	2853	2HB	ARG	C	136	27.063	99.979	-27.096	1.00	0.00	H
ATOM	2854	CG	ARG	C	136	27.701	99.723	-29.119	1.00	0.00	C
ATOM	2855	1HG	ARG	C	136	26.905	98.993	-29.272	1.00	0.00	H
ATOM	2856	2HG	ARG	C	136	27.313	100.694	-29.429	1.00	0.00	H
ATOM	2857	CD	ARG	C	136	28.880	99.325	-30.028	1.00	0.00	C
ATOM	2858	1HD	ARG	C	136	29.385	98.465	-29.594	1.00	0.00	H
ATOM	2859	2HD	ARG	C	136	28.500	99.015	-30.999	1.00	0.00	H
ATOM	2860	NE	ARG	C	136	29.843	100.422	-30.216	1.00	0.00	N
ATOM	2861	HE	ARG	C	136	30.649	100.437	-29.605	1.00	0.00	H
ATOM	2862	CZ	ARG	C	136	29.701	101.502	-30.952	1.00	0.00	C
ATOM	2863	NH1	ARG	C	136	28.790	101.625	-31.868	1.00	0.00	N
ATOM	2864	1HH1	ARG	C	136	28.231	100.833	-32.151	1.00	0.00	H
ATOM	2865	2HH1	ARG	C	136	28.792	102.518	-32.365	1.00	0.00	H
ATOM	2866	NH2	ARG	C	136	30.458	102.536	-30.762	1.00	0.00	N
ATOM	2867	1HH2	ARG	C	136	31.137	102.582	-30.011	1.00	0.00	H
ATOM	2868	2HH2	ARG	C	136	30.251	103.367	-31.318	1.00	0.00	H
ATOM	2869	N	VAL	C	137	27.678	102.591	-26.385	1.00	0.00	N
ATOM	2870	H	VAL	C	137	27.301	102.536	-27.319	1.00	0.00	H
ATOM	2871	CA	VAL	C	137	27.213	103.725	-25.567	1.00	0.00	C
ATOM	2872	HA	VAL	C	137	27.170	103.404	-24.529	1.00	0.00	H

ATOM	2873	C	VAL	C	137	25.810	104.183	-25.992	1.00	0.00	C
ATOM	2874	O	VAL	C	137	25.521	104.244	-27.186	1.00	0.00	O
ATOM	2875	CB	VAL	C	137	28.218	104.902	-25.684	1.00	0.00	C
ATOM	2876	HB	VAL	C	137	29.178	104.549	-25.308	1.00	0.00	H
ATOM	2877	CG1	VAL	C	137	28.466	105.385	-27.119	1.00	0.00	C
ATOM	2878	1HG1	VAL	C	137	27.547	105.749	-27.575	1.00	0.00	H
ATOM	2879	2HG1	VAL	C	137	28.872	104.577	-27.729	1.00	0.00	H
ATOM	2880	3HG1	VAL	C	137	29.192	106.194	-27.103	1.00	0.00	H
ATOM	2881	CG2	VAL	C	137	27.830	106.138	-24.857	1.00	0.00	C
ATOM	2882	1HG2	VAL	C	137	28.654	106.853	-24.861	1.00	0.00	H
ATOM	2883	2HG2	VAL	C	137	27.625	105.852	-23.828	1.00	0.00	H
ATOM	2884	3HG2	VAL	C	137	26.946	106.617	-25.276	1.00	0.00	H
ATOM	2885	N	THR	C	138	24.993	104.612	-25.025	1.00	0.00	N
ATOM	2886	H	THR	C	138	25.310	104.515	-24.066	1.00	0.00	H
ATOM	2887	CA	THR	C	138	23.741	105.373	-25.245	1.00	0.00	C
ATOM	2888	HA	THR	C	138	23.783	105.844	-26.226	1.00	0.00	H
ATOM	2889	C	THR	C	138	23.613	106.468	-24.182	1.00	0.00	C
ATOM	2890	O	THR	C	138	24.192	106.352	-23.102	1.00	0.00	O
ATOM	2891	CB	THR	C	138	22.491	104.474	-25.209	1.00	0.00	C
ATOM	2892	HB	THR	C	138	22.391	104.043	-24.216	1.00	0.00	H
ATOM	2893	OG1	THR	C	138	22.595	103.433	-26.143	1.00	0.00	O
ATOM	2894	HG1	THR	C	138	21.885	102.814	-25.937	1.00	0.00	H
ATOM	2895	CG2	THR	C	138	21.202	105.214	-25.577	1.00	0.00	C
ATOM	2896	1HG2	THR	C	138	20.873	105.829	-24.739	1.00	0.00	H
ATOM	2897	2HG2	THR	C	138	20.407	104.500	-25.784	1.00	0.00	H
ATOM	2898	3HG2	THR	C	138	21.356	105.826	-26.465	1.00	0.00	H
ATOM	2899	N	ILE	C	139	22.885	107.552	-24.479	1.00	0.00	N
ATOM	2900	H	ILE	C	139	22.385	107.567	-25.356	1.00	0.00	H
ATOM	2901	CA	ILE	C	139	22.809	108.759	-23.643	1.00	0.00	C
ATOM	2902	HA	ILE	C	139	23.008	108.468	-22.611	1.00	0.00	H
ATOM	2903	C	ILE	C	139	21.418	109.413	-23.665	1.00	0.00	C
ATOM	2904	O	ILE	C	139	20.865	109.740	-24.714	1.00	0.00	O
ATOM	2905	CB	ILE	C	139	23.924	109.748	-24.065	1.00	0.00	C
ATOM	2906	HB	ILE	C	139	24.873	109.222	-23.940	1.00	0.00	H
ATOM	2907	CG1	ILE	C	139	23.961	110.997	-23.158	1.00	0.00	C
ATOM	2908	1HG1	ILE	C	139	23.128	111.656	-23.402	1.00	0.00	H
ATOM	2909	2HG1	ILE	C	139	23.845	110.681	-22.123	1.00	0.00	H
ATOM	2910	CG2	ILE	C	139	23.821	110.171	-25.543	1.00	0.00	C
ATOM	2911	1HG2	ILE	C	139	24.695	110.751	-25.812	1.00	0.00	H
ATOM	2912	2HG2	ILE	C	139	22.937	110.785	-25.714	1.00	0.00	H
ATOM	2913	3HG2	ILE	C	139	23.782	109.300	-26.196	1.00	0.00	H
ATOM	2914	CD1	ILE	C	139	25.272	111.792	-23.272	1.00	0.00	C
ATOM	2915	1HD1	ILE	C	139	26.122	111.139	-23.069	1.00	0.00	H
ATOM	2916	2HD1	ILE	C	139	25.273	112.602	-22.546	1.00	0.00	H
ATOM	2917	3HD1	ILE	C	139	25.376	112.225	-24.266	1.00	0.00	H
ATOM	2918	N	LEU	C	140	20.879	109.691	-22.478	1.00	0.00	N
ATOM	2919	H	LEU	C	140	21.379	109.378	-21.652	1.00	0.00	H
ATOM	2920	CA	LEU	C	140	19.740	110.574	-22.261	1.00	0.00	C
ATOM	2921	HA	LEU	C	140	19.128	110.546	-23.163	1.00	0.00	H
ATOM	2922	C	LEU	C	140	20.220	112.019	-22.061	1.00	0.00	C
ATOM	2923	O	LEU	C	140	20.359	112.529	-20.945	1.00	0.00	O
ATOM	2924	CB	LEU	C	140	18.872	110.059	-21.096	1.00	0.00	C
ATOM	2925	1HB	LEU	C	140	18.573	109.031	-21.312	1.00	0.00	H
ATOM	2926	2HB	LEU	C	140	19.478	110.052	-20.190	1.00	0.00	H
ATOM	2927	CG	LEU	C	140	17.608	110.904	-20.829	1.00	0.00	C
ATOM	2928	HG	LEU	C	140	17.904	111.900	-20.508	1.00	0.00	H
ATOM	2929	CD1	LEU	C	140	16.706	111.053	-22.061	1.00	0.00	C
ATOM	2930	1HD1	LEU	C	140	17.214	111.632	-22.830	1.00	0.00	H
ATOM	2931	2HD1	LEU	C	140	15.785	111.563	-21.785	1.00	0.00	H
ATOM	2932	3HD1	LEU	C	140	16.464	110.063	-22.451	1.00	0.00	H
ATOM	2933	CD2	LEU	C	140	16.770	110.300	-19.706	1.00	0.00	C
ATOM	2934	1HD2	LEU	C	140	16.486	109.275	-19.949	1.00	0.00	H
ATOM	2935	2HD2	LEU	C	140	15.875	110.893	-19.530	1.00	0.00	H
ATOM	2936	3HD2	LEU	C	140	17.351	110.295	-18.782	1.00	0.00	H
ATOM	2937	N	THR	C	141	20.407	112.735	-23.169	1.00	0.00	N
ATOM	2938	H	THR	C	141	20.438	112.247	-24.058	1.00	0.00	H
ATOM	2939	CA	THR	C	141	20.280	114.199	-23.171	1.00	0.00	C
ATOM	2940	HA	THR	C	141	20.952	114.600	-22.420	1.00	0.00	H
ATOM	2941	C	THR	C	141	18.841	114.562	-22.779	1.00	0.00	C
ATOM	2942	O	THR	C	141	17.957	114.592	-23.633	1.00	0.00	O
ATOM	2943	CB	THR	C	141	20.676	114.808	-24.525	1.00	0.00	C
ATOM	2944	HB	THR	C	141	19.964	114.489	-25.287	1.00	0.00	H
ATOM	2945	OG1	THR	C	141	21.953	114.362	-24.900	1.00	0.00	O
ATOM	2946	HG1	THR	C	141	22.610	114.738	-24.304	1.00	0.00	H
ATOM	2947	CG2	THR	C	141	20.732	116.336	-24.499	1.00	0.00	C
ATOM	2948	1HG2	THR	C	141	19.754	116.745	-24.246	1.00	0.00	H
ATOM	2949	2HG2	THR	C	141	21.021	116.699	-25.486	1.00	0.00	H



ATOM	2950	3HG2	THR	C	141	21.469	116.673	-23.771	1.00	0.00	H
ATOM	2951	N	ASP	C	142	18.591	114.727	-21.476	1.00	0.00	N
ATOM	2952	H	ASP	C	142	19.366	114.490	-20.869	1.00	0.00	H
ATOM	2953	CA	ASP	C	142	17.279	114.825	-20.803	1.00	0.00	C
ATOM	2954	HA	ASP	C	142	16.853	113.822	-20.815	1.00	0.00	H
ATOM	2955	C	ASP	C	142	16.191	115.712	-21.474	1.00	0.00	C
ATOM	2956	O	ASP	C	142	16.450	116.565	-22.328	1.00	0.00	O
ATOM	2957	CB	ASP	C	142	17.529	115.143	-19.309	1.00	0.00	C
ATOM	2958	1HB	ASP	C	142	17.675	114.204	-18.773	1.00	0.00	H
ATOM	2959	2HB	ASP	C	142	18.444	115.716	-19.193	1.00	0.00	H
ATOM	2960	CG	ASP	C	142	16.387	115.921	-18.664	1.00	0.00	C
ATOM	2961	OD1	ASP	C	142	15.385	115.290	-18.279	1.00	0.00	O
ATOM	2962	OD2	ASP	C	142	16.380	117.169	-18.743	1.00	0.00	O
ATOM	2963	N	LYS	C	143	14.923	115.479	-21.095	1.00	0.00	N
ATOM	2964	H	LYS	C	143	14.804	114.857	-20.297	1.00	0.00	H
ATOM	2965	CA	LYS	C	143	13.723	116.162	-21.615	1.00	0.00	C
ATOM	2966	HA	LYS	C	143	14.049	117.033	-22.180	1.00	0.00	H
ATOM	2967	C	LYS	C	143	12.788	116.722	-20.520	1.00	0.00	C
ATOM	2968	O	LYS	C	143	11.702	117.193	-20.849	1.00	0.00	O
ATOM	2969	CB	LYS	C	143	12.958	115.195	-22.552	1.00	0.00	C
ATOM	2970	1HB	LYS	C	143	13.594	114.371	-22.874	1.00	0.00	H
ATOM	2971	2HB	LYS	C	143	12.142	114.740	-21.986	1.00	0.00	H
ATOM	2972	CG	LYS	C	143	12.363	115.897	-23.788	1.00	0.00	C
ATOM	2973	1HG	LYS	C	143	11.388	115.452	-23.991	1.00	0.00	H
ATOM	2974	2HG	LYS	C	143	12.190	116.950	-23.561	1.00	0.00	H
ATOM	2975	CD	LYS	C	143	13.190	115.795	-25.086	1.00	0.00	C
ATOM	2976	1HD	LYS	C	143	13.110	114.781	-25.483	1.00	0.00	H
ATOM	2977	2HD	LYS	C	143	12.727	116.460	-25.817	1.00	0.00	H
ATOM	2978	CE	LYS	C	143	14.670	116.187	-24.959	1.00	0.00	C
ATOM	2979	1HE	LYS	C	143	15.005	116.621	-25.905	1.00	0.00	H
ATOM	2980	2HE	LYS	C	143	14.777	116.951	-24.183	1.00	0.00	H
ATOM	2981	NZ	LYS	C	143	15.525	115.020	-24.637	1.00	0.00	N
ATOM	2982	1HZ	LYS	C	143	16.468	115.313	-24.365	1.00	0.00	H
ATOM	2983	2HZ	LYS	C	143	15.620	114.373	-25.407	1.00	0.00	H
ATOM	2984	3HZ	LYS	C	143	15.186	114.527	-23.825	1.00	0.00	H
ATOM	2985	N	PHE	C	144	13.178	116.667	-19.245	1.00	0.00	N
ATOM	2986	H	PHE	C	144	14.104	116.297	-19.045	1.00	0.00	H
ATOM	2987	CA	PHE	C	144	12.307	116.887	-18.084	1.00	0.00	C
ATOM	2988	HA	PHE	C	144	11.446	117.489	-18.373	1.00	0.00	H
ATOM	2989	C	PHE	C	144	12.998	117.626	-16.923	1.00	0.00	C
ATOM	2990	O	PHE	C	144	12.433	118.598	-16.419	1.00	0.00	O
ATOM	2991	CB	PHE	C	144	11.801	115.510	-17.615	1.00	0.00	C
ATOM	2992	1HB	PHE	C	144	11.123	115.110	-18.370	1.00	0.00	H
ATOM	2993	2HB	PHE	C	144	12.651	114.827	-17.549	1.00	0.00	H
ATOM	2994	CG	PHE	C	144	11.091	115.515	-16.274	1.00	0.00	C
ATOM	2995	CD1	PHE	C	144	9.782	116.021	-16.166	1.00	0.00	C
ATOM	2996	HD1	PHE	C	144	9.277	116.396	-17.043	1.00	0.00	H
ATOM	2997	CD2	PHE	C	144	11.753	115.037	-15.126	1.00	0.00	C
ATOM	2998	HD2	PHE	C	144	12.764	114.653	-15.199	1.00	0.00	H
ATOM	2999	CE1	PHE	C	144	9.133	116.039	-14.917	1.00	0.00	C
ATOM	3000	HE1	PHE	C	144	8.125	116.418	-14.838	1.00	0.00	H
ATOM	3001	CE2	PHE	C	144	11.105	115.057	-13.878	1.00	0.00	C
ATOM	3002	HE2	PHE	C	144	11.619	114.680	-13.005	1.00	0.00	H
ATOM	3003	CZ	PHE	C	144	9.797	115.561	-13.773	1.00	0.00	C
ATOM	3004	HZ	PHE	C	144	9.299	115.566	-12.814	1.00	0.00	H
ATOM	3005	N	GLY	C	145	14.205	117.218	-16.514	1.00	0.00	N
ATOM	3006	H	GLY	C	145	14.646	116.441	-17.008	1.00	0.00	H
ATOM	3007	CA	GLY	C	145	14.848	117.726	-15.296	1.00	0.00	C
ATOM	3008	1HA	GLY	C	145	14.547	118.759	-15.121	1.00	0.00	H
ATOM	3009	2HA	GLY	C	145	14.498	117.129	-14.453	1.00	0.00	H
ATOM	3010	C	GLY	C	145	16.376	117.676	-15.301	1.00	0.00	C
ATOM	3011	O	GLY	C	145	16.993	118.741	-15.364	1.00	0.00	O
ATOM	3012	N	GLN	C	146	16.956	116.472	-15.266	1.00	0.00	N
ATOM	3013	H	GLN	C	146	16.325	115.676	-15.298	1.00	0.00	H
ATOM	3014	CA	GLN	C	146	18.364	116.152	-14.946	1.00	0.00	C
ATOM	3015	HA	GLN	C	146	18.495	116.286	-13.873	1.00	0.00	H
ATOM	3016	C	GLN	C	146	19.436	116.999	-15.669	1.00	0.00	C
ATOM	3017	O	GLN	C	146	19.182	117.518	-16.761	1.00	0.00	O
ATOM	3018	CB	GLN	C	146	18.638	114.670	-15.280	1.00	0.00	C
ATOM	3019	1HB	GLN	C	146	18.494	114.502	-16.349	1.00	0.00	H
ATOM	3020	2HB	GLN	C	146	19.687	114.463	-15.068	1.00	0.00	H
ATOM	3021	CG	GLN	C	146	17.820	113.638	-14.492	1.00	0.00	C
ATOM	3022	1HG	GLN	C	146	18.404	112.719	-14.459	1.00	0.00	H
ATOM	3023	2HG	GLN	C	146	17.675	113.978	-13.466	1.00	0.00	H
ATOM	3024	CD	GLN	C	146	16.471	113.316	-15.127	1.00	0.00	C
ATOM	3025	OE1	GLN	C	146	15.502	114.055	-14.989	1.00	0.00	O
ATOM	3026	NE2	GLN	C	146	16.364	112.225	-15.847	1.00	0.00	N

ATOM	3027	1HE2	GLN	C	146	15.481	111.989	-16.252	1.00	0.00	H
ATOM	3028	2HE2	GLN	C	146	17.168	111.593	-15.962	1.00	0.00	H
ATOM	3029	N	PRO	C	147	20.679	117.101	-15.151	1.00	0.00	N
ATOM	3030	CA	PRO	C	147	21.850	117.442	-15.969	1.00	0.00	C
ATOM	3031	HA	PRO	C	147	21.798	118.500	-16.222	1.00	0.00	H
ATOM	3032	C	PRO	C	147	21.864	116.598	-17.261	1.00	0.00	C
ATOM	3033	O	PRO	C	147	21.684	115.386	-17.213	1.00	0.00	O
ATOM	3034	CB	PRO	C	147	23.070	117.204	-15.069	1.00	0.00	C
ATOM	3035	1HB	PRO	C	147	23.493	116.218	-15.254	1.00	0.00	H
ATOM	3036	2HB	PRO	C	147	23.835	117.966	-15.222	1.00	0.00	H
ATOM	3037	CG	PRO	C	147	22.510	117.251	-13.646	1.00	0.00	C
ATOM	3038	1HG	PRO	C	147	23.089	116.633	-12.959	1.00	0.00	H
ATOM	3039	2HG	PRO	C	147	22.481	118.285	-13.298	1.00	0.00	H
ATOM	3040	CD	PRO	C	147	21.083	116.733	-13.801	1.00	0.00	C
ATOM	3041	1HD	PRO	C	147	21.060	115.651	-13.678	1.00	0.00	H
ATOM	3042	2HD	PRO	C	147	20.441	117.191	-13.052	1.00	0.00	H
ATOM	3043	N	LYS	C	148	21.932	117.235	-18.438	1.00	0.00	N
ATOM	3044	H	LYS	C	148	22.194	118.205	-18.440	1.00	0.00	H
ATOM	3045	CA	LYS	C	148	21.398	116.646	-19.683	1.00	0.00	C
ATOM	3046	HA	LYS	C	148	20.578	115.987	-19.397	1.00	0.00	H
ATOM	3047	C	LYS	C	148	22.386	115.706	-20.402	1.00	0.00	C
ATOM	3048	O	LYS	C	148	22.752	115.980	-21.541	1.00	0.00	O
ATOM	3049	CB	LYS	C	148	20.794	117.714	-20.632	1.00	0.00	C
ATOM	3050	1HB	LYS	C	148	21.554	118.431	-20.929	1.00	0.00	H
ATOM	3051	2HB	LYS	C	148	20.485	117.193	-21.540	1.00	0.00	H
ATOM	3052	CG	LYS	C	148	19.541	118.464	-20.142	1.00	0.00	C
ATOM	3053	1HG	LYS	C	148	19.038	118.876	-21.018	1.00	0.00	H
ATOM	3054	2HG	LYS	C	148	18.864	117.751	-19.687	1.00	0.00	H
ATOM	3055	CD	LYS	C	148	19.794	119.625	-19.166	1.00	0.00	C
ATOM	3056	1HD	LYS	C	148	20.322	119.271	-18.284	1.00	0.00	H
ATOM	3057	2HD	LYS	C	148	20.417	120.369	-19.663	1.00	0.00	H
ATOM	3058	CE	LYS	C	148	18.488	120.302	-18.722	1.00	0.00	C
ATOM	3059	1HE	LYS	C	148	18.745	121.153	-18.088	1.00	0.00	H
ATOM	3060	2HE	LYS	C	148	17.958	120.669	-19.604	1.00	0.00	H
ATOM	3061	NZ	LYS	C	148	17.615	119.378	-17.963	1.00	0.00	N
ATOM	3062	1HZ	LYS	C	148	18.130	118.857	-17.252	1.00	0.00	H
ATOM	3063	2HZ	LYS	C	148	17.228	118.623	-18.536	1.00	0.00	H
ATOM	3064	3HZ	LYS	C	148	16.846	119.810	-17.476	1.00	0.00	H
ATOM	3065	N	GLY	C	149	22.770	114.592	-19.773	1.00	0.00	N
ATOM	3066	H	GLY	C	149	22.473	114.461	-18.814	1.00	0.00	H
ATOM	3067	CA	GLY	C	149	23.609	113.572	-20.423	1.00	0.00	C
ATOM	3068	1HA	GLY	C	149	23.157	113.321	-21.383	1.00	0.00	H
ATOM	3069	2HA	GLY	C	149	24.590	114.005	-20.623	1.00	0.00	H
ATOM	3070	C	GLY	C	149	23.826	112.246	-19.678	1.00	0.00	C
ATOM	3071	O	GLY	C	149	24.882	111.647	-19.850	1.00	0.00	O
ATOM	3072	N	PHE	C	150	22.902	111.802	-18.820	1.00	0.00	N
ATOM	3073	H	PHE	C	150	22.000	112.251	-18.807	1.00	0.00	H
ATOM	3074	CA	PHE	C	150	23.028	110.510	-18.117	1.00	0.00	C
ATOM	3075	HA	PHE	C	150	23.999	110.461	-17.622	1.00	0.00	H
ATOM	3076	C	PHE	C	150	22.969	109.350	-19.127	1.00	0.00	C
ATOM	3077	O	PHE	C	150	22.231	109.434	-20.106	1.00	0.00	O
ATOM	3078	CB	PHE	C	150	21.933	110.380	-17.047	1.00	0.00	C
ATOM	3079	1HB	PHE	C	150	20.975	110.682	-17.473	1.00	0.00	H
ATOM	3080	2HB	PHE	C	150	21.852	109.327	-16.772	1.00	0.00	H
ATOM	3081	CG	PHE	C	150	22.163	111.181	-15.777	1.00	0.00	C
ATOM	3082	CD1	PHE	C	150	22.223	110.533	-14.532	1.00	0.00	C
ATOM	3083	HD1	PHE	C	150	22.114	109.460	-14.491	1.00	0.00	H
ATOM	3084	CD2	PHE	C	150	22.268	112.581	-15.822	1.00	0.00	C
ATOM	3085	HD2	PHE	C	150	22.185	113.090	-16.763	1.00	0.00	H
ATOM	3086	CE1	PHE	C	150	22.374	111.280	-13.347	1.00	0.00	C
ATOM	3087	HE1	PHE	C	150	22.361	110.788	-12.384	1.00	0.00	H
ATOM	3088	CE2	PHE	C	150	22.428	113.325	-14.645	1.00	0.00	C
ATOM	3089	HE2	PHE	C	150	22.471	114.395	-14.698	1.00	0.00	H
ATOM	3090	CZ	PHE	C	150	22.464	112.678	-13.403	1.00	0.00	C
ATOM	3091	HZ	PHE	C	150	22.528	113.250	-12.487	1.00	0.00	H
ATOM	3092	N	ALA	C	151	23.764	108.299	-18.939	1.00	0.00	N
ATOM	3093	H	ALA	C	151	24.255	108.210	-18.055	1.00	0.00	H
ATOM	3094	CA	ALA	C	151	24.166	107.392	-20.021	1.00	0.00	C
ATOM	3095	HA	ALA	C	151	23.351	107.273	-20.735	1.00	0.00	H
ATOM	3096	C	ALA	C	151	24.535	105.981	-19.523	1.00	0.00	C
ATOM	3097	O	ALA	C	151	24.558	105.724	-18.320	1.00	0.00	O
ATOM	3098	CB	ALA	C	151	25.364	108.065	-20.724	1.00	0.00	C
ATOM	3099	1HB	ALA	C	151	25.779	107.422	-21.499	1.00	0.00	H
ATOM	3100	2HB	ALA	C	151	26.151	108.287	-20.006	1.00	0.00	H
ATOM	3101	3HB	ALA	C	151	25.047	108.998	-21.182	1.00	0.00	H
ATOM	3102	N	TYR	C	152	24.919	105.094	-20.445	1.00	0.00	N
ATOM	3103	H	TYR	C	152	24.856	105.360	-21.423	1.00	0.00	H

ATOM	3104	CA	TYR	C	152	25.610	103.838	-20.133	1.00	0.00	C
ATOM	3105	HA	TYR	C	152	26.094	103.957	-19.166	1.00	0.00	H
ATOM	3106	C	TYR	C	152	26.718	103.541	-21.163	1.00	0.00	C
ATOM	3107	O	TYR	C	152	26.678	104.071	-22.275	1.00	0.00	O
ATOM	3108	CB	TYR	C	152	24.597	102.675	-20.022	1.00	0.00	C
ATOM	3109	1HB	TYR	C	152	24.866	102.084	-19.148	1.00	0.00	H
ATOM	3110	2HB	TYR	C	152	23.596	103.067	-19.845	1.00	0.00	H
ATOM	3111	CG	TYR	C	152	24.576	101.751	-21.228	1.00	0.00	C
ATOM	3112	CD1	TYR	C	152	25.331	100.561	-21.205	1.00	0.00	C
ATOM	3113	HD1	TYR	C	152	25.833	100.254	-20.297	1.00	0.00	H
ATOM	3114	CD2	TYR	C	152	23.948	102.163	-22.419	1.00	0.00	C
ATOM	3115	HD2	TYR	C	152	23.376	103.083	-22.438	1.00	0.00	H
ATOM	3116	CE1	TYR	C	152	25.520	99.820	-22.386	1.00	0.00	C
ATOM	3117	HE1	TYR	C	152	26.127	98.930	-22.377	1.00	0.00	H
ATOM	3118	CE2	TYR	C	152	24.138	101.419	-23.602	1.00	0.00	C
ATOM	3119	HE2	TYR	C	152	23.711	101.746	-24.538	1.00	0.00	H
ATOM	3120	CZ	TYR	C	152	24.942	100.261	-23.594	1.00	0.00	C
ATOM	3121	OH	TYR	C	152	25.169	99.586	-24.749	1.00	0.00	O
ATOM	3122	HH	TYR	C	152	25.721	98.810	-24.624	1.00	0.00	H
ATOM	3123	N	VAL	C	153	27.671	102.671	-20.807	1.00	0.00	N
ATOM	3124	H	VAL	C	153	27.627	102.291	-19.865	1.00	0.00	H
ATOM	3125	CA	VAL	C	153	28.681	102.078	-21.712	1.00	0.00	C
ATOM	3126	HA	VAL	C	153	28.276	102.094	-22.721	1.00	0.00	H
ATOM	3127	C	VAL	C	153	28.957	100.601	-21.365	1.00	0.00	C
ATOM	3128	O	VAL	C	153	28.552	100.143	-20.294	1.00	0.00	O
ATOM	3129	CB	VAL	C	153	30.002	102.882	-21.712	1.00	0.00	C
ATOM	3130	HB	VAL	C	153	30.672	102.414	-22.429	1.00	0.00	H
ATOM	3131	CG1	VAL	C	153	29.831	104.337	-22.155	1.00	0.00	C
ATOM	3132	1HG1	VAL	C	153	29.263	104.901	-21.416	1.00	0.00	H
ATOM	3133	2HG1	VAL	C	153	29.298	104.348	-23.099	1.00	0.00	H
ATOM	3134	3HG1	VAL	C	153	30.807	104.799	-22.297	1.00	0.00	H
ATOM	3135	CG2	VAL	C	153	30.701	102.908	-20.348	1.00	0.00	C
ATOM	3136	1HG2	VAL	C	153	30.057	103.379	-19.606	1.00	0.00	H
ATOM	3137	2HG2	VAL	C	153	31.632	103.470	-20.416	1.00	0.00	H
ATOM	3138	3HG2	VAL	C	153	30.939	101.892	-20.039	1.00	0.00	H
ATOM	3139	N	GLU	C	154	29.655	99.843	-22.225	1.00	0.00	N
ATOM	3140	H	GLU	C	154	29.927	100.238	-23.118	1.00	0.00	H
ATOM	3141	CA	GLU	C	154	30.022	98.431	-21.963	1.00	0.00	C
ATOM	3142	HA	GLU	C	154	30.174	98.324	-20.891	1.00	0.00	H
ATOM	3143	C	GLU	C	154	31.342	97.952	-22.611	1.00	0.00	C
ATOM	3144	O	GLU	C	154	31.889	98.622	-23.492	1.00	0.00	O
ATOM	3145	CB	GLU	C	154	28.848	97.504	-22.358	1.00	0.00	C
ATOM	3146	1HB	GLU	C	154	29.071	96.482	-22.055	1.00	0.00	H
ATOM	3147	2HB	GLU	C	154	27.980	97.811	-21.780	1.00	0.00	H
ATOM	3148	CG	GLU	C	154	28.437	97.482	-23.839	1.00	0.00	C
ATOM	3149	1HG	GLU	C	154	27.504	96.921	-23.923	1.00	0.00	H
ATOM	3150	2HG	GLU	C	154	28.226	98.503	-24.167	1.00	0.00	H
ATOM	3151	CD	GLU	C	154	29.484	96.833	-24.755	1.00	0.00	C
ATOM	3152	OE1	GLU	C	154	29.853	97.488	-25.754	1.00	0.00	O
ATOM	3153	OE2	GLU	C	154	29.938	95.706	-24.466	1.00	0.00	O
ATOM	3154	N	PHE	C	155	31.824	96.768	-22.204	1.00	0.00	N
ATOM	3155	H	PHE	C	155	31.338	96.292	-21.450	1.00	0.00	H
ATOM	3156	CA	PHE	C	155	32.727	95.942	-23.018	1.00	0.00	C
ATOM	3157	HA	PHE	C	155	32.509	96.165	-24.064	1.00	0.00	H
ATOM	3158	C	PHE	C	155	32.508	94.432	-22.813	1.00	0.00	C
ATOM	3159	O	PHE	C	155	32.325	93.947	-21.692	1.00	0.00	O
ATOM	3160	CB	PHE	C	155	34.198	96.289	-22.746	1.00	0.00	C
ATOM	3161	1HB	PHE	C	155	34.286	97.361	-22.578	1.00	0.00	H
ATOM	3162	2HB	PHE	C	155	34.526	95.797	-21.829	1.00	0.00	H
ATOM	3163	CG	PHE	C	155	35.117	95.906	-23.895	1.00	0.00	C
ATOM	3164	CD1	PHE	C	155	35.207	96.740	-25.022	1.00	0.00	C
ATOM	3165	HD1	PHE	C	155	34.608	97.630	-25.061	1.00	0.00	H
ATOM	3166	CD2	PHE	C	155	35.852	94.709	-23.872	1.00	0.00	C
ATOM	3167	HD2	PHE	C	155	35.771	94.052	-23.020	1.00	0.00	H
ATOM	3168	CE1	PHE	C	155	36.044	96.409	-26.102	1.00	0.00	C
ATOM	3169	HE1	PHE	C	155	36.094	97.054	-26.969	1.00	0.00	H
ATOM	3170	CE2	PHE	C	155	36.693	94.370	-24.950	1.00	0.00	C
ATOM	3171	HE2	PHE	C	155	37.265	93.453	-24.930	1.00	0.00	H
ATOM	3172	CZ	PHE	C	155	36.793	95.222	-26.063	1.00	0.00	C
ATOM	3173	HZ	PHE	C	155	37.429	94.952	-26.895	1.00	0.00	H
ATOM	3174	N	VAL	C	156	32.602	93.677	-23.913	1.00	0.00	N
ATOM	3175	H	VAL	C	156	32.679	94.167	-24.791	1.00	0.00	H
ATOM	3176	CA	VAL	C	156	32.382	92.221	-23.973	1.00	0.00	C
ATOM	3177	HA	VAL	C	156	31.354	92.031	-23.667	1.00	0.00	H
ATOM	3178	C	VAL	C	156	33.284	91.431	-23.014	1.00	0.00	C
ATOM	3179	O	VAL	C	156	32.763	90.629	-22.249	1.00	0.00	O
ATOM	3180	CB	VAL	C	156	32.532	91.708	-25.422	1.00	0.00	C

ATOM	3181	HB	VAL	C	156	33.557	91.874	-25.755	1.00	0.00	H
ATOM	3182	CG1	VAL	C	156	32.217	90.211	-25.537	1.00	0.00	C
ATOM	3183	1HG1	VAL	C	156	32.926	89.624	-24.952	1.00	0.00	H
ATOM	3184	2HG1	VAL	C	156	32.298	89.892	-26.576	1.00	0.00	H
ATOM	3185	3HG1	VAL	C	156	31.207	90.008	-25.180	1.00	0.00	H
ATOM	3186	CG2	VAL	C	156	31.585	92.451	-26.378	1.00	0.00	C
ATOM	3187	1HG2	VAL	C	156	30.554	92.347	-26.039	1.00	0.00	H
ATOM	3188	2HG2	VAL	C	156	31.673	92.037	-27.383	1.00	0.00	H
ATOM	3189	3HG2	VAL	C	156	31.835	93.510	-26.428	1.00	0.00	H
ATOM	3190	N	GLU	C	157	34.594	91.687	-22.986	1.00	0.00	N
ATOM	3191	H	GLU	C	157	34.959	92.366	-23.631	1.00	0.00	H
ATOM	3192	CA	GLU	C	157	35.546	91.014	-22.075	1.00	0.00	C
ATOM	3193	HA	GLU	C	157	35.257	89.962	-22.005	1.00	0.00	H
ATOM	3194	C	GLU	C	157	35.528	91.559	-20.632	1.00	0.00	C
ATOM	3195	O	GLU	C	157	35.223	92.730	-20.382	1.00	0.00	O
ATOM	3196	CB	GLU	C	157	36.974	91.083	-22.654	1.00	0.00	C
ATOM	3197	1HB	GLU	C	157	37.010	91.836	-23.439	1.00	0.00	H
ATOM	3198	2HB	GLU	C	157	37.685	91.392	-21.885	1.00	0.00	H
ATOM	3199	CG	GLU	C	157	37.433	89.742	-23.247	1.00	0.00	C
ATOM	3200	1HG	GLU	C	157	36.649	89.352	-23.901	1.00	0.00	H
ATOM	3201	2HG	GLU	C	157	38.313	89.938	-23.864	1.00	0.00	H
ATOM	3202	CD	GLU	C	157	37.792	88.701	-22.173	1.00	0.00	C
ATOM	3203	OE1	GLU	C	157	38.639	87.845	-22.483	1.00	0.00	O
ATOM	3204	OE2	GLU	C	157	37.240	88.811	-21.052	1.00	0.00	O
ATOM	3205	N	ILE	C	158	35.851	90.692	-19.669	1.00	0.00	N
ATOM	3206	H	ILE	C	158	36.221	89.788	-19.982	1.00	0.00	H
ATOM	3207	CA	ILE	C	158	35.687	90.887	-18.225	1.00	0.00	C
ATOM	3208	HA	ILE	C	158	34.719	91.339	-18.038	1.00	0.00	H
ATOM	3209	C	ILE	C	158	36.727	91.869	-17.674	1.00	0.00	C
ATOM	3210	O	ILE	C	158	36.336	92.866	-17.061	1.00	0.00	O
ATOM	3211	CB	ILE	C	158	35.699	89.514	-17.502	1.00	0.00	C
ATOM	3212	HB	ILE	C	158	36.534	88.919	-17.880	1.00	0.00	H
ATOM	3213	CG1	ILE	C	158	34.384	88.715	-17.699	1.00	0.00	C
ATOM	3214	1HG1	ILE	C	158	34.460	87.792	-17.121	1.00	0.00	H
ATOM	3215	2HG1	ILE	C	158	33.550	89.289	-17.294	1.00	0.00	H
ATOM	3216	CG2	ILE	C	158	35.884	89.675	-15.980	1.00	0.00	C
ATOM	3217	1HG2	ILE	C	158	36.871	90.081	-15.754	1.00	0.00	H
ATOM	3218	2HG2	ILE	C	158	35.829	88.699	-15.494	1.00	0.00	H
ATOM	3219	3HG2	ILE	C	158	35.118	90.330	-15.564	1.00	0.00	H
ATOM	3220	CD1	ILE	C	158	34.034	88.304	-19.136	1.00	0.00	C
ATOM	3221	1HD1	ILE	C	158	33.721	89.169	-19.719	1.00	0.00	H
ATOM	3222	2HD1	ILE	C	158	33.208	87.593	-19.114	1.00	0.00	H
ATOM	3223	3HD1	ILE	C	158	34.895	87.829	-19.608	1.00	0.00	H
ATOM	3224	N	ASP	C	159	38.025	91.656	-17.916	1.00	0.00	N
ATOM	3225	H	ASP	C	159	38.307	90.809	-18.396	1.00	0.00	H
ATOM	3226	CA	ASP	C	159	39.059	92.548	-17.359	1.00	0.00	C
ATOM	3227	HA	ASP	C	159	38.855	92.639	-16.295	1.00	0.00	H
ATOM	3228	C	ASP	C	159	39.011	93.963	-17.975	1.00	0.00	C
ATOM	3229	O	ASP	C	159	39.293	94.972	-17.323	1.00	0.00	O
ATOM	3230	CB	ASP	C	159	40.461	91.937	-17.484	1.00	0.00	C
ATOM	3231	1HB	ASP	C	159	40.444	90.914	-17.105	1.00	0.00	H
ATOM	3232	2HB	ASP	C	159	40.756	91.914	-18.536	1.00	0.00	H
ATOM	3233	CG	ASP	C	159	41.472	92.753	-16.663	1.00	0.00	C
ATOM	3234	OD1	ASP	C	159	42.495	93.186	-17.239	1.00	0.00	O
ATOM	3235	OD2	ASP	C	159	41.176	93.025	-15.475	1.00	0.00	O
ATOM	3236	N	ALA	C	160	38.557	94.070	-19.225	1.00	0.00	N
ATOM	3237	H	ALA	C	160	38.303	93.217	-19.702	1.00	0.00	H
ATOM	3238	CA	ALA	C	160	38.331	95.348	-19.890	1.00	0.00	C
ATOM	3239	HA	ALA	C	160	39.278	95.885	-19.959	1.00	0.00	H
ATOM	3240	C	ALA	C	160	37.345	96.241	-19.117	1.00	0.00	C
ATOM	3241	O	ALA	C	160	37.699	97.360	-18.729	1.00	0.00	O
ATOM	3242	CB	ALA	C	160	37.825	95.053	-21.297	1.00	0.00	C
ATOM	3243	1HB	ALA	C	160	37.498	95.982	-21.762	1.00	0.00	H
ATOM	3244	2HB	ALA	C	160	36.977	94.376	-21.238	1.00	0.00	H
ATOM	3245	3HB	ALA	C	160	38.613	94.592	-21.893	1.00	0.00	H
ATOM	3246	N	VAL	C	161	36.132	95.741	-18.837	1.00	0.00	N
ATOM	3247	H	VAL	C	161	35.904	94.806	-19.157	1.00	0.00	H
ATOM	3248	CA	VAL	C	161	35.156	96.482	-18.023	1.00	0.00	C
ATOM	3249	HA	VAL	C	161	35.119	97.489	-18.431	1.00	0.00	H
ATOM	3250	C	VAL	C	161	35.617	96.632	-16.566	1.00	0.00	C
ATOM	3251	O	VAL	C	161	35.398	97.694	-15.987	1.00	0.00	O
ATOM	3252	CB	VAL	C	161	33.724	95.924	-18.157	1.00	0.00	C
ATOM	3253	HB	VAL	C	161	33.492	95.863	-19.221	1.00	0.00	H
ATOM	3254	CG1	VAL	C	161	33.545	94.527	-17.563	1.00	0.00	C
ATOM	3255	1HG1	VAL	C	161	33.754	94.529	-16.493	1.00	0.00	H
ATOM	3256	2HG1	VAL	C	161	34.217	93.836	-18.066	1.00	0.00	H
ATOM	3257	3HG1	VAL	C	161	32.519	94.198	-17.723	1.00	0.00	H

ATOM	3258	CG2	VAL	C	161	32.698	96.874	-17.523	1.00	0.00	C
ATOM	3259	1HG2	VAL	C	161	32.860	96.956	-16.451	1.00	0.00	H
ATOM	3260	2HG2	VAL	C	161	31.693	96.490	-17.689	1.00	0.00	H
ATOM	3261	3HG2	VAL	C	161	32.775	97.859	-17.981	1.00	0.00	H
ATOM	3262	N	GLN	C	162	36.331	95.652	-15.995	1.00	0.00	N
ATOM	3263	H	GLN	C	162	36.468	94.787	-16.513	1.00	0.00	H
ATOM	3264	CA	GLN	C	162	36.940	95.742	-14.656	1.00	0.00	C
ATOM	3265	HA	GLN	C	162	36.141	95.873	-13.928	1.00	0.00	H
ATOM	3266	C	GLN	C	162	37.891	96.945	-14.504	1.00	0.00	C
ATOM	3267	O	GLN	C	162	37.926	97.577	-13.449	1.00	0.00	O
ATOM	3268	CB	GLN	C	162	37.647	94.413	-14.343	1.00	0.00	C
ATOM	3269	1HB	GLN	C	162	36.924	93.601	-14.442	1.00	0.00	H
ATOM	3270	2HB	GLN	C	162	38.445	94.265	-15.061	1.00	0.00	H
ATOM	3271	CG	GLN	C	162	38.273	94.345	-12.945	1.00	0.00	C
ATOM	3272	1HG	GLN	C	162	39.154	94.986	-12.906	1.00	0.00	H
ATOM	3273	2HG	GLN	C	162	37.549	94.697	-12.209	1.00	0.00	H
ATOM	3274	CD	GLN	C	162	38.683	92.922	-12.575	1.00	0.00	C
ATOM	3275	OE1	GLN	C	162	38.091	92.317	-11.696	1.00	0.00	O
ATOM	3276	NE2	GLN	C	162	39.672	92.331	-13.209	1.00	0.00	N
ATOM	3277	1HE2	GLN	C	162	39.885	91.389	-12.935	1.00	0.00	H
ATOM	3278	2HE2	GLN	C	162	40.188	92.762	-13.985	1.00	0.00	H
ATOM	3279	N	ASN	C	163	38.604	97.326	-15.569	1.00	0.00	N
ATOM	3280	H	ASN	C	163	38.596	96.717	-16.382	1.00	0.00	H
ATOM	3281	CA	ASN	C	163	39.398	98.556	-15.611	1.00	0.00	C
ATOM	3282	HA	ASN	C	163	39.828	98.742	-14.624	1.00	0.00	H
ATOM	3283	C	ASN	C	163	38.537	99.791	-15.965	1.00	0.00	C
ATOM	3284	O	ASN	C	163	38.634	100.833	-15.306	1.00	0.00	O
ATOM	3285	CB	ASN	C	163	40.556	98.346	-16.604	1.00	0.00	C
ATOM	3286	1HB	ASN	C	163	40.187	97.904	-17.530	1.00	0.00	H
ATOM	3287	2HB	ASN	C	163	41.004	99.309	-16.843	1.00	0.00	H
ATOM	3288	CG	ASN	C	163	41.658	97.467	-16.025	1.00	0.00	C
ATOM	3289	OD1	ASN	C	163	42.581	97.962	-15.396	1.00	0.00	O
ATOM	3290	ND2	ASN	C	163	41.596	96.173	-16.230	1.00	0.00	N
ATOM	3291	1HD2	ASN	C	163	42.299	95.550	-15.858	1.00	0.00	H
ATOM	3292	2HD2	ASN	C	163	40.805	95.735	-16.690	1.00	0.00	H
ATOM	3293	N	ALA	C	164	37.655	99.694	-16.968	1.00	0.00	N
ATOM	3294	H	ALA	C	164	37.600	98.816	-17.478	1.00	0.00	H
ATOM	3295	CA	ALA	C	164	36.802	100.805	-17.415	1.00	0.00	C
ATOM	3296	HA	ALA	C	164	37.453	101.647	-17.655	1.00	0.00	H
ATOM	3297	C	ALA	C	164	35.797	101.303	-16.351	1.00	0.00	C
ATOM	3298	O	ALA	C	164	35.413	102.475	-16.376	1.00	0.00	O
ATOM	3299	CB	ALA	C	164	36.080	100.397	-18.705	1.00	0.00	C
ATOM	3300	1HB	ALA	C	164	35.586	101.267	-19.139	1.00	0.00	H
ATOM	3301	2HB	ALA	C	164	35.330	99.639	-18.488	1.00	0.00	H
ATOM	3302	3HB	ALA	C	164	36.793	100.003	-19.431	1.00	0.00	H
ATOM	3303	N	LEU	C	165	35.398	100.457	-15.391	1.00	0.00	N
ATOM	3304	H	LEU	C	165	35.668	99.480	-15.486	1.00	0.00	H
ATOM	3305	CA	LEU	C	165	34.545	100.820	-14.248	1.00	0.00	C
ATOM	3306	HA	LEU	C	165	33.828	101.557	-14.607	1.00	0.00	H
ATOM	3307	C	LEU	C	165	35.305	101.491	-13.085	1.00	0.00	C
ATOM	3308	O	LEU	C	165	34.660	102.003	-12.166	1.00	0.00	O
ATOM	3309	CB	LEU	C	165	33.711	99.596	-13.802	1.00	0.00	C
ATOM	3310	1HB	LEU	C	165	32.873	99.951	-13.202	1.00	0.00	H
ATOM	3311	2HB	LEU	C	165	33.286	99.160	-14.707	1.00	0.00	H
ATOM	3312	CG	LEU	C	165	34.428	98.474	-13.016	1.00	0.00	C
ATOM	3313	HG	LEU	C	165	35.428	98.331	-13.414	1.00	0.00	H
ATOM	3314	CD1	LEU	C	165	34.518	98.737	-11.508	1.00	0.00	C
ATOM	3315	1HD1	LEU	C	165	35.131	99.607	-11.300	1.00	0.00	H
ATOM	3316	2HD1	LEU	C	165	34.988	97.882	-11.020	1.00	0.00	H
ATOM	3317	3HD1	LEU	C	165	33.523	98.887	-11.091	1.00	0.00	H
ATOM	3318	CD2	LEU	C	165	33.640	97.168	-13.158	1.00	0.00	C
ATOM	3319	1HD2	LEU	C	165	32.626	97.291	-12.779	1.00	0.00	H
ATOM	3320	2HD2	LEU	C	165	34.139	96.370	-12.607	1.00	0.00	H
ATOM	3321	3HD2	LEU	C	165	33.597	96.875	-14.205	1.00	0.00	H
ATOM	3322	N	LEU	C	166	36.644	101.520	-13.136	1.00	0.00	N
ATOM	3323	H	LEU	C	166	37.077	101.090	-13.946	1.00	0.00	H
ATOM	3324	CA	LEU	C	166	37.525	101.763	-11.983	1.00	0.00	C
ATOM	3325	HA	LEU	C	166	36.913	102.039	-11.124	1.00	0.00	H
ATOM	3326	C	LEU	C	166	38.553	102.897	-12.186	1.00	0.00	C
ATOM	3327	O	LEU	C	166	39.104	103.414	-11.215	1.00	0.00	O
ATOM	3328	CB	LEU	C	166	38.216	100.413	-11.690	1.00	0.00	C
ATOM	3329	1HB	LEU	C	166	37.449	99.642	-11.610	1.00	0.00	H
ATOM	3330	2HB	LEU	C	166	38.839	100.155	-12.549	1.00	0.00	H
ATOM	3331	CG	LEU	C	166	39.093	100.335	-10.429	1.00	0.00	C
ATOM	3332	HG	LEU	C	166	39.932	101.024	-10.519	1.00	0.00	H
ATOM	3333	CD1	LEU	C	166	38.311	100.661	-9.153	1.00	0.00	C
ATOM	3334	1HD1	LEU	C	166	37.997	101.703	-9.168	1.00	0.00	H

ATOM	3335	2HD1	LEU	C	166	38.949	100.504	-8.284	1.00	0.00	H
ATOM	3336	3HD1	LEU	C	166	37.438	100.012	-9.079	1.00	0.00	H
ATOM	3337	CD2	LEU	C	166	39.656	98.920	-10.296	1.00	0.00	C
ATOM	3338	1HD2	LEU	C	166	40.309	98.854	-9.427	1.00	0.00	H
ATOM	3339	2HD2	LEU	C	166	40.229	98.666	-11.188	1.00	0.00	H
ATOM	3340	3HD2	LEU	C	166	38.844	98.199	-10.192	1.00	0.00	H
ATOM	3341	N	LEU	C	167	38.801	103.319	-13.430	1.00	0.00	N
ATOM	3342	H	LEU	C	167	38.353	102.799	-14.175	1.00	0.00	H
ATOM	3343	CA	LEU	C	167	39.879	104.251	-13.810	1.00	0.00	C
ATOM	3344	HA	LEU	C	167	40.389	104.596	-12.911	1.00	0.00	H
ATOM	3345	C	LEU	C	167	39.329	105.523	-14.496	1.00	0.00	C
ATOM	3346	O	LEU	C	167	39.888	106.021	-15.473	1.00	0.00	O
ATOM	3347	CB	LEU	C	167	40.897	103.485	-14.681	1.00	0.00	C
ATOM	3348	1HB	LEU	C	167	40.387	103.157	-15.588	1.00	0.00	H
ATOM	3349	2HB	LEU	C	167	41.692	104.172	-14.973	1.00	0.00	H
ATOM	3350	CG	LEU	C	167	41.548	102.249	-14.024	1.00	0.00	C
ATOM	3351	HG	LEU	C	167	40.782	101.525	-13.749	1.00	0.00	H
ATOM	3352	CD1	LEU	C	167	42.493	101.589	-15.026	1.00	0.00	C
ATOM	3353	1HD1	LEU	C	167	42.900	100.670	-14.602	1.00	0.00	H
ATOM	3354	2HD1	LEU	C	167	43.306	102.263	-15.293	1.00	0.00	H
ATOM	3355	3HD1	LEU	C	167	41.942	101.325	-15.928	1.00	0.00	H
ATOM	3356	CD2	LEU	C	167	42.359	102.606	-12.775	1.00	0.00	C
ATOM	3357	1HD2	LEU	C	167	42.845	101.706	-12.396	1.00	0.00	H
ATOM	3358	2HD2	LEU	C	167	41.695	102.984	-11.999	1.00	0.00	H
ATOM	3359	3HD2	LEU	C	167	43.112	103.354	-13.018	1.00	0.00	H
ATOM	3360	N	ASN	C	168	38.177	106.005	-14.023	1.00	0.00	N
ATOM	3361	H	ASN	C	168	37.809	105.534	-13.205	1.00	0.00	H
ATOM	3362	CA	ASN	C	168	37.177	106.670	-14.867	1.00	0.00	C
ATOM	3363	HA	ASN	C	168	37.651	107.052	-15.773	1.00	0.00	H
ATOM	3364	C	ASN	C	168	36.425	107.859	-14.221	1.00	0.00	C
ATOM	3365	O	ASN	C	168	36.200	108.881	-14.867	1.00	0.00	O
ATOM	3366	CB	ASN	C	168	36.174	105.561	-15.265	1.00	0.00	C
ATOM	3367	1HB	ASN	C	168	35.407	105.991	-15.906	1.00	0.00	H
ATOM	3368	2HB	ASN	C	168	36.691	104.795	-15.843	1.00	0.00	H
ATOM	3369	CG	ASN	C	168	35.474	104.877	-14.090	1.00	0.00	C
ATOM	3370	OD1	ASN	C	168	35.860	104.972	-12.935	1.00	0.00	O
ATOM	3371	ND2	ASN	C	168	34.410	104.168	-14.334	1.00	0.00	N
ATOM	3372	1HD2	ASN	C	168	34.058	103.653	-13.541	1.00	0.00	H
ATOM	3373	2HD2	ASN	C	168	34.269	103.842	-15.283	1.00	0.00	H
ATOM	3374	N	GLU	C	169	35.985	107.740	-12.968	1.00	0.00	N
ATOM	3375	H	GLU	C	169	36.195	106.864	-12.501	1.00	0.00	H
ATOM	3376	CA	GLU	C	169	34.798	108.454	-12.476	1.00	0.00	C
ATOM	3377	HA	GLU	C	169	34.145	108.614	-13.335	1.00	0.00	H
ATOM	3378	C	GLU	C	169	35.046	109.865	-11.904	1.00	0.00	C
ATOM	3379	O	GLU	C	169	34.449	110.241	-10.894	1.00	0.00	O
ATOM	3380	CB	GLU	C	169	34.009	107.549	-11.514	1.00	0.00	C
ATOM	3381	1HB	GLU	C	169	33.069	108.058	-11.313	1.00	0.00	H
ATOM	3382	2HB	GLU	C	169	33.756	106.619	-12.024	1.00	0.00	H
ATOM	3383	CG	GLU	C	169	34.714	107.210	-10.184	1.00	0.00	C
ATOM	3384	1HG	GLU	C	169	35.249	106.265	-10.292	1.00	0.00	H
ATOM	3385	2HG	GLU	C	169	35.452	107.980	-9.948	1.00	0.00	H
ATOM	3386	CD	GLU	C	169	33.714	107.113	-9.022	1.00	0.00	C
ATOM	3387	OE1	GLU	C	169	32.561	106.691	-9.271	1.00	0.00	O
ATOM	3388	OE2	GLU	C	169	34.053	107.562	-7.897	1.00	0.00	O
ATOM	3389	N	THR	C	170	35.919	110.663	-12.526	1.00	0.00	N
ATOM	3390	H	THR	C	170	36.389	110.284	-13.339	1.00	0.00	H
ATOM	3391	CA	THR	C	170	36.286	112.001	-12.007	1.00	0.00	C
ATOM	3392	HA	THR	C	170	35.499	112.339	-11.335	1.00	0.00	H
ATOM	3393	C	THR	C	170	36.396	113.093	-13.084	1.00	0.00	C
ATOM	3394	O	THR	C	170	36.292	114.271	-12.739	1.00	0.00	O
ATOM	3395	CB	THR	C	170	37.582	111.921	-11.167	1.00	0.00	C
ATOM	3396	HB	THR	C	170	38.418	111.721	-11.839	1.00	0.00	H
ATOM	3397	OG1	THR	C	170	37.531	110.879	-10.217	1.00	0.00	O
ATOM	3398	HG1	THR	C	170	36.982	111.167	-9.465	1.00	0.00	H
ATOM	3399	CG2	THR	C	170	37.897	113.178	-10.354	1.00	0.00	C
ATOM	3400	1HG2	THR	C	170	38.167	113.996	-11.019	1.00	0.00	H
ATOM	3401	2HG2	THR	C	170	38.737	112.983	-9.687	1.00	0.00	H
ATOM	3402	3HG2	THR	C	170	37.029	113.462	-9.758	1.00	0.00	H
ATOM	3403	N	GLU	C	171	36.545	112.762	-14.374	1.00	0.00	N
ATOM	3404	H	GLU	C	171	36.560	111.790	-14.650	1.00	0.00	H
ATOM	3405	CA	GLU	C	171	36.704	113.765	-15.447	1.00	0.00	C
ATOM	3406	HA	GLU	C	171	36.181	114.675	-15.155	1.00	0.00	H
ATOM	3407	C	GLU	C	171	36.099	113.290	-16.782	1.00	0.00	C
ATOM	3408	O	GLU	C	171	36.480	112.247	-17.315	1.00	0.00	O
ATOM	3409	CB	GLU	C	171	38.202	114.111	-15.612	1.00	0.00	C
ATOM	3410	1HB	GLU	C	171	38.705	113.957	-14.656	1.00	0.00	H
ATOM	3411	2HB	GLU	C	171	38.670	113.438	-16.332	1.00	0.00	H

ATOM	3412	CG	GLU	C	171	38.471	115.569	-16.013	1.00	0.00	C
ATOM	3413	1HG	GLU	C	171	38.024	116.228	-15.264	1.00	0.00	H
ATOM	3414	2HG	GLU	C	171	39.550	115.739	-15.981	1.00	0.00	H
ATOM	3415	CD	GLU	C	171	37.946	115.941	-17.405	1.00	0.00	C
ATOM	3416	OE1	GLU	C	171	38.695	115.778	-18.390	1.00	0.00	O
ATOM	3417	OE2	GLU	C	171	36.806	116.452	-17.476	1.00	0.00	O
ATOM	3418	N	LEU	C	172	35.169	114.079	-17.324	1.00	0.00	N
ATOM	3419	H	LEU	C	172	34.933	114.935	-16.829	1.00	0.00	H
ATOM	3420	CA	LEU	C	172	34.561	113.905	-18.643	1.00	0.00	C
ATOM	3421	HA	LEU	C	172	35.273	113.411	-19.300	1.00	0.00	H
ATOM	3422	C	LEU	C	172	34.202	115.288	-19.210	1.00	0.00	C
ATOM	3423	O	LEU	C	172	33.545	116.080	-18.527	1.00	0.00	O
ATOM	3424	CB	LEU	C	172	33.305	113.023	-18.482	1.00	0.00	C
ATOM	3425	1HB	LEU	C	172	33.484	112.347	-17.648	1.00	0.00	H
ATOM	3426	2HB	LEU	C	172	32.463	113.657	-18.203	1.00	0.00	H
ATOM	3427	CG	LEU	C	172	32.886	112.147	-19.679	1.00	0.00	C
ATOM	3428	HG	LEU	C	172	31.854	111.834	-19.523	1.00	0.00	H
ATOM	3429	CD1	LEU	C	172	32.954	112.862	-21.025	1.00	0.00	C
ATOM	3430	1HD1	LEU	C	172	33.985	113.072	-21.295	1.00	0.00	H
ATOM	3431	2HD1	LEU	C	172	32.384	113.786	-20.973	1.00	0.00	H
ATOM	3432	3HD1	LEU	C	172	32.523	112.237	-21.803	1.00	0.00	H
ATOM	3433	CD2	LEU	C	172	33.748	110.892	-19.732	1.00	0.00	C
ATOM	3434	1HD2	LEU	C	172	33.498	110.293	-20.607	1.00	0.00	H
ATOM	3435	2HD2	LEU	C	172	33.580	110.287	-18.844	1.00	0.00	H
ATOM	3436	3HD2	LEU	C	172	34.797	111.173	-19.755	1.00	0.00	H
ATOM	3437	N	HIS	C	173	34.584	115.588	-20.459	1.00	0.00	N
ATOM	3438	H	HIS	C	173	35.147	114.913	-20.968	1.00	0.00	H
ATOM	3439	CA	HIS	C	173	34.205	116.830	-21.159	1.00	0.00	C
ATOM	3440	HA	HIS	C	173	34.733	116.832	-22.114	1.00	0.00	H
ATOM	3441	C	HIS	C	173	34.664	118.118	-20.413	1.00	0.00	C
ATOM	3442	O	HIS	C	173	34.163	119.219	-20.657	1.00	0.00	O
ATOM	3443	CB	HIS	C	173	32.691	116.728	-21.488	1.00	0.00	C
ATOM	3444	1HB	HIS	C	173	32.543	115.822	-22.077	1.00	0.00	H
ATOM	3445	2HB	HIS	C	173	32.126	116.607	-20.564	1.00	0.00	H
ATOM	3446	CG	HIS	C	173	32.053	117.853	-22.263	1.00	0.00	C
ATOM	3447	ND1	HIS	C	173	32.167	118.093	-23.608	1.00	0.00	N
ATOM	3448	HD1	HIS	C	173	32.631	117.462	-24.278	1.00	0.00	H
ATOM	3449	CD2	HIS	C	173	31.098	118.709	-21.797	1.00	0.00	C
ATOM	3450	HD2	HIS	C	173	30.718	118.721	-20.788	1.00	0.00	H
ATOM	3451	CE1	HIS	C	173	31.321	119.078	-23.940	1.00	0.00	C
ATOM	3452	HE1	HIS	C	173	31.125	119.397	-24.957	1.00	0.00	H
ATOM	3453	NE2	HIS	C	173	30.694	119.552	-22.845	1.00	0.00	N
ATOM	3454	N	GLY	C	174	35.616	118.027	-19.475	1.00	0.00	N
ATOM	3455	H	GLY	C	174	35.989	117.107	-19.239	1.00	0.00	H
ATOM	3456	CA	GLY	C	174	36.099	119.133	-18.639	1.00	0.00	C
ATOM	3457	1HA	GLY	C	174	37.133	118.917	-18.370	1.00	0.00	H
ATOM	3458	2HA	GLY	C	174	36.077	120.064	-19.203	1.00	0.00	H
ATOM	3459	C	GLY	C	174	35.315	119.327	-17.331	1.00	0.00	C
ATOM	3460	O	GLY	C	174	35.308	120.441	-16.794	1.00	0.00	O
ATOM	3461	N	ARG	C	175	34.585	118.310	-16.855	1.00	0.00	N
ATOM	3462	H	ARG	C	175	34.717	117.403	-17.308	1.00	0.00	H
ATOM	3463	CA	ARG	C	175	33.645	118.368	-15.718	1.00	0.00	C
ATOM	3464	HA	ARG	C	175	33.928	119.192	-15.066	1.00	0.00	H
ATOM	3465	C	ARG	C	175	33.687	117.080	-14.875	1.00	0.00	C
ATOM	3466	O	ARG	C	175	34.064	116.016	-15.353	1.00	0.00	O
ATOM	3467	CB	ARG	C	175	32.205	118.587	-16.233	1.00	0.00	C
ATOM	3468	1HB	ARG	C	175	31.966	117.826	-16.980	1.00	0.00	H
ATOM	3469	2HB	ARG	C	175	31.526	118.420	-15.395	1.00	0.00	H
ATOM	3470	CG	ARG	C	175	31.864	119.982	-16.795	1.00	0.00	C
ATOM	3471	1HG	ARG	C	175	30.778	120.076	-16.743	1.00	0.00	H
ATOM	3472	2HG	ARG	C	175	32.287	120.754	-16.151	1.00	0.00	H
ATOM	3473	CD	ARG	C	175	32.294	120.237	-18.251	1.00	0.00	C
ATOM	3474	1HD	ARG	C	175	33.283	120.692	-18.268	1.00	0.00	H
ATOM	3475	2HD	ARG	C	175	32.341	119.278	-18.773	1.00	0.00	H
ATOM	3476	NE	ARG	C	175	31.336	121.114	-18.954	1.00	0.00	N
ATOM	3477	HE	ARG	C	175	30.436	121.259	-18.495	1.00	0.00	H
ATOM	3478	CZ	ARG	C	175	31.345	121.405	-20.241	1.00	0.00	C
ATOM	3479	NH1	ARG	C	175	32.389	121.249	-20.996	1.00	0.00	N
ATOM	3480	1HH1	ARG	C	175	33.154	120.695	-20.620	1.00	0.00	H
ATOM	3481	2HH1	ARG	C	175	32.209	121.110	-21.977	1.00	0.00	H
ATOM	3482	NH2	ARG	C	175	30.259	121.786	-20.843	1.00	0.00	N
ATOM	3483	1HH2	ARG	C	175	29.376	121.648	-20.343	1.00	0.00	H
ATOM	3484	2HH2	ARG	C	175	30.219	121.577	-21.827	1.00	0.00	H
ATOM	3485	N	GLN	C	176	33.256	117.180	-13.613	1.00	0.00	N
ATOM	3486	H	GLN	C	176	32.925	118.073	-13.299	1.00	0.00	H
ATOM	3487	CA	GLN	C	176	33.028	116.016	-12.742	1.00	0.00	C
ATOM	3488	HA	GLN	C	176	33.911	115.376	-12.797	1.00	0.00	H

ATOM	3489	C	GLN	C	176	31.815	115.187	-13.211	1.00	0.00	C
ATOM	3490	O	GLN	C	176	30.817	115.763	-13.650	1.00	0.00	O
ATOM	3491	CB	GLN	C	176	32.856	116.468	-11.270	1.00	0.00	C
ATOM	3492	1HB	GLN	C	176	32.878	115.580	-10.637	1.00	0.00	H
ATOM	3493	2HB	GLN	C	176	33.706	117.093	-10.993	1.00	0.00	H
ATOM	3494	CG	GLN	C	176	31.549	117.236	-10.976	1.00	0.00	C
ATOM	3495	1HG	GLN	C	176	31.495	118.121	-11.608	1.00	0.00	H
ATOM	3496	2HG	GLN	C	176	30.702	116.598	-11.219	1.00	0.00	H
ATOM	3497	CD	GLN	C	176	31.401	117.677	-9.519	1.00	0.00	C
ATOM	3498	OE1	GLN	C	176	32.107	118.549	-9.034	1.00	0.00	O
ATOM	3499	NE2	GLN	C	176	30.441	117.140	-8.791	1.00	0.00	N
ATOM	3500	1HE2	GLN	C	176	30.322	117.453	-7.835	1.00	0.00	H
ATOM	3501	2HE2	GLN	C	176	29.831	116.442	-9.183	1.00	0.00	H
ATOM	3502	N	LEU	C	177	31.865	113.868	-13.009	1.00	0.00	N
ATOM	3503	H	LEU	C	177	32.712	113.476	-12.620	1.00	0.00	H
ATOM	3504	CA	LEU	C	177	30.742	112.928	-13.142	1.00	0.00	C
ATOM	3505	HA	LEU	C	177	29.824	113.435	-12.849	1.00	0.00	H
ATOM	3506	C	LEU	C	177	30.908	111.735	-12.181	1.00	0.00	C
ATOM	3507	O	LEU	C	177	31.866	111.726	-11.407	1.00	0.00	O
ATOM	3508	CB	LEU	C	177	30.573	112.494	-14.614	1.00	0.00	C
ATOM	3509	1HB	LEU	C	177	29.715	111.827	-14.664	1.00	0.00	H
ATOM	3510	2HB	LEU	C	177	30.299	113.379	-15.189	1.00	0.00	H
ATOM	3511	CG	LEU	C	177	31.750	111.821	-15.349	1.00	0.00	C
ATOM	3512	HG	LEU	C	177	32.485	112.584	-15.600	1.00	0.00	H
ATOM	3513	CD1	LEU	C	177	32.471	110.688	-14.614	1.00	0.00	C
ATOM	3514	1HD1	LEU	C	177	31.760	109.915	-14.324	1.00	0.00	H
ATOM	3515	2HD1	LEU	C	177	32.985	111.079	-13.739	1.00	0.00	H
ATOM	3516	3HD1	LEU	C	177	33.225	110.249	-15.269	1.00	0.00	H
ATOM	3517	CD2	LEU	C	177	31.177	111.217	-16.632	1.00	0.00	C
ATOM	3518	1HD2	LEU	C	177	30.406	110.492	-16.383	1.00	0.00	H
ATOM	3519	2HD2	LEU	C	177	31.957	110.706	-17.192	1.00	0.00	H
ATOM	3520	3HD2	LEU	C	177	30.741	112.001	-17.250	1.00	0.00	H
ATOM	3521	N	LYS	C	178	30.014	110.735	-12.238	1.00	0.00	N
ATOM	3522	H	LYS	C	178	29.235	110.833	-12.887	1.00	0.00	H
ATOM	3523	CA	LYS	C	178	30.175	109.421	-11.581	1.00	0.00	C
ATOM	3524	HA	LYS	C	178	31.238	109.231	-11.476	1.00	0.00	H
ATOM	3525	C	LYS	C	178	29.664	108.266	-12.453	1.00	0.00	C
ATOM	3526	O	LYS	C	178	28.967	108.493	-13.440	1.00	0.00	O
ATOM	3527	CB	LYS	C	178	29.502	109.422	-10.188	1.00	0.00	C
ATOM	3528	1HB	LYS	C	178	28.473	109.770	-10.296	1.00	0.00	H
ATOM	3529	2HB	LYS	C	178	29.464	108.401	-9.804	1.00	0.00	H
ATOM	3530	CG	LYS	C	178	30.212	110.290	-9.131	1.00	0.00	C
ATOM	3531	1HG	LYS	C	178	30.292	111.315	-9.486	1.00	0.00	H
ATOM	3532	2HG	LYS	C	178	29.586	110.310	-8.242	1.00	0.00	H
ATOM	3533	CD	LYS	C	178	31.603	109.738	-8.761	1.00	0.00	C
ATOM	3534	1HD	LYS	C	178	31.483	108.882	-8.095	1.00	0.00	H
ATOM	3535	2HD	LYS	C	178	32.100	109.388	-9.658	1.00	0.00	H
ATOM	3536	CE	LYS	C	178	32.541	110.760	-8.113	1.00	0.00	C
ATOM	3537	1HE	LYS	C	178	32.466	111.697	-8.671	1.00	0.00	H
ATOM	3538	2HE	LYS	C	178	32.227	110.922	-7.080	1.00	0.00	H
ATOM	3539	NZ	LYS	C	178	33.939	110.266	-8.181	1.00	0.00	N
ATOM	3540	1HZ	LYS	C	178	34.211	110.174	-9.157	1.00	0.00	H
ATOM	3541	2HZ	LYS	C	178	34.023	109.321	-7.798	1.00	0.00	H
ATOM	3542	3HZ	LYS	C	178	34.646	110.877	-7.774	1.00	0.00	H
ATOM	3543	N	VAL	C	179	30.037	107.033	-12.097	1.00	0.00	N
ATOM	3544	H	VAL	C	179	30.581	106.923	-11.250	1.00	0.00	H
ATOM	3545	CA	VAL	C	179	29.813	105.808	-12.894	1.00	0.00	C
ATOM	3546	HA	VAL	C	179	29.002	105.971	-13.599	1.00	0.00	H
ATOM	3547	C	VAL	C	179	29.428	104.654	-11.958	1.00	0.00	C
ATOM	3548	O	VAL	C	179	30.030	104.523	-10.900	1.00	0.00	O
ATOM	3549	CB	VAL	C	179	31.096	105.444	-13.681	1.00	0.00	C
ATOM	3550	HB	VAL	C	179	31.888	105.207	-12.970	1.00	0.00	H
ATOM	3551	CG1	VAL	C	179	30.901	104.230	-14.596	1.00	0.00	C
ATOM	3552	1HG1	VAL	C	179	30.108	104.421	-15.317	1.00	0.00	H
ATOM	3553	2HG1	VAL	C	179	30.656	103.343	-14.013	1.00	0.00	H
ATOM	3554	3HG1	VAL	C	179	31.819	104.033	-15.144	1.00	0.00	H
ATOM	3555	CG2	VAL	C	179	31.591	106.598	-14.569	1.00	0.00	C
ATOM	3556	1HG2	VAL	C	179	31.904	107.441	-13.957	1.00	0.00	H
ATOM	3557	2HG2	VAL	C	179	30.796	106.910	-15.245	1.00	0.00	H
ATOM	3558	3HG2	VAL	C	179	32.452	106.274	-15.156	1.00	0.00	H
ATOM	3559	N	SER	C	180	28.465	103.808	-12.329	1.00	0.00	N
ATOM	3560	H	SER	C	180	28.086	103.905	-13.268	1.00	0.00	H
ATOM	3561	CA	SER	C	180	27.942	102.702	-11.497	1.00	0.00	C
ATOM	3562	HA	SER	C	180	28.654	102.466	-10.707	1.00	0.00	H
ATOM	3563	C	SER	C	180	27.714	101.439	-12.334	1.00	0.00	C
ATOM	3564	O	SER	C	180	27.709	101.508	-13.555	1.00	0.00	O
ATOM	3565	CB	SER	C	180	26.599	103.080	-10.850	1.00	0.00	C



ATOM	3566	1HB	SER	C	180	25.840	103.166	-11.628	1.00	0.00	H
ATOM	3567	2HB	SER	C	180	26.290	102.282	-10.174	1.00	0.00	H
ATOM	3568	OG	SER	C	180	26.664	104.292	-10.119	1.00	0.00	O
ATOM	3569	HG	SER	C	180	25.760	104.576	-9.946	1.00	0.00	H
ATOM	3570	N	ALA	C	181	27.469	100.286	-11.706	1.00	0.00	N
ATOM	3571	H	ALA	C	181	27.472	100.259	-10.701	1.00	0.00	H
ATOM	3572	CA	ALA	C	181	27.010	99.088	-12.421	1.00	0.00	C
ATOM	3573	HA	ALA	C	181	27.751	98.823	-13.175	1.00	0.00	H
ATOM	3574	C	ALA	C	181	25.663	99.308	-13.151	1.00	0.00	C
ATOM	3575	O	ALA	C	181	24.881	100.185	-12.770	1.00	0.00	O
ATOM	3576	CB	ALA	C	181	26.921	97.932	-11.417	1.00	0.00	C
ATOM	3577	1HB	ALA	C	181	27.891	97.774	-10.943	1.00	0.00	H
ATOM	3578	2HB	ALA	C	181	26.634	97.017	-11.938	1.00	0.00	H
ATOM	3579	3HB	ALA	C	181	26.172	98.154	-10.655	1.00	0.00	H
ATOM	3580	N	LYS	C	182	25.385	98.472	-14.157	1.00	0.00	N
ATOM	3581	H	LYS	C	182	26.071	97.763	-14.403	1.00	0.00	H
ATOM	3582	CA	LYS	C	182	24.090	98.316	-14.842	1.00	0.00	C
ATOM	3583	HA	LYS	C	182	23.287	98.613	-14.170	1.00	0.00	H
ATOM	3584	C	LYS	C	182	23.877	96.829	-15.155	1.00	0.00	C
ATOM	3585	O	LYS	C	182	24.799	96.023	-14.907	1.00	0.00	O
ATOM	3586	OXT	LYS	C	182	22.815	96.450	-15.687	1.00	0.00	O
ATOM	3587	CB	LYS	C	182	24.068	99.216	-16.101	1.00	0.00	C
ATOM	3588	1HB	LYS	C	182	24.557	100.160	-15.863	1.00	0.00	H
ATOM	3589	2HB	LYS	C	182	24.634	98.731	-16.898	1.00	0.00	H
ATOM	3590	CG	LYS	C	182	22.646	99.547	-16.593	1.00	0.00	C
ATOM	3591	1HG	LYS	C	182	22.105	98.628	-16.806	1.00	0.00	H
ATOM	3592	2HG	LYS	C	182	22.113	100.074	-15.804	1.00	0.00	H
ATOM	3593	CD	LYS	C	182	22.658	100.421	-17.858	1.00	0.00	C
ATOM	3594	1HD	LYS	C	182	23.152	101.370	-17.641	1.00	0.00	H
ATOM	3595	2HD	LYS	C	182	23.214	99.900	-18.639	1.00	0.00	H
ATOM	3596	CE	LYS	C	182	21.224	100.695	-18.338	1.00	0.00	C
ATOM	3597	1HE	LYS	C	182	20.656	99.765	-18.268	1.00	0.00	H
ATOM	3598	2HE	LYS	C	182	20.760	101.422	-17.664	1.00	0.00	H
ATOM	3599	NZ	LYS	C	182	21.183	101.197	-19.736	1.00	0.00	N
ATOM	3600	1HZ	LYS	C	182	21.655	100.586	-20.393	1.00	0.00	H
ATOM	3601	2HZ	LYS	C	182	21.551	102.150	-19.797	1.00	0.00	H
ATOM	3602	3HZ	LYS	C	182	20.230	101.283	-20.083	1.00	0.00	H
TER	3603		LYS	C	182						
ATOM	3604	N	ASP	D	106	26.656	87.536	-38.912	1.00	0.00	N
ATOM	3605	1H	ASP	D	106	25.733	87.126	-38.929	1.00	0.00	H
ATOM	3606	2H	ASP	D	106	26.632	88.376	-39.475	1.00	0.00	H
ATOM	3607	3H	ASP	D	106	26.845	87.841	-37.959	1.00	0.00	H
ATOM	3608	CA	ASP	D	106	27.680	86.610	-39.430	1.00	0.00	C
ATOM	3609	HA	ASP	D	106	27.598	85.672	-38.881	1.00	0.00	H
ATOM	3610	C	ASP	D	106	29.106	87.126	-39.186	1.00	0.00	C
ATOM	3611	O	ASP	D	106	29.923	86.346	-38.714	1.00	0.00	O
ATOM	3612	CB	ASP	D	106	27.429	86.307	-40.920	1.00	0.00	C
ATOM	3613	1HB	ASP	D	106	28.051	85.460	-41.214	1.00	0.00	H
ATOM	3614	2HB	ASP	D	106	26.383	86.035	-41.066	1.00	0.00	H
ATOM	3615	CG	ASP	D	106	27.774	87.522	-41.779	1.00	0.00	C
ATOM	3616	OD1	ASP	D	106	27.273	88.618	-41.431	1.00	0.00	O
ATOM	3617	OD2	ASP	D	106	28.740	87.467	-42.554	1.00	0.00	O
ATOM	3618	N	SER	D	107	29.405	88.392	-39.533	1.00	0.00	N
ATOM	3619	H	SER	D	107	28.632	88.920	-39.922	1.00	0.00	H
ATOM	3620	CA	SER	D	107	30.696	89.130	-39.533	1.00	0.00	C
ATOM	3621	HA	SER	D	107	30.610	89.868	-38.735	1.00	0.00	H
ATOM	3622	C	SER	D	107	30.938	89.955	-40.816	1.00	0.00	C
ATOM	3623	O	SER	D	107	31.898	90.732	-40.875	1.00	0.00	O
ATOM	3624	CB	SER	D	107	31.943	88.295	-39.198	1.00	0.00	C
ATOM	3625	1HB	SER	D	107	32.824	88.937	-39.219	1.00	0.00	H
ATOM	3626	2HB	SER	D	107	31.851	87.885	-38.192	1.00	0.00	H
ATOM	3627	OG	SER	D	107	32.119	87.244	-40.121	1.00	0.00	O
ATOM	3628	HG	SER	D	107	31.463	86.569	-39.875	1.00	0.00	H
ATOM	3629	N	ARG	D	108	30.067	89.860	-41.833	1.00	0.00	N
ATOM	3630	H	ARG	D	108	29.434	89.058	-41.853	1.00	0.00	H
ATOM	3631	CA	ARG	D	108	29.943	90.836	-42.936	1.00	0.00	C
ATOM	3632	HA	ARG	D	108	30.823	91.470	-42.967	1.00	0.00	H
ATOM	3633	C	ARG	D	108	28.775	91.803	-42.742	1.00	0.00	C
ATOM	3634	O	ARG	D	108	28.840	92.931	-43.231	1.00	0.00	O
ATOM	3635	CB	ARG	D	108	29.803	90.113	-44.290	1.00	0.00	C
ATOM	3636	1HB	ARG	D	108	28.835	89.610	-44.331	1.00	0.00	H
ATOM	3637	2HB	ARG	D	108	29.809	90.867	-45.079	1.00	0.00	H
ATOM	3638	CG	ARG	D	108	30.894	89.071	-44.611	1.00	0.00	C
ATOM	3639	1HG	ARG	D	108	30.680	88.149	-44.072	1.00	0.00	H
ATOM	3640	2HG	ARG	D	108	30.846	88.844	-45.677	1.00	0.00	H
ATOM	3641	CD	ARG	D	108	32.325	89.497	-44.258	1.00	0.00	C
ATOM	3642	1HD	ARG	D	108	32.436	89.491	-43.174	1.00	0.00	H

ATOM	3643	2HD	ARG	D	108	33.014	88.753	-44.663	1.00	0.00	H
ATOM	3644	NE	ARG	D	108	32.658	90.817	-44.819	1.00	0.00	N
ATOM	3645	HE	ARG	D	108	32.554	90.911	-45.825	1.00	0.00	H
ATOM	3646	CZ	ARG	D	108	33.195	91.848	-44.204	1.00	0.00	C
ATOM	3647	NH1	ARG	D	108	33.516	91.848	-42.942	1.00	0.00	N
ATOM	3648	1HH1	ARG	D	108	33.140	91.116	-42.346	1.00	0.00	H
ATOM	3649	2HH1	ARG	D	108	33.859	92.688	-42.526	1.00	0.00	H
ATOM	3650	NH2	ARG	D	108	33.419	92.940	-44.861	1.00	0.00	N
ATOM	3651	1HH2	ARG	D	108	33.045	93.041	-45.805	1.00	0.00	H
ATOM	3652	2HH2	ARG	D	108	34.073	93.627	-44.521	1.00	0.00	H
ATOM	3653	N	SER	D	109	27.750	91.385	-42.002	1.00	0.00	N
ATOM	3654	H	SER	D	109	27.760	90.415	-41.706	1.00	0.00	H
ATOM	3655	CA	SER	D	109	26.629	92.221	-41.560	1.00	0.00	C
ATOM	3656	HA	SER	D	109	26.456	92.967	-42.328	1.00	0.00	H
ATOM	3657	C	SER	D	109	26.901	92.972	-40.246	1.00	0.00	C
ATOM	3658	O	SER	D	109	27.711	92.561	-39.413	1.00	0.00	O
ATOM	3659	CB	SER	D	109	25.349	91.379	-41.444	1.00	0.00	C
ATOM	3660	1HB	SER	D	109	24.537	92.001	-41.065	1.00	0.00	H
ATOM	3661	2HB	SER	D	109	25.069	91.014	-42.433	1.00	0.00	H
ATOM	3662	OG	SER	D	109	25.528	90.273	-40.584	1.00	0.00	O
ATOM	3663	HG	SER	D	109	26.154	89.653	-41.035	1.00	0.00	H
ATOM	3664	N	ILE	D	110	26.189	94.087	-40.056	1.00	0.00	N
ATOM	3665	H	ILE	D	110	25.602	94.396	-40.825	1.00	0.00	H
ATOM	3666	CA	ILE	D	110	26.208	94.936	-38.856	1.00	0.00	C
ATOM	3667	HA	ILE	D	110	26.578	94.339	-38.024	1.00	0.00	H
ATOM	3668	C	ILE	D	110	24.778	95.372	-38.488	1.00	0.00	C
ATOM	3669	O	ILE	D	110	24.022	95.840	-39.339	1.00	0.00	O
ATOM	3670	CB	ILE	D	110	27.164	96.149	-39.027	1.00	0.00	C
ATOM	3671	HB	ILE	D	110	27.031	96.796	-38.161	1.00	0.00	H
ATOM	3672	CG1	ILE	D	110	26.872	97.009	-40.276	1.00	0.00	C
ATOM	3673	1HG1	ILE	D	110	27.048	96.423	-41.179	1.00	0.00	H
ATOM	3674	2HG1	ILE	D	110	25.826	97.302	-40.255	1.00	0.00	H
ATOM	3675	CG2	ILE	D	110	28.628	95.673	-39.019	1.00	0.00	C
ATOM	3676	1HG2	ILE	D	110	29.303	96.521	-38.928	1.00	0.00	H
ATOM	3677	2HG2	ILE	D	110	28.853	95.130	-39.938	1.00	0.00	H
ATOM	3678	3HG2	ILE	D	110	28.799	95.010	-38.173	1.00	0.00	H
ATOM	3679	CD1	ILE	D	110	27.694	98.302	-40.367	1.00	0.00	C
ATOM	3680	1HD1	ILE	D	110	27.607	98.865	-39.439	1.00	0.00	H
ATOM	3681	2HD1	ILE	D	110	27.320	98.913	-41.188	1.00	0.00	H
ATOM	3682	3HD1	ILE	D	110	28.739	98.074	-40.560	1.00	0.00	H
ATOM	3683	N	TYR	D	111	24.405	95.191	-37.220	1.00	0.00	N
ATOM	3684	H	TYR	D	111	25.126	94.886	-36.579	1.00	0.00	H
ATOM	3685	CA	TYR	D	111	23.135	95.603	-36.614	1.00	0.00	C
ATOM	3686	HA	TYR	D	111	22.310	95.305	-37.263	1.00	0.00	H
ATOM	3687	C	TYR	D	111	23.061	97.123	-36.402	1.00	0.00	C
ATOM	3688	O	TYR	D	111	24.062	97.782	-36.108	1.00	0.00	O
ATOM	3689	CB	TYR	D	111	22.989	94.881	-35.263	1.00	0.00	C
ATOM	3690	1HB	TYR	D	111	22.817	93.820	-35.445	1.00	0.00	H
ATOM	3691	2HB	TYR	D	111	23.932	94.968	-34.722	1.00	0.00	H
ATOM	3692	CG	TYR	D	111	21.887	95.404	-34.355	1.00	0.00	C
ATOM	3693	CD1	TYR	D	111	22.206	96.311	-33.323	1.00	0.00	C
ATOM	3694	HD1	TYR	D	111	23.226	96.635	-33.189	1.00	0.00	H
ATOM	3695	CD2	TYR	D	111	20.552	94.996	-34.537	1.00	0.00	C
ATOM	3696	HD2	TYR	D	111	20.295	94.300	-35.327	1.00	0.00	H
ATOM	3697	CE1	TYR	D	111	21.200	96.786	-32.461	1.00	0.00	C
ATOM	3698	HE1	TYR	D	111	21.441	97.461	-31.655	1.00	0.00	H
ATOM	3699	CE2	TYR	D	111	19.545	95.465	-33.671	1.00	0.00	C
ATOM	3700	HE2	TYR	D	111	18.533	95.111	-33.796	1.00	0.00	H
ATOM	3701	CZ	TYR	D	111	19.868	96.355	-32.624	1.00	0.00	C
ATOM	3702	OH	TYR	D	111	18.912	96.811	-31.770	1.00	0.00	O
ATOM	3703	HH	TYR	D	111	18.058	96.394	-31.930	1.00	0.00	H
ATOM	3704	N	VAL	D	112	21.848	97.668	-36.477	1.00	0.00	N
ATOM	3705	H	VAL	D	112	21.077	97.047	-36.717	1.00	0.00	H
ATOM	3706	CA	VAL	D	112	21.524	99.097	-36.409	1.00	0.00	C
ATOM	3707	HA	VAL	D	112	22.347	99.645	-35.952	1.00	0.00	H
ATOM	3708	C	VAL	D	112	20.266	99.258	-35.546	1.00	0.00	C
ATOM	3709	O	VAL	D	112	19.210	98.735	-35.897	1.00	0.00	O
ATOM	3710	CB	VAL	D	112	21.292	99.631	-37.840	1.00	0.00	C
ATOM	3711	HB	VAL	D	112	20.412	99.149	-38.260	1.00	0.00	H
ATOM	3712	CG1	VAL	D	112	21.056	101.143	-37.834	1.00	0.00	C
ATOM	3713	1HG1	VAL	D	112	21.933	101.648	-37.435	1.00	0.00	H
ATOM	3714	2HG1	VAL	D	112	20.186	101.373	-37.222	1.00	0.00	H
ATOM	3715	3HG1	VAL	D	112	20.863	101.491	-38.849	1.00	0.00	H
ATOM	3716	CG2	VAL	D	112	22.469	99.357	-38.790	1.00	0.00	C
ATOM	3717	1HG2	VAL	D	112	23.382	99.814	-38.409	1.00	0.00	H
ATOM	3718	2HG2	VAL	D	112	22.242	99.748	-39.779	1.00	0.00	H
ATOM	3719	3HG2	VAL	D	112	22.627	98.285	-38.901	1.00	0.00	H

ATOM	3720	N	GLY	D	113	20.356	99.956	-34.408	1.00	0.00	N
ATOM	3721	H	GLY	D	113	21.230	100.427	-34.197	1.00	0.00	H
ATOM	3722	CA	GLY	D	113	19.347	99.881	-33.340	1.00	0.00	C
ATOM	3723	1HA	GLY	D	113	18.386	99.587	-33.763	1.00	0.00	H
ATOM	3724	2HA	GLY	D	113	19.646	99.103	-32.644	1.00	0.00	H
ATOM	3725	C	GLY	D	113	19.131	101.160	-32.524	1.00	0.00	C
ATOM	3726	O	GLY	D	113	19.868	102.139	-32.657	1.00	0.00	O
ATOM	3727	N	ASN	D	114	18.091	101.124	-31.675	1.00	0.00	N
ATOM	3728	H	ASN	D	114	17.634	100.229	-31.569	1.00	0.00	H
ATOM	3729	CA	ASN	D	114	17.405	102.287	-31.086	1.00	0.00	C
ATOM	3730	HA	ASN	D	114	16.472	101.923	-30.656	1.00	0.00	H
ATOM	3731	C	ASN	D	114	17.008	103.329	-32.154	1.00	0.00	C
ATOM	3732	O	ASN	D	114	17.775	104.244	-32.461	1.00	0.00	O
ATOM	3733	CB	ASN	D	114	18.224	102.864	-29.915	1.00	0.00	C
ATOM	3734	1HB	ASN	D	114	18.329	102.106	-29.140	1.00	0.00	H
ATOM	3735	2HB	ASN	D	114	19.221	103.137	-30.262	1.00	0.00	H
ATOM	3736	CG	ASN	D	114	17.570	104.094	-29.305	1.00	0.00	C
ATOM	3737	OD1	ASN	D	114	16.787	104.033	-28.375	1.00	0.00	O
ATOM	3738	ND2	ASN	D	114	17.829	105.262	-29.841	1.00	0.00	N
ATOM	3739	1HD2	ASN	D	114	17.337	106.047	-29.468	1.00	0.00	H
ATOM	3740	2HD2	ASN	D	114	18.279	105.273	-30.749	1.00	0.00	H
ATOM	3741	N	VAL	D	115	15.809	103.185	-32.731	1.00	0.00	N
ATOM	3742	H	VAL	D	115	15.172	102.472	-32.391	1.00	0.00	H
ATOM	3743	CA	VAL	D	115	15.432	103.848	-33.993	1.00	0.00	C
ATOM	3744	HA	VAL	D	115	16.217	104.552	-34.266	1.00	0.00	H
ATOM	3745	C	VAL	D	115	14.148	104.683	-33.842	1.00	0.00	C
ATOM	3746	O	VAL	D	115	13.394	104.561	-32.874	1.00	0.00	O
ATOM	3747	CB	VAL	D	115	15.373	102.794	-35.131	1.00	0.00	C
ATOM	3748	HB	VAL	D	115	14.582	102.078	-34.918	1.00	0.00	H
ATOM	3749	CG1	VAL	D	115	15.126	103.400	-36.521	1.00	0.00	C
ATOM	3750	1HG1	VAL	D	115	14.097	103.751	-36.597	1.00	0.00	H
ATOM	3751	2HG1	VAL	D	115	15.251	102.637	-37.290	1.00	0.00	H
ATOM	3752	3HG1	VAL	D	115	15.823	104.213	-36.716	1.00	0.00	H
ATOM	3753	CG2	VAL	D	115	16.699	102.015	-35.199	1.00	0.00	C
ATOM	3754	1HG2	VAL	D	115	16.757	101.423	-36.112	1.00	0.00	H
ATOM	3755	2HG2	VAL	D	115	16.766	101.328	-34.360	1.00	0.00	H
ATOM	3756	3HG2	VAL	D	115	17.540	102.703	-35.163	1.00	0.00	H
ATOM	3757	N	ASP	D	116	13.947	105.614	-34.779	1.00	0.00	N
ATOM	3758	H	ASP	D	116	14.569	105.607	-35.571	1.00	0.00	H
ATOM	3759	CA	ASP	D	116	12.792	106.508	-34.862	1.00	0.00	C
ATOM	3760	HA	ASP	D	116	12.319	106.577	-33.882	1.00	0.00	H
ATOM	3761	C	ASP	D	116	11.771	105.951	-35.872	1.00	0.00	C
ATOM	3762	O	ASP	D	116	12.119	105.609	-37.004	1.00	0.00	O
ATOM	3763	CB	ASP	D	116	13.300	107.906	-35.251	1.00	0.00	C
ATOM	3764	1HB	ASP	D	116	14.118	108.178	-34.581	1.00	0.00	H
ATOM	3765	2HB	ASP	D	116	13.700	107.875	-36.266	1.00	0.00	H
ATOM	3766	CG	ASP	D	116	12.229	108.995	-35.174	1.00	0.00	C
ATOM	3767	OD1	ASP	D	116	12.506	110.065	-34.589	1.00	0.00	O
ATOM	3768	OD2	ASP	D	116	11.170	108.868	-35.821	1.00	0.00	O
ATOM	3769	N	TYR	D	117	10.507	105.874	-35.450	1.00	0.00	N
ATOM	3770	H	TYR	D	117	10.305	106.315	-34.569	1.00	0.00	H
ATOM	3771	CA	TYR	D	117	9.391	105.150	-36.081	1.00	0.00	C
ATOM	3772	HA	TYR	D	117	9.743	104.137	-36.283	1.00	0.00	H
ATOM	3773	C	TYR	D	117	8.897	105.696	-37.444	1.00	0.00	C
ATOM	3774	O	TYR	D	117	7.759	105.433	-37.836	1.00	0.00	O
ATOM	3775	CB	TYR	D	117	8.256	105.052	-35.042	1.00	0.00	C
ATOM	3776	1HB	TYR	D	117	7.430	104.477	-35.464	1.00	0.00	H
ATOM	3777	2HB	TYR	D	117	8.626	104.482	-34.191	1.00	0.00	H
ATOM	3778	CG	TYR	D	117	7.725	106.382	-34.527	1.00	0.00	C
ATOM	3779	CD1	TYR	D	117	8.218	106.923	-33.321	1.00	0.00	C
ATOM	3780	HD1	TYR	D	117	8.971	106.390	-32.758	1.00	0.00	H
ATOM	3781	CD2	TYR	D	117	6.753	107.087	-35.263	1.00	0.00	C
ATOM	3782	HD2	TYR	D	117	6.378	106.672	-36.190	1.00	0.00	H
ATOM	3783	CE1	TYR	D	117	7.749	108.171	-32.863	1.00	0.00	C
ATOM	3784	HE1	TYR	D	117	8.141	108.603	-31.956	1.00	0.00	H
ATOM	3785	CE2	TYR	D	117	6.290	108.338	-34.816	1.00	0.00	C
ATOM	3786	HE2	TYR	D	117	5.566	108.877	-35.404	1.00	0.00	H
ATOM	3787	CZ	TYR	D	117	6.793	108.884	-33.616	1.00	0.00	C
ATOM	3788	OH	TYR	D	117	6.350	110.096	-33.189	1.00	0.00	O
ATOM	3789	HH	TYR	D	117	5.764	110.481	-33.842	1.00	0.00	H
ATOM	3790	N	ALA	D	118	9.720	106.461	-38.163	1.00	0.00	N
ATOM	3791	H	ALA	D	118	10.637	106.633	-37.768	1.00	0.00	H
ATOM	3792	CA	ALA	D	118	9.436	106.995	-39.499	1.00	0.00	C
ATOM	3793	HA	ALA	D	118	8.608	106.434	-39.935	1.00	0.00	H
ATOM	3794	C	ALA	D	118	10.614	106.855	-40.494	1.00	0.00	C
ATOM	3795	O	ALA	D	118	10.515	107.356	-41.613	1.00	0.00	O
ATOM	3796	CB	ALA	D	118	8.993	108.456	-39.330	1.00	0.00	C

ATOM	3797	1HB	ALA	D	118	9.810	109.036	-38.904	1.00	0.00	H
ATOM	3798	2HB	ALA	D	118	8.128	108.503	-38.668	1.00	0.00	H
ATOM	3799	3HB	ALA	D	118	8.723	108.870	-40.302	1.00	0.00	H
ATOM	3800	N	CYS	D	119	11.711	106.207	-40.084	1.00	0.00	N
ATOM	3801	H	CYS	D	119	11.704	105.799	-39.160	1.00	0.00	H
ATOM	3802	CA	CYS	D	119	12.891	105.938	-40.914	1.00	0.00	C
ATOM	3803	HA	CYS	D	119	13.201	106.857	-41.415	1.00	0.00	H
ATOM	3804	C	CYS	D	119	12.621	104.871	-41.999	1.00	0.00	C
ATOM	3805	O	CYS	D	119	11.713	104.051	-41.851	1.00	0.00	O
ATOM	3806	CB	CYS	D	119	13.998	105.481	-39.949	1.00	0.00	C
ATOM	3807	1HB	CYS	D	119	13.974	106.095	-39.048	1.00	0.00	H
ATOM	3808	2HB	CYS	D	119	13.821	104.440	-39.669	1.00	0.00	H
ATOM	3809	SG	CYS	D	119	15.635	105.647	-40.712	1.00	0.00	S
ATOM	3810	HG	CYS	D	119	16.296	104.851	-39.865	1.00	0.00	H
ATOM	3811	N	THR	D	120	13.449	104.825	-43.047	1.00	0.00	N
ATOM	3812	H	THR	D	120	14.131	105.572	-43.138	1.00	0.00	H
ATOM	3813	CA	THR	D	120	13.333	103.880	-44.178	1.00	0.00	C
ATOM	3814	HA	THR	D	120	12.562	103.149	-43.945	1.00	0.00	H
ATOM	3815	C	THR	D	120	14.647	103.126	-44.446	1.00	0.00	C
ATOM	3816	O	THR	D	120	15.728	103.703	-44.308	1.00	0.00	O
ATOM	3817	CB	THR	D	120	12.907	104.607	-45.466	1.00	0.00	C
ATOM	3818	HB	THR	D	120	12.854	103.878	-46.274	1.00	0.00	H
ATOM	3819	OG1	THR	D	120	13.834	105.607	-45.827	1.00	0.00	O
ATOM	3820	HG1	THR	D	120	13.831	106.283	-45.115	1.00	0.00	H
ATOM	3821	CG2	THR	D	120	11.541	105.280	-45.339	1.00	0.00	C
ATOM	3822	1HG2	THR	D	120	10.799	104.542	-45.036	1.00	0.00	H
ATOM	3823	2HG2	THR	D	120	11.256	105.695	-46.305	1.00	0.00	H
ATOM	3824	3HG2	THR	D	120	11.578	106.081	-44.600	1.00	0.00	H
ATOM	3825	N	PRO	D	121	14.615	101.843	-44.860	1.00	0.00	N
ATOM	3826	CA	PRO	D	121	15.836	101.106	-45.194	1.00	0.00	C
ATOM	3827	HA	PRO	D	121	16.523	101.138	-44.349	1.00	0.00	H
ATOM	3828	C	PRO	D	121	16.557	101.706	-46.416	1.00	0.00	C
ATOM	3829	O	PRO	D	121	17.786	101.667	-46.492	1.00	0.00	O
ATOM	3830	CB	PRO	D	121	15.397	99.654	-45.408	1.00	0.00	C
ATOM	3831	1HB	PRO	D	121	15.986	99.155	-46.177	1.00	0.00	H
ATOM	3832	2HB	PRO	D	121	15.473	99.114	-44.464	1.00	0.00	H
ATOM	3833	CG	PRO	D	121	13.929	99.765	-45.811	1.00	0.00	C
ATOM	3834	1HG	PRO	D	121	13.869	99.913	-46.885	1.00	0.00	H
ATOM	3835	2HG	PRO	D	121	13.358	98.879	-45.536	1.00	0.00	H
ATOM	3836	CD	PRO	D	121	13.436	101.018	-45.081	1.00	0.00	C
ATOM	3837	1HD	PRO	D	121	12.689	101.534	-45.685	1.00	0.00	H
ATOM	3838	2HD	PRO	D	121	13.003	100.747	-44.119	1.00	0.00	H
ATOM	3839	N	GLU	D	122	15.812	102.321	-47.338	1.00	0.00	N
ATOM	3840	H	GLU	D	122	14.795	102.269	-47.251	1.00	0.00	H
ATOM	3841	CA	GLU	D	122	16.329	103.069	-48.486	1.00	0.00	C
ATOM	3842	HA	GLU	D	122	16.959	102.415	-49.086	1.00	0.00	H
ATOM	3843	C	GLU	D	122	17.207	104.258	-48.061	1.00	0.00	C
ATOM	3844	O	GLU	D	122	18.315	104.409	-48.580	1.00	0.00	O
ATOM	3845	CB	GLU	D	122	15.167	103.548	-49.379	1.00	0.00	C
ATOM	3846	1HB	GLU	D	122	14.478	104.157	-48.791	1.00	0.00	H
ATOM	3847	2HB	GLU	D	122	15.587	104.192	-50.153	1.00	0.00	H
ATOM	3848	CG	GLU	D	122	14.393	102.419	-50.093	1.00	0.00	C
ATOM	3849	1HG	GLU	D	122	13.711	102.877	-50.813	1.00	0.00	H
ATOM	3850	2HG	GLU	D	122	15.108	101.813	-50.653	1.00	0.00	H
ATOM	3851	CD	GLU	D	122	13.575	101.517	-49.154	1.00	0.00	C
ATOM	3852	OE1	GLU	D	122	13.458	100.301	-49.442	1.00	0.00	O
ATOM	3853	OE2	GLU	D	122	13.124	102.013	-48.098	1.00	0.00	O
ATOM	3854	N	GLU	D	123	16.778	105.082	-47.093	1.00	0.00	N
ATOM	3855	H	GLU	D	123	15.861	104.943	-46.678	1.00	0.00	H
ATOM	3856	CA	GLU	D	123	17.624	106.183	-46.611	1.00	0.00	C
ATOM	3857	HA	GLU	D	123	18.088	106.626	-47.489	1.00	0.00	H
ATOM	3858	C	GLU	D	123	18.769	105.695	-45.706	1.00	0.00	C
ATOM	3859	O	GLU	D	123	19.865	106.256	-45.769	1.00	0.00	O
ATOM	3860	CB	GLU	D	123	16.797	107.317	-45.983	1.00	0.00	C
ATOM	3861	1HB	GLU	D	123	17.355	108.248	-46.097	1.00	0.00	H
ATOM	3862	2HB	GLU	D	123	15.871	107.425	-46.550	1.00	0.00	H
ATOM	3863	CG	GLU	D	123	16.475	107.150	-44.495	1.00	0.00	C
ATOM	3864	1HG	GLU	D	123	16.229	106.113	-44.289	1.00	0.00	H
ATOM	3865	2HG	GLU	D	123	17.352	107.411	-43.899	1.00	0.00	H
ATOM	3866	CD	GLU	D	123	15.289	108.027	-44.098	1.00	0.00	C
ATOM	3867	OE1	GLU	D	123	14.185	107.465	-43.915	1.00	0.00	O
ATOM	3868	OE2	GLU	D	123	15.467	109.258	-43.948	1.00	0.00	O
ATOM	3869	N	VAL	D	124	18.560	104.633	-44.916	1.00	0.00	N
ATOM	3870	H	VAL	D	124	17.622	104.238	-44.895	1.00	0.00	H
ATOM	3871	CA	VAL	D	124	19.595	104.020	-44.061	1.00	0.00	C
ATOM	3872	HA	VAL	D	124	19.967	104.777	-43.371	1.00	0.00	H
ATOM	3873	C	VAL	D	124	20.799	103.551	-44.880	1.00	0.00	C

ATOM	3874	O	VAL	D	124	21.930	103.914	-44.547	1.00	0.00	O
ATOM	3875	CB	VAL	D	124	19.006	102.862	-43.223	1.00	0.00	C
ATOM	3876	HB	VAL	D	124	18.416	102.221	-43.875	1.00	0.00	H
ATOM	3877	CG1	VAL	D	124	20.065	101.991	-42.533	1.00	0.00	C
ATOM	3878	1HG1	VAL	D	124	19.578	101.251	-41.897	1.00	0.00	H
ATOM	3879	2HG1	VAL	D	124	20.716	102.620	-41.926	1.00	0.00	H
ATOM	3880	3HG1	VAL	D	124	20.660	101.455	-43.272	1.00	0.00	H
ATOM	3881	CG2	VAL	D	124	18.105	103.402	-42.106	1.00	0.00	C
ATOM	3882	1HG2	VAL	D	124	17.537	102.583	-41.666	1.00	0.00	H
ATOM	3883	2HG2	VAL	D	124	17.405	104.132	-42.506	1.00	0.00	H
ATOM	3884	3HG2	VAL	D	124	18.704	103.880	-41.332	1.00	0.00	H
ATOM	3885	N	GLN	D	125	20.590	102.789	-45.963	1.00	0.00	N
ATOM	3886	H	GLN	D	125	19.641	102.511	-46.204	1.00	0.00	H
ATOM	3887	CA	GLN	D	125	21.717	102.279	-46.754	1.00	0.00	C
ATOM	3888	HA	GLN	D	125	22.395	101.792	-46.051	1.00	0.00	H
ATOM	3889	C	GLN	D	125	22.542	103.411	-47.394	1.00	0.00	C
ATOM	3890	O	GLN	D	125	23.764	103.410	-47.260	1.00	0.00	O
ATOM	3891	CB	GLN	D	125	21.282	101.174	-47.738	1.00	0.00	C
ATOM	3892	1HB	GLN	D	125	22.180	100.734	-48.174	1.00	0.00	H
ATOM	3893	2HB	GLN	D	125	20.785	100.395	-47.161	1.00	0.00	H
ATOM	3894	CG	GLN	D	125	20.343	101.588	-48.883	1.00	0.00	C
ATOM	3895	1HG	GLN	D	125	19.485	102.107	-48.465	1.00	0.00	H
ATOM	3896	2HG	GLN	D	125	20.859	102.267	-49.560	1.00	0.00	H
ATOM	3897	CD	GLN	D	125	19.851	100.381	-49.688	1.00	0.00	C
ATOM	3898	OE1	GLN	D	125	20.624	99.572	-50.178	1.00	0.00	O
ATOM	3899	NE2	GLN	D	125	18.553	100.219	-49.830	1.00	0.00	N
ATOM	3900	1HE2	GLN	D	125	18.202	99.404	-50.341	1.00	0.00	H
ATOM	3901	2HE2	GLN	D	125	17.912	100.833	-49.375	1.00	0.00	H
ATOM	3902	N	GLN	D	126	21.911	104.437	-47.985	1.00	0.00	N
ATOM	3903	H	GLN	D	126	20.901	104.415	-48.056	1.00	0.00	H
ATOM	3904	CA	GLN	D	126	22.651	105.575	-48.564	1.00	0.00	C
ATOM	3905	HA	GLN	D	126	23.484	105.152	-49.126	1.00	0.00	H
ATOM	3906	C	GLN	D	126	23.298	106.509	-47.520	1.00	0.00	C
ATOM	3907	O	GLN	D	126	24.344	107.100	-47.805	1.00	0.00	O
ATOM	3908	CB	GLN	D	126	21.797	106.326	-49.605	1.00	0.00	C
ATOM	3909	1HB	GLN	D	126	22.421	107.063	-50.112	1.00	0.00	H
ATOM	3910	2HB	GLN	D	126	21.491	105.597	-50.357	1.00	0.00	H
ATOM	3911	CG	GLN	D	126	20.526	107.016	-49.086	1.00	0.00	C
ATOM	3912	1HG	GLN	D	126	19.833	107.132	-49.919	1.00	0.00	H
ATOM	3913	2HG	GLN	D	126	20.048	106.372	-48.356	1.00	0.00	H
ATOM	3914	CD	GLN	D	126	20.759	108.405	-48.495	1.00	0.00	C
ATOM	3915	OE1	GLN	D	126	21.124	109.348	-49.176	1.00	0.00	O
ATOM	3916	NE2	GLN	D	126	20.534	108.598	-47.215	1.00	0.00	N
ATOM	3917	1HE2	GLN	D	126	20.693	109.521	-46.856	1.00	0.00	H
ATOM	3918	2HE2	GLN	D	126	20.263	107.821	-46.621	1.00	0.00	H
ATOM	3919	N	HIS	D	127	22.751	106.598	-46.297	1.00	0.00	N
ATOM	3920	H	HIS	D	127	21.888	106.100	-46.107	1.00	0.00	H
ATOM	3921	CA	HIS	D	127	23.387	107.326	-45.189	1.00	0.00	C
ATOM	3922	HA	HIS	D	127	23.540	108.364	-45.487	1.00	0.00	H
ATOM	3923	C	HIS	D	127	24.769	106.733	-44.882	1.00	0.00	C
ATOM	3924	O	HIS	D	127	25.758	107.463	-44.838	1.00	0.00	O
ATOM	3925	CB	HIS	D	127	22.504	107.296	-43.923	1.00	0.00	C
ATOM	3926	1HB	HIS	D	127	21.778	106.487	-43.986	1.00	0.00	H
ATOM	3927	2HB	HIS	D	127	23.139	107.070	-43.066	1.00	0.00	H
ATOM	3928	CG	HIS	D	127	21.783	108.585	-43.600	1.00	0.00	C
ATOM	3929	ND1	HIS	D	127	22.319	109.668	-42.934	1.00	0.00	N
ATOM	3930	HD1	HIS	D	127	23.264	109.753	-42.588	1.00	0.00	H
ATOM	3931	CD2	HIS	D	127	20.445	108.839	-43.751	1.00	0.00	C
ATOM	3932	HD2	HIS	D	127	19.714	108.164	-44.173	1.00	0.00	H
ATOM	3933	CE1	HIS	D	127	21.336	110.557	-42.708	1.00	0.00	C
ATOM	3934	HE1	HIS	D	127	21.457	111.497	-42.182	1.00	0.00	H
ATOM	3935	NE2	HIS	D	127	20.168	110.085	-43.175	1.00	0.00	N
ATOM	3936	N	PHE	D	128	24.857	105.410	-44.714	1.00	0.00	N
ATOM	3937	H	PHE	D	128	24.009	104.852	-44.745	1.00	0.00	H
ATOM	3938	CA	PHE	D	128	26.133	104.742	-44.447	1.00	0.00	C
ATOM	3939	HA	PHE	D	128	26.689	105.335	-43.721	1.00	0.00	H
ATOM	3940	C	PHE	D	128	27.033	104.658	-45.689	1.00	0.00	C
ATOM	3941	O	PHE	D	128	28.233	104.908	-45.569	1.00	0.00	O
ATOM	3942	CB	PHE	D	128	25.870	103.361	-43.833	1.00	0.00	C
ATOM	3943	1HB	PHE	D	128	25.325	102.767	-44.564	1.00	0.00	H
ATOM	3944	2HB	PHE	D	128	26.828	102.872	-43.651	1.00	0.00	H
ATOM	3945	CG	PHE	D	128	25.084	103.357	-42.529	1.00	0.00	C
ATOM	3946	CD1	PHE	D	128	25.335	104.307	-41.517	1.00	0.00	C
ATOM	3947	HD1	PHE	D	128	26.083	105.072	-41.658	1.00	0.00	H
ATOM	3948	CD2	PHE	D	128	24.094	102.378	-42.322	1.00	0.00	C
ATOM	3949	HD2	PHE	D	128	23.876	101.657	-43.097	1.00	0.00	H
ATOM	3950	CE1	PHE	D	128	24.613	104.270	-40.310	1.00	0.00	C

ATOM	3951	HE1	PHE	D	128	24.802	105.009	-39.543	1.00	0.00	H
ATOM	3952	CE2	PHE	D	128	23.382	102.334	-41.112	1.00	0.00	C
ATOM	3953	HE2	PHE	D	128	22.627	101.578	-40.966	1.00	0.00	H
ATOM	3954	CZ	PHE	D	128	23.643	103.275	-40.103	1.00	0.00	C
ATOM	3955	HZ	PHE	D	128	23.093	103.236	-39.174	1.00	0.00	H
ATOM	3956	N	GLN	D	129	26.470	104.418	-46.884	1.00	0.00	N
ATOM	3957	H	GLN	D	129	25.482	104.183	-46.915	1.00	0.00	H
ATOM	3958	CA	GLN	D	129	27.223	104.389	-48.151	1.00	0.00	C
ATOM	3959	HA	GLN	D	129	27.959	103.591	-48.074	1.00	0.00	H
ATOM	3960	C	GLN	D	129	27.989	105.696	-48.421	1.00	0.00	C
ATOM	3961	O	GLN	D	129	29.070	105.671	-49.008	1.00	0.00	O
ATOM	3962	CB	GLN	D	129	26.280	104.059	-49.323	1.00	0.00	C
ATOM	3963	1HB	GLN	D	129	25.535	103.334	-49.006	1.00	0.00	H
ATOM	3964	2HB	GLN	D	129	25.759	104.965	-49.638	1.00	0.00	H
ATOM	3965	CG	GLN	D	129	27.023	103.448	-50.519	1.00	0.00	C
ATOM	3966	1HG	GLN	D	129	27.754	104.160	-50.904	1.00	0.00	H
ATOM	3967	2HG	GLN	D	129	27.548	102.548	-50.202	1.00	0.00	H
ATOM	3968	CD	GLN	D	129	26.054	103.093	-51.642	1.00	0.00	C
ATOM	3969	OE1	GLN	D	129	25.703	103.921	-52.465	1.00	0.00	O
ATOM	3970	NE2	GLN	D	129	25.576	101.870	-51.719	1.00	0.00	N
ATOM	3971	1HE2	GLN	D	129	24.926	101.685	-52.460	1.00	0.00	H
ATOM	3972	2HE2	GLN	D	129	25.849	101.142	-51.063	1.00	0.00	H
ATOM	3973	N	SER	D	130	27.465	106.828	-47.937	1.00	0.00	N
ATOM	3974	H	SER	D	130	26.559	106.769	-47.489	1.00	0.00	H
ATOM	3975	CA	SER	D	130	28.112	108.148	-47.996	1.00	0.00	C
ATOM	3976	HA	SER	D	130	28.371	108.355	-49.034	1.00	0.00	H
ATOM	3977	C	SER	D	130	29.413	108.265	-47.179	1.00	0.00	C
ATOM	3978	O	SER	D	130	30.161	109.223	-47.376	1.00	0.00	O
ATOM	3979	CB	SER	D	130	27.132	109.230	-47.531	1.00	0.00	C
ATOM	3980	1HB	SER	D	130	26.833	109.043	-46.500	1.00	0.00	H
ATOM	3981	2HB	SER	D	130	27.628	110.200	-47.576	1.00	0.00	H
ATOM	3982	OG	SER	D	130	25.987	109.271	-48.364	1.00	0.00	O
ATOM	3983	HG	SER	D	130	25.418	108.503	-48.172	1.00	0.00	H
ATOM	3984	N	CYS	D	131	29.707	107.304	-46.293	1.00	0.00	N
ATOM	3985	H	CYS	D	131	29.033	106.557	-46.176	1.00	0.00	H
ATOM	3986	CA	CYS	D	131	30.889	107.292	-45.421	1.00	0.00	C
ATOM	3987	HA	CYS	D	131	31.530	108.144	-45.653	1.00	0.00	H
ATOM	3988	C	CYS	D	131	31.759	106.032	-45.583	1.00	0.00	C
ATOM	3989	O	CYS	D	131	32.974	106.106	-45.405	1.00	0.00	O
ATOM	3990	CB	CYS	D	131	30.433	107.417	-43.963	1.00	0.00	C
ATOM	3991	1HB	CYS	D	131	29.688	106.650	-43.739	1.00	0.00	H
ATOM	3992	2HB	CYS	D	131	31.294	107.261	-43.313	1.00	0.00	H
ATOM	3993	SG	CYS	D	131	29.745	109.058	-43.614	1.00	0.00	S
ATOM	3994	HG	CYS	D	131	29.621	108.840	-42.294	1.00	0.00	H
ATOM	3995	N	GLY	D	132	31.173	104.890	-45.950	1.00	0.00	N
ATOM	3996	H	GLY	D	132	30.160	104.866	-46.028	1.00	0.00	H
ATOM	3997	CA	GLY	D	132	31.887	103.658	-46.288	1.00	0.00	C
ATOM	3998	1HA	GLY	D	132	32.778	103.900	-46.867	1.00	0.00	H
ATOM	3999	2HA	GLY	D	132	32.189	103.142	-45.377	1.00	0.00	H
ATOM	4000	C	GLY	D	132	30.986	102.734	-47.102	1.00	0.00	C
ATOM	4001	O	GLY	D	132	29.800	102.619	-46.807	1.00	0.00	O
ATOM	4002	N	THR	D	133	31.522	102.112	-48.156	1.00	0.00	N
ATOM	4003	H	THR	D	133	32.508	102.207	-48.334	1.00	0.00	H
ATOM	4004	CA	THR	D	133	30.696	101.342	-49.100	1.00	0.00	C
ATOM	4005	HA	THR	D	133	29.934	102.029	-49.470	1.00	0.00	H
ATOM	4006	C	THR	D	133	29.956	100.190	-48.411	1.00	0.00	C
ATOM	4007	O	THR	D	133	30.546	99.388	-47.691	1.00	0.00	O
ATOM	4008	CB	THR	D	133	31.485	100.895	-50.340	1.00	0.00	C
ATOM	4009	HB	THR	D	133	31.934	101.785	-50.782	1.00	0.00	H
ATOM	4010	OG1	THR	D	133	30.605	100.337	-51.281	1.00	0.00	O
ATOM	4011	HG1	THR	D	133	30.587	99.383	-51.134	1.00	0.00	H
ATOM	4012	CG2	THR	D	133	32.589	99.869	-50.112	1.00	0.00	C
ATOM	4013	1HG2	THR	D	133	33.213	99.805	-51.003	1.00	0.00	H
ATOM	4014	2HG2	THR	D	133	32.148	98.892	-49.925	1.00	0.00	H
ATOM	4015	3HG2	THR	D	133	33.208	100.161	-49.264	1.00	0.00	H
ATOM	4016	N	VAL	D	134	28.646	100.139	-48.644	1.00	0.00	N
ATOM	4017	H	VAL	D	134	28.264	100.802	-49.301	1.00	0.00	H
ATOM	4018	CA	VAL	D	134	27.671	99.212	-48.056	1.00	0.00	C
ATOM	4019	HA	VAL	D	134	28.177	98.305	-47.736	1.00	0.00	H
ATOM	4020	C	VAL	D	134	26.666	98.860	-49.158	1.00	0.00	C
ATOM	4021	O	VAL	D	134	26.421	99.696	-50.035	1.00	0.00	O
ATOM	4022	CB	VAL	D	134	27.019	99.858	-46.815	1.00	0.00	C
ATOM	4023	HB	VAL	D	134	27.803	100.353	-46.240	1.00	0.00	H
ATOM	4024	CG1	VAL	D	134	25.964	100.910	-47.162	1.00	0.00	C
ATOM	4025	1HG1	VAL	D	134	26.409	101.651	-47.817	1.00	0.00	H
ATOM	4026	2HG1	VAL	D	134	25.620	101.399	-46.257	1.00	0.00	H
ATOM	4027	3HG1	VAL	D	134	25.105	100.455	-47.657	1.00	0.00	H

ATOM	4028	CG2	VAL	D	134	26.383	98.829	-45.886	1.00	0.00	C
ATOM	4029	1HG2	VAL	D	134	27.144	98.130	-45.540	1.00	0.00	H
ATOM	4030	2HG2	VAL	D	134	25.595	98.283	-46.405	1.00	0.00	H
ATOM	4031	3HG2	VAL	D	134	25.964	99.336	-45.019	1.00	0.00	H
ATOM	4032	N	ASN	D	135	26.141	97.634	-49.170	1.00	0.00	N
ATOM	4033	H	ASN	D	135	26.364	96.999	-48.405	1.00	0.00	H
ATOM	4034	CA	ASN	D	135	25.496	97.065	-50.359	1.00	0.00	C
ATOM	4035	HA	ASN	D	135	25.458	97.811	-51.154	1.00	0.00	H
ATOM	4036	C	ASN	D	135	24.028	96.676	-50.120	1.00	0.00	C
ATOM	4037	O	ASN	D	135	23.173	97.168	-50.858	1.00	0.00	O
ATOM	4038	CB	ASN	D	135	26.389	95.923	-50.877	1.00	0.00	C
ATOM	4039	1HB	ASN	D	135	27.247	96.351	-51.389	1.00	0.00	H
ATOM	4040	2HB	ASN	D	135	26.768	95.333	-50.045	1.00	0.00	H
ATOM	4041	CG	ASN	D	135	25.688	95.003	-51.858	1.00	0.00	C
ATOM	4042	OD1	ASN	D	135	25.510	95.321	-53.020	1.00	0.00	O
ATOM	4043	ND2	ASN	D	135	25.272	93.844	-51.416	1.00	0.00	N
ATOM	4044	1HD2	ASN	D	135	24.880	93.196	-52.068	1.00	0.00	H
ATOM	4045	2HD2	ASN	D	135	25.417	93.616	-50.424	1.00	0.00	H
ATOM	4046	N	ARG	D	136	23.701	95.876	-49.097	1.00	0.00	N
ATOM	4047	H	ARG	D	136	24.460	95.395	-48.613	1.00	0.00	H
ATOM	4048	CA	ARG	D	136	22.314	95.469	-48.772	1.00	0.00	C
ATOM	4049	HA	ARG	D	136	21.630	95.992	-49.436	1.00	0.00	H
ATOM	4050	C	ARG	D	136	21.867	95.909	-47.376	1.00	0.00	C
ATOM	4051	O	ARG	D	136	22.678	96.319	-46.547	1.00	0.00	O
ATOM	4052	CB	ARG	D	136	22.150	93.944	-48.984	1.00	0.00	C
ATOM	4053	1HB	ARG	D	136	23.100	93.497	-49.278	1.00	0.00	H
ATOM	4054	2HB	ARG	D	136	21.875	93.479	-48.036	1.00	0.00	H
ATOM	4055	CG	ARG	D	136	21.099	93.538	-50.033	1.00	0.00	C
ATOM	4056	1HG	ARG	D	136	20.949	92.463	-49.937	1.00	0.00	H
ATOM	4057	2HG	ARG	D	136	20.147	94.024	-49.814	1.00	0.00	H
ATOM	4058	CD	ARG	D	136	21.518	93.828	-51.486	1.00	0.00	C
ATOM	4059	1HD	ARG	D	136	22.542	93.484	-51.636	1.00	0.00	H
ATOM	4060	2HD	ARG	D	136	20.885	93.260	-52.164	1.00	0.00	H
ATOM	4061	NE	ARG	D	136	21.425	95.257	-51.815	1.00	0.00	N
ATOM	4062	HE	ARG	D	136	22.235	95.830	-51.612	1.00	0.00	H
ATOM	4063	CZ	ARG	D	136	20.357	95.940	-52.171	1.00	0.00	C
ATOM	4064	NH1	ARG	D	136	19.249	95.390	-52.561	1.00	0.00	N
ATOM	4065	1HH1	ARG	D	136	19.163	94.389	-52.669	1.00	0.00	H
ATOM	4066	2HH1	ARG	D	136	18.506	96.042	-52.820	1.00	0.00	H
ATOM	4067	NH2	ARG	D	136	20.357	97.234	-52.108	1.00	0.00	N
ATOM	4068	1HH2	ARG	D	136	21.108	97.744	-51.663	1.00	0.00	H
ATOM	4069	2HH2	ARG	D	136	19.474	97.698	-52.333	1.00	0.00	H
ATOM	4070	N	VAL	D	137	20.553	95.833	-47.149	1.00	0.00	N
ATOM	4071	H	VAL	D	137	19.971	95.447	-47.877	1.00	0.00	H
ATOM	4072	CA	VAL	D	137	19.845	96.281	-45.938	1.00	0.00	C
ATOM	4073	HA	VAL	D	137	20.502	96.135	-45.087	1.00	0.00	H
ATOM	4074	C	VAL	D	137	18.568	95.463	-45.717	1.00	0.00	C
ATOM	4075	O	VAL	D	137	17.903	95.115	-46.689	1.00	0.00	O
ATOM	4076	CB	VAL	D	137	19.502	97.787	-46.047	1.00	0.00	C
ATOM	4077	HB	VAL	D	137	20.441	98.322	-46.188	1.00	0.00	H
ATOM	4078	CG1	VAL	D	137	18.605	98.137	-47.241	1.00	0.00	C
ATOM	4079	1HG1	VAL	D	137	17.639	97.642	-47.161	1.00	0.00	H
ATOM	4080	2HG1	VAL	D	137	19.082	97.837	-48.174	1.00	0.00	H
ATOM	4081	3HG1	VAL	D	137	18.444	99.213	-47.270	1.00	0.00	H
ATOM	4082	CG2	VAL	D	137	18.838	98.359	-44.785	1.00	0.00	C
ATOM	4083	1HG2	VAL	D	137	18.798	99.446	-44.854	1.00	0.00	H
ATOM	4084	2HG2	VAL	D	137	19.410	98.084	-43.900	1.00	0.00	H
ATOM	4085	3HG2	VAL	D	137	17.825	97.974	-44.677	1.00	0.00	H
ATOM	4086	N	THR	D	138	18.187	95.254	-44.454	1.00	0.00	N
ATOM	4087	H	THR	D	138	18.823	95.548	-43.719	1.00	0.00	H
ATOM	4088	CA	THR	D	138	16.898	94.674	-44.015	1.00	0.00	C
ATOM	4089	HA	THR	D	138	16.157	94.784	-44.804	1.00	0.00	H
ATOM	4090	C	THR	D	138	16.416	95.414	-42.759	1.00	0.00	C
ATOM	4091	O	THR	D	138	17.229	96.015	-42.056	1.00	0.00	O
ATOM	4092	CB	THR	D	138	17.049	93.178	-43.693	1.00	0.00	C
ATOM	4093	HB	THR	D	138	17.690	93.101	-42.823	1.00	0.00	H
ATOM	4094	OG1	THR	D	138	17.645	92.487	-44.764	1.00	0.00	O
ATOM	4095	HG1	THR	D	138	17.907	91.624	-44.417	1.00	0.00	H
ATOM	4096	CG2	THR	D	138	15.736	92.447	-43.412	1.00	0.00	C
ATOM	4097	1HG2	THR	D	138	15.322	92.762	-42.454	1.00	0.00	H
ATOM	4098	2HG2	THR	D	138	15.919	91.373	-43.343	1.00	0.00	H
ATOM	4099	3HG2	THR	D	138	15.018	92.632	-44.210	1.00	0.00	H
ATOM	4100	N	ILE	D	139	15.106	95.417	-42.482	1.00	0.00	N
ATOM	4101	H	ILE	D	139	14.493	94.836	-43.036	1.00	0.00	H
ATOM	4102	CA	ILE	D	139	14.485	96.137	-41.356	1.00	0.00	C
ATOM	4103	HA	ILE	D	139	15.177	96.121	-40.514	1.00	0.00	H
ATOM	4104	C	ILE	D	139	13.185	95.454	-40.899	1.00	0.00	C

ATOM	4105	O	ILE	D	139	12.456	94.879	-41.712	1.00	0.00	O
ATOM	4106	CB	ILE	D	139	14.235	97.615	-41.760	1.00	0.00	C
ATOM	4107	HB	ILE	D	139	15.178	98.005	-42.147	1.00	0.00	H
ATOM	4108	CG1	ILE	D	139	13.839	98.503	-40.559	1.00	0.00	C
ATOM	4109	1HG1	ILE	D	139	12.821	98.273	-40.245	1.00	0.00	H
ATOM	4110	2HG1	ILE	D	139	14.505	98.286	-39.727	1.00	0.00	H
ATOM	4111	CG2	ILE	D	139	13.183	97.730	-42.880	1.00	0.00	C
ATOM	4112	1HG2	ILE	D	139	13.101	98.760	-43.207	1.00	0.00	H
ATOM	4113	2HG2	ILE	D	139	12.204	97.407	-42.525	1.00	0.00	H
ATOM	4114	3HG2	ILE	D	139	13.468	97.117	-43.734	1.00	0.00	H
ATOM	4115	CD1	ILE	D	139	13.934	100.011	-40.837	1.00	0.00	C
ATOM	4116	1HD1	ILE	D	139	14.932	100.262	-41.198	1.00	0.00	H
ATOM	4117	2HD1	ILE	D	139	13.744	100.558	-39.914	1.00	0.00	H
ATOM	4118	3HD1	ILE	D	139	13.191	100.313	-41.575	1.00	0.00	H
ATOM	4119	N	LEU	D	140	12.856	95.594	-39.612	1.00	0.00	N
ATOM	4120	H	LEU	D	140	13.518	96.074	-39.008	1.00	0.00	H
ATOM	4121	CA	LEU	D	140	11.571	95.201	-39.019	1.00	0.00	C
ATOM	4122	HA	LEU	D	140	10.811	95.264	-39.798	1.00	0.00	H
ATOM	4123	C	LEU	D	140	11.171	96.219	-37.921	1.00	0.00	C
ATOM	4124	O	LEU	D	140	11.774	97.289	-37.812	1.00	0.00	O
ATOM	4125	CB	LEU	D	140	11.691	93.718	-38.589	1.00	0.00	C
ATOM	4126	1HB	LEU	D	140	12.048	93.157	-39.455	1.00	0.00	H
ATOM	4127	2HB	LEU	D	140	12.467	93.637	-37.836	1.00	0.00	H
ATOM	4128	CG	LEU	D	140	10.430	92.999	-38.073	1.00	0.00	C
ATOM	4129	HG	LEU	D	140	10.139	93.410	-37.108	1.00	0.00	H
ATOM	4130	CD1	LEU	D	140	9.242	93.131	-39.031	1.00	0.00	C
ATOM	4131	1HD1	LEU	D	140	8.935	94.171	-39.125	1.00	0.00	H
ATOM	4132	2HD1	LEU	D	140	8.399	92.547	-38.665	1.00	0.00	H
ATOM	4133	3HD1	LEU	D	140	9.530	92.759	-40.016	1.00	0.00	H
ATOM	4134	CD2	LEU	D	140	10.706	91.510	-37.872	1.00	0.00	C
ATOM	4135	1HD2	LEU	D	140	11.005	91.052	-38.817	1.00	0.00	H
ATOM	4136	2HD2	LEU	D	140	9.823	91.002	-37.490	1.00	0.00	H
ATOM	4137	3HD2	LEU	D	140	11.520	91.382	-37.159	1.00	0.00	H
ATOM	4138	N	THR	D	141	10.092	95.995	-37.162	1.00	0.00	N
ATOM	4139	H	THR	D	141	9.626	95.106	-37.234	1.00	0.00	H
ATOM	4140	CA	THR	D	141	9.585	96.972	-36.178	1.00	0.00	C
ATOM	4141	HA	THR	D	141	10.445	97.468	-35.726	1.00	0.00	H
ATOM	4142	C	THR	D	141	8.802	96.337	-35.030	1.00	0.00	C
ATOM	4143	O	THR	D	141	7.929	95.489	-35.229	1.00	0.00	O
ATOM	4144	CB	THR	D	141	8.741	98.043	-36.894	1.00	0.00	C
ATOM	4145	HB	THR	D	141	8.222	97.590	-37.740	1.00	0.00	H
ATOM	4146	OG1	THR	D	141	9.623	99.031	-37.366	1.00	0.00	O
ATOM	4147	HG1	THR	D	141	10.383	98.568	-37.761	1.00	0.00	H
ATOM	4148	CG2	THR	D	141	7.708	98.783	-36.039	1.00	0.00	C
ATOM	4149	1HG2	THR	D	141	6.886	98.111	-35.790	1.00	0.00	H
ATOM	4150	2HG2	THR	D	141	7.309	99.627	-36.602	1.00	0.00	H
ATOM	4151	3HG2	THR	D	141	8.169	99.140	-35.122	1.00	0.00	H
ATOM	4152	N	ASP	D	142	9.131	96.799	-33.821	1.00	0.00	N
ATOM	4153	H	ASP	D	142	10.029	97.262	-33.787	1.00	0.00	H
ATOM	4154	CA	ASP	D	142	8.615	96.365	-32.525	1.00	0.00	C
ATOM	4155	HA	ASP	D	142	9.053	95.392	-32.342	1.00	0.00	H
ATOM	4156	C	ASP	D	142	7.088	96.166	-32.431	1.00	0.00	C
ATOM	4157	O	ASP	D	142	6.281	96.850	-33.061	1.00	0.00	O
ATOM	4158	CB	ASP	D	142	9.181	97.290	-31.432	1.00	0.00	C
ATOM	4159	1HB	ASP	D	142	10.199	96.977	-31.194	1.00	0.00	H
ATOM	4160	2HB	ASP	D	142	9.238	98.305	-31.809	1.00	0.00	H
ATOM	4161	CG	ASP	D	142	8.337	97.279	-30.161	1.00	0.00	C
ATOM	4162	OD1	ASP	D	142	8.372	96.271	-29.427	1.00	0.00	O
ATOM	4163	OD2	ASP	D	142	7.558	98.234	-29.950	1.00	0.00	O
ATOM	4164	N	LYS	D	143	6.715	95.210	-31.573	1.00	0.00	N
ATOM	4165	H	LYS	D	143	7.461	94.799	-31.022	1.00	0.00	H
ATOM	4166	CA	LYS	D	143	5.355	94.692	-31.358	1.00	0.00	C
ATOM	4167	HA	LYS	D	143	4.638	95.344	-31.858	1.00	0.00	H
ATOM	4168	C	LYS	D	143	4.952	94.681	-29.868	1.00	0.00	C
ATOM	4169	O	LYS	D	143	3.918	94.110	-29.528	1.00	0.00	O
ATOM	4170	CB	LYS	D	143	5.288	93.289	-31.999	1.00	0.00	C
ATOM	4171	1HB	LYS	D	143	6.171	92.727	-31.687	1.00	0.00	H
ATOM	4172	2HB	LYS	D	143	4.410	92.753	-31.635	1.00	0.00	H
ATOM	4173	CG	LYS	D	143	5.204	93.332	-33.540	1.00	0.00	C
ATOM	4174	1HG	LYS	D	143	4.164	93.511	-33.817	1.00	0.00	H
ATOM	4175	2HG	LYS	D	143	5.781	94.168	-33.932	1.00	0.00	H
ATOM	4176	CD	LYS	D	143	5.679	92.015	-34.195	1.00	0.00	C
ATOM	4177	1HD	LYS	D	143	5.851	91.256	-33.429	1.00	0.00	H
ATOM	4178	2HD	LYS	D	143	4.881	91.642	-34.839	1.00	0.00	H
ATOM	4179	CE	LYS	D	143	6.950	92.150	-35.054	1.00	0.00	C
ATOM	4180	1HE	LYS	D	143	7.293	91.150	-35.334	1.00	0.00	H
ATOM	4181	2HE	LYS	D	143	6.703	92.692	-35.972	1.00	0.00	H



ATOM	4182	NZ	LYS	D	143	8.032	92.871	-34.351	1.00	0.00	N
ATOM	4183	1HZ	LYS	D	143	8.931	92.855	-34.837	1.00	0.00	H
ATOM	4184	2HZ	LYS	D	143	8.222	92.541	-33.413	1.00	0.00	H
ATOM	4185	3HZ	LYS	D	143	7.845	93.872	-34.323	1.00	0.00	H
ATOM	4186	N	PHE	D	144	5.743	95.295	-28.980	1.00	0.00	N
ATOM	4187	H	PHE	D	144	6.592	95.738	-29.323	1.00	0.00	H
ATOM	4188	CA	PHE	D	144	5.585	95.207	-27.522	1.00	0.00	C
ATOM	4189	HA	PHE	D	144	4.569	94.889	-27.286	1.00	0.00	H
ATOM	4190	C	PHE	D	144	5.817	96.542	-26.787	1.00	0.00	C
ATOM	4191	O	PHE	D	144	5.025	96.889	-25.909	1.00	0.00	O
ATOM	4192	CB	PHE	D	144	6.554	94.128	-27.020	1.00	0.00	C
ATOM	4193	1HB	PHE	D	144	6.430	93.229	-27.626	1.00	0.00	H
ATOM	4194	2HB	PHE	D	144	7.571	94.486	-27.179	1.00	0.00	H
ATOM	4195	CG	PHE	D	144	6.388	93.724	-25.566	1.00	0.00	C
ATOM	4196	CD1	PHE	D	144	5.278	92.953	-25.172	1.00	0.00	C
ATOM	4197	HD1	PHE	D	144	4.537	92.669	-25.905	1.00	0.00	H
ATOM	4198	CD2	PHE	D	144	7.364	94.073	-24.615	1.00	0.00	C
ATOM	4199	HD2	PHE	D	144	8.229	94.647	-24.917	1.00	0.00	H
ATOM	4200	CE1	PHE	D	144	5.140	92.544	-23.832	1.00	0.00	C
ATOM	4201	HE1	PHE	D	144	4.287	91.951	-23.537	1.00	0.00	H
ATOM	4202	CE2	PHE	D	144	7.232	93.659	-23.278	1.00	0.00	C
ATOM	4203	HE2	PHE	D	144	7.995	93.927	-22.560	1.00	0.00	H
ATOM	4204	CZ	PHE	D	144	6.117	92.897	-22.884	1.00	0.00	C
ATOM	4205	HZ	PHE	D	144	6.020	92.577	-21.858	1.00	0.00	H
ATOM	4206	N	GLY	D	145	6.827	97.337	-27.165	1.00	0.00	N
ATOM	4207	H	GLY	D	145	7.438	97.019	-27.917	1.00	0.00	H
ATOM	4208	CA	GLY	D	145	7.070	98.654	-26.554	1.00	0.00	C
ATOM	4209	1HA	GLY	D	145	6.206	99.289	-26.738	1.00	0.00	H
ATOM	4210	2HA	GLY	D	145	7.158	98.507	-25.477	1.00	0.00	H
ATOM	4211	C	GLY	D	145	8.330	99.406	-27.006	1.00	0.00	C
ATOM	4212	O	GLY	D	145	8.295	100.637	-27.078	1.00	0.00	O
ATOM	4213	N	GLN	D	146	9.400	98.686	-27.336	1.00	0.00	N
ATOM	4214	H	GLN	D	146	9.279	97.678	-27.265	1.00	0.00	H
ATOM	4215	CA	GLN	D	146	10.780	99.127	-27.597	1.00	0.00	C
ATOM	4216	HA	GLN	D	146	11.171	99.554	-26.673	1.00	0.00	H
ATOM	4217	C	GLN	D	146	10.948	100.215	-28.699	1.00	0.00	C
ATOM	4218	O	GLN	D	146	10.009	100.470	-29.460	1.00	0.00	O
ATOM	4219	CB	GLN	D	146	11.591	97.848	-27.915	1.00	0.00	C
ATOM	4220	1HB	GLN	D	146	11.052	97.228	-28.635	1.00	0.00	H
ATOM	4221	2HB	GLN	D	146	12.526	98.128	-28.397	1.00	0.00	H
ATOM	4222	CG	GLN	D	146	11.946	97.006	-26.668	1.00	0.00	C
ATOM	4223	1HG	GLN	D	146	12.852	96.458	-26.909	1.00	0.00	H
ATOM	4224	2HG	GLN	D	146	12.184	97.654	-25.823	1.00	0.00	H
ATOM	4225	CD	GLN	D	146	10.901	95.974	-26.235	1.00	0.00	C
ATOM	4226	OE1	GLN	D	146	9.698	96.183	-26.290	1.00	0.00	O
ATOM	4227	NE2	GLN	D	146	11.305	94.800	-25.821	1.00	0.00	N
ATOM	4228	1HE2	GLN	D	146	10.619	94.067	-25.733	1.00	0.00	H
ATOM	4229	2HE2	GLN	D	146	12.307	94.564	-25.861	1.00	0.00	H
ATOM	4230	N	PRO	D	147	12.116	100.895	-28.809	1.00	0.00	N
ATOM	4231	CA	PRO	D	147	12.420	101.929	-29.821	1.00	0.00	C
ATOM	4232	HA	PRO	D	147	11.639	102.687	-29.772	1.00	0.00	H
ATOM	4233	C	PRO	D	147	12.448	101.433	-31.291	1.00	0.00	C
ATOM	4234	O	PRO	D	147	13.507	101.270	-31.897	1.00	0.00	O
ATOM	4235	CB	PRO	D	147	13.722	102.605	-29.357	1.00	0.00	C
ATOM	4236	1HB	PRO	D	147	14.362	102.920	-30.181	1.00	0.00	H
ATOM	4237	2HB	PRO	D	147	13.475	103.471	-28.741	1.00	0.00	H
ATOM	4238	CG	PRO	D	147	14.393	101.552	-28.480	1.00	0.00	C
ATOM	4239	1HG	PRO	D	147	14.942	100.841	-29.097	1.00	0.00	H
ATOM	4240	2HG	PRO	D	147	15.051	101.998	-27.734	1.00	0.00	H
ATOM	4241	CD	PRO	D	147	13.201	100.855	-27.832	1.00	0.00	C
ATOM	4242	1HD	PRO	D	147	13.477	99.843	-27.558	1.00	0.00	H
ATOM	4243	2HD	PRO	D	147	12.904	101.404	-26.937	1.00	0.00	H
ATOM	4244	N	LYS	D	148	11.238	101.191	-31.818	1.00	0.00	N
ATOM	4245	H	LYS	D	148	10.493	101.235	-31.138	1.00	0.00	H
ATOM	4246	CA	LYS	D	148	10.830	100.749	-33.166	1.00	0.00	C
ATOM	4247	HA	LYS	D	148	10.688	99.669	-33.141	1.00	0.00	H
ATOM	4248	C	LYS	D	148	11.818	101.051	-34.300	1.00	0.00	C
ATOM	4249	O	LYS	D	148	12.016	102.217	-34.636	1.00	0.00	O
ATOM	4250	CB	LYS	D	148	9.485	101.409	-33.553	1.00	0.00	C
ATOM	4251	1HB	LYS	D	148	9.634	102.484	-33.655	1.00	0.00	H
ATOM	4252	2HB	LYS	D	148	9.216	101.043	-34.544	1.00	0.00	H
ATOM	4253	CG	LYS	D	148	8.287	101.161	-32.621	1.00	0.00	C
ATOM	4254	1HG	LYS	D	148	7.383	101.106	-33.230	1.00	0.00	H
ATOM	4255	2HG	LYS	D	148	8.405	100.209	-32.118	1.00	0.00	H
ATOM	4256	CD	LYS	D	148	8.092	102.282	-31.588	1.00	0.00	C
ATOM	4257	1HD	LYS	D	148	9.013	102.454	-31.032	1.00	0.00	H
ATOM	4258	2HD	LYS	D	148	7.845	103.202	-32.120	1.00	0.00	H

ATOM	4259	CE	LYS	D	148	6.957	101.967	-30.606	1.00	0.00	C
ATOM	4260	1HE	LYS	D	148	6.772	102.860	-30.006	1.00	0.00	H
ATOM	4261	2HE	LYS	D	148	6.051	101.731	-31.171	1.00	0.00	H
ATOM	4262	NZ	LYS	D	148	7.302	100.841	-29.709	1.00	0.00	N
ATOM	4263	1HZ	LYS	D	148	8.240	100.921	-29.319	1.00	0.00	H
ATOM	4264	2HZ	LYS	D	148	7.329	99.932	-30.182	1.00	0.00	H
ATOM	4265	3HZ	LYS	D	148	6.676	100.729	-28.930	1.00	0.00	H
ATOM	4266	N	GLY	D	149	12.296	99.999	-34.968	1.00	0.00	N
ATOM	4267	H	GLY	D	149	12.110	99.075	-34.613	1.00	0.00	H
ATOM	4268	CA	GLY	D	149	12.845	100.104	-36.326	1.00	0.00	C
ATOM	4269	1HA	GLY	D	149	12.173	99.598	-37.013	1.00	0.00	H
ATOM	4270	2HA	GLY	D	149	12.894	101.148	-36.638	1.00	0.00	H
ATOM	4271	C	GLY	D	149	14.233	99.504	-36.522	1.00	0.00	C
ATOM	4272	O	GLY	D	149	14.966	100.017	-37.364	1.00	0.00	O
ATOM	4273	N	PHE	D	150	14.658	98.517	-35.717	1.00	0.00	N
ATOM	4274	H	PHE	D	150	14.025	98.063	-35.078	1.00	0.00	H
ATOM	4275	CA	PHE	D	150	16.017	97.987	-35.871	1.00	0.00	C
ATOM	4276	HA	PHE	D	150	16.697	98.839	-35.842	1.00	0.00	H
ATOM	4277	C	PHE	D	150	16.201	97.309	-37.239	1.00	0.00	C
ATOM	4278	O	PHE	D	150	15.258	96.779	-37.834	1.00	0.00	O
ATOM	4279	CB	PHE	D	150	16.457	97.021	-34.760	1.00	0.00	C
ATOM	4280	1HB	PHE	D	150	16.169	96.019	-35.053	1.00	0.00	H
ATOM	4281	2HB	PHE	D	150	17.545	97.019	-34.762	1.00	0.00	H
ATOM	4282	CG	PHE	D	150	16.020	97.239	-33.322	1.00	0.00	C
ATOM	4283	CD1	PHE	D	150	15.790	98.525	-32.795	1.00	0.00	C
ATOM	4284	HD1	PHE	D	150	15.860	99.394	-33.430	1.00	0.00	H
ATOM	4285	CD2	PHE	D	150	15.935	96.117	-32.473	1.00	0.00	C
ATOM	4286	HD2	PHE	D	150	16.121	95.124	-32.858	1.00	0.00	H
ATOM	4287	CE1	PHE	D	150	15.457	98.679	-31.437	1.00	0.00	C
ATOM	4288	HE1	PHE	D	150	15.264	99.660	-31.035	1.00	0.00	H
ATOM	4289	CE2	PHE	D	150	15.629	96.274	-31.114	1.00	0.00	C
ATOM	4290	HE2	PHE	D	150	15.597	95.408	-30.465	1.00	0.00	H
ATOM	4291	CZ	PHE	D	150	15.375	97.554	-30.598	1.00	0.00	C
ATOM	4292	HZ	PHE	D	150	15.127	97.665	-29.554	1.00	0.00	H
ATOM	4293	N	ALA	D	151	17.442	97.316	-37.705	1.00	0.00	N
ATOM	4294	H	ALA	D	151	18.172	97.690	-37.108	1.00	0.00	H
ATOM	4295	CA	ALA	D	151	17.837	96.932	-39.049	1.00	0.00	C
ATOM	4296	HA	ALA	D	151	17.130	96.211	-39.462	1.00	0.00	H
ATOM	4297	C	ALA	D	151	19.225	96.279	-39.037	1.00	0.00	C
ATOM	4298	O	ALA	D	151	19.930	96.292	-38.023	1.00	0.00	O
ATOM	4299	CB	ALA	D	151	17.826	98.219	-39.896	1.00	0.00	C
ATOM	4300	1HB	ALA	D	151	18.191	98.024	-40.904	1.00	0.00	H
ATOM	4301	2HB	ALA	D	151	18.460	98.977	-39.439	1.00	0.00	H
ATOM	4302	3HB	ALA	D	151	16.810	98.607	-39.961	1.00	0.00	H
ATOM	4303	N	TYR	D	152	19.665	95.789	-40.192	1.00	0.00	N
ATOM	4304	H	TYR	D	152	19.034	95.781	-40.988	1.00	0.00	H
ATOM	4305	CA	TYR	D	152	21.075	95.489	-40.435	1.00	0.00	C
ATOM	4306	HA	TYR	D	152	21.668	96.134	-39.789	1.00	0.00	H
ATOM	4307	C	TYR	D	152	21.472	95.823	-41.875	1.00	0.00	C
ATOM	4308	O	TYR	D	152	20.615	95.947	-42.751	1.00	0.00	O
ATOM	4309	CB	TYR	D	152	21.395	94.031	-40.062	1.00	0.00	C
ATOM	4310	1HB	TYR	D	152	22.476	93.901	-40.045	1.00	0.00	H
ATOM	4311	2HB	TYR	D	152	21.040	93.849	-39.048	1.00	0.00	H
ATOM	4312	CG	TYR	D	152	20.815	92.980	-40.985	1.00	0.00	C
ATOM	4313	CD1	TYR	D	152	21.553	92.536	-42.101	1.00	0.00	C
ATOM	4314	HD1	TYR	D	152	22.536	92.941	-42.299	1.00	0.00	H
ATOM	4315	CD2	TYR	D	152	19.537	92.450	-40.731	1.00	0.00	C
ATOM	4316	HD2	TYR	D	152	18.944	92.823	-39.905	1.00	0.00	H
ATOM	4317	CE1	TYR	D	152	20.999	91.590	-42.984	1.00	0.00	C
ATOM	4318	HE1	TYR	D	152	21.548	91.277	-43.859	1.00	0.00	H
ATOM	4319	CE2	TYR	D	152	19.002	91.468	-41.584	1.00	0.00	C
ATOM	4320	HE2	TYR	D	152	18.010	91.069	-41.409	1.00	0.00	H
ATOM	4321	CZ	TYR	D	152	19.711	91.069	-42.735	1.00	0.00	C
ATOM	4322	OH	TYR	D	152	19.132	90.210	-43.614	1.00	0.00	O
ATOM	4323	HH	TYR	D	152	19.742	89.884	-44.282	1.00	0.00	H
ATOM	4324	N	VAL	D	153	22.776	95.977	-42.106	1.00	0.00	N
ATOM	4325	H	VAL	D	153	23.408	95.853	-41.320	1.00	0.00	H
ATOM	4326	CA	VAL	D	153	23.390	96.245	-43.421	1.00	0.00	C
ATOM	4327	HA	VAL	D	153	22.711	95.897	-44.195	1.00	0.00	H
ATOM	4328	C	VAL	D	153	24.694	95.454	-43.574	1.00	0.00	C
ATOM	4329	O	VAL	D	153	25.213	94.965	-42.573	1.00	0.00	O
ATOM	4330	CB	VAL	D	153	23.650	97.754	-43.641	1.00	0.00	C
ATOM	4331	HB	VAL	D	153	24.079	97.873	-44.632	1.00	0.00	H
ATOM	4332	CG1	VAL	D	153	22.373	98.593	-43.608	1.00	0.00	C
ATOM	4333	1HG1	VAL	D	153	21.931	98.588	-42.612	1.00	0.00	H
ATOM	4334	2HG1	VAL	D	153	21.671	98.165	-44.314	1.00	0.00	H
ATOM	4335	3HG1	VAL	D	153	22.590	99.618	-43.907	1.00	0.00	H

ATOM	4336	CG2	VAL	D	153	24.622	98.367	-42.626	1.00	0.00	C
ATOM	4337	1HG2	VAL	D	153	24.219	98.275	-41.617	1.00	0.00	H
ATOM	4338	2HG2	VAL	D	153	24.781	99.420	-42.851	1.00	0.00	H
ATOM	4339	3HG2	VAL	D	153	25.582	97.857	-42.687	1.00	0.00	H
ATOM	4340	N	GLU	D	154	25.252	95.330	-44.783	1.00	0.00	N
ATOM	4341	H	GLU	D	154	24.778	95.727	-45.587	1.00	0.00	H
ATOM	4342	CA	GLU	D	154	26.500	94.573	-45.020	1.00	0.00	C
ATOM	4343	HA	GLU	D	154	27.102	94.617	-44.113	1.00	0.00	H
ATOM	4344	C	GLU	D	154	27.395	95.137	-46.141	1.00	0.00	C
ATOM	4345	O	GLU	D	154	26.967	95.965	-46.951	1.00	0.00	O
ATOM	4346	CB	GLU	D	154	26.175	93.079	-45.266	1.00	0.00	C
ATOM	4347	1HB	GLU	D	154	27.106	92.513	-45.295	1.00	0.00	H
ATOM	4348	2HB	GLU	D	154	25.614	92.713	-44.406	1.00	0.00	H
ATOM	4349	CG	GLU	D	154	25.354	92.735	-46.521	1.00	0.00	C
ATOM	4350	1HG	GLU	D	154	25.082	91.679	-46.469	1.00	0.00	H
ATOM	4351	2HG	GLU	D	154	24.423	93.309	-46.503	1.00	0.00	H
ATOM	4352	CD	GLU	D	154	26.098	92.982	-47.840	1.00	0.00	C
ATOM	4353	OE1	GLU	D	154	25.544	93.722	-48.682	1.00	0.00	O
ATOM	4354	OE2	GLU	D	154	27.233	92.483	-48.015	1.00	0.00	O
ATOM	4355	N	PHE	D	155	28.636	94.640	-46.210	1.00	0.00	N
ATOM	4356	H	PHE	D	155	28.914	93.988	-45.486	1.00	0.00	H
ATOM	4357	CA	PHE	D	155	29.396	94.579	-47.465	1.00	0.00	C
ATOM	4358	HA	PHE	D	155	28.684	94.455	-48.283	1.00	0.00	H
ATOM	4359	C	PHE	D	155	30.347	93.371	-47.468	1.00	0.00	C
ATOM	4360	O	PHE	D	155	31.280	93.309	-46.664	1.00	0.00	O
ATOM	4361	CB	PHE	D	155	30.174	95.877	-47.722	1.00	0.00	C
ATOM	4362	1HB	PHE	D	155	29.562	96.722	-47.417	1.00	0.00	H
ATOM	4363	2HB	PHE	D	155	31.066	95.899	-47.098	1.00	0.00	H
ATOM	4364	CG	PHE	D	155	30.559	96.063	-49.183	1.00	0.00	C
ATOM	4365	CD1	PHE	D	155	29.747	96.840	-50.029	1.00	0.00	C
ATOM	4366	HD1	PHE	D	155	28.845	97.277	-49.641	1.00	0.00	H
ATOM	4367	CD2	PHE	D	155	31.712	95.452	-49.713	1.00	0.00	C
ATOM	4368	HD2	PHE	D	155	32.335	94.839	-49.077	1.00	0.00	H
ATOM	4369	CE1	PHE	D	155	30.086	97.029	-51.380	1.00	0.00	C
ATOM	4370	HE1	PHE	D	155	29.437	97.603	-52.028	1.00	0.00	H
ATOM	4371	CE2	PHE	D	155	32.066	95.653	-51.060	1.00	0.00	C
ATOM	4372	HE2	PHE	D	155	32.958	95.196	-51.460	1.00	0.00	H
ATOM	4373	CZ	PHE	D	155	31.253	96.439	-51.894	1.00	0.00	C
ATOM	4374	HZ	PHE	D	155	31.513	96.573	-52.935	1.00	0.00	H
ATOM	4375	N	VAL	D	156	30.126	92.427	-48.386	1.00	0.00	N
ATOM	4376	H	VAL	D	156	29.206	92.462	-48.822	1.00	0.00	H
ATOM	4377	CA	VAL	D	156	30.880	91.162	-48.519	1.00	0.00	C
ATOM	4378	HA	VAL	D	156	30.579	90.524	-47.689	1.00	0.00	H
ATOM	4379	C	VAL	D	156	32.409	91.316	-48.423	1.00	0.00	C
ATOM	4380	O	VAL	D	156	33.023	90.648	-47.597	1.00	0.00	O
ATOM	4381	CB	VAL	D	156	30.490	90.423	-49.819	1.00	0.00	C
ATOM	4382	HB	VAL	D	156	30.831	91.006	-50.675	1.00	0.00	H
ATOM	4383	CG1	VAL	D	156	31.135	89.032	-49.892	1.00	0.00	C
ATOM	4384	1HG1	VAL	D	156	32.222	89.111	-49.906	1.00	0.00	H
ATOM	4385	2HG1	VAL	D	156	30.822	88.525	-50.806	1.00	0.00	H
ATOM	4386	3HG1	VAL	D	156	30.830	88.432	-49.034	1.00	0.00	H
ATOM	4387	CG2	VAL	D	156	28.972	90.229	-49.945	1.00	0.00	C
ATOM	4388	1HG2	VAL	D	156	28.581	89.724	-49.061	1.00	0.00	H
ATOM	4389	2HG2	VAL	D	156	28.740	89.633	-50.828	1.00	0.00	H
ATOM	4390	3HG2	VAL	D	156	28.469	91.190	-50.051	1.00	0.00	H
ATOM	4391	N	GLU	D	157	33.039	92.199	-49.206	1.00	0.00	N
ATOM	4392	H	GLU	D	157	32.485	92.756	-49.836	1.00	0.00	H
ATOM	4393	CA	GLU	D	157	34.506	92.395	-49.180	1.00	0.00	C
ATOM	4394	HA	GLU	D	157	34.963	91.404	-49.222	1.00	0.00	H
ATOM	4395	C	GLU	D	157	34.987	93.060	-47.869	1.00	0.00	C
ATOM	4396	O	GLU	D	157	34.333	93.960	-47.336	1.00	0.00	O
ATOM	4397	CB	GLU	D	157	34.964	93.188	-50.424	1.00	0.00	C
ATOM	4398	1HB	GLU	D	157	34.129	93.265	-51.121	1.00	0.00	H
ATOM	4399	2HB	GLU	D	157	35.247	94.202	-50.139	1.00	0.00	H
ATOM	4400	CG	GLU	D	157	36.120	92.524	-51.192	1.00	0.00	C
ATOM	4401	1HG	GLU	D	157	35.819	91.514	-51.481	1.00	0.00	H
ATOM	4402	2HG	GLU	D	157	36.287	93.089	-52.112	1.00	0.00	H
ATOM	4403	CD	GLU	D	157	37.422	92.465	-50.383	1.00	0.00	C
ATOM	4404	OE1	GLU	D	157	38.303	93.320	-50.616	1.00	0.00	O
ATOM	4405	OE2	GLU	D	157	37.506	91.592	-49.490	1.00	0.00	O
ATOM	4406	N	ILE	D	158	36.123	92.603	-47.332	1.00	0.00	N
ATOM	4407	H	ILE	D	158	36.684	91.984	-47.923	1.00	0.00	H
ATOM	4408	CA	ILE	D	158	36.504	92.700	-45.912	1.00	0.00	C
ATOM	4409	HA	ILE	D	158	35.746	92.177	-45.338	1.00	0.00	H
ATOM	4410	C	ILE	D	158	36.519	94.142	-45.373	1.00	0.00	C
ATOM	4411	O	ILE	D	158	35.803	94.441	-44.410	1.00	0.00	O
ATOM	4412	CB	ILE	D	158	37.826	91.922	-45.665	1.00	0.00	C

ATOM	4413	HB	ILE	D	158	38.487	92.062	-46.524	1.00	0.00	H
ATOM	4414	CG1	ILE	D	158	37.577	90.405	-45.467	1.00	0.00	C
ATOM	4415	1HG1	ILE	D	158	38.539	89.916	-45.306	1.00	0.00	H
ATOM	4416	2HG1	ILE	D	158	36.977	90.257	-44.568	1.00	0.00	H
ATOM	4417	CG2	ILE	D	158	38.586	92.395	-44.408	1.00	0.00	C
ATOM	4418	1HG2	ILE	D	158	38.948	93.415	-44.538	1.00	0.00	H
ATOM	4419	2HG2	ILE	D	158	39.455	91.760	-44.237	1.00	0.00	H
ATOM	4420	3HG2	ILE	D	158	37.935	92.349	-43.534	1.00	0.00	H
ATOM	4421	CD1	ILE	D	158	36.888	89.667	-46.621	1.00	0.00	C
ATOM	4422	1HD1	ILE	D	158	35.861	90.013	-46.740	1.00	0.00	H
ATOM	4423	2HD1	ILE	D	158	36.864	88.600	-46.401	1.00	0.00	H
ATOM	4424	3HD1	ILE	D	158	37.443	89.822	-47.546	1.00	0.00	H
ATOM	4425	N	ASP	D	159	37.305	95.041	-45.976	1.00	0.00	N
ATOM	4426	H	ASP	D	159	37.829	94.747	-46.789	1.00	0.00	H
ATOM	4427	CA	ASP	D	159	37.559	96.378	-45.406	1.00	0.00	C
ATOM	4428	HA	ASP	D	159	37.731	96.256	-44.336	1.00	0.00	H
ATOM	4429	C	ASP	D	159	36.377	97.352	-45.569	1.00	0.00	C
ATOM	4430	O	ASP	D	159	36.235	98.309	-44.808	1.00	0.00	O
ATOM	4431	CB	ASP	D	159	38.838	96.975	-46.016	1.00	0.00	C
ATOM	4432	1HB	ASP	D	159	39.627	96.220	-45.997	1.00	0.00	H
ATOM	4433	2HB	ASP	D	159	38.651	97.247	-47.056	1.00	0.00	H
ATOM	4434	CG	ASP	D	159	39.326	98.199	-45.227	1.00	0.00	C
ATOM	4435	OD1	ASP	D	159	39.490	99.279	-45.836	1.00	0.00	O
ATOM	4436	OD2	ASP	D	159	39.544	98.044	-44.004	1.00	0.00	O
ATOM	4437	N	ALA	D	160	35.483	97.102	-46.526	1.00	0.00	N
ATOM	4438	H	ALA	D	160	35.593	96.259	-47.075	1.00	0.00	H
ATOM	4439	CA	ALA	D	160	34.343	97.971	-46.807	1.00	0.00	C
ATOM	4440	HA	ALA	D	160	34.706	98.945	-47.136	1.00	0.00	H
ATOM	4441	C	ALA	D	160	33.457	98.198	-45.571	1.00	0.00	C
ATOM	4442	O	ALA	D	160	33.288	99.337	-45.124	1.00	0.00	O
ATOM	4443	CB	ALA	D	160	33.560	97.327	-47.942	1.00	0.00	C
ATOM	4444	1HB	ALA	D	160	32.617	97.851	-48.069	1.00	0.00	H
ATOM	4445	2HB	ALA	D	160	33.345	96.292	-47.687	1.00	0.00	H
ATOM	4446	3HB	ALA	D	160	34.135	97.360	-48.868	1.00	0.00	H
ATOM	4447	N	VAL	D	161	32.970	97.112	-44.953	1.00	0.00	N
ATOM	4448	H	VAL	D	161	33.121	96.206	-45.376	1.00	0.00	H
ATOM	4449	CA	VAL	D	161	32.186	97.217	-43.714	1.00	0.00	C
ATOM	4450	HA	VAL	D	161	31.440	97.987	-43.899	1.00	0.00	H
ATOM	4451	C	VAL	D	161	33.028	97.704	-42.528	1.00	0.00	C
ATOM	4452	O	VAL	D	161	32.491	98.370	-41.652	1.00	0.00	O
ATOM	4453	CB	VAL	D	161	31.408	95.920	-43.400	1.00	0.00	C
ATOM	4454	HB	VAL	D	161	31.158	95.432	-44.343	1.00	0.00	H
ATOM	4455	CG1	VAL	D	161	32.193	94.926	-42.537	1.00	0.00	C
ATOM	4456	1HG1	VAL	D	161	32.274	95.289	-41.512	1.00	0.00	H
ATOM	4457	2HG1	VAL	D	161	33.190	94.786	-42.948	1.00	0.00	H
ATOM	4458	3HG1	VAL	D	161	31.659	93.975	-42.523	1.00	0.00	H
ATOM	4459	CG2	VAL	D	161	30.092	96.248	-42.687	1.00	0.00	C
ATOM	4460	1HG2	VAL	D	161	30.291	96.747	-41.740	1.00	0.00	H
ATOM	4461	2HG2	VAL	D	161	29.538	95.330	-42.494	1.00	0.00	H
ATOM	4462	3HG2	VAL	D	161	29.478	96.892	-43.317	1.00	0.00	H
ATOM	4463	N	GLN	D	162	34.345	97.453	-42.508	1.00	0.00	N
ATOM	4464	H	GLN	D	162	34.751	96.953	-43.287	1.00	0.00	H
ATOM	4465	CA	GLN	D	162	35.256	97.970	-41.473	1.00	0.00	C
ATOM	4466	HA	GLN	D	162	34.858	97.680	-40.502	1.00	0.00	H
ATOM	4467	C	GLN	D	162	35.335	99.510	-41.474	1.00	0.00	C
ATOM	4468	O	GLN	D	162	35.498	100.117	-40.417	1.00	0.00	O
ATOM	4469	CB	GLN	D	162	36.638	97.307	-41.628	1.00	0.00	C
ATOM	4470	1HB	GLN	D	162	36.505	96.224	-41.607	1.00	0.00	H
ATOM	4471	2HB	GLN	D	162	37.073	97.581	-42.585	1.00	0.00	H
ATOM	4472	CG	GLN	D	162	37.631	97.699	-40.524	1.00	0.00	C
ATOM	4473	1HG	GLN	D	162	37.938	98.735	-40.664	1.00	0.00	H
ATOM	4474	2HG	GLN	D	162	37.144	97.608	-39.553	1.00	0.00	H
ATOM	4475	CD	GLN	D	162	38.877	96.816	-40.523	1.00	0.00	C
ATOM	4476	OE1	GLN	D	162	39.134	96.068	-39.594	1.00	0.00	O
ATOM	4477	NE2	GLN	D	162	39.712	96.857	-41.535	1.00	0.00	N
ATOM	4478	1HE2	GLN	D	162	40.483	96.224	-41.510	1.00	0.00	H
ATOM	4479	2HE2	GLN	D	162	39.535	97.432	-42.369	1.00	0.00	H
ATOM	4480	N	ASN	D	163	35.144	100.150	-42.633	1.00	0.00	N
ATOM	4481	H	ASN	D	163	35.063	99.589	-43.473	1.00	0.00	H
ATOM	4482	CA	ASN	D	163	34.934	101.597	-42.729	1.00	0.00	C
ATOM	4483	HA	ASN	D	163	35.567	102.107	-42.000	1.00	0.00	H
ATOM	4484	C	ASN	D	163	33.471	101.970	-42.401	1.00	0.00	C
ATOM	4485	O	ASN	D	163	33.225	102.853	-41.578	1.00	0.00	O
ATOM	4486	CB	ASN	D	163	35.336	102.073	-44.139	1.00	0.00	C
ATOM	4487	1HB	ASN	D	163	34.829	101.476	-44.897	1.00	0.00	H
ATOM	4488	2HB	ASN	D	163	35.022	103.109	-44.263	1.00	0.00	H
ATOM	4489	CG	ASN	D	163	36.837	102.026	-44.394	1.00	0.00	C

ATOM	4490	OD1	ASN	D	163	37.531	103.022	-44.258	1.00	0.00	O
ATOM	4491	ND2	ASN	D	163	37.358	100.889	-44.789	1.00	0.00	N
ATOM	4492	1HD2	ASN	D	163	38.349	100.804	-44.998	1.00	0.00	H
ATOM	4493	2HD2	ASN	D	163	36.812	100.039	-44.832	1.00	0.00	H
ATOM	4494	N	ALA	D	164	32.488	101.288	-43.005	1.00	0.00	N
ATOM	4495	H	ALA	D	164	32.739	100.560	-43.667	1.00	0.00	H
ATOM	4496	CA	ALA	D	164	31.062	101.606	-42.840	1.00	0.00	C
ATOM	4497	HA	ALA	D	164	30.918	102.648	-43.130	1.00	0.00	H
ATOM	4498	C	ALA	D	164	30.541	101.468	-41.391	1.00	0.00	C
ATOM	4499	O	ALA	D	164	29.635	102.203	-40.995	1.00	0.00	O
ATOM	4500	CB	ALA	D	164	30.241	100.740	-43.803	1.00	0.00	C
ATOM	4501	1HB	ALA	D	164	29.217	101.114	-43.845	1.00	0.00	H
ATOM	4502	2HB	ALA	D	164	30.219	99.709	-43.453	1.00	0.00	H
ATOM	4503	3HB	ALA	D	164	30.666	100.775	-44.807	1.00	0.00	H
ATOM	4504	N	LEU	D	165	31.122	100.574	-40.579	1.00	0.00	N
ATOM	4505	H	LEU	D	165	31.810	99.946	-40.983	1.00	0.00	H
ATOM	4506	CA	LEU	D	165	30.778	100.389	-39.162	1.00	0.00	C
ATOM	4507	HA	LEU	D	165	29.694	100.457	-39.090	1.00	0.00	H
ATOM	4508	C	LEU	D	165	31.339	101.479	-38.231	1.00	0.00	C
ATOM	4509	O	LEU	D	165	30.950	101.513	-37.065	1.00	0.00	O
ATOM	4510	CB	LEU	D	165	31.150	98.960	-38.703	1.00	0.00	C
ATOM	4511	1HB	LEU	D	165	30.594	98.737	-37.791	1.00	0.00	H
ATOM	4512	2HB	LEU	D	165	30.777	98.280	-39.468	1.00	0.00	H
ATOM	4513	CG	LEU	D	165	32.640	98.630	-38.455	1.00	0.00	C
ATOM	4514	HG	LEU	D	165	33.255	99.125	-39.203	1.00	0.00	H
ATOM	4515	CD1	LEU	D	165	33.140	99.011	-37.057	1.00	0.00	C
ATOM	4516	1HD1	LEU	D	165	33.097	100.085	-36.906	1.00	0.00	H
ATOM	4517	2HD1	LEU	D	165	34.179	98.702	-36.942	1.00	0.00	H
ATOM	4518	3HD1	LEU	D	165	32.532	98.525	-36.294	1.00	0.00	H
ATOM	4519	CD2	LEU	D	165	32.846	97.115	-38.561	1.00	0.00	C
ATOM	4520	1HD2	LEU	D	165	32.240	96.598	-37.816	1.00	0.00	H
ATOM	4521	2HD2	LEU	D	165	33.896	96.868	-38.407	1.00	0.00	H
ATOM	4522	3HD2	LEU	D	165	32.553	96.771	-39.552	1.00	0.00	H
ATOM	4523	N	LEU	D	166	32.219	102.359	-38.729	1.00	0.00	N
ATOM	4524	H	LEU	D	166	32.449	102.271	-39.712	1.00	0.00	H
ATOM	4525	CA	LEU	D	166	33.138	103.174	-37.916	1.00	0.00	C
ATOM	4526	HA	LEU	D	166	32.887	103.035	-36.864	1.00	0.00	H
ATOM	4527	C	LEU	D	166	33.056	104.692	-38.199	1.00	0.00	C
ATOM	4528	O	LEU	D	166	33.744	105.485	-37.560	1.00	0.00	O
ATOM	4529	CB	LEU	D	166	34.550	102.601	-38.181	1.00	0.00	C
ATOM	4530	1HB	LEU	D	166	34.503	101.517	-38.081	1.00	0.00	H
ATOM	4531	2HB	LEU	D	166	34.814	102.811	-39.219	1.00	0.00	H
ATOM	4532	CG	LEU	D	166	35.700	103.097	-37.285	1.00	0.00	C
ATOM	4533	HG	LEU	D	166	35.886	104.154	-37.465	1.00	0.00	H
ATOM	4534	CD1	LEU	D	166	35.424	102.883	-35.795	1.00	0.00	C
ATOM	4535	1HD1	LEU	D	166	34.593	103.515	-35.482	1.00	0.00	H
ATOM	4536	2HD1	LEU	D	166	36.301	103.159	-35.212	1.00	0.00	H
ATOM	4537	3HD1	LEU	D	166	35.175	101.839	-35.608	1.00	0.00	H
ATOM	4538	CD2	LEU	D	166	36.978	102.334	-37.642	1.00	0.00	C
ATOM	4539	1HD2	LEU	D	166	37.812	102.707	-37.050	1.00	0.00	H
ATOM	4540	2HD2	LEU	D	166	37.201	102.475	-38.701	1.00	0.00	H
ATOM	4541	3HD2	LEU	D	166	36.841	101.269	-37.454	1.00	0.00	H
ATOM	4542	N	LEU	D	167	32.221	105.111	-39.155	1.00	0.00	N
ATOM	4543	H	LEU	D	167	31.689	104.393	-39.627	1.00	0.00	H
ATOM	4544	CA	LEU	D	167	32.186	106.472	-39.722	1.00	0.00	C
ATOM	4545	HA	LEU	D	167	32.732	107.150	-39.067	1.00	0.00	H
ATOM	4546	C	LEU	D	167	30.744	107.024	-39.805	1.00	0.00	C
ATOM	4547	O	LEU	D	167	30.380	107.724	-40.748	1.00	0.00	O
ATOM	4548	CB	LEU	D	167	32.888	106.437	-41.100	1.00	0.00	C
ATOM	4549	1HB	LEU	D	167	32.339	105.744	-41.740	1.00	0.00	H
ATOM	4550	2HB	LEU	D	167	32.822	107.428	-41.551	1.00	0.00	H
ATOM	4551	CG	LEU	D	167	34.373	106.020	-41.094	1.00	0.00	C
ATOM	4552	HG	LEU	D	167	34.492	105.054	-40.608	1.00	0.00	H
ATOM	4553	CD1	LEU	D	167	34.874	105.890	-42.532	1.00	0.00	C
ATOM	4554	1HD1	LEU	D	167	35.908	105.547	-42.540	1.00	0.00	H
ATOM	4555	2HD1	LEU	D	167	34.798	106.845	-43.053	1.00	0.00	H
ATOM	4556	3HD1	LEU	D	167	34.266	105.156	-43.062	1.00	0.00	H
ATOM	4557	CD2	LEU	D	167	35.260	107.043	-40.379	1.00	0.00	C
ATOM	4558	1HD2	LEU	D	167	36.300	106.727	-40.445	1.00	0.00	H
ATOM	4559	2HD2	LEU	D	167	34.985	107.096	-39.327	1.00	0.00	H
ATOM	4560	3HD2	LEU	D	167	35.145	108.024	-40.839	1.00	0.00	H
ATOM	4561	N	ASN	D	168	29.892	106.634	-38.854	1.00	0.00	N
ATOM	4562	H	ASN	D	168	30.290	106.081	-38.103	1.00	0.00	H
ATOM	4563	CA	ASN	D	168	28.461	106.414	-39.098	1.00	0.00	C
ATOM	4564	HA	ASN	D	168	28.146	106.970	-39.983	1.00	0.00	H
ATOM	4565	C	ASN	D	168	27.504	106.822	-37.955	1.00	0.00	C
ATOM	4566	O	ASN	D	168	26.430	107.353	-38.214	1.00	0.00	O

ATOM	4567	CB	ASN	D	168	28.313	104.902	-39.387	1.00	0.00	C
ATOM	4568	1HB	ASN	D	168	27.264	104.680	-39.559	1.00	0.00	H
ATOM	4569	2HB	ASN	D	168	28.858	104.652	-40.297	1.00	0.00	H
ATOM	4570	CG	ASN	D	168	28.805	103.986	-38.267	1.00	0.00	C
ATOM	4571	OD1	ASN	D	168	29.482	104.384	-37.332	1.00	0.00	O
ATOM	4572	ND2	ASN	D	168	28.495	102.721	-38.322	1.00	0.00	N
ATOM	4573	1HD2	ASN	D	168	28.955	102.151	-37.624	1.00	0.00	H
ATOM	4574	2HD2	ASN	D	168	28.147	102.342	-39.190	1.00	0.00	H
ATOM	4575	N	GLU	D	169	27.849	106.557	-36.694	1.00	0.00	N
ATOM	4576	H	GLU	D	169	28.736	106.083	-36.563	1.00	0.00	H
ATOM	4577	CA	GLU	D	169	26.883	106.425	-35.590	1.00	0.00	C
ATOM	4578	HA	GLU	D	169	26.018	105.882	-35.974	1.00	0.00	H
ATOM	4579	C	GLU	D	169	26.313	107.738	-35.005	1.00	0.00	C
ATOM	4580	O	GLU	D	169	25.813	107.742	-33.879	1.00	0.00	O
ATOM	4581	CB	GLU	D	169	27.516	105.547	-34.495	1.00	0.00	C
ATOM	4582	1HB	GLU	D	169	26.742	105.287	-33.776	1.00	0.00	H
ATOM	4583	2HB	GLU	D	169	27.854	104.611	-34.942	1.00	0.00	H
ATOM	4584	CG	GLU	D	169	28.695	106.201	-33.751	1.00	0.00	C
ATOM	4585	1HG	GLU	D	169	29.581	106.187	-34.390	1.00	0.00	H
ATOM	4586	2HG	GLU	D	169	28.461	107.242	-33.522	1.00	0.00	H
ATOM	4587	CD	GLU	D	169	28.977	105.459	-32.442	1.00	0.00	C
ATOM	4588	OE1	GLU	D	169	29.188	104.230	-32.490	1.00	0.00	O
ATOM	4589	OE2	GLU	D	169	28.896	106.086	-31.358	1.00	0.00	O
ATOM	4590	N	THR	D	170	26.416	108.865	-35.711	1.00	0.00	N
ATOM	4591	H	THR	D	170	26.794	108.783	-36.646	1.00	0.00	H
ATOM	4592	CA	THR	D	170	26.263	110.205	-35.106	1.00	0.00	C
ATOM	4593	HA	THR	D	170	25.971	110.077	-34.068	1.00	0.00	H
ATOM	4594	C	THR	D	170	25.161	111.065	-35.736	1.00	0.00	C
ATOM	4595	O	THR	D	170	24.677	111.986	-35.075	1.00	0.00	O
ATOM	4596	CB	THR	D	170	27.622	110.925	-35.065	1.00	0.00	C
ATOM	4597	HB	THR	D	170	27.981	111.068	-36.085	1.00	0.00	H
ATOM	4598	OG1	THR	D	170	28.549	110.126	-34.369	1.00	0.00	O
ATOM	4599	HG1	THR	D	170	28.228	110.027	-33.451	1.00	0.00	H
ATOM	4600	CG2	THR	D	170	27.624	112.276	-34.348	1.00	0.00	C
ATOM	4601	1HG2	THR	D	170	27.080	113.010	-34.939	1.00	0.00	H
ATOM	4602	2HG2	THR	D	170	28.651	112.621	-34.225	1.00	0.00	H
ATOM	4603	3HG2	THR	D	170	27.158	112.181	-33.367	1.00	0.00	H
ATOM	4604	N	GLU	D	171	24.681	110.738	-36.941	1.00	0.00	N
ATOM	4605	H	GLU	D	171	25.069	109.940	-37.429	1.00	0.00	H
ATOM	4606	CA	GLU	D	171	23.483	111.343	-37.550	1.00	0.00	C
ATOM	4607	HA	GLU	D	171	22.797	111.615	-36.751	1.00	0.00	H
ATOM	4608	C	GLU	D	171	22.786	110.325	-38.467	1.00	0.00	C
ATOM	4609	O	GLU	D	171	23.453	109.587	-39.190	1.00	0.00	O
ATOM	4610	CB	GLU	D	171	23.858	112.628	-38.316	1.00	0.00	C
ATOM	4611	1HB	GLU	D	171	24.627	113.150	-37.745	1.00	0.00	H
ATOM	4612	2HB	GLU	D	171	24.290	112.375	-39.286	1.00	0.00	H
ATOM	4613	CG	GLU	D	171	22.695	113.621	-38.494	1.00	0.00	C
ATOM	4614	1HG	GLU	D	171	22.182	113.746	-37.538	1.00	0.00	H
ATOM	4615	2HG	GLU	D	171	23.122	114.594	-38.749	1.00	0.00	H
ATOM	4616	CD	GLU	D	171	21.692	113.236	-39.591	1.00	0.00	C
ATOM	4617	OE1	GLU	D	171	22.063	113.332	-40.779	1.00	0.00	O
ATOM	4618	OE2	GLU	D	171	20.536	112.894	-39.247	1.00	0.00	O
ATOM	4619	N	LEU	D	172	21.454	110.266	-38.412	1.00	0.00	N
ATOM	4620	H	LEU	D	172	20.975	110.974	-37.862	1.00	0.00	H
ATOM	4621	CA	LEU	D	172	20.615	109.415	-39.260	1.00	0.00	C
ATOM	4622	HA	LEU	D	172	21.025	109.422	-40.269	1.00	0.00	H
ATOM	4623	C	LEU	D	172	19.183	109.978	-39.290	1.00	0.00	C
ATOM	4624	O	LEU	D	172	18.603	110.204	-38.224	1.00	0.00	O
ATOM	4625	CB	LEU	D	172	20.620	107.974	-38.690	1.00	0.00	C
ATOM	4626	1HB	LEU	D	172	21.499	107.834	-38.059	1.00	0.00	H
ATOM	4627	2HB	LEU	D	172	19.752	107.848	-38.042	1.00	0.00	H
ATOM	4628	CG	LEU	D	172	20.622	106.830	-39.721	1.00	0.00	C
ATOM	4629	HG	LEU	D	172	20.479	105.899	-39.179	1.00	0.00	H
ATOM	4630	CD1	LEU	D	172	19.501	106.936	-40.751	1.00	0.00	C
ATOM	4631	1HD1	LEU	D	172	19.640	107.811	-41.379	1.00	0.00	H
ATOM	4632	2HD1	LEU	D	172	18.537	106.992	-40.247	1.00	0.00	H
ATOM	4633	3HD1	LEU	D	172	19.510	106.056	-41.392	1.00	0.00	H
ATOM	4634	CD2	LEU	D	172	21.967	106.725	-40.431	1.00	0.00	C
ATOM	4635	1HD2	LEU	D	172	21.959	105.885	-41.126	1.00	0.00	H
ATOM	4636	2HD2	LEU	D	172	22.757	106.568	-39.698	1.00	0.00	H
ATOM	4637	3HD2	LEU	D	172	22.181	107.645	-40.969	1.00	0.00	H
ATOM	4638	N	HIS	D	173	18.581	110.155	-40.474	1.00	0.00	N
ATOM	4639	H	HIS	D	173	19.120	109.984	-41.319	1.00	0.00	H
ATOM	4640	CA	HIS	D	173	17.169	110.551	-40.644	1.00	0.00	C
ATOM	4641	HA	HIS	D	173	17.009	110.703	-41.713	1.00	0.00	H
ATOM	4642	C	HIS	D	173	16.812	111.905	-39.963	1.00	0.00	C
ATOM	4643	O	HIS	D	173	15.651	112.187	-39.656	1.00	0.00	O

ATOM	4644	CB	HIS	D	173	16.296	109.337	-40.232	1.00	0.00	C
ATOM	4645	1HB	HIS	D	173	16.621	108.479	-40.822	1.00	0.00	H
ATOM	4646	2HB	HIS	D	173	16.484	109.100	-39.185	1.00	0.00	H
ATOM	4647	CG	HIS	D	173	14.801	109.452	-40.412	1.00	0.00	C
ATOM	4648	ND1	HIS	D	173	14.122	109.617	-41.594	1.00	0.00	N
ATOM	4649	HD1	HIS	D	173	14.538	109.539	-42.533	1.00	0.00	H
ATOM	4650	CD2	HIS	D	173	13.854	109.275	-39.443	1.00	0.00	C
ATOM	4651	HD2	HIS	D	173	14.056	109.062	-38.403	1.00	0.00	H
ATOM	4652	CE1	HIS	D	173	12.807	109.555	-41.345	1.00	0.00	C
ATOM	4653	HE1	HIS	D	173	12.039	109.539	-42.111	1.00	0.00	H
ATOM	4654	NE2	HIS	D	173	12.585	109.425	-40.023	1.00	0.00	N
ATOM	4655	N	GLY	D	174	17.788	112.775	-39.673	1.00	0.00	N
ATOM	4656	H	GLY	D	174	18.756	112.522	-39.882	1.00	0.00	H
ATOM	4657	CA	GLY	D	174	17.603	114.022	-38.913	1.00	0.00	C
ATOM	4658	1HA	GLY	D	174	18.432	114.686	-39.157	1.00	0.00	H
ATOM	4659	2HA	GLY	D	174	16.670	114.502	-39.207	1.00	0.00	H
ATOM	4660	C	GLY	D	174	17.601	113.828	-37.388	1.00	0.00	C
ATOM	4661	O	GLY	D	174	17.088	114.676	-36.652	1.00	0.00	O
ATOM	4662	N	ARG	D	175	18.112	112.686	-36.919	1.00	0.00	N
ATOM	4663	H	ARG	D	175	18.547	112.088	-37.621	1.00	0.00	H
ATOM	4664	CA	ARG	D	175	18.225	112.217	-35.527	1.00	0.00	C
ATOM	4665	HA	ARG	D	175	18.210	113.070	-34.850	1.00	0.00	H
ATOM	4666	C	ARG	D	175	19.602	111.531	-35.378	1.00	0.00	C
ATOM	4667	O	ARG	D	175	20.528	111.857	-36.110	1.00	0.00	O
ATOM	4668	CB	ARG	D	175	17.052	111.261	-35.187	1.00	0.00	C
ATOM	4669	1HB	ARG	D	175	17.089	110.394	-35.850	1.00	0.00	H
ATOM	4670	2HB	ARG	D	175	17.207	110.891	-34.173	1.00	0.00	H
ATOM	4671	CG	ARG	D	175	15.622	111.840	-35.198	1.00	0.00	C
ATOM	4672	1HG	ARG	D	175	15.010	111.159	-34.606	1.00	0.00	H
ATOM	4673	2HG	ARG	D	175	15.610	112.810	-34.702	1.00	0.00	H
ATOM	4674	CD	ARG	D	175	14.981	111.965	-36.591	1.00	0.00	C
ATOM	4675	1HD	ARG	D	175	15.153	112.967	-36.983	1.00	0.00	H
ATOM	4676	2HD	ARG	D	175	15.454	111.241	-37.258	1.00	0.00	H
ATOM	4677	NE	ARG	D	175	13.531	111.690	-36.556	1.00	0.00	N
ATOM	4678	HE	ARG	D	175	13.165	111.256	-35.707	1.00	0.00	H
ATOM	4679	CZ	ARG	D	175	12.738	111.596	-37.606	1.00	0.00	C
ATOM	4680	NH1	ARG	D	175	13.066	112.052	-38.777	1.00	0.00	N
ATOM	4681	1HH1	ARG	D	175	14.036	112.322	-38.915	1.00	0.00	H
ATOM	4682	2HH1	ARG	D	175	12.645	111.575	-39.560	1.00	0.00	H
ATOM	4683	NH2	ARG	D	175	11.603	110.970	-37.539	1.00	0.00	N
ATOM	4684	1HH2	ARG	D	175	11.399	110.411	-36.702	1.00	0.00	H
ATOM	4685	2HH2	ARG	D	175	11.232	110.617	-38.403	1.00	0.00	H
ATOM	4686	N	GLN	D	176	19.770	110.589	-34.449	1.00	0.00	N
ATOM	4687	H	GLN	D	176	18.981	110.342	-33.872	1.00	0.00	H
ATOM	4688	CA	GLN	D	176	20.816	109.560	-34.549	1.00	0.00	C
ATOM	4689	HA	GLN	D	176	21.006	109.378	-35.610	1.00	0.00	H
ATOM	4690	C	GLN	D	176	20.318	108.230	-33.968	1.00	0.00	C
ATOM	4691	O	GLN	D	176	19.296	108.190	-33.282	1.00	0.00	O
ATOM	4692	CB	GLN	D	176	22.158	110.007	-33.924	1.00	0.00	C
ATOM	4693	1HB	GLN	D	176	22.911	109.258	-34.173	1.00	0.00	H
ATOM	4694	2HB	GLN	D	176	22.459	110.941	-34.394	1.00	0.00	H
ATOM	4695	CG	GLN	D	176	22.166	110.211	-32.397	1.00	0.00	C
ATOM	4696	1HG	GLN	D	176	21.667	111.150	-32.163	1.00	0.00	H
ATOM	4697	2HG	GLN	D	176	21.616	109.401	-31.919	1.00	0.00	H
ATOM	4698	CD	GLN	D	176	23.577	110.233	-31.793	1.00	0.00	C
ATOM	4699	OE1	GLN	D	176	23.876	109.520	-30.847	1.00	0.00	O
ATOM	4700	NE2	GLN	D	176	24.492	111.047	-32.276	1.00	0.00	N
ATOM	4701	1HE2	GLN	D	176	25.422	110.965	-31.885	1.00	0.00	H
ATOM	4702	2HE2	GLN	D	176	24.330	111.567	-33.131	1.00	0.00	H
ATOM	4703	N	LEU	D	177	21.073	107.169	-34.237	1.00	0.00	N
ATOM	4704	H	LEU	D	177	21.933	107.324	-34.747	1.00	0.00	H
ATOM	4705	CA	LEU	D	177	20.896	105.796	-33.758	1.00	0.00	C
ATOM	4706	HA	LEU	D	177	20.437	105.809	-32.769	1.00	0.00	H
ATOM	4707	C	LEU	D	177	22.289	105.154	-33.609	1.00	0.00	C
ATOM	4708	O	LEU	D	177	23.283	105.790	-33.970	1.00	0.00	O
ATOM	4709	CB	LEU	D	177	19.949	105.033	-34.709	1.00	0.00	C
ATOM	4710	1HB	LEU	D	177	19.905	103.990	-34.399	1.00	0.00	H
ATOM	4711	2HB	LEU	D	177	18.951	105.447	-34.561	1.00	0.00	H
ATOM	4712	CG	LEU	D	177	20.245	105.081	-36.222	1.00	0.00	C
ATOM	4713	HG	LEU	D	177	20.220	106.115	-36.557	1.00	0.00	H
ATOM	4714	CD1	LEU	D	177	21.596	104.478	-36.606	1.00	0.00	C
ATOM	4715	1HD1	LEU	D	177	21.731	103.520	-36.103	1.00	0.00	H
ATOM	4716	2HD1	LEU	D	177	22.401	105.155	-36.328	1.00	0.00	H
ATOM	4717	3HD1	LEU	D	177	21.643	104.332	-37.684	1.00	0.00	H
ATOM	4718	CD2	LEU	D	177	19.145	104.322	-36.962	1.00	0.00	C
ATOM	4719	1HD2	LEU	D	177	19.135	103.282	-36.642	1.00	0.00	H
ATOM	4720	2HD2	LEU	D	177	19.313	104.352	-38.037	1.00	0.00	H

ATOM	4721	3HD2	LEU	D	177	18.178	104.774	-36.748	1.00	0.00	H
ATOM	4722	N	LYS	D	178	22.398	103.929	-33.083	1.00	0.00	N
ATOM	4723	H	LYS	D	178	21.549	103.398	-32.892	1.00	0.00	H
ATOM	4724	CA	LYS	D	178	23.704	103.285	-32.821	1.00	0.00	C
ATOM	4725	HA	LYS	D	178	24.487	103.870	-33.300	1.00	0.00	H
ATOM	4726	C	LYS	D	178	23.810	101.912	-33.497	1.00	0.00	C
ATOM	4727	O	LYS	D	178	22.824	101.361	-33.976	1.00	0.00	O
ATOM	4728	CB	LYS	D	178	23.997	103.265	-31.302	1.00	0.00	C
ATOM	4729	1HB	LYS	D	178	23.182	102.744	-30.796	1.00	0.00	H
ATOM	4730	2HB	LYS	D	178	24.910	102.696	-31.122	1.00	0.00	H
ATOM	4731	CG	LYS	D	178	24.171	104.658	-30.648	1.00	0.00	C
ATOM	4732	1HG	LYS	D	178	23.257	105.238	-30.778	1.00	0.00	H
ATOM	4733	2HG	LYS	D	178	24.323	104.514	-29.578	1.00	0.00	H
ATOM	4734	CD	LYS	D	178	25.360	105.459	-31.208	1.00	0.00	C
ATOM	4735	1HD	LYS	D	178	26.272	104.867	-31.109	1.00	0.00	H
ATOM	4736	2HD	LYS	D	178	25.176	105.650	-32.262	1.00	0.00	H
ATOM	4737	CE	LYS	D	178	25.567	106.819	-30.524	1.00	0.00	C
ATOM	4738	1HE	LYS	D	178	24.623	107.370	-30.552	1.00	0.00	H
ATOM	4739	2HE	LYS	D	178	25.851	106.656	-29.482	1.00	0.00	H
ATOM	4740	NZ	LYS	D	178	26.612	107.597	-31.234	1.00	0.00	N
ATOM	4741	1HZ	LYS	D	178	26.370	107.685	-32.217	1.00	0.00	H
ATOM	4742	2HZ	LYS	D	178	27.518	107.127	-31.198	1.00	0.00	H
ATOM	4743	3HZ	LYS	D	178	26.736	108.555	-30.919	1.00	0.00	H
ATOM	4744	N	VAL	D	179	25.040	101.405	-33.600	1.00	0.00	N
ATOM	4745	H	VAL	D	179	25.784	101.890	-33.126	1.00	0.00	H
ATOM	4746	CA	VAL	D	179	25.436	100.328	-34.532	1.00	0.00	C
ATOM	4747	HA	VAL	D	179	24.546	99.817	-34.895	1.00	0.00	H
ATOM	4748	C	VAL	D	179	26.312	99.296	-33.807	1.00	0.00	C
ATOM	4749	O	VAL	D	179	26.995	99.641	-32.839	1.00	0.00	O
ATOM	4750	CB	VAL	D	179	26.172	100.943	-35.752	1.00	0.00	C
ATOM	4751	HB	VAL	D	179	27.060	101.467	-35.393	1.00	0.00	H
ATOM	4752	CG1	VAL	D	179	26.626	99.911	-36.793	1.00	0.00	C
ATOM	4753	1HG1	VAL	D	179	25.772	99.344	-37.164	1.00	0.00	H
ATOM	4754	2HG1	VAL	D	179	27.360	99.227	-36.368	1.00	0.00	H
ATOM	4755	3HG1	VAL	D	179	27.096	100.415	-37.635	1.00	0.00	H
ATOM	4756	CG2	VAL	D	179	25.285	101.961	-36.489	1.00	0.00	C
ATOM	4757	1HG2	VAL	D	179	25.076	102.821	-35.855	1.00	0.00	H
ATOM	4758	2HG2	VAL	D	179	24.347	101.490	-36.783	1.00	0.00	H
ATOM	4759	3HG2	VAL	D	179	25.793	102.325	-37.383	1.00	0.00	H
ATOM	4760	N	SER	D	180	26.286	98.031	-34.230	1.00	0.00	N
ATOM	4761	H	SER	D	180	25.689	97.813	-35.029	1.00	0.00	H
ATOM	4762	CA	SER	D	180	27.099	96.911	-33.705	1.00	0.00	C
ATOM	4763	HA	SER	D	180	28.099	97.265	-33.451	1.00	0.00	H
ATOM	4764	C	SER	D	180	27.255	95.802	-34.757	1.00	0.00	C
ATOM	4765	O	SER	D	180	26.713	95.923	-35.848	1.00	0.00	O
ATOM	4766	CB	SER	D	180	26.442	96.339	-32.441	1.00	0.00	C
ATOM	4767	1HB	SER	D	180	25.385	96.144	-32.626	1.00	0.00	H
ATOM	4768	2HB	SER	D	180	26.925	95.406	-32.146	1.00	0.00	H
ATOM	4769	OG	SER	D	180	26.594	97.277	-31.397	1.00	0.00	O
ATOM	4770	HG	SER	D	180	26.545	98.158	-31.797	1.00	0.00	H
ATOM	4771	N	ALA	D	181	27.990	94.725	-34.470	1.00	0.00	N
ATOM	4772	H	ALA	D	181	28.409	94.643	-33.559	1.00	0.00	H
ATOM	4773	CA	ALA	D	181	27.976	93.522	-35.315	1.00	0.00	C
ATOM	4774	HA	ALA	D	181	28.210	93.803	-36.342	1.00	0.00	H
ATOM	4775	C	ALA	D	181	26.592	92.831	-35.324	1.00	0.00	C
ATOM	4776	O	ALA	D	181	25.764	93.094	-34.449	1.00	0.00	O
ATOM	4777	CB	ALA	D	181	29.074	92.573	-34.818	1.00	0.00	C
ATOM	4778	1HB	ALA	D	181	30.042	93.073	-34.845	1.00	0.00	H
ATOM	4779	2HB	ALA	D	181	29.118	91.693	-35.463	1.00	0.00	H
ATOM	4780	3HB	ALA	D	181	28.856	92.249	-33.799	1.00	0.00	H
ATOM	4781	N	LYS	D	182	26.377	91.923	-36.280	1.00	0.00	N
ATOM	4782	H	LYS	D	182	27.123	91.736	-36.946	1.00	0.00	H
ATOM	4783	CA	LYS	D	182	25.317	90.900	-36.286	1.00	0.00	C
ATOM	4784	HA	LYS	D	182	24.982	90.718	-35.266	1.00	0.00	H
ATOM	4785	C	LYS	D	182	25.934	89.585	-36.780	1.00	0.00	C
ATOM	4786	O	LYS	D	182	27.098	89.599	-37.241	1.00	0.00	O
ATOM	4787	OXT	LYS	D	182	25.249	88.546	-36.768	1.00	0.00	O
ATOM	4788	CB	LYS	D	182	24.113	91.367	-37.143	1.00	0.00	C
ATOM	4789	1HB	LYS	D	182	23.973	92.437	-37.007	1.00	0.00	H
ATOM	4790	2HB	LYS	D	182	24.336	91.189	-38.196	1.00	0.00	H
ATOM	4791	CG	LYS	D	182	22.787	90.667	-36.764	1.00	0.00	C
ATOM	4792	1HG	LYS	D	182	22.922	89.587	-36.804	1.00	0.00	H
ATOM	4793	2HG	LYS	D	182	22.528	90.934	-35.739	1.00	0.00	H
ATOM	4794	CD	LYS	D	182	21.615	91.046	-37.692	1.00	0.00	C
ATOM	4795	1HD	LYS	D	182	21.388	92.105	-37.569	1.00	0.00	H
ATOM	4796	2HD	LYS	D	182	21.910	90.860	-38.726	1.00	0.00	H
ATOM	4797	CE	LYS	D	182	20.363	90.212	-37.362	1.00	0.00	C



ATOM	4798	1HE	LYS	D	182	20.661	89.163	-37.307	1.00	0.00	H
ATOM	4799	2HE	LYS	D	182	19.989	90.496	-36.374	1.00	0.00	H
ATOM	4800	NZ	LYS	D	182	19.282	90.366	-38.372	1.00	0.00	N
ATOM	4801	1HZ	LYS	D	182	19.619	90.293	-39.326	1.00	0.00	H
ATOM	4802	2HZ	LYS	D	182	18.782	91.247	-38.245	1.00	0.00	H
ATOM	4803	3HZ	LYS	D	182	18.563	89.652	-38.284	1.00	0.00	H
TER	4804		LYS	D	182						
ATOM	4805	N	ASP	E	106	23.555	83.084	-61.186	1.00	0.00	N
ATOM	4806	1H	ASP	E	106	23.184	82.185	-60.916	1.00	0.00	H
ATOM	4807	2H	ASP	E	106	22.784	83.644	-61.532	1.00	0.00	H
ATOM	4808	3H	ASP	E	106	23.905	83.553	-60.355	1.00	0.00	H
ATOM	4809	CA	ASP	E	106	24.632	82.945	-62.196	1.00	0.00	C
ATOM	4810	HA	ASP	E	106	25.445	82.380	-61.743	1.00	0.00	H
ATOM	4811	C	ASP	E	106	25.258	84.268	-62.677	1.00	0.00	C
ATOM	4812	O	ASP	E	106	26.334	84.189	-63.264	1.00	0.00	O
ATOM	4813	CB	ASP	E	106	24.134	82.144	-63.410	1.00	0.00	C
ATOM	4814	1HB	ASP	E	106	24.909	82.100	-64.177	1.00	0.00	H
ATOM	4815	2HB	ASP	E	106	23.909	81.123	-63.102	1.00	0.00	H
ATOM	4816	CG	ASP	E	106	22.884	82.816	-63.963	1.00	0.00	C
ATOM	4817	OD1	ASP	E	106	21.801	82.462	-63.453	1.00	0.00	O
ATOM	4818	OD2	ASP	E	106	23.032	83.840	-64.654	1.00	0.00	O
ATOM	4819	N	SER	E	107	24.615	85.436	-62.492	1.00	0.00	N
ATOM	4820	H	SER	E	107	23.864	85.423	-61.801	1.00	0.00	H
ATOM	4821	CA	SER	E	107	24.938	86.810	-62.972	1.00	0.00	C
ATOM	4822	HA	SER	E	107	24.886	87.441	-62.084	1.00	0.00	H
ATOM	4823	C	SER	E	107	23.900	87.403	-63.944	1.00	0.00	C
ATOM	4824	O	SER	E	107	23.948	88.603	-64.239	1.00	0.00	O
ATOM	4825	CB	SER	E	107	26.348	87.016	-63.551	1.00	0.00	C
ATOM	4826	1HB	SER	E	107	26.516	88.083	-63.709	1.00	0.00	H
ATOM	4827	2HB	SER	E	107	27.091	86.657	-62.838	1.00	0.00	H
ATOM	4828	OG	SER	E	107	26.507	86.346	-64.783	1.00	0.00	O
ATOM	4829	HG	SER	E	107	26.493	85.398	-64.545	1.00	0.00	H
ATOM	4830	N	ARG	E	108	22.936	86.607	-64.427	1.00	0.00	N
ATOM	4831	H	ARG	E	108	23.044	85.598	-64.302	1.00	0.00	H
ATOM	4832	CA	ARG	E	108	21.721	87.057	-65.142	1.00	0.00	C
ATOM	4833	HA	ARG	E	108	21.812	88.107	-65.393	1.00	0.00	H
ATOM	4834	C	ARG	E	108	20.458	86.984	-64.284	1.00	0.00	C
ATOM	4835	O	ARG	E	108	19.388	87.407	-64.719	1.00	0.00	O
ATOM	4836	CB	ARG	E	108	21.531	86.244	-66.438	1.00	0.00	C
ATOM	4837	1HB	ARG	E	108	21.267	85.216	-66.180	1.00	0.00	H
ATOM	4838	2HB	ARG	E	108	20.687	86.664	-66.988	1.00	0.00	H
ATOM	4839	CG	ARG	E	108	22.750	86.205	-67.380	1.00	0.00	C
ATOM	4840	1HG	ARG	E	108	23.489	85.512	-66.975	1.00	0.00	H
ATOM	4841	2HG	ARG	E	108	22.422	85.813	-68.343	1.00	0.00	H
ATOM	4842	CD	ARG	E	108	23.436	87.561	-67.606	1.00	0.00	C
ATOM	4843	1HD	ARG	E	108	24.015	87.812	-66.718	1.00	0.00	H
ATOM	4844	2HD	ARG	E	108	24.135	87.461	-68.438	1.00	0.00	H
ATOM	4845	NE	ARG	E	108	22.462	88.623	-67.916	1.00	0.00	N
ATOM	4846	HE	ARG	E	108	21.831	88.446	-68.692	1.00	0.00	H
ATOM	4847	CZ	ARG	E	108	22.318	89.793	-67.330	1.00	0.00	C
ATOM	4848	NH1	ARG	E	108	23.111	90.242	-66.399	1.00	0.00	N
ATOM	4849	1HH1	ARG	E	108	23.700	89.576	-65.909	1.00	0.00	H
ATOM	4850	2HH1	ARG	E	108	22.886	91.110	-65.959	1.00	0.00	H
ATOM	4851	NH2	ARG	E	108	21.332	90.558	-67.665	1.00	0.00	N
ATOM	4852	1HH2	ARG	E	108	20.595	90.184	-68.260	1.00	0.00	H
ATOM	4853	2HH2	ARG	E	108	21.326	91.539	-67.440	1.00	0.00	H
ATOM	4854	N	SER	E	109	20.609	86.509	-63.053	1.00	0.00	N
ATOM	4855	H	SER	E	109	21.533	86.216	-62.781	1.00	0.00	H
ATOM	4856	CA	SER	E	109	19.557	86.189	-62.097	1.00	0.00	C
ATOM	4857	HA	SER	E	109	18.596	86.477	-62.515	1.00	0.00	H
ATOM	4858	C	SER	E	109	19.743	86.956	-60.781	1.00	0.00	C
ATOM	4859	O	SER	E	109	20.833	87.439	-60.462	1.00	0.00	O
ATOM	4860	CB	SER	E	109	19.541	84.668	-61.869	1.00	0.00	C
ATOM	4861	1HB	SER	E	109	18.962	84.430	-60.977	1.00	0.00	H
ATOM	4862	2HB	SER	E	109	19.069	84.189	-62.728	1.00	0.00	H
ATOM	4863	OG	SER	E	109	20.849	84.143	-61.733	1.00	0.00	O
ATOM	4864	HG	SER	E	109	20.969	83.465	-62.443	1.00	0.00	H
ATOM	4865	N	ILE	E	110	18.653	87.105	-60.026	1.00	0.00	N
ATOM	4866	H	ILE	E	110	17.774	86.746	-60.385	1.00	0.00	H
ATOM	4867	CA	ILE	E	110	18.610	87.843	-58.756	1.00	0.00	C
ATOM	4868	HA	ILE	E	110	19.617	87.867	-58.340	1.00	0.00	H
ATOM	4869	C	ILE	E	110	17.732	87.107	-57.735	1.00	0.00	C
ATOM	4870	O	ILE	E	110	16.648	86.635	-58.070	1.00	0.00	O
ATOM	4871	CB	ILE	E	110	18.157	89.313	-58.969	1.00	0.00	C
ATOM	4872	HB	ILE	E	110	18.128	89.795	-57.993	1.00	0.00	H
ATOM	4873	CG1	ILE	E	110	16.746	89.459	-59.577	1.00	0.00	C
ATOM	4874	1HG1	ILE	E	110	16.701	88.923	-60.524	1.00	0.00	H

ATOM	4875	2HG1	ILE	E	110	16.030	89.013	-58.889	1.00	0.00	H
ATOM	4876	CG2	ILE	E	110	19.196	90.066	-59.816	1.00	0.00	C
ATOM	4877	1HG2	ILE	E	110	19.039	91.134	-59.725	1.00	0.00	H
ATOM	4878	2HG2	ILE	E	110	19.116	89.771	-60.862	1.00	0.00	H
ATOM	4879	3HG2	ILE	E	110	20.201	89.844	-59.470	1.00	0.00	H
ATOM	4880	CD1	ILE	E	110	16.305	90.910	-59.824	1.00	0.00	C
ATOM	4881	1HD1	ILE	E	110	16.463	91.506	-58.926	1.00	0.00	H
ATOM	4882	2HD1	ILE	E	110	15.246	90.931	-60.080	1.00	0.00	H
ATOM	4883	3HD1	ILE	E	110	16.867	91.344	-60.651	1.00	0.00	H
ATOM	4884	N	TYR	E	111	18.224	87.000	-56.500	1.00	0.00	N
ATOM	4885	H	TYR	E	111	19.081	87.506	-56.312	1.00	0.00	H
ATOM	4886	CA	TYR	E	111	17.547	86.423	-55.335	1.00	0.00	C
ATOM	4887	HA	TYR	E	111	16.990	85.533	-55.635	1.00	0.00	H
ATOM	4888	C	TYR	E	111	16.572	87.428	-54.703	1.00	0.00	C
ATOM	4889	O	TYR	E	111	16.832	88.634	-54.678	1.00	0.00	O
ATOM	4890	CB	TYR	E	111	18.620	86.019	-54.309	1.00	0.00	C
ATOM	4891	1HB	TYR	E	111	19.289	85.290	-54.767	1.00	0.00	H
ATOM	4892	2HB	TYR	E	111	19.220	86.895	-54.057	1.00	0.00	H
ATOM	4893	CG	TYR	E	111	18.066	85.425	-53.025	1.00	0.00	C
ATOM	4894	CD1	TYR	E	111	17.757	86.258	-51.930	1.00	0.00	C
ATOM	4895	HD1	TYR	E	111	17.941	87.320	-51.990	1.00	0.00	H
ATOM	4896	CD2	TYR	E	111	17.845	84.039	-52.931	1.00	0.00	C
ATOM	4897	HD2	TYR	E	111	18.094	83.384	-53.755	1.00	0.00	H
ATOM	4898	CE1	TYR	E	111	17.200	85.706	-50.759	1.00	0.00	C
ATOM	4899	HE1	TYR	E	111	16.968	86.327	-49.911	1.00	0.00	H
ATOM	4900	CE2	TYR	E	111	17.308	83.482	-51.755	1.00	0.00	C
ATOM	4901	HE2	TYR	E	111	17.163	82.412	-51.693	1.00	0.00	H
ATOM	4902	CZ	TYR	E	111	16.968	84.317	-50.671	1.00	0.00	C
ATOM	4903	OH	TYR	E	111	16.412	83.797	-49.545	1.00	0.00	O
ATOM	4904	HH	TYR	E	111	16.396	82.834	-49.585	1.00	0.00	H
ATOM	4905	N	VAL	E	112	15.473	86.931	-54.133	1.00	0.00	N
ATOM	4906	H	VAL	E	112	15.338	85.922	-54.177	1.00	0.00	H
ATOM	4907	CA	VAL	E	112	14.343	87.717	-53.618	1.00	0.00	C
ATOM	4908	HA	VAL	E	112	14.648	88.753	-53.481	1.00	0.00	H
ATOM	4909	C	VAL	E	112	13.912	87.146	-52.261	1.00	0.00	C
ATOM	4910	O	VAL	E	112	13.435	86.017	-52.180	1.00	0.00	O
ATOM	4911	CB	VAL	E	112	13.179	87.682	-54.634	1.00	0.00	C
ATOM	4912	HB	VAL	E	112	12.785	86.669	-54.693	1.00	0.00	H
ATOM	4913	CG1	VAL	E	112	12.050	86.616	-54.197	1.00	0.00	C
ATOM	4914	1HG1	VAL	E	112	12.417	89.640	-54.140	1.00	0.00	H
ATOM	4915	2HG1	VAL	E	112	11.672	88.311	-53.224	1.00	0.00	H
ATOM	4916	3HG1	VAL	E	112	11.228	88.564	-54.913	1.00	0.00	H
ATOM	4917	CG2	VAL	E	112	13.595	88.109	-56.051	1.00	0.00	C
ATOM	4918	1HG2	VAL	E	112	14.006	89.118	-56.038	1.00	0.00	H
ATOM	4919	2HG2	VAL	E	112	12.733	88.072	-56.714	1.00	0.00	H
ATOM	4920	3HG2	VAL	E	112	14.340	87.423	-56.451	1.00	0.00	H
ATOM	4921	N	GLY	E	113	14.067	87.925	-51.186	1.00	0.00	N
ATOM	4922	H	GLY	E	113	14.349	88.888	-51.339	1.00	0.00	H
ATOM	4923	CA	GLY	E	113	13.936	87.473	-49.794	1.00	0.00	C
ATOM	4924	1HA	GLY	E	113	13.481	86.483	-49.763	1.00	0.00	H
ATOM	4925	2HA	GLY	E	113	14.932	87.387	-49.360	1.00	0.00	H
ATOM	4926	C	GLY	E	113	13.107	88.411	-48.908	1.00	0.00	C
ATOM	4927	O	GLY	E	113	12.607	89.440	-49.358	1.00	0.00	O
ATOM	4928	N	ASN	E	114	12.923	88.038	-47.634	1.00	0.00	N
ATOM	4929	H	ASN	E	114	13.427	87.225	-47.308	1.00	0.00	H
ATOM	4930	CA	ASN	E	114	11.963	88.665	-46.699	1.00	0.00	C
ATOM	4931	HA	ASN	E	114	11.982	88.069	-45.786	1.00	0.00	H
ATOM	4932	C	ASN	E	114	10.489	88.625	-47.202	1.00	0.00	C
ATOM	4933	O	ASN	E	114	9.649	89.392	-46.736	1.00	0.00	O
ATOM	4934	CB	ASN	E	114	12.482	90.076	-46.320	1.00	0.00	C
ATOM	4935	1HB	ASN	E	114	13.573	90.059	-46.293	1.00	0.00	H
ATOM	4936	2HB	ASN	E	114	12.181	90.793	-47.079	1.00	0.00	H
ATOM	4937	CG	ASN	E	114	12.025	90.581	-44.959	1.00	0.00	C
ATOM	4938	OD1	ASN	E	114	12.797	90.700	-44.031	1.00	0.00	O
ATOM	4939	ND2	ASN	E	114	10.773	90.920	-44.774	1.00	0.00	N
ATOM	4940	1HD2	ASN	E	114	10.510	91.076	-43.818	1.00	0.00	H
ATOM	4941	2HD2	ASN	E	114	10.098	90.654	-45.488	1.00	0.00	H
ATOM	4942	N	VAL	E	115	10.169	87.759	-48.172	1.00	0.00	N
ATOM	4943	H	VAL	E	115	10.893	87.155	-48.523	1.00	0.00	H
ATOM	4944	CA	VAL	E	115	8.855	87.693	-48.840	1.00	0.00	C
ATOM	4945	HA	VAL	E	115	8.559	88.713	-49.090	1.00	0.00	H
ATOM	4946	C	VAL	E	115	7.766	87.087	-47.938	1.00	0.00	C
ATOM	4947	O	VAL	E	115	8.011	86.147	-47.178	1.00	0.00	O
ATOM	4948	CB	VAL	E	115	8.950	86.891	-50.157	1.00	0.00	C
ATOM	4949	HB	VAL	E	115	9.115	85.846	-49.906	1.00	0.00	H
ATOM	4950	CG1	VAL	E	115	7.671	87.011	-50.999	1.00	0.00	C
ATOM	4951	1HG1	VAL	E	115	6.836	86.531	-50.489	1.00	0.00	H

ATOM	4952	2HG1	VAL	E	115	7.804	86.494	-51.950	1.00	0.00	H
ATOM	4953	3HG1	VAL	E	115	7.438	88.058	-51.192	1.00	0.00	H
ATOM	4954	CG2	VAL	E	115	10.113	87.360	-51.043	1.00	0.00	C
ATOM	4955	1HG2	VAL	E	115	10.094	86.817	-51.990	1.00	0.00	H
ATOM	4956	2HG2	VAL	E	115	11.068	87.148	-50.569	1.00	0.00	H
ATOM	4957	3HG2	VAL	E	115	10.031	88.429	-51.239	1.00	0.00	H
ATOM	4958	N	ASP	E	116	6.553	87.628	-48.064	1.00	0.00	N
ATOM	4959	H	ASP	E	116	6.464	88.386	-48.721	1.00	0.00	H
ATOM	4960	CA	ASP	E	116	5.314	87.194	-47.406	1.00	0.00	C
ATOM	4961	HA	ASP	E	116	5.454	87.289	-46.329	1.00	0.00	H
ATOM	4962	C	ASP	E	116	4.905	85.726	-47.697	1.00	0.00	C
ATOM	4963	O	ASP	E	116	5.339	85.113	-48.670	1.00	0.00	O
ATOM	4964	CB	ASP	E	116	4.220	88.185	-47.834	1.00	0.00	C
ATOM	4965	1HB	ASP	E	116	4.566	89.203	-47.645	1.00	0.00	H
ATOM	4966	2HB	ASP	E	116	4.046	88.085	-48.907	1.00	0.00	H
ATOM	4967	CG	ASP	E	116	2.905	87.973	-47.091	1.00	0.00	C
ATOM	4968	OD1	ASP	E	116	2.641	88.680	-46.098	1.00	0.00	O
ATOM	4969	OD2	ASP	E	116	2.101	87.128	-47.530	1.00	0.00	O
ATOM	4970	N	TYR	E	117	4.039	85.166	-46.846	1.00	0.00	N
ATOM	4971	H	TYR	E	117	3.570	85.778	-46.195	1.00	0.00	H
ATOM	4972	CA	TYR	E	117	3.568	83.776	-46.883	1.00	0.00	C
ATOM	4973	HA	TYR	E	117	4.409	83.147	-47.166	1.00	0.00	H
ATOM	4974	C	TYR	E	117	2.460	83.457	-47.905	1.00	0.00	C
ATOM	4975	O	TYR	E	117	2.092	82.289	-48.020	1.00	0.00	O
ATOM	4976	CB	TYR	E	117	3.105	83.389	-45.466	1.00	0.00	C
ATOM	4977	1HB	TYR	E	117	2.955	82.309	-45.433	1.00	0.00	H
ATOM	4978	2HB	TYR	E	117	3.897	83.621	-44.753	1.00	0.00	H
ATOM	4979	CG	TYR	E	117	1.824	84.074	-45.017	1.00	0.00	C
ATOM	4980	CD1	TYR	E	117	1.870	85.322	-44.364	1.00	0.00	C
ATOM	4981	HD1	TYR	E	117	2.819	85.799	-44.164	1.00	0.00	H
ATOM	4982	CD2	TYR	E	117	0.579	83.478	-45.300	1.00	0.00	C
ATOM	4983	HD2	TYR	E	117	0.544	82.532	-45.827	1.00	0.00	H
ATOM	4984	CE1	TYR	E	117	0.676	85.977	-44.007	1.00	0.00	C
ATOM	4985	HE1	TYR	E	117	0.704	86.951	-43.544	1.00	0.00	H
ATOM	4986	CE2	TYR	E	117	-0.618	84.131	-44.949	1.00	0.00	C
ATOM	4987	HE2	TYR	E	117	-1.566	83.679	-45.196	1.00	0.00	H
ATOM	4988	CZ	TYR	E	117	-0.570	85.386	-44.306	1.00	0.00	C
ATOM	4989	OH	TYR	E	117	-1.723	86.025	-43.977	1.00	0.00	O
ATOM	4990	HH	TYR	E	117	-2.484	85.559	-44.326	1.00	0.00	H
ATOM	4991	N	ALA	E	118	1.913	84.450	-48.613	1.00	0.00	N
ATOM	4992	H	ALA	E	118	2.164	85.404	-48.367	1.00	0.00	H
ATOM	4993	CA	ALA	E	118	0.812	84.271	-49.573	1.00	0.00	C
ATOM	4994	HA	ALA	E	118	0.655	83.205	-49.746	1.00	0.00	H
ATOM	4995	C	ALA	E	118	1.090	84.878	-50.967	1.00	0.00	C
ATOM	4996	O	ALA	E	118	0.204	84.887	-51.819	1.00	0.00	O
ATOM	4997	CB	ALA	E	118	-0.462	84.837	-48.931	1.00	0.00	C
ATOM	4998	1HB	ALA	E	118	-0.336	85.904	-48.750	1.00	0.00	H
ATOM	4999	2HB	ALA	E	118	-0.657	84.328	-47.987	1.00	0.00	H
ATOM	5000	3HB	ALA	E	118	-1.308	84.684	-49.601	1.00	0.00	H
ATOM	5001	N	CYS	E	119	2.314	85.366	-51.189	1.00	0.00	N
ATOM	5002	H	CYS	E	119	2.990	85.250	-50.453	1.00	0.00	H
ATOM	5003	CA	CYS	E	119	2.799	85.899	-52.463	1.00	0.00	C
ATOM	5004	HA	CYS	E	119	2.118	86.676	-52.818	1.00	0.00	H
ATOM	5005	C	CYS	E	119	2.904	84.808	-53.553	1.00	0.00	C
ATOM	5006	O	CYS	E	119	3.193	83.650	-53.240	1.00	0.00	O
ATOM	5007	CB	CYS	E	119	4.176	86.506	-52.154	1.00	0.00	C
ATOM	5008	1HB	CYS	E	119	4.106	87.136	-51.267	1.00	0.00	H
ATOM	5009	2HB	CYS	E	119	4.884	85.697	-51.963	1.00	0.00	H
ATOM	5010	SG	CYS	E	119	4.769	87.516	-53.532	1.00	0.00	S
ATOM	5011	HG	CYS	E	119	6.042	87.610	-53.137	1.00	0.00	H
ATOM	5012	N	THR	E	120	2.752	85.183	-54.827	1.00	0.00	N
ATOM	5013	H	THR	E	120	2.463	86.143	-55.003	1.00	0.00	H
ATOM	5014	CA	THR	E	120	2.754	84.264	-55.984	1.00	0.00	C
ATOM	5015	HA	THR	E	120	2.909	83.250	-55.623	1.00	0.00	H
ATOM	5016	C	THR	E	120	3.860	84.591	-57.003	1.00	0.00	C
ATOM	5017	O	THR	E	120	4.164	85.765	-57.234	1.00	0.00	O
ATOM	5018	CB	THR	E	120	1.396	84.286	-56.709	1.00	0.00	C
ATOM	5019	HB	THR	E	120	1.444	83.601	-57.556	1.00	0.00	H
ATOM	5020	OG1	THR	E	120	1.095	85.575	-57.193	1.00	0.00	O
ATOM	5021	HG1	THR	E	120	0.981	86.165	-56.417	1.00	0.00	H
ATOM	5022	CG2	THR	E	120	0.242	83.851	-55.806	1.00	0.00	C
ATOM	5023	1HG2	THR	E	120	0.450	82.863	-55.398	1.00	0.00	H
ATOM	5024	2HG2	THR	E	120	-0.674	83.807	-56.395	1.00	0.00	H
ATOM	5025	3HG2	THR	E	120	0.108	84.560	-54.988	1.00	0.00	H
ATOM	5026	N	PRO	E	121	4.480	83.591	-57.664	1.00	0.00	N
ATOM	5027	CA	PRO	E	121	5.483	83.850	-58.699	1.00	0.00	C
ATOM	5028	HA	PRO	E	121	6.279	84.464	-58.279	1.00	0.00	H

ATOM	5029	C	PRO	E	121	4.901	84.605	-59.910	1.00	0.00	C
ATOM	5030	O	PRO	E	121	5.609	85.384	-60.552	1.00	0.00	O
ATOM	5031	CB	PRO	E	121	6.067	82.481	-59.063	1.00	0.00	C
ATOM	5032	1HB	PRO	E	121	6.285	82.397	-60.126	1.00	0.00	H
ATOM	5033	2HB	PRO	E	121	6.970	82.308	-58.476	1.00	0.00	H
ATOM	5034	CG	PRO	E	121	5.000	81.474	-58.645	1.00	0.00	C
ATOM	5035	1HG	PRO	E	121	4.321	81.306	-59.478	1.00	0.00	H
ATOM	5036	2HG	PRO	E	121	5.439	80.527	-58.333	1.00	0.00	H
ATOM	5037	CD	PRO	E	121	4.261	82.160	-57.496	1.00	0.00	C
ATOM	5038	1HD	PRO	E	121	3.200	81.909	-57.535	1.00	0.00	H
ATOM	5039	2HD	PRO	E	121	4.684	81.842	-56.543	1.00	0.00	H
ATOM	5040	N	GLU	E	122	3.610	84.428	-60.195	1.00	0.00	N
ATOM	5041	H	GLU	E	122	3.100	83.704	-59.687	1.00	0.00	H
ATOM	5042	CA	GLU	E	122	2.852	85.156	-61.216	1.00	0.00	C
ATOM	5043	HA	GLU	E	122	3.341	85.038	-62.184	1.00	0.00	H
ATOM	5044	C	GLU	E	122	2.768	86.669	-60.937	1.00	0.00	C
ATOM	5045	O	GLU	E	122	2.951	87.469	-61.856	1.00	0.00	O
ATOM	5046	CB	GLU	E	122	1.435	84.563	-61.328	1.00	0.00	C
ATOM	5047	1HB	GLU	E	122	0.952	84.573	-60.349	1.00	0.00	H
ATOM	5048	2HB	GLU	E	122	0.853	85.210	-61.985	1.00	0.00	H
ATOM	5049	CG	GLU	E	122	1.383	83.142	-61.924	1.00	0.00	C
ATOM	5050	1HG	GLU	E	122	0.336	82.902	-62.117	1.00	0.00	H
ATOM	5051	2HG	GLU	E	122	1.903	83.156	-62.885	1.00	0.00	H
ATOM	5052	CD	GLU	E	122	1.978	82.036	-61.035	1.00	0.00	C
ATOM	5053	OE1	GLU	E	122	2.478	81.024	-61.587	1.00	0.00	O
ATOM	5054	OE2	GLU	E	122	1.980	82.191	-59.794	1.00	0.00	O
ATOM	5055	N	GLU	E	123	2.551	87.103	-59.687	1.00	0.00	N
ATOM	5056	H	GLU	E	123	2.371	86.433	-58.945	1.00	0.00	H
ATOM	5057	CA	GLU	E	123	2.544	88.541	-59.376	1.00	0.00	C
ATOM	5058	HA	GLU	E	123	2.101	89.051	-60.230	1.00	0.00	H
ATOM	5059	C	GLU	E	123	3.962	89.117	-59.210	1.00	0.00	C
ATOM	5060	O	GLU	E	123	4.201	90.262	-59.606	1.00	0.00	O
ATOM	5061	CB	GLU	E	123	1.614	88.865	-58.195	1.00	0.00	C
ATOM	5062	1HB	GLU	E	123	1.271	89.895	-58.304	1.00	0.00	H
ATOM	5063	2HB	GLU	E	123	0.735	88.222	-58.262	1.00	0.00	H
ATOM	5064	CG	GLU	E	123	2.248	88.730	-56.808	1.00	0.00	C
ATOM	5065	1HG	GLU	E	123	2.912	87.869	-56.791	1.00	0.00	H
ATOM	5066	2HG	GLU	E	123	2.845	89.619	-56.594	1.00	0.00	H
ATOM	5067	CD	GLU	E	123	1.173	88.546	-55.740	1.00	0.00	C
ATOM	5068	OE1	GLU	E	123	1.035	87.406	-55.241	1.00	0.00	O
ATOM	5069	OE2	GLU	E	123	0.492	89.534	-55.383	1.00	0.00	O
ATOM	5070	N	VAL	E	124	4.918	88.327	-58.698	1.00	0.00	N
ATOM	5071	H	VAL	E	124	4.635	87.406	-58.369	1.00	0.00	H
ATOM	5072	CA	VAL	E	124	6.336	88.716	-58.558	1.00	0.00	C
ATOM	5073	HA	VAL	E	124	6.394	89.592	-57.917	1.00	0.00	H
ATOM	5074	C	VAL	E	124	6.947	89.125	-59.897	1.00	0.00	C
ATOM	5075	O	VAL	E	124	7.545	90.200	-59.988	1.00	0.00	O
ATOM	5076	CB	VAL	E	124	7.158	87.583	-57.900	1.00	0.00	C
ATOM	5077	HB	VAL	E	124	6.918	86.641	-58.391	1.00	0.00	H
ATOM	5078	CG1	VAL	E	124	8.677	87.788	-57.983	1.00	0.00	C
ATOM	5079	1HG1	VAL	E	124	9.189	87.003	-57.426	1.00	0.00	H
ATOM	5080	2HG1	VAL	E	124	8.937	88.760	-57.566	1.00	0.00	H
ATOM	5081	3HG1	VAL	E	124	9.012	87.735	-59.019	1.00	0.00	H
ATOM	5082	CG2	VAL	E	124	6.829	87.467	-56.409	1.00	0.00	C
ATOM	5083	1HG2	VAL	E	124	7.271	86.557	-56.002	1.00	0.00	H
ATOM	5084	2HG2	VAL	E	124	5.751	87.418	-56.266	1.00	0.00	H
ATOM	5085	3HG2	VAL	E	124	7.212	88.330	-55.867	1.00	0.00	H
ATOM	5086	N	GLN	E	125	6.784	88.305	-60.943	1.00	0.00	N
ATOM	5087	H	GLN	E	125	6.275	87.434	-60.814	1.00	0.00	H
ATOM	5088	CA	GLN	E	125	7.366	88.606	-62.254	1.00	0.00	C
ATOM	5089	HA	GLN	E	125	8.437	88.748	-62.102	1.00	0.00	H
ATOM	5090	C	GLN	E	125	6.846	89.937	-62.825	1.00	0.00	C
ATOM	5091	O	GLN	E	125	7.654	90.791	-63.187	1.00	0.00	O
ATOM	5092	CB	GLN	E	125	7.226	87.408	-63.216	1.00	0.00	C
ATOM	5093	1HB	GLN	E	125	7.750	87.643	-64.144	1.00	0.00	H
ATOM	5094	2HB	GLN	E	125	7.731	86.554	-62.762	1.00	0.00	H
ATOM	5095	CG	GLN	E	125	5.787	86.993	-63.558	1.00	0.00	C
ATOM	5096	1HG	GLN	E	125	5.226	86.860	-62.639	1.00	0.00	H
ATOM	5097	2HG	GLN	E	125	5.306	87.769	-64.151	1.00	0.00	H
ATOM	5098	CD	GLN	E	125	5.745	85.686	-64.344	1.00	0.00	C
ATOM	5099	OE1	GLN	E	125	5.827	85.680	-65.560	1.00	0.00	O
ATOM	5100	NE2	GLN	E	125	5.635	84.561	-63.670	1.00	0.00	N
ATOM	5101	1HE2	GLN	E	125	5.647	83.678	-64.193	1.00	0.00	H
ATOM	5102	2HE2	GLN	E	125	5.589	84.576	-62.667	1.00	0.00	H
ATOM	5103	N	GLN	E	126	5.528	90.185	-62.821	1.00	0.00	N
ATOM	5104	H	GLN	E	126	4.901	89.463	-62.490	1.00	0.00	H
ATOM	5105	CA	GLN	E	126	4.959	91.434	-63.355	1.00	0.00	C

ATOM	5106	HA	GLN	E	126	5.480	91.638	-64.291	1.00	0.00	H
ATOM	5107	C	GLN	E	126	5.212	92.677	-62.475	1.00	0.00	C
ATOM	5108	O	GLN	E	126	5.326	93.784	-63.012	1.00	0.00	O
ATOM	5109	CB	GLN	E	126	3.481	91.240	-63.747	1.00	0.00	C
ATOM	5110	1HB	GLN	E	126	3.125	92.142	-64.247	1.00	0.00	H
ATOM	5111	2HB	GLN	E	126	3.447	90.436	-64.483	1.00	0.00	H
ATOM	5112	CG	GLN	E	126	2.503	90.870	-62.619	1.00	0.00	C
ATOM	5113	1HG	GLN	E	126	1.635	90.384	-63.064	1.00	0.00	H
ATOM	5114	2HG	GLN	E	126	2.971	90.149	-61.955	1.00	0.00	H
ATOM	5115	CD	GLN	E	126	1.992	92.069	-61.827	1.00	0.00	C
ATOM	5116	OE1	GLN	E	126	1.271	92.918	-62.322	1.00	0.00	O
ATOM	5117	NE2	GLN	E	126	2.331	92.186	-60.564	1.00	0.00	N
ATOM	5118	1HE2	GLN	E	126	1.958	92.971	-60.063	1.00	0.00	H
ATOM	5119	2HE2	GLN	E	126	2.948	91.503	-60.137	1.00	0.00	H
ATOM	5120	N	HIS	E	127	5.396	92.516	-61.155	1.00	0.00	N
ATOM	5121	H	HIS	E	127	5.284	91.591	-60.753	1.00	0.00	H
ATOM	5122	CA	HIS	E	127	5.838	93.607	-60.274	1.00	0.00	C
ATOM	5123	HA	HIS	E	127	5.127	94.432	-60.342	1.00	0.00	H
ATOM	5124	C	HIS	E	127	7.205	94.141	-60.728	1.00	0.00	C
ATOM	5125	O	HIS	E	127	7.358	95.341	-60.950	1.00	0.00	O
ATOM	5126	CB	HIS	E	127	5.914	93.138	-58.806	1.00	0.00	C
ATOM	5127	1HB	HIS	E	127	5.964	92.050	-58.763	1.00	0.00	H
ATOM	5128	2HB	HIS	E	127	6.847	93.506	-58.377	1.00	0.00	H
ATOM	5129	CG	HIS	E	127	4.801	93.616	-57.897	1.00	0.00	C
ATOM	5130	ND1	HIS	E	127	4.844	94.721	-57.068	1.00	0.00	N
ATOM	5131	HD1	HIS	E	127	5.625	95.350	-56.941	1.00	0.00	H
ATOM	5132	CD2	HIS	E	127	3.647	92.944	-57.591	1.00	0.00	C
ATOM	5133	HD2	HIS	E	127	3.343	91.989	-57.993	1.00	0.00	H
ATOM	5134	CE1	HIS	E	127	3.734	94.728	-56.310	1.00	0.00	C
ATOM	5135	HE1	HIS	E	127	3.508	95.460	-55.542	1.00	0.00	H
ATOM	5136	NE2	HIS	E	127	2.981	93.650	-56.583	1.00	0.00	N
ATOM	5137	N	PHE	E	128	8.196	93.261	-60.913	1.00	0.00	N
ATOM	5138	H	PHE	E	128	8.028	92.280	-60.712	1.00	0.00	H
ATOM	5139	CA	PHE	E	128	9.529	93.678	-61.358	1.00	0.00	C
ATOM	5140	HA	PHE	E	128	9.804	94.582	-60.815	1.00	0.00	H
ATOM	5141	C	PHE	E	128	9.569	94.072	-62.845	1.00	0.00	C
ATOM	5142	O	PHE	E	128	10.218	95.065	-63.181	1.00	0.00	O
ATOM	5143	CB	PHE	E	128	10.556	92.589	-61.017	1.00	0.00	C
ATOM	5144	1HB	PHE	E	128	10.281	91.682	-61.555	1.00	0.00	H
ATOM	5145	2HB	PHE	E	128	11.533	92.908	-61.384	1.00	0.00	H
ATOM	5146	CG	PHE	E	128	10.703	92.256	-59.535	1.00	0.00	C
ATOM	5147	CD1	PHE	E	128	10.696	93.265	-58.548	1.00	0.00	C
ATOM	5148	HD1	PHE	E	128	10.562	94.300	-58.824	1.00	0.00	H
ATOM	5149	CD2	PHE	E	128	10.871	90.915	-59.140	1.00	0.00	C
ATOM	5150	HD2	PHE	E	128	10.855	90.128	-59.880	1.00	0.00	H
ATOM	5151	CE1	PHE	E	128	10.852	92.937	-57.189	1.00	0.00	C
ATOM	5152	HE1	PHE	E	128	10.818	93.714	-56.436	1.00	0.00	H
ATOM	5153	CE2	PHE	E	128	11.050	90.589	-57.784	1.00	0.00	C
ATOM	5154	HE2	PHE	E	128	11.179	89.557	-57.495	1.00	0.00	H
ATOM	5155	CZ	PHE	E	128	11.040	91.598	-56.807	1.00	0.00	C
ATOM	5156	HZ	PHE	E	128	11.162	91.343	-55.764	1.00	0.00	H
ATOM	5157	N	GLN	E	129	8.817	93.386	-63.719	1.00	0.00	N
ATOM	5158	H	GLN	E	129	8.332	92.555	-63.391	1.00	0.00	H
ATOM	5159	CA	GLN	E	129	8.710	93.723	-65.149	1.00	0.00	C
ATOM	5160	HA	GLN	E	129	9.707	93.645	-65.576	1.00	0.00	H
ATOM	5161	C	GLN	E	129	8.222	95.161	-65.392	1.00	0.00	C
ATOM	5162	O	GLN	E	129	8.623	95.794	-66.367	1.00	0.00	O
ATOM	5163	CB	GLN	E	129	7.803	92.708	-65.871	1.00	0.00	C
ATOM	5164	1HB	GLN	E	129	7.947	91.718	-65.446	1.00	0.00	H
ATOM	5165	2HB	GLN	E	129	6.757	92.987	-65.733	1.00	0.00	H
ATOM	5166	CG	GLN	E	129	8.117	92.599	-67.370	1.00	0.00	C
ATOM	5167	1HG	GLN	E	129	7.938	93.558	-67.855	1.00	0.00	H
ATOM	5168	2HG	GLN	E	129	9.164	92.330	-67.505	1.00	0.00	H
ATOM	5169	CD	GLN	E	129	7.242	91.544	-68.037	1.00	0.00	C
ATOM	5170	OE1	GLN	E	129	6.127	91.814	-68.446	1.00	0.00	O
ATOM	5171	NE2	GLN	E	129	7.691	90.314	-68.165	1.00	0.00	N
ATOM	5172	1HE2	GLN	E	129	7.053	89.646	-68.559	1.00	0.00	H
ATOM	5173	2HE2	GLN	E	129	8.616	90.033	-67.854	1.00	0.00	H
ATOM	5174	N	SER	E	130	7.416	95.702	-64.470	1.00	0.00	N
ATOM	5175	H	SER	E	130	7.107	95.107	-63.711	1.00	0.00	H
ATOM	5176	CA	SER	E	130	6.950	97.097	-64.475	1.00	0.00	C
ATOM	5177	HA	SER	E	130	6.490	97.298	-65.443	1.00	0.00	H
ATOM	5178	C	SER	E	130	8.060	98.148	-64.280	1.00	0.00	C
ATOM	5179	O	SER	E	130	7.824	99.327	-64.545	1.00	0.00	O
ATOM	5180	CB	SER	E	130	5.875	97.290	-63.400	1.00	0.00	C
ATOM	5181	1HB	SER	E	130	6.288	97.073	-62.415	1.00	0.00	H
ATOM	5182	2HB	SER	E	130	5.544	98.329	-63.414	1.00	0.00	H

ATOM	5183	OG	SER	E	130	4.755	96.459	-63.649	1.00	0.00	O
ATOM	5184	HG	SER	E	130	4.969	95.537	-63.415	1.00	0.00	H
ATOM	5185	N	CYS	E	131	9.265	97.743	-63.859	1.00	0.00	N
ATOM	5186	H	CYS	E	131	9.375	96.760	-63.640	1.00	0.00	H
ATOM	5187	CA	CYS	E	131	10.414	98.627	-63.611	1.00	0.00	C
ATOM	5188	HA	CYS	E	131	10.162	99.648	-63.901	1.00	0.00	H
ATOM	5189	C	CYS	E	131	11.673	98.246	-64.414	1.00	0.00	C
ATOM	5190	O	CYS	E	131	12.497	99.113	-64.703	1.00	0.00	O
ATOM	5191	CB	CYS	E	131	10.733	98.622	-62.111	1.00	0.00	C
ATOM	5192	1HB	CYS	E	131	10.859	97.596	-61.761	1.00	0.00	H
ATOM	5193	2HB	CYS	E	131	11.665	99.163	-61.950	1.00	0.00	H
ATOM	5194	SG	CYS	E	131	9.427	99.440	-61.153	1.00	0.00	S
ATOM	5195	HG	CYS	E	131	10.069	99.340	-59.975	1.00	0.00	H
ATOM	5196	N	GLY	E	132	11.822	96.982	-64.816	1.00	0.00	N
ATOM	5197	H	GLY	E	132	11.157	96.286	-64.488	1.00	0.00	H
ATOM	5198	CA	GLY	E	132	12.861	96.521	-65.738	1.00	0.00	C
ATOM	5199	1HA	GLY	E	132	12.952	97.227	-66.563	1.00	0.00	H
ATOM	5200	2HA	GLY	E	132	13.817	96.460	-65.220	1.00	0.00	H
ATOM	5201	C	GLY	E	132	12.509	95.140	-66.285	1.00	0.00	C
ATOM	5202	O	GLY	E	132	12.036	94.289	-65.538	1.00	0.00	O
ATOM	5203	N	THR	E	133	12.693	94.919	-67.592	1.00	0.00	N
ATOM	5204	H	THR	E	133	13.106	95.640	-68.159	1.00	0.00	H
ATOM	5205	CA	THR	E	133	12.247	93.668	-68.230	1.00	0.00	C
ATOM	5206	HA	THR	E	133	11.179	93.589	-68.029	1.00	0.00	H
ATOM	5207	C	THR	E	133	12.905	92.434	-67.604	1.00	0.00	C
ATOM	5208	O	THR	E	133	14.112	92.398	-67.370	1.00	0.00	O
ATOM	5209	CB	THR	E	133	12.377	93.704	-69.761	1.00	0.00	C
ATOM	5210	HB	THR	E	133	11.809	94.564	-70.121	1.00	0.00	H
ATOM	5211	OG1	THR	E	133	11.811	92.545	-70.316	1.00	0.00	O
ATOM	5212	HG1	THR	E	133	12.497	91.869	-70.361	1.00	0.00	H
ATOM	5213	CG2	THR	E	133	13.791	93.804	-70.318	1.00	0.00	C
ATOM	5214	1HG2	THR	E	133	13.745	93.963	-71.395	1.00	0.00	H
ATOM	5215	2HG2	THR	E	133	14.328	92.877	-70.124	1.00	0.00	H
ATOM	5216	3HG2	THR	E	133	14.317	94.640	-69.859	1.00	0.00	H
ATOM	5217	N	VAL	E	134	12.075	91.430	-67.331	1.00	0.00	N
ATOM	5218	H	VAL	E	134	11.115	91.526	-67.629	1.00	0.00	H
ATOM	5219	CA	VAL	E	134	12.374	90.194	-66.598	1.00	0.00	C
ATOM	5220	HA	VAL	E	134	13.421	89.935	-66.723	1.00	0.00	H
ATOM	5221	C	VAL	E	134	11.508	89.089	-67.212	1.00	0.00	C
ATOM	5222	O	VAL	E	134	10.394	89.385	-67.656	1.00	0.00	O
ATOM	5223	CB	VAL	E	134	12.110	90.412	-65.092	1.00	0.00	C
ATOM	5224	HB	VAL	E	134	12.586	91.350	-64.802	1.00	0.00	H
ATOM	5225	CG1	VAL	E	134	10.625	90.525	-64.739	1.00	0.00	C
ATOM	5226	1HG1	VAL	E	134	10.173	91.291	-65.358	1.00	0.00	H
ATOM	5227	2HG1	VAL	E	134	10.513	90.808	-63.695	1.00	0.00	H
ATOM	5228	3HG1	VAL	E	134	10.111	89.577	-64.903	1.00	0.00	H
ATOM	5229	CG2	VAL	E	134	12.726	89.325	-64.218	1.00	0.00	C
ATOM	5230	1HG2	VAL	E	134	13.808	89.330	-64.339	1.00	0.00	H
ATOM	5231	2HG2	VAL	E	134	12.328	88.345	-64.486	1.00	0.00	H
ATOM	5232	3HG2	VAL	E	134	12.497	89.535	-63.176	1.00	0.00	H
ATOM	5233	N	ASN	E	135	12.018	87.858	-67.313	1.00	0.00	N
ATOM	5234	H	ASN	E	135	12.929	87.668	-66.900	1.00	0.00	H
ATOM	5235	CA	ASN	E	135	11.385	86.803	-68.115	1.00	0.00	C
ATOM	5236	HA	ASN	E	135	10.525	87.214	-68.649	1.00	0.00	H
ATOM	5237	C	ASN	E	135	10.810	85.671	-67.260	1.00	0.00	C
ATOM	5238	O	ASN	E	135	9.619	85.413	-67.387	1.00	0.00	O
ATOM	5239	CB	ASN	E	135	12.363	86.295	-69.189	1.00	0.00	C
ATOM	5240	1HB	ASN	E	135	12.425	87.021	-69.997	1.00	0.00	H
ATOM	5241	2HB	ASN	E	135	13.359	86.183	-68.767	1.00	0.00	H
ATOM	5242	CG	ASN	E	135	11.905	84.965	-69.774	1.00	0.00	C
ATOM	5243	OD1	ASN	E	135	10.868	84.866	-70.412	1.00	0.00	O
ATOM	5244	ND2	ASN	E	135	12.605	83.893	-69.506	1.00	0.00	N
ATOM	5245	1HD2	ASN	E	135	12.324	83.013	-69.908	1.00	0.00	H
ATOM	5246	2HD2	ASN	E	135	13.383	83.977	-68.837	1.00	0.00	H
ATOM	5247	N	ARG	E	136	11.602	85.011	-66.406	1.00	0.00	N
ATOM	5248	H	ARG	E	136	12.606	85.173	-66.449	1.00	0.00	H
ATOM	5249	CA	ARG	E	136	11.116	83.892	-65.578	1.00	0.00	C
ATOM	5250	HA	ARG	E	136	10.026	83.872	-65.650	1.00	0.00	H
ATOM	5251	C	ARG	E	136	11.410	84.065	-64.089	1.00	0.00	C
ATOM	5252	O	ARG	E	136	12.086	85.005	-63.665	1.00	0.00	O
ATOM	5253	CB	ARG	E	136	11.656	82.547	-66.112	1.00	0.00	C
ATOM	5254	1HB	ARG	E	136	12.061	82.660	-67.117	1.00	0.00	H
ATOM	5255	2HB	ARG	E	136	12.482	82.216	-65.479	1.00	0.00	H
ATOM	5256	CG	ARG	E	136	10.559	81.461	-66.123	1.00	0.00	C
ATOM	5257	1HG	ARG	E	136	11.010	80.512	-65.830	1.00	0.00	H
ATOM	5258	2HG	ARG	E	136	9.782	81.687	-65.392	1.00	0.00	H
ATOM	5259	CD	ARG	E	136	9.899	81.253	-67.491	1.00	0.00	C

ATOM	5260	1HD	ARG	E	136	10.592	80.692	-68.120	1.00	0.00	H
ATOM	5261	2HD	ARG	E	136	9.016	80.631	-67.354	1.00	0.00	H
ATOM	5262	NE	ARG	E	136	9.552	82.501	-68.204	1.00	0.00	N
ATOM	5263	HE	ARG	E	136	10.309	83.113	-68.450	1.00	0.00	H
ATOM	5264	CZ	ARG	E	136	8.381	82.824	-68.727	1.00	0.00	C
ATOM	5265	NH1	ARG	E	136	7.264	82.249	-68.398	1.00	0.00	N
ATOM	5266	1HH1	ARG	E	136	7.262	81.597	-67.610	1.00	0.00	H
ATOM	5267	2HH1	ARG	E	136	6.399	82.480	-68.839	1.00	0.00	H
ATOM	5268	NH2	ARG	E	136	8.316	83.764	-69.625	1.00	0.00	N
ATOM	5269	1HH2	ARG	E	136	9.165	84.247	-69.896	1.00	0.00	H
ATOM	5270	2HH2	ARG	E	136	7.426	84.024	-69.993	1.00	0.00	H
ATOM	5271	N	VAL	E	137	10.863	83.135	-63.311	1.00	0.00	N
ATOM	5272	H	VAL	E	137	10.361	82.386	-63.766	1.00	0.00	H
ATOM	5273	CA	VAL	E	137	10.804	83.121	-61.849	1.00	0.00	C
ATOM	5274	HA	VAL	E	137	11.694	83.604	-61.459	1.00	0.00	H
ATOM	5275	C	VAL	E	137	10.756	81.675	-61.346	1.00	0.00	C
ATOM	5276	O	VAL	E	137	10.114	80.839	-61.975	1.00	0.00	O
ATOM	5277	CB	VAL	E	137	9.548	83.906	-61.391	1.00	0.00	C
ATOM	5278	HB	VAL	E	137	9.650	84.928	-61.753	1.00	0.00	H
ATOM	5279	CG1	VAL	E	137	8.238	83.366	-61.979	1.00	0.00	C
ATOM	5280	1HG1	VAL	E	137	8.060	82.340	-61.662	1.00	0.00	H
ATOM	5281	2HG1	VAL	E	137	8.259	83.399	-63.069	1.00	0.00	H
ATOM	5282	3HG1	VAL	E	137	7.413	83.987	-61.645	1.00	0.00	H
ATOM	5283	CG2	VAL	E	137	9.383	83.979	-59.866	1.00	0.00	C
ATOM	5284	1HG2	VAL	E	137	8.567	84.659	-59.621	1.00	0.00	H
ATOM	5285	2HG2	VAL	E	137	10.295	84.354	-59.406	1.00	0.00	H
ATOM	5286	3HG2	VAL	E	137	9.156	82.995	-59.458	1.00	0.00	H
ATOM	5287	N	THR	E	138	11.339	81.412	-60.176	1.00	0.00	N
ATOM	5288	H	THR	E	138	11.876	82.156	-59.744	1.00	0.00	H
ATOM	5289	CA	THR	E	138	11.054	80.222	-59.346	1.00	0.00	C
ATOM	5290	HA	THR	E	138	10.122	79.764	-59.678	1.00	0.00	H
ATOM	5291	C	THR	E	138	10.875	80.684	-57.903	1.00	0.00	C
ATOM	5292	O	THR	E	138	11.538	81.625	-57.462	1.00	0.00	O
ATOM	5293	CB	THR	E	138	12.160	79.148	-59.441	1.00	0.00	C
ATOM	5294	HB	THR	E	138	13.129	79.631	-59.352	1.00	0.00	H
ATOM	5295	OG1	THR	E	138	12.079	78.494	-60.682	1.00	0.00	O
ATOM	5296	HG1	THR	E	138	12.276	77.550	-60.545	1.00	0.00	H
ATOM	5297	CG2	THR	E	138	12.095	78.043	-58.384	1.00	0.00	C
ATOM	5298	1HG2	THR	E	138	12.253	78.452	-57.387	1.00	0.00	H
ATOM	5299	2HG2	THR	E	138	12.893	77.321	-58.560	1.00	0.00	H
ATOM	5300	3HG2	THR	E	138	11.135	77.529	-58.426	1.00	0.00	H
ATOM	5301	N	ILE	E	139	9.998	80.011	-57.157	1.00	0.00	N
ATOM	5302	H	ILE	E	139	9.556	79.198	-57.563	1.00	0.00	H
ATOM	5303	CA	ILE	E	139	9.700	80.276	-55.745	1.00	0.00	C
ATOM	5304	HA	ILE	E	139	10.366	81.060	-55.385	1.00	0.00	H
ATOM	5305	C	ILE	E	139	9.989	79.016	-54.918	1.00	0.00	C
ATOM	5306	O	ILE	E	139	9.747	77.896	-55.370	1.00	0.00	O
ATOM	5307	CB	ILE	E	139	8.247	80.795	-55.603	1.00	0.00	C
ATOM	5308	HB	ILE	E	139	8.135	81.625	-56.303	1.00	0.00	H
ATOM	5309	CG1	ILE	E	139	7.985	81.356	-54.188	1.00	0.00	C
ATOM	5310	1HG1	ILE	E	139	7.996	80.546	-53.460	1.00	0.00	H
ATOM	5311	2HG1	ILE	E	139	8.788	82.046	-53.936	1.00	0.00	H
ATOM	5312	CG2	ILE	E	139	7.204	79.724	-55.980	1.00	0.00	C
ATOM	5313	1HG2	ILE	E	139	6.205	80.156	-56.000	1.00	0.00	H
ATOM	5314	2HG2	ILE	E	139	7.212	78.909	-55.256	1.00	0.00	H
ATOM	5315	3HG2	ILE	E	139	7.410	79.320	-56.971	1.00	0.00	H
ATOM	5316	CD1	ILE	E	139	6.662	82.123	-54.055	1.00	0.00	C
ATOM	5317	1HD1	ILE	E	139	6.606	82.906	-54.813	1.00	0.00	H
ATOM	5318	2HD1	ILE	E	139	6.609	82.584	-53.069	1.00	0.00	H
ATOM	5319	3HD1	ILE	E	139	5.814	81.448	-54.165	1.00	0.00	H
ATOM	5320	N	LEU	E	140	10.493	79.200	-53.699	1.00	0.00	N
ATOM	5321	H	LEU	E	140	10.688	80.153	-53.403	1.00	0.00	H
ATOM	5322	CA	LEU	E	140	10.912	78.132	-52.788	1.00	0.00	C
ATOM	5323	HA	LEU	E	140	10.581	77.183	-53.208	1.00	0.00	H
ATOM	5324	C	LEU	E	140	10.184	78.281	-51.443	1.00	0.00	C
ATOM	5325	O	LEU	E	140	10.780	78.320	-50.370	1.00	0.00	O
ATOM	5326	CB	LEU	E	140	12.454	78.099	-52.730	1.00	0.00	C
ATOM	5327	1HB	LEU	E	140	12.819	78.054	-53.758	1.00	0.00	H
ATOM	5328	2HB	LEU	E	140	12.811	79.033	-52.293	1.00	0.00	H
ATOM	5329	CG	LEU	E	140	13.084	76.921	-51.954	1.00	0.00	C
ATOM	5330	HG	LEU	E	140	12.979	77.089	-50.883	1.00	0.00	H
ATOM	5331	CD1	LEU	E	140	12.466	75.561	-52.296	1.00	0.00	C
ATOM	5332	1HD1	LEU	E	140	11.437	75.516	-51.948	1.00	0.00	H
ATOM	5333	2HD1	LEU	E	140	13.034	74.768	-51.809	1.00	0.00	H
ATOM	5334	3HD1	LEU	E	140	12.499	75.400	-53.375	1.00	0.00	H
ATOM	5335	CD2	LEU	E	140	14.575	76.836	-52.280	1.00	0.00	C
ATOM	5336	1HD2	LEU	E	140	14.715	76.554	-53.325	1.00	0.00	H

ATOM	5337	2HD2	LEU	E	140	15.051	76.084	-51.650	1.00	0.00	H
ATOM	5338	3HD2	LEU	E	140	15.052	77.798	-52.100	1.00	0.00	H
ATOM	5339	N	THR	E	141	8.853	78.401	-51.533	1.00	0.00	N
ATOM	5340	H	THR	E	141	8.453	78.403	-52.461	1.00	0.00	H
ATOM	5341	CA	THR	E	141	7.906	78.533	-50.414	1.00	0.00	C
ATOM	5342	HA	THR	E	141	7.917	79.571	-50.099	1.00	0.00	H
ATOM	5343	C	THR	E	141	8.298	77.650	-49.227	1.00	0.00	C
ATOM	5344	O	THR	E	141	8.478	76.443	-49.390	1.00	0.00	O
ATOM	5345	CB	THR	E	141	6.489	78.179	-50.890	1.00	0.00	C
ATOM	5346	HB	THR	E	141	6.462	77.121	-51.153	1.00	0.00	H
ATOM	5347	OG1	THR	E	141	6.170	78.927	-52.041	1.00	0.00	O
ATOM	5348	HG1	THR	E	141	5.768	79.754	-51.764	1.00	0.00	H
ATOM	5349	CG2	THR	E	141	5.395	78.458	-49.861	1.00	0.00	C
ATOM	5350	1HG2	THR	E	141	5.561	77.858	-48.967	1.00	0.00	H
ATOM	5351	2HG2	THR	E	141	4.426	78.190	-50.283	1.00	0.00	H
ATOM	5352	3HG2	THR	E	141	5.389	79.513	-49.591	1.00	0.00	H
ATOM	5353	N	ASP	E	142	8.443	78.254	-48.047	1.00	0.00	N
ATOM	5354	H	ASP	E	142	8.207	79.238	-48.022	1.00	0.00	H
ATOM	5355	CA	ASP	E	142	9.092	77.695	-46.847	1.00	0.00	C
ATOM	5356	HA	ASP	E	142	10.155	77.581	-47.072	1.00	0.00	H
ATOM	5357	C	ASP	E	142	8.586	76.304	-46.386	1.00	0.00	C
ATOM	5358	O	ASP	E	142	7.495	75.846	-46.736	1.00	0.00	O
ATOM	5359	CB	ASP	E	142	8.978	78.764	-45.746	1.00	0.00	C
ATOM	5360	1HB	ASP	E	142	9.604	79.610	-46.029	1.00	0.00	H
ATOM	5361	2HB	ASP	E	142	7.940	79.097	-45.703	1.00	0.00	H
ATOM	5362	CG	ASP	E	142	9.395	78.306	-44.349	1.00	0.00	C
ATOM	5363	OD1	ASP	E	142	10.485	77.711	-44.206	1.00	0.00	O
ATOM	5364	OD2	ASP	E	142	8.592	78.491	-43.408	1.00	0.00	O
ATOM	5365	N	LYS	E	143	9.394	75.610	-45.571	1.00	0.00	N
ATOM	5366	H	LYS	E	143	10.233	76.102	-45.259	1.00	0.00	H
ATOM	5367	CA	LYS	E	143	9.062	74.327	-44.924	1.00	0.00	C
ATOM	5368	HA	LYS	E	143	7.989	74.168	-45.036	1.00	0.00	H
ATOM	5369	C	LYS	E	143	9.307	74.297	-43.401	1.00	0.00	C
ATOM	5370	O	LYS	E	143	8.969	73.291	-42.779	1.00	0.00	O
ATOM	5371	CB	LYS	E	143	9.824	73.171	-45.616	1.00	0.00	C
ATOM	5372	1HB	LYS	E	143	10.293	73.504	-46.541	1.00	0.00	H
ATOM	5373	2HB	LYS	E	143	10.645	72.860	-44.966	1.00	0.00	H
ATOM	5374	CG	LYS	E	143	8.934	71.941	-45.891	1.00	0.00	C
ATOM	5375	1HG	LYS	E	143	9.510	71.049	-45.641	1.00	0.00	H
ATOM	5376	2HG	LYS	E	143	8.072	71.954	-45.222	1.00	0.00	H
ATOM	5377	CD	LYS	E	143	8.441	71.770	-47.342	1.00	0.00	C
ATOM	5378	1HD	LYS	E	143	9.278	71.469	-47.974	1.00	0.00	H
ATOM	5379	2HD	LYS	E	143	7.726	70.946	-47.345	1.00	0.00	H
ATOM	5380	CE	LYS	E	143	7.747	72.996	-47.954	1.00	0.00	C
ATOM	5381	1HE	LYS	E	143	7.002	72.656	-48.679	1.00	0.00	H
ATOM	5382	2HE	LYS	E	143	7.219	73.543	-47.166	1.00	0.00	H
ATOM	5383	NZ	LYS	E	143	8.706	73.896	-48.638	1.00	0.00	N
ATOM	5384	1HZ	LYS	E	143	8.249	74.767	-48.918	1.00	0.00	H
ATOM	5385	2HZ	LYS	E	143	9.114	73.490	-49.468	1.00	0.00	H
ATOM	5386	3HZ	LYS	E	143	9.437	74.202	-48.014	1.00	0.00	H
ATOM	5387	N	PHE	E	144	9.884	75.342	-42.798	1.00	0.00	N
ATOM	5388	H	PHE	E	144	10.095	76.170	-43.350	1.00	0.00	H
ATOM	5389	CA	PHE	E	144	10.273	75.357	-41.381	1.00	0.00	C
ATOM	5390	HA	PHE	E	144	9.560	74.767	-40.805	1.00	0.00	H
ATOM	5391	C	PHE	E	144	10.304	76.757	-40.738	1.00	0.00	C
ATOM	5392	O	PHE	E	144	9.705	76.942	-39.676	1.00	0.00	O
ATOM	5393	CB	PHE	E	144	11.659	74.698	-41.256	1.00	0.00	C
ATOM	5394	1HB	PHE	E	144	11.567	73.633	-41.471	1.00	0.00	H
ATOM	5395	2HB	PHE	E	144	12.321	75.126	-42.012	1.00	0.00	H
ATOM	5396	CG	PHE	E	144	12.311	74.865	-39.895	1.00	0.00	C
ATOM	5397	CD1	PHE	E	144	11.772	74.219	-38.766	1.00	0.00	C
ATOM	5398	HD1	PHE	E	144	10.905	73.584	-38.876	1.00	0.00	H
ATOM	5399	CD2	PHE	E	144	13.429	75.709	-39.748	1.00	0.00	C
ATOM	5400	HD2	PHE	E	144	13.844	76.219	-40.610	1.00	0.00	H
ATOM	5401	CE1	PHE	E	144	12.344	74.420	-37.496	1.00	0.00	C
ATOM	5402	HE1	PHE	E	144	11.922	73.931	-36.631	1.00	0.00	H
ATOM	5403	CE2	PHE	E	144	14.001	75.909	-38.479	1.00	0.00	C
ATOM	5404	HE2	PHE	E	144	14.856	76.564	-38.376	1.00	0.00	H
ATOM	5405	CZ	PHE	E	144	13.458	75.266	-37.353	1.00	0.00	C
ATOM	5406	HZ	PHE	E	144	13.896	75.431	-36.379	1.00	0.00	H
ATOM	5407	N	GLY	E	145	10.999	77.729	-41.335	1.00	0.00	N
ATOM	5408	H	GLY	E	145	11.371	77.553	-42.267	1.00	0.00	H
ATOM	5409	CA	GLY	E	145	11.375	78.976	-40.656	1.00	0.00	C
ATOM	5410	1HA	GLY	E	145	10.598	79.268	-39.950	1.00	0.00	H
ATOM	5411	2HA	GLY	E	145	12.291	78.794	-40.094	1.00	0.00	H
ATOM	5412	C	GLY	E	145	11.640	80.149	-41.597	1.00	0.00	C
ATOM	5413	O	GLY	E	145	11.141	81.242	-41.334	1.00	0.00	O



ATOM	5414	N	GLN	E	146	12.297	79.893	-42.725	1.00	0.00	N
ATOM	5415	H	GLN	E	146	12.596	78.933	-42.857	1.00	0.00	H
ATOM	5416	CA	GLN	E	146	12.703	80.824	-43.781	1.00	0.00	C
ATOM	5417	HA	GLN	E	146	13.536	81.415	-43.397	1.00	0.00	H
ATOM	5418	C	GLN	E	146	11.588	81.803	-44.235	1.00	0.00	C
ATOM	5419	O	GLN	E	146	10.396	81.499	-44.082	1.00	0.00	O
ATOM	5420	CB	GLN	E	146	13.219	79.980	-44.966	1.00	0.00	C
ATOM	5421	1HB	GLN	E	146	12.428	79.321	-45.326	1.00	0.00	H
ATOM	5422	2HB	GLN	E	146	13.467	80.651	-45.787	1.00	0.00	H
ATOM	5423	CG	GLN	E	146	14.481	79.148	-44.656	1.00	0.00	C
ATOM	5424	1HG	GLN	E	146	15.053	79.086	-45.580	1.00	0.00	H
ATOM	5425	2HG	GLN	E	146	15.106	79.664	-43.928	1.00	0.00	H
ATOM	5426	CD	GLN	E	146	14.216	77.717	-44.166	1.00	0.00	C
ATOM	5427	OE1	GLN	E	146	13.593	77.468	-43.138	1.00	0.00	O
ATOM	5428	NE2	GLN	E	146	14.684	76.715	-44.869	1.00	0.00	N
ATOM	5429	1HE2	GLN	E	146	14.653	75.803	-44.469	1.00	0.00	H
ATOM	5430	2HE2	GLN	E	146	15.296	76.910	-45.673	1.00	0.00	H
ATOM	5431	N	PRO	E	147	11.926	82.982	-44.807	1.00	0.00	N
ATOM	5432	CA	PRO	E	147	10.941	83.962	-45.276	1.00	0.00	C
ATOM	5433	HA	PRO	E	147	10.334	84.285	-44.429	1.00	0.00	H
ATOM	5434	C	PRO	E	147	10.022	83.348	-46.340	1.00	0.00	C
ATOM	5435	O	PRO	E	147	10.477	82.809	-47.345	1.00	0.00	O
ATOM	5436	CB	PRO	E	147	11.739	85.165	-45.783	1.00	0.00	C
ATOM	5437	1HB	PRO	E	147	11.294	85.602	-46.676	1.00	0.00	H
ATOM	5438	2HB	PRO	E	147	11.805	85.906	-44.985	1.00	0.00	H
ATOM	5439	CG	PRO	E	147	13.132	84.606	-46.063	1.00	0.00	C
ATOM	5440	1HG	PRO	E	147	13.167	84.183	-47.066	1.00	0.00	H
ATOM	5441	2HG	PRO	E	147	13.907	85.362	-45.939	1.00	0.00	H
ATOM	5442	CD	PRO	E	147	13.274	83.485	-45.040	1.00	0.00	C
ATOM	5443	1HD	PRO	E	147	13.951	82.721	-45.420	1.00	0.00	H
ATOM	5444	2HD	PRO	E	147	13.664	83.896	-44.113	1.00	0.00	H
ATOM	5445	N	LYS	E	148	8.714	83.356	-46.064	1.00	0.00	N
ATOM	5446	H	LYS	E	148	8.400	83.981	-45.340	1.00	0.00	H
ATOM	5447	CA	LYS	E	148	7.821	82.250	-46.446	1.00	0.00	C
ATOM	5448	HA	LYS	E	148	8.330	81.332	-46.169	1.00	0.00	H
ATOM	5449	C	LYS	E	148	7.575	82.074	-47.950	1.00	0.00	C
ATOM	5450	O	LYS	E	148	7.144	80.991	-48.334	1.00	0.00	O
ATOM	5451	CB	LYS	E	148	6.506	82.305	-45.649	1.00	0.00	C
ATOM	5452	1HB	LYS	E	148	6.147	83.334	-45.597	1.00	0.00	H
ATOM	5453	2HB	LYS	E	148	5.763	81.709	-46.181	1.00	0.00	H
ATOM	5454	CG	LYS	E	148	6.602	81.703	-44.235	1.00	0.00	C
ATOM	5455	1HG	LYS	E	148	5.589	81.518	-43.875	1.00	0.00	H
ATOM	5456	2HG	LYS	E	148	7.103	80.739	-44.305	1.00	0.00	H
ATOM	5457	CD	LYS	E	148	7.315	82.589	-43.201	1.00	0.00	C
ATOM	5458	1HD	LYS	E	148	8.275	82.930	-43.580	1.00	0.00	H
ATOM	5459	2HD	LYS	E	148	6.698	83.466	-43.004	1.00	0.00	H
ATOM	5460	CE	LYS	E	148	7.565	81.845	-41.885	1.00	0.00	C
ATOM	5461	1HE	LYS	E	148	7.938	82.567	-41.152	1.00	0.00	H
ATOM	5462	2HE	LYS	E	148	6.627	81.423	-41.518	1.00	0.00	H
ATOM	5463	NZ	LYS	E	148	8.575	80.779	-42.056	1.00	0.00	N
ATOM	5464	1HZ	LYS	E	148	9.412	81.137	-42.523	1.00	0.00	H
ATOM	5465	2HZ	LYS	E	148	8.271	79.994	-42.638	1.00	0.00	H
ATOM	5466	3HZ	LYS	E	148	8.902	80.397	-41.183	1.00	0.00	H
ATOM	5467	N	GLY	E	149	7.899	83.064	-48.780	1.00	0.00	N
ATOM	5468	H	GLY	E	149	8.215	83.927	-48.362	1.00	0.00	H
ATOM	5469	CA	GLY	E	149	7.778	83.007	-50.242	1.00	0.00	C
ATOM	5470	1HA	GLY	E	149	7.534	81.994	-50.560	1.00	0.00	H
ATOM	5471	2HA	GLY	E	149	6.965	83.664	-50.553	1.00	0.00	H
ATOM	5472	C	GLY	E	149	9.047	83.427	-50.992	1.00	0.00	C
ATOM	5473	O	GLY	E	149	8.932	84.060	-52.038	1.00	0.00	O
ATOM	5474	N	PHE	E	150	10.245	83.183	-50.439	1.00	0.00	N
ATOM	5475	H	PHE	E	150	10.297	82.679	-49.564	1.00	0.00	H
ATOM	5476	CA	PHE	E	150	11.502	83.559	-51.105	1.00	0.00	C
ATOM	5477	HA	PHE	E	150	11.436	84.631	-51.295	1.00	0.00	H
ATOM	5478	C	PHE	E	150	11.674	82.898	-52.488	1.00	0.00	C
ATOM	5479	O	PHE	E	150	11.131	81.823	-52.754	1.00	0.00	O
ATOM	5480	CB	PHE	E	150	12.707	83.361	-50.170	1.00	0.00	C
ATOM	5481	1HB	PHE	E	150	13.494	84.041	-50.495	1.00	0.00	H
ATOM	5482	2HB	PHE	E	150	12.425	83.682	-49.169	1.00	0.00	H
ATOM	5483	CG	PHE	E	150	13.328	81.977	-50.090	1.00	0.00	C
ATOM	5484	CD1	PHE	E	150	12.977	81.089	-49.055	1.00	0.00	C
ATOM	5485	HD1	PHE	E	150	12.203	81.349	-48.352	1.00	0.00	H
ATOM	5486	CD2	PHE	E	150	14.345	81.618	-50.997	1.00	0.00	C
ATOM	5487	HD2	PHE	E	150	14.628	82.291	-51.795	1.00	0.00	H
ATOM	5488	CE1	PHE	E	150	13.648	79.861	-48.919	1.00	0.00	C
ATOM	5489	HE1	PHE	E	150	13.384	79.177	-48.125	1.00	0.00	H
ATOM	5490	CE2	PHE	E	150	15.023	80.395	-50.854	1.00	0.00	C

ATOM	5491	HE2	PHE	E	150	15.811	80.132	-51.547	1.00	0.00	H
ATOM	5492	CZ	PHE	E	150	14.679	79.519	-49.809	1.00	0.00	C
ATOM	5493	HZ	PHE	E	150	15.205	78.581	-49.686	1.00	0.00	H
ATOM	5494	N	ALA	E	151	12.382	83.579	-53.391	1.00	0.00	N
ATOM	5495	H	ALA	E	151	12.875	84.412	-53.086	1.00	0.00	H
ATOM	5496	CA	ALA	E	151	12.324	83.330	-54.833	1.00	0.00	C
ATOM	5497	HA	ALA	E	151	12.233	82.259	-55.016	1.00	0.00	H
ATOM	5498	C	ALA	E	151	13.582	83.824	-55.577	1.00	0.00	C
ATOM	5499	O	ALA	E	151	14.466	84.450	-54.990	1.00	0.00	O
ATOM	5500	CB	ALA	E	151	11.063	84.047	-55.357	1.00	0.00	C
ATOM	5501	1HB	ALA	E	151	10.947	83.893	-56.430	1.00	0.00	H
ATOM	5502	2HB	ALA	E	151	11.130	85.116	-55.163	1.00	0.00	H
ATOM	5503	3HB	ALA	E	151	10.178	83.656	-54.857	1.00	0.00	H
ATOM	5504	N	TYR	E	152	13.621	83.621	-56.896	1.00	0.00	N
ATOM	5505	H	TYR	E	152	12.872	83.079	-57.318	1.00	0.00	H
ATOM	5506	CA	TYR	E	152	14.563	84.285	-57.805	1.00	0.00	C
ATOM	5507	HA	TYR	E	152	14.894	85.202	-57.322	1.00	0.00	H
ATOM	5508	C	TYR	E	152	13.870	84.683	-59.124	1.00	0.00	C
ATOM	5509	O	TYR	E	152	12.850	84.090	-59.473	1.00	0.00	O
ATOM	5510	CB	TYR	E	152	15.800	83.389	-58.042	1.00	0.00	C
ATOM	5511	1HB	TYR	E	152	16.690	84.016	-57.990	1.00	0.00	H
ATOM	5512	2HB	TYR	E	152	15.893	82.659	-57.236	1.00	0.00	H
ATOM	5513	CG	TYR	E	152	15.817	82.668	-59.379	1.00	0.00	C
ATOM	5514	CD1	TYR	E	152	16.376	83.306	-60.504	1.00	0.00	C
ATOM	5515	HD1	TYR	E	152	16.823	84.282	-60.397	1.00	0.00	H
ATOM	5516	CD2	TYR	E	152	15.223	81.400	-59.519	1.00	0.00	C
ATOM	5517	HD2	TYR	E	152	14.799	80.905	-58.657	1.00	0.00	H
ATOM	5518	CE1	TYR	E	152	16.308	82.702	-61.773	1.00	0.00	C
ATOM	5519	HE1	TYR	E	152	16.717	83.197	-62.636	1.00	0.00	H
ATOM	5520	CE2	TYR	E	152	15.167	80.785	-60.788	1.00	0.00	C
ATOM	5521	HE2	TYR	E	152	14.712	79.812	-60.916	1.00	0.00	H
ATOM	5522	CZ	TYR	E	152	15.694	81.440	-61.919	1.00	0.00	C
ATOM	5523	OH	TYR	E	152	15.617	80.860	-63.144	1.00	0.00	O
ATOM	5524	HH	TYR	E	152	16.000	81.403	-63.833	1.00	0.00	H
ATOM	5525	N	VAL	E	153	14.437	85.644	-59.868	1.00	0.00	N
ATOM	5526	H	VAL	E	153	15.277	86.079	-59.502	1.00	0.00	H
ATOM	5527	CA	VAL	E	153	14.027	86.010	-61.248	1.00	0.00	C
ATOM	5528	HA	VAL	E	153	13.518	85.153	-61.687	1.00	0.00	H
ATOM	5529	C	VAL	E	153	15.236	86.315	-62.157	1.00	0.00	C
ATOM	5530	O	VAL	E	153	16.345	86.482	-61.647	1.00	0.00	O
ATOM	5531	CB	VAL	E	153	13.038	87.198	-61.258	1.00	0.00	C
ATOM	5532	HB	VAL	E	153	12.728	87.357	-62.288	1.00	0.00	H
ATOM	5533	CG1	VAL	E	153	11.765	86.940	-60.449	1.00	0.00	C
ATOM	5534	1HG1	VAL	E	153	11.987	86.888	-59.383	1.00	0.00	H
ATOM	5535	2HG1	VAL	E	153	11.340	85.995	-60.769	1.00	0.00	H
ATOM	5536	3HG1	VAL	E	153	11.039	87.730	-60.634	1.00	0.00	H
ATOM	5537	CG2	VAL	E	153	13.646	88.504	-60.736	1.00	0.00	C
ATOM	5538	1HG2	VAL	E	153	13.960	88.380	-59.701	1.00	0.00	H
ATOM	5539	2HG2	VAL	E	153	12.909	89.304	-60.789	1.00	0.00	H
ATOM	5540	3HG2	VAL	E	153	14.497	88.787	-61.353	1.00	0.00	H
ATOM	5541	N	GLU	E	154	15.060	86.417	-63.485	1.00	0.00	N
ATOM	5542	H	GLU	E	154	14.135	86.243	-63.865	1.00	0.00	H
ATOM	5543	CA	GLU	E	154	16.162	86.672	-64.449	1.00	0.00	C
ATOM	5544	HA	GLU	E	154	16.935	87.239	-63.932	1.00	0.00	H
ATOM	5545	C	GLU	E	154	15.804	87.509	-65.696	1.00	0.00	C
ATOM	5546	O	GLU	E	154	14.634	87.641	-66.064	1.00	0.00	O
ATOM	5547	CB	GLU	E	154	16.805	85.336	-64.887	1.00	0.00	C
ATOM	5548	1HB	GLU	E	154	17.660	85.539	-65.531	1.00	0.00	H
ATOM	5549	2HB	GLU	E	154	17.207	84.864	-63.993	1.00	0.00	H
ATOM	5550	CG	GLU	E	154	15.891	84.311	-65.589	1.00	0.00	C
ATOM	5551	1HG	GLU	E	154	16.434	83.365	-65.643	1.00	0.00	H
ATOM	5552	2HG	GLU	E	154	15.012	84.134	-64.965	1.00	0.00	H
ATOM	5553	CD	GLU	E	154	15.453	84.694	-67.015	1.00	0.00	C
ATOM	5554	OE1	GLU	E	154	14.276	84.420	-67.348	1.00	0.00	O
ATOM	5555	OE2	GLU	E	154	16.272	85.246	-67.787	1.00	0.00	O
ATOM	5556	N	PHE	E	155	16.837	88.030	-66.380	1.00	0.00	N
ATOM	5557	H	PHE	E	155	17.767	87.879	-66.003	1.00	0.00	H
ATOM	5558	CA	PHE	E	155	16.753	88.376	-67.808	1.00	0.00	C
ATOM	5559	HA	PHE	E	155	16.050	87.679	-68.269	1.00	0.00	H
ATOM	5560	C	PHE	E	155	18.104	88.237	-68.528	1.00	0.00	C
ATOM	5561	O	PHE	E	155	19.115	88.811	-68.111	1.00	0.00	O
ATOM	5562	CB	PHE	E	155	16.217	89.798	-68.021	1.00	0.00	C
ATOM	5563	1HB	PHE	E	155	15.455	90.006	-67.274	1.00	0.00	H
ATOM	5564	2HB	PHE	E	155	17.017	90.522	-67.860	1.00	0.00	H
ATOM	5565	CG	PHE	E	155	15.607	89.998	-69.401	1.00	0.00	C
ATOM	5566	CD1	PHE	E	155	14.276	89.608	-69.633	1.00	0.00	C
ATOM	5567	HD1	PHE	E	155	13.718	89.141	-68.841	1.00	0.00	H

ATOM	5568	CD2	PHE	E	155	16.359	90.537	-70.462	1.00	0.00	C
ATOM	5569	HD2	PHE	E	155	17.394	90.801	-70.309	1.00	0.00	H
ATOM	5570	CE1	PHE	E	155	13.678	89.799	-70.890	1.00	0.00	C
ATOM	5571	HE1	PHE	E	155	12.655	89.485	-71.056	1.00	0.00	H
ATOM	5572	CE2	PHE	E	155	15.761	90.737	-71.722	1.00	0.00	C
ATOM	5573	HE2	PHE	E	155	16.329	91.170	-72.531	1.00	0.00	H
ATOM	5574	CZ	PHE	E	155	14.420	90.374	-71.934	1.00	0.00	C
ATOM	5575	HZ	PHE	E	155	13.965	90.515	-72.905	1.00	0.00	H
ATOM	5576	N	VAL	E	156	18.104	87.534	-69.664	1.00	0.00	N
ATOM	5577	H	VAL	E	156	17.258	87.014	-69.863	1.00	0.00	H
ATOM	5578	CA	VAL	E	156	19.299	87.230	-70.476	1.00	0.00	C
ATOM	5579	HA	VAL	E	156	19.943	86.589	-69.873	1.00	0.00	H
ATOM	5580	C	VAL	E	156	20.135	88.468	-70.846	1.00	0.00	C
ATOM	5581	O	VAL	E	156	21.313	88.516	-70.495	1.00	0.00	O
ATOM	5582	CB	VAL	E	156	18.911	86.428	-71.737	1.00	0.00	C
ATOM	5583	HB	VAL	E	156	18.266	87.044	-72.367	1.00	0.00	H
ATOM	5584	CG1	VAL	E	156	20.143	86.019	-72.556	1.00	0.00	C
ATOM	5585	1HG1	VAL	E	156	20.665	86.900	-72.929	1.00	0.00	H
ATOM	5586	2HG1	VAL	E	156	19.834	85.422	-73.415	1.00	0.00	H
ATOM	5587	3HG1	VAL	E	156	20.823	85.430	-71.939	1.00	0.00	H
ATOM	5588	CG2	VAL	E	156	18.151	85.142	-71.379	1.00	0.00	C
ATOM	5589	1HG2	VAL	E	156	18.752	84.522	-70.714	1.00	0.00	H
ATOM	5590	2HG2	VAL	E	156	17.923	84.578	-72.283	1.00	0.00	H
ATOM	5591	3HG2	VAL	E	156	17.207	85.372	-70.883	1.00	0.00	H
ATOM	5592	N	GLU	E	157	19.568	89.474	-71.522	1.00	0.00	N
ATOM	5593	H	GLU	E	157	18.588	89.410	-71.748	1.00	0.00	H
ATOM	5594	CA	GLU	E	157	20.322	90.669	-71.959	1.00	0.00	C
ATOM	5595	HA	GLU	E	157	21.248	90.316	-72.418	1.00	0.00	H
ATOM	5596	C	GLU	E	157	20.746	91.577	-70.789	1.00	0.00	C
ATOM	5597	O	GLU	E	157	20.009	91.750	-69.815	1.00	0.00	O
ATOM	5598	CB	GLU	E	157	19.541	91.469	-73.023	1.00	0.00	C
ATOM	5599	1HB	GLU	E	157	18.510	91.119	-73.049	1.00	0.00	H
ATOM	5600	2HB	GLU	E	157	19.519	92.528	-72.759	1.00	0.00	H
ATOM	5601	CG	GLU	E	157	20.136	91.323	-74.436	1.00	0.00	C
ATOM	5602	1HG	GLU	E	157	20.251	90.260	-74.662	1.00	0.00	H
ATOM	5603	2HG	GLU	E	157	19.411	91.733	-75.143	1.00	0.00	H
ATOM	5604	CD	GLU	E	157	21.485	92.043	-74.634	1.00	0.00	C
ATOM	5605	OE1	GLU	E	157	21.827	92.321	-75.802	1.00	0.00	O
ATOM	5606	OE2	GLU	E	157	22.177	92.306	-73.621	1.00	0.00	O
ATOM	5607	N	ILE	E	158	21.952	92.147	-70.885	1.00	0.00	N
ATOM	5608	H	ILE	E	158	22.384	92.112	-71.813	1.00	0.00	H
ATOM	5609	CA	ILE	E	158	22.776	92.617	-69.761	1.00	0.00	C
ATOM	5610	HA	ILE	E	158	22.970	91.766	-69.116	1.00	0.00	H
ATOM	5611	C	ILE	E	158	22.050	93.660	-68.900	1.00	0.00	C
ATOM	5612	O	ILE	E	158	21.829	93.426	-67.706	1.00	0.00	O
ATOM	5613	CB	ILE	E	158	24.166	93.095	-70.263	1.00	0.00	C
ATOM	5614	HB	ILE	E	158	24.033	93.707	-71.157	1.00	0.00	H
ATOM	5615	CG1	ILE	E	158	25.119	91.918	-70.594	1.00	0.00	C
ATOM	5616	1HG1	ILE	E	158	26.097	92.327	-70.850	1.00	0.00	H
ATOM	5617	2HG1	ILE	E	158	25.245	91.297	-69.705	1.00	0.00	H
ATOM	5618	CG2	ILE	E	158	24.903	93.949	-69.208	1.00	0.00	C
ATOM	5619	1HG2	ILE	E	158	24.377	94.887	-69.031	1.00	0.00	H
ATOM	5620	2HG2	ILE	E	158	25.902	94.203	-69.561	1.00	0.00	H
ATOM	5621	3HG2	ILE	E	158	24.985	93.399	-68.269	1.00	0.00	H
ATOM	5622	CD1	ILE	E	158	24.709	91.010	-71.760	1.00	0.00	C
ATOM	5623	1HD1	ILE	E	158	23.822	90.431	-71.504	1.00	0.00	H
ATOM	5624	2HD1	ILE	E	158	25.519	90.314	-71.973	1.00	0.00	H
ATOM	5625	3HD1	ILE	E	158	24.521	91.611	-72.649	1.00	0.00	H
ATOM	5626	N	ASP	E	159	21.671	94.795	-69.496	1.00	0.00	N
ATOM	5627	H	ASP	E	159	21.841	94.888	-70.486	1.00	0.00	H
ATOM	5628	CA	ASP	E	159	21.178	95.967	-68.757	1.00	0.00	C
ATOM	5629	HA	ASP	E	159	21.838	96.123	-67.903	1.00	0.00	H
ATOM	5630	C	ASP	E	159	19.750	95.795	-68.209	1.00	0.00	C
ATOM	5631	O	ASP	E	159	19.369	96.439	-67.233	1.00	0.00	O
ATOM	5632	CB	ASP	E	159	21.271	97.215	-69.650	1.00	0.00	C
ATOM	5633	1HB	ASP	E	159	22.253	97.240	-70.126	1.00	0.00	H
ATOM	5634	2HB	ASP	E	159	20.514	97.157	-70.434	1.00	0.00	H
ATOM	5635	CG	ASP	E	159	21.098	98.505	-68.839	1.00	0.00	C
ATOM	5636	OD1	ASP	E	159	20.200	99.305	-69.177	1.00	0.00	O
ATOM	5637	OD2	ASP	E	159	21.884	98.685	-67.881	1.00	0.00	O
ATOM	5638	N	ALA	E	160	18.962	94.882	-68.780	1.00	0.00	N
ATOM	5639	H	ALA	E	160	19.343	94.320	-69.529	1.00	0.00	H
ATOM	5640	CA	ALA	E	160	17.594	94.617	-68.342	1.00	0.00	C
ATOM	5641	HA	ALA	E	160	16.985	95.509	-68.499	1.00	0.00	H
ATOM	5642	C	ALA	E	160	17.523	94.259	-66.849	1.00	0.00	C
ATOM	5643	O	ALA	E	160	16.851	94.943	-66.072	1.00	0.00	O
ATOM	5644	CB	ALA	E	160	17.049	93.485	-69.203	1.00	0.00	C

ATOM	5645	1HB	ALA	E	160	16.078	93.184	-68.819	1.00	0.00	H
ATOM	5646	2HB	ALA	E	160	17.717	92.630	-69.138	1.00	0.00	H
ATOM	5647	3HB	ALA	E	160	16.958	93.804	-70.242	1.00	0.00	H
ATOM	5648	N	VAL	E	161	18.298	93.250	-66.427	1.00	0.00	N
ATOM	5649	H	VAL	E	161	18.810	92.717	-67.116	1.00	0.00	H
ATOM	5650	CA	VAL	E	161	18.385	92.880	-65.008	1.00	0.00	C
ATOM	5651	HA	VAL	E	161	17.360	92.833	-64.647	1.00	0.00	H
ATOM	5652	C	VAL	E	161	19.092	93.955	-64.171	1.00	0.00	C
ATOM	5653	O	VAL	E	161	18.768	94.107	-63.001	1.00	0.00	O
ATOM	5654	CB	VAL	E	161	18.988	91.472	-64.810	1.00	0.00	C
ATOM	5655	HB	VAL	E	161	18.758	90.872	-65.691	1.00	0.00	H
ATOM	5656	CG1	VAL	E	161	20.510	91.468	-64.617	1.00	0.00	C
ATOM	5657	1HG1	VAL	E	161	20.772	91.887	-63.645	1.00	0.00	H
ATOM	5658	2HG1	VAL	E	161	20.983	92.055	-65.401	1.00	0.00	H
ATOM	5659	3HG1	VAL	E	161	20.867	90.439	-64.655	1.00	0.00	H
ATOM	5660	CG2	VAL	E	161	18.344	90.778	-63.606	1.00	0.00	C
ATOM	5661	1HG2	VAL	E	161	18.519	91.354	-62.697	1.00	0.00	H
ATOM	5662	2HG2	VAL	E	161	18.765	89.778	-63.486	1.00	0.00	H
ATOM	5663	3HG2	VAL	E	161	17.270	90.678	-63.768	1.00	0.00	H
ATOM	5664	N	GLN	E	162	20.006	94.746	-64.751	1.00	0.00	N
ATOM	5665	H	GLN	E	162	20.191	94.624	-65.736	1.00	0.00	H
ATOM	5666	CA	GLN	E	162	20.669	95.863	-64.058	1.00	0.00	C
ATOM	5667	HA	GLN	E	162	21.100	95.477	-63.136	1.00	0.00	H
ATOM	5668	C	GLN	E	162	19.682	96.977	-63.653	1.00	0.00	C
ATOM	5669	O	GLN	E	162	19.864	97.605	-62.612	1.00	0.00	O
ATOM	5670	CB	GLN	E	162	21.823	96.392	-64.928	1.00	0.00	C
ATOM	5671	1HB	GLN	E	162	22.457	95.550	-65.211	1.00	0.00	H
ATOM	5672	2HB	GLN	E	162	21.421	96.843	-65.832	1.00	0.00	H
ATOM	5673	CG	GLN	E	162	22.691	97.441	-64.217	1.00	0.00	C
ATOM	5674	1HG	GLN	E	162	22.134	98.374	-64.131	1.00	0.00	H
ATOM	5675	2HG	GLN	E	162	22.935	97.087	-63.215	1.00	0.00	H
ATOM	5676	CD	GLN	E	162	23.996	97.714	-64.962	1.00	0.00	C
ATOM	5677	OE1	GLN	E	162	25.083	97.425	-64.486	1.00	0.00	O
ATOM	5678	NE2	GLN	E	162	23.968	98.264	-66.153	1.00	0.00	N
ATOM	5679	1HE2	GLN	E	162	24.841	98.400	-66.615	1.00	0.00	H
ATOM	5680	2HE2	GLN	E	162	23.082	98.475	-66.635	1.00	0.00	H
ATOM	5681	N	ASN	E	163	18.606	97.173	-64.421	1.00	0.00	N
ATOM	5682	H	ASN	E	163	18.550	96.662	-65.294	1.00	0.00	H
ATOM	5683	CA	ASN	E	163	17.470	98.009	-64.023	1.00	0.00	C
ATOM	5684	HA	ASN	E	163	17.832	98.893	-63.493	1.00	0.00	H
ATOM	5685	C	ASN	E	163	16.536	97.250	-63.055	1.00	0.00	C
ATOM	5686	O	ASN	E	163	16.206	97.762	-61.984	1.00	0.00	O
ATOM	5687	CB	ASN	E	163	16.721	98.473	-65.288	1.00	0.00	C
ATOM	5688	1HB	ASN	E	163	16.488	97.619	-65.923	1.00	0.00	H
ATOM	5689	2HB	ASN	E	163	15.779	98.936	-64.993	1.00	0.00	H
ATOM	5690	CG	ASN	E	163	17.496	99.503	-66.097	1.00	0.00	C
ATOM	5691	OD1	ASN	E	163	17.313	100.700	-65.942	1.00	0.00	O
ATOM	5692	ND2	ASN	E	163	18.360	99.062	-66.980	1.00	0.00	N
ATOM	5693	1HD2	ASN	E	163	18.893	99.703	-67.560	1.00	0.00	H
ATOM	5694	2HD2	ASN	E	163	18.580	98.080	-67.060	1.00	0.00	H
ATOM	5695	N	ALA	E	164	16.147	96.012	-63.387	1.00	0.00	N
ATOM	5696	H	ALA	E	164	16.452	95.630	-64.277	1.00	0.00	H
ATOM	5697	CA	ALA	E	164	15.212	95.211	-62.584	1.00	0.00	C
ATOM	5698	HA	ALA	E	164	14.291	95.787	-62.473	1.00	0.00	H
ATOM	5699	C	ALA	E	164	15.711	94.886	-61.158	1.00	0.00	C
ATOM	5700	O	ALA	E	164	14.896	94.687	-60.258	1.00	0.00	O
ATOM	5701	CB	ALA	E	164	14.867	93.926	-63.345	1.00	0.00	C
ATOM	5702	1HB	ALA	E	164	14.016	93.438	-62.867	1.00	0.00	H
ATOM	5703	2HB	ALA	E	164	15.713	93.242	-63.328	1.00	0.00	H
ATOM	5704	3HB	ALA	E	164	14.601	94.151	-64.378	1.00	0.00	H
ATOM	5705	N	LEU	E	165	17.032	94.860	-60.927	1.00	0.00	N
ATOM	5706	H	LEU	E	165	17.650	94.929	-61.729	1.00	0.00	H
ATOM	5707	CA	LEU	E	165	17.644	94.639	-59.610	1.00	0.00	C
ATOM	5708	HA	LEU	E	165	17.016	93.920	-59.086	1.00	0.00	H
ATOM	5709	C	LEU	E	165	17.696	95.891	-58.718	1.00	0.00	C
ATOM	5710	O	LEU	E	165	18.017	95.753	-57.540	1.00	0.00	O
ATOM	5711	CB	LEU	E	165	19.024	93.961	-59.770	1.00	0.00	C
ATOM	5712	1HB	LEU	E	165	19.281	93.481	-58.825	1.00	0.00	H
ATOM	5713	2HB	LEU	E	165	18.887	93.168	-60.504	1.00	0.00	H
ATOM	5714	CG	LEU	E	165	20.229	94.819	-60.219	1.00	0.00	C
ATOM	5715	HG	LEU	E	165	19.910	95.527	-60.979	1.00	0.00	H
ATOM	5716	CD1	LEU	E	165	20.926	95.574	-59.081	1.00	0.00	C
ATOM	5717	1HD1	LEU	E	165	20.263	96.311	-58.640	1.00	0.00	H
ATOM	5718	2HD1	LEU	E	165	21.796	96.104	-59.469	1.00	0.00	H
ATOM	5719	3HD1	LEU	E	165	21.241	94.878	-58.304	1.00	0.00	H
ATOM	5720	CD2	LEU	E	165	21.307	93.902	-60.810	1.00	0.00	C
ATOM	5721	1HD2	LEU	E	165	21.645	93.187	-60.060	1.00	0.00	H

ATOM	5722	2HD2	LEU	E	165	22.154	94.496	-61.153	1.00	0.00	H
ATOM	5723	3HD2	LEU	E	165	20.901	93.356	-61.660	1.00	0.00	H
ATOM	5724	N	LEU	E	166	17.378	97.076	-59.259	1.00	0.00	N
ATOM	5725	H	LEU	E	166	17.092	97.076	-60.231	1.00	0.00	H
ATOM	5726	CA	LEU	E	166	17.723	98.384	-58.676	1.00	0.00	C
ATOM	5727	HA	LEU	E	166	18.135	98.222	-57.679	1.00	0.00	H
ATOM	5728	C	LEU	E	166	16.522	99.343	-58.511	1.00	0.00	C
ATOM	5729	O	LEU	E	166	16.663	100.428	-57.949	1.00	0.00	O
ATOM	5730	CB	LEU	E	166	18.819	98.978	-59.591	1.00	0.00	C
ATOM	5731	1HB	LEU	E	166	19.581	98.216	-59.753	1.00	0.00	H
ATOM	5732	2HB	LEU	E	166	18.371	101.191	-60.563	1.00	0.00	H
ATOM	5733	CG	LEU	E	166	19.534	100.252	-59.103	1.00	0.00	C
ATOM	5734	HG	LEU	E	166	18.833	101.084	-59.064	1.00	0.00	H
ATOM	5735	CD1	LEU	E	166	20.184	100.077	-57.728	1.00	0.00	C
ATOM	5736	1HD1	LEU	E	166	19.410	99.936	-56.973	1.00	0.00	H
ATOM	5737	2HD1	LEU	E	166	20.752	100.969	-57.470	1.00	0.00	H
ATOM	5738	3HD1	LEU	E	166	20.845	99.210	-57.735	1.00	0.00	H
ATOM	5739	CD2	LEU	E	166	20.634	100.623	-60.100	1.00	0.00	C
ATOM	5740	1HD2	LEU	E	166	21.117	101.549	-59.793	1.00	0.00	H
ATOM	5741	2HD2	LEU	E	166	20.196	100.761	-61.089	1.00	0.00	H
ATOM	5742	3HD2	LEU	E	166	21.374	99.823	-60.154	1.00	0.00	H
ATOM	5743	N	LEU	E	167	15.336	98.959	-58.992	1.00	0.00	N
ATOM	5744	H	LEU	E	167	15.310	98.057	-59.445	1.00	0.00	H
ATOM	5745	CA	LEU	E	167	14.142	99.815	-59.113	1.00	0.00	C
ATOM	5746	HA	LEU	E	167	14.301	100.740	-58.560	1.00	0.00	H
ATOM	5747	C	LEU	E	167	12.898	99.147	-58.482	1.00	0.00	C
ATOM	5748	O	LEU	E	167	11.793	99.217	-59.014	1.00	0.00	O
ATOM	5749	CB	LEU	E	167	13.946	100.156	-60.607	1.00	0.00	C
ATOM	5750	1HB	LEU	E	167	13.801	99.219	-61.148	1.00	0.00	H
ATOM	5751	2HB	LEU	E	167	13.036	100.749	-60.715	1.00	0.00	H
ATOM	5752	CG	LEU	E	167	15.100	100.926	-61.283	1.00	0.00	C
ATOM	5753	HG	LEU	E	167	16.030	100.369	-61.184	1.00	0.00	H
ATOM	5754	CD1	LEU	E	167	14.799	101.088	-62.772	1.00	0.00	C
ATOM	5755	1HD1	LEU	E	167	15.638	101.569	-63.274	1.00	0.00	H
ATOM	5756	2HD1	LEU	E	167	13.895	101.678	-62.918	1.00	0.00	H
ATOM	5757	3HD1	LEU	E	167	14.649	100.106	-63.220	1.00	0.00	H
ATOM	5758	CD2	LEU	E	167	15.299	102.323	-60.688	1.00	0.00	C
ATOM	5759	1HD2	LEU	E	167	16.083	102.841	-61.238	1.00	0.00	H
ATOM	5760	2HD2	LEU	E	167	15.609	102.238	-59.648	1.00	0.00	H
ATOM	5761	3HD2	LEU	E	167	14.371	102.890	-60.750	1.00	0.00	H
ATOM	5762	N	ASN	E	168	13.110	98.409	-57.390	1.00	0.00	N
ATOM	5763	H	ASN	E	168	14.060	98.420	-57.036	1.00	0.00	H
ATOM	5764	CA	ASN	E	168	12.346	97.195	-57.073	1.00	0.00	C
ATOM	5765	HA	ASN	E	168	11.347	97.254	-57.513	1.00	0.00	H
ATOM	5766	C	ASN	E	168	12.169	96.872	-55.571	1.00	0.00	C
ATOM	5767	O	ASN	E	168	11.181	96.258	-55.182	1.00	0.00	O
ATOM	5768	CB	ASN	E	168	13.125	96.037	-57.736	1.00	0.00	C
ATOM	5769	1HB	ASN	E	168	12.589	95.108	-57.558	1.00	0.00	H
ATOM	5770	2HB	ASN	E	168	13.170	96.189	-58.814	1.00	0.00	H
ATOM	5771	CG	ASN	E	168	14.550	95.869	-57.211	1.00	0.00	C
ATOM	5772	OD1	ASN	E	168	15.157	96.758	-56.635	1.00	0.00	O
ATOM	5773	ND2	ASN	E	168	15.147	94.724	-57.383	1.00	0.00	N
ATOM	5774	1HD2	ASN	E	168	16.118	94.719	-57.106	1.00	0.00	H
ATOM	5775	2HD2	ASN	E	168	14.770	94.086	-58.069	1.00	0.00	H
ATOM	5776	N	GLU	E	169	13.141	97.210	-54.723	1.00	0.00	N
ATOM	5777	H	GLU	E	169	13.938	97.689	-55.123	1.00	0.00	H
ATOM	5778	CA	GLU	E	169	13.408	96.483	-53.471	1.00	0.00	C
ATOM	5779	HA	GLU	E	169	13.205	95.428	-53.663	1.00	0.00	H
ATOM	5780	C	GLU	E	169	12.524	96.849	-52.260	1.00	0.00	C
ATOM	5781	O	GLU	E	169	12.984	96.717	-51.127	1.00	0.00	O
ATOM	5782	CB	GLU	E	169	14.911	96.597	-53.138	1.00	0.00	C
ATOM	5783	1HB	GLU	E	169	15.130	95.943	-52.293	1.00	0.00	H
ATOM	5784	2HB	GLU	E	169	15.493	96.222	-53.980	1.00	0.00	H
ATOM	5785	CG	GLU	E	169	15.379	98.026	-52.806	1.00	0.00	C
ATOM	5786	1HG	GLU	E	169	15.435	98.612	-53.726	1.00	0.00	H
ATOM	5787	2HG	GLU	E	169	14.660	98.512	-52.144	1.00	0.00	H
ATOM	5788	CD	GLU	E	169	16.746	97.998	-52.117	1.00	0.00	C
ATOM	5789	OE1	GLU	E	169	17.743	97.642	-52.776	1.00	0.00	O
ATOM	5790	OE2	GLU	E	169	16.818	98.262	-50.893	1.00	0.00	O
ATOM	5791	N	THR	E	170	11.295	97.334	-52.453	1.00	0.00	N
ATOM	5792	H	THR	E	170	10.964	97.395	-53.408	1.00	0.00	H
ATOM	5793	CA	THR	E	170	10.519	97.970	-51.364	1.00	0.00	C
ATOM	5794	HA	THR	E	170	10.953	97.684	-50.407	1.00	0.00	H
ATOM	5795	C	THR	E	170	9.047	97.537	-51.278	1.00	0.00	C
ATOM	5796	O	THR	E	170	8.471	97.644	-50.197	1.00	0.00	O
ATOM	5797	CB	THR	E	170	10.626	99.510	-51.455	1.00	0.00	C
ATOM	5798	HB	THR	E	170	10.021	99.847	-52.298	1.00	0.00	H

ATOM	5799	OG1	THR	E	170	11.955	99.932	-51.684	1.00	0.00	O
ATOM	5800	HG1	THR	E	170	12.422	99.976	-50.825	1.00	0.00	H
ATOM	5801	CG2	THR	E	170	10.173	100.253	-50.198	1.00	0.00	C
ATOM	5802	1HG2	THR	E	170	9.098	100.141	-50.065	1.00	0.00	H
ATOM	5803	2HG2	THR	E	170	10.401	101.314	-50.296	1.00	0.00	H
ATOM	5804	3HG2	THR	E	170	10.689	99.856	-49.323	1.00	0.00	H
ATOM	5805	N	GLU	E	171	8.428	97.013	-52.345	1.00	0.00	N
ATOM	5806	H	GLU	E	171	8.937	96.857	-53.204	1.00	0.00	H
ATOM	5807	CA	GLU	E	171	6.997	96.646	-52.340	1.00	0.00	C
ATOM	5808	HA	GLU	E	171	6.719	96.350	-51.329	1.00	0.00	H
ATOM	5809	C	GLU	E	171	6.698	95.460	-53.274	1.00	0.00	C
ATOM	5810	O	GLU	E	171	7.075	95.473	-54.448	1.00	0.00	O
ATOM	5811	CB	GLU	E	171	6.151	97.881	-52.720	1.00	0.00	C
ATOM	5812	1HB	GLU	E	171	6.662	98.776	-52.358	1.00	0.00	H
ATOM	5813	2HB	GLU	E	171	6.077	97.970	-53.805	1.00	0.00	H
ATOM	5814	CG	GLU	E	171	4.748	97.903	-52.093	1.00	0.00	C
ATOM	5815	1HG	GLU	E	171	4.839	97.753	-51.014	1.00	0.00	H
ATOM	5816	2HG	GLU	E	171	4.325	98.900	-52.241	1.00	0.00	H
ATOM	5817	CD	GLU	E	171	3.787	96.868	-52.689	1.00	0.00	C
ATOM	5818	OE1	GLU	E	171	3.249	97.129	-53.785	1.00	0.00	O
ATOM	5819	OE2	GLU	E	171	3.565	95.830	-52.026	1.00	0.00	O
ATOM	5820	N	LEU	E	172	6.011	94.446	-52.743	1.00	0.00	N
ATOM	5821	H	LEU	E	172	5.714	94.535	-51.775	1.00	0.00	H
ATOM	5822	CA	LEU	E	172	5.498	93.279	-53.462	1.00	0.00	C
ATOM	5823	HA	LEU	E	172	5.218	93.577	-54.470	1.00	0.00	H
ATOM	5824	C	LEU	E	172	4.266	92.735	-52.715	1.00	0.00	C
ATOM	5825	O	LEU	E	172	4.321	92.562	-51.494	1.00	0.00	O
ATOM	5826	CB	LEU	E	172	6.618	92.215	-53.514	1.00	0.00	C
ATOM	5827	1HB	LEU	E	172	7.572	92.735	-53.477	1.00	0.00	H
ATOM	5828	2HB	LEU	E	172	6.558	91.598	-52.617	1.00	0.00	H
ATOM	5829	CG	LEU	E	172	6.670	91.289	-54.743	1.00	0.00	C
ATOM	5830	HG	LEU	E	172	7.301	90.436	-54.495	1.00	0.00	H
ATOM	5831	CD1	LEU	E	172	5.310	90.748	-55.170	1.00	0.00	C
ATOM	5832	1HD1	LEU	E	172	4.681	91.548	-55.551	1.00	0.00	H
ATOM	5833	2HD1	LEU	E	172	4.826	90.273	-54.321	1.00	0.00	H
ATOM	5834	3HD1	LEU	E	172	5.429	90.004	-55.953	1.00	0.00	H
ATOM	5835	CD2	LEU	E	172	7.318	92.014	-55.918	1.00	0.00	C
ATOM	5836	1HD2	LEU	E	172	7.324	91.376	-56.800	1.00	0.00	H
ATOM	5837	2HD2	LEU	E	172	8.345	92.278	-55.676	1.00	0.00	H
ATOM	5838	3HD2	LEU	E	172	6.773	92.931	-56.120	1.00	0.00	H
ATOM	5839	N	HIS	E	173	3.175	92.409	-53.421	1.00	0.00	N
ATOM	5840	H	HIS	E	173	3.172	92.593	-54.418	1.00	0.00	H
ATOM	5841	CA	HIS	E	173	1.981	91.759	-52.842	1.00	0.00	C
ATOM	5842	HA	HIS	E	173	1.238	91.691	-53.639	1.00	0.00	H
ATOM	5843	C	HIS	E	173	1.316	92.586	-51.702	1.00	0.00	C
ATOM	5844	O	HIS	E	173	0.536	92.068	-50.899	1.00	0.00	O
ATOM	5845	CB	HIS	E	173	2.372	90.305	-52.473	1.00	0.00	C
ATOM	5846	1HB	HIS	E	173	2.788	89.834	-53.363	1.00	0.00	H
ATOM	5847	2HB	HIS	E	173	3.154	90.319	-51.714	1.00	0.00	H
ATOM	5848	CG	HIS	E	173	1.273	89.397	-51.984	1.00	0.00	C
ATOM	5849	ND1	HIS	E	173	0.235	88.897	-52.726	1.00	0.00	N
ATOM	5850	HD1	HIS	E	173	0.154	88.989	-53.750	1.00	0.00	H
ATOM	5851	CD2	HIS	E	173	1.205	88.791	-50.762	1.00	0.00	C
ATOM	5852	HD2	HIS	E	173	1.921	88.915	-49.964	1.00	0.00	H
ATOM	5853	CE1	HIS	E	173	-0.455	88.032	-51.970	1.00	0.00	C
ATOM	5854	HE1	HIS	E	173	-1.266	87.413	-52.334	1.00	0.00	H
ATOM	5855	NE2	HIS	E	173	0.055	87.988	-50.724	1.00	0.00	N
ATOM	5856	N	GLY	E	174	1.615	93.885	-51.578	1.00	0.00	N
ATOM	5857	H	GLY	E	174	2.307	94.295	-52.206	1.00	0.00	H
ATOM	5858	CA	GLY	E	174	1.144	94.763	-50.501	1.00	0.00	C
ATOM	5859	1HA	GLY	E	174	1.141	95.784	-50.881	1.00	0.00	H
ATOM	5860	2HA	GLY	E	174	0.126	94.494	-50.220	1.00	0.00	H
ATOM	5861	C	GLY	E	174	2.027	94.742	-49.244	1.00	0.00	C
ATOM	5862	O	GLY	E	174	1.538	95.065	-48.157	1.00	0.00	O
ATOM	5863	N	ARG	E	175	3.287	94.298	-49.347	1.00	0.00	N
ATOM	5864	H	ARG	E	175	3.631	94.114	-50.290	1.00	0.00	H
ATOM	5865	CA	ARG	E	175	4.229	94.081	-48.232	1.00	0.00	C
ATOM	5866	HA	ARG	E	175	3.940	94.710	-47.392	1.00	0.00	H
ATOM	5867	C	ARG	E	175	5.664	94.468	-48.621	1.00	0.00	C
ATOM	5868	O	ARG	E	175	5.999	94.602	-49.792	1.00	0.00	O
ATOM	5869	CB	ARG	E	175	4.210	92.598	-47.796	1.00	0.00	C
ATOM	5870	1HB	ARG	E	175	4.380	91.960	-48.666	1.00	0.00	H
ATOM	5871	2HB	ARG	E	175	5.054	92.434	-47.124	1.00	0.00	H
ATOM	5872	CG	ARG	E	175	2.960	92.115	-47.037	1.00	0.00	C
ATOM	5873	1HG	ARG	E	175	3.261	91.226	-46.482	1.00	0.00	H
ATOM	5874	2HG	ARG	E	175	2.655	92.866	-46.308	1.00	0.00	H
ATOM	5875	CD	ARG	E	175	1.763	91.749	-47.930	1.00	0.00	C

ATOM	5876	1HD	ARG	E	175	1.059	92.580	-47.955	1.00	0.00	H
ATOM	5877	2HD	ARG	E	175	2.126	91.566	-48.944	1.00	0.00	H
ATOM	5878	NE	ARG	E	175	1.081	90.533	-47.450	1.00	0.00	N
ATOM	5879	HE	ARG	E	175	1.570	89.983	-46.743	1.00	0.00	H
ATOM	5880	CZ	ARG	E	175	0.103	89.896	-48.064	1.00	0.00	C
ATOM	5881	NH1	ARG	E	175	-0.591	90.420	-49.029	1.00	0.00	N
ATOM	5882	1HH1	ARG	E	175	-0.222	91.262	-49.463	1.00	0.00	H
ATOM	5883	2HH1	ARG	E	175	-1.036	89.774	-49.659	1.00	0.00	H
ATOM	5884	NH2	ARG	E	175	-0.149	88.654	-47.784	1.00	0.00	N
ATOM	5885	1HH2	ARG	E	175	0.586	88.142	-47.290	1.00	0.00	H
ATOM	5886	2HH2	ARG	E	175	-0.610	88.132	-48.510	1.00	0.00	H
ATOM	5887	N	GLN	E	176	6.533	94.618	-47.616	1.00	0.00	N
ATOM	5888	H	GLN	E	176	6.206	94.458	-46.681	1.00	0.00	H
ATOM	5889	CA	GLN	E	176	7.979	94.741	-47.834	1.00	0.00	C
ATOM	5890	HA	GLN	E	176	8.141	95.517	-48.585	1.00	0.00	H
ATOM	5891	C	GLN	E	176	8.592	93.432	-48.368	1.00	0.00	C
ATOM	5892	O	GLN	E	176	8.128	92.341	-48.038	1.00	0.00	O
ATOM	5893	CB	GLN	E	176	8.687	95.183	-46.533	1.00	0.00	C
ATOM	5894	1HB	GLN	E	176	9.710	95.472	-46.783	1.00	0.00	H
ATOM	5895	2HB	GLN	E	176	8.182	96.068	-46.142	1.00	0.00	H
ATOM	5896	CG	GLN	E	176	8.751	94.107	-45.428	1.00	0.00	C
ATOM	5897	1HG	GLN	E	176	7.741	93.798	-45.159	1.00	0.00	H
ATOM	5898	2HG	GLN	E	176	9.284	93.232	-45.800	1.00	0.00	H
ATOM	5899	CD	GLN	E	176	9.456	94.602	-44.165	1.00	0.00	C
ATOM	5900	OE1	GLN	E	176	8.967	95.473	-43.463	1.00	0.00	O
ATOM	5901	NE2	GLN	E	176	10.606	94.057	-43.825	1.00	0.00	N
ATOM	5902	1HE2	GLN	E	176	11.083	94.416	-43.000	1.00	0.00	H
ATOM	5903	2HE2	GLN	E	176	11.007	93.306	-44.362	1.00	0.00	H
ATOM	5904	N	LEU	E	177	9.714	93.555	-49.077	1.00	0.00	N
ATOM	5905	H	LEU	E	177	10.022	94.489	-49.314	1.00	0.00	H
ATOM	5906	CA	LEU	E	177	10.693	92.492	-49.326	1.00	0.00	C
ATOM	5907	HA	LEU	E	177	10.749	91.856	-48.443	1.00	0.00	H
ATOM	5908	C	LEU	E	177	12.087	93.114	-49.531	1.00	0.00	C
ATOM	5909	O	LEU	E	177	12.214	94.337	-49.455	1.00	0.00	O
ATOM	5910	CB	LEU	E	177	10.249	91.601	-50.503	1.00	0.00	C
ATOM	5911	1HB	LEU	E	177	11.009	90.838	-50.654	1.00	0.00	H
ATOM	5912	2HB	LEU	E	177	9.345	91.076	-50.191	1.00	0.00	H
ATOM	5913	CG	LEU	E	177	9.954	92.258	-51.866	1.00	0.00	C
ATOM	5914	HG	LEU	E	177	9.052	92.861	-51.783	1.00	0.00	H
ATOM	5915	CD1	LEU	E	177	11.070	93.127	-52.454	1.00	0.00	C
ATOM	5916	1HD1	LEU	E	177	12.002	92.566	-52.486	1.00	0.00	H
ATOM	5917	2HD1	LEU	E	177	11.187	94.032	-51.861	1.00	0.00	H
ATOM	5918	3HD1	LEU	E	177	10.799	93.436	-53.465	1.00	0.00	H
ATOM	5919	CD2	LEU	E	177	9.722	91.115	-52.854	1.00	0.00	C
ATOM	5920	1HD2	LEU	E	177	10.603	90.482	-52.898	1.00	0.00	H
ATOM	5921	2HD2	LEU	E	177	9.528	91.510	-53.849	1.00	0.00	H
ATOM	5922	3HD2	LEU	E	177	8.870	90.515	-52.535	1.00	0.00	H
ATOM	5923	N	LYS	E	178	13.115	92.307	-49.823	1.00	0.00	N
ATOM	5924	H	LYS	E	178	12.936	91.304	-49.857	1.00	0.00	H
ATOM	5925	CA	LYS	E	178	14.425	92.777	-50.319	1.00	0.00	C
ATOM	5926	HA	LYS	E	178	14.264	93.728	-50.824	1.00	0.00	H
ATOM	5927	C	LYS	E	178	14.983	91.844	-51.404	1.00	0.00	C
ATOM	5928	O	LYS	E	178	14.506	90.727	-51.580	1.00	0.00	O
ATOM	5929	CB	LYS	E	178	15.412	92.977	-49.141	1.00	0.00	C
ATOM	5930	1HB	LYS	E	178	15.389	92.086	-48.510	1.00	0.00	H
ATOM	5931	2HB	LYS	E	178	16.427	93.074	-49.528	1.00	0.00	H
ATOM	5932	CG	LYS	E	178	15.127	94.214	-48.261	1.00	0.00	C
ATOM	5933	1HG	LYS	E	178	14.103	94.181	-47.898	1.00	0.00	H
ATOM	5934	2HG	LYS	E	178	15.758	94.164	-47.379	1.00	0.00	H
ATOM	5935	CD	LYS	E	178	15.389	95.541	-49.002	1.00	0.00	C
ATOM	5936	1HD	LYS	E	178	16.465	95.697	-49.100	1.00	0.00	H
ATOM	5937	2HD	LYS	E	178	14.972	95.476	-50.001	1.00	0.00	H
ATOM	5938	CE	LYS	E	178	14.755	96.761	-48.320	1.00	0.00	C
ATOM	5939	1HE	LYS	E	178	13.748	96.487	-47.994	1.00	0.00	H
ATOM	5940	2HE	LYS	E	178	15.354	97.040	-47.451	1.00	0.00	H
ATOM	5941	NZ	LYS	E	178	14.659	97.883	-49.285	1.00	0.00	N
ATOM	5942	1HZ	LYS	E	178	14.062	97.604	-50.060	1.00	0.00	H
ATOM	5943	2HZ	LYS	E	178	15.559	98.115	-49.708	1.00	0.00	H
ATOM	5944	3HZ	LYS	E	178	14.227	98.740	-48.938	1.00	0.00	H
ATOM	5945	N	VAL	E	179	15.977	92.322	-52.157	1.00	0.00	N
ATOM	5946	H	VAL	E	179	16.360	93.221	-51.913	1.00	0.00	H
ATOM	5947	CA	VAL	E	179	16.486	91.691	-53.397	1.00	0.00	C
ATOM	5948	HA	VAL	E	179	16.179	90.646	-53.421	1.00	0.00	H
ATOM	5949	C	VAL	E	179	18.021	91.737	-53.417	1.00	0.00	C
ATOM	5950	O	VAL	E	179	18.615	92.626	-52.802	1.00	0.00	O
ATOM	5951	CB	VAL	E	179	15.892	92.399	-54.643	1.00	0.00	C
ATOM	5952	HB	VAL	E	179	16.259	93.425	-54.672	1.00	0.00	H

ATOM	5953	CG1	VAL	E	179	16.278	91.713	-55.961	1.00	0.00	C
ATOM	5954	1HG1	VAL	E	179	15.990	90.663	-55.941	1.00	0.00	H
ATOM	5955	2HG1	VAL	E	179	17.348	91.797	-56.144	1.00	0.00	H
ATOM	5956	3HG1	VAL	E	179	15.761	92.187	-56.792	1.00	0.00	H
ATOM	5957	CG2	VAL	E	179	14.356	92.447	-54.601	1.00	0.00	C
ATOM	5958	1HG2	VAL	E	179	14.017	93.073	-53.778	1.00	0.00	H
ATOM	5959	2HG2	VAL	E	179	13.956	91.440	-54.485	1.00	0.00	H
ATOM	5960	3HG2	VAL	E	179	13.965	92.878	-55.523	1.00	0.00	H
ATOM	5961	N	SER	E	180	18.682	90.788	-54.086	1.00	0.00	N
ATOM	5962	H	SER	E	180	18.133	90.062	-54.547	1.00	0.00	H
ATOM	5963	CA	SER	E	180	20.150	90.698	-54.241	1.00	0.00	C
ATOM	5964	HA	SER	E	180	20.585	91.698	-54.253	1.00	0.00	H
ATOM	5965	C	SER	E	180	20.542	89.999	-55.549	1.00	0.00	C
ATOM	5966	O	SER	E	180	19.719	89.322	-56.149	1.00	0.00	O
ATOM	5967	CB	SER	E	180	20.746	89.911	-53.068	1.00	0.00	C
ATOM	5968	1HB	SER	E	180	20.200	88.975	-52.931	1.00	0.00	H
ATOM	5969	2HB	SER	E	180	21.796	89.683	-53.260	1.00	0.00	H
ATOM	5970	OG	SER	E	180	20.655	90.705	-51.906	1.00	0.00	O
ATOM	5971	HG	SER	E	180	19.763	91.070	-51.873	1.00	0.00	H
ATOM	5972	N	ALA	E	181	21.792	90.136	-56.001	1.00	0.00	N
ATOM	5973	H	ALA	E	181	22.455	90.659	-55.454	1.00	0.00	H
ATOM	5974	CA	ALA	E	181	22.314	89.348	-57.126	1.00	0.00	C
ATOM	5975	HA	ALA	E	181	21.660	89.483	-57.985	1.00	0.00	H
ATOM	5976	C	ALA	E	181	22.355	87.836	-56.810	1.00	0.00	C
ATOM	5977	O	ALA	E	181	22.400	87.464	-55.636	1.00	0.00	O
ATOM	5978	CB	ALA	E	181	23.704	89.884	-57.490	1.00	0.00	C
ATOM	5979	1HB	ALA	E	181	23.641	90.944	-57.736	1.00	0.00	H
ATOM	5980	2HB	ALA	E	181	24.088	89.343	-58.356	1.00	0.00	H
ATOM	5981	3HB	ALA	E	181	24.388	89.741	-56.653	1.00	0.00	H
ATOM	5982	N	LYS	E	182	22.384	86.987	-57.846	1.00	0.00	N
ATOM	5983	H	LYS	E	182	22.311	87.345	-58.794	1.00	0.00	H
ATOM	5984	CA	LYS	E	182	22.554	85.529	-57.746	1.00	0.00	C
ATOM	5985	HA	LYS	E	182	23.081	85.288	-56.822	1.00	0.00	H
ATOM	5986	C	LYS	E	182	23.432	85.010	-58.882	1.00	0.00	C
ATOM	5987	O	LYS	E	182	23.398	85.571	-60.000	1.00	0.00	O
ATOM	5988	OXT	LYS	E	182	24.124	83.991	-58.695	1.00	0.00	O
ATOM	5989	CB	LYS	E	182	21.165	84.854	-57.718	1.00	0.00	C
ATOM	5990	1HB	LYS	E	182	20.536	85.383	-57.002	1.00	0.00	H
ATOM	5991	2HB	LYS	E	182	20.705	84.925	-58.706	1.00	0.00	H
ATOM	5992	CG	LYS	E	182	21.242	83.380	-57.287	1.00	0.00	C
ATOM	5993	1HG	LYS	E	182	21.809	82.814	-58.028	1.00	0.00	H
ATOM	5994	2HG	LYS	E	182	21.764	83.322	-56.330	1.00	0.00	H
ATOM	5995	CD	LYS	E	182	19.856	82.736	-57.133	1.00	0.00	C
ATOM	5996	1HD	LYS	E	182	19.260	83.312	-56.423	1.00	0.00	H
ATOM	5997	2HD	LYS	E	182	19.353	82.721	-58.101	1.00	0.00	H
ATOM	5998	CE	LYS	E	182	20.026	81.305	-56.606	1.00	0.00	C
ATOM	5999	1HE	LYS	E	182	20.681	80.750	-57.283	1.00	0.00	H
ATOM	6000	2HE	LYS	E	182	20.516	81.347	-55.627	1.00	0.00	H
ATOM	6001	NZ	LYS	E	182	18.737	80.589	-56.469	1.00	0.00	N
ATOM	6002	1HZ	LYS	E	182	18.272	80.428	-57.356	1.00	0.00	H
ATOM	6003	2HZ	LYS	E	182	18.129	81.026	-55.773	1.00	0.00	H
ATOM	6004	3HZ	LYS	E	182	18.893	79.663	-56.075	1.00	0.00	H
TER	6005		LYS	E	182						
ATOM	6006	N	ASP	F	106	14.099	74.254	-80.797	1.00	0.00	N
ATOM	6007	1H	ASP	F	106	14.350	73.312	-80.520	1.00	0.00	H
ATOM	6008	2H	ASP	F	106	13.136	74.421	-80.525	1.00	0.00	H
ATOM	6009	3H	ASP	F	106	14.658	74.923	-80.275	1.00	0.00	H
ATOM	6010	CA	ASP	F	106	14.282	74.440	-82.255	1.00	0.00	C
ATOM	6011	HA	ASP	F	106	15.345	74.344	-82.469	1.00	0.00	H
ATOM	6012	C	ASP	F	106	13.877	75.827	-82.792	1.00	0.00	C
ATOM	6013	O	ASP	F	106	14.433	76.197	-83.824	1.00	0.00	O
ATOM	6014	CB	ASP	F	106	13.570	73.327	-83.039	1.00	0.00	C
ATOM	6015	1HB	ASP	F	106	13.677	73.497	-84.111	1.00	0.00	H
ATOM	6016	2HB	ASP	F	106	14.025	72.366	-82.795	1.00	0.00	H
ATOM	6017	CG	ASP	F	106	12.101	73.318	-82.650	1.00	0.00	C
ATOM	6018	OD1	ASP	F	106	11.809	72.673	-81.620	1.00	0.00	O
ATOM	6019	OD2	ASP	F	106	11.365	74.188	-83.142	1.00	0.00	O
ATOM	6020	N	SER	F	107	12.941	76.566	-82.163	1.00	0.00	N
ATOM	6021	H	SER	F	107	12.672	76.247	-81.232	1.00	0.00	H
ATOM	6022	CA	SER	F	107	12.343	77.890	-82.512	1.00	0.00	C
ATOM	6023	HA	SER	F	107	12.452	78.493	-81.610	1.00	0.00	H
ATOM	6024	C	SER	F	107	10.824	77.865	-82.785	1.00	0.00	C
ATOM	6025	O	SER	F	107	10.198	78.924	-82.922	1.00	0.00	O
ATOM	6026	CB	SER	F	107	13.048	78.681	-83.627	1.00	0.00	C
ATOM	6027	1HB	SER	F	107	12.626	79.685	-83.673	1.00	0.00	H
ATOM	6028	2HB	SER	F	107	14.110	78.769	-83.392	1.00	0.00	H
ATOM	6029	OG	SER	F	107	12.891	78.065	-84.886	1.00	0.00	O



ATOM	6030	HG	SER	F	107	13.397	77.233	-84.815	1.00	0.00	H
ATOM	6031	N	ARG	F	108	10.195	76.684	-82.820	1.00	0.00	N
ATOM	6032	H	ARG	F	108	10.763	75.834	-82.830	1.00	0.00	H
ATOM	6033	CA	ARG	F	108	8.730	76.489	-82.835	1.00	0.00	C
ATOM	6034	HA	ARG	F	108	8.239	77.434	-83.001	1.00	0.00	H
ATOM	6035	C	ARG	F	108	8.176	76.032	-81.489	1.00	0.00	C
ATOM	6036	O	ARG	F	108	7.021	75.626	-81.385	1.00	0.00	O
ATOM	6037	CB	ARG	F	108	8.336	75.513	-83.963	1.00	0.00	C
ATOM	6038	1HB	ARG	F	108	8.741	74.523	-83.746	1.00	0.00	H
ATOM	6039	2HB	ARG	F	108	7.249	75.417	-83.978	1.00	0.00	H
ATOM	6040	CG	ARG	F	108	8.796	75.938	-85.369	1.00	0.00	C
ATOM	6041	1HG	ARG	F	108	9.867	75.753	-85.462	1.00	0.00	H
ATOM	6042	2HG	ARG	F	108	8.287	75.306	-86.097	1.00	0.00	H
ATOM	6043	CD	ARG	F	108	8.527	77.414	-85.711	1.00	0.00	C
ATOM	6044	1HD	ARG	F	108	9.242	78.035	-85.172	1.00	0.00	H
ATOM	6045	2HD	ARG	F	108	8.703	77.557	-86.778	1.00	0.00	H
ATOM	6046	NE	ARG	F	108	7.142	77.810	-85.394	1.00	0.00	N
ATOM	6047	HE	ARG	F	108	6.405	77.282	-85.852	1.00	0.00	H
ATOM	6048	CZ	ARG	F	108	6.715	78.763	-84.590	1.00	0.00	C
ATOM	6049	NH1	ARG	F	108	7.508	79.626	-84.014	1.00	0.00	N
ATOM	6050	1HH1	ARG	F	108	8.505	79.447	-84.019	1.00	0.00	H
ATOM	6051	2HH1	ARG	F	108	7.113	80.273	-83.362	1.00	0.00	H
ATOM	6052	NH2	ARG	F	108	5.451	78.859	-84.322	1.00	0.00	N
ATOM	6053	1HH2	ARG	F	108	4.815	78.115	-84.609	1.00	0.00	H
ATOM	6054	2HH2	ARG	F	108	5.051	79.654	-83.851	1.00	0.00	H
ATOM	6055	N	SER	F	109	9.000	76.121	-80.450	1.00	0.00	N
ATOM	6056	H	SER	F	109	9.926	76.480	-80.610	1.00	0.00	H
ATOM	6057	CA	SER	F	109	8.841	75.313	-79.253	1.00	0.00	C
ATOM	6058	HA	SER	F	109	7.789	75.063	-79.118	1.00	0.00	H
ATOM	6059	C	SER	F	109	9.305	75.979	-77.961	1.00	0.00	C
ATOM	6060	O	SER	F	109	9.907	77.058	-77.940	1.00	0.00	O
ATOM	6061	CB	SER	F	109	9.611	74.016	-79.485	1.00	0.00	C
ATOM	6062	1HB	SER	F	109	9.557	73.394	-78.599	1.00	0.00	H
ATOM	6063	2HB	SER	F	109	9.149	73.485	-80.314	1.00	0.00	H
ATOM	6064	OG	SER	F	109	10.962	74.247	-79.816	1.00	0.00	O
ATOM	6065	HG	SER	F	109	11.168	73.614	-80.549	1.00	0.00	H
ATOM	6066	N	ILE	F	110	8.994	75.298	-76.861	1.00	0.00	N
ATOM	6067	H	ILE	F	110	8.497	74.419	-76.983	1.00	0.00	H
ATOM	6068	CA	ILE	F	110	9.282	75.698	-75.486	1.00	0.00	C
ATOM	6069	HA	ILE	F	110	10.064	76.452	-75.499	1.00	0.00	H
ATOM	6070	C	ILE	F	110	9.824	74.499	-74.707	1.00	0.00	C
ATOM	6071	O	ILE	F	110	9.412	73.366	-74.951	1.00	0.00	O
ATOM	6072	CB	ILE	F	110	8.023	76.298	-74.805	1.00	0.00	C
ATOM	6073	HB	ILE	F	110	8.271	76.486	-73.759	1.00	0.00	H
ATOM	6074	CG1	ILE	F	110	6.810	75.333	-74.826	1.00	0.00	C
ATOM	6075	1HG1	ILE	F	110	6.671	74.936	-75.830	1.00	0.00	H
ATOM	6076	2HG1	ILE	F	110	7.029	74.498	-74.161	1.00	0.00	H
ATOM	6077	CG2	ILE	F	110	7.682	77.661	-75.429	1.00	0.00	C
ATOM	6078	1HG2	ILE	F	110	6.923	78.159	-74.828	1.00	0.00	H
ATOM	6079	2HG2	ILE	F	110	7.311	77.529	-76.445	1.00	0.00	H
ATOM	6080	3HG2	ILE	F	110	8.563	78.297	-75.448	1.00	0.00	H
ATOM	6081	CD1	ILE	F	110	5.468	75.943	-74.398	1.00	0.00	C
ATOM	6082	1HD1	ILE	F	110	5.580	76.487	-73.465	1.00	0.00	H
ATOM	6083	2HD1	ILE	F	110	4.733	75.150	-74.259	1.00	0.00	H
ATOM	6084	3HD1	ILE	F	110	5.101	76.622	-75.168	1.00	0.00	H
ATOM	6085	N	TYR	F	111	10.728	74.757	-73.762	1.00	0.00	N
ATOM	6086	H	TYR	F	111	10.967	75.729	-73.605	1.00	0.00	H
ATOM	6087	CA	TYR	F	111	11.098	73.826	-72.705	1.00	0.00	C
ATOM	6088	HA	TYR	F	111	10.853	72.818	-73.036	1.00	0.00	H
ATOM	6089	C	TYR	F	111	10.299	74.111	-71.431	1.00	0.00	C
ATOM	6090	O	TYR	F	111	9.866	75.236	-71.171	1.00	0.00	O
ATOM	6091	CB	TYR	F	111	12.609	73.856	-72.430	1.00	0.00	C
ATOM	6092	1HB	TYR	F	111	12.846	72.981	-71.823	1.00	0.00	H
ATOM	6093	2HB	TYR	F	111	13.131	73.724	-73.375	1.00	0.00	H
ATOM	6094	CG	TYR	F	111	13.178	75.074	-71.715	1.00	0.00	C
ATOM	6095	CD1	TYR	F	111	13.921	76.031	-72.432	1.00	0.00	C
ATOM	6096	HD1	TYR	F	111	14.007	75.956	-73.507	1.00	0.00	H
ATOM	6097	CD2	TYR	F	111	13.056	75.199	-70.315	1.00	0.00	C
ATOM	6098	HD2	TYR	F	111	12.474	74.479	-69.756	1.00	0.00	H
ATOM	6099	CE1	TYR	F	111	14.566	77.083	-71.754	1.00	0.00	C
ATOM	6100	HE1	TYR	F	111	15.134	77.816	-72.308	1.00	0.00	H
ATOM	6101	CE2	TYR	F	111	13.717	76.234	-69.629	1.00	0.00	C
ATOM	6102	HE2	TYR	F	111	13.634	76.304	-68.554	1.00	0.00	H
ATOM	6103	CZ	TYR	F	111	14.487	77.171	-70.348	1.00	0.00	C
ATOM	6104	OH	TYR	F	111	15.115	78.180	-69.688	1.00	0.00	O
ATOM	6105	HH	TYR	F	111	15.066	78.050	-68.739	1.00	0.00	H
ATOM	6106	N	VAL	F	112	10.142	73.074	-70.617	1.00	0.00	N

ATOM	6107	H	VAL	F	112	10.546	72.191	-70.922	1.00	0.00	H
ATOM	6108	CA	VAL	F	112	9.202	72.996	-69.496	1.00	0.00	C
ATOM	6109	HA	VAL	F	112	8.859	73.988	-69.203	1.00	0.00	H
ATOM	6110	C	VAL	F	112	9.952	72.356	-68.329	1.00	0.00	C
ATOM	6111	O	VAL	F	112	10.263	71.174	-68.398	1.00	0.00	O
ATOM	6112	CB	VAL	F	112	7.991	72.144	-69.946	1.00	0.00	C
ATOM	6113	HB	VAL	F	112	8.356	71.189	-70.322	1.00	0.00	H
ATOM	6114	CG1	VAL	F	112	7.015	71.861	-68.807	1.00	0.00	C
ATOM	6115	1HG1	VAL	F	112	6.665	72.795	-68.377	1.00	0.00	H
ATOM	6116	2HG1	VAL	F	112	7.509	71.259	-68.045	1.00	0.00	H
ATOM	6117	3HG1	VAL	F	112	6.162	71.292	-69.181	1.00	0.00	H
ATOM	6118	CG2	VAL	F	112	7.201	72.814	-71.080	1.00	0.00	C
ATOM	6119	1HG2	VAL	F	112	6.761	73.750	-70.738	1.00	0.00	H
ATOM	6120	2HG2	VAL	F	112	6.412	72.145	-71.414	1.00	0.00	H
ATOM	6121	3HG2	VAL	F	112	7.842	73.006	-71.939	1.00	0.00	H
ATOM	6122	N	GLY	F	113	10.323	73.134	-67.307	1.00	0.00	N
ATOM	6123	H	GLY	F	113	9.975	74.087	-67.275	1.00	0.00	H
ATOM	6124	CA	GLY	F	113	11.281	72.740	-66.260	1.00	0.00	C
ATOM	6125	1HA	GLY	F	113	11.502	71.674	-66.327	1.00	0.00	H
ATOM	6126	2HA	GLY	F	113	12.218	73.271	-66.425	1.00	0.00	H
ATOM	6127	C	GLY	F	113	10.805	73.049	-64.834	1.00	0.00	C
ATOM	6128	O	GLY	F	113	9.706	73.574	-64.641	1.00	0.00	O
ATOM	6129	N	ASN	F	114	11.636	72.725	-63.831	1.00	0.00	N
ATOM	6130	H	ASN	F	114	12.540	72.335	-64.068	1.00	0.00	H
ATOM	6131	CA	ASN	F	114	11.315	72.874	-62.396	1.00	0.00	C
ATOM	6132	HA	ASN	F	114	12.192	72.541	-61.836	1.00	0.00	H
ATOM	6133	C	ASN	F	114	10.137	71.956	-61.953	1.00	0.00	C
ATOM	6134	O	ASN	F	114	9.229	72.399	-61.248	1.00	0.00	O
ATOM	6135	CB	ASN	F	114	11.119	74.386	-62.104	1.00	0.00	C
ATOM	6136	1HB	ASN	F	114	11.791	74.964	-62.738	1.00	0.00	H
ATOM	6137	2HB	ASN	F	114	10.098	74.679	-62.345	1.00	0.00	H
ATOM	6138	CG	ASN	F	114	11.404	74.809	-60.676	1.00	0.00	C
ATOM	6139	OD1	ASN	F	114	12.246	75.656	-60.424	1.00	0.00	O
ATOM	6140	ND2	ASN	F	114	10.699	74.279	-59.708	1.00	0.00	N
ATOM	6141	1HD2	ASN	F	114	10.966	74.521	-58.763	1.00	0.00	H
ATOM	6142	2HD2	ASN	F	114	9.991	73.588	-59.936	1.00	0.00	H
ATOM	6143	N	VAL	F	115	10.112	70.699	-62.428	1.00	0.00	N
ATOM	6144	H	VAL	F	115	10.931	70.374	-62.916	1.00	0.00	H
ATOM	6145	CA	VAL	F	115	8.898	69.849	-62.530	1.00	0.00	C
ATOM	6146	HA	VAL	F	115	8.029	70.503	-62.464	1.00	0.00	H
ATOM	6147	C	VAL	F	115	8.762	68.798	-61.410	1.00	0.00	C
ATOM	6148	O	VAL	F	115	9.742	68.353	-60.814	1.00	0.00	O
ATOM	6149	CB	VAL	F	115	8.852	69.157	-63.919	1.00	0.00	C
ATOM	6150	HB	VAL	F	115	9.630	68.394	-63.960	1.00	0.00	H
ATOM	6151	CG1	VAL	F	115	7.503	68.489	-64.219	1.00	0.00	C
ATOM	6152	1HG1	VAL	F	115	7.393	67.585	-63.624	1.00	0.00	H
ATOM	6153	2HG1	VAL	F	115	7.456	68.181	-65.265	1.00	0.00	H
ATOM	6154	3HG1	VAL	F	115	6.684	69.172	-64.008	1.00	0.00	H
ATOM	6155	CG2	VAL	F	115	9.125	70.164	-65.043	1.00	0.00	C
ATOM	6156	1HG2	VAL	F	115	8.848	69.759	-66.015	1.00	0.00	H
ATOM	6157	2HG2	VAL	F	115	10.190	70.373	-65.076	1.00	0.00	H
ATOM	6158	3HG2	VAL	F	115	8.564	71.081	-64.875	1.00	0.00	H
ATOM	6159	N	ASP	F	116	7.517	68.391	-61.135	1.00	0.00	N
ATOM	6160	H	ASP	F	116	6.774	68.782	-61.691	1.00	0.00	H
ATOM	6161	CA	ASP	F	116	7.150	67.276	-60.252	1.00	0.00	C
ATOM	6162	HA	ASP	F	116	7.756	67.338	-59.347	1.00	0.00	H
ATOM	6163	C	ASP	F	116	7.383	65.897	-60.912	1.00	0.00	C
ATOM	6164	O	ASP	F	116	6.912	65.625	-62.017	1.00	0.00	O
ATOM	6165	CB	ASP	F	116	5.675	67.448	-59.858	1.00	0.00	C
ATOM	6166	1HB	ASP	F	116	5.536	68.451	-59.447	1.00	0.00	H
ATOM	6167	2HB	ASP	F	116	5.049	67.366	-60.749	1.00	0.00	H
ATOM	6168	CG	ASP	F	116	5.202	66.424	-58.824	1.00	0.00	C
ATOM	6169	OD1	ASP	F	116	4.728	66.835	-57.743	1.00	0.00	O
ATOM	6170	OD2	ASP	F	116	5.178	65.212	-59.119	1.00	0.00	O
ATOM	6171	N	TYR	F	117	8.067	65.009	-60.183	1.00	0.00	N
ATOM	6172	H	TYR	F	117	8.303	65.281	-59.246	1.00	0.00	H
ATOM	6173	CA	TYR	F	117	8.568	63.702	-60.632	1.00	0.00	C
ATOM	6174	HA	TYR	F	117	9.103	63.863	-61.565	1.00	0.00	H
ATOM	6175	C	TYR	F	117	7.516	62.619	-60.967	1.00	0.00	C
ATOM	6176	O	TYR	F	117	7.899	61.466	-61.175	1.00	0.00	O
ATOM	6177	CB	TYR	F	117	9.585	63.203	-59.589	1.00	0.00	C
ATOM	6178	1HB	TYR	F	117	10.073	62.306	-59.971	1.00	0.00	H
ATOM	6179	2HB	TYR	F	117	10.365	63.958	-59.478	1.00	0.00	H
ATOM	6180	CG	TYR	F	117	8.998	62.898	-58.219	1.00	0.00	C
ATOM	6181	CD1	TYR	F	117	9.027	63.869	-57.197	1.00	0.00	C
ATOM	6182	HD1	TYR	F	117	9.477	64.834	-57.380	1.00	0.00	H
ATOM	6183	CD2	TYR	F	117	8.399	61.646	-57.976	1.00	0.00	C

ATOM	6184	HD2	TYR	F	117	8.369	60.904	-58.765	1.00	0.00	H
ATOM	6185	CE1	TYR	F	117	8.448	63.592	-55.943	1.00	0.00	C
ATOM	6186	HE1	TYR	F	117	8.446	64.338	-55.164	1.00	0.00	H
ATOM	6187	CE2	TYR	F	117	7.809	61.368	-56.729	1.00	0.00	C
ATOM	6188	HE2	TYR	F	117	7.331	60.416	-56.566	1.00	0.00	H
ATOM	6189	CZ	TYR	F	117	7.829	62.346	-55.712	1.00	0.00	C
ATOM	6190	OH	TYR	F	117	7.251	62.080	-54.510	1.00	0.00	O
ATOM	6191	HH	TYR	F	117	6.806	61.233	-54.534	1.00	0.00	H
ATOM	6192	N	ALA	F	118	6.220	62.942	-61.011	1.00	0.00	N
ATOM	6193	H	ALA	F	118	5.961	63.891	-60.759	1.00	0.00	H
ATOM	6194	CA	ALA	F	118	5.145	62.000	-61.355	1.00	0.00	C
ATOM	6195	HA	ALA	F	118	5.584	61.040	-61.628	1.00	0.00	H
ATOM	6196	C	ALA	F	118	4.293	62.416	-62.578	1.00	0.00	C
ATOM	6197	O	ALA	F	118	3.343	61.710	-62.916	1.00	0.00	O
ATOM	6198	CB	ALA	F	118	4.301	61.778	-60.093	1.00	0.00	C
ATOM	6199	1HB	ALA	F	118	3.851	62.722	-59.789	1.00	0.00	H
ATOM	6200	2HB	ALA	F	118	4.934	61.404	-59.288	1.00	0.00	H
ATOM	6201	3HB	ALA	F	118	3.513	61.053	-60.301	1.00	0.00	H
ATOM	6202	N	CYS	F	119	4.637	63.532	-63.230	1.00	0.00	N
ATOM	6203	H	CYS	F	119	5.450	64.033	-62.899	1.00	0.00	H
ATOM	6204	CA	CYS	F	119	3.974	64.058	-64.430	1.00	0.00	C
ATOM	6205	HA	CYS	F	119	2.902	64.139	-64.239	1.00	0.00	H
ATOM	6206	C	CYS	F	119	4.171	63.164	-65.681	1.00	0.00	C
ATOM	6207	O	CYS	F	119	5.148	62.415	-65.763	1.00	0.00	O
ATOM	6208	CB	CYS	F	119	4.566	65.460	-64.645	1.00	0.00	C
ATOM	6209	1HB	CYS	F	119	4.654	65.971	-63.684	1.00	0.00	H
ATOM	6210	2HB	CYS	F	119	5.563	65.366	-65.082	1.00	0.00	H
ATOM	6211	SG	CYS	F	119	3.507	66.452	-65.725	1.00	0.00	S
ATOM	6212	HG	CYS	F	119	4.366	67.457	-65.925	1.00	0.00	H
ATOM	6213	N	THR	F	120	3.300	63.287	-66.691	1.00	0.00	N
ATOM	6214	H	THR	F	120	2.482	63.870	-66.531	1.00	0.00	H
ATOM	6215	CA	THR	F	120	3.309	62.467	-67.925	1.00	0.00	C
ATOM	6216	HA	THR	F	120	4.220	61.874	-67.935	1.00	0.00	H
ATOM	6217	C	THR	F	120	3.274	63.306	-69.218	1.00	0.00	C
ATOM	6218	O	THR	F	120	2.650	64.368	-69.249	1.00	0.00	O
ATOM	6219	CB	THR	F	120	2.124	61.484	-67.946	1.00	0.00	C
ATOM	6220	HB	THR	F	120	2.175	60.901	-68.866	1.00	0.00	H
ATOM	6221	OG1	THR	F	120	0.889	62.160	-67.922	1.00	0.00	O
ATOM	6222	HG1	THR	F	120	0.824	62.627	-67.058	1.00	0.00	H
ATOM	6223	CG2	THR	F	120	2.137	60.512	-66.767	1.00	0.00	C
ATOM	6224	1HG2	THR	F	120	3.091	59.987	-66.737	1.00	0.00	H
ATOM	6225	2HG2	THR	F	120	1.332	59.789	-66.891	1.00	0.00	H
ATOM	6226	3HG2	THR	F	120	1.993	61.051	-65.829	1.00	0.00	H
ATOM	6227	N	PRO	F	121	3.910	62.861	-70.325	1.00	0.00	N
ATOM	6228	CA	PRO	F	121	3.900	63.612	-71.586	1.00	0.00	C
ATOM	6229	HA	PRO	F	121	4.293	64.613	-71.408	1.00	0.00	H
ATOM	6230	C	PRO	F	121	2.496	63.760	-72.193	1.00	0.00	C
ATOM	6231	O	PRO	F	121	2.200	64.769	-72.834	1.00	0.00	O
ATOM	6232	CB	PRO	F	121	4.848	62.875	-72.536	1.00	0.00	C
ATOM	6233	1HB	PRO	F	121	4.432	62.792	-73.539	1.00	0.00	H
ATOM	6234	2HB	PRO	F	121	5.798	63.407	-72.578	1.00	0.00	H
ATOM	6235	CG	PRO	F	121	5.049	61.488	-71.926	1.00	0.00	C
ATOM	6236	1HG	PRO	F	121	4.373	60.783	-72.405	1.00	0.00	H
ATOM	6237	2HG	PRO	F	121	6.073	61.138	-72.051	1.00	0.00	H
ATOM	6238	CD	PRO	F	121	4.685	61.634	-70.448	1.00	0.00	C
ATOM	6239	1HD	PRO	F	121	4.106	60.768	-70.126	1.00	0.00	H
ATOM	6240	2HD	PRO	F	121	5.593	61.716	-69.851	1.00	0.00	H
ATOM	6241	N	GLU	F	122	1.626	62.773	-71.989	1.00	0.00	N
ATOM	6242	H	GLU	F	122	1.955	61.922	-71.531	1.00	0.00	H
ATOM	6243	CA	GLU	F	122	0.233	62.782	-72.435	1.00	0.00	C
ATOM	6244	HA	GLU	F	122	0.194	63.002	-73.501	1.00	0.00	H
ATOM	6245	C	GLU	F	122	-0.584	63.873	-71.725	1.00	0.00	C
ATOM	6246	O	GLU	F	122	-1.267	64.644	-72.400	1.00	0.00	O
ATOM	6247	CB	GLU	F	122	-0.398	61.393	-72.217	1.00	0.00	C
ATOM	6248	1HB	GLU	F	122	-0.295	61.102	-71.170	1.00	0.00	H
ATOM	6249	2HB	GLU	F	122	-1.465	61.472	-72.431	1.00	0.00	H
ATOM	6250	CG	GLU	F	122	0.175	60.286	-73.127	1.00	0.00	C
ATOM	6251	1HG	GLU	F	122	-0.418	59.381	-72.978	1.00	0.00	H
ATOM	6252	2HG	GLU	F	122	0.047	60.597	-74.167	1.00	0.00	H
ATOM	6253	CD	GLU	F	122	1.654	59.951	-72.868	1.00	0.00	C
ATOM	6254	OE1	GLU	F	122	2.391	59.693	-73.852	1.00	0.00	O
ATOM	6255	OE2	GLU	F	122	2.087	60.026	-71.696	1.00	0.00	O
ATOM	6256	N	GLU	F	123	-0.485	64.007	-70.394	1.00	0.00	N
ATOM	6257	H	GLU	F	123	0.101	63.372	-69.861	1.00	0.00	H
ATOM	6258	CA	GLU	F	123	-1.193	65.085	-69.689	1.00	0.00	C
ATOM	6259	HA	GLU	F	123	-2.208	65.101	-70.082	1.00	0.00	H
ATOM	6260	C	GLU	F	123	-0.583	66.465	-69.984	1.00	0.00	C

ATOM	6261	O	GLU	F	123	-1.330	67.428	-70.159	1.00	0.00	O
ATOM	6262	CB	GLU	F	123	-1.348	64.795	-68.186	1.00	0.00	C
ATOM	6263	1HB	GLU	F	123	-2.255	65.292	-67.838	1.00	0.00	H
ATOM	6264	2HB	GLU	F	123	-1.498	63.722	-68.055	1.00	0.00	H
ATOM	6265	CG	GLU	F	123	-0.194	65.266	-67.296	1.00	0.00	C
ATOM	6266	1HG	GLU	F	123	0.753	65.049	-67.784	1.00	0.00	H
ATOM	6267	2HG	GLU	F	123	-0.259	66.347	-67.150	1.00	0.00	H
ATOM	6268	CD	GLU	F	123	-0.230	64.549	-65.949	1.00	0.00	C
ATOM	6269	OE1	GLU	F	123	0.631	63.662	-65.739	1.00	0.00	O
ATOM	6270	OE2	GLU	F	123	-1.096	64.871	-65.106	1.00	0.00	O
ATOM	6271	N	VAL	F	124	0.749	66.557	-70.118	1.00	0.00	N
ATOM	6272	H	VAL	F	124	1.296	65.720	-69.931	1.00	0.00	H
ATOM	6273	CA	VAL	F	124	1.472	67.784	-70.499	1.00	0.00	C
ATOM	6274	HA	VAL	F	124	1.266	68.554	-69.757	1.00	0.00	H
ATOM	6275	C	VAL	F	124	0.980	68.338	-71.834	1.00	0.00	C
ATOM	6276	O	VAL	F	124	0.631	69.519	-71.901	1.00	0.00	O
ATOM	6277	CB	VAL	F	124	2.997	67.533	-70.528	1.00	0.00	C
ATOM	6278	HB	VAL	F	124	3.191	66.590	-71.035	1.00	0.00	H
ATOM	6279	CG1	VAL	F	124	3.804	68.625	-71.242	1.00	0.00	C
ATOM	6280	1HG1	VAL	F	124	4.871	68.425	-71.141	1.00	0.00	H
ATOM	6281	2HG1	VAL	F	124	3.570	69.591	-70.799	1.00	0.00	H
ATOM	6282	3HG1	VAL	F	124	3.566	68.643	-72.306	1.00	0.00	H
ATOM	6283	CG2	VAL	F	124	3.552	67.455	-69.103	1.00	0.00	C
ATOM	6284	1HG2	VAL	F	124	4.582	67.099	-69.126	1.00	0.00	H
ATOM	6285	2HG2	VAL	F	124	2.959	66.756	-68.514	1.00	0.00	H
ATOM	6286	3HG2	VAL	F	124	3.515	68.433	-68.626	1.00	0.00	H
ATOM	6287	N	GLN	F	125	0.926	67.515	-72.892	1.00	0.00	N
ATOM	6288	H	GLN	F	125	1.215	66.546	-72.793	1.00	0.00	H
ATOM	6289	CA	GLN	F	125	0.505	68.019	-74.202	1.00	0.00	C
ATOM	6290	HA	GLN	F	125	1.096	68.918	-74.386	1.00	0.00	H
ATOM	6291	C	GLN	F	125	-0.955	68.504	-74.188	1.00	0.00	C
ATOM	6292	O	GLN	F	125	-1.205	69.609	-74.662	1.00	0.00	O
ATOM	6293	CB	GLN	F	125	0.869	67.059	-75.355	1.00	0.00	C
ATOM	6294	1HB	GLN	F	125	0.730	67.597	-76.295	1.00	0.00	H
ATOM	6295	2HB	GLN	F	125	1.931	66.827	-75.270	1.00	0.00	H
ATOM	6296	CG	GLN	F	125	0.097	65.735	-75.451	1.00	0.00	C
ATOM	6297	1HG	GLN	F	125	0.149	65.222	-74.494	1.00	0.00	H
ATOM	6298	2HG	GLN	F	125	-0.951	65.934	-75.677	1.00	0.00	H
ATOM	6299	CD	GLN	F	125	0.672	64.824	-76.543	1.00	0.00	C
ATOM	6300	OE1	GLN	F	125	0.530	65.058	-77.736	1.00	0.00	O
ATOM	6301	NE2	GLN	F	125	1.360	63.766	-76.173	1.00	0.00	N
ATOM	6302	1HE2	GLN	F	125	1.752	63.165	-76.906	1.00	0.00	H
ATOM	6303	2HE2	GLN	F	125	1.521	63.586	-75.201	1.00	0.00	H
ATOM	6304	N	GLN	F	126	-1.899	67.784	-73.560	1.00	0.00	N
ATOM	6305	H	GLN	F	126	-1.652	66.888	-73.154	1.00	0.00	H
ATOM	6306	CA	GLN	F	126	-3.300	68.245	-73.481	1.00	0.00	C
ATOM	6307	HA	GLN	F	126	-3.552	68.639	-74.465	1.00	0.00	H
ATOM	6308	C	GLN	F	126	-3.539	69.419	-72.506	1.00	0.00	C
ATOM	6309	O	GLN	F	126	-4.437	70.228	-72.750	1.00	0.00	O
ATOM	6310	CB	GLN	F	126	-4.270	67.067	-73.266	1.00	0.00	C
ATOM	6311	1HB	GLN	F	126	-5.294	67.423	-73.395	1.00	0.00	H
ATOM	6312	2HB	GLN	F	126	-4.082	66.342	-74.059	1.00	0.00	H
ATOM	6313	CG	GLN	F	126	-4.163	66.329	-71.925	1.00	0.00	C
ATOM	6314	1HG	GLN	F	126	-4.585	65.331	-72.044	1.00	0.00	H
ATOM	6315	2HG	GLN	F	126	-3.116	66.215	-71.671	1.00	0.00	H
ATOM	6316	CD	GLN	F	126	-4.905	67.003	-70.776	1.00	0.00	C
ATOM	6317	OE1	GLN	F	126	-6.119	67.078	-70.743	1.00	0.00	O
ATOM	6318	NE2	GLN	F	126	-4.210	67.494	-69.775	1.00	0.00	N
ATOM	6319	1HE2	GLN	F	126	-4.735	67.939	-69.042	1.00	0.00	H
ATOM	6320	2HE2	GLN	F	126	-3.199	67.490	-69.802	1.00	0.00	H
ATOM	6321	N	HIS	F	127	-2.712	69.592	-71.462	1.00	0.00	N
ATOM	6322	H	HIS	F	127	-1.995	68.898	-71.279	1.00	0.00	H
ATOM	6323	CA	HIS	F	127	-2.769	70.781	-70.597	1.00	0.00	C
ATOM	6324	HA	HIS	F	127	-3.774	70.878	-70.182	1.00	0.00	H
ATOM	6325	C	HIS	F	127	-2.495	72.040	-71.429	1.00	0.00	C
ATOM	6326	O	HIS	F	127	-3.292	72.974	-71.426	1.00	0.00	O
ATOM	6327	CB	HIS	F	127	-1.757	70.689	-69.433	1.00	0.00	C
ATOM	6328	1HB	HIS	F	127	-0.958	69.992	-69.684	1.00	0.00	H
ATOM	6329	2HB	HIS	F	127	-1.288	71.667	-69.319	1.00	0.00	H
ATOM	6330	CG	HIS	F	127	-2.331	70.330	-68.078	1.00	0.00	C
ATOM	6331	ND1	HIS	F	127	-2.750	71.219	-67.107	1.00	0.00	N
ATOM	6332	HD1	HIS	F	127	-2.750	72.229	-67.167	1.00	0.00	H
ATOM	6333	CD2	HIS	F	127	-2.379	69.084	-67.508	1.00	0.00	C
ATOM	6334	HD2	HIS	F	127	-2.053	68.163	-67.962	1.00	0.00	H
ATOM	6335	CE1	HIS	F	127	-3.075	70.523	-66.004	1.00	0.00	C
ATOM	6336	HE1	HIS	F	127	-3.429	70.957	-65.075	1.00	0.00	H
ATOM	6337	NE2	HIS	F	127	-2.834	69.216	-66.192	1.00	0.00	N

ATOM	6338	N	PHE	F	128	-1.397	72.059	-72.194	1.00	0.00	N
ATOM	6339	H	PHE	F	128	-0.764	71.267	-72.173	1.00	0.00	H
ATOM	6340	CA	PHE	F	128	-1.089	73.203	-73.055	1.00	0.00	C
ATOM	6341	HA	PHE	F	128	-1.252	74.112	-72.477	1.00	0.00	H
ATOM	6342	C	PHE	F	128	-2.041	73.317	-74.257	1.00	0.00	C
ATOM	6343	O	PHE	F	128	-2.425	74.436	-74.596	1.00	0.00	O
ATOM	6344	CB	PHE	F	128	0.388	73.169	-73.471	1.00	0.00	C
ATOM	6345	1HB	PHE	F	128	0.559	72.264	-74.055	1.00	0.00	H
ATOM	6346	2HB	PHE	F	128	0.586	74.024	-74.118	1.00	0.00	H
ATOM	6347	CG	PHE	F	128	1.382	73.212	-72.317	1.00	0.00	C
ATOM	6348	CD1	PHE	F	128	1.224	74.121	-71.248	1.00	0.00	C
ATOM	6349	HD1	PHE	F	128	0.386	74.801	-71.228	1.00	0.00	H
ATOM	6350	CD2	PHE	F	128	2.479	72.329	-72.309	1.00	0.00	C
ATOM	6351	HD2	PHE	F	128	2.599	71.610	-73.107	1.00	0.00	H
ATOM	6352	CE1	PHE	F	128	2.140	74.131	-70.180	1.00	0.00	C
ATOM	6353	HE1	PHE	F	128	1.985	74.796	-69.341	1.00	0.00	H
ATOM	6354	CE2	PHE	F	128	3.411	72.363	-71.259	1.00	0.00	C
ATOM	6355	HE2	PHE	F	128	4.245	71.680	-71.264	1.00	0.00	H
ATOM	6356	CZ	PHE	F	128	3.242	73.259	-70.191	1.00	0.00	C
ATOM	6357	HZ	PHE	F	128	3.946	73.264	-69.372	1.00	0.00	H
ATOM	6358	N	GLN	F	129	-2.500	72.198	-74.839	1.00	0.00	N
ATOM	6359	H	GLN	F	129	-2.116	71.304	-74.548	1.00	0.00	H
ATOM	6360	CA	GLN	F	129	-3.503	72.196	-75.918	1.00	0.00	C
ATOM	6361	HA	GLN	F	129	-3.096	72.791	-76.731	1.00	0.00	H
ATOM	6362	C	GLN	F	129	-4.832	72.853	-75.509	1.00	0.00	C
ATOM	6363	O	GLN	F	129	-5.507	73.439	-76.351	1.00	0.00	O
ATOM	6364	CB	GLN	F	129	-3.726	70.769	-76.454	1.00	0.00	C
ATOM	6365	1HB	GLN	F	129	-2.795	70.212	-76.409	1.00	0.00	H
ATOM	6366	2HB	GLN	F	129	-4.463	70.253	-75.836	1.00	0.00	H
ATOM	6367	CG	GLN	F	129	-4.177	70.755	-77.922	1.00	0.00	C
ATOM	6368	1HG	GLN	F	129	-5.170	71.199	-78.005	1.00	0.00	H
ATOM	6369	2HG	GLN	F	129	-3.484	71.342	-78.525	1.00	0.00	H
ATOM	6370	CD	GLN	F	129	-4.228	69.331	-78.467	1.00	0.00	C
ATOM	6371	OE1	GLN	F	129	-5.180	68.603	-78.260	1.00	0.00	O
ATOM	6372	NE2	GLN	F	129	-3.217	68.860	-79.166	1.00	0.00	N
ATOM	6373	1HE2	GLN	F	129	-3.322	67.918	-79.497	1.00	0.00	H
ATOM	6374	2HE2	GLN	F	129	-2.396	69.410	-79.392	1.00	0.00	H
ATOM	6375	N	SER	F	130	-5.167	72.829	-74.213	1.00	0.00	N
ATOM	6376	H	SER	F	130	-4.585	72.294	-73.582	1.00	0.00	H
ATOM	6377	CA	SER	F	130	-6.328	73.530	-73.639	1.00	0.00	C
ATOM	6378	HA	SER	F	130	-7.204	73.300	-74.248	1.00	0.00	H
ATOM	6379	C	SER	F	130	-6.191	75.065	-73.610	1.00	0.00	C
ATOM	6380	O	SER	F	130	-7.181	75.759	-73.385	1.00	0.00	O
ATOM	6381	CB	SER	F	130	-6.603	73.019	-72.220	1.00	0.00	C
ATOM	6382	1HB	SER	F	130	-5.766	73.261	-71.567	1.00	0.00	H
ATOM	6383	2HB	SER	F	130	-7.495	73.514	-71.833	1.00	0.00	H
ATOM	6384	OG	SER	F	130	-6.825	71.620	-72.216	1.00	0.00	O
ATOM	6385	HG	SER	F	130	-5.998	71.151	-72.421	1.00	0.00	H
ATOM	6386	N	CYS	F	131	-4.994	75.610	-73.866	1.00	0.00	N
ATOM	6387	H	CYS	F	131	-4.220	74.978	-74.021	1.00	0.00	H
ATOM	6388	CA	CYS	F	131	-4.709	77.053	-73.872	1.00	0.00	C
ATOM	6389	HA	CYS	F	131	-5.615	77.612	-73.633	1.00	0.00	H
ATOM	6390	C	CYS	F	131	-4.217	77.575	-75.235	1.00	0.00	C
ATOM	6391	O	CYS	F	131	-4.395	78.753	-75.544	1.00	0.00	O
ATOM	6392	CB	CYS	F	131	-3.656	77.359	-72.799	1.00	0.00	C
ATOM	6393	1HB	CYS	F	131	-2.794	76.703	-72.928	1.00	0.00	H
ATOM	6394	2HB	CYS	F	131	-3.329	78.393	-72.911	1.00	0.00	H
ATOM	6395	SG	CYS	F	131	-4.334	77.152	-71.130	1.00	0.00	S
ATOM	6396	HG	CYS	F	131	-3.220	77.551	-70.492	1.00	0.00	H
ATOM	6397	N	GLY	F	132	-3.612	76.722	-76.065	1.00	0.00	N
ATOM	6398	H	GLY	F	132	-3.422	75.779	-75.737	1.00	0.00	H
ATOM	6399	CA	GLY	F	132	-3.228	77.036	-77.440	1.00	0.00	C
ATOM	6400	1HA	GLY	F	132	-4.075	77.495	-77.951	1.00	0.00	H
ATOM	6401	2HA	GLY	F	132	-2.396	77.740	-77.439	1.00	0.00	H
ATOM	6402	C	GLY	F	132	-2.806	75.779	-78.196	1.00	0.00	C
ATOM	6403	O	GLY	F	132	-2.277	74.845	-77.600	1.00	0.00	O
ATOM	6404	N	THR	F	133	-3.043	75.735	-79.510	1.00	0.00	N
ATOM	6405	H	THR	F	133	-3.471	76.529	-79.956	1.00	0.00	H
ATOM	6406	CA	THR	F	133	-2.752	74.536	-80.315	1.00	0.00	C
ATOM	6407	HA	THR	F	133	-3.342	73.723	-79.888	1.00	0.00	H
ATOM	6408	C	THR	F	133	-1.278	74.120	-80.214	1.00	0.00	C
ATOM	6409	O	THR	F	133	-0.373	74.937	-80.384	1.00	0.00	O
ATOM	6410	CB	THR	F	133	-3.232	74.688	-81.766	1.00	0.00	C
ATOM	6411	HB	THR	F	133	-4.299	74.915	-81.740	1.00	0.00	H
ATOM	6412	OG1	THR	F	133	-3.064	73.475	-82.448	1.00	0.00	O
ATOM	6413	HG1	THR	F	133	-2.228	73.511	-82.928	1.00	0.00	H
ATOM	6414	CG2	THR	F	133	-2.538	75.768	-82.591	1.00	0.00	C

ATOM	6415	1HG2	THR	F	133	-3.030	75.853	-83.560	1.00	0.00	H
ATOM	6416	2HG2	THR	F	133	-1.496	75.499	-82.746	1.00	0.00	H
ATOM	6417	3HG2	THR	F	133	-2.595	76.727	-82.079	1.00	0.00	H
ATOM	6418	N	VAL	F	134	-1.048	72.840	-79.917	1.00	0.00	N
ATOM	6419	H	VAL	F	134	-1.844	72.223	-79.842	1.00	0.00	H
ATOM	6420	CA	VAL	F	134	0.267	72.235	-79.662	1.00	0.00	C
ATOM	6421	HA	VAL	F	134	1.021	72.791	-80.213	1.00	0.00	H
ATOM	6422	C	VAL	F	134	0.252	70.794	-80.183	1.00	0.00	C
ATOM	6423	O	VAL	F	134	-0.793	70.142	-80.151	1.00	0.00	O
ATOM	6424	CB	VAL	F	134	0.623	72.338	-78.165	1.00	0.00	C
ATOM	6425	HB	VAL	F	134	0.388	73.349	-77.830	1.00	0.00	H
ATOM	6426	CG1	VAL	F	134	-0.157	71.362	-77.285	1.00	0.00	C
ATOM	6427	1HG1	VAL	F	134	-1.217	71.488	-77.477	1.00	0.00	H
ATOM	6428	2HG1	VAL	F	134	0.036	71.574	-76.236	1.00	0.00	H
ATOM	6429	3HG1	VAL	F	134	0.126	70.329	-77.494	1.00	0.00	H
ATOM	6430	CG2	VAL	F	134	2.115	72.128	-77.916	1.00	0.00	C
ATOM	6431	1HG2	VAL	F	134	2.687	72.868	-78.475	1.00	0.00	H
ATOM	6432	2HG2	VAL	F	134	2.415	71.125	-78.220	1.00	0.00	H
ATOM	6433	3HG2	VAL	F	134	2.320	72.260	-76.855	1.00	0.00	H
ATOM	6434	N	ASN	F	135	1.381	70.328	-80.719	1.00	0.00	N
ATOM	6435	H	ASN	F	135	2.197	70.934	-80.692	1.00	0.00	H
ATOM	6436	CA	ASN	F	135	1.436	69.178	-81.630	1.00	0.00	C
ATOM	6437	HA	ASN	F	135	0.432	68.897	-81.958	1.00	0.00	H
ATOM	6438	C	ASN	F	135	2.055	67.933	-80.975	1.00	0.00	C
ATOM	6439	O	ASN	F	135	1.446	66.865	-80.953	1.00	0.00	O
ATOM	6440	CB	ASN	F	135	2.239	69.651	-82.859	1.00	0.00	C
ATOM	6441	1HB	ASN	F	135	1.687	70.424	-83.387	1.00	0.00	H
ATOM	6442	2HB	ASN	F	135	3.178	70.085	-82.518	1.00	0.00	H
ATOM	6443	CG	ASN	F	135	2.571	68.573	-83.874	1.00	0.00	C
ATOM	6444	OD1	ASN	F	135	1.859	67.608	-84.068	1.00	0.00	O
ATOM	6445	ND2	ASN	F	135	3.674	68.723	-84.563	1.00	0.00	N
ATOM	6446	1HD2	ASN	F	135	3.886	68.030	-85.251	1.00	0.00	H
ATOM	6447	2HD2	ASN	F	135	4.224	69.580	-84.438	1.00	0.00	H
ATOM	6448	N	ARG	F	136	3.257	68.062	-80.406	1.00	0.00	N
ATOM	6449	H	ARG	F	136	3.680	68.980	-80.390	1.00	0.00	H
ATOM	6450	CA	ARG	F	136	4.033	66.934	-79.867	1.00	0.00	C
ATOM	6451	HA	ARG	F	136	3.337	66.176	-79.506	1.00	0.00	H
ATOM	6452	C	ARG	F	136	4.862	67.339	-78.649	1.00	0.00	C
ATOM	6453	O	ARG	F	136	4.908	68.517	-78.295	1.00	0.00	O
ATOM	6454	CB	ARG	F	136	4.904	66.342	-80.998	1.00	0.00	C
ATOM	6455	1HB	ARG	F	136	4.506	66.627	-81.975	1.00	0.00	H
ATOM	6456	2HB	ARG	F	136	5.908	66.765	-80.928	1.00	0.00	H
ATOM	6457	CG	ARG	F	136	5.007	64.807	-80.961	1.00	0.00	C
ATOM	6458	1HG	ARG	F	136	5.933	64.523	-81.463	1.00	0.00	H
ATOM	6459	2HG	ARG	F	136	5.068	64.446	-79.935	1.00	0.00	H
ATOM	6460	CD	ARG	F	136	3.864	64.082	-81.685	1.00	0.00	C
ATOM	6461	1HD	ARG	F	136	3.819	64.408	-82.726	1.00	0.00	H
ATOM	6462	2HD	ARG	F	136	4.130	63.028	-81.665	1.00	0.00	H
ATOM	6463	NE	ARG	F	136	2.542	64.252	-81.052	1.00	0.00	N
ATOM	6464	HE	ARG	F	136	2.279	65.176	-80.733	1.00	0.00	H
ATOM	6465	CZ	ARG	F	136	1.576	63.354	-80.998	1.00	0.00	C
ATOM	6466	NH1	ARG	F	136	1.599	62.254	-81.700	1.00	0.00	N
ATOM	6467	1HH1	ARG	F	136	2.439	62.048	-82.233	1.00	0.00	H
ATOM	6468	2HH1	ARG	F	136	0.843	61.597	-81.685	1.00	0.00	H
ATOM	6469	NH2	ARG	F	136	0.543	63.562	-80.232	1.00	0.00	N
ATOM	6470	1HH2	ARG	F	136	0.570	64.321	-79.555	1.00	0.00	H
ATOM	6471	2HH2	ARG	F	136	-0.169	62.865	-80.163	1.00	0.00	H
ATOM	6472	N	VAL	F	137	5.491	66.349	-78.017	1.00	0.00	N
ATOM	6473	H	VAL	F	137	5.439	65.424	-78.418	1.00	0.00	H
ATOM	6474	CA	VAL	F	137	6.153	66.441	-76.709	1.00	0.00	C
ATOM	6475	HA	VAL	F	137	6.519	67.454	-76.582	1.00	0.00	H
ATOM	6476	C	VAL	F	137	7.342	65.476	-76.630	1.00	0.00	C
ATOM	6477	O	VAL	F	137	7.293	64.404	-77.229	1.00	0.00	O
ATOM	6478	CB	VAL	F	137	5.111	66.135	-75.603	1.00	0.00	C
ATOM	6479	HB	VAL	F	137	4.283	66.830	-75.736	1.00	0.00	H
ATOM	6480	CG1	VAL	F	137	4.524	64.720	-75.701	1.00	0.00	C
ATOM	6481	1HG1	VAL	F	137	5.296	63.975	-75.519	1.00	0.00	H
ATOM	6482	2HG1	VAL	F	137	4.091	64.550	-76.687	1.00	0.00	H
ATOM	6483	3HG1	VAL	F	137	3.734	64.607	-74.962	1.00	0.00	H
ATOM	6484	CG2	VAL	F	137	5.622	66.322	-74.168	1.00	0.00	C
ATOM	6485	1HG2	VAL	F	137	4.795	66.198	-73.469	1.00	0.00	H
ATOM	6486	2HG2	VAL	F	137	6.024	67.325	-74.043	1.00	0.00	H
ATOM	6487	3HG2	VAL	F	137	6.396	65.592	-73.931	1.00	0.00	H
ATOM	6488	N	THR	F	138	8.354	65.805	-75.824	1.00	0.00	N
ATOM	6489	H	THR	F	138	8.324	66.713	-75.374	1.00	0.00	H
ATOM	6490	CA	THR	F	138	9.380	64.850	-75.345	1.00	0.00	C
ATOM	6491	HA	THR	F	138	8.954	63.849	-75.400	1.00	0.00	H

ATOM	6492	C	THR	F	138	9.698	65.130	-73.874	1.00	0.00	C
ATOM	6493	O	THR	F	138	9.444	66.235	-73.386	1.00	0.00	O
ATOM	6494	CB	THR	F	138	10.694	64.844	-76.163	1.00	0.00	C
ATOM	6495	HB	THR	F	138	11.434	65.480	-75.675	1.00	0.00	H
ATOM	6496	OG1	THR	F	138	10.524	65.291	-77.486	1.00	0.00	O
ATOM	6497	HG1	THR	F	138	11.339	65.095	-77.952	1.00	0.00	H
ATOM	6498	CG2	THR	F	138	11.255	63.429	-76.317	1.00	0.00	C
ATOM	6499	1HG2	THR	F	138	11.390	62.963	-75.343	1.00	0.00	H
ATOM	6500	2HG2	THR	F	138	12.231	63.471	-76.802	1.00	0.00	H
ATOM	6501	3HG2	THR	F	138	10.576	62.817	-76.913	1.00	0.00	H
ATOM	6502	N	ILE	F	139	10.184	64.108	-73.166	1.00	0.00	N
ATOM	6503	H	ILE	F	139	10.486	63.285	-73.668	1.00	0.00	H
ATOM	6504	CA	ILE	F	139	10.456	64.078	-71.723	1.00	0.00	C
ATOM	6505	HA	ILE	F	139	11.035	64.967	-71.462	1.00	0.00	H
ATOM	6506	C	ILE	F	139	11.298	62.829	-71.411	1.00	0.00	C
ATOM	6507	O	ILE	F	139	11.058	61.751	-71.967	1.00	0.00	O
ATOM	6508	CB	ILE	F	139	9.123	64.084	-70.927	1.00	0.00	C
ATOM	6509	HB	ILE	F	139	8.560	64.961	-71.250	1.00	0.00	H
ATOM	6510	CG1	ILE	F	139	9.337	64.229	-69.404	1.00	0.00	C
ATOM	6511	1HG1	ILE	F	139	9.815	63.332	-69.006	1.00	0.00	H
ATOM	6512	2HG1	ILE	F	139	9.999	65.072	-69.222	1.00	0.00	H
ATOM	6513	CG2	ILE	F	139	8.253	62.850	-71.224	1.00	0.00	C
ATOM	6514	1HG2	ILE	F	139	7.264	62.996	-70.800	1.00	0.00	H
ATOM	6515	2HG2	ILE	F	139	8.696	61.954	-70.787	1.00	0.00	H
ATOM	6516	3HG2	ILE	F	139	8.148	62.705	-72.298	1.00	0.00	H
ATOM	6517	CD1	ILE	F	139	8.034	64.482	-68.628	1.00	0.00	C
ATOM	6518	1HD1	ILE	F	139	7.496	65.324	-69.064	1.00	0.00	H
ATOM	6519	2HD1	ILE	F	139	8.264	64.716	-67.591	1.00	0.00	H
ATOM	6520	3HD1	ILE	F	139	7.400	63.596	-68.641	1.00	0.00	H
ATOM	6521	N	LEU	F	140	12.245	62.946	-70.478	1.00	0.00	N
ATOM	6522	H	LEU	F	140	12.358	63.847	-70.037	1.00	0.00	H
ATOM	6523	CA	LEU	F	140	13.119	61.844	-70.051	1.00	0.00	C
ATOM	6524	HA	LEU	F	140	12.561	60.916	-70.167	1.00	0.00	H
ATOM	6525	C	LEU	F	140	13.444	61.972	-68.552	1.00	0.00	C
ATOM	6526	O	LEU	F	140	12.628	62.477	-67.782	1.00	0.00	O
ATOM	6527	CB	LEU	F	140	14.354	61.797	-70.983	1.00	0.00	C
ATOM	6528	1HB	LEU	F	140	14.045	62.107	-71.980	1.00	0.00	H
ATOM	6529	2HB	LEU	F	140	15.086	62.524	-70.633	1.00	0.00	H
ATOM	6530	CG	LEU	F	140	15.035	60.426	-71.156	1.00	0.00	C
ATOM	6531	HG	LEU	F	140	15.311	60.023	-70.183	1.00	0.00	H
ATOM	6532	CD1	LEU	F	140	14.145	59.408	-71.871	1.00	0.00	C
ATOM	6533	1HD1	LEU	F	140	13.268	59.177	-71.267	1.00	0.00	H
ATOM	6534	2HD1	LEU	F	140	14.697	58.487	-72.051	1.00	0.00	H
ATOM	6535	3HD1	LEU	F	140	13.816	59.822	-72.826	1.00	0.00	H
ATOM	6536	CD2	LEU	F	140	16.312	60.594	-71.977	1.00	0.00	C
ATOM	6537	1HD2	LEU	F	140	16.062	60.984	-72.967	1.00	0.00	H
ATOM	6538	2HD2	LEU	F	140	16.818	59.636	-72.092	1.00	0.00	H
ATOM	6539	3HD2	LEU	F	140	16.984	61.299	-71.487	1.00	0.00	H
ATOM	6540	N	THR	F	141	14.592	61.462	-68.090	1.00	0.00	N
ATOM	6541	H	THR	F	141	15.249	61.087	-68.755	1.00	0.00	H
ATOM	6542	CA	THR	F	141	14.936	61.412	-66.660	1.00	0.00	C
ATOM	6543	HA	THR	F	141	14.708	62.385	-66.222	1.00	0.00	H
ATOM	6544	C	THR	F	141	16.430	61.141	-66.427	1.00	0.00	C
ATOM	6545	O	THR	F	141	16.947	60.098	-66.839	1.00	0.00	O
ATOM	6546	CB	THR	F	141	14.038	60.342	-65.990	1.00	0.00	C
ATOM	6547	HB	THR	F	141	13.781	59.586	-66.735	1.00	0.00	H
ATOM	6548	OG1	THR	F	141	12.850	60.952	-65.556	1.00	0.00	O
ATOM	6549	HG1	THR	F	141	12.551	61.537	-66.280	1.00	0.00	H
ATOM	6550	CG2	THR	F	141	14.567	59.597	-64.766	1.00	0.00	C
ATOM	6551	1HG2	THR	F	141	15.361	58.917	-65.062	1.00	0.00	H
ATOM	6552	2HG2	THR	F	141	13.760	59.013	-64.322	1.00	0.00	H
ATOM	6553	3HG2	THR	F	141	14.938	60.304	-64.032	1.00	0.00	H
ATOM	6554	N	ASP	F	142	17.108	62.043	-65.710	1.00	0.00	N
ATOM	6555	H	ASP	F	142	16.650	62.950	-65.580	1.00	0.00	H
ATOM	6556	CA	ASP	F	142	18.423	61.899	-65.055	1.00	0.00	C
ATOM	6557	HA	ASP	F	142	19.177	61.713	-65.821	1.00	0.00	H
ATOM	6558	C	ASP	F	142	18.478	60.704	-64.059	1.00	0.00	C
ATOM	6559	O	ASP	F	142	17.484	60.016	-63.820	1.00	0.00	O
ATOM	6560	CB	ASP	F	142	18.764	63.266	-64.405	1.00	0.00	C
ATOM	6561	1HB	ASP	F	142	19.115	63.949	-65.180	1.00	0.00	H
ATOM	6562	2HB	ASP	F	142	17.859	63.694	-63.977	1.00	0.00	H
ATOM	6563	CG	ASP	F	142	19.812	63.176	-63.297	1.00	0.00	C
ATOM	6564	OD1	ASP	F	142	20.950	62.767	-63.607	1.00	0.00	O
ATOM	6565	OD2	ASP	F	142	19.415	63.207	-62.109	1.00	0.00	O
ATOM	6566	N	LYS	F	143	19.643	60.378	-63.488	1.00	0.00	N
ATOM	6567	H	LYS	F	143	20.427	61.009	-63.673	1.00	0.00	H
ATOM	6568	CA	LYS	F	143	19.804	59.383	-62.411	1.00	0.00	C

ATOM	6569	HA	LYS	F	143	18.867	59.344	-61.855	1.00	0.00	H
ATOM	6570	C	LYS	F	143	20.826	59.785	-61.324	1.00	0.00	C
ATOM	6571	O	LYS	F	143	21.244	58.919	-60.561	1.00	0.00	O
ATOM	6572	CB	LYS	F	143	20.061	57.996	-63.052	1.00	0.00	C
ATOM	6573	1HB	LYS	F	143	20.304	58.126	-64.107	1.00	0.00	H
ATOM	6574	2HB	LYS	F	143	20.930	57.515	-62.600	1.00	0.00	H
ATOM	6575	CG	LYS	F	143	18.851	57.047	-62.900	1.00	0.00	C
ATOM	6576	1HG	LYS	F	143	19.007	56.454	-61.998	1.00	0.00	H
ATOM	6577	2HG	LYS	F	143	17.928	57.610	-62.758	1.00	0.00	H
ATOM	6578	CD	LYS	F	143	18.658	56.091	-64.095	1.00	0.00	C
ATOM	6579	1HD	LYS	F	143	19.622	55.873	-64.557	1.00	0.00	H
ATOM	6580	2HD	LYS	F	143	18.258	55.150	-63.714	1.00	0.00	H
ATOM	6581	CE	LYS	F	143	17.668	56.617	-65.153	1.00	0.00	C
ATOM	6582	1HE	LYS	F	143	17.628	55.908	-65.984	1.00	0.00	H
ATOM	6583	2HE	LYS	F	143	16.671	56.663	-64.704	1.00	0.00	H
ATOM	6584	NZ	LYS	F	143	18.033	57.961	-65.653	1.00	0.00	N
ATOM	6585	1HZ	LYS	F	143	17.384	58.324	-66.352	1.00	0.00	H
ATOM	6586	2HZ	LYS	F	143	18.959	57.999	-66.049	1.00	0.00	H
ATOM	6587	3HZ	LYS	F	143	17.964	58.648	-64.903	1.00	0.00	H
ATOM	6588	N	PHE	F	144	21.209	61.063	-61.225	1.00	0.00	N
ATOM	6589	H	PHE	F	144	20.836	61.749	-61.881	1.00	0.00	H
ATOM	6590	CA	PHE	F	144	22.109	61.581	-60.185	1.00	0.00	C
ATOM	6591	HA	PHE	F	144	22.927	60.872	-60.063	1.00	0.00	H
ATOM	6592	C	PHE	F	144	21.432	61.717	-58.806	1.00	0.00	C
ATOM	6593	O	PHE	F	144	21.963	61.187	-57.830	1.00	0.00	O
ATOM	6594	CB	PHE	F	144	22.703	62.915	-60.665	1.00	0.00	C
ATOM	6595	1HB	PHE	F	144	23.185	62.753	-61.630	1.00	0.00	H
ATOM	6596	2HB	PHE	F	144	21.890	63.623	-60.828	1.00	0.00	H
ATOM	6597	CG	PHE	F	144	23.730	63.538	-59.733	1.00	0.00	C
ATOM	6598	CD1	PHE	F	144	24.863	62.806	-59.326	1.00	0.00	C
ATOM	6599	HD1	PHE	F	144	25.005	61.792	-59.670	1.00	0.00	H
ATOM	6600	CD2	PHE	F	144	23.573	64.867	-59.295	1.00	0.00	C
ATOM	6601	HD2	PHE	F	144	22.720	65.446	-59.618	1.00	0.00	H
ATOM	6602	CE1	PHE	F	144	25.818	63.390	-58.473	1.00	0.00	C
ATOM	6603	HE1	PHE	F	144	26.683	62.823	-58.162	1.00	0.00	H
ATOM	6604	CE2	PHE	F	144	24.528	65.453	-58.445	1.00	0.00	C
ATOM	6605	HE2	PHE	F	144	24.399	66.474	-58.115	1.00	0.00	H
ATOM	6606	CZ	PHE	F	144	25.649	64.713	-58.030	1.00	0.00	C
ATOM	6607	HZ	PHE	F	144	26.385	65.165	-57.380	1.00	0.00	H
ATOM	6608	N	GLY	F	145	20.242	62.332	-58.703	1.00	0.00	N
ATOM	6609	H	GLY	F	145	19.884	62.820	-59.516	1.00	0.00	H
ATOM	6610	CA	GLY	F	145	19.465	62.276	-57.446	1.00	0.00	C
ATOM	6611	1HA	GLY	F	145	19.118	61.252	-57.309	1.00	0.00	H
ATOM	6612	2HA	GLY	F	145	20.146	62.499	-56.624	1.00	0.00	H
ATOM	6613	C	GLY	F	145	18.251	63.200	-57.258	1.00	0.00	C
ATOM	6614	O	GLY	F	145	17.424	62.920	-56.392	1.00	0.00	O
ATOM	6615	N	GLN	F	146	18.129	64.293	-58.015	1.00	0.00	N
ATOM	6616	H	GLN	F	146	18.882	64.499	-58.663	1.00	0.00	H
ATOM	6617	CA	GLN	F	146	17.033	65.280	-57.889	1.00	0.00	C
ATOM	6618	HA	GLN	F	146	16.952	65.570	-56.841	1.00	0.00	H
ATOM	6619	C	GLN	F	146	15.661	64.714	-58.342	1.00	0.00	C
ATOM	6620	O	GLN	F	146	15.635	63.632	-58.939	1.00	0.00	O
ATOM	6621	CB	GLN	F	146	17.379	66.539	-58.717	1.00	0.00	C
ATOM	6622	1HB	GLN	F	146	17.158	66.349	-59.769	1.00	0.00	H
ATOM	6623	2HB	GLN	F	146	16.738	67.359	-58.413	1.00	0.00	H
ATOM	6624	CG	GLN	F	146	18.827	67.036	-58.591	1.00	0.00	C
ATOM	6625	1HG	GLN	F	146	18.843	68.124	-58.649	1.00	0.00	H
ATOM	6626	2HG	GLN	F	146	19.254	66.754	-57.629	1.00	0.00	H
ATOM	6627	CD	GLN	F	146	19.666	66.469	-59.726	1.00	0.00	C
ATOM	6628	OE1	GLN	F	146	20.209	65.380	-59.620	1.00	0.00	O
ATOM	6629	NE2	GLN	F	146	19.708	67.129	-60.856	1.00	0.00	N
ATOM	6630	1HE2	GLN	F	146	20.200	66.733	-61.634	1.00	0.00	H
ATOM	6631	2HE2	GLN	F	146	19.136	67.981	-60.938	1.00	0.00	H
ATOM	6632	N	PRO	F	147	14.529	65.442	-58.188	1.00	0.00	N
ATOM	6633	CA	PRO	F	147	13.321	65.243	-59.009	1.00	0.00	C
ATOM	6634	HA	PRO	F	147	12.890	64.269	-58.776	1.00	0.00	H
ATOM	6635	C	PRO	F	147	13.593	65.273	-60.530	1.00	0.00	C
ATOM	6636	O	PRO	F	147	14.725	65.468	-60.967	1.00	0.00	O
ATOM	6637	CB	PRO	F	147	12.329	66.333	-58.568	1.00	0.00	C
ATOM	6638	1HB	PRO	F	147	11.748	66.742	-59.396	1.00	0.00	H
ATOM	6639	2HB	PRO	F	147	11.661	65.926	-57.808	1.00	0.00	H
ATOM	6640	CG	PRO	F	147	13.216	67.402	-57.935	1.00	0.00	C
ATOM	6641	1HG	PRO	F	147	13.645	68.031	-58.715	1.00	0.00	H
ATOM	6642	2HG	PRO	F	147	12.674	68.006	-57.206	1.00	0.00	H
ATOM	6643	CD	PRO	F	147	14.311	66.564	-57.282	1.00	0.00	C
ATOM	6644	1HD	PRO	F	147	15.195	67.167	-57.104	1.00	0.00	H
ATOM	6645	2HD	PRO	F	147	13.949	66.180	-56.328	1.00	0.00	H



ATOM	6646	N	LYS	F	148	12.563	65.012	-61.345	1.00	0.00	N
ATOM	6647	H	LYS	F	148	11.637	64.959	-60.943	1.00	0.00	H
ATOM	6648	CA	LYS	F	148	12.619	64.936	-62.819	1.00	0.00	C
ATOM	6649	HA	LYS	F	148	13.386	65.607	-63.207	1.00	0.00	H
ATOM	6650	C	LYS	F	148	11.301	65.401	-63.437	1.00	0.00	C
ATOM	6651	O	LYS	F	148	10.315	65.563	-62.724	1.00	0.00	O
ATOM	6652	CB	LYS	F	148	12.939	63.501	-63.294	1.00	0.00	C
ATOM	6653	1HB	LYS	F	148	12.344	62.766	-62.748	1.00	0.00	H
ATOM	6654	2HB	LYS	F	148	12.674	63.415	-64.349	1.00	0.00	H
ATOM	6655	CG	LYS	F	148	14.434	63.178	-63.202	1.00	0.00	C
ATOM	6656	1HG	LYS	F	148	14.713	62.577	-64.060	1.00	0.00	H
ATOM	6657	2HG	LYS	F	148	14.995	64.108	-63.275	1.00	0.00	H
ATOM	6658	CD	LYS	F	148	14.835	62.400	-61.943	1.00	0.00	C
ATOM	6659	1HD	LYS	F	148	14.366	62.820	-61.057	1.00	0.00	H
ATOM	6660	2HD	LYS	F	148	14.496	61.369	-62.038	1.00	0.00	H
ATOM	6661	CE	LYS	F	148	16.357	62.425	-61.788	1.00	0.00	C
ATOM	6662	1HE	LYS	F	148	16.645	61.758	-60.972	1.00	0.00	H
ATOM	6663	2HE	LYS	F	148	16.804	62.056	-62.713	1.00	0.00	H
ATOM	6664	NZ	LYS	F	148	16.853	63.791	-61.504	1.00	0.00	N
ATOM	6665	1HZ	LYS	F	148	16.489	64.110	-60.613	1.00	0.00	H
ATOM	6666	2HZ	LYS	F	148	16.511	64.450	-62.193	1.00	0.00	H
ATOM	6667	3HZ	LYS	F	148	17.876	63.809	-61.516	1.00	0.00	H
ATOM	6668	N	GLY	F	149	11.304	65.596	-64.750	1.00	0.00	N
ATOM	6669	H	GLY	F	149	12.188	65.453	-65.238	1.00	0.00	H
ATOM	6670	CA	GLY	F	149	10.131	65.924	-65.562	1.00	0.00	C
ATOM	6671	1HA	GLY	F	149	9.863	65.037	-66.134	1.00	0.00	H
ATOM	6672	2HA	GLY	F	149	9.287	66.194	-64.927	1.00	0.00	H
ATOM	6673	C	GLY	F	149	10.375	67.063	-66.555	1.00	0.00	C
ATOM	6674	O	GLY	F	149	9.418	67.572	-67.131	1.00	0.00	O
ATOM	6675	N	PHE	F	150	11.629	67.497	-66.717	1.00	0.00	N
ATOM	6676	H	PHE	F	150	12.379	66.953	-66.300	1.00	0.00	H
ATOM	6677	CA	PHE	F	150	12.040	68.488	-67.710	1.00	0.00	C
ATOM	6678	HA	PHE	F	150	11.506	69.409	-67.503	1.00	0.00	H
ATOM	6679	C	PHE	F	150	11.656	67.973	-69.107	1.00	0.00	C
ATOM	6680	O	PHE	F	150	11.814	66.792	-69.413	1.00	0.00	O
ATOM	6681	CB	PHE	F	150	13.543	68.726	-67.501	1.00	0.00	C
ATOM	6682	1HB	PHE	F	150	13.682	68.925	-66.443	1.00	0.00	H
ATOM	6683	2HB	PHE	F	150	14.042	67.791	-67.716	1.00	0.00	H
ATOM	6684	CG	PHE	F	150	14.313	69.823	-68.218	1.00	0.00	C
ATOM	6685	CD1	PHE	F	150	15.713	69.691	-68.299	1.00	0.00	C
ATOM	6686	HD1	PHE	F	150	16.182	68.774	-67.968	1.00	0.00	H
ATOM	6687	CD2	PHE	F	150	13.711	71.003	-68.689	1.00	0.00	C
ATOM	6688	HD2	PHE	F	150	12.646	71.123	-68.639	1.00	0.00	H
ATOM	6689	CE1	PHE	F	150	16.510	70.742	-68.781	1.00	0.00	C
ATOM	6690	HE1	PHE	F	150	17.583	70.626	-68.820	1.00	0.00	H
ATOM	6691	CE2	PHE	F	150	14.506	72.038	-69.213	1.00	0.00	C
ATOM	6692	HE2	PHE	F	150	14.046	72.931	-69.588	1.00	0.00	H
ATOM	6693	CZ	PHE	F	150	15.905	71.921	-69.239	1.00	0.00	C
ATOM	6694	HZ	PHE	F	150	16.513	72.726	-69.625	1.00	0.00	H
ATOM	6695	N	ALA	F	151	11.049	68.830	-69.920	1.00	0.00	N
ATOM	6696	H	ALA	F	151	10.880	69.766	-69.575	1.00	0.00	H
ATOM	6697	CA	ALA	F	151	10.327	68.416	-71.122	1.00	0.00	C
ATOM	6698	HA	ALA	F	151	10.806	67.538	-71.562	1.00	0.00	H
ATOM	6699	C	ALA	F	151	10.319	69.525	-72.183	1.00	0.00	C
ATOM	6700	O	ALA	F	151	10.823	70.630	-71.951	1.00	0.00	O
ATOM	6701	CB	ALA	F	151	8.899	68.038	-70.686	1.00	0.00	C
ATOM	6702	1HB	ALA	F	151	8.310	67.711	-71.542	1.00	0.00	H
ATOM	6703	2HB	ALA	F	151	8.408	68.888	-70.216	1.00	0.00	H
ATOM	6704	3HB	ALA	F	151	8.943	67.221	-69.966	1.00	0.00	H
ATOM	6705	N	TYR	F	152	9.715	69.253	-73.340	1.00	0.00	N
ATOM	6706	H	TYR	F	152	9.354	68.312	-73.478	1.00	0.00	H
ATOM	6707	CA	TYR	F	152	9.503	70.231	-74.413	1.00	0.00	C
ATOM	6708	HA	TYR	F	152	9.437	71.215	-73.959	1.00	0.00	H
ATOM	6709	C	TYR	F	152	8.175	69.987	-75.152	1.00	0.00	C
ATOM	6710	O	TYR	F	152	7.691	68.857	-75.152	1.00	0.00	O
ATOM	6711	CB	TYR	F	152	10.715	70.205	-75.372	1.00	0.00	C
ATOM	6712	1HB	TYR	F	152	11.203	71.179	-75.326	1.00	0.00	H
ATOM	6713	2HB	TYR	F	152	11.450	69.475	-75.026	1.00	0.00	H
ATOM	6714	CG	TYR	F	152	10.392	69.884	-76.821	1.00	0.00	C
ATOM	6715	CD1	TYR	F	152	10.312	70.917	-77.770	1.00	0.00	C
ATOM	6716	HD1	TYR	F	152	10.501	71.933	-77.457	1.00	0.00	H
ATOM	6717	CD2	TYR	F	152	10.125	68.557	-77.208	1.00	0.00	C
ATOM	6718	HD2	TYR	F	152	10.184	67.762	-76.479	1.00	0.00	H
ATOM	6719	CE1	TYR	F	152	9.986	70.619	-79.110	1.00	0.00	C
ATOM	6720	HE1	TYR	F	152	9.957	71.393	-79.858	1.00	0.00	H
ATOM	6721	CE2	TYR	F	152	9.764	68.263	-78.536	1.00	0.00	C
ATOM	6722	HE2	TYR	F	152	9.538	67.249	-78.831	1.00	0.00	H

ATOM	6723	CZ	TYR	F	152	9.700	69.292	-79.493	1.00	0.00	C
ATOM	6724	OH	TYR	F	152	9.368	69.008	-80.779	1.00	0.00	O
ATOM	6725	HH	TYR	F	152	9.348	69.788	-81.335	1.00	0.00	H
ATOM	6726	N	VAL	F	153	7.626	71.018	-75.814	1.00	0.00	N
ATOM	6727	H	VAL	F	153	8.106	71.910	-75.763	1.00	0.00	H
ATOM	6728	CA	VAL	F	153	6.499	70.919	-76.775	1.00	0.00	C
ATOM	6729	HA	VAL	F	153	6.539	69.933	-77.233	1.00	0.00	H
ATOM	6730	C	VAL	F	153	6.615	71.949	-77.917	1.00	0.00	C
ATOM	6731	O	VAL	F	153	7.312	72.955	-77.758	1.00	0.00	O
ATOM	6732	CB	VAL	F	153	5.120	71.076	-76.090	1.00	0.00	C
ATOM	6733	HB	VAL	F	153	4.366	70.986	-76.867	1.00	0.00	H
ATOM	6734	CG1	VAL	F	153	4.807	69.991	-75.057	1.00	0.00	C
ATOM	6735	1HG1	VAL	F	153	5.460	70.083	-74.190	1.00	0.00	H
ATOM	6736	2HG1	VAL	F	153	4.953	69.018	-75.518	1.00	0.00	H
ATOM	6737	3HG1	VAL	F	153	3.768	70.070	-74.738	1.00	0.00	H
ATOM	6738	CG2	VAL	F	153	4.929	72.434	-75.403	1.00	0.00	C
ATOM	6739	1HG2	VAL	F	153	5.664	72.557	-74.608	1.00	0.00	H
ATOM	6740	2HG2	VAL	F	153	3.930	72.493	-74.973	1.00	0.00	H
ATOM	6741	3HG2	VAL	F	153	5.031	73.236	-76.131	1.00	0.00	H
ATOM	6742	N	GLU	F	154	5.916	71.752	-79.047	1.00	0.00	N
ATOM	6743	H	GLU	F	154	5.339	70.922	-79.112	1.00	0.00	H
ATOM	6744	CA	GLU	F	154	5.980	72.635	-80.241	1.00	0.00	C
ATOM	6745	HA	GLU	F	154	6.320	73.615	-79.912	1.00	0.00	H
ATOM	6746	C	GLU	F	154	4.636	72.876	-80.959	1.00	0.00	C
ATOM	6747	O	GLU	F	154	3.692	72.098	-80.796	1.00	0.00	O
ATOM	6748	CB	GLU	F	154	7.042	72.099	-81.233	1.00	0.00	C
ATOM	6749	1HB	GLU	F	154	7.491	72.946	-81.748	1.00	0.00	H
ATOM	6750	2HB	GLU	F	154	7.839	71.643	-80.650	1.00	0.00	H
ATOM	6751	CG	GLU	F	154	6.592	71.059	-82.283	1.00	0.00	C
ATOM	6752	1HG	GLU	F	154	7.474	70.490	-82.586	1.00	0.00	H
ATOM	6753	2HG	GLU	F	154	5.898	70.356	-81.816	1.00	0.00	H
ATOM	6754	CD	GLU	F	154	5.969	71.676	-83.552	1.00	0.00	C
ATOM	6755	OE1	GLU	F	154	4.951	71.134	-84.040	1.00	0.00	O
ATOM	6756	OE2	GLU	F	154	6.477	72.712	-84.033	1.00	0.00	O
ATOM	6757	N	PHE	F	155	4.584	73.918	-81.805	1.00	0.00	N
ATOM	6758	H	PHE	F	155	5.408	74.507	-81.876	1.00	0.00	H
ATOM	6759	CA	PHE	F	155	3.631	74.005	-82.923	1.00	0.00	C
ATOM	6760	HA	PHE	F	155	3.462	72.991	-83.288	1.00	0.00	H
ATOM	6761	C	PHE	F	155	4.166	74.848	-84.099	1.00	0.00	C
ATOM	6762	O	PHE	F	155	4.479	76.038	-83.955	1.00	0.00	O
ATOM	6763	CB	PHE	F	155	2.277	74.558	-82.468	1.00	0.00	C
ATOM	6764	1HB	PHE	F	155	2.055	74.179	-81.473	1.00	0.00	H
ATOM	6765	2HB	PHE	F	155	2.338	75.640	-82.381	1.00	0.00	H
ATOM	6766	CG	PHE	F	155	1.138	74.159	-83.396	1.00	0.00	C
ATOM	6767	CD1	PHE	F	155	0.482	72.934	-83.185	1.00	0.00	C
ATOM	6768	HD1	PHE	F	155	0.804	72.297	-82.383	1.00	0.00	H
ATOM	6769	CD2	PHE	F	155	0.746	74.967	-84.481	1.00	0.00	C
ATOM	6770	HD2	PHE	F	155	1.256	75.899	-84.673	1.00	0.00	H
ATOM	6771	CE1	PHE	F	155	-0.565	72.519	-84.023	1.00	0.00	C
ATOM	6772	HE1	PHE	F	155	-1.052	71.566	-83.853	1.00	0.00	H
ATOM	6773	CE2	PHE	F	155	-0.322	74.566	-85.309	1.00	0.00	C
ATOM	6774	HE2	PHE	F	155	-0.648	75.192	-86.125	1.00	0.00	H
ATOM	6775	CZ	PHE	F	155	-0.976	73.343	-85.081	1.00	0.00	C
ATOM	6776	HZ	PHE	F	155	-1.789	73.032	-85.725	1.00	0.00	H
ATOM	6777	N	VAL	F	156	4.213	74.236	-85.286	1.00	0.00	N
ATOM	6778	H	VAL	F	156	4.107	73.227	-85.255	1.00	0.00	H
ATOM	6779	CA	VAL	F	156	4.829	74.799	-86.501	1.00	0.00	C
ATOM	6780	HA	VAL	F	156	5.891	74.910	-86.286	1.00	0.00	H
ATOM	6781	C	VAL	F	156	4.301	76.188	-86.894	1.00	0.00	C
ATOM	6782	O	VAL	F	156	5.111	77.075	-87.160	1.00	0.00	O
ATOM	6783	CB	VAL	F	156	4.707	73.820	-87.689	1.00	0.00	C
ATOM	6784	HB	VAL	F	156	3.659	73.737	-87.978	1.00	0.00	H
ATOM	6785	CG1	VAL	F	156	5.511	74.307	-88.904	1.00	0.00	C
ATOM	6786	1HG1	VAL	F	156	5.122	75.259	-89.262	1.00	0.00	H
ATOM	6787	2HG1	VAL	F	156	5.428	73.582	-89.714	1.00	0.00	H
ATOM	6788	3HG1	VAL	F	156	6.561	74.422	-88.632	1.00	0.00	H
ATOM	6789	CG2	VAL	F	156	5.223	72.417	-87.339	1.00	0.00	C
ATOM	6790	1HG2	VAL	F	156	6.238	72.475	-86.941	1.00	0.00	H
ATOM	6791	2HG2	VAL	F	156	5.215	71.777	-88.221	1.00	0.00	H
ATOM	6792	3HG2	VAL	F	156	4.585	71.952	-86.587	1.00	0.00	H
ATOM	6793	N	GLU	F	157	2.984	76.423	-86.915	1.00	0.00	N
ATOM	6794	H	GLU	F	157	2.359	75.679	-86.644	1.00	0.00	H
ATOM	6795	CA	GLU	F	157	2.415	77.734	-87.296	1.00	0.00	C
ATOM	6796	HA	GLU	F	157	2.899	78.032	-88.228	1.00	0.00	H
ATOM	6797	C	GLU	F	157	2.733	78.843	-86.274	1.00	0.00	C
ATOM	6798	O	GLU	F	157	2.762	78.610	-85.064	1.00	0.00	O
ATOM	6799	CB	GLU	F	157	0.899	77.638	-87.560	1.00	0.00	C

ATOM	6800	1HB	GLU	F	157	0.540	76.671	-87.216	1.00	0.00	H
ATOM	6801	2HB	GLU	F	157	0.367	78.405	-86.994	1.00	0.00	H
ATOM	6802	CG	GLU	F	157	0.538	77.780	-89.050	1.00	0.00	C
ATOM	6803	1HG	GLU	F	157	1.163	77.099	-89.633	1.00	0.00	H
ATOM	6804	2HG	GLU	F	157	-0.500	77.460	-89.171	1.00	0.00	H
ATOM	6805	CD	GLU	F	157	0.687	79.214	-89.594	1.00	0.00	C
ATOM	6806	OE1	GLU	F	157	-0.113	79.596	-90.474	1.00	0.00	O
ATOM	6807	OE2	GLU	F	157	1.611	79.930	-89.138	1.00	0.00	O
ATOM	6808	N	ILE	F	158	3.001	80.055	-86.770	1.00	0.00	N
ATOM	6809	H	ILE	F	158	2.762	80.193	-87.755	1.00	0.00	H
ATOM	6810	CA	ILE	F	158	3.788	81.099	-86.094	1.00	0.00	C
ATOM	6811	HA	ILE	F	158	4.788	80.704	-85.934	1.00	0.00	H
ATOM	6812	C	ILE	F	158	3.236	81.445	-84.703	1.00	0.00	C
ATOM	6813	O	ILE	F	158	3.967	81.334	-83.713	1.00	0.00	O
ATOM	6814	CB	ILE	F	158	3.950	82.341	-87.013	1.00	0.00	C
ATOM	6815	HB	ILE	F	158	2.997	82.545	-87.508	1.00	0.00	H
ATOM	6816	CG1	ILE	F	158	5.045	82.145	-88.092	1.00	0.00	C
ATOM	6817	1HG1	ILE	F	158	5.159	83.079	-88.644	1.00	0.00	H
ATOM	6818	2HG1	ILE	F	158	5.996	81.933	-87.602	1.00	0.00	H
ATOM	6819	CG2	ILE	F	158	4.354	83.608	-86.228	1.00	0.00	C
ATOM	6820	1HG2	ILE	F	158	3.554	83.913	-85.553	1.00	0.00	H
ATOM	6821	2HG2	ILE	F	158	4.529	84.436	-86.914	1.00	0.00	H
ATOM	6822	3HG2	ILE	F	158	5.260	83.420	-85.650	1.00	0.00	H
ATOM	6823	CD1	ILE	F	158	4.788	81.051	-89.134	1.00	0.00	C
ATOM	6824	1HD1	ILE	F	158	4.809	80.064	-88.672	1.00	0.00	H
ATOM	6825	2HD1	ILE	F	158	5.569	81.088	-89.893	1.00	0.00	H
ATOM	6826	3HD1	ILE	F	158	3.825	81.218	-89.616	1.00	0.00	H
ATOM	6827	N	ASP	F	159	1.963	81.846	-84.628	1.00	0.00	N
ATOM	6828	H	ASP	F	159	1.419	81.844	-85.479	1.00	0.00	H
ATOM	6829	CA	ASP	F	159	1.344	82.397	-83.413	1.00	0.00	C
ATOM	6830	HA	ASP	F	159	2.058	83.078	-82.945	1.00	0.00	H
ATOM	6831	C	ASP	F	159	0.975	81.331	-82.365	1.00	0.00	C
ATOM	6832	O	ASP	F	159	0.826	81.639	-81.184	1.00	0.00	O
ATOM	6833	CB	ASP	F	159	0.104	83.215	-83.810	1.00	0.00	C
ATOM	6834	1HB	ASP	F	159	0.361	83.866	-84.648	1.00	0.00	H
ATOM	6835	2HB	ASP	F	159	-0.686	82.537	-84.139	1.00	0.00	H
ATOM	6836	CG	ASP	F	159	-0.401	84.096	-82.661	1.00	0.00	C
ATOM	6837	OD1	ASP	F	159	-1.591	83.982	-82.300	1.00	0.00	O
ATOM	6838	OD2	ASP	F	159	0.416	84.905	-82.164	1.00	0.00	O
ATOM	6839	N	ALA	F	160	0.871	80.060	-82.755	1.00	0.00	N
ATOM	6840	H	ALA	F	160	1.077	79.826	-83.718	1.00	0.00	H
ATOM	6841	CA	ALA	F	160	0.460	78.986	-81.853	1.00	0.00	C
ATOM	6842	HA	ALA	F	160	-0.543	79.197	-81.480	1.00	0.00	H
ATOM	6843	C	ALA	F	160	1.391	78.861	-80.633	1.00	0.00	C
ATOM	6844	O	ALA	F	160	0.940	78.957	-79.489	1.00	0.00	O
ATOM	6845	CB	ALA	F	160	0.414	77.701	-82.667	1.00	0.00	C
ATOM	6846	1HB	ALA	F	160	0.181	76.867	-82.008	1.00	0.00	H
ATOM	6847	2HB	ALA	F	160	1.384	77.530	-83.130	1.00	0.00	H
ATOM	6848	3HB	ALA	F	160	-0.349	77.775	-83.443	1.00	0.00	H
ATOM	6849	N	VAL	F	161	2.709	78.773	-80.860	1.00	0.00	N
ATOM	6850	H	VAL	F	161	3.025	78.661	-81.814	1.00	0.00	H
ATOM	6851	CA	VAL	F	161	3.689	78.798	-79.761	1.00	0.00	C
ATOM	6852	HA	VAL	F	161	3.357	78.054	-79.040	1.00	0.00	H
ATOM	6853	C	VAL	F	161	3.719	80.143	-79.022	1.00	0.00	C
ATOM	6854	O	VAL	F	161	3.999	80.167	-77.830	1.00	0.00	O
ATOM	6855	CB	VAL	F	161	5.092	78.361	-80.225	1.00	0.00	C
ATOM	6856	HB	VAL	F	161	4.976	77.509	-80.895	1.00	0.00	H
ATOM	6857	CG1	VAL	F	161	5.854	79.458	-80.978	1.00	0.00	C
ATOM	6858	1HG1	VAL	F	161	6.131	80.266	-80.299	1.00	0.00	H
ATOM	6859	2HG1	VAL	F	161	5.229	79.856	-81.774	1.00	0.00	H
ATOM	6860	3HG1	VAL	F	161	6.761	79.027	-81.399	1.00	0.00	H
ATOM	6861	CG2	VAL	F	161	5.944	77.905	-79.034	1.00	0.00	C
ATOM	6862	1HG2	VAL	F	161	6.084	78.717	-78.322	1.00	0.00	H
ATOM	6863	2HG2	VAL	F	161	6.921	77.580	-79.384	1.00	0.00	H
ATOM	6864	3HG2	VAL	F	161	5.459	77.066	-78.535	1.00	0.00	H
ATOM	6865	N	GLN	F	162	3.394	81.263	-79.682	1.00	0.00	N
ATOM	6866	H	GLN	F	162	3.071	81.183	-80.636	1.00	0.00	H
ATOM	6867	CA	GLN	F	162	3.308	82.583	-79.036	1.00	0.00	C
ATOM	6868	HA	GLN	F	162	4.235	82.743	-78.490	1.00	0.00	H
ATOM	6869	C	GLN	F	162	2.171	82.659	-77.997	1.00	0.00	C
ATOM	6870	O	GLN	F	162	2.301	83.378	-77.007	1.00	0.00	O
ATOM	6871	CB	GLN	F	162	3.214	83.681	-80.111	1.00	0.00	C
ATOM	6872	1HB	GLN	F	162	4.040	83.547	-80.812	1.00	0.00	H
ATOM	6873	2HB	GLN	F	162	2.279	83.587	-80.657	1.00	0.00	H
ATOM	6874	CG	GLN	F	162	3.292	85.102	-79.531	1.00	0.00	C
ATOM	6875	1HG	GLN	F	162	2.357	85.334	-79.021	1.00	0.00	H
ATOM	6876	2HG	GLN	F	162	4.106	85.152	-78.808	1.00	0.00	H

ATOM	6877	CD	GLN	F	162	3.539	86.156	-80.607	1.00	0.00	C
ATOM	6878	OE1	GLN	F	162	4.571	86.811	-80.646	1.00	0.00	O
ATOM	6879	NE2	GLN	F	162	2.632	86.370	-81.531	1.00	0.00	N
ATOM	6880	1HE2	GLN	F	162	2.835	87.043	-82.236	1.00	0.00	H
ATOM	6881	2HE2	GLN	F	162	1.772	85.803	-81.581	1.00	0.00	H
ATOM	6882	N	ASN	F	163	1.109	81.865	-78.165	1.00	0.00	N
ATOM	6883	H	ASN	F	163	1.045	81.337	-79.027	1.00	0.00	H
ATOM	6884	CA	ASN	F	163	0.089	81.638	-77.137	1.00	0.00	C
ATOM	6885	HA	ASN	F	163	-0.091	82.566	-76.589	1.00	0.00	H
ATOM	6886	C	ASN	F	163	0.564	80.589	-76.107	1.00	0.00	C
ATOM	6887	O	ASN	F	163	0.512	80.835	-74.901	1.00	0.00	O
ATOM	6888	CB	ASN	F	163	-1.227	81.222	-77.823	1.00	0.00	C
ATOM	6889	1HB	ASN	F	163	-1.058	80.383	-78.495	1.00	0.00	H
ATOM	6890	2HB	ASN	F	163	-1.939	80.900	-77.063	1.00	0.00	H
ATOM	6891	CG	ASN	F	163	-1.880	82.360	-78.596	1.00	0.00	C
ATOM	6892	OD1	ASN	F	163	-2.740	83.060	-78.089	1.00	0.00	O
ATOM	6893	ND2	ASN	F	163	-1.479	82.575	-79.828	1.00	0.00	N
ATOM	6894	1HD2	ASN	F	163	-1.887	83.322	-80.386	1.00	0.00	H
ATOM	6895	2HD2	ASN	F	163	-0.709	82.065	-80.233	1.00	0.00	H
ATOM	6896	N	ALA	F	164	1.098	79.445	-76.558	1.00	0.00	N
ATOM	6897	H	ALA	F	164	1.102	79.276	-77.559	1.00	0.00	H
ATOM	6898	CA	ALA	F	164	1.551	78.360	-75.675	1.00	0.00	C
ATOM	6899	HA	ALA	F	164	0.712	78.084	-75.033	1.00	0.00	H
ATOM	6900	C	ALA	F	164	2.724	78.734	-74.738	1.00	0.00	C
ATOM	6901	O	ALA	F	164	2.874	78.133	-73.675	1.00	0.00	O
ATOM	6902	CB	ALA	F	164	1.900	77.134	-76.527	1.00	0.00	C
ATOM	6903	1HB	ALA	F	164	2.066	76.275	-75.875	1.00	0.00	H
ATOM	6904	2HB	ALA	F	164	2.808	77.320	-77.095	1.00	0.00	H
ATOM	6905	3HB	ALA	F	164	1.079	76.900	-77.208	1.00	0.00	H
ATOM	6906	N	LEU	F	165	3.541	79.739	-75.083	1.00	0.00	N
ATOM	6907	H	LEU	F	165	3.442	80.125	-76.016	1.00	0.00	H
ATOM	6908	CA	LEU	F	165	4.599	80.282	-74.215	1.00	0.00	C
ATOM	6909	HA	LEU	F	165	5.019	79.442	-73.663	1.00	0.00	H
ATOM	6910	C	LEU	F	165	4.088	81.276	-73.152	1.00	0.00	C
ATOM	6911	O	LEU	F	165	4.870	81.681	-72.291	1.00	0.00	O
ATOM	6912	CB	LEU	F	165	5.758	80.841	-75.071	1.00	0.00	C
ATOM	6913	1HB	LEU	F	165	6.636	80.948	-74.433	1.00	0.00	H
ATOM	6914	2HB	LEU	F	165	5.997	80.076	-75.810	1.00	0.00	H
ATOM	6915	CG	LEU	F	165	5.535	82.174	-75.818	1.00	0.00	C
ATOM	6916	HG	LEU	F	165	4.522	82.207	-76.208	1.00	0.00	H
ATOM	6917	CD1	LEU	F	165	5.785	83.421	-74.964	1.00	0.00	C
ATOM	6918	1HD1	LEU	F	165	5.066	83.479	-74.152	1.00	0.00	H
ATOM	6919	2HD1	LEU	F	165	5.662	84.315	-75.575	1.00	0.00	H
ATOM	6920	3HD1	LEU	F	165	6.790	83.397	-74.546	1.00	0.00	H
ATOM	6921	CD2	LEU	F	165	6.524	82.266	-76.986	1.00	0.00	C
ATOM	6922	1HD2	LEU	F	165	7.548	82.220	-76.615	1.00	0.00	H
ATOM	6923	2HD2	LEU	F	165	6.374	83.199	-77.529	1.00	0.00	H
ATOM	6924	3HD2	LEU	F	165	6.357	81.436	-77.673	1.00	0.00	H
ATOM	6925	N	LEU	F	166	2.803	81.650	-73.193	1.00	0.00	N
ATOM	6926	H	LEU	F	166	2.224	81.243	-73.920	1.00	0.00	H
ATOM	6927	CA	LEU	F	166	2.239	82.812	-72.489	1.00	0.00	C
ATOM	6928	HA	LEU	F	166	3.000	83.225	-71.827	1.00	0.00	H
ATOM	6929	C	LEU	F	166	1.014	82.486	-71.605	1.00	0.00	C
ATOM	6930	O	LEU	F	166	0.588	83.330	-70.820	1.00	0.00	O
ATOM	6931	CB	LEU	F	166	1.906	83.852	-73.583	1.00	0.00	C
ATOM	6932	1HB	LEU	F	166	2.788	83.984	-74.210	1.00	0.00	H
ATOM	6933	2HB	LEU	F	166	1.121	83.439	-74.218	1.00	0.00	H
ATOM	6934	CG	LEU	F	166	1.450	85.247	-73.115	1.00	0.00	C
ATOM	6935	HG	LEU	F	166	0.501	85.173	-72.589	1.00	0.00	H
ATOM	6936	CD1	LEU	F	166	2.479	85.929	-72.209	1.00	0.00	C
ATOM	6937	1HD1	LEU	F	166	2.561	85.376	-71.273	1.00	0.00	H
ATOM	6938	2HD1	LEU	F	166	2.152	86.941	-71.977	1.00	0.00	H
ATOM	6939	3HD1	LEU	F	166	3.450	85.959	-72.703	1.00	0.00	H
ATOM	6940	CD2	LEU	F	166	1.237	86.141	-74.339	1.00	0.00	C
ATOM	6941	1HD2	LEU	F	166	0.872	87.118	-74.026	1.00	0.00	H
ATOM	6942	2HD2	LEU	F	166	0.497	85.682	-74.996	1.00	0.00	H
ATOM	6943	3HD2	LEU	F	166	2.172	86.254	-74.889	1.00	0.00	H
ATOM	6944	N	LEU	F	167	0.457	81.275	-71.708	1.00	0.00	N
ATOM	6945	H	LEU	F	167	0.854	80.653	-72.396	1.00	0.00	H
ATOM	6946	CA	LEU	F	167	-0.835	80.879	-71.120	1.00	0.00	C
ATOM	6947	HA	LEU	F	167	-1.151	81.626	-70.392	1.00	0.00	H
ATOM	6948	C	LEU	F	167	-0.724	79.542	-70.351	1.00	0.00	C
ATOM	6949	O	LEU	F	167	-1.554	78.651	-70.508	1.00	0.00	O
ATOM	6950	CB	LEU	F	167	-1.887	80.814	-72.252	1.00	0.00	C
ATOM	6951	1HB	LEU	F	167	-1.572	80.045	-72.960	1.00	0.00	H
ATOM	6952	2HB	LEU	F	167	-2.839	80.497	-71.823	1.00	0.00	H
ATOM	6953	CG	LEU	F	167	-2.134	82.118	-73.037	1.00	0.00	C

ATOM	6954	HG	LEU	F	167	-1.200	82.476	-73.470	1.00	0.00	H
ATOM	6955	CD1	LEU	F	167	-3.112	81.847	-74.179	1.00	0.00	C
ATOM	6956	1HD1	LEU	F	167	-3.239	82.742	-74.787	1.00	0.00	H
ATOM	6957	2HD1	LEU	F	167	-4.079	81.530	-73.787	1.00	0.00	H
ATOM	6958	3HD1	LEU	F	167	-2.722	81.052	-74.814	1.00	0.00	H
ATOM	6959	CD2	LEU	F	167	-2.726	83.224	-72.161	1.00	0.00	C
ATOM	6960	1HD2	LEU	F	167	-2.927	84.103	-72.773	1.00	0.00	H
ATOM	6961	2HD2	LEU	F	167	-2.017	83.500	-71.382	1.00	0.00	H
ATOM	6962	3HD2	LEU	F	167	-3.653	82.879	-71.704	1.00	0.00	H
ATOM	6963	N	ASN	F	168	0.367	79.357	-69.600	1.00	0.00	N
ATOM	6964	H	ASN	F	168	0.996	80.143	-69.504	1.00	0.00	H
ATOM	6965	CA	ASN	F	168	0.950	78.028	-69.371	1.00	0.00	C
ATOM	6966	HA	ASN	F	168	0.200	77.260	-69.573	1.00	0.00	H
ATOM	6967	C	ASN	F	168	1.474	77.737	-67.948	1.00	0.00	C
ATOM	6968	O	ASN	F	168	1.163	76.696	-67.380	1.00	0.00	O
ATOM	6969	CB	ASN	F	168	2.082	77.874	-70.411	1.00	0.00	C
ATOM	6970	1HB	ASN	F	168	2.581	76.919	-70.259	1.00	0.00	H
ATOM	6971	2HB	ASN	F	168	1.636	77.850	-71.405	1.00	0.00	H
ATOM	6972	CG	ASN	F	168	3.147	78.970	-70.395	1.00	0.00	C
ATOM	6973	OD1	ASN	F	168	3.114	79.942	-69.656	1.00	0.00	O
ATOM	6974	ND2	ASN	F	168	4.131	78.869	-71.243	1.00	0.00	N
ATOM	6975	1HD2	ASN	F	168	4.761	79.656	-71.272	1.00	0.00	H
ATOM	6976	2HD2	ASN	F	168	4.028	78.217	-72.011	1.00	0.00	H
ATOM	6977	N	GLU	F	169	2.306	78.601	-67.368	1.00	0.00	N
ATOM	6978	H	GLU	F	169	2.531	79.442	-67.889	1.00	0.00	H
ATOM	6979	CA	GLU	F	169	3.245	78.213	-66.303	1.00	0.00	C
ATOM	6980	HA	GLU	F	169	3.534	77.177	-66.486	1.00	0.00	H
ATOM	6981	C	GLU	F	169	2.668	78.207	-64.870	1.00	0.00	C
ATOM	6982	O	GLU	F	169	3.391	78.454	-63.903	1.00	0.00	O
ATOM	6983	CB	GLU	F	169	4.533	79.042	-66.437	1.00	0.00	C
ATOM	6984	1HB	GLU	F	169	5.264	78.601	-65.771	1.00	0.00	H
ATOM	6985	2HB	GLU	F	169	4.927	78.929	-67.449	1.00	0.00	H
ATOM	6986	CG	GLU	F	169	4.412	80.544	-66.121	1.00	0.00	C
ATOM	6987	1HG	GLU	F	169	4.104	81.078	-67.022	1.00	0.00	H
ATOM	6988	2HG	GLU	F	169	3.645	80.700	-65.361	1.00	0.00	H
ATOM	6989	CD	GLU	F	169	5.744	81.110	-65.605	1.00	0.00	C
ATOM	6990	OE1	GLU	F	169	6.807	80.756	-66.173	1.00	0.00	O
ATOM	6991	OE2	GLU	F	169	5.720	81.848	-64.589	1.00	0.00	O
ATOM	6992	N	THR	F	170	1.365	77.952	-64.713	1.00	0.00	N
ATOM	6993	H	THR	F	170	0.839	77.725	-65.547	1.00	0.00	H
ATOM	6994	CA	THR	F	170	0.645	78.190	-63.445	1.00	0.00	C
ATOM	6995	HA	THR	F	170	1.381	78.313	-62.655	1.00	0.00	H
ATOM	6996	C	THR	F	170	-0.240	77.027	-62.977	1.00	0.00	C
ATOM	6997	O	THR	F	170	-0.524	76.966	-61.782	1.00	0.00	O
ATOM	6998	CB	THR	F	170	-0.124	79.523	-63.516	1.00	0.00	C
ATOM	6999	HB	THR	F	170	-0.860	79.465	-64.319	1.00	0.00	H
ATOM	7000	OG1	THR	F	170	0.778	80.567	-63.807	1.00	0.00	O
ATOM	7001	HG1	THR	F	170	1.426	80.617	-63.079	1.00	0.00	H
ATOM	7002	CG2	THR	F	170	-0.835	79.945	-62.230	1.00	0.00	C
ATOM	7003	1HG2	THR	F	170	-1.674	79.278	-62.034	1.00	0.00	H
ATOM	7004	2HG2	THR	F	170	-1.223	80.957	-62.343	1.00	0.00	H
ATOM	7005	3HG2	THR	F	170	-0.143	79.914	-61.389	1.00	0.00	H
ATOM	7006	N	GLU	F	171	-0.587	76.057	-63.834	1.00	0.00	N
ATOM	7007	H	GLU	F	171	-0.329	76.126	-64.809	1.00	0.00	H
ATOM	7008	CA	GLU	F	171	-1.179	74.776	-63.402	1.00	0.00	C
ATOM	7009	HA	GLU	F	171	-0.769	74.541	-62.425	1.00	0.00	H
ATOM	7010	C	GLU	F	171	-0.800	73.635	-64.363	1.00	0.00	C
ATOM	7011	O	GLU	F	171	-1.020	73.727	-65.571	1.00	0.00	O
ATOM	7012	CB	GLU	F	171	-2.707	74.893	-63.234	1.00	0.00	C
ATOM	7013	1HB	GLU	F	171	-2.938	75.902	-62.888	1.00	0.00	H
ATOM	7014	2HB	GLU	F	171	-3.211	74.752	-64.191	1.00	0.00	H
ATOM	7015	CG	GLU	F	171	-3.277	73.924	-62.179	1.00	0.00	C
ATOM	7016	1HG	GLU	F	171	-2.648	73.952	-61.285	1.00	0.00	H
ATOM	7017	2HG	GLU	F	171	-4.260	74.295	-61.880	1.00	0.00	H
ATOM	7018	CD	GLU	F	171	-3.432	72.477	-62.670	1.00	0.00	C
ATOM	7019	OE1	GLU	F	171	-4.459	72.199	-63.321	1.00	0.00	O
ATOM	7020	OE2	GLU	F	171	-2.548	71.641	-62.365	1.00	0.00	O
ATOM	7021	N	LEU	F	172	-0.199	72.577	-63.817	1.00	0.00	N
ATOM	7022	H	LEU	F	172	-0.142	72.551	-62.803	1.00	0.00	H
ATOM	7023	CA	LEU	F	172	0.127	71.334	-64.517	1.00	0.00	C
ATOM	7024	HA	LEU	F	172	-0.625	71.160	-65.284	1.00	0.00	H
ATOM	7025	C	LEU	F	172	0.101	70.175	-63.506	1.00	0.00	C
ATOM	7026	O	LEU	F	172	0.756	70.271	-62.462	1.00	0.00	O
ATOM	7027	CB	LEU	F	172	1.527	71.461	-65.167	1.00	0.00	C
ATOM	7028	1HB	LEU	F	172	1.767	72.516	-65.307	1.00	0.00	H
ATOM	7029	2HB	LEU	F	172	2.274	71.062	-64.479	1.00	0.00	H
ATOM	7030	CG	LEU	F	172	1.705	70.762	-66.529	1.00	0.00	C

ATOM	7031	HG	LEU	F	172	2.769	70.703	-66.737	1.00	0.00	H
ATOM	7032	CD1	LEU	F	172	1.166	69.335	-66.576	1.00	0.00	C
ATOM	7033	1HD1	LEU	F	172	0.083	69.332	-66.489	1.00	0.00	H
ATOM	7034	2HD1	LEU	F	172	1.601	68.750	-65.768	1.00	0.00	H
ATOM	7035	3HD1	LEU	F	172	1.431	68.869	-67.521	1.00	0.00	H
ATOM	7036	CD2	LEU	F	172	1.080	71.592	-67.643	1.00	0.00	C
ATOM	7037	1HD2	LEU	F	172	1.187	71.084	-68.601	1.00	0.00	H
ATOM	7038	2HD2	LEU	F	172	1.573	72.561	-67.701	1.00	0.00	H
ATOM	7039	3HD2	LEU	F	172	0.027	71.760	-67.427	1.00	0.00	H
ATOM	7040	N	HIS	F	173	-0.584	69.066	-63.814	1.00	0.00	N
ATOM	7041	H	HIS	F	173	-1.149	69.066	-64.658	1.00	0.00	H
ATOM	7042	CA	HIS	F	173	-0.583	67.837	-62.996	1.00	0.00	C
ATOM	7043	HA	HIS	F	173	-1.288	67.145	-63.462	1.00	0.00	H
ATOM	7044	C	HIS	F	173	-1.095	68.063	-61.543	1.00	0.00	C
ATOM	7045	O	HIS	F	173	-0.795	67.289	-60.630	1.00	0.00	O
ATOM	7046	CB	HIS	F	173	0.826	67.199	-63.118	1.00	0.00	C
ATOM	7047	1HB	HIS	F	173	1.048	67.087	-64.179	1.00	0.00	H
ATOM	7048	2HB	HIS	F	173	1.569	67.876	-62.698	1.00	0.00	H
ATOM	7049	CG	HIS	F	173	1.036	65.842	-62.490	1.00	0.00	C
ATOM	7050	ND1	HIS	F	173	0.395	64.679	-62.828	1.00	0.00	N
ATOM	7051	HD1	HIS	F	173	-0.217	64.568	-63.650	1.00	0.00	H
ATOM	7052	CD2	HIS	F	173	2.002	65.505	-61.584	1.00	0.00	C
ATOM	7053	HD2	HIS	F	173	2.730	66.184	-61.162	1.00	0.00	H
ATOM	7054	CE1	HIS	F	173	0.940	63.671	-62.135	1.00	0.00	C
ATOM	7055	HE1	HIS	F	173	0.700	62.625	-62.283	1.00	0.00	H
ATOM	7056	NE2	HIS	F	173	1.879	64.137	-61.290	1.00	0.00	N
ATOM	7057	N	GLY	F	174	-1.840	69.143	-61.270	1.00	0.00	N
ATOM	7058	H	GLY	F	174	-2.068	69.797	-62.023	1.00	0.00	H
ATOM	7059	CA	GLY	F	174	-2.268	69.545	-59.921	1.00	0.00	C
ATOM	7060	1HA	GLY	F	174	-3.110	70.230	-60.029	1.00	0.00	H
ATOM	7061	2HA	GLY	F	174	-2.600	68.670	-59.362	1.00	0.00	H
ATOM	7062	C	GLY	F	174	-1.182	70.269	-59.109	1.00	0.00	C
ATOM	7063	O	GLY	F	174	-1.252	70.319	-57.878	1.00	0.00	O
ATOM	7064	N	ARG	F	175	-0.148	70.778	-59.785	1.00	0.00	N
ATOM	7065	H	ARG	F	175	-0.211	70.707	-60.800	1.00	0.00	H
ATOM	7066	CA	ARG	F	175	1.002	71.543	-59.267	1.00	0.00	C
ATOM	7067	HA	ARG	F	175	0.749	71.968	-58.296	1.00	0.00	H
ATOM	7068	C	ARG	F	175	1.259	72.720	-60.230	1.00	0.00	C
ATOM	7069	O	ARG	F	175	0.375	73.096	-60.988	1.00	0.00	O
ATOM	7070	CB	ARG	F	175	2.242	70.624	-59.124	1.00	0.00	C
ATOM	7071	1HB	ARG	F	175	2.490	70.197	-60.098	1.00	0.00	H
ATOM	7072	2HB	ARG	F	175	3.088	71.242	-58.822	1.00	0.00	H
ATOM	7073	CG	ARG	F	175	2.164	69.494	-58.080	1.00	0.00	C
ATOM	7074	1HG	ARG	F	175	3.191	69.184	-57.878	1.00	0.00	H
ATOM	7075	2HG	ARG	F	175	1.746	69.877	-57.148	1.00	0.00	H
ATOM	7076	CD	ARG	F	175	1.368	68.259	-58.530	1.00	0.00	C
ATOM	7077	1HD	ARG	F	175	0.357	68.308	-58.127	1.00	0.00	H
ATOM	7078	2HD	ARG	F	175	1.312	68.261	-59.621	1.00	0.00	H
ATOM	7079	NE	ARG	F	175	2.016	67.006	-58.100	1.00	0.00	N
ATOM	7080	HE	ARG	F	175	2.970	67.078	-57.745	1.00	0.00	H
ATOM	7081	CZ	ARG	F	175	1.674	65.792	-58.480	1.00	0.00	C
ATOM	7082	NH1	ARG	F	175	0.523	65.515	-59.016	1.00	0.00	N
ATOM	7083	1HH1	ARG	F	175	-0.045	66.299	-59.325	1.00	0.00	H
ATOM	7084	2HH1	ARG	F	175	0.502	64.708	-59.617	1.00	0.00	H
ATOM	7085	NH2	ARG	F	175	2.528	64.818	-58.411	1.00	0.00	N
ATOM	7086	1HH2	ARG	F	175	3.510	65.073	-58.258	1.00	0.00	H
ATOM	7087	2HH2	ARG	F	175	2.380	64.063	-59.060	1.00	0.00	H
ATOM	7088	N	GLN	F	176	2.455	73.312	-60.235	1.00	0.00	N
ATOM	7089	H	GLN	F	176	3.175	72.942	-59.635	1.00	0.00	H
ATOM	7090	CA	GLN	F	176	2.909	74.165	-61.342	1.00	0.00	C
ATOM	7091	HA	GLN	F	176	2.367	73.868	-62.243	1.00	0.00	H
ATOM	7092	C	GLN	F	176	4.393	73.930	-61.649	1.00	0.00	C
ATOM	7093	O	GLN	F	176	5.088	73.242	-60.902	1.00	0.00	O
ATOM	7094	CB	GLN	F	176	2.578	75.652	-61.099	1.00	0.00	C
ATOM	7095	1HB	GLN	F	176	2.825	76.204	-62.008	1.00	0.00	H
ATOM	7096	2HB	GLN	F	176	1.505	75.740	-60.943	1.00	0.00	H
ATOM	7097	CG	GLN	F	176	3.291	76.322	-59.911	1.00	0.00	C
ATOM	7098	1HG	GLN	F	176	2.781	76.048	-58.988	1.00	0.00	H
ATOM	7099	2HG	GLN	F	176	4.321	75.970	-59.855	1.00	0.00	H
ATOM	7100	CD	GLN	F	176	3.322	77.848	-60.035	1.00	0.00	C
ATOM	7101	OE1	GLN	F	176	4.376	78.465	-59.975	1.00	0.00	O
ATOM	7102	NE2	GLN	F	176	2.200	78.508	-60.224	1.00	0.00	N
ATOM	7103	1HE2	GLN	F	176	2.281	79.504	-60.444	1.00	0.00	H
ATOM	7104	2HE2	GLN	F	176	1.324	78.023	-60.339	1.00	0.00	H
ATOM	7105	N	LEU	F	177	4.852	74.500	-62.761	1.00	0.00	N
ATOM	7106	H	LEU	F	177	4.227	75.116	-63.265	1.00	0.00	H
ATOM	7107	CA	LEU	F	177	6.194	74.378	-63.337	1.00	0.00	C

ATOM	7108	HA	LEU	F	177	6.934	74.350	-62.535	1.00	0.00	H
ATOM	7109	C	LEU	F	177	6.487	75.624	-64.195	1.00	0.00	C
ATOM	7110	O	LEU	F	177	5.594	76.455	-64.363	1.00	0.00	O
ATOM	7111	CB	LEU	F	177	6.288	73.055	-64.123	1.00	0.00	C
ATOM	7112	1HB	LEU	F	177	7.229	73.049	-64.669	1.00	0.00	H
ATOM	7113	2HB	LEU	F	177	6.340	72.247	-63.392	1.00	0.00	H
ATOM	7114	CG	LEU	F	177	5.149	72.718	-65.110	1.00	0.00	C
ATOM	7115	HG	LEU	F	177	4.209	72.626	-64.568	1.00	0.00	H
ATOM	7116	CD1	LEU	F	177	4.958	73.759	-66.215	1.00	0.00	C
ATOM	7117	1HD1	LEU	F	177	5.919	74.021	-66.653	1.00	0.00	H
ATOM	7118	2HD1	LEU	F	177	4.487	74.650	-65.805	1.00	0.00	H
ATOM	7119	3HD1	LEU	F	177	4.292	73.369	-66.983	1.00	0.00	H
ATOM	7120	CD2	LEU	F	177	5.459	71.361	-65.741	1.00	0.00	C
ATOM	7121	1HD2	LEU	F	177	6.508	71.301	-66.020	1.00	0.00	H
ATOM	7122	2HD2	LEU	F	177	4.860	71.200	-66.634	1.00	0.00	H
ATOM	7123	3HD2	LEU	F	177	5.231	70.574	-65.025	1.00	0.00	H
ATOM	7124	N	LYS	F	178	7.704	75.796	-64.730	1.00	0.00	N
ATOM	7125	H	LYS	F	178	8.389	75.047	-64.639	1.00	0.00	H
ATOM	7126	CA	LYS	F	178	8.132	77.072	-65.349	1.00	0.00	C
ATOM	7127	HA	LYS	F	178	7.251	77.676	-65.549	1.00	0.00	H
ATOM	7128	C	LYS	F	178	8.762	76.868	-66.732	1.00	0.00	C
ATOM	7129	O	LYS	F	178	9.401	75.850	-66.991	1.00	0.00	O
ATOM	7130	CB	LYS	F	178	9.016	77.850	-64.346	1.00	0.00	C
ATOM	7131	1HB	LYS	F	178	9.884	77.237	-64.095	1.00	0.00	H
ATOM	7132	2HB	LYS	F	178	9.378	78.762	-64.823	1.00	0.00	H
ATOM	7133	CG	LYS	F	178	8.289	78.238	-63.032	1.00	0.00	C
ATOM	7134	1HG	LYS	F	178	7.859	77.351	-62.567	1.00	0.00	H
ATOM	7135	2HG	LYS	F	178	9.018	78.637	-62.330	1.00	0.00	H
ATOM	7136	CD	LYS	F	178	7.182	79.282	-63.260	1.00	0.00	C
ATOM	7137	1HD	LYS	F	178	7.639	80.215	-63.596	1.00	0.00	H
ATOM	7138	2HD	LYS	F	178	6.534	78.918	-64.047	1.00	0.00	H
ATOM	7139	CE	LYS	F	178	6.283	79.568	-62.051	1.00	0.00	C
ATOM	7140	1HE	LYS	F	178	6.056	78.625	-61.547	1.00	0.00	H
ATOM	7141	2HE	LYS	F	178	6.816	80.218	-61.354	1.00	0.00	H
ATOM	7142	NZ	LYS	F	178	5.010	80.197	-62.491	1.00	0.00	N
ATOM	7143	1HZ	LYS	F	178	4.473	79.538	-63.050	1.00	0.00	H
ATOM	7144	2HZ	LYS	F	178	5.178	81.001	-63.097	1.00	0.00	H
ATOM	7145	3HZ	LYS	F	178	4.369	80.445	-61.739	1.00	0.00	H
ATOM	7146	N	VAL	F	179	8.503	77.806	-67.654	1.00	0.00	N
ATOM	7147	H	VAL	F	179	8.014	78.637	-67.346	1.00	0.00	H
ATOM	7148	CA	VAL	F	179	8.461	77.514	-69.108	1.00	0.00	C
ATOM	7149	HA	VAL	F	179	9.007	76.592	-69.306	1.00	0.00	H
ATOM	7150	C	VAL	F	179	9.094	78.632	-69.953	1.00	0.00	C
ATOM	7151	O	VAL	F	179	8.754	79.797	-69.783	1.00	0.00	O
ATOM	7152	CB	VAL	F	179	6.990	77.302	-69.544	1.00	0.00	C
ATOM	7153	HB	VAL	F	179	6.443	78.235	-69.405	1.00	0.00	H
ATOM	7154	CG1	VAL	F	179	6.877	76.897	-71.016	1.00	0.00	C
ATOM	7155	1HG1	VAL	F	179	7.458	75.998	-71.209	1.00	0.00	H
ATOM	7156	2HG1	VAL	F	179	7.225	77.702	-71.662	1.00	0.00	H
ATOM	7157	3HG1	VAL	F	179	5.834	76.693	-71.253	1.00	0.00	H
ATOM	7158	CG2	VAL	F	179	6.276	76.213	-68.724	1.00	0.00	C
ATOM	7159	1HG2	VAL	F	179	6.155	76.531	-67.689	1.00	0.00	H
ATOM	7160	2HG2	VAL	F	179	6.849	75.287	-68.756	1.00	0.00	H
ATOM	7161	3HG2	VAL	F	179	5.279	76.033	-69.127	1.00	0.00	H
ATOM	7162	N	SER	F	180	9.981	78.288	-70.894	1.00	0.00	N
ATOM	7163	H	SER	F	180	10.133	77.295	-71.058	1.00	0.00	H
ATOM	7164	CA	SER	F	180	10.738	79.233	-71.750	1.00	0.00	C
ATOM	7165	HA	SER	F	180	10.200	80.177	-71.834	1.00	0.00	H
ATOM	7166	C	SER	F	180	10.936	78.663	-73.165	1.00	0.00	C
ATOM	7167	O	SER	F	180	10.760	77.472	-73.370	1.00	0.00	O
ATOM	7168	CB	SER	F	180	12.119	79.494	-71.129	1.00	0.00	C
ATOM	7169	1HB	SER	F	180	12.396	78.630	-70.529	1.00	0.00	H
ATOM	7170	2HB	SER	F	180	12.865	79.615	-71.916	1.00	0.00	H
ATOM	7171	OG	SER	F	180	12.152	80.653	-70.311	1.00	0.00	O
ATOM	7172	HG	SER	F	180	12.965	80.598	-69.797	1.00	0.00	H
ATOM	7173	N	ALA	F	181	11.311	79.480	-74.157	1.00	0.00	N
ATOM	7174	H	ALA	F	181	11.474	80.449	-73.947	1.00	0.00	H
ATOM	7175	CA	ALA	F	181	11.560	79.021	-75.537	1.00	0.00	C
ATOM	7176	HA	ALA	F	181	10.672	78.508	-75.901	1.00	0.00	H
ATOM	7177	C	ALA	F	181	12.747	78.033	-75.671	1.00	0.00	C
ATOM	7178	O	ALA	F	181	13.698	78.111	-74.890	1.00	0.00	O
ATOM	7179	CB	ALA	F	181	11.774	80.258	-76.418	1.00	0.00	C
ATOM	7180	1HB	ALA	F	181	10.908	80.917	-76.349	1.00	0.00	H
ATOM	7181	2HB	ALA	F	181	11.894	79.946	-77.457	1.00	0.00	H
ATOM	7182	3HB	ALA	F	181	12.670	80.792	-76.100	1.00	0.00	H
ATOM	7183	N	LYS	F	182	12.728	77.171	-76.703	1.00	0.00	N
ATOM	7184	H	LYS	F	182	11.929	77.189	-77.334	1.00	0.00	H

ATOM	7185	CA	LYS	F	182	13.819	76.238	-77.069	1.00	0.00	C
ATOM	7186	HA	LYS	F	182	14.744	76.577	-76.607	1.00	0.00	H
ATOM	7187	C	LYS	F	182	14.085	76.250	-78.575	1.00	0.00	C
ATOM	7188	O	LYS	F	182	13.142	76.430	-79.371	1.00	0.00	O
ATOM	7189	OXT	LYS	F	182	15.231	75.960	-78.978	1.00	0.00	O
ATOM	7190	CB	LYS	F	182	13.500	74.812	-76.551	1.00	0.00	C
ATOM	7191	1HB	LYS	F	182	13.222	74.879	-75.500	1.00	0.00	H
ATOM	7192	2HB	LYS	F	182	12.649	74.409	-77.104	1.00	0.00	H
ATOM	7193	CG	LYS	F	182	14.702	73.848	-76.684	1.00	0.00	C
ATOM	7194	1HG	LYS	F	182	14.924	73.696	-77.740	1.00	0.00	H
ATOM	7195	2HG	LYS	F	182	15.571	74.308	-76.211	1.00	0.00	H
ATOM	7196	CD	LYS	F	182	14.469	72.468	-76.044	1.00	0.00	C
ATOM	7197	1HD	LYS	F	182	14.236	72.599	-74.990	1.00	0.00	H
ATOM	7198	2HD	LYS	F	182	13.621	71.983	-76.530	1.00	0.00	H
ATOM	7199	CE	LYS	F	182	15.725	71.584	-76.180	1.00	0.00	C
ATOM	7200	1HE	LYS	F	182	15.957	71.465	-77.243	1.00	0.00	H
ATOM	7201	2HE	LYS	F	182	16.569	72.091	-75.706	1.00	0.00	H
ATOM	7202	NZ	LYS	F	182	15.543	70.245	-75.565	1.00	0.00	N
ATOM	7203	1HZ	LYS	F	182	14.746	69.775	-75.985	1.00	0.00	H
ATOM	7204	2HZ	LYS	F	182	15.377	70.323	-74.566	1.00	0.00	H
ATOM	7205	3HZ	LYS	F	182	16.362	69.649	-75.720	1.00	0.00	H
TER	7206		LYS	F	182						
ATOM	7207	N	ASP	G	106	5.906	61.240	-96.672	1.00	0.00	N
ATOM	7208	1H	ASP	G	106	6.818	60.812	-96.730	1.00	0.00	H
ATOM	7209	2H	ASP	G	106	5.320	60.648	-96.093	1.00	0.00	H
ATOM	7210	3H	ASP	G	106	5.972	62.129	-96.181	1.00	0.00	H
ATOM	7211	CA	ASP	G	106	5.324	61.420	-98.019	1.00	0.00	C
ATOM	7212	HA	ASP	G	106	5.925	62.153	-98.552	1.00	0.00	H
ATOM	7213	C	ASP	G	106	3.891	61.982	-98.021	1.00	0.00	C
ATOM	7214	O	ASP	G	106	3.507	62.491	-99.069	1.00	0.00	O
ATOM	7215	CB	ASP	G	106	5.410	60.109	-98.817	1.00	0.00	C
ATOM	7216	1HB	ASP	G	106	4.912	60.220	-99.781	1.00	0.00	H
ATOM	7217	2HB	ASP	G	106	6.461	59.870	-98.995	1.00	0.00	H
ATOM	7218	CG	ASP	G	106	4.760	58.996	-98.010	1.00	0.00	C
ATOM	7219	OD1	ASP	G	106	5.504	58.383	-97.214	1.00	0.00	O
ATOM	7220	OD2	ASP	G	106	3.523	58.999	-97.909	1.00	0.00	O
ATOM	7221	N	SER	G	107	3.120	61.896	-96.919	1.00	0.00	N
ATOM	7222	H	SER	G	107	3.588	61.624	-96.054	1.00	0.00	H
ATOM	7223	CA	SER	G	107	1.691	62.269	-96.699	1.00	0.00	C
ATOM	7224	HA	SER	G	107	1.683	62.847	-95.774	1.00	0.00	H
ATOM	7225	C	SER	G	107	0.762	61.070	-96.423	1.00	0.00	C
ATOM	7226	O	SER	G	107	-0.389	61.256	-96.018	1.00	0.00	O
ATOM	7227	CB	SER	G	107	1.052	63.175	-97.763	1.00	0.00	C
ATOM	7228	1HB	SER	G	107	0.078	63.512	-97.404	1.00	0.00	H
ATOM	7229	2HB	SER	G	107	1.680	64.052	-97.922	1.00	0.00	H
ATOM	7230	OG	SER	G	107	0.871	62.492	-98.983	1.00	0.00	O
ATOM	7231	HG	SER	G	107	1.772	62.345	-99.328	1.00	0.00	H
ATOM	7232	N	ARG	G	108	1.252	59.835	-96.581	1.00	0.00	N
ATOM	7233	H	ARG	G	108	2.151	59.733	-97.056	1.00	0.00	H
ATOM	7234	CA	ARG	G	108	0.615	58.587	-96.119	1.00	0.00	C
ATOM	7235	HA	ARG	G	108	-0.393	58.793	-95.785	1.00	0.00	H
ATOM	7236	C	ARG	G	108	1.301	57.989	-94.891	1.00	0.00	C
ATOM	7237	O	ARG	G	108	0.852	56.969	-94.370	1.00	0.00	O
ATOM	7238	CB	ARG	G	108	0.564	57.557	-97.266	1.00	0.00	C
ATOM	7239	1HB	ARG	G	108	1.577	57.215	-97.485	1.00	0.00	H
ATOM	7240	2HB	ARG	G	108	0.002	56.687	-96.923	1.00	0.00	H
ATOM	7241	CG	ARG	G	108	-0.071	58.055	-98.580	1.00	0.00	C
ATOM	7242	1HG	ARG	G	108	0.630	58.725	-99.079	1.00	0.00	H
ATOM	7243	2HG	ARG	G	108	-0.220	57.192	-99.230	1.00	0.00	H
ATOM	7244	CD	ARG	G	108	-1.412	58.789	-98.421	1.00	0.00	C
ATOM	7245	1HD	ARG	G	108	-1.225	59.781	-98.012	1.00	0.00	H
ATOM	7246	2HD	ARG	G	108	-1.854	58.922	-99.411	1.00	0.00	H
ATOM	7247	NE	ARG	G	108	-2.354	58.039	-97.571	1.00	0.00	N
ATOM	7248	HE	ARG	G	108	-2.657	57.128	-97.903	1.00	0.00	H
ATOM	7249	CZ	ARG	G	108	-2.889	58.404	-96.424	1.00	0.00	C
ATOM	7250	NH1	ARG	G	108	-2.776	59.601	-95.917	1.00	0.00	N
ATOM	7251	1HH1	ARG	G	108	-2.138	60.264	-96.339	1.00	0.00	H
ATOM	7252	2HH1	ARG	G	108	-3.219	59.816	-95.046	1.00	0.00	H
ATOM	7253	NH2	ARG	G	108	-3.537	57.529	-95.727	1.00	0.00	N
ATOM	7254	1HH2	ARG	G	108	-3.536	56.559	-96.030	1.00	0.00	H
ATOM	7255	2HH2	ARG	G	108	-4.035	57.757	-94.889	1.00	0.00	H
ATOM	7256	N	SER	G	109	2.359	58.639	-94.409	1.00	0.00	N
ATOM	7257	H	SER	G	109	2.643	59.488	-94.870	1.00	0.00	H
ATOM	7258	CA	SER	G	109	3.282	58.109	-93.412	1.00	0.00	C
ATOM	7259	HA	SER	G	109	2.953	57.109	-93.145	1.00	0.00	H
ATOM	7260	C	SER	G	109	3.338	58.903	-92.109	1.00	0.00	C
ATOM	7261	O	SER	G	109	2.950	60.069	-92.002	1.00	0.00	O



ATOM	7262	CB	SER	G	109	4.698	57.982	-94.002	1.00	0.00	C
ATOM	7263	1HB	SER	G	109	5.428	57.889	-93.199	1.00	0.00	H
ATOM	7264	2HB	SER	G	109	4.762	57.085	-94.610	1.00	0.00	H
ATOM	7265	OG	SER	G	109	5.054	59.068	-94.825	1.00	0.00	O
ATOM	7266	HG	SER	G	109	5.145	58.685	-95.736	1.00	0.00	H
ATOM	7267	N	ILE	G	110	3.906	58.234	-91.112	1.00	0.00	N
ATOM	7268	H	ILE	G	110	4.181	57.273	-91.301	1.00	0.00	H
ATOM	7269	CA	ILE	G	110	4.340	58.788	-89.833	1.00	0.00	C
ATOM	7270	HA	ILE	G	110	4.351	59.873	-89.907	1.00	0.00	H
ATOM	7271	C	ILE	G	110	5.779	58.334	-89.574	1.00	0.00	C
ATOM	7272	O	ILE	G	110	6.198	57.281	-90.057	1.00	0.00	O
ATOM	7273	CB	ILE	G	110	3.382	58.383	-88.683	1.00	0.00	C
ATOM	7274	HB	ILE	G	110	3.780	58.799	-87.757	1.00	0.00	H
ATOM	7275	CG1	ILE	G	110	3.295	56.851	-88.500	1.00	0.00	C
ATOM	7276	1HG1	ILE	G	110	3.053	56.384	-89.455	1.00	0.00	H
ATOM	7277	2HG1	ILE	G	110	4.273	56.490	-88.180	1.00	0.00	H
ATOM	7278	CG2	ILE	G	110	1.995	59.008	-88.898	1.00	0.00	C
ATOM	7279	1HG2	ILE	G	110	1.387	58.868	-88.008	1.00	0.00	H
ATOM	7280	2HG2	ILE	G	110	1.501	58.545	-89.751	1.00	0.00	H
ATOM	7281	3HG2	ILE	G	110	2.086	60.076	-89.080	1.00	0.00	H
ATOM	7282	CD1	ILE	G	110	2.259	56.372	-87.474	1.00	0.00	C
ATOM	7283	1HD1	ILE	G	110	2.362	56.931	-86.546	1.00	0.00	H
ATOM	7284	2HD1	ILE	G	110	2.410	55.312	-87.270	1.00	0.00	H
ATOM	7285	3HD1	ILE	G	110	1.252	56.509	-87.867	1.00	0.00	H
ATOM	7286	N	TYR	G	111	6.528	59.111	-88.799	1.00	0.00	N
ATOM	7287	H	TYR	G	111	6.092	59.931	-88.394	1.00	0.00	H
ATOM	7288	CA	TYR	G	111	7.878	58.800	-88.349	1.00	0.00	C
ATOM	7289	HA	TYR	G	111	8.116	57.795	-88.680	1.00	0.00	H
ATOM	7290	C	TYR	G	111	7.958	58.792	-86.822	1.00	0.00	C
ATOM	7291	O	TYR	G	111	7.122	59.366	-86.124	1.00	0.00	O
ATOM	7292	CB	TYR	G	111	8.912	59.741	-88.990	1.00	0.00	C
ATOM	7293	1HB	TYR	G	111	9.875	59.232	-88.991	1.00	0.00	H
ATOM	7294	2HB	TYR	G	111	8.645	59.904	-90.031	1.00	0.00	H
ATOM	7295	CG	TYR	G	111	9.103	61.077	-88.297	1.00	0.00	C
ATOM	7296	CD1	TYR	G	111	8.348	62.199	-88.684	1.00	0.00	C
ATOM	7297	HD1	TYR	G	111	7.614	62.111	-89.472	1.00	0.00	H
ATOM	7298	CD2	TYR	G	111	10.043	61.193	-87.255	1.00	0.00	C
ATOM	7299	HD2	TYR	G	111	10.629	60.331	-86.960	1.00	0.00	H
ATOM	7300	CE1	TYR	G	111	8.533	63.436	-88.037	1.00	0.00	C
ATOM	7301	HE1	TYR	G	111	7.952	64.296	-88.335	1.00	0.00	H
ATOM	7302	CE2	TYR	G	111	10.217	62.421	-86.590	1.00	0.00	C
ATOM	7303	HE2	TYR	G	111	10.925	62.501	-85.781	1.00	0.00	H
ATOM	7304	CZ	TYR	G	111	9.464	63.547	-86.982	1.00	0.00	C
ATOM	7305	OH	TYR	G	111	9.631	64.725	-86.326	1.00	0.00	O
ATOM	7306	HH	TYR	G	111	10.317	64.648	-85.658	1.00	0.00	H
ATOM	7307	N	VAL	G	112	8.980	58.116	-86.311	1.00	0.00	N
ATOM	7308	H	VAL	G	112	9.640	57.716	-86.973	1.00	0.00	H
ATOM	7309	CA	VAL	G	112	9.100	57.676	-84.918	1.00	0.00	C
ATOM	7310	HA	VAL	G	112	8.336	58.146	-84.299	1.00	0.00	H
ATOM	7311	C	VAL	G	112	10.485	58.060	-84.406	1.00	0.00	C
ATOM	7312	O	VAL	G	112	11.456	57.838	-85.123	1.00	0.00	O
ATOM	7313	CB	VAL	G	112	8.935	56.144	-84.870	1.00	0.00	C
ATOM	7314	HB	VAL	G	112	9.757	55.690	-85.422	1.00	0.00	H
ATOM	7315	CG1	VAL	G	112	8.989	55.627	-83.436	1.00	0.00	C
ATOM	7316	1HG1	VAL	G	112	8.225	56.113	-82.836	1.00	0.00	H
ATOM	7317	2HG1	VAL	G	112	9.969	55.831	-83.008	1.00	0.00	H
ATOM	7318	3HG1	VAL	G	112	8.831	54.548	-83.426	1.00	0.00	H
ATOM	7319	CG2	VAL	G	112	7.625	55.648	-85.498	1.00	0.00	C
ATOM	7320	1HG2	VAL	G	112	6.771	56.100	-84.997	1.00	0.00	H
ATOM	7321	2HG2	VAL	G	112	7.565	54.564	-85.406	1.00	0.00	H
ATOM	7322	3HG2	VAL	G	112	7.592	55.892	-86.559	1.00	0.00	H
ATOM	7323	N	GLY	G	113	10.598	58.608	-83.192	1.00	0.00	N
ATOM	7324	H	GLY	G	113	9.751	58.744	-82.646	1.00	0.00	H
ATOM	7325	CA	GLY	G	113	11.866	59.079	-82.614	1.00	0.00	C
ATOM	7326	1HA	GLY	G	113	12.697	58.518	-83.042	1.00	0.00	H
ATOM	7327	2HA	GLY	G	113	12.007	60.123	-82.879	1.00	0.00	H
ATOM	7328	C	GLY	G	113	11.944	58.963	-81.086	1.00	0.00	C
ATOM	7329	O	GLY	G	113	10.961	58.604	-80.437	1.00	0.00	O
ATOM	7330	N	ASN	G	114	13.127	59.259	-80.523	1.00	0.00	N
ATOM	7331	H	ASN	G	114	13.847	59.632	-81.127	1.00	0.00	H
ATOM	7332	CA	ASN	G	114	13.533	58.900	-79.151	1.00	0.00	C
ATOM	7333	HA	ASN	G	114	14.609	59.074	-79.073	1.00	0.00	H
ATOM	7334	C	ASN	G	114	13.314	57.395	-78.864	1.00	0.00	C
ATOM	7335	O	ASN	G	114	12.352	57.019	-78.197	1.00	0.00	O
ATOM	7336	CB	ASN	G	114	12.862	59.849	-78.133	1.00	0.00	C
ATOM	7337	1HB	ASN	G	114	13.090	60.881	-78.401	1.00	0.00	H
ATOM	7338	2HB	ASN	G	114	11.780	59.720	-78.163	1.00	0.00	H

ATOM	7339	CG	ASN	G	114	13.337	59.626	-76.704	1.00	0.00	C
ATOM	7340	OD1	ASN	G	114	14.214	60.300	-76.202	1.00	0.00	O
ATOM	7341	ND2	ASN	G	114	12.800	58.656	-76.002	1.00	0.00	N
ATOM	7342	1HD2	ASN	G	114	13.211	58.500	-75.102	1.00	0.00	H
ATOM	7343	2HD2	ASN	G	114	12.267	57.951	-76.505	1.00	0.00	H
ATOM	7344	N	VAL	G	115	14.185	56.528	-79.398	1.00	0.00	N
ATOM	7345	H	VAL	G	115	15.007	56.888	-79.858	1.00	0.00	H
ATOM	7346	CA	VAL	G	115	13.952	55.069	-79.487	1.00	0.00	C
ATOM	7347	HA	VAL	G	115	13.068	54.822	-78.897	1.00	0.00	H
ATOM	7348	C	VAL	G	115	15.122	54.264	-78.901	1.00	0.00	C
ATOM	7349	O	VAL	G	115	16.251	54.745	-78.809	1.00	0.00	O
ATOM	7350	CB	VAL	G	115	13.660	54.646	-80.950	1.00	0.00	C
ATOM	7351	HB	VAL	G	115	14.588	54.690	-81.519	1.00	0.00	H
ATOM	7352	CG1	VAL	G	115	13.088	53.223	-81.048	1.00	0.00	C
ATOM	7353	1HG1	VAL	G	115	13.859	52.488	-80.818	1.00	0.00	H
ATOM	7354	2HG1	VAL	G	115	12.754	53.020	-82.066	1.00	0.00	H
ATOM	7355	3HG1	VAL	G	115	12.244	53.106	-80.371	1.00	0.00	H
ATOM	7356	CG2	VAL	G	115	12.655	55.591	-81.625	1.00	0.00	C
ATOM	7357	1HG2	VAL	G	115	12.319	55.182	-82.577	1.00	0.00	H
ATOM	7358	2HG2	VAL	G	115	13.138	56.542	-81.834	1.00	0.00	H
ATOM	7359	3HG2	VAL	G	115	11.792	55.747	-80.980	1.00	0.00	H
ATOM	7360	N	ASP	G	116	14.831	53.034	-78.473	1.00	0.00	N
ATOM	7361	H	ASP	G	116	13.891	52.702	-78.618	1.00	0.00	H
ATOM	7362	CA	ASP	G	116	15.801	52.062	-77.965	1.00	0.00	C
ATOM	7363	HA	ASP	G	116	16.578	52.595	-77.415	1.00	0.00	H
ATOM	7364	C	ASP	G	116	16.460	51.257	-79.103	1.00	0.00	C
ATOM	7365	O	ASP	G	116	15.784	50.676	-79.956	1.00	0.00	O
ATOM	7366	CB	ASP	G	116	15.066	51.140	-76.985	1.00	0.00	C
ATOM	7367	1HB	ASP	G	116	14.560	51.756	-76.240	1.00	0.00	H
ATOM	7368	2HB	ASP	G	116	14.303	50.573	-77.522	1.00	0.00	H
ATOM	7369	CG	ASP	G	116	15.997	50.163	-76.268	1.00	0.00	C
ATOM	7370	OD1	ASP	G	116	16.014	50.166	-75.018	1.00	0.00	O
ATOM	7371	OD2	ASP	G	116	16.586	49.280	-76.922	1.00	0.00	O
ATOM	7372	N	TYR	G	117	17.793	51.188	-79.069	1.00	0.00	N
ATOM	7373	H	TYR	G	117	18.251	51.608	-78.278	1.00	0.00	H
ATOM	7374	CA	TYR	G	117	18.669	50.616	-80.099	1.00	0.00	C
ATOM	7375	HA	TYR	G	117	18.355	51.030	-81.058	1.00	0.00	H
ATOM	7376	C	TYR	G	117	18.603	49.081	-80.279	1.00	0.00	C
ATOM	7377	O	TYR	G	117	19.458	48.520	-80.965	1.00	0.00	O
ATOM	7378	CB	TYR	G	117	20.102	51.108	-79.822	1.00	0.00	C
ATOM	7379	1HB	TYR	G	117	20.777	50.707	-80.579	1.00	0.00	H
ATOM	7380	2HB	TYR	G	117	20.113	52.192	-79.935	1.00	0.00	H
ATOM	7381	CG	TYR	G	117	20.642	50.759	-78.444	1.00	0.00	C
ATOM	7382	CD1	TYR	G	117	20.681	51.738	-77.430	1.00	0.00	C
ATOM	7383	HD1	TYR	G	117	20.347	52.746	-77.635	1.00	0.00	H
ATOM	7384	CD2	TYR	G	117	21.079	49.448	-78.168	1.00	0.00	C
ATOM	7385	HD2	TYR	G	117	21.049	48.697	-78.947	1.00	0.00	H
ATOM	7386	CE1	TYR	G	117	21.144	51.403	-76.142	1.00	0.00	C
ATOM	7387	HE1	TYR	G	117	21.164	52.142	-75.356	1.00	0.00	H
ATOM	7388	CE2	TYR	G	117	21.531	49.106	-76.880	1.00	0.00	C
ATOM	7389	HE2	TYR	G	117	21.842	48.095	-76.675	1.00	0.00	H
ATOM	7390	CZ	TYR	G	117	21.558	50.085	-75.863	1.00	0.00	C
ATOM	7391	OH	TYR	G	117	21.990	49.754	-74.617	1.00	0.00	O
ATOM	7392	HH	TYR	G	117	22.204	48.823	-74.569	1.00	0.00	H
ATOM	7393	N	ALA	G	118	17.629	48.391	-79.678	1.00	0.00	N
ATOM	7394	H	ALA	G	118	17.021	48.893	-79.038	1.00	0.00	H
ATOM	7395	CA	ALA	G	118	17.384	46.954	-79.867	1.00	0.00	C
ATOM	7396	HA	ALA	G	118	18.118	46.557	-80.569	1.00	0.00	H
ATOM	7397	C	ALA	G	118	16.003	46.626	-80.487	1.00	0.00	C
ATOM	7398	O	ALA	G	118	15.688	45.449	-80.668	1.00	0.00	O
ATOM	7399	CB	ALA	G	118	17.608	46.259	-78.518	1.00	0.00	C
ATOM	7400	1HB	ALA	G	118	16.890	46.637	-77.792	1.00	0.00	H
ATOM	7401	2HB	ALA	G	118	18.619	46.461	-78.164	1.00	0.00	H
ATOM	7402	3HB	ALA	G	118	17.473	45.183	-78.634	1.00	0.00	H
ATOM	7403	N	CYS	G	119	15.204	47.648	-80.814	1.00	0.00	N
ATOM	7404	H	CYS	G	119	15.550	48.583	-80.647	1.00	0.00	H
ATOM	7405	CA	CYS	G	119	13.903	47.532	-81.484	1.00	0.00	C
ATOM	7406	HA	CYS	G	119	13.266	46.853	-80.914	1.00	0.00	H
ATOM	7407	C	CYS	G	119	14.011	46.987	-82.930	1.00	0.00	C
ATOM	7408	O	CYS	G	119	15.039	47.160	-83.589	1.00	0.00	O
ATOM	7409	CB	CYS	G	119	13.297	48.945	-81.461	1.00	0.00	C
ATOM	7410	1HB	CYS	G	119	13.404	49.369	-80.461	1.00	0.00	H
ATOM	7411	2HB	CYS	G	119	13.839	49.578	-82.166	1.00	0.00	H
ATOM	7412	SG	CYS	G	119	11.537	48.918	-81.890	1.00	0.00	S
ATOM	7413	HG	CYS	G	119	11.369	50.242	-81.982	1.00	0.00	H
ATOM	7414	N	THR	G	120	12.934	46.392	-83.457	1.00	0.00	N
ATOM	7415	H	THR	G	120	12.141	46.236	-82.840	1.00	0.00	H

ATOM	7416	CA	THR	G	120	12.879	45.765	-84.795	1.00	0.00	C
ATOM	7417	HA	THR	G	120	13.823	45.951	-85.303	1.00	0.00	H
ATOM	7418	C	THR	G	120	11.744	46.321	-85.674	1.00	0.00	C
ATOM	7419	O	THR	G	120	10.684	46.682	-85.157	1.00	0.00	O
ATOM	7420	CB	THR	G	120	12.708	44.238	-84.684	1.00	0.00	C
ATOM	7421	HB	THR	G	120	12.671	43.819	-85.689	1.00	0.00	H
ATOM	7422	OG1	THR	G	120	11.512	43.896	-84.021	1.00	0.00	O
ATOM	7423	HG1	THR	G	120	11.591	44.214	-83.093	1.00	0.00	H
ATOM	7424	CG2	THR	G	120	13.857	43.567	-83.933	1.00	0.00	C
ATOM	7425	1HG2	THR	G	120	14.803	43.824	-84.408	1.00	0.00	H
ATOM	7426	2HG2	THR	G	120	13.722	42.486	-83.964	1.00	0.00	H
ATOM	7427	3HG2	THR	G	120	13.876	43.897	-82.893	1.00	0.00	H
ATOM	7428	N	PRO	G	121	11.899	46.378	-87.016	1.00	0.00	N
ATOM	7429	CA	PRO	G	121	10.824	46.845	-87.898	1.00	0.00	C
ATOM	7430	HA	PRO	G	121	10.543	47.859	-87.615	1.00	0.00	H
ATOM	7431	C	PRO	G	121	9.569	45.965	-87.812	1.00	0.00	C
ATOM	7432	O	PRO	G	121	8.447	46.462	-87.896	1.00	0.00	O
ATOM	7433	CB	PRO	G	121	11.403	46.870	-89.318	1.00	0.00	C
ATOM	7434	1HB	PRO	G	121	10.725	46.407	-90.035	1.00	0.00	H
ATOM	7435	2HB	PRO	G	121	11.590	47.901	-89.613	1.00	0.00	H
ATOM	7436	CG	PRO	G	121	12.723	46.098	-89.255	1.00	0.00	C
ATOM	7437	1HG	PRO	G	121	12.586	45.105	-89.677	1.00	0.00	H
ATOM	7438	2HG	PRO	G	121	13.508	46.617	-89.807	1.00	0.00	H
ATOM	7439	CD	PRO	G	121	13.081	45.986	-87.772	1.00	0.00	C
ATOM	7440	1HD	PRO	G	121	13.372	44.961	-87.541	1.00	0.00	H
ATOM	7441	2HD	PRO	G	121	13.908	46.658	-87.540	1.00	0.00	H
ATOM	7442	N	GLU	G	122	9.748	44.659	-87.618	1.00	0.00	N
ATOM	7443	H	GLU	G	122	10.704	44.301	-87.615	1.00	0.00	H
ATOM	7444	CA	GLU	G	122	8.675	43.677	-87.470	1.00	0.00	C
ATOM	7445	HA	GLU	G	122	8.012	43.740	-88.329	1.00	0.00	H
ATOM	7446	C	GLU	G	122	7.803	43.941	-86.230	1.00	0.00	C
ATOM	7447	O	GLU	G	122	6.576	43.869	-86.328	1.00	0.00	O
ATOM	7448	CB	GLU	G	122	9.274	42.258	-87.449	1.00	0.00	C
ATOM	7449	1HB	GLU	G	122	10.021	42.184	-86.657	1.00	0.00	H
ATOM	7450	2HB	GLU	G	122	8.473	41.558	-87.210	1.00	0.00	H
ATOM	7451	CG	GLU	G	122	9.889	41.814	-88.796	1.00	0.00	C
ATOM	7452	1HG	GLU	G	122	10.164	40.761	-88.713	1.00	0.00	H
ATOM	7453	2HG	GLU	G	122	9.119	41.893	-89.567	1.00	0.00	H
ATOM	7454	CD	GLU	G	122	11.134	42.611	-89.228	1.00	0.00	C
ATOM	7455	OE1	GLU	G	122	11.291	42.869	-90.448	1.00	0.00	O
ATOM	7456	OE2	GLU	G	122	11.913	43.023	-88.342	1.00	0.00	O
ATOM	7457	N	GLU	G	123	8.384	44.314	-85.081	1.00	0.00	N
ATOM	7458	H	GLU	G	123	9.396	44.376	-85.021	1.00	0.00	H
ATOM	7459	CA	GLU	G	123	7.574	44.685	-83.912	1.00	0.00	C
ATOM	7460	HA	GLU	G	123	6.708	44.027	-83.908	1.00	0.00	H
ATOM	7461	C	GLU	G	123	7.015	46.115	-83.999	1.00	0.00	C
ATOM	7462	O	GLU	G	123	5.895	46.344	-83.544	1.00	0.00	O
ATOM	7463	CB	GLU	G	123	8.308	44.393	-82.593	1.00	0.00	C
ATOM	7464	1HB	GLU	G	123	7.561	44.217	-81.818	1.00	0.00	H
ATOM	7465	2HB	GLU	G	123	8.876	43.469	-82.713	1.00	0.00	H
ATOM	7466	CG	GLU	G	123	9.237	45.507	-82.104	1.00	0.00	C
ATOM	7467	1HG	GLU	G	123	9.746	45.956	-82.953	1.00	0.00	H
ATOM	7468	2HG	GLU	G	123	8.646	46.284	-81.614	1.00	0.00	H
ATOM	7469	CD	GLU	G	123	10.277	44.948	-81.138	1.00	0.00	C
ATOM	7470	OE1	GLU	G	123	11.458	44.855	-81.545	1.00	0.00	O
ATOM	7471	OE2	GLU	G	123	9.924	44.595	-79.990	1.00	0.00	O
ATOM	7472	N	VAL	G	124	7.713	47.057	-84.649	1.00	0.00	N
ATOM	7473	H	VAL	G	124	8.650	46.826	-84.970	1.00	0.00	H
ATOM	7474	CA	VAL	G	124	7.175	48.402	-84.937	1.00	0.00	C
ATOM	7475	HA	VAL	G	124	6.913	48.879	-83.996	1.00	0.00	H
ATOM	7476	C	VAL	G	124	5.869	48.317	-85.730	1.00	0.00	C
ATOM	7477	O	VAL	G	124	4.873	48.915	-85.317	1.00	0.00	O
ATOM	7478	CB	VAL	G	124	8.223	49.293	-85.638	1.00	0.00	C
ATOM	7479	HB	VAL	G	124	8.665	48.744	-86.468	1.00	0.00	H
ATOM	7480	CG1	VAL	G	124	7.643	50.605	-86.181	1.00	0.00	C
ATOM	7481	1HG1	VAL	G	124	8.441	51.217	-86.604	1.00	0.00	H
ATOM	7482	2HG1	VAL	G	124	7.156	51.151	-85.374	1.00	0.00	H
ATOM	7483	3HG1	VAL	G	124	6.920	50.405	-86.971	1.00	0.00	H
ATOM	7484	CG2	VAL	G	124	9.332	49.687	-84.656	1.00	0.00	C
ATOM	7485	1HG2	VAL	G	124	10.125	50.216	-85.184	1.00	0.00	H
ATOM	7486	2HG2	VAL	G	124	9.758	48.798	-84.196	1.00	0.00	H
ATOM	7487	3HG2	VAL	G	124	8.931	50.327	-83.870	1.00	0.00	H
ATOM	7488	N	GLN	G	125	5.824	47.533	-86.816	1.00	0.00	N
ATOM	7489	H	GLN	G	125	6.667	47.058	-87.127	1.00	0.00	H
ATOM	7490	CA	GLN	G	125	4.563	47.340	-87.540	1.00	0.00	C
ATOM	7491	HA	GLN	G	125	4.144	48.336	-87.697	1.00	0.00	H
ATOM	7492	C	GLN	G	125	3.508	46.595	-86.701	1.00	0.00	C

ATOM	7493	O	GLN	G	125	2.356	47.019	-86.713	1.00	0.00	O
ATOM	7494	CB	GLN	G	125	4.768	46.766	-88.957	1.00	0.00	C
ATOM	7495	1HB	GLN	G	125	3.806	46.778	-89.471	1.00	0.00	H
ATOM	7496	2HB	GLN	G	125	5.430	47.443	-89.497	1.00	0.00	H
ATOM	7497	CG	GLN	G	125	5.344	45.345	-89.049	1.00	0.00	C
ATOM	7498	1HG	GLN	G	125	6.253	45.300	-88.459	1.00	0.00	H
ATOM	7499	2HG	GLN	G	125	4.634	44.630	-88.637	1.00	0.00	H
ATOM	7500	CD	GLN	G	125	5.670	44.936	-90.491	1.00	0.00	C
ATOM	7501	OE1	GLN	G	125	4.841	44.990	-91.385	1.00	0.00	O
ATOM	7502	NE2	GLN	G	125	6.891	44.525	-90.762	1.00	0.00	N
ATOM	7503	1HE2	GLN	G	125	7.116	44.267	-91.727	1.00	0.00	H
ATOM	7504	2HE2	GLN	G	125	7.601	44.544	-90.060	1.00	0.00	H
ATOM	7505	N	GLN	G	126	3.853	45.567	-85.907	1.00	0.00	N
ATOM	7506	H	GLN	G	126	4.813	45.239	-85.909	1.00	0.00	H
ATOM	7507	CA	GLN	G	126	2.848	44.853	-85.090	1.00	0.00	C
ATOM	7508	HA	GLN	G	126	2.013	44.635	-85.759	1.00	0.00	H
ATOM	7509	C	GLN	G	126	2.250	45.705	-83.949	1.00	0.00	C
ATOM	7510	O	GLN	G	126	1.054	45.600	-83.662	1.00	0.00	O
ATOM	7511	CB	GLN	G	126	3.379	43.478	-84.622	1.00	0.00	C
ATOM	7512	1HB	GLN	G	126	2.551	42.770	-84.657	1.00	0.00	H
ATOM	7513	2HB	GLN	G	126	4.108	43.126	-85.353	1.00	0.00	H
ATOM	7514	CG	GLN	G	126	4.021	43.389	-83.222	1.00	0.00	C
ATOM	7515	1HG	GLN	G	126	4.688	42.527	-83.204	1.00	0.00	H
ATOM	7516	2HG	GLN	G	126	4.625	44.270	-83.031	1.00	0.00	H
ATOM	7517	CD	GLN	G	126	3.008	43.200	-82.092	1.00	0.00	C
ATOM	7518	OE1	GLN	G	126	2.242	42.252	-82.063	1.00	0.00	O
ATOM	7519	NE2	GLN	G	126	2.976	44.065	-81.103	1.00	0.00	N
ATOM	7520	1HE2	GLN	G	126	2.255	43.928	-80.418	1.00	0.00	H
ATOM	7521	2HE2	GLN	G	126	3.608	44.846	-81.064	1.00	0.00	H
ATOM	7522	N	HIS	G	127	3.048	46.580	-83.319	1.00	0.00	N
ATOM	7523	H	HIS	G	127	4.026	46.635	-83.594	1.00	0.00	H
ATOM	7524	CA	HIS	G	127	2.555	47.531	-82.316	1.00	0.00	C
ATOM	7525	HA	HIS	G	127	2.038	46.985	-81.525	1.00	0.00	H
ATOM	7526	C	HIS	G	127	1.528	48.487	-82.934	1.00	0.00	C
ATOM	7527	O	HIS	G	127	0.405	48.567	-82.442	1.00	0.00	O
ATOM	7528	CB	HIS	G	127	3.717	48.317	-81.683	1.00	0.00	C
ATOM	7529	1HB	HIS	G	127	4.508	48.460	-82.420	1.00	0.00	H
ATOM	7530	2HB	HIS	G	127	3.349	49.306	-81.406	1.00	0.00	H
ATOM	7531	CG	HIS	G	127	4.300	47.698	-80.432	1.00	0.00	C
ATOM	7532	ND1	HIS	G	127	4.152	48.170	-79.142	1.00	0.00	N
ATOM	7533	HD1	HIS	G	127	3.701	49.033	-78.854	1.00	0.00	H
ATOM	7534	CD2	HIS	G	127	5.137	46.616	-80.360	1.00	0.00	C
ATOM	7535	HD2	HIS	G	127	5.501	46.034	-81.192	1.00	0.00	H
ATOM	7536	CE1	HIS	G	127	4.851	47.372	-78.317	1.00	0.00	C
ATOM	7537	HE1	HIS	G	127	4.935	47.510	-77.244	1.00	0.00	H
ATOM	7538	NE2	HIS	G	127	5.479	46.413	-79.019	1.00	0.00	N
ATOM	7539	N	PHE	G	128	1.858	49.165	-84.040	1.00	0.00	N
ATOM	7540	H	PHE	G	128	2.793	49.078	-84.425	1.00	0.00	H
ATOM	7541	CA	PHE	G	128	0.902	50.074	-84.682	1.00	0.00	C
ATOM	7542	HA	PHE	G	128	0.482	50.719	-83.911	1.00	0.00	H
ATOM	7543	C	PHE	G	128	-0.308	49.340	-85.286	1.00	0.00	C
ATOM	7544	O	PHE	G	128	-1.431	49.819	-85.127	1.00	0.00	O
ATOM	7545	CB	PHE	G	128	1.620	50.970	-85.700	1.00	0.00	C
ATOM	7546	1HB	PHE	G	128	2.053	50.333	-86.474	1.00	0.00	H
ATOM	7547	2HB	PHE	G	128	0.879	51.611	-86.179	1.00	0.00	H
ATOM	7548	CG	PHE	G	128	2.710	51.870	-85.125	1.00	0.00	C
ATOM	7549	CD1	PHE	G	128	2.537	52.548	-83.898	1.00	0.00	C
ATOM	7550	HD1	PHE	G	128	1.625	52.437	-83.332	1.00	0.00	H
ATOM	7551	CD2	PHE	G	128	3.909	52.049	-85.840	1.00	0.00	C
ATOM	7552	HD2	PHE	G	128	4.059	51.528	-86.772	1.00	0.00	H
ATOM	7553	CE1	PHE	G	128	3.560	53.369	-83.387	1.00	0.00	C
ATOM	7554	HE1	PHE	G	128	3.435	53.856	-82.429	1.00	0.00	H
ATOM	7555	CE2	PHE	G	128	4.914	52.900	-85.350	1.00	0.00	C
ATOM	7556	HE2	PHE	G	128	5.820	53.042	-85.921	1.00	0.00	H
ATOM	7557	CZ	PHE	G	128	4.747	53.552	-84.116	1.00	0.00	C
ATOM	7558	HZ	PHE	G	128	5.528	54.189	-83.728	1.00	0.00	H
ATOM	7559	N	GLN	G	129	-0.126	48.141	-85.858	1.00	0.00	N
ATOM	7560	H	GLN	G	129	0.823	47.803	-85.981	1.00	0.00	H
ATOM	7561	CA	GLN	G	129	-1.223	47.297	-86.364	1.00	0.00	C
ATOM	7562	HA	GLN	G	129	-1.751	47.870	-87.121	1.00	0.00	H
ATOM	7563	C	GLN	G	129	-2.252	46.926	-85.283	1.00	0.00	C
ATOM	7564	O	GLN	G	129	-3.421	46.707	-85.594	1.00	0.00	O
ATOM	7565	CB	GLN	G	129	-0.655	46.040	-87.048	1.00	0.00	C
ATOM	7566	1HB	GLN	G	129	0.196	46.325	-87.660	1.00	0.00	H
ATOM	7567	2HB	GLN	G	129	-0.316	45.328	-86.295	1.00	0.00	H
ATOM	7568	CG	GLN	G	129	-1.675	45.367	-87.981	1.00	0.00	C
ATOM	7569	1HG	GLN	G	129	-2.500	44.965	-87.394	1.00	0.00	H

ATOM	7570	2HG	GLN	G	129	-2.071	46.107	-88.677	1.00	0.00	H
ATOM	7571	CD	GLN	G	129	-1.047	44.233	-88.784	1.00	0.00	C
ATOM	7572	OE1	GLN	G	129	-1.284	43.062	-88.541	1.00	0.00	O
ATOM	7573	NE2	GLN	G	129	-0.234	44.526	-89.778	1.00	0.00	N
ATOM	7574	1HE2	GLN	G	129	0.164	43.752	-90.277	1.00	0.00	H
ATOM	7575	2HE2	GLN	G	129	-0.029	45.479	-90.031	1.00	0.00	H
ATOM	7576	N	SER	G	130	-1.841	46.903	-84.009	1.00	0.00	N
ATOM	7577	H	SER	G	130	-0.869	47.109	-83.818	1.00	0.00	H
ATOM	7578	CA	SER	G	130	-2.738	46.690	-82.864	1.00	0.00	C
ATOM	7579	HA	SER	G	130	-3.358	45.819	-83.074	1.00	0.00	H
ATOM	7580	C	SER	G	130	-3.699	47.864	-82.592	1.00	0.00	C
ATOM	7581	O	SER	G	130	-4.654	47.687	-81.836	1.00	0.00	O
ATOM	7582	CB	SER	G	130	-1.925	46.387	-81.600	1.00	0.00	C
ATOM	7583	1HB	SER	G	130	-1.320	47.250	-81.328	1.00	0.00	H
ATOM	7584	2HB	SER	G	130	-2.614	46.185	-80.779	1.00	0.00	H
ATOM	7585	OG	SER	G	130	-1.095	45.250	-81.783	1.00	0.00	O
ATOM	7586	HG	SER	G	130	-0.422	45.444	-82.459	1.00	0.00	H
ATOM	7587	N	CYS	G	131	-3.487	49.029	-83.220	1.00	0.00	N
ATOM	7588	H	CYS	G	131	-2.668	49.099	-83.811	1.00	0.00	H
ATOM	7589	CA	CYS	G	131	-4.288	50.249	-83.041	1.00	0.00	C
ATOM	7590	HA	CYS	G	131	-5.157	50.029	-82.418	1.00	0.00	H
ATOM	7591	C	CYS	G	131	-4.840	50.840	-84.355	1.00	0.00	C
ATOM	7592	O	CYS	G	131	-5.841	51.550	-84.321	1.00	0.00	O
ATOM	7593	CB	CYS	G	131	-3.441	51.303	-82.315	1.00	0.00	C
ATOM	7594	1HB	CYS	G	131	-2.505	51.463	-82.852	1.00	0.00	H
ATOM	7595	2HB	CYS	G	131	-3.993	52.244	-82.294	1.00	0.00	H
ATOM	7596	SG	CYS	G	131	-3.091	50.808	-80.604	1.00	0.00	S
ATOM	7597	HG	CYS	G	131	-2.488	51.964	-80.273	1.00	0.00	H
ATOM	7598	N	GLY	G	132	-4.240	50.537	-85.510	1.00	0.00	N
ATOM	7599	H	GLY	G	132	-3.363	50.027	-85.486	1.00	0.00	H
ATOM	7600	CA	GLY	G	132	-4.750	50.916	-86.831	1.00	0.00	C
ATOM	7601	1HA	GLY	G	132	-5.813	50.682	-86.888	1.00	0.00	H
ATOM	7602	2HA	GLY	G	132	-4.623	51.989	-86.982	1.00	0.00	H
ATOM	7603	C	GLY	G	132	-4.010	50.176	-87.947	1.00	0.00	C
ATOM	7604	O	GLY	G	132	-2.840	49.835	-87.797	1.00	0.00	O
ATOM	7605	N	THR	G	133	-4.685	49.883	-89.063	1.00	0.00	N
ATOM	7606	H	THR	G	133	-5.625	50.230	-89.174	1.00	0.00	H
ATOM	7607	CA	THR	G	133	-4.051	49.147	-90.173	1.00	0.00	C
ATOM	7608	HA	THR	G	133	-3.659	48.221	-89.752	1.00	0.00	H
ATOM	7609	C	THR	G	133	-2.851	49.916	-90.741	1.00	0.00	C
ATOM	7610	O	THR	G	133	-2.899	51.130	-90.919	1.00	0.00	O
ATOM	7611	CB	THR	G	133	-5.064	48.727	-91.248	1.00	0.00	C
ATOM	7612	HB	THR	G	133	-5.837	48.130	-90.762	1.00	0.00	H
ATOM	7613	OG1	THR	G	133	-4.434	47.920	-92.211	1.00	0.00	O
ATOM	7614	HG1	THR	G	133	-4.158	48.498	-92.933	1.00	0.00	H
ATOM	7615	CG2	THR	G	133	-5.745	49.863	-92.000	1.00	0.00	C
ATOM	7616	1HG2	THR	G	133	-6.498	49.456	-92.674	1.00	0.00	H
ATOM	7617	2HG2	THR	G	133	-5.007	50.412	-92.582	1.00	0.00	H
ATOM	7618	3HG2	THR	G	133	-6.230	50.539	-91.298	1.00	0.00	H
ATOM	7619	N	VAL	G	134	-1.763	49.193	-91.003	1.00	0.00	N
ATOM	7620	H	VAL	G	134	-1.832	48.190	-90.925	1.00	0.00	H
ATOM	7621	CA	VAL	G	134	-0.430	49.719	-91.336	1.00	0.00	C
ATOM	7622	HA	VAL	G	134	-0.535	50.681	-91.836	1.00	0.00	H
ATOM	7623	C	VAL	G	134	0.253	48.742	-92.295	1.00	0.00	C
ATOM	7624	O	VAL	G	134	-0.034	47.543	-92.245	1.00	0.00	O
ATOM	7625	CB	VAL	G	134	0.382	49.942	-90.042	1.00	0.00	C
ATOM	7626	HB	VAL	G	134	-0.211	50.578	-89.383	1.00	0.00	H
ATOM	7627	CG1	VAL	G	134	0.688	48.647	-89.283	1.00	0.00	C
ATOM	7628	1HG1	VAL	G	134	-0.243	48.133	-89.059	1.00	0.00	H
ATOM	7629	2HG1	VAL	G	134	1.189	48.884	-88.346	1.00	0.00	H
ATOM	7630	3HG1	VAL	G	134	1.334	47.996	-89.873	1.00	0.00	H
ATOM	7631	CG2	VAL	G	134	1.700	50.671	-90.295	1.00	0.00	C
ATOM	7632	1HG2	VAL	G	134	1.505	51.612	-90.811	1.00	0.00	H
ATOM	7633	2HG2	VAL	G	134	2.374	50.059	-90.895	1.00	0.00	H
ATOM	7634	3HG2	VAL	G	134	2.179	50.887	-89.341	1.00	0.00	H
ATOM	7635	N	ASN	G	135	1.103	49.247	-93.192	1.00	0.00	N
ATOM	7636	H	ASN	G	135	1.273	50.250	-93.182	1.00	0.00	H
ATOM	7637	CA	ASN	G	135	1.593	48.500	-94.350	1.00	0.00	C
ATOM	7638	HA	ASN	G	135	1.184	47.488	-94.322	1.00	0.00	H
ATOM	7639	C	ASN	G	135	3.119	48.310	-94.307	1.00	0.00	C
ATOM	7640	O	ASN	G	135	3.550	47.262	-93.823	1.00	0.00	O
ATOM	7641	CB	ASN	G	135	1.024	49.159	-95.618	1.00	0.00	C
ATOM	7642	1HB	ASN	G	135	-0.059	49.076	-95.609	1.00	0.00	H
ATOM	7643	2HB	ASN	G	135	1.264	50.220	-95.618	1.00	0.00	H
ATOM	7644	CG	ASN	G	135	1.496	48.518	-96.908	1.00	0.00	C
ATOM	7645	OD1	ASN	G	135	1.490	47.309	-97.067	1.00	0.00	O
ATOM	7646	ND2	ASN	G	135	1.933	49.305	-97.856	1.00	0.00	N

ATOM	7647	1HD2	ASN	G	135	2.241	48.905	-98.717	1.00	0.00	H
ATOM	7648	2HD2	ASN	G	135	2.143	50.280	-97.606	1.00	0.00	H
ATOM	7649	N	ARG	G	136	3.959	49.235	-94.803	1.00	0.00	N
ATOM	7650	H	ARG	G	136	3.568	50.067	-95.251	1.00	0.00	H
ATOM	7651	CA	ARG	G	136	5.438	49.094	-94.787	1.00	0.00	C
ATOM	7652	HA	ARG	G	136	5.699	48.065	-94.549	1.00	0.00	H
ATOM	7653	C	ARG	G	136	6.094	49.897	-93.659	1.00	0.00	C
ATOM	7654	O	ARG	G	136	5.462	50.734	-93.019	1.00	0.00	O
ATOM	7655	CB	ARG	G	136	6.034	49.419	-96.179	1.00	0.00	C
ATOM	7656	1HB	ARG	G	136	5.408	50.147	-96.691	1.00	0.00	H
ATOM	7657	2HB	ARG	G	136	7.009	49.890	-96.053	1.00	0.00	H
ATOM	7658	CG	ARG	G	136	6.246	48.204	-97.106	1.00	0.00	C
ATOM	7659	1HG	ARG	G	136	6.600	48.588	-98.062	1.00	0.00	H
ATOM	7660	2HG	ARG	G	136	7.039	47.578	-96.696	1.00	0.00	H
ATOM	7661	CD	ARG	G	136	5.002	47.337	-97.375	1.00	0.00	C
ATOM	7662	1HD	ARG	G	136	4.161	48.000	-97.569	1.00	0.00	H
ATOM	7663	2HD	ARG	G	136	5.151	46.743	-98.274	1.00	0.00	H
ATOM	7664	NE	ARG	G	136	4.677	46.446	-96.247	1.00	0.00	N
ATOM	7665	HE	ARG	G	136	3.959	46.764	-95.614	1.00	0.00	H
ATOM	7666	CZ	ARG	G	136	5.309	45.374	-95.822	1.00	0.00	C
ATOM	7667	NH1	ARG	G	136	6.202	44.753	-96.525	1.00	0.00	N
ATOM	7668	1HH1	ARG	G	136	6.418	45.060	-97.460	1.00	0.00	H
ATOM	7669	2HH1	ARG	G	136	6.595	43.916	-96.089	1.00	0.00	H
ATOM	7670	NH2	ARG	G	136	5.080	44.901	-94.637	1.00	0.00	N
ATOM	7671	1HH2	ARG	G	136	4.502	45.403	-93.971	1.00	0.00	H
ATOM	7672	2HH2	ARG	G	136	5.645	44.104	-94.338	1.00	0.00	H
ATOM	7673	N	VAL	G	137	7.362	49.566	-93.389	1.00	0.00	N
ATOM	7674	H	VAL	G	137	7.808	48.896	-93.995	1.00	0.00	H
ATOM	7675	CA	VAL	G	137	8.144	50.013	-92.225	1.00	0.00	C
ATOM	7676	HA	VAL	G	137	7.883	51.048	-92.012	1.00	0.00	H
ATOM	7677	C	VAL	G	137	9.649	49.938	-92.509	1.00	0.00	C
ATOM	7678	O	VAL	G	137	10.134	48.901	-92.958	1.00	0.00	O
ATOM	7679	CB	VAL	G	137	7.786	49.149	-90.988	1.00	0.00	C
ATOM	7680	HB	VAL	G	137	6.728	49.300	-90.779	1.00	0.00	H
ATOM	7681	CG1	VAL	G	137	7.963	47.636	-91.181	1.00	0.00	C
ATOM	7682	1HG1	VAL	G	137	9.003	47.382	-91.363	1.00	0.00	H
ATOM	7683	2HG1	VAL	G	137	7.349	47.282	-92.009	1.00	0.00	H
ATOM	7684	3HG1	VAL	G	137	7.641	47.125	-90.278	1.00	0.00	H
ATOM	7685	CG2	VAL	G	137	8.570	49.555	-89.732	1.00	0.00	C
ATOM	7686	1HG2	VAL	G	137	8.175	49.017	-88.871	1.00	0.00	H
ATOM	7687	2HG2	VAL	G	137	8.464	50.623	-89.551	1.00	0.00	H
ATOM	7688	3HG2	VAL	G	137	9.626	49.317	-89.844	1.00	0.00	H
ATOM	7689	N	THR	G	138	10.402	50.990	-92.173	1.00	0.00	N
ATOM	7690	H	THR	G	138	9.934	51.797	-91.775	1.00	0.00	H
ATOM	7691	CA	THR	G	138	11.881	51.012	-92.235	1.00	0.00	C
ATOM	7692	HA	THR	G	138	12.243	49.985	-92.218	1.00	0.00	H
ATOM	7693	C	THR	G	138	12.445	51.726	-91.006	1.00	0.00	C
ATOM	7694	O	THR	G	138	11.819	52.639	-90.464	1.00	0.00	O
ATOM	7695	CB	THR	G	138	12.418	51.659	-93.532	1.00	0.00	C
ATOM	7696	HB	THR	G	138	12.100	52.700	-93.582	1.00	0.00	H
ATOM	7697	OG1	THR	G	138	11.928	50.966	-94.655	1.00	0.00	O
ATOM	7698	HG1	THR	G	138	12.192	51.460	-95.437	1.00	0.00	H
ATOM	7699	CG2	THR	G	138	13.938	51.596	-93.686	1.00	0.00	C
ATOM	7700	1HG2	THR	G	138	14.422	52.216	-92.933	1.00	0.00	H
ATOM	7701	2HG2	THR	G	138	14.231	51.987	-94.661	1.00	0.00	H
ATOM	7702	3HG2	THR	G	138	14.288	50.568	-93.592	1.00	0.00	H
ATOM	7703	N	ILE	G	139	13.610	51.255	-90.558	1.00	0.00	N
ATOM	7704	H	ILE	G	139	14.073	50.555	-91.120	1.00	0.00	H
ATOM	7705	CA	ILE	G	139	14.340	51.638	-89.345	1.00	0.00	C
ATOM	7706	HA	ILE	G	139	14.243	52.715	-89.189	1.00	0.00	H
ATOM	7707	C	ILE	G	139	15.821	51.293	-89.567	1.00	0.00	C
ATOM	7708	O	ILE	G	139	16.129	50.238	-90.135	1.00	0.00	O
ATOM	7709	CB	ILE	G	139	13.746	50.881	-88.128	1.00	0.00	C
ATOM	7710	HB	ILE	G	139	12.689	51.147	-88.080	1.00	0.00	H
ATOM	7711	CG1	ILE	G	139	14.389	51.294	-86.787	1.00	0.00	C
ATOM	7712	1HG1	ILE	G	139	15.427	50.962	-86.754	1.00	0.00	H
ATOM	7713	2HG1	ILE	G	139	14.383	52.379	-86.714	1.00	0.00	H
ATOM	7714	CG2	ILE	G	139	13.821	49.351	-88.282	1.00	0.00	C
ATOM	7715	1HG2	ILE	G	139	13.147	48.882	-87.568	1.00	0.00	H
ATOM	7716	2HG2	ILE	G	139	14.838	48.999	-88.103	1.00	0.00	H
ATOM	7717	3HG2	ILE	G	139	13.521	49.047	-89.282	1.00	0.00	H
ATOM	7718	CD1	ILE	G	139	13.647	50.722	-85.565	1.00	0.00	C
ATOM	7719	1HD1	ILE	G	139	12.590	50.988	-85.612	1.00	0.00	H
ATOM	7720	2HD1	ILE	G	139	14.067	51.131	-84.648	1.00	0.00	H
ATOM	7721	3HD1	ILE	G	139	13.749	49.638	-85.523	1.00	0.00	H
ATOM	7722	N	LEU	G	140	16.739	52.160	-89.132	1.00	0.00	N
ATOM	7723	H	LEU	G	140	16.417	53.004	-88.679	1.00	0.00	H

ATOM	7724	CA	LEU	G	140	18.182	51.957	-89.322	1.00	0.00	C
ATOM	7725	HA	LEU	G	140	18.376	50.890	-89.203	1.00	0.00	H
ATOM	7726	C	LEU	G	140	19.012	52.657	-88.230	1.00	0.00	C
ATOM	7727	O	LEU	G	140	18.760	52.459	-87.043	1.00	0.00	O
ATOM	7728	CB	LEU	G	140	18.571	52.341	-90.768	1.00	0.00	C
ATOM	7729	1HB	LEU	G	140	17.776	52.013	-91.437	1.00	0.00	H
ATOM	7730	2HB	LEU	G	140	18.621	53.425	-90.828	1.00	0.00	H
ATOM	7731	CG	LEU	G	140	19.887	51.740	-91.305	1.00	0.00	C
ATOM	7732	HG	LEU	G	140	20.670	51.817	-90.553	1.00	0.00	H
ATOM	7733	CD1	LEU	G	140	19.741	50.268	-91.677	1.00	0.00	C
ATOM	7734	1HD1	LEU	G	140	19.430	49.689	-90.808	1.00	0.00	H
ATOM	7735	2HD1	LEU	G	140	20.688	49.875	-92.041	1.00	0.00	H
ATOM	7736	3HD1	LEU	G	140	18.986	50.166	-92.458	1.00	0.00	H
ATOM	7737	CD2	LEU	G	140	20.366	52.500	-92.540	1.00	0.00	C
ATOM	7738	1HD2	LEU	G	140	19.608	52.429	-93.325	1.00	0.00	H
ATOM	7739	2HD2	LEU	G	140	21.302	52.083	-92.905	1.00	0.00	H
ATOM	7740	3HD2	LEU	G	140	20.502	53.554	-92.299	1.00	0.00	H
ATOM	7741	N	THR	G	141	20.105	53.336	-88.596	1.00	0.00	N
ATOM	7742	H	THR	G	141	20.211	53.546	-89.578	1.00	0.00	H
ATOM	7743	CA	THR	G	141	21.265	53.549	-87.718	1.00	0.00	C
ATOM	7744	HA	THR	G	141	20.920	53.954	-86.771	1.00	0.00	H
ATOM	7745	C	THR	G	141	22.269	54.539	-88.331	1.00	0.00	C
ATOM	7746	O	THR	G	141	22.958	54.201	-89.298	1.00	0.00	O
ATOM	7747	CB	THR	G	141	21.940	52.170	-87.479	1.00	0.00	C
ATOM	7748	HB	THR	G	141	22.007	51.649	-88.435	1.00	0.00	H
ATOM	7749	OG1	THR	G	141	21.177	51.371	-86.608	1.00	0.00	O
ATOM	7750	HG1	THR	G	141	20.242	51.645	-86.675	1.00	0.00	H
ATOM	7751	CG2	THR	G	141	23.335	52.161	-86.855	1.00	0.00	C
ATOM	7752	1HG2	THR	G	141	24.070	52.421	-87.608	1.00	0.00	H
ATOM	7753	2HG2	THR	G	141	23.570	51.160	-86.489	1.00	0.00	H
ATOM	7754	3HG2	THR	G	141	23.385	52.863	-86.026	1.00	0.00	H
ATOM	7755	N	ASP	G	142	22.430	55.727	-87.735	1.00	0.00	N
ATOM	7756	H	ASP	G	142	21.687	56.027	-87.101	1.00	0.00	H
ATOM	7757	CA	ASP	G	142	23.608	56.618	-87.858	1.00	0.00	C
ATOM	7758	HA	ASP	G	142	23.727	56.859	-88.914	1.00	0.00	H
ATOM	7759	C	ASP	G	142	24.931	55.911	-87.428	1.00	0.00	C
ATOM	7760	O	ASP	G	142	24.935	54.735	-87.069	1.00	0.00	O
ATOM	7761	CB	ASP	G	142	23.308	57.966	-87.140	1.00	0.00	C
ATOM	7762	1HB	ASP	G	142	23.022	58.697	-87.898	1.00	0.00	H
ATOM	7763	2HB	ASP	G	142	22.456	57.869	-86.477	1.00	0.00	H
ATOM	7764	CG	ASP	G	142	24.473	58.530	-86.328	1.00	0.00	C
ATOM	7765	OD1	ASP	G	142	25.376	59.101	-86.976	1.00	0.00	O
ATOM	7766	OD2	ASP	G	142	24.600	58.178	-85.130	1.00	0.00	O
ATOM	7767	N	LYS	G	143	26.104	56.548	-87.538	1.00	0.00	N
ATOM	7768	H	LYS	G	143	26.058	57.547	-87.749	1.00	0.00	H
ATOM	7769	CA	LYS	G	143	27.396	55.994	-87.078	1.00	0.00	C
ATOM	7770	HA	LYS	G	143	27.182	55.290	-86.272	1.00	0.00	H
ATOM	7771	C	LYS	G	143	28.326	57.007	-86.380	1.00	0.00	C
ATOM	7772	O	LYS	G	143	29.488	56.690	-86.150	1.00	0.00	O
ATOM	7773	CB	LYS	G	143	28.063	55.222	-88.242	1.00	0.00	C
ATOM	7774	1HB	LYS	G	143	27.534	55.442	-89.170	1.00	0.00	H
ATOM	7775	2HB	LYS	G	143	29.089	55.562	-88.390	1.00	0.00	H
ATOM	7776	CG	LYS	G	143	28.088	53.696	-87.995	1.00	0.00	C
ATOM	7777	1HG	LYS	G	143	29.047	53.450	-87.537	1.00	0.00	H
ATOM	7778	2HG	LYS	G	143	27.310	53.402	-87.289	1.00	0.00	H
ATOM	7779	CD	LYS	G	143	27.920	52.857	-89.277	1.00	0.00	C
ATOM	7780	1HD	LYS	G	143	28.341	53.391	-90.131	1.00	0.00	H
ATOM	7781	2HD	LYS	G	143	28.490	51.935	-89.155	1.00	0.00	H
ATOM	7782	CE	LYS	G	143	26.459	52.459	-89.563	1.00	0.00	C
ATOM	7783	1HE	LYS	G	143	26.418	51.920	-90.514	1.00	0.00	H
ATOM	7784	2HE	LYS	G	143	26.128	51.773	-88.777	1.00	0.00	H
ATOM	7785	NZ	LYS	G	143	25.549	53.625	-89.601	1.00	0.00	N
ATOM	7786	1HZ	LYS	G	143	24.577	53.369	-89.779	1.00	0.00	H
ATOM	7787	2HZ	LYS	G	143	25.815	54.313	-90.287	1.00	0.00	H
ATOM	7788	3HZ	LYS	G	143	25.502	54.064	-88.681	1.00	0.00	H
ATOM	7789	N	PHE	G	144	27.832	58.194	-86.020	1.00	0.00	N
ATOM	7790	H	PHE	G	144	26.869	58.419	-86.264	1.00	0.00	H
ATOM	7791	CA	PHE	G	144	28.523	59.161	-85.161	1.00	0.00	C
ATOM	7792	HA	PHE	G	144	29.559	59.253	-85.487	1.00	0.00	H
ATOM	7793	C	PHE	G	144	28.544	58.722	-83.688	1.00	0.00	C
ATOM	7794	O	PHE	G	144	29.613	58.722	-83.082	1.00	0.00	O
ATOM	7795	CB	PHE	G	144	27.831	60.528	-85.311	1.00	0.00	C
ATOM	7796	1HB	PHE	G	144	28.001	60.899	-86.322	1.00	0.00	H
ATOM	7797	2HB	PHE	G	144	26.756	60.380	-85.197	1.00	0.00	H
ATOM	7798	CG	PHE	G	144	28.253	61.605	-84.323	1.00	0.00	C
ATOM	7799	CD1	PHE	G	144	29.615	61.853	-84.058	1.00	0.00	C
ATOM	7800	HD1	PHE	G	144	30.378	61.269	-84.552	1.00	0.00	H

ATOM	7801	CD2	PHE	G	144	27.269	62.359	-83.655	1.00	0.00	C
ATOM	7802	HD2	PHE	G	144	26.219	62.184	-83.857	1.00	0.00	H
ATOM	7803	CE1	PHE	G	144	29.987	62.831	-83.117	1.00	0.00	C
ATOM	7804	HE1	PHE	G	144	31.031	62.996	-82.897	1.00	0.00	H
ATOM	7805	CE2	PHE	G	144	27.641	63.338	-82.717	1.00	0.00	C
ATOM	7806	HE2	PHE	G	144	26.875	63.899	-82.199	1.00	0.00	H
ATOM	7807	CZ	PHE	G	144	29.000	63.572	-82.445	1.00	0.00	C
ATOM	7808	HZ	PHE	G	144	29.281	64.313	-81.711	1.00	0.00	H
ATOM	7809	N	GLY	G	145	27.393	58.332	-83.120	1.00	0.00	N
ATOM	7810	H	GLY	G	145	26.556	58.322	-83.692	1.00	0.00	H
ATOM	7811	CA	GLY	G	145	27.322	57.873	-81.720	1.00	0.00	C
ATOM	7812	1HA	GLY	G	145	27.483	56.795	-81.704	1.00	0.00	H
ATOM	7813	2HA	GLY	G	145	28.126	58.336	-81.147	1.00	0.00	H
ATOM	7814	C	GLY	G	145	26.022	58.152	-80.954	1.00	0.00	C
ATOM	7815	O	GLY	G	145	25.945	57.811	-79.777	1.00	0.00	O
ATOM	7816	N	GLN	G	146	25.019	58.768	-81.586	1.00	0.00	N
ATOM	7817	H	GLN	G	146	25.145	59.019	-82.554	1.00	0.00	H
ATOM	7818	CA	GLN	G	146	23.667	58.941	-81.025	1.00	0.00	C
ATOM	7819	HA	GLN	G	146	23.731	59.502	-80.092	1.00	0.00	H
ATOM	7820	C	GLN	G	146	22.992	57.581	-80.720	1.00	0.00	C
ATOM	7821	O	GLN	G	146	23.425	56.566	-81.280	1.00	0.00	O
ATOM	7822	CB	GLN	G	146	22.851	59.748	-82.052	1.00	0.00	C
ATOM	7823	1HB	GLN	G	146	23.005	59.327	-83.047	1.00	0.00	H
ATOM	7824	2HB	GLN	G	146	21.788	59.681	-81.829	1.00	0.00	H
ATOM	7825	CG	GLN	G	146	23.257	61.230	-82.052	1.00	0.00	C
ATOM	7826	1HG	GLN	G	146	22.883	61.701	-81.147	1.00	0.00	H
ATOM	7827	2HG	GLN	G	146	24.343	61.319	-82.058	1.00	0.00	H
ATOM	7828	CD	GLN	G	146	22.720	61.974	-83.267	1.00	0.00	C
ATOM	7829	OE1	GLN	G	146	23.455	62.282	-84.192	1.00	0.00	O
ATOM	7830	NE2	GLN	G	146	21.448	62.299	-83.314	1.00	0.00	N
ATOM	7831	1HE2	GLN	G	146	21.105	62.720	-84.156	1.00	0.00	H
ATOM	7832	2HE2	GLN	G	146	20.816	62.063	-82.554	1.00	0.00	H
ATOM	7833	N	PRO	G	147	21.897	57.519	-79.928	1.00	0.00	N
ATOM	7834	CA	PRO	G	147	21.039	56.329	-79.856	1.00	0.00	C
ATOM	7835	HA	PRO	G	147	21.631	55.469	-79.545	1.00	0.00	H
ATOM	7836	C	PRO	G	147	20.415	56.005	-81.225	1.00	0.00	C
ATOM	7837	O	PRO	G	147	20.644	56.717	-82.205	1.00	0.00	O
ATOM	7838	CB	PRO	G	147	19.995	56.628	-78.774	1.00	0.00	C
ATOM	7839	1HB	PRO	G	147	19.032	56.154	-78.968	1.00	0.00	H
ATOM	7840	2HB	PRO	G	147	20.381	56.312	-77.804	1.00	0.00	H
ATOM	7841	CG	PRO	G	147	19.888	58.148	-78.799	1.00	0.00	C
ATOM	7842	1HG	PRO	G	147	19.192	58.451	-79.581	1.00	0.00	H
ATOM	7843	2HG	PRO	G	147	19.569	58.539	-77.833	1.00	0.00	H
ATOM	7844	CD	PRO	G	147	21.301	58.607	-79.162	1.00	0.00	C
ATOM	7845	1HD	PRO	G	147	21.245	59.532	-79.732	1.00	0.00	H
ATOM	7846	2HD	PRO	G	147	21.875	58.764	-78.250	1.00	0.00	H
ATOM	7847	N	LYS	G	148	19.680	54.894	-81.338	1.00	0.00	N
ATOM	7848	H	LYS	G	148	19.407	54.395	-80.502	1.00	0.00	H
ATOM	7849	CA	LYS	G	148	19.194	54.366	-82.623	1.00	0.00	C
ATOM	7850	HA	LYS	G	148	19.155	55.172	-83.358	1.00	0.00	H
ATOM	7851	C	LYS	G	148	17.773	53.830	-82.523	1.00	0.00	C
ATOM	7852	O	LYS	G	148	17.369	53.347	-81.471	1.00	0.00	O
ATOM	7853	CB	LYS	G	148	20.123	53.248	-83.146	1.00	0.00	C
ATOM	7854	1HB	LYS	G	148	20.545	52.670	-82.324	1.00	0.00	H
ATOM	7855	2HB	LYS	G	148	19.530	52.561	-83.754	1.00	0.00	H
ATOM	7856	CG	LYS	G	148	21.234	53.775	-84.059	1.00	0.00	C
ATOM	7857	1HG	LYS	G	148	21.526	52.963	-84.713	1.00	0.00	H
ATOM	7858	2HG	LYS	G	148	20.821	54.567	-84.676	1.00	0.00	H
ATOM	7859	CD	LYS	G	148	22.508	54.249	-83.352	1.00	0.00	C
ATOM	7860	1HD	LYS	G	148	22.277	54.608	-82.356	1.00	0.00	H
ATOM	7861	2HD	LYS	G	148	23.174	53.393	-83.231	1.00	0.00	H
ATOM	7862	CE	LYS	G	148	23.246	55.343	-84.137	1.00	0.00	C
ATOM	7863	1HE	LYS	G	148	24.181	55.556	-83.612	1.00	0.00	H
ATOM	7864	2HE	LYS	G	148	23.487	54.982	-85.139	1.00	0.00	H
ATOM	7865	NZ	LYS	G	148	22.466	56.600	-84.222	1.00	0.00	N
ATOM	7866	1HZ	LYS	G	148	22.058	56.824	-83.317	1.00	0.00	H
ATOM	7867	2HZ	LYS	G	148	21.678	56.534	-84.871	1.00	0.00	H
ATOM	7868	3HZ	LYS	G	148	23.070	57.368	-84.509	1.00	0.00	H
ATOM	7869	N	GLY	G	149	17.064	53.885	-83.645	1.00	0.00	N
ATOM	7870	H	GLY	G	149	17.493	54.354	-84.441	1.00	0.00	H
ATOM	7871	CA	GLY	G	149	15.744	53.285	-83.838	1.00	0.00	C
ATOM	7872	1HA	GLY	G	149	15.858	52.457	-84.535	1.00	0.00	H
ATOM	7873	2HA	GLY	G	149	15.360	52.891	-82.898	1.00	0.00	H
ATOM	7874	C	GLY	G	149	14.705	54.246	-84.422	1.00	0.00	C
ATOM	7875	O	GLY	G	149	13.524	53.911	-84.451	1.00	0.00	O
ATOM	7876	N	PHE	G	150	15.118	55.442	-84.854	1.00	0.00	N
ATOM	7877	H	PHE	G	150	16.116	55.626	-84.876	1.00	0.00	H



ATOM	7878	CA	PHE	G	150	14.264	56.361	-85.612	1.00	0.00	C
ATOM	7879	HA	PHE	G	150	13.368	56.522	-85.020	1.00	0.00	H
ATOM	7880	C	PHE	G	150	13.820	55.674	-86.920	1.00	0.00	C
ATOM	7881	O	PHE	G	150	14.550	54.867	-87.503	1.00	0.00	O
ATOM	7882	CB	PHE	G	150	15.019	57.704	-85.697	1.00	0.00	C
ATOM	7883	1HB	PHE	G	150	14.916	58.165	-84.715	1.00	0.00	H
ATOM	7884	2HB	PHE	G	150	16.072	57.479	-85.801	1.00	0.00	H
ATOM	7885	CG	PHE	G	150	14.715	58.790	-86.720	1.00	0.00	C
ATOM	7886	CD1	PHE	G	150	15.685	59.093	-87.697	1.00	0.00	C
ATOM	7887	HD1	PHE	G	150	16.544	58.454	-87.823	1.00	0.00	H
ATOM	7888	CD2	PHE	G	150	13.661	59.700	-86.520	1.00	0.00	C
ATOM	7889	HD2	PHE	G	150	12.974	59.555	-85.705	1.00	0.00	H
ATOM	7890	CE1	PHE	G	150	15.608	60.272	-88.453	1.00	0.00	C
ATOM	7891	HE1	PHE	G	150	16.377	60.496	-89.179	1.00	0.00	H
ATOM	7892	CE2	PHE	G	150	13.562	60.867	-87.301	1.00	0.00	C
ATOM	7893	HE2	PHE	G	150	12.771	61.575	-87.120	1.00	0.00	H
ATOM	7894	CZ	PHE	G	150	14.540	61.159	-88.262	1.00	0.00	C
ATOM	7895	HZ	PHE	G	150	14.484	62.073	-88.837	1.00	0.00	H
ATOM	7896	N	ALA	G	151	12.553	55.858	-87.287	1.00	0.00	N
ATOM	7897	H	ALA	G	151	12.005	56.542	-86.780	1.00	0.00	H
ATOM	7898	CA	ALA	G	151	11.845	54.936	-88.182	1.00	0.00	C
ATOM	7899	HA	ALA	G	151	12.521	54.600	-88.971	1.00	0.00	H
ATOM	7900	C	ALA	G	151	10.627	55.595	-88.841	1.00	0.00	C
ATOM	7901	O	ALA	G	151	10.252	56.706	-88.468	1.00	0.00	O
ATOM	7902	CB	ALA	G	151	11.396	53.720	-87.351	1.00	0.00	C
ATOM	7903	1HB	ALA	G	151	10.937	52.970	-87.994	1.00	0.00	H
ATOM	7904	2HB	ALA	G	151	10.676	54.022	-86.594	1.00	0.00	H
ATOM	7905	3HB	ALA	G	151	12.254	53.274	-86.853	1.00	0.00	H
ATOM	7906	N	TYR	G	152	9.969	54.893	-89.767	1.00	0.00	N
ATOM	7907	H	TYR	G	152	10.329	53.976	-90.017	1.00	0.00	H
ATOM	7908	CA	TYR	G	152	8.678	55.298	-90.341	1.00	0.00	C
ATOM	7909	HA	TYR	G	152	8.194	55.970	-89.640	1.00	0.00	H
ATOM	7910	C	TYR	G	152	7.726	54.107	-90.535	1.00	0.00	C
ATOM	7911	O	TYR	G	152	8.182	52.964	-90.590	1.00	0.00	O
ATOM	7912	CB	TYR	G	152	8.892	56.053	-91.673	1.00	0.00	C
ATOM	7913	1HB	TYR	G	152	8.201	56.895	-91.702	1.00	0.00	H
ATOM	7914	2HB	TYR	G	152	9.898	56.474	-91.709	1.00	0.00	H
ATOM	7915	CG	TYR	G	152	8.661	55.203	-92.913	1.00	0.00	C
ATOM	7916	CD1	TYR	G	152	7.501	55.384	-93.696	1.00	0.00	C
ATOM	7917	HD1	TYR	G	152	6.788	56.149	-93.428	1.00	0.00	H
ATOM	7918	CD2	TYR	G	152	9.554	54.161	-93.218	1.00	0.00	C
ATOM	7919	HD2	TYR	G	152	10.435	54.011	-92.610	1.00	0.00	H
ATOM	7920	CE1	TYR	G	152	7.239	54.535	-94.791	1.00	0.00	C
ATOM	7921	HE1	TYR	G	152	6.347	54.666	-95.385	1.00	0.00	H
ATOM	7922	CE2	TYR	G	152	9.279	53.297	-94.293	1.00	0.00	C
ATOM	7923	HE2	TYR	G	152	9.936	52.482	-94.538	1.00	0.00	H
ATOM	7924	CZ	TYR	G	152	8.129	53.478	-95.081	1.00	0.00	C
ATOM	7925	OH	TYR	G	152	7.900	52.605	-96.095	1.00	0.00	O
ATOM	7926	HH	TYR	G	152	7.162	52.847	-96.666	1.00	0.00	H
ATOM	7927	N	VAL	G	153	6.431	54.399	-90.715	1.00	0.00	N
ATOM	7928	H	VAL	G	153	6.162	55.375	-90.640	1.00	0.00	H
ATOM	7929	CA	VAL	G	153	5.421	53.491	-91.299	1.00	0.00	C
ATOM	7930	HA	VAL	G	153	5.937	52.799	-91.959	1.00	0.00	H
ATOM	7931	C	VAL	G	153	4.407	54.265	-92.158	1.00	0.00	C
ATOM	7932	O	VAL	G	153	4.355	55.492	-92.074	1.00	0.00	O
ATOM	7933	CB	VAL	G	153	4.662	52.669	-90.232	1.00	0.00	C
ATOM	7934	HB	VAL	G	153	4.003	51.989	-90.765	1.00	0.00	H
ATOM	7935	CG1	VAL	G	153	5.577	51.806	-89.366	1.00	0.00	C
ATOM	7936	1HG1	VAL	G	153	6.150	52.423	-88.674	1.00	0.00	H
ATOM	7937	2HG1	VAL	G	153	6.260	51.277	-90.018	1.00	0.00	H
ATOM	7938	3HG1	VAL	G	153	4.987	51.076	-88.813	1.00	0.00	H
ATOM	7939	CG2	VAL	G	153	3.805	53.520	-89.289	1.00	0.00	C
ATOM	7940	1HG2	VAL	G	153	4.441	54.208	-88.734	1.00	0.00	H
ATOM	7941	2HG2	VAL	G	153	3.276	52.880	-88.585	1.00	0.00	H
ATOM	7942	3HG2	VAL	G	153	3.062	54.077	-89.857	1.00	0.00	H
ATOM	7943	N	GLU	G	154	3.566	53.576	-92.939	1.00	0.00	N
ATOM	7944	H	GLU	G	154	3.669	52.569	-92.990	1.00	0.00	H
ATOM	7945	CA	GLU	G	154	2.449	54.176	-93.703	1.00	0.00	C
ATOM	7946	HA	GLU	G	154	2.113	55.067	-93.174	1.00	0.00	H
ATOM	7947	C	GLU	G	154	1.201	53.280	-93.814	1.00	0.00	C
ATOM	7948	O	GLU	G	154	1.245	52.092	-93.475	1.00	0.00	O
ATOM	7949	CB	GLU	G	154	2.925	54.634	-95.102	1.00	0.00	C
ATOM	7950	1HB	GLU	G	154	2.091	55.067	-95.652	1.00	0.00	H
ATOM	7951	2HB	GLU	G	154	3.637	55.434	-94.946	1.00	0.00	H
ATOM	7952	CG	GLU	G	154	3.622	53.608	-96.006	1.00	0.00	C
ATOM	7953	1HG	GLU	G	154	4.023	54.140	-96.871	1.00	0.00	H
ATOM	7954	2HG	GLU	G	154	4.476	53.186	-95.470	1.00	0.00	H

ATOM	7955	CD	GLU	G	154	2.724	52.476	-96.512	1.00	0.00	C
ATOM	7956	OE1	GLU	G	154	3.240	51.340	-96.580	1.00	0.00	O
ATOM	7957	OE2	GLU	G	154	1.542	52.699	-96.852	1.00	0.00	O
ATOM	7958	N	PHE	G	155	0.095	53.851	-94.314	1.00	0.00	N
ATOM	7959	H	PHE	G	155	0.130	54.842	-94.530	1.00	0.00	H
ATOM	7960	CA	PHE	G	155	-0.978	53.085	-94.957	1.00	0.00	C
ATOM	7961	HA	PHE	G	155	-0.524	52.206	-95.418	1.00	0.00	H
ATOM	7962	C	PHE	G	155	-1.678	53.891	-96.063	1.00	0.00	C
ATOM	7963	O	PHE	G	155	-1.973	55.076	-95.896	1.00	0.00	O
ATOM	7964	CB	PHE	G	155	-2.018	52.613	-93.931	1.00	0.00	C
ATOM	7965	1HB	PHE	G	155	-1.506	52.286	-93.027	1.00	0.00	H
ATOM	7966	2HB	PHE	G	155	-2.658	53.450	-93.652	1.00	0.00	H
ATOM	7967	CG	PHE	G	155	-2.861	51.458	-94.445	1.00	0.00	C
ATOM	7968	CD1	PHE	G	155	-2.351	50.151	-94.370	1.00	0.00	C
ATOM	7969	HD1	PHE	G	155	-1.375	49.997	-93.950	1.00	0.00	H
ATOM	7970	CD2	PHE	G	155	-4.120	51.670	-95.038	1.00	0.00	C
ATOM	7971	HD2	PHE	G	155	-4.516	52.673	-95.119	1.00	0.00	H
ATOM	7972	CE1	PHE	G	155	-3.086	49.059	-94.858	1.00	0.00	C
ATOM	7973	HE1	PHE	G	155	-2.671	48.060	-94.804	1.00	0.00	H
ATOM	7974	CE2	PHE	G	155	-4.866	50.577	-95.521	1.00	0.00	C
ATOM	7975	HE2	PHE	G	155	-5.838	50.736	-95.963	1.00	0.00	H
ATOM	7976	CZ	PHE	G	155	-4.350	49.272	-95.431	1.00	0.00	C
ATOM	7977	HZ	PHE	G	155	-4.922	48.437	-95.812	1.00	0.00	H
ATOM	7978	N	VAL	G	156	-2.000	53.224	-97.176	1.00	0.00	N
ATOM	7979	H	VAL	G	156	-1.662	52.276	-97.250	1.00	0.00	H
ATOM	7980	CA	VAL	G	156	-2.607	53.828	-98.376	1.00	0.00	C
ATOM	7981	HA	VAL	G	156	-1.895	54.551	-98.774	1.00	0.00	H
ATOM	7982	C	VAL	G	156	-3.898	54.604	-98.074	1.00	0.00	C
ATOM	7983	O	VAL	G	156	-3.937	55.806	-98.323	1.00	0.00	O
ATOM	7984	CB	VAL	G	156	-2.841	52.762	-99.469	1.00	0.00	C
ATOM	7985	HB	VAL	G	156	-3.566	52.031	-99.107	1.00	0.00	H
ATOM	7986	CG1	VAL	G	156	-3.379	53.382	-100.765	1.00	0.00	C
ATOM	7987	1HG1	VAL	G	156	-4.353	53.843	-100.593	1.00	0.00	H
ATOM	7988	2HG1	VAL	G	156	-3.504	52.610	-101.524	1.00	0.00	H
ATOM	7989	3HG1	VAL	G	156	-2.687	54.139	-101.136	1.00	0.00	H
ATOM	7990	CG2	VAL	G	156	-1.542	52.018	-99.818	1.00	0.00	C
ATOM	7991	1HG2	VAL	G	156	-0.778	52.729	-100.134	1.00	0.00	H
ATOM	7992	2HG2	VAL	G	156	-1.725	51.310	-100.627	1.00	0.00	H
ATOM	7993	3HG2	VAL	G	156	-1.171	51.460	-98.959	1.00	0.00	H
ATOM	7994	N	GLU	G	157	-4.924	53.961	-97.508	1.00	0.00	N
ATOM	7995	H	GLU	G	157	-4.817	52.986	-97.289	1.00	0.00	H
ATOM	7996	CA	GLU	G	157	-6.225	54.599	-97.220	1.00	0.00	C
ATOM	7997	HA	GLU	G	157	-6.527	55.150	-98.114	1.00	0.00	H
ATOM	7998	C	GLU	G	157	-6.174	55.635	-96.082	1.00	0.00	C
ATOM	7999	O	GLU	G	157	-5.400	55.499	-95.129	1.00	0.00	O
ATOM	8000	CB	GLU	G	157	-7.297	53.530	-96.922	1.00	0.00	C
ATOM	8001	1HB	GLU	G	157	-6.810	52.584	-96.694	1.00	0.00	H
ATOM	8002	2HB	GLU	G	157	-7.882	53.810	-96.044	1.00	0.00	H
ATOM	8003	CG	GLU	G	157	-8.253	53.316	-98.106	1.00	0.00	C
ATOM	8004	1HG	GLU	G	157	-7.668	53.174	-99.018	1.00	0.00	H
ATOM	8005	2HG	GLU	G	157	-8.806	52.391	-97.921	1.00	0.00	H
ATOM	8006	CD	GLU	G	157	-9.252	54.470	-98.294	1.00	0.00	C
ATOM	8007	OE1	GLU	G	157	-10.332	54.190	-98.852	1.00	0.00	O
ATOM	8008	OE2	GLU	G	157	-8.928	55.599	-97.854	1.00	0.00	O
ATOM	8009	N	ILE	G	158	-6.998	56.680	-96.197	1.00	0.00	N
ATOM	8010	H	ILE	G	158	-7.710	56.616	-96.933	1.00	0.00	H
ATOM	8011	CA	ILE	G	158	-6.909	57.939	-95.445	1.00	0.00	C
ATOM	8012	HA	ILE	G	158	-5.917	58.356	-95.586	1.00	0.00	H
ATOM	8013	C	ILE	G	158	-7.072	57.709	-93.938	1.00	0.00	C
ATOM	8014	O	ILE	G	158	-6.168	58.054	-93.169	1.00	0.00	O
ATOM	8015	CB	ILE	G	158	-7.906	58.982	-96.018	1.00	0.00	C
ATOM	8016	HB	ILE	G	158	-8.872	58.501	-96.186	1.00	0.00	H
ATOM	8017	CG1	ILE	G	158	-7.418	59.607	-97.351	1.00	0.00	C
ATOM	8018	1HG1	ILE	G	158	-8.137	60.369	-97.654	1.00	0.00	H
ATOM	8019	2HG1	ILE	G	158	-6.461	60.104	-97.186	1.00	0.00	H
ATOM	8020	CG2	ILE	G	158	-8.126	60.160	-95.047	1.00	0.00	C
ATOM	8021	1HG2	ILE	G	158	-8.625	59.826	-94.137	1.00	0.00	H
ATOM	8022	2HG2	ILE	G	158	-8.778	60.905	-95.507	1.00	0.00	H
ATOM	8023	3HG2	ILE	G	158	-7.177	60.630	-94.790	1.00	0.00	H
ATOM	8024	CD1	ILE	G	158	-7.264	58.652	-98.542	1.00	0.00	C
ATOM	8025	1HD1	ILE	G	158	-6.419	57.981	-98.392	1.00	0.00	H
ATOM	8026	2HD1	ILE	G	158	-7.081	59.233	-99.445	1.00	0.00	H
ATOM	8027	3HD1	ILE	G	158	-8.180	58.076	-98.677	1.00	0.00	H
ATOM	8028	N	ASP	G	159	-8.179	57.094	-93.512	1.00	0.00	N
ATOM	8029	H	ASP	G	159	-8.881	56.845	-94.196	1.00	0.00	H
ATOM	8030	CA	ASP	G	159	-8.515	56.977	-92.085	1.00	0.00	C
ATOM	8031	HA	ASP	G	159	-8.426	57.972	-91.654	1.00	0.00	H

ATOM	8032	C	ASP	G	159	-7.567	56.042	-91.307	1.00	0.00	C
ATOM	8033	O	ASP	G	159	-7.355	56.192	-90.103	1.00	0.00	O
ATOM	8034	CB	ASP	G	159	-9.978	56.540	-91.918	1.00	0.00	C
ATOM	8035	1HB	ASP	G	159	-10.612	57.148	-92.565	1.00	0.00	H
ATOM	8036	2HB	ASP	G	159	-10.082	55.495	-92.215	1.00	0.00	H
ATOM	8037	CG	ASP	G	159	-10.435	56.732	-90.467	1.00	0.00	C
ATOM	8038	OD1	ASP	G	159	-10.861	55.732	-89.847	1.00	0.00	O
ATOM	8039	OD2	ASP	G	159	-10.286	57.869	-89.965	1.00	0.00	O
ATOM	8040	N	ALA	G	160	-6.915	55.101	-91.994	1.00	0.00	N
ATOM	8041	H	ALA	G	160	-7.061	55.059	-92.993	1.00	0.00	H
ATOM	8042	CA	ALA	G	160	-5.962	54.186	-91.375	1.00	0.00	C
ATOM	8043	HA	ALA	G	160	-6.478	53.597	-90.616	1.00	0.00	H
ATOM	8044	C	ALA	G	160	-4.807	54.930	-90.685	1.00	0.00	C
ATOM	8045	O	ALA	G	160	-4.564	54.736	-89.490	1.00	0.00	O
ATOM	8046	CB	ALA	G	160	-5.441	53.251	-92.460	1.00	0.00	C
ATOM	8047	1HB	ALA	G	160	-4.696	52.586	-92.030	1.00	0.00	H
ATOM	8048	2HB	ALA	G	160	-4.971	53.836	-93.247	1.00	0.00	H
ATOM	8049	3HB	ALA	G	160	-6.262	52.670	-92.882	1.00	0.00	H
ATOM	8050	N	VAL	G	161	-4.132	55.833	-91.412	1.00	0.00	N
ATOM	8051	H	VAL	G	161	-4.405	55.976	-92.376	1.00	0.00	H
ATOM	8052	CA	VAL	G	161	-3.079	56.670	-90.818	1.00	0.00	C
ATOM	8053	HA	VAL	G	161	-2.470	56.005	-90.211	1.00	0.00	H
ATOM	8054	C	VAL	G	161	-3.652	57.719	-89.857	1.00	0.00	C
ATOM	8055	O	VAL	G	161	-2.990	58.042	-88.877	1.00	0.00	O
ATOM	8056	CB	VAL	G	161	-2.131	57.269	-91.877	1.00	0.00	C
ATOM	8057	HB	VAL	G	161	-1.942	56.504	-92.631	1.00	0.00	H
ATOM	8058	CG1	VAL	G	161	-2.689	58.505	-92.586	1.00	0.00	C
ATOM	8059	1HG1	VAL	G	161	-2.792	59.335	-91.886	1.00	0.00	H
ATOM	8060	2HG1	VAL	G	161	-3.661	58.273	-93.011	1.00	0.00	H
ATOM	8061	3HG1	VAL	G	161	-2.001	58.797	-93.378	1.00	0.00	H
ATOM	8062	CG2	VAL	G	161	-0.778	57.638	-91.256	1.00	0.00	C
ATOM	8063	1HG2	VAL	G	161	-0.904	58.418	-90.504	1.00	0.00	H
ATOM	8064	2HG2	VAL	G	161	-0.103	58.000	-92.031	1.00	0.00	H
ATOM	8065	3HG2	VAL	G	161	-0.332	56.758	-90.793	1.00	0.00	H
ATOM	8066	N	GLN	G	162	-4.888	58.195	-90.064	1.00	0.00	N
ATOM	8067	H	GLN	G	162	-5.398	57.885	-90.883	1.00	0.00	H
ATOM	8068	CA	GLN	G	162	-5.582	59.098	-89.131	1.00	0.00	C
ATOM	8069	HA	GLN	G	162	-4.966	59.987	-89.004	1.00	0.00	H
ATOM	8070	C	GLN	G	162	-5.772	58.481	-87.730	1.00	0.00	C
ATOM	8071	O	GLN	G	162	-5.659	59.184	-86.728	1.00	0.00	O
ATOM	8072	CB	GLN	G	162	-6.916	59.540	-89.755	1.00	0.00	C
ATOM	8073	1HB	GLN	G	162	-6.722	59.920	-90.760	1.00	0.00	H
ATOM	8074	2HB	GLN	G	162	-7.581	58.685	-89.824	1.00	0.00	H
ATOM	8075	CG	GLN	G	162	-7.635	60.629	-88.950	1.00	0.00	C
ATOM	8076	1HG	GLN	G	162	-8.065	60.191	-88.049	1.00	0.00	H
ATOM	8077	2HG	GLN	G	162	-6.916	61.395	-88.657	1.00	0.00	H
ATOM	8078	CD	GLN	G	162	-8.746	61.299	-89.754	1.00	0.00	C
ATOM	8079	OE1	GLN	G	162	-8.650	62.466	-90.094	1.00	0.00	O
ATOM	8080	NE2	GLN	G	162	-9.811	60.613	-90.103	1.00	0.00	N
ATOM	8081	1HE2	GLN	G	162	-10.518	61.102	-90.620	1.00	0.00	H
ATOM	8082	2HE2	GLN	G	162	-9.928	59.616	-89.885	1.00	0.00	H
ATOM	8083	N	ASN	G	163	-5.960	57.161	-87.644	1.00	0.00	N
ATOM	8084	H	ASN	G	163	-6.137	56.654	-88.504	1.00	0.00	H
ATOM	8085	CA	ASN	G	163	-5.925	56.419	-86.380	1.00	0.00	C
ATOM	8086	HA	ASN	G	163	-6.385	57.021	-85.592	1.00	0.00	H
ATOM	8087	C	ASN	G	163	-4.477	56.113	-85.933	1.00	0.00	C
ATOM	8088	O	ASN	G	163	-4.110	56.351	-84.779	1.00	0.00	O
ATOM	8089	CB	ASN	G	163	-6.752	55.131	-86.548	1.00	0.00	C
ATOM	8090	1HB	ASN	G	163	-6.456	54.607	-87.456	1.00	0.00	H
ATOM	8091	2HB	ASN	G	163	-6.563	54.472	-85.702	1.00	0.00	H
ATOM	8092	CG	ASN	G	163	-8.251	55.395	-86.583	1.00	0.00	C
ATOM	8093	OD1	ASN	G	163	-8.913	55.372	-85.558	1.00	0.00	O
ATOM	8094	ND2	ASN	G	163	-8.809	55.623	-87.747	1.00	0.00	N
ATOM	8095	1HD2	ASN	G	163	-9.805	55.798	-87.825	1.00	0.00	H
ATOM	8096	2HD2	ASN	G	163	-8.267	55.738	-88.593	1.00	0.00	H
ATOM	8097	N	ALA	G	164	-3.619	55.622	-86.837	1.00	0.00	N
ATOM	8098	H	ALA	G	164	-3.962	55.431	-87.774	1.00	0.00	H
ATOM	8099	CA	ALA	G	164	-2.239	55.235	-86.511	1.00	0.00	C
ATOM	8100	HA	ALA	G	164	-2.285	54.547	-85.665	1.00	0.00	H
ATOM	8101	C	ALA	G	164	-1.326	56.404	-86.076	1.00	0.00	C
ATOM	8102	O	ALA	G	164	-0.332	56.169	-85.388	1.00	0.00	O
ATOM	8103	CB	ALA	G	164	-1.633	54.469	-87.692	1.00	0.00	C
ATOM	8104	1HB	ALA	G	164	-0.678	54.037	-87.393	1.00	0.00	H
ATOM	8105	2HB	ALA	G	164	-1.463	55.145	-88.527	1.00	0.00	H
ATOM	8106	3HB	ALA	G	164	-2.302	53.664	-88.003	1.00	0.00	H
ATOM	8107	N	LEU	G	165	-1.650	57.657	-86.426	1.00	0.00	N
ATOM	8108	H	LEU	G	165	-2.413	57.781	-87.087	1.00	0.00	H

ATOM	8109	CA	LEU	G	165	-0.962	58.864	-85.940	1.00	0.00	C
ATOM	8110	HA	LEU	G	165	0.098	58.622	-85.864	1.00	0.00	H
ATOM	8111	C	LEU	G	165	-1.401	59.305	-84.529	1.00	0.00	C
ATOM	8112	O	LEU	G	165	-0.731	60.147	-83.929	1.00	0.00	O
ATOM	8113	CB	LEU	G	165	-1.068	59.997	-86.988	1.00	0.00	C
ATOM	8114	1HB	LEU	G	165	-0.306	60.744	-86.767	1.00	0.00	H
ATOM	8115	2HB	LEU	G	165	-0.809	59.559	-87.952	1.00	0.00	H
ATOM	8116	CG	LEU	G	165	-2.425	60.720	-87.145	1.00	0.00	C
ATOM	8117	HG	LEU	G	165	-3.232	60.001	-87.042	1.00	0.00	H
ATOM	8118	CD1	LEU	G	165	-2.632	61.866	-86.150	1.00	0.00	C
ATOM	8119	1HD1	LEU	G	165	-2.651	61.498	-85.129	1.00	0.00	H
ATOM	8120	2HD1	LEU	G	165	-3.593	62.345	-86.344	1.00	0.00	H
ATOM	8121	3HD1	LEU	G	165	-1.835	62.602	-86.247	1.00	0.00	H
ATOM	8122	CD2	LEU	G	165	-2.500	61.359	-88.536	1.00	0.00	C
ATOM	8123	1HD2	LEU	G	165	-1.697	62.083	-88.664	1.00	0.00	H
ATOM	8124	2HD2	LEU	G	165	-3.461	61.859	-88.660	1.00	0.00	H
ATOM	8125	3HD2	LEU	G	165	-2.415	60.590	-89.302	1.00	0.00	H
ATOM	8126	N	LEU	G	166	-2.485	58.725	-83.995	1.00	0.00	N
ATOM	8127	H	LEU	G	166	-2.949	58.018	-84.554	1.00	0.00	H
ATOM	8128	CA	LEU	G	166	-3.252	59.255	-82.858	1.00	0.00	C
ATOM	8129	HA	LEU	G	166	-2.757	60.150	-82.483	1.00	0.00	H
ATOM	8130	C	LEU	G	166	-3.381	58.277	-81.671	1.00	0.00	C
ATOM	8131	O	LEU	G	166	-3.663	58.702	-80.553	1.00	0.00	O
ATOM	8132	CB	LEU	G	166	-4.634	59.647	-83.427	1.00	0.00	C
ATOM	8133	1HB	LEU	G	166	-4.484	60.304	-84.284	1.00	0.00	H
ATOM	8134	2HB	LEU	G	166	-5.121	58.744	-83.798	1.00	0.00	H
ATOM	8135	CG	LEU	G	166	-5.608	60.347	-82.462	1.00	0.00	C
ATOM	8136	HG	LEU	G	166	-5.854	59.679	-81.638	1.00	0.00	H
ATOM	8137	CD1	LEU	G	166	-5.037	61.651	-81.900	1.00	0.00	C
ATOM	8138	1HD1	LEU	G	166	-4.180	61.434	-81.265	1.00	0.00	H
ATOM	8139	2HD1	LEU	G	166	-5.793	62.150	-81.295	1.00	0.00	H
ATOM	8140	3HD1	LEU	G	166	-4.735	62.308	-82.716	1.00	0.00	H
ATOM	8141	CD2	LEU	G	166	-6.902	60.674	-83.208	1.00	0.00	C
ATOM	8142	1HD2	LEU	G	166	-7.618	61.137	-82.530	1.00	0.00	H
ATOM	8143	2HD2	LEU	G	166	-7.339	59.758	-83.606	1.00	0.00	H
ATOM	8144	3HD2	LEU	G	166	-6.699	61.352	-84.038	1.00	0.00	H
ATOM	8145	N	LEU	G	167	-3.146	56.979	-81.889	1.00	0.00	N
ATOM	8146	H	LEU	G	167	-2.975	56.713	-82.850	1.00	0.00	H
ATOM	8147	CA	LEU	G	167	-3.427	55.895	-80.932	1.00	0.00	C
ATOM	8148	HA	LEU	G	167	-3.773	56.322	-79.990	1.00	0.00	H
ATOM	8149	C	LEU	G	167	-2.156	55.084	-80.595	1.00	0.00	C
ATOM	8150	O	LEU	G	167	-2.172	53.855	-80.566	1.00	0.00	O
ATOM	8151	CB	LEU	G	167	-4.557	55.016	-81.514	1.00	0.00	C
ATOM	8152	1HB	LEU	G	167	-4.190	54.564	-82.437	1.00	0.00	H
ATOM	8153	2HB	LEU	G	167	-4.768	54.210	-80.809	1.00	0.00	H
ATOM	8154	CG	LEU	G	167	-5.884	55.736	-81.831	1.00	0.00	C
ATOM	8155	HG	LEU	G	167	-5.713	56.525	-82.562	1.00	0.00	H
ATOM	8156	CD1	LEU	G	167	-6.868	54.733	-82.430	1.00	0.00	C
ATOM	8157	1HD1	LEU	G	167	-7.778	55.248	-82.742	1.00	0.00	H
ATOM	8158	2HD1	LEU	G	167	-7.117	53.960	-81.704	1.00	0.00	H
ATOM	8159	3HD1	LEU	G	167	-6.427	54.264	-83.309	1.00	0.00	H
ATOM	8160	CD2	LEU	G	167	-6.530	56.352	-80.587	1.00	0.00	C
ATOM	8161	1HD2	LEU	G	167	-7.489	56.792	-80.860	1.00	0.00	H
ATOM	8162	2HD2	LEU	G	167	-5.895	57.143	-80.192	1.00	0.00	H
ATOM	8163	3HD2	LEU	G	167	-6.684	55.588	-79.826	1.00	0.00	H
ATOM	8164	N	ASN	G	168	-1.020	55.773	-80.442	1.00	0.00	N
ATOM	8165	H	ASN	G	168	-1.102	56.782	-80.469	1.00	0.00	H
ATOM	8166	CA	ASN	G	168	0.293	55.224	-80.803	1.00	0.00	C
ATOM	8167	HA	ASN	G	168	0.241	54.134	-80.826	1.00	0.00	H
ATOM	8168	C	ASN	G	168	1.476	55.579	-79.873	1.00	0.00	C
ATOM	8169	O	ASN	G	168	2.311	54.725	-79.587	1.00	0.00	O
ATOM	8170	CB	ASN	G	168	0.576	55.728	-82.237	1.00	0.00	C
ATOM	8171	1HB	ASN	G	168	1.535	55.334	-82.567	1.00	0.00	H
ATOM	8172	2HB	ASN	G	168	-0.186	55.334	-82.908	1.00	0.00	H
ATOM	8173	CG	ASN	G	168	0.606	57.249	-82.394	1.00	0.00	C
ATOM	8174	OD1	ASN	G	168	0.207	58.023	-81.537	1.00	0.00	O
ATOM	8175	ND2	ASN	G	168	1.072	57.740	-83.509	1.00	0.00	N
ATOM	8176	1HD2	ASN	G	168	0.949	58.736	-83.613	1.00	0.00	H
ATOM	8177	2HD2	ASN	G	168	1.123	57.120	-84.308	1.00	0.00	H
ATOM	8178	N	GLU	G	169	1.611	56.832	-79.439	1.00	0.00	N
ATOM	8179	H	GLU	G	169	0.894	57.491	-79.720	1.00	0.00	H
ATOM	8180	CA	GLU	G	169	2.932	57.404	-79.141	1.00	0.00	C
ATOM	8181	HA	GLU	G	169	3.668	56.813	-79.689	1.00	0.00	H
ATOM	8182	C	GLU	G	169	3.392	57.306	-77.675	1.00	0.00	C
ATOM	8183	O	GLU	G	169	3.891	58.281	-77.116	1.00	0.00	O
ATOM	8184	CB	GLU	G	169	3.041	58.823	-79.724	1.00	0.00	C
ATOM	8185	1HB	GLU	G	169	4.091	59.094	-79.662	1.00	0.00	H

ATOM	8186	2HB	GLU	G	169	2.788	58.786	-80.781	1.00	0.00	H
ATOM	8187	CG	GLU	G	169	2.174	59.915	-79.064	1.00	0.00	C
ATOM	8188	1HG	GLU	G	169	1.299	60.101	-79.690	1.00	0.00	H
ATOM	8189	2HG	GLU	G	169	1.809	59.564	-78.097	1.00	0.00	H
ATOM	8190	CD	GLU	G	169	2.951	61.228	-78.862	1.00	0.00	C
ATOM	8191	OE1	GLU	G	169	3.845	61.534	-79.686	1.00	0.00	O
ATOM	8192	OE2	GLU	G	169	2.700	61.909	-77.834	1.00	0.00	O
ATOM	8193	N	THR	G	170	3.244	56.141	-77.039	1.00	0.00	N
ATOM	8194	H	THR	G	170	2.794	55.388	-77.543	1.00	0.00	H
ATOM	8195	CA	THR	G	170	3.627	55.967	-75.619	1.00	0.00	C
ATOM	8196	HA	THR	G	170	4.326	56.758	-75.351	1.00	0.00	H
ATOM	8197	C	THR	G	170	4.377	54.660	-75.316	1.00	0.00	C
ATOM	8198	O	THR	G	170	5.137	54.633	-74.348	1.00	0.00	O
ATOM	8199	CB	THR	G	170	2.401	56.133	-74.691	1.00	0.00	C
ATOM	8200	HB	THR	G	170	1.768	55.251	-74.795	1.00	0.00	H
ATOM	8201	OG1	THR	G	170	1.627	57.264	-75.030	1.00	0.00	O
ATOM	8202	HG1	THR	G	170	2.031	58.059	-74.633	1.00	0.00	H
ATOM	8203	CG2	THR	G	170	2.753	56.315	-73.214	1.00	0.00	C
ATOM	8204	1HG2	THR	G	170	3.192	55.401	-72.818	1.00	0.00	H
ATOM	8205	2HG2	THR	G	170	1.849	56.538	-72.647	1.00	0.00	H
ATOM	8206	3HG2	THR	G	170	3.458	57.138	-73.096	1.00	0.00	H
ATOM	8207	N	GLU	G	171	4.252	53.595	-76.124	1.00	0.00	N
ATOM	8208	H	GLU	G	171	3.670	53.648	-76.947	1.00	0.00	H
ATOM	8209	CA	GLU	G	171	4.929	52.309	-75.855	1.00	0.00	C
ATOM	8210	HA	GLU	G	171	5.859	52.520	-75.333	1.00	0.00	H
ATOM	8211	C	GLU	G	171	5.287	51.531	-77.136	1.00	0.00	C
ATOM	8212	O	GLU	G	171	4.426	51.242	-77.970	1.00	0.00	O
ATOM	8213	CB	GLU	G	171	4.054	51.459	-74.910	1.00	0.00	C
ATOM	8214	1HB	GLU	G	171	3.636	52.123	-74.151	1.00	0.00	H
ATOM	8215	2HB	GLU	G	171	3.216	51.024	-75.456	1.00	0.00	H
ATOM	8216	CG	GLU	G	171	4.822	50.361	-74.152	1.00	0.00	C
ATOM	8217	1HG	GLU	G	171	5.784	50.758	-73.816	1.00	0.00	H
ATOM	8218	2HG	GLU	G	171	4.253	50.112	-73.253	1.00	0.00	H
ATOM	8219	CD	GLU	G	171	5.030	49.075	-74.961	1.00	0.00	C
ATOM	8220	OE1	GLU	G	171	4.066	48.288	-75.072	1.00	0.00	O
ATOM	8221	OE2	GLU	G	171	6.172	48.843	-75.418	1.00	0.00	O
ATOM	8222	N	LEU	G	172	6.566	51.169	-77.264	1.00	0.00	N
ATOM	8223	H	LEU	G	172	7.211	51.440	-76.527	1.00	0.00	H
ATOM	8224	CA	LEU	G	172	7.103	50.273	-78.291	1.00	0.00	C
ATOM	8225	HA	LEU	G	172	6.314	49.607	-78.630	1.00	0.00	H
ATOM	8226	C	LEU	G	172	8.252	49.449	-77.684	1.00	0.00	C
ATOM	8227	O	LEU	G	172	9.096	50.009	-76.978	1.00	0.00	O
ATOM	8228	CB	LEU	G	172	7.621	51.128	-79.468	1.00	0.00	C
ATOM	8229	1HB	LEU	G	172	7.103	52.087	-79.456	1.00	0.00	H
ATOM	8230	2HB	LEU	G	172	8.675	51.338	-79.291	1.00	0.00	H
ATOM	8231	CG	LEU	G	172	7.484	50.556	-80.892	1.00	0.00	C
ATOM	8232	HG	LEU	G	172	8.167	51.100	-81.542	1.00	0.00	H
ATOM	8233	CD1	LEU	G	172	7.842	49.078	-81.008	1.00	0.00	C
ATOM	8234	1HD1	LEU	G	172	7.121	48.465	-80.475	1.00	0.00	H
ATOM	8235	2HD1	LEU	G	172	8.841	48.912	-80.611	1.00	0.00	H
ATOM	8236	3HD1	LEU	G	172	7.846	48.776	-82.052	1.00	0.00	H
ATOM	8237	CD2	LEU	G	172	6.072	50.797	-81.418	1.00	0.00	C
ATOM	8238	1HD2	LEU	G	172	5.957	50.358	-82.409	1.00	0.00	H
ATOM	8239	2HD2	LEU	G	172	5.885	51.868	-81.492	1.00	0.00	H
ATOM	8240	3HD2	LEU	G	172	5.348	50.368	-80.729	1.00	0.00	H
ATOM	8241	N	HIS	G	173	8.348	48.148	-77.986	1.00	0.00	N
ATOM	8242	H	HIS	G	173	7.611	47.727	-78.540	1.00	0.00	H
ATOM	8243	CA	HIS	G	173	9.467	47.284	-77.560	1.00	0.00	C
ATOM	8244	HA	HIS	G	173	9.222	46.267	-77.872	1.00	0.00	H
ATOM	8245	C	HIS	G	173	9.651	47.235	-76.016	1.00	0.00	C
ATOM	8246	O	HIS	G	173	10.708	46.859	-75.503	1.00	0.00	O
ATOM	8247	CB	HIS	G	173	10.721	47.715	-78.365	1.00	0.00	C
ATOM	8248	1HB	HIS	G	173	10.457	47.711	-79.421	1.00	0.00	H
ATOM	8249	2HB	HIS	G	173	10.990	48.738	-78.099	1.00	0.00	H
ATOM	8250	CG	HIS	G	173	11.959	46.863	-78.228	1.00	0.00	C
ATOM	8251	ND1	HIS	G	173	12.091	45.552	-78.608	1.00	0.00	N
ATOM	8252	HD1	HIS	G	173	11.390	45.029	-79.151	1.00	0.00	H
ATOM	8253	CD2	HIS	G	173	13.200	47.287	-77.845	1.00	0.00	C
ATOM	8254	HD2	HIS	G	173	13.455	48.294	-77.549	1.00	0.00	H
ATOM	8255	CE1	HIS	G	173	13.369	45.187	-78.441	1.00	0.00	C
ATOM	8256	HE1	HIS	G	173	13.782	44.238	-78.760	1.00	0.00	H
ATOM	8257	NE2	HIS	G	173	14.077	46.191	-77.893	1.00	0.00	N
ATOM	8258	N	GLY	G	174	8.645	47.635	-75.228	1.00	0.00	N
ATOM	8259	H	GLY	G	174	7.778	47.958	-75.665	1.00	0.00	H
ATOM	8260	CA	GLY	G	174	8.707	47.766	-73.770	1.00	0.00	C
ATOM	8261	1HA	GLY	G	174	7.686	47.721	-73.390	1.00	0.00	H
ATOM	8262	2HA	GLY	G	174	9.270	46.934	-73.349	1.00	0.00	H

ATOM	8263	C	GLY	G	174	9.326	49.080	-73.273	1.00	0.00	C
ATOM	8264	O	GLY	G	174	9.799	49.128	-72.134	1.00	0.00	O
ATOM	8265	N	ARG	G	175	9.390	50.125	-74.110	1.00	0.00	N
ATOM	8266	H	ARG	G	175	8.969	50.011	-75.032	1.00	0.00	H
ATOM	8267	CA	ARG	G	175	10.014	51.433	-73.825	1.00	0.00	C
ATOM	8268	HA	ARG	G	175	10.101	51.564	-72.747	1.00	0.00	H
ATOM	8269	C	ARG	G	175	9.152	52.592	-74.356	1.00	0.00	C
ATOM	8270	O	ARG	G	175	8.278	52.398	-75.195	1.00	0.00	O
ATOM	8271	CB	ARG	G	175	11.418	51.506	-74.466	1.00	0.00	C
ATOM	8272	1HB	ARG	G	175	11.345	51.266	-75.529	1.00	0.00	H
ATOM	8273	2HB	ARG	G	175	11.760	52.541	-74.405	1.00	0.00	H
ATOM	8274	CG	ARG	G	175	12.523	50.649	-73.820	1.00	0.00	C
ATOM	8275	1HG	ARG	G	175	13.474	51.072	-74.146	1.00	0.00	H
ATOM	8276	2HG	ARG	G	175	12.479	50.743	-72.734	1.00	0.00	H
ATOM	8277	CD	ARG	G	175	12.503	49.161	-74.206	1.00	0.00	C
ATOM	8278	1HD	ARG	G	175	11.948	48.595	-73.458	1.00	0.00	H
ATOM	8279	2HD	ARG	G	175	11.999	49.059	-75.170	1.00	0.00	H
ATOM	8280	NE	ARG	G	175	13.869	48.619	-74.332	1.00	0.00	N
ATOM	8281	HE	ARG	G	175	14.634	49.296	-74.313	1.00	0.00	H
ATOM	8282	CZ	ARG	G	175	14.203	47.461	-74.865	1.00	0.00	C
ATOM	8283	NH1	ARG	G	175	13.364	46.482	-75.014	1.00	0.00	N
ATOM	8284	1HH1	ARG	G	175	12.379	46.692	-74.883	1.00	0.00	H
ATOM	8285	2HH1	ARG	G	175	13.575	45.839	-75.760	1.00	0.00	H
ATOM	8286	NH2	ARG	G	175	15.392	47.282	-75.353	1.00	0.00	N
ATOM	8287	1HH2	ARG	G	175	15.974	48.118	-75.468	1.00	0.00	H
ATOM	8288	2HH2	ARG	G	175	15.475	46.595	-76.082	1.00	0.00	H
ATOM	8289	N	GLN	G	176	9.416	53.809	-73.873	1.00	0.00	N
ATOM	8290	H	GLN	G	176	10.168	53.905	-73.215	1.00	0.00	H
ATOM	8291	CA	GLN	G	176	8.837	55.037	-74.435	1.00	0.00	C
ATOM	8292	HA	GLN	G	176	7.759	54.893	-74.536	1.00	0.00	H
ATOM	8293	C	GLN	G	176	9.407	55.352	-75.830	1.00	0.00	C
ATOM	8294	O	GLN	G	176	10.577	55.070	-76.091	1.00	0.00	O
ATOM	8295	CB	GLN	G	176	9.072	56.231	-73.481	1.00	0.00	C
ATOM	8296	1HB	GLN	G	176	8.491	57.079	-73.848	1.00	0.00	H
ATOM	8297	2HB	GLN	G	176	8.691	55.973	-72.492	1.00	0.00	H
ATOM	8298	CG	GLN	G	176	10.545	56.675	-73.353	1.00	0.00	C
ATOM	8299	1HG	GLN	G	176	11.138	55.859	-72.940	1.00	0.00	H
ATOM	8300	2HG	GLN	G	176	10.947	56.921	-74.335	1.00	0.00	H
ATOM	8301	CD	GLN	G	176	10.713	57.898	-72.457	1.00	0.00	C
ATOM	8302	OE1	GLN	G	176	10.775	57.792	-71.242	1.00	0.00	O
ATOM	8303	NE2	GLN	G	176	10.824	59.081	-73.027	1.00	0.00	N
ATOM	8304	1HE2	GLN	G	176	10.935	59.902	-72.434	1.00	0.00	H
ATOM	8305	2HE2	GLN	G	176	10.828	59.183	-74.025	1.00	0.00	H
ATOM	8306	N	LEU	G	177	8.615	56.033	-76.662	1.00	0.00	N
ATOM	8307	H	LEU	G	177	7.655	56.190	-76.380	1.00	0.00	H
ATOM	8308	CA	LEU	G	177	9.034	56.774	-77.861	1.00	0.00	C
ATOM	8309	HA	LEU	G	177	9.911	57.372	-77.610	1.00	0.00	H
ATOM	8310	C	LEU	G	177	7.935	57.769	-78.281	1.00	0.00	C
ATOM	8311	O	LEU	G	177	6.879	57.792	-77.647	1.00	0.00	O
ATOM	8312	CB	LEU	G	177	9.449	55.811	-78.989	1.00	0.00	C
ATOM	8313	1HB	LEU	G	177	9.706	56.405	-79.865	1.00	0.00	H
ATOM	8314	2HB	LEU	G	177	10.367	55.315	-78.673	1.00	0.00	H
ATOM	8315	CG	LEU	G	177	8.463	54.712	-79.421	1.00	0.00	C
ATOM	8316	HG	LEU	G	177	8.225	54.072	-78.571	1.00	0.00	H
ATOM	8317	CD1	LEU	G	177	7.153	55.247	-80.006	1.00	0.00	C
ATOM	8318	1HD1	LEU	G	177	7.356	56.013	-80.751	1.00	0.00	H
ATOM	8319	2HD1	LEU	G	177	6.538	55.664	-79.210	1.00	0.00	H
ATOM	8320	3HD1	LEU	G	177	6.587	54.435	-80.462	1.00	0.00	H
ATOM	8321	CD2	LEU	G	177	9.187	53.870	-80.473	1.00	0.00	C
ATOM	8322	1HD2	LEU	G	177	9.738	54.504	-81.159	1.00	0.00	H
ATOM	8323	2HD2	LEU	G	177	8.478	53.279	-81.045	1.00	0.00	H
ATOM	8324	3HD2	LEU	G	177	9.896	53.210	-79.975	1.00	0.00	H
ATOM	8325	N	LYS	G	178	8.161	58.591	-79.317	1.00	0.00	N
ATOM	8326	H	LYS	G	178	9.052	58.516	-79.803	1.00	0.00	H
ATOM	8327	CA	LYS	G	178	7.204	59.621	-79.784	1.00	0.00	C
ATOM	8328	HA	LYS	G	178	6.213	59.345	-79.436	1.00	0.00	H
ATOM	8329	C	LYS	G	178	7.078	59.657	-81.315	1.00	0.00	C
ATOM	8330	O	LYS	G	178	7.997	59.216	-82.009	1.00	0.00	O
ATOM	8331	CB	LYS	G	178	7.589	60.990	-79.172	1.00	0.00	C
ATOM	8332	1HB	LYS	G	178	8.642	61.184	-79.380	1.00	0.00	H
ATOM	8333	2HB	LYS	G	178	7.005	61.778	-79.653	1.00	0.00	H
ATOM	8334	CG	LYS	G	178	7.357	61.077	-77.643	1.00	0.00	C
ATOM	8335	1HG	LYS	G	178	7.811	60.225	-77.141	1.00	0.00	H
ATOM	8336	2HG	LYS	G	178	7.842	61.970	-77.257	1.00	0.00	H
ATOM	8337	CD	LYS	G	178	5.857	61.137	-77.323	1.00	0.00	C
ATOM	8338	1HD	LYS	G	178	5.465	62.095	-77.670	1.00	0.00	H
ATOM	8339	2HD	LYS	G	178	5.360	60.348	-77.879	1.00	0.00	H

ATOM	8340	CE	LYS	G	178	5.468	60.942	-75.855	1.00	0.00	C
ATOM	8341	1HE	LYS	G	178	6.019	60.087	-75.456	1.00	0.00	H
ATOM	8342	2HE	LYS	G	178	5.726	61.839	-75.291	1.00	0.00	H
ATOM	8343	NZ	LYS	G	178	4.013	60.663	-75.782	1.00	0.00	N
ATOM	8344	1HZ	LYS	G	178	3.825	59.781	-76.251	1.00	0.00	H
ATOM	8345	2HZ	LYS	G	178	3.467	61.341	-76.316	1.00	0.00	H
ATOM	8346	3HZ	LYS	G	178	3.625	60.525	-74.848	1.00	0.00	H
ATOM	8347	N	VAL	G	179	5.927	60.106	-81.845	1.00	0.00	N
ATOM	8348	H	VAL	G	179	5.238	60.520	-81.219	1.00	0.00	H
ATOM	8349	CA	VAL	G	179	5.500	59.799	-83.237	1.00	0.00	C
ATOM	8350	HA	VAL	G	179	6.386	59.577	-83.827	1.00	0.00	H
ATOM	8351	C	VAL	G	179	4.761	60.965	-83.918	1.00	0.00	C
ATOM	8352	O	VAL	G	179	3.782	61.477	-83.379	1.00	0.00	O
ATOM	8353	CB	VAL	G	179	4.584	58.549	-83.270	1.00	0.00	C
ATOM	8354	HB	VAL	G	179	3.631	58.803	-82.813	1.00	0.00	H
ATOM	8355	CG1	VAL	G	179	4.303	58.080	-84.703	1.00	0.00	C
ATOM	8356	1HG1	VAL	G	179	5.235	57.872	-85.225	1.00	0.00	H
ATOM	8357	2HG1	VAL	G	179	3.746	58.841	-85.248	1.00	0.00	H
ATOM	8358	3HG1	VAL	G	179	3.703	57.171	-84.680	1.00	0.00	H
ATOM	8359	CG2	VAL	G	179	5.163	57.343	-82.513	1.00	0.00	C
ATOM	8360	1HG2	VAL	G	179	5.244	57.563	-81.451	1.00	0.00	H
ATOM	8361	2HG2	VAL	G	179	6.147	57.100	-82.908	1.00	0.00	H
ATOM	8362	3HG2	VAL	G	179	4.504	56.481	-82.624	1.00	0.00	H
ATOM	8363	N	SER	G	180	5.176	61.333	-85.136	1.00	0.00	N
ATOM	8364	H	SER	G	180	5.913	60.776	-85.563	1.00	0.00	H
ATOM	8365	CA	SER	G	180	4.701	62.506	-85.905	1.00	0.00	C
ATOM	8366	HA	SER	G	180	3.763	62.874	-85.489	1.00	0.00	H
ATOM	8367	C	SER	G	180	4.478	62.171	-87.392	1.00	0.00	C
ATOM	8368	O	SER	G	180	4.964	61.153	-87.861	1.00	0.00	O
ATOM	8369	CB	SER	G	180	5.754	63.618	-85.816	1.00	0.00	C
ATOM	8370	1HB	SER	G	180	6.720	63.209	-86.110	1.00	0.00	H
ATOM	8371	2HB	SER	G	180	5.493	64.428	-86.498	1.00	0.00	H
ATOM	8372	OG	SER	G	180	5.852	64.141	-84.505	1.00	0.00	O
ATOM	8373	HG	SER	G	180	6.652	64.669	-84.457	1.00	0.00	H
ATOM	8374	N	ALA	G	181	3.774	63.005	-88.167	1.00	0.00	N
ATOM	8375	H	ALA	G	181	3.390	63.841	-87.759	1.00	0.00	H
ATOM	8376	CA	ALA	G	181	3.570	62.794	-89.616	1.00	0.00	C
ATOM	8377	HA	ALA	G	181	3.199	61.783	-89.776	1.00	0.00	H
ATOM	8378	C	ALA	G	181	4.859	62.946	-90.463	1.00	0.00	C
ATOM	8379	O	ALA	G	181	5.769	63.677	-90.061	1.00	0.00	O
ATOM	8380	CB	ALA	G	181	2.484	63.768	-90.089	1.00	0.00	C
ATOM	8381	1HB	ALA	G	181	1.571	63.616	-89.513	1.00	0.00	H
ATOM	8382	2HB	ALA	G	181	2.266	63.588	-91.143	1.00	0.00	H
ATOM	8383	3HB	ALA	G	181	2.826	64.797	-89.968	1.00	0.00	H
ATOM	8384	N	LYS	G	182	4.914	62.315	-91.651	1.00	0.00	N
ATOM	8385	H	LYS	G	182	4.114	61.754	-91.940	1.00	0.00	H
ATOM	8386	CA	LYS	G	182	6.027	62.404	-92.626	1.00	0.00	C
ATOM	8387	HA	LYS	G	182	6.622	63.287	-92.399	1.00	0.00	H
ATOM	8388	C	LYS	G	182	5.525	62.616	-94.057	1.00	0.00	C
ATOM	8389	O	LYS	G	182	4.477	62.062	-94.447	1.00	0.00	O
ATOM	8390	OXT	LYS	G	182	6.267	63.234	-94.850	1.00	0.00	O
ATOM	8391	CB	LYS	G	182	6.936	61.154	-92.514	1.00	0.00	C
ATOM	8392	1HB	LYS	G	182	7.215	61.023	-91.471	1.00	0.00	H
ATOM	8393	2HB	LYS	G	182	6.373	60.273	-92.823	1.00	0.00	H
ATOM	8394	CG	LYS	G	182	8.223	61.264	-93.362	1.00	0.00	C
ATOM	8395	1HG	LYS	G	182	7.954	61.316	-94.417	1.00	0.00	H
ATOM	8396	2HG	LYS	G	182	8.737	62.187	-93.091	1.00	0.00	H
ATOM	8397	CD	LYS	G	182	9.203	60.088	-93.187	1.00	0.00	C
ATOM	8398	1HD	LYS	G	182	9.479	60.003	-92.137	1.00	0.00	H
ATOM	8399	2HD	LYS	G	182	8.717	59.162	-93.502	1.00	0.00	H
ATOM	8400	CE	LYS	G	182	10.471	60.325	-94.028	1.00	0.00	C
ATOM	8401	1HE	LYS	G	182	10.191	60.365	-95.085	1.00	0.00	H
ATOM	8402	2HE	LYS	G	182	10.891	61.298	-93.754	1.00	0.00	H
ATOM	8403	NZ	LYS	G	182	11.498	59.272	-93.822	1.00	0.00	N
ATOM	8404	1HZ	LYS	G	182	11.140	58.364	-94.111	1.00	0.00	H
ATOM	8405	2HZ	LYS	G	182	11.748	59.198	-92.839	1.00	0.00	H
ATOM	8406	3HZ	LYS	G	182	12.338	59.463	-94.370	1.00	0.00	H
TER	8407		LYS	G	182						
ATOM	8408	N	ASP	H	106	0.350	43.627	-110.769	1.00	0.00	N
ATOM	8409	1H	ASP	H	106	0.748	44.182	-111.512	1.00	0.00	H
ATOM	8410	2H	ASP	H	106	0.898	42.784	-110.660	1.00	0.00	H
ATOM	8411	3H	ASP	H	106	0.461	44.168	-109.911	1.00	0.00	H
ATOM	8412	CA	ASP	H	106	-1.071	43.325	-111.013	1.00	0.00	C
ATOM	8413	HA	ASP	H	106	-1.581	44.264	-111.229	1.00	0.00	H
ATOM	8414	C	ASP	H	106	-1.752	42.743	-109.766	1.00	0.00	C
ATOM	8415	O	ASP	H	106	-2.814	43.217	-109.386	1.00	0.00	O
ATOM	8416	CB	ASP	H	106	-1.222	42.393	-112.233	1.00	0.00	C

ATOM	8417	1HB	ASP	H	106	-2.269	42.386-112.541	1.00	0.00	H
ATOM	8418	2HB	ASP	H	106	-0.622	42.772-113.062	1.00	0.00	C
ATOM	8419	CG	ASP	H	106	-0.784	40.971-111.880	1.00	0.00	H
ATOM	8420	OD1	ASP	H	106	0.387	40.833-111.450	1.00	0.00	O
ATOM	8421	OD2	ASP	H	106	-1.663	40.106-111.676	1.00	0.00	O
ATOM	8422	N	SER	H	107	-1.185	41.670-109.198	1.00	0.00	N
ATOM	8423	H	SER	H	107	-0.288	41.405-109.583	1.00	0.00	H
ATOM	8424	CA	SER	H	107	-1.769	40.701-108.254	1.00	0.00	C
ATOM	8425	HA	SER	H	107	-1.794	41.165-107.267	1.00	0.00	H
ATOM	8426	C	SER	H	107	-0.914	39.426-108.165	1.00	0.00	C
ATOM	8427	O	SER	H	107	-0.900	38.769-107.122	1.00	0.00	O
ATOM	8428	CB	SER	H	107	-3.206	40.279-108.628	1.00	0.00	C
ATOM	8429	1HB	SER	H	107	-3.652	39.797-107.756	1.00	0.00	H
ATOM	8430	2HB	SER	H	107	-3.825	41.140-108.870	1.00	0.00	H
ATOM	8431	OG	SER	H	107	-3.237	39.347-109.700	1.00	0.00	O
ATOM	8432	HG	SER	H	107	-2.772	39.740-110.482	1.00	0.00	H
ATOM	8433	N	ARG	H	108	-0.218	39.039-109.254	1.00	0.00	N
ATOM	8434	H	ARG	H	108	-0.356	39.555-110.125	1.00	0.00	H
ATOM	8435	CA	ARG	H	108	0.777	37.949-109.266	1.00	0.00	C
ATOM	8436	HA	ARG	H	108	0.448	37.136-108.629	1.00	0.00	H
ATOM	8437	C	ARG	H	108	2.120	38.371-108.680	1.00	0.00	C
ATOM	8438	O	ARG	H	108	2.967	37.520-108.424	1.00	0.00	O
ATOM	8439	CB	ARG	H	108	1.053	37.402-110.691	1.00	0.00	C
ATOM	8440	1HB	ARG	H	108	1.807	38.036-111.161	1.00	0.00	H
ATOM	8441	2HB	ARG	H	108	1.520	36.427-110.555	1.00	0.00	H
ATOM	8442	CG	ARG	H	108	-0.060	37.216-111.745	1.00	0.00	C
ATOM	8443	1HG	ARG	H	108	-0.166	38.147-112.298	1.00	0.00	H
ATOM	8444	2HG	ARG	H	108	0.300	36.477-112.463	1.00	0.00	H
ATOM	8445	CD	ARG	H	108	-1.456	36.780-111.281	1.00	0.00	C
ATOM	8446	1HD	ARG	H	108	-1.956	37.646-110.860	1.00	0.00	H
ATOM	8447	2HD	ARG	H	108	-2.031	36.465-112.153	1.00	0.00	H
ATOM	8448	NE	ARG	H	108	-1.400	35.681-110.306	1.00	0.00	N
ATOM	8449	HE	ARG	H	108	-1.003	34.803-110.616	1.00	0.00	H
ATOM	8450	CZ	ARG	H	108	-1.625	35.778-109.016	1.00	0.00	C
ATOM	8451	NH1	ARG	H	108	-2.379	36.707-108.501	1.00	0.00	N
ATOM	8452	1HH1	ARG	H	108	-2.773	37.398-109.131	1.00	0.00	H
ATOM	8453	2HH1	ARG	H	108	-2.234	36.972-107.543	1.00	0.00	H
ATOM	8454	NH2	ARG	H	108	-1.017	34.970-108.204	1.00	0.00	N
ATOM	8455	1HH2	ARG	H	108	-0.255	34.390-108.554	1.00	0.00	H
ATOM	8456	2HH2	ARG	H	108	-1.117	35.062-107.215	1.00	0.00	H
ATOM	8457	N	SER	H	109	2.328	39.673-108.518	1.00	0.00	N
ATOM	8458	H	SER	H	109	1.546	40.295-108.638	1.00	0.00	H
ATOM	8459	CA	SER	H	109	3.641	40.305-108.547	1.00	0.00	C
ATOM	8460	HA	SER	H	109	4.402	39.533-108.476	1.00	0.00	H
ATOM	8461	C	SER	H	109	3.864	41.250-107.365	1.00	0.00	C
ATOM	8462	O	SER	H	109	2.928	41.800-106.786	1.00	0.00	O
ATOM	8463	CB	SER	H	109	3.832	41.013-109.900	1.00	0.00	C
ATOM	8464	1HB	SER	H	109	4.675	41.701-109.829	1.00	0.00	H
ATOM	8465	2HB	SER	H	109	4.069	40.263-110.655	1.00	0.00	H
ATOM	8466	OG	SER	H	109	2.679	41.726-110.330	1.00	0.00	O
ATOM	8467	HG	SER	H	109	2.075	41.125-110.813	1.00	0.00	H
ATOM	8468	N	ILE	H	110	5.133	41.391-106.985	1.00	0.00	N
ATOM	8469	H	ILE	H	110	5.847	40.910-107.524	1.00	0.00	H
ATOM	8470	CA	ILE	H	110	5.593	42.154-105.819	1.00	0.00	C
ATOM	8471	HA	ILE	H	110	4.859	42.928-105.596	1.00	0.00	H
ATOM	8472	C	ILE	H	110	6.908	42.876-106.149	1.00	0.00	C
ATOM	8473	O	ILE	H	110	7.622	42.493-107.076	1.00	0.00	O
ATOM	8474	CB	ILE	H	110	5.723	41.243-104.565	1.00	0.00	C
ATOM	8475	HB	ILE	H	110	6.104	41.850-103.746	1.00	0.00	H
ATOM	8476	CG1	ILE	H	110	6.726	40.091-104.760	1.00	0.00	C
ATOM	8477	1HG1	ILE	H	110	6.395	39.458-105.583	1.00	0.00	H
ATOM	8478	2HG1	ILE	H	110	7.689	40.527-105.018	1.00	0.00	H
ATOM	8479	CG2	ILE	H	110	4.351	40.700-104.125	1.00	0.00	C
ATOM	8480	1HG2	ILE	H	110	4.418	40.295-103.118	1.00	0.00	H
ATOM	8481	2HG2	ILE	H	110	4.009	39.923-104.808	1.00	0.00	H
ATOM	8482	3HG2	ILE	H	110	3.618	41.503-104.115	1.00	0.00	H
ATOM	8483	CD1	ILE	H	110	6.932	39.208-103.519	1.00	0.00	C
ATOM	8484	1HD1	ILE	H	110	7.170	39.828-102.656	1.00	0.00	H
ATOM	8485	2HD1	ILE	H	110	7.757	38.519-103.695	1.00	0.00	H
ATOM	8486	3HD1	ILE	H	110	6.035	38.624-103.313	1.00	0.00	H
ATOM	8487	N	TYR	H	111	7.228	43.904-105.370	1.00	0.00	N
ATOM	8488	H	TYR	H	111	6.601	44.093-104.596	1.00	0.00	H
ATOM	8489	CA	TYR	H	111	8.331	44.854-105.538	1.00	0.00	C
ATOM	8490	HA	TYR	H	111	8.918	44.598-106.418	1.00	0.00	H
ATOM	8491	C	TYR	H	111	9.249	44.841-104.308	1.00	0.00	C
ATOM	8492	O	TYR	H	111	8.819	44.463-103.218	1.00	0.00	O
ATOM	8493	CB	TYR	H	111	7.714	46.245-105.743	1.00	0.00	C



ATOM	8494	1HB	TYR	H	111	7.146	46.239-106.673	1.00	0.00	H
ATOM	8495	2HB	TYR	H	111	7.006	46.436-104.935	1.00	0.00	H
ATOM	8496	CG	TYR	H	111	8.702	47.395-105.790	1.00	0.00	C
ATOM	8497	CD1	TYR	H	111	9.023	48.101-104.612	1.00	0.00	C
ATOM	8498	HD1	TYR	H	111	8.563	47.830-103.673	1.00	0.00	H
ATOM	8499	CD2	TYR	H	111	9.272	47.781-107.018	1.00	0.00	C
ATOM	8500	HD2	TYR	H	111	9.019	47.252-107.924	1.00	0.00	H
ATOM	8501	CE1	TYR	H	111	9.904	49.198-104.663	1.00	0.00	C
ATOM	8502	HE1	TYR	H	111	10.119	49.778-103.776	1.00	0.00	H
ATOM	8503	CE2	TYR	H	111	10.132	48.893-107.076	1.00	0.00	C
ATOM	8504	HE2	TYR	H	111	10.520	49.224-108.026	1.00	0.00	H
ATOM	8505	CZ	TYR	H	111	10.443	49.608-105.899	1.00	0.00	C
ATOM	8506	OH	TYR	H	111	11.238	50.706-105.956	1.00	0.00	O
ATOM	8507	HH	TYR	H	111	11.303	51.043-106.853	1.00	0.00	H
ATOM	8508	N	VAL	H	112	10.506	45.260-104.461	1.00	0.00	N
ATOM	8509	H	VAL	H	112	10.777	45.591-105.384	1.00	0.00	H
ATOM	8510	CA	VAL	H	112	11.566	45.153-103.446	1.00	0.00	C
ATOM	8511	HA	VAL	H	112	11.115	45.008-102.466	1.00	0.00	H
ATOM	8512	C	VAL	H	112	12.405	46.434-103.416	1.00	0.00	C
ATOM	8513	O	VAL	H	112	12.957	46.824-104.444	1.00	0.00	O
ATOM	8514	CB	VAL	H	112	12.478	43.945-103.749	1.00	0.00	C
ATOM	8515	HB	VAL	H	112	13.070	44.161-104.638	1.00	0.00	H
ATOM	8516	CG1	VAL	H	112	13.435	43.684-102.585	1.00	0.00	C
ATOM	8517	1HG1	VAL	H	112	12.872	43.458-101.679	1.00	0.00	H
ATOM	8518	2HG1	VAL	H	112	14.055	44.562-102.407	1.00	0.00	H
ATOM	8519	3HG1	VAL	H	112	14.090	42.845-102.823	1.00	0.00	H
ATOM	8520	CG2	VAL	H	112	11.714	42.638-104.006	1.00	0.00	C
ATOM	8521	1HG2	VAL	H	112	11.069	42.406-103.158	1.00	0.00	H
ATOM	8522	2HG2	VAL	H	112	12.426	41.830-104.161	1.00	0.00	H
ATOM	8523	3HG2	VAL	H	112	11.108	42.727-104.908	1.00	0.00	H
ATOM	8524	N	GLY	H	113	12.551	47.046-102.237	1.00	0.00	N
ATOM	8525	H	GLY	H	113	12.162	46.583-101.421	1.00	0.00	H
ATOM	8526	CA	GLY	H	113	13.247	48.321-102.002	1.00	0.00	C
ATOM	8527	1HA	GLY	H	113	13.813	48.605-102.889	1.00	0.00	H
ATOM	8528	2HA	GLY	H	113	12.507	49.101-101.817	1.00	0.00	H
ATOM	8529	C	GLY	H	113	14.209	48.266-100.805	1.00	0.00	C
ATOM	8530	O	GLY	H	113	14.279	47.255-100.107	1.00	0.00	O
ATOM	8531	N	ASN	H	114	14.979	49.341-100.582	1.00	0.00	N
ATOM	8532	H	ASN	H	114	14.762	50.188-101.090	1.00	0.00	H
ATOM	8533	CA	ASN	H	114	16.194	49.351 -99.743	1.00	0.00	C
ATOM	8534	HA	ASN	H	114	16.752	50.253 -99.998	1.00	0.00	H
ATOM	8535	C	ASN	H	114	17.138	48.161-100.035	1.00	0.00	C
ATOM	8536	O	ASN	H	114	17.261	47.235 -99.237	1.00	0.00	O
ATOM	8537	CB	ASN	H	114	15.835	49.485 -98.251	1.00	0.00	C
ATOM	8538	1HB	ASN	H	114	15.207	50.364 -98.105	1.00	0.00	H
ATOM	8539	2HB	ASN	H	114	15.284	48.607 -97.917	1.00	0.00	H
ATOM	8540	CG	ASN	H	114	17.086	49.658 -97.400	1.00	0.00	C
ATOM	8541	OD1	ASN	H	114	17.690	50.711 -97.362	1.00	0.00	O
ATOM	8542	ND2	ASN	H	114	17.572	48.629 -96.746	1.00	0.00	N
ATOM	8543	1HD2	ASN	H	114	18.428	48.800 -96.255	1.00	0.00	H
ATOM	8544	2HD2	ASN	H	114	17.297	47.695 -97.015	1.00	0.00	H
ATOM	8545	N	VAL	H	115	17.801	48.170-101.198	1.00	0.00	N
ATOM	8546	H	VAL	H	115	17.693	48.967-101.802	1.00	0.00	H
ATOM	8547	CA	VAL	H	115	18.647	47.054-101.664	1.00	0.00	C
ATOM	8548	HA	VAL	H	115	18.630	46.274-100.903	1.00	0.00	H
ATOM	8549	C	VAL	H	115	20.111	47.479-101.836	1.00	0.00	C
ATOM	8550	O	VAL	H	115	20.418	48.587-102.285	1.00	0.00	O
ATOM	8551	CB	VAL	H	115	18.087	46.412-102.952	1.00	0.00	C
ATOM	8552	HB	VAL	H	115	18.201	47.117-103.775	1.00	0.00	H
ATOM	8553	CG1	VAL	H	115	18.837	45.114-103.296	1.00	0.00	C
ATOM	8554	1HG1	VAL	H	115	19.865	45.335-103.584	1.00	0.00	H
ATOM	8555	2HG1	VAL	H	115	18.360	44.615-104.139	1.00	0.00	H
ATOM	8556	3HG1	VAL	H	115	18.827	44.435-102.443	1.00	0.00	H
ATOM	8557	CG2	VAL	H	115	16.598	46.061-102.815	1.00	0.00	C
ATOM	8558	1HG2	VAL	H	115	16.259	45.505-103.690	1.00	0.00	H
ATOM	8559	2HG2	VAL	H	115	16.000	46.968-102.746	1.00	0.00	H
ATOM	8560	3HG2	VAL	H	115	16.437	45.457-101.922	1.00	0.00	H
ATOM	8561	N	ASP	H	116	20.994	46.556-101.450	1.00	0.00	N
ATOM	8562	H	ASP	H	116	20.601	45.702-101.087	1.00	0.00	H
ATOM	8563	CA	ASP	H	116	22.460	46.609-101.488	1.00	0.00	C
ATOM	8564	HA	ASP	H	116	22.785	47.439-100.859	1.00	0.00	H
ATOM	8565	C	ASP	H	116	23.065	46.825-102.903	1.00	0.00	C
ATOM	8566	O	ASP	H	116	22.356	46.887-103.905	1.00	0.00	O
ATOM	8567	CB	ASP	H	116	22.936	45.299-100.831	1.00	0.00	C
ATOM	8568	1HB	ASP	H	116	22.363	45.127 -99.917	1.00	0.00	H
ATOM	8569	2HB	ASP	H	116	22.734	44.467-101.507	1.00	0.00	H
ATOM	8570	CG	ASP	H	116	24.414	45.303-100.462	1.00	0.00	C

ATOM	8571	OD1	ASP	H	116	24.764	45.658	-99.320	1.00	0.00	O
ATOM	8572	OD2	ASP	H	116	25.239	44.916	-101.313	1.00	0.00	O
ATOM	8573	N	TYR	H	117	24.397	46.929	-102.988	1.00	0.00	N
ATOM	8574	H	TYR	H	117	24.934	46.707	-102.156	1.00	0.00	H
ATOM	8575	CA	TYR	H	117	25.182	47.212	-104.196	1.00	0.00	C
ATOM	8576	HA	TYR	H	117	24.502	47.475	-105.004	1.00	0.00	H
ATOM	8577	C	TYR	H	117	26.001	46.017	-104.724	1.00	0.00	C
ATOM	8578	O	TYR	H	117	26.702	46.170	-105.725	1.00	0.00	O
ATOM	8579	CB	TYR	H	117	26.088	48.422	-103.907	1.00	0.00	C
ATOM	8580	1HB	TYR	H	117	26.586	48.718	-104.832	1.00	0.00	H
ATOM	8581	2HB	TYR	H	117	25.466	49.262	-103.597	1.00	0.00	H
ATOM	8582	CG	TYR	H	117	27.142	48.176	-102.839	1.00	0.00	C
ATOM	8583	CD1	TYR	H	117	26.874	48.492	-101.492	1.00	0.00	C
ATOM	8584	HD1	TYR	H	117	25.921	48.916	-101.211	1.00	0.00	H
ATOM	8585	CD2	TYR	H	117	28.376	47.591	-103.190	1.00	0.00	C
ATOM	8586	HD2	TYR	H	117	28.573	47.328	-104.221	1.00	0.00	H
ATOM	8587	CE1	TYR	H	117	27.837	48.224	-100.499	1.00	0.00	C
ATOM	8588	HE1	TYR	H	117	27.628	48.436	-99.462	1.00	0.00	H
ATOM	8589	CE2	TYR	H	117	29.336	47.311	-102.198	1.00	0.00	C
ATOM	8590	HE2	TYR	H	117	30.269	46.843	-102.470	1.00	0.00	H
ATOM	8591	CZ	TYR	H	117	29.065	47.627	-100.849	1.00	0.00	C
ATOM	8592	OH	TYR	H	117	29.987	47.360	-99.887	1.00	0.00	O
ATOM	8593	HH	TYR	H	117	30.739	46.881	-100.238	1.00	0.00	H
ATOM	8594	N	ALA	H	118	25.914	44.847	-104.085	1.00	0.00	N
ATOM	8595	H	ALA	H	118	25.461	44.839	-103.174	1.00	0.00	H
ATOM	8596	CA	ALA	H	118	26.571	43.604	-104.511	1.00	0.00	C
ATOM	8597	HA	ALA	H	118	26.958	43.733	-105.522	1.00	0.00	H
ATOM	8598	C	ALA	H	118	25.619	42.385	-104.575	1.00	0.00	C
ATOM	8599	O	ALA	H	118	26.054	41.293	-104.935	1.00	0.00	O
ATOM	8600	CB	ALA	H	118	27.762	43.360	-103.575	1.00	0.00	C
ATOM	8601	1HB	ALA	H	118	27.402	43.216	-102.556	1.00	0.00	H
ATOM	8602	2HB	ALA	H	118	28.436	44.216	-103.604	1.00	0.00	H
ATOM	8603	3HB	ALA	H	118	28.300	42.467	-103.893	1.00	0.00	H
ATOM	8604	N	CYS	H	119	24.336	42.583	-104.253	1.00	0.00	N
ATOM	8605	H	CYS	H	119	24.069	43.519	-104.006	1.00	0.00	H
ATOM	8606	CA	CYS	H	119	23.263	41.595	-104.394	1.00	0.00	C
ATOM	8607	HA	CYS	H	119	23.575	40.650	-103.941	1.00	0.00	H
ATOM	8608	C	CYS	H	119	22.916	41.325	-105.876	1.00	0.00	C
ATOM	8609	O	CYS	H	119	23.102	42.192	-106.734	1.00	0.00	O
ATOM	8610	CB	CYS	H	119	22.057	42.161	-103.625	1.00	0.00	C
ATOM	8611	1HB	CYS	H	119	22.372	42.420	-102.615	1.00	0.00	H
ATOM	8612	2HB	CYS	H	119	21.697	43.058	-104.133	1.00	0.00	H
ATOM	8613	SG	CYS	H	119	20.707	40.956	-103.508	1.00	0.00	S
ATOM	8614	HG	CYS	H	119	19.823	41.736	-102.877	1.00	0.00	H
ATOM	8615	N	THR	H	120	22.340	40.157	-106.168	1.00	0.00	N
ATOM	8616	H	THR	H	120	22.279	39.472	-105.417	1.00	0.00	H
ATOM	8617	CA	THR	H	120	21.957	39.704	-107.516	1.00	0.00	C
ATOM	8618	HA	THR	H	120	22.155	40.504	-108.226	1.00	0.00	H
ATOM	8619	C	THR	H	120	20.468	39.334	-107.600	1.00	0.00	C
ATOM	8620	O	THR	H	120	19.907	38.803	-106.639	1.00	0.00	O
ATOM	8621	CB	THR	H	120	22.793	38.482	-107.938	1.00	0.00	C
ATOM	8622	HB	THR	H	120	22.474	38.175	-108.934	1.00	0.00	H
ATOM	8623	OG1	THR	H	120	22.602	37.396	-107.059	1.00	0.00	O
ATOM	8624	HG1	THR	H	120	22.950	37.665	-106.177	1.00	0.00	H
ATOM	8625	CG2	THR	H	120	24.291	38.779	-107.990	1.00	0.00	C
ATOM	8626	1HG2	THR	H	120	24.474	39.628	-108.648	1.00	0.00	H
ATOM	8627	2HG2	THR	H	120	24.816	37.906	-108.376	1.00	0.00	H
ATOM	8628	3HG2	THR	H	120	24.667	39.008	-106.992	1.00	0.00	H
ATOM	8629	N	PRO	H	121	19.784	39.548	-108.742	1.00	0.00	N
ATOM	8630	CA	PRO	H	121	18.396	39.105	-108.896	1.00	0.00	C
ATOM	8631	HA	PRO	H	121	17.786	39.535	-108.103	1.00	0.00	H
ATOM	8632	C	PRO	H	121	18.271	37.574	-108.820	1.00	0.00	C
ATOM	8633	O	PRO	H	121	17.267	37.059	-108.325	1.00	0.00	O
ATOM	8634	CB	PRO	H	121	17.929	39.670	-110.238	1.00	0.00	C
ATOM	8635	1HB	PRO	H	121	17.239	39.002	-110.748	1.00	0.00	H
ATOM	8636	2HB	PRO	H	121	17.466	40.641	-110.074	1.00	0.00	H
ATOM	8637	CG	PRO	H	121	19.215	39.846	-111.036	1.00	0.00	C
ATOM	8638	1HG	PRO	H	121	19.444	38.911	-111.542	1.00	0.00	H
ATOM	8639	2HG	PRO	H	121	19.131	40.646	-111.766	1.00	0.00	H
ATOM	8640	CD	PRO	H	121	20.274	40.149	-109.974	1.00	0.00	C
ATOM	8641	1HD	PRO	H	121	21.236	39.731	-110.273	1.00	0.00	H
ATOM	8642	2HD	PRO	H	121	20.363	41.227	-109.839	1.00	0.00	H
ATOM	8643	N	GLU	H	122	19.311	36.851	-109.247	1.00	0.00	N
ATOM	8644	H	GLU	H	122	20.087	37.336	-109.696	1.00	0.00	H
ATOM	8645	CA	GLU	H	122	19.454	35.405	-109.079	1.00	0.00	C
ATOM	8646	HA	GLU	H	122	18.669	34.908	-109.644	1.00	0.00	H
ATOM	8647	C	GLU	H	122	19.298	34.954	-107.613	1.00	0.00	C

ATOM	8648	O	GLU	H	122	18.554	34.005-107.350	1.00	0.00	O
ATOM	8649	CB	GLU	H	122	20.816	34.952-109.640	1.00	0.00	C
ATOM	8650	1HB	GLU	H	122	21.616	35.555-109.208	1.00	0.00	H
ATOM	8651	2HB	GLU	H	122	20.978	33.922-109.318	1.00	0.00	H
ATOM	8652	CG	GLU	H	122	20.925	34.961-111.178	1.00	0.00	C
ATOM	8653	1HG	GLU	H	122	21.837	34.423-111.448	1.00	0.00	H
ATOM	8654	2HG	GLU	H	122	20.082	34.395-111.583	1.00	0.00	H
ATOM	8655	CD	GLU	H	122	20.976	36.346-111.845	1.00	0.00	C
ATOM	8656	OE1	GLU	H	122	20.630	36.437-113.046	1.00	0.00	O
ATOM	8657	OE2	GLU	H	122	21.336	37.353-111.198	1.00	0.00	O
ATOM	8658	N	GLU	H	123	19.933	35.631-106.647	1.00	0.00	N
ATOM	8659	H	GLU	H	123	20.550	36.401-106.893	1.00	0.00	H
ATOM	8660	CA	GLU	H	123	19.786	35.272-105.229	1.00	0.00	C
ATOM	8661	HA	GLU	H	123	19.645	34.194-105.191	1.00	0.00	H
ATOM	8662	C	GLU	H	123	18.537	35.881-104.568	1.00	0.00	C
ATOM	8663	O	GLU	H	123	17.983	35.263-103.659	1.00	0.00	O
ATOM	8664	CB	GLU	H	123	21.080	35.537-104.442	1.00	0.00	C
ATOM	8665	1HB	GLU	H	123	21.109	34.858-103.589	1.00	0.00	H
ATOM	8666	2HB	GLU	H	123	21.927	35.287-105.083	1.00	0.00	H
ATOM	8667	CG	GLU	H	123	21.239	36.965-103.912	1.00	0.00	C
ATOM	8668	1HG	GLU	H	123	20.811	37.668-104.622	1.00	0.00	H
ATOM	8669	2HG	GLU	H	123	20.694	37.067-102.970	1.00	0.00	H
ATOM	8670	CD	GLU	H	123	22.715	37.300-103.713	1.00	0.00	C
ATOM	8671	OE1	GLU	H	123	23.256	38.045-104.562	1.00	0.00	O
ATOM	8672	OE2	GLU	H	123	23.317	36.832-102.721	1.00	0.00	O
ATOM	8673	N	VAL	H	124	18.023	37.018-105.060	1.00	0.00	N
ATOM	8674	H	VAL	H	124	18.555	37.513-105.771	1.00	0.00	H
ATOM	8675	CA	VAL	H	124	16.720	37.566-104.627	1.00	0.00	C
ATOM	8676	HA	VAL	H	124	16.766	37.756-103.560	1.00	0.00	H
ATOM	8677	C	VAL	H	124	15.603	36.542-104.824	1.00	0.00	C
ATOM	8678	O	VAL	H	124	14.880	36.236-103.873	1.00	0.00	O
ATOM	8679	CB	VAL	H	124	16.392	38.901-105.333	1.00	0.00	C
ATOM	8680	HB	VAL	H	124	16.527	38.778-106.405	1.00	0.00	H
ATOM	8681	CG1	VAL	H	124	14.955	39.384-105.089	1.00	0.00	C
ATOM	8682	1HG1	VAL	H	124	14.810	40.364-105.543	1.00	0.00	H
ATOM	8683	2HG1	VAL	H	124	14.764	39.451-104.017	1.00	0.00	H
ATOM	8684	3HG1	VAL	H	124	14.240	38.696-105.540	1.00	0.00	H
ATOM	8685	CG2	VAL	H	124	17.312	40.025-104.842	1.00	0.00	C
ATOM	8686	1HG2	VAL	H	124	17.163	40.919-105.447	1.00	0.00	H
ATOM	8687	2HG2	VAL	H	124	18.354	39.724-104.922	1.00	0.00	H
ATOM	8688	3HG2	VAL	H	124	17.098	40.258-103.799	1.00	0.00	H
ATOM	8689	N	GLN	H	125	15.482	35.954-106.022	1.00	0.00	N
ATOM	8690	H	GLN	H	125	16.107	36.223-106.776	1.00	0.00	H
ATOM	8691	CA	GLN	H	125	14.459	34.928-106.243	1.00	0.00	C
ATOM	8692	HA	GLN	H	125	13.522	35.341-105.864	1.00	0.00	H
ATOM	8693	C	GLN	H	125	14.705	33.660-105.407	1.00	0.00	C
ATOM	8694	O	GLN	H	125	13.742	33.119-104.870	1.00	0.00	O
ATOM	8695	CB	GLN	H	125	14.209	34.666-107.742	1.00	0.00	C
ATOM	8696	1HB	GLN	H	125	13.333	34.022-107.835	1.00	0.00	H
ATOM	8697	2HB	GLN	H	125	13.963	35.621-108.205	1.00	0.00	H
ATOM	8698	CG	GLN	H	125	15.363	34.029-108.532	1.00	0.00	C
ATOM	8699	1HG	GLN	H	125	16.265	34.608-108.348	1.00	0.00	H
ATOM	8700	2HG	GLN	H	125	15.534	33.010-108.186	1.00	0.00	H
ATOM	8701	CD	GLN	H	125	15.120	34.006-110.046	1.00	0.00	C
ATOM	8702	OE1	GLN	H	125	14.001	34.050-110.541	1.00	0.00	O
ATOM	8703	NE2	GLN	H	125	16.178	33.956-110.827	1.00	0.00	N
ATOM	8704	1HE2	GLN	H	125	16.064	34.104-111.831	1.00	0.00	H
ATOM	8705	2HE2	GLN	H	125	17.094	33.915-110.430	1.00	0.00	H
ATOM	8706	N	GLN	H	126	15.955	33.211-105.201	1.00	0.00	N
ATOM	8707	H	GLN	H	126	16.730	33.691-105.644	1.00	0.00	H
ATOM	8708	CA	GLN	H	126	16.225	32.017-104.377	1.00	0.00	C
ATOM	8709	HA	GLN	H	126	15.510	31.257-104.698	1.00	0.00	H
ATOM	8710	C	GLN	H	126	15.951	32.229-102.872	1.00	0.00	C
ATOM	8711	O	GLN	H	126	15.460	31.313-102.207	1.00	0.00	O
ATOM	8712	CB	GLN	H	126	17.622	31.430-104.683	1.00	0.00	C
ATOM	8713	1HB	GLN	H	126	17.547	30.342-104.635	1.00	0.00	H
ATOM	8714	2HB	GLN	H	126	17.875	31.672-105.716	1.00	0.00	H
ATOM	8715	CG	GLN	H	126	18.801	31.862-103.788	1.00	0.00	C
ATOM	8716	1HG	GLN	H	126	19.727	31.717-104.345	1.00	0.00	H
ATOM	8717	2HG	GLN	H	126	18.725	32.917-103.551	1.00	0.00	H
ATOM	8718	CD	GLN	H	126	18.920	31.049-102.499	1.00	0.00	C
ATOM	8719	OE1	GLN	H	126	19.151	29.852-102.510	1.00	0.00	O
ATOM	8720	NE2	GLN	H	126	18.784	31.658-101.342	1.00	0.00	N
ATOM	8721	1HE2	GLN	H	126	18.834	31.076-100.526	1.00	0.00	H
ATOM	8722	2HE2	GLN	H	126	18.630	32.650-101.288	1.00	0.00	H
ATOM	8723	N	HIS	H	127	16.205	33.432-102.333	1.00	0.00	N
ATOM	8724	H	HIS	H	127	16.617	34.154-102.919	1.00	0.00	H

ATOM	8725	CA	HIS	H	127	15.832	33.792-100.957	1.00	0.00	C
ATOM	8726	HA	HIS	H	127	16.307	33.101-100.259	1.00	0.00	H
ATOM	8727	C	HIS	H	127	14.319	33.657-100.755	1.00	0.00	C
ATOM	8728	O	HIS	H	127	13.879	32.936 -99.862	1.00	0.00	O
ATOM	8729	CB	HIS	H	127	16.289	35.225-100.620	1.00	0.00	C
ATOM	8730	1HB	HIS	H	127	16.354	35.819-101.532	1.00	0.00	H
ATOM	8731	2HB	HIS	H	127	15.530	35.691 -99.990	1.00	0.00	H
ATOM	8732	CG	HIS	H	127	17.597	35.318 -99.869	1.00	0.00	C
ATOM	8733	ND1	HIS	H	127	17.749	35.645 -98.536	1.00	0.00	N
ATOM	8734	HD1	HIS	H	127	17.029	35.985 -97.902	1.00	0.00	H
ATOM	8735	CD2	HIS	H	127	18.857	35.191-100.393	1.00	0.00	C
ATOM	8736	HD2	HIS	H	127	19.100	34.995-101.427	1.00	0.00	H
ATOM	8737	CE1	HIS	H	127	19.063	35.672 -98.256	1.00	0.00	C
ATOM	8738	HE1	HIS	H	127	19.487	35.934 -97.292	1.00	0.00	H
ATOM	8739	NE2	HIS	H	127	19.778	35.422 -99.366	1.00	0.00	N
ATOM	8740	N	PHE	H	128	13.510	34.285-101.614	1.00	0.00	N
ATOM	8741	H	PHE	H	128	13.915	34.882-102.329	1.00	0.00	H
ATOM	8742	CA	PHE	H	128	12.053	34.197-101.504	1.00	0.00	C
ATOM	8743	HA	PHE	H	128	11.765	34.428-100.478	1.00	0.00	H
ATOM	8744	C	PHE	H	128	11.524	32.778-101.780	1.00	0.00	C
ATOM	8745	O	PHE	H	128	10.683	32.292-101.023	1.00	0.00	O
ATOM	8746	CB	PHE	H	128	11.412	35.239-102.428	1.00	0.00	C
ATOM	8747	1HB	PHE	H	128	11.687	34.984-103.449	1.00	0.00	H
ATOM	8748	2HB	PHE	H	128	10.327	35.159-102.342	1.00	0.00	H
ATOM	8749	CG	PHE	H	128	11.796	36.695-102.195	1.00	0.00	C
ATOM	8750	CD1	PHE	H	128	12.148	37.187-100.920	1.00	0.00	C
ATOM	8751	HD1	PHE	H	128	12.177	36.533-100.062	1.00	0.00	H
ATOM	8752	CD2	PHE	H	128	11.780	37.579-103.289	1.00	0.00	C
ATOM	8753	HD2	PHE	H	128	11.536	37.210-104.273	1.00	0.00	H
ATOM	8754	CE1	PHE	H	128	12.473	38.546-100.747	1.00	0.00	C
ATOM	8755	HE1	PHE	H	128	12.755	38.913 -99.768	1.00	0.00	H
ATOM	8756	CE2	PHE	H	128	12.082	38.940-103.114	1.00	0.00	C
ATOM	8757	HE2	PHE	H	128	12.056	39.605-103.963	1.00	0.00	H
ATOM	8758	CZ	PHE	H	128	12.432	39.426-101.842	1.00	0.00	C
ATOM	8759	HZ	PHE	H	128	12.674	40.471-101.706	1.00	0.00	H
ATOM	8760	N	GLN	H	129	12.064	32.069-102.783	1.00	0.00	N
ATOM	8761	H	GLN	H	129	12.746	32.524-103.383	1.00	0.00	H
ATOM	8762	CA	GLN	H	129	11.683	30.683-103.103	1.00	0.00	C
ATOM	8763	HA	GLN	H	129	10.613	30.681-103.299	1.00	0.00	H
ATOM	8764	C	GLN	H	129	11.926	29.704-101.940	1.00	0.00	C
ATOM	8765	O	GLN	H	129	11.218	28.705-101.823	1.00	0.00	O
ATOM	8766	CB	GLN	H	129	12.400	30.209-104.383	1.00	0.00	C
ATOM	8767	1HB	GLN	H	129	12.467	31.031-105.091	1.00	0.00	H
ATOM	8768	2HB	GLN	H	129	13.414	29.887-104.140	1.00	0.00	H
ATOM	8769	CG	GLN	H	129	11.646	29.075-105.094	1.00	0.00	C
ATOM	8770	1HG	GLN	H	129	11.595	28.202-104.443	1.00	0.00	H
ATOM	8771	2HG	GLN	H	129	10.631	29.400-105.319	1.00	0.00	H
ATOM	8772	CD	GLN	H	129	12.337	28.672-106.393	1.00	0.00	C
ATOM	8773	OE1	GLN	H	129	13.214	27.825-106.416	1.00	0.00	O
ATOM	8774	NE2	GLN	H	129	11.978	29.237-107.525	1.00	0.00	N
ATOM	8775	1HE2	GLN	H	129	12.491	28.961-108.340	1.00	0.00	H
ATOM	8776	2HE2	GLN	H	129	11.243	29.937-107.580	1.00	0.00	H
ATOM	8777	N	SER	H	130	12.880	30.012-101.052	1.00	0.00	N
ATOM	8778	H	SER	H	130	13.430	30.846-101.217	1.00	0.00	H
ATOM	8779	CA	SER	H	130	13.139	29.257 -99.816	1.00	0.00	C
ATOM	8780	HA	SER	H	130	13.239	28.203-100.074	1.00	0.00	H
ATOM	8781	C	SER	H	130	12.013	29.355 -98.769	1.00	0.00	C
ATOM	8782	O	SER	H	130	11.990	28.551 -97.836	1.00	0.00	O
ATOM	8783	CB	SER	H	130	14.460	29.706 -99.181	1.00	0.00	C
ATOM	8784	1HB	SER	H	130	14.399	30.753 -98.887	1.00	0.00	H
ATOM	8785	2HB	SER	H	130	14.641	29.112 -98.284	1.00	0.00	H
ATOM	8786	OG	SER	H	130	15.546	29.516-100.073	1.00	0.00	O
ATOM	8787	HG	SER	H	130	15.473	30.148-100.812	1.00	0.00	H
ATOM	8788	N	CYS	H	131	11.065	30.287 -98.932	1.00	0.00	N
ATOM	8789	H	CYS	H	131	11.173	30.930 -99.707	1.00	0.00	H
ATOM	8790	CA	CYS	H	131	9.948	30.530 -98.009	1.00	0.00	C
ATOM	8791	HA	CYS	H	131	9.972	29.805 -97.195	1.00	0.00	H
ATOM	8792	C	CYS	H	131	8.564	30.408 -98.676	1.00	0.00	C
ATOM	8793	O	CYS	H	131	7.612	29.973 -98.030	1.00	0.00	O
ATOM	8794	CB	CYS	H	131	10.103	31.932 -97.407	1.00	0.00	C
ATOM	8795	1HB	CYS	H	131	10.190	32.673 -98.204	1.00	0.00	H
ATOM	8796	2HB	CYS	H	131	9.216	32.161 -96.819	1.00	0.00	H
ATOM	8797	SG	CYS	H	131	11.553	32.037 -96.323	1.00	0.00	S
ATOM	8798	HG	CYS	H	131	11.341	33.322 -95.981	1.00	0.00	H
ATOM	8799	N	GLY	H	132	8.440	30.742 -99.963	1.00	0.00	N
ATOM	8800	H	GLY	H	132	9.242	31.151-100.436	1.00	0.00	H
ATOM	8801	CA	GLY	H	132	7.218	30.574-100.752	1.00	0.00	C

ATOM	8802	1HA	GLY	H	132	6.739	29.633-100.483	1.00	0.00	H
ATOM	8803	2HA	GLY	H	132	6.528	31.390-100.540	1.00	0.00	H
ATOM	8804	C	GLY	H	132	7.534	30.575-102.247	1.00	0.00	C
ATOM	8805	O	GLY	H	132	8.366	31.352-102.706	1.00	0.00	O
ATOM	8806	N	THR	H	133	6.912	29.675-103.015	1.00	0.00	N
ATOM	8807	H	THR	H	133	6.208	29.087-102.603	1.00	0.00	H
ATOM	8808	CA	THR	H	133	7.276	29.483-104.430	1.00	0.00	C
ATOM	8809	HA	THR	H	133	8.340	29.248-104.442	1.00	0.00	H
ATOM	8810	C	THR	H	133	7.094	30.761-105.257	1.00	0.00	C
ATOM	8811	O	THR	H	133	6.025	31.367-105.271	1.00	0.00	O
ATOM	8812	CB	THR	H	133	6.575	28.266-105.054	1.00	0.00	C
ATOM	8813	HB	THR	H	133	6.833	27.392-104.454	1.00	0.00	H
ATOM	8814	OG1	THR	H	133	7.048	28.057-106.361	1.00	0.00	O
ATOM	8815	HG1	THR	H	133	6.524	28.618-106.945	1.00	0.00	H
ATOM	8816	CG2	THR	H	133	5.056	28.341-105.156	1.00	0.00	C
ATOM	8817	1HG2	THR	H	133	4.664	27.364-105.440	1.00	0.00	H
ATOM	8818	2HG2	THR	H	133	4.776	29.066-105.918	1.00	0.00	H
ATOM	8819	3HG2	THR	H	133	4.626	28.632-104.199	1.00	0.00	H
ATOM	8820	N	VAL	H	134	8.155	31.140-105.969	1.00	0.00	N
ATOM	8821	H	VAL	H	134	8.976	30.556-105.928	1.00	0.00	H
ATOM	8822	CA	VAL	H	134	8.275	32.348-106.796	1.00	0.00	C
ATOM	8823	HA	VAL	H	134	7.279	32.714-107.036	1.00	0.00	H
ATOM	8824	C	VAL	H	134	8.988	31.974-108.099	1.00	0.00	C
ATOM	8825	O	VAL	H	134	9.781	31.027-108.115	1.00	0.00	O
ATOM	8826	CB	VAL	H	134	8.996	33.461-106.010	1.00	0.00	C
ATOM	8827	HB	VAL	H	134	8.531	33.535-105.026	1.00	0.00	H
ATOM	8828	CG1	VAL	H	134	10.485	33.177-105.806	1.00	0.00	C
ATOM	8829	1HG1	VAL	H	134	10.593	32.246-105.259	1.00	0.00	H
ATOM	8830	2HG1	VAL	H	134	10.934	33.977-105.224	1.00	0.00	H
ATOM	8831	3HG1	VAL	H	134	11.011	33.110-106.758	1.00	0.00	H
ATOM	8832	CG2	VAL	H	134	8.846	34.827-106.675	1.00	0.00	C
ATOM	8833	1HG2	VAL	H	134	7.789	35.071-106.783	1.00	0.00	H
ATOM	8834	2HG2	VAL	H	134	9.331	34.840-107.651	1.00	0.00	H
ATOM	8835	3HG2	VAL	H	134	9.307	35.581-106.040	1.00	0.00	H
ATOM	8836	N	ASN	H	135	8.662	32.656-109.197	1.00	0.00	N
ATOM	8837	H	ASN	H	135	8.015	33.435-109.099	1.00	0.00	H
ATOM	8838	CA	ASN	H	135	8.947	32.188-110.555	1.00	0.00	C
ATOM	8839	HA	ASN	H	135	9.281	31.149-110.536	1.00	0.00	H
ATOM	8840	C	ASN	H	135	10.062	32.992-111.234	1.00	0.00	C
ATOM	8841	O	ASN	H	135	11.074	32.409-111.617	1.00	0.00	O
ATOM	8842	CB	ASN	H	135	7.624	32.251-111.345	1.00	0.00	C
ATOM	8843	1HB	ASN	H	135	6.925	31.512-110.961	1.00	0.00	H
ATOM	8844	2HB	ASN	H	135	7.180	33.234-111.201	1.00	0.00	H
ATOM	8845	CG	ASN	H	135	7.757	32.025-112.842	1.00	0.00	C
ATOM	8846	OD1	ASN	H	135	8.650	31.355-113.332	1.00	0.00	O
ATOM	8847	ND2	ASN	H	135	6.876	32.603-113.617	1.00	0.00	N
ATOM	8848	1HD2	ASN	H	135	6.929	32.459-114.604	1.00	0.00	H
ATOM	8849	2HD2	ASN	H	135	6.145	33.186-113.186	1.00	0.00	H
ATOM	8850	N	ARG	H	136	9.874	34.307-111.401	1.00	0.00	N
ATOM	8851	H	ARG	H	136	9.060	34.716-110.962	1.00	0.00	H
ATOM	8852	CA	ARG	H	136	10.684	35.194-112.263	1.00	0.00	C
ATOM	8853	HA	ARG	H	136	11.615	34.693-112.530	1.00	0.00	H
ATOM	8854	C	ARG	H	136	11.097	36.460-111.509	1.00	0.00	C
ATOM	8855	O	ARG	H	136	10.479	36.790-110.499	1.00	0.00	O
ATOM	8856	CB	ARG	H	136	9.869	35.545-113.537	1.00	0.00	C
ATOM	8857	1HB	ARG	H	136	8.867	35.116-113.473	1.00	0.00	H
ATOM	8858	2HB	ARG	H	136	9.728	36.627-113.575	1.00	0.00	H
ATOM	8859	CG	ARG	H	136	10.490	35.121-114.883	1.00	0.00	C
ATOM	8860	1HG	ARG	H	136	9.944	35.636-115.674	1.00	0.00	H
ATOM	8861	2HG	ARG	H	136	11.528	35.455-114.932	1.00	0.00	H
ATOM	8862	CD	ARG	H	136	10.405	33.614-115.181	1.00	0.00	C
ATOM	8863	1HD	ARG	H	136	9.380	33.280-115.017	1.00	0.00	H
ATOM	8864	2HD	ARG	H	136	10.634	33.443-116.230	1.00	0.00	H
ATOM	8865	NE	ARG	H	136	11.313	32.826-114.335	1.00	0.00	N
ATOM	8866	HE	ARG	H	136	10.914	32.420-113.495	1.00	0.00	H
ATOM	8867	CZ	ARG	H	136	12.629	32.786-114.386	1.00	0.00	C
ATOM	8868	NH1	ARG	H	136	13.317	33.128-115.427	1.00	0.00	N
ATOM	8869	1HH1	ARG	H	136	12.857	33.307-116.310	1.00	0.00	H
ATOM	8870	2HH1	ARG	H	136	14.331	33.060-115.323	1.00	0.00	H
ATOM	8871	NH2	ARG	H	136	13.317	32.430-113.349	1.00	0.00	N
ATOM	8872	1HH2	ARG	H	136	12.854	32.334-112.453	1.00	0.00	H
ATOM	8873	2HH2	ARG	H	136	14.333	32.519-113.420	1.00	0.00	H
ATOM	8874	N	VAL	H	137	12.104	37.171-112.026	1.00	0.00	N
ATOM	8875	H	VAL	H	137	12.541	36.836-112.870	1.00	0.00	H
ATOM	8876	CA	VAL	H	137	12.709	38.363-111.405	1.00	0.00	C
ATOM	8877	HA	VAL	H	137	11.949	38.865-110.809	1.00	0.00	H
ATOM	8878	C	VAL	H	137	13.225	39.355-112.454	1.00	0.00	C

ATOM	8879	O	VAL	H	137	13.789	38.937-113.464	1.00	0.00	O
ATOM	8880	CB	VAL	H	137	13.859	37.926-110.463	1.00	0.00	C
ATOM	8881	HB	VAL	H	137	13.445	37.203-109.763	1.00	0.00	H
ATOM	8882	CG1	VAL	H	137	15.024	37.236-111.188	1.00	0.00	C
ATOM	8883	1HG1	VAL	H	137	15.531	37.929-111.855	1.00	0.00	H
ATOM	8884	2HG1	VAL	H	137	14.660	36.390-111.771	1.00	0.00	H
ATOM	8885	3HG1	VAL	H	137	15.738	36.862-110.457	1.00	0.00	H
ATOM	8886	CG2	VAL	H	137	14.428	39.085-109.633	1.00	0.00	C
ATOM	8887	1HG2	VAL	H	137	15.129	38.693-108.896	1.00	0.00	H
ATOM	8888	2HG2	VAL	H	137	13.626	39.597-109.104	1.00	0.00	H
ATOM	8889	3HG2	VAL	H	137	14.944	39.801-110.270	1.00	0.00	H
ATOM	8890	N	THR	H	138	13.114	40.656-112.167	1.00	0.00	N
ATOM	8891	H	THR	H	138	12.627	40.906-111.310	1.00	0.00	H
ATOM	8892	CA	THR	H	138	13.794	41.750-112.898	1.00	0.00	C
ATOM	8893	HA	THR	H	138	14.675	41.343-113.394	1.00	0.00	H
ATOM	8894	C	THR	H	138	14.256	42.817-111.895	1.00	0.00	C
ATOM	8895	O	THR	H	138	13.659	42.962-110.828	1.00	0.00	O
ATOM	8896	CB	THR	H	138	12.892	42.380-113.982	1.00	0.00	C
ATOM	8897	HB	THR	H	138	12.059	42.898-113.511	1.00	0.00	H
ATOM	8898	OG1	THR	H	138	12.379	41.397-114.848	1.00	0.00	O
ATOM	8899	HG1	THR	H	138	11.834	41.844-115.502	1.00	0.00	H
ATOM	8900	CG2	THR	H	138	13.624	43.365-114.894	1.00	0.00	C
ATOM	8901	1HG2	THR	H	138	13.891	44.267-114.345	1.00	0.00	H
ATOM	8902	2HG2	THR	H	138	12.975	43.664-115.718	1.00	0.00	H
ATOM	8903	3HG2	THR	H	138	14.523	42.903-115.305	1.00	0.00	H
ATOM	8904	N	ILE	H	139	15.323	43.560-112.212	1.00	0.00	N
ATOM	8905	H	ILE	H	139	15.721	43.467-113.135	1.00	0.00	H
ATOM	8906	CA	ILE	H	139	16.022	44.470-111.288	1.00	0.00	C
ATOM	8907	HA	ILE	H	139	15.357	44.710-110.459	1.00	0.00	H
ATOM	8908	C	ILE	H	139	16.396	45.795-111.968	1.00	0.00	C
ATOM	8909	O	ILE	H	139	16.714	45.825-113.157	1.00	0.00	O
ATOM	8910	CB	ILE	H	139	17.263	43.746-110.705	1.00	0.00	C
ATOM	8911	HB	ILE	H	139	16.902	42.805-110.292	1.00	0.00	H
ATOM	8912	CG1	ILE	H	139	17.910	44.527-109.542	1.00	0.00	C
ATOM	8913	1HG1	ILE	H	139	18.440	45.400-109.923	1.00	0.00	H
ATOM	8914	2HG1	ILE	H	139	17.124	44.874-108.876	1.00	0.00	H
ATOM	8915	CG2	ILE	H	139	18.312	43.419-111.788	1.00	0.00	C
ATOM	8916	1HG2	ILE	H	139	19.141	42.863-111.357	1.00	0.00	H
ATOM	8917	2HG2	ILE	H	139	18.711	44.334-112.225	1.00	0.00	H
ATOM	8918	3HG2	ILE	H	139	17.871	42.811-112.577	1.00	0.00	H
ATOM	8919	CD1	ILE	H	139	18.886	43.677-108.713	1.00	0.00	C
ATOM	8920	1HD1	ILE	H	139	18.405	42.750-108.399	1.00	0.00	H
ATOM	8921	2HD1	ILE	H	139	19.188	44.229-107.825	1.00	0.00	H
ATOM	8922	3HD1	ILE	H	139	19.781	43.451-109.290	1.00	0.00	H
ATOM	8923	N	LEU	H	140	16.419	46.879-111.192	1.00	0.00	N
ATOM	8924	H	LEU	H	140	16.095	46.784-110.233	1.00	0.00	H
ATOM	8925	CA	LEU	H	140	16.785	48.228-111.619	1.00	0.00	C
ATOM	8926	HA	LEU	H	140	17.250	48.155-112.602	1.00	0.00	H
ATOM	8927	C	LEU	H	140	17.848	48.809-110.674	1.00	0.00	C
ATOM	8928	O	LEU	H	140	17.607	49.708-109.874	1.00	0.00	O
ATOM	8929	CB	LEU	H	140	15.514	49.087-111.779	1.00	0.00	C
ATOM	8930	1HB	LEU	H	140	14.863	48.583-112.495	1.00	0.00	H
ATOM	8931	2HB	LEU	H	140	14.990	49.123-110.822	1.00	0.00	H
ATOM	8932	CG	LEU	H	140	15.743	50.537-112.262	1.00	0.00	C
ATOM	8933	HG	LEU	H	140	16.140	51.138-111.445	1.00	0.00	H
ATOM	8934	CD1	LEU	H	140	16.709	50.643-113.449	1.00	0.00	C
ATOM	8935	1HD1	LEU	H	140	17.713	50.366-113.133	1.00	0.00	H
ATOM	8936	2HD1	LEU	H	140	16.731	51.671-113.807	1.00	0.00	H
ATOM	8937	3HD1	LEU	H	140	16.376	49.986-114.253	1.00	0.00	H
ATOM	8938	CD2	LEU	H	140	14.413	51.151-112.702	1.00	0.00	C
ATOM	8939	1HD2	LEU	H	140	14.019	50.623-113.571	1.00	0.00	H
ATOM	8940	2HD2	LEU	H	140	14.550	52.204-112.947	1.00	0.00	H
ATOM	8941	3HD2	LEU	H	140	13.690	51.078-111.891	1.00	0.00	H
ATOM	8942	N	THR	H	141	19.069	48.281-110.779	1.00	0.00	N
ATOM	8943	H	THR	H	141	19.192	47.474-111.371	1.00	0.00	H
ATOM	8944	CA	THR	H	141	20.255	48.877-110.149	1.00	0.00	C
ATOM	8945	HA	THR	H	141	20.141	48.785-109.073	1.00	0.00	H
ATOM	8946	C	THR	H	141	20.379	50.364-110.482	1.00	0.00	C
ATOM	8947	O	THR	H	141	20.446	50.740-111.655	1.00	0.00	O
ATOM	8948	CB	THR	H	141	21.525	48.121-110.572	1.00	0.00	C
ATOM	8949	HB	THR	H	141	21.491	47.955-111.649	1.00	0.00	H
ATOM	8950	OG1	THR	H	141	21.537	46.872-109.932	1.00	0.00	O
ATOM	8951	HG1	THR	H	141	21.716	47.028-108.988	1.00	0.00	H
ATOM	8952	CG2	THR	H	141	22.851	48.815-110.246	1.00	0.00	C
ATOM	8953	1HG2	THR	H	141	22.997	49.669-110.905	1.00	0.00	H
ATOM	8954	2HG2	THR	H	141	23.674	48.115-110.397	1.00	0.00	H
ATOM	8955	3HG2	THR	H	141	22.863	49.161-109.214	1.00	0.00	H

ATOM	8956	N	ASP	H	142	20.470	51.187-109.438	1.00	0.00	N
ATOM	8957	H	ASP	H	142	20.255	50.786-108.536	1.00	0.00	H
ATOM	8958	CA	ASP	H	142	20.690	52.638-109.439	1.00	0.00	C
ATOM	8959	HA	ASP	H	142	19.725	53.124-109.603	1.00	0.00	H
ATOM	8960	C	ASP	H	142	21.676	53.176-110.501	1.00	0.00	C
ATOM	8961	O	ASP	H	142	22.615	52.503-110.937	1.00	0.00	O
ATOM	8962	CB	ASP	H	142	21.156	53.001-108.024	1.00	0.00	C
ATOM	8963	1HB	ASP	H	142	20.350	52.785-107.327	1.00	0.00	H
ATOM	8964	2HB	ASP	H	142	22.011	52.374-107.781	1.00	0.00	H
ATOM	8965	CG	ASP	H	142	21.571	54.460-107.869	1.00	0.00	C
ATOM	8966	OD1	ASP	H	142	20.830	55.338-108.365	1.00	0.00	O
ATOM	8967	OD2	ASP	H	142	22.682	54.714-107.351	1.00	0.00	O
ATOM	8968	N	LYS	H	143	21.471	54.436-110.905	1.00	0.00	N
ATOM	8969	H	LYS	H	143	20.741	54.936-110.400	1.00	0.00	H
ATOM	8970	CA	LYS	H	143	22.320	55.206-111.834	1.00	0.00	C
ATOM	8971	HA	LYS	H	143	23.310	54.752-111.837	1.00	0.00	H
ATOM	8972	C	LYS	H	143	22.531	56.673-111.394	1.00	0.00	C
ATOM	8973	O	LYS	H	143	23.034	57.469-112.184	1.00	0.00	O
ATOM	8974	CB	LYS	H	143	21.702	55.141-113.253	1.00	0.00	C
ATOM	8975	1HB	LYS	H	143	21.004	54.309-113.338	1.00	0.00	H
ATOM	8976	2HB	LYS	H	143	21.108	56.043-113.414	1.00	0.00	H
ATOM	8977	CG	LYS	H	143	22.761	55.044-114.370	1.00	0.00	C
ATOM	8978	1HG	LYS	H	143	22.452	55.700-115.185	1.00	0.00	H
ATOM	8979	2HG	LYS	H	143	23.715	55.424-114.002	1.00	0.00	H
ATOM	8980	CD	LYS	H	143	22.979	53.640-114.968	1.00	0.00	C
ATOM	8981	1HD	LYS	H	143	22.122	53.375-115.590	1.00	0.00	H
ATOM	8982	2HD	LYS	H	143	23.849	53.699-115.625	1.00	0.00	H
ATOM	8983	CE	LYS	H	143	23.236	52.533-113.935	1.00	0.00	C
ATOM	8984	1HE	LYS	H	143	23.945	51.810-114.347	1.00	0.00	H
ATOM	8985	2HE	LYS	H	143	23.696	52.979-113.047	1.00	0.00	H
ATOM	8986	NZ	LYS	H	143	21.989	51.831-113.548	1.00	0.00	N
ATOM	8987	1HZ	LYS	H	143	22.102	51.359-112.647	1.00	0.00	H
ATOM	8988	2HZ	LYS	H	143	21.668	51.154-114.223	1.00	0.00	H
ATOM	8989	3HZ	LYS	H	143	21.241	52.476-113.340	1.00	0.00	H
ATOM	8990	N	PHE	H	144	22.106	57.038-110.183	1.00	0.00	N
ATOM	8991	H	PHE	H	144	21.772	56.307-109.561	1.00	0.00	H
ATOM	8992	CA	PHE	H	144	21.811	58.416-109.768	1.00	0.00	C
ATOM	8993	HA	PHE	H	144	22.420	59.118-110.338	1.00	0.00	H
ATOM	8994	C	PHE	H	144	22.101	58.681-108.276	1.00	0.00	C
ATOM	8995	O	PHE	H	144	22.740	59.684-107.960	1.00	0.00	O
ATOM	8996	CB	PHE	H	144	20.325	58.667-110.105	1.00	0.00	C
ATOM	8997	1HB	PHE	H	144	20.243	58.887-111.169	1.00	0.00	H
ATOM	8998	2HB	PHE	H	144	19.772	57.741-109.930	1.00	0.00	H
ATOM	8999	CG	PHE	H	144	19.619	59.767-109.330	1.00	0.00	C
ATOM	9000	CD1	PHE	H	144	20.125	61.082-109.320	1.00	0.00	C
ATOM	9001	HD1	PHE	H	144	21.030	61.316-109.859	1.00	0.00	H
ATOM	9002	CD2	PHE	H	144	18.444	59.468-108.613	1.00	0.00	C
ATOM	9003	HD2	PHE	H	144	18.029	58.468-108.621	1.00	0.00	H
ATOM	9004	CE1	PHE	H	144	19.468	62.085-108.583	1.00	0.00	C
ATOM	9005	HE1	PHE	H	144	19.866	63.088-108.560	1.00	0.00	H
ATOM	9006	CE2	PHE	H	144	17.786	60.471-107.882	1.00	0.00	C
ATOM	9007	HE2	PHE	H	144	16.881	60.227-107.337	1.00	0.00	H
ATOM	9008	CZ	PHE	H	144	18.299	61.779-107.862	1.00	0.00	C
ATOM	9009	HZ	PHE	H	144	17.793	62.544-107.291	1.00	0.00	H
ATOM	9010	N	GLY	H	145	21.689	57.786-107.374	1.00	0.00	N
ATOM	9011	H	GLY	H	145	21.258	56.931-107.716	1.00	0.00	H
ATOM	9012	CA	GLY	H	145	21.907	57.903-105.928	1.00	0.00	C
ATOM	9013	1HA	GLY	H	145	22.976	57.862-105.727	1.00	0.00	H
ATOM	9014	2HA	GLY	H	145	21.534	58.874-105.601	1.00	0.00	H
ATOM	9015	C	GLY	H	145	21.210	56.831-105.076	1.00	0.00	C
ATOM	9016	O	GLY	H	145	21.790	56.420-104.074	1.00	0.00	O
ATOM	9017	N	GLN	H	146	20.032	56.361-105.499	1.00	0.00	N
ATOM	9018	H	GLN	H	146	19.716	56.706-106.394	1.00	0.00	H
ATOM	9019	CA	GLN	H	146	19.088	55.446-104.820	1.00	0.00	C
ATOM	9020	HA	GLN	H	146	18.803	55.887-103.867	1.00	0.00	H
ATOM	9021	C	GLN	H	146	19.612	54.021-104.505	1.00	0.00	C
ATOM	9022	O	GLN	H	146	20.718	53.675-104.932	1.00	0.00	O
ATOM	9023	CB	GLN	H	146	17.845	55.390-105.729	1.00	0.00	C
ATOM	9024	1HB	GLN	H	146	18.157	55.353-106.776	1.00	0.00	H
ATOM	9025	2HB	GLN	H	146	17.255	54.493-105.548	1.00	0.00	H
ATOM	9026	CG	GLN	H	146	16.956	56.617-105.495	1.00	0.00	C
ATOM	9027	1HG	GLN	H	146	16.560	56.596-104.480	1.00	0.00	H
ATOM	9028	2HG	GLN	H	146	17.534	57.533-105.622	1.00	0.00	H
ATOM	9029	CD	GLN	H	146	15.810	56.633-106.489	1.00	0.00	C
ATOM	9030	OE1	GLN	H	146	15.978	57.094-107.610	1.00	0.00	O
ATOM	9031	NE2	GLN	H	146	14.670	56.106-106.113	1.00	0.00	N
ATOM	9032	1HE2	GLN	H	146	13.891	56.061-106.783	1.00	0.00	H

ATOM	9033	2HE2	GLN	H	146	14.540	55.735-105.180	1.00	0.00	H
ATOM	9034	N	PRO	H	147	18.866	53.153-103.781	1.00	0.00	N
ATOM	9035	CA	PRO	H	147	19.258	51.761-103.519	1.00	0.00	C
ATOM	9036	HA	PRO	H	147	20.112	51.773-102.843	1.00	0.00	H
ATOM	9037	C	PRO	H	147	19.661	50.991-104.783	1.00	0.00	C
ATOM	9038	O	PRO	H	147	19.028	51.074-105.834	1.00	0.00	O
ATOM	9039	CB	PRO	H	147	18.090	51.104-102.778	1.00	0.00	C
ATOM	9040	1HB	PRO	H	147	17.820	50.141-103.214	1.00	0.00	H
ATOM	9041	2HB	PRO	H	147	18.353	50.990-101.726	1.00	0.00	H
ATOM	9042	CG	PRO	H	147	16.941	52.097-102.908	1.00	0.00	C
ATOM	9043	1HG	PRO	H	147	16.389	51.899-103.828	1.00	0.00	H
ATOM	9044	2HG	PRO	H	147	16.281	52.055-102.044	1.00	0.00	H
ATOM	9045	CD	PRO	H	147	17.655	53.439-103.025	1.00	0.00	C
ATOM	9046	1HD	PRO	H	147	17.004	54.173-103.493	1.00	0.00	H
ATOM	9047	2HD	PRO	H	147	17.931	53.787-102.030	1.00	0.00	H
ATOM	9048	N	LYS	H	148	20.754	50.229-104.689	1.00	0.00	N
ATOM	9049	H	LYS	H	148	21.076	49.976-103.760	1.00	0.00	H
ATOM	9050	CA	LYS	H	148	21.553	49.800-105.849	1.00	0.00	C
ATOM	9051	HA	LYS	H	148	21.423	50.542-106.633	1.00	0.00	H
ATOM	9052	C	LYS	H	148	21.055	48.492-106.489	1.00	0.00	C
ATOM	9053	O	LYS	H	148	21.739	47.924-107.340	1.00	0.00	O
ATOM	9054	CB	LYS	H	148	23.051	49.780-105.477	1.00	0.00	C
ATOM	9055	1HB	LYS	H	148	23.180	49.248-104.537	1.00	0.00	H
ATOM	9056	2HB	LYS	H	148	23.590	49.233-106.251	1.00	0.00	H
ATOM	9057	CG	LYS	H	148	23.723	51.165-105.373	1.00	0.00	C
ATOM	9058	1HG	LYS	H	148	24.798	51.025-105.493	1.00	0.00	H
ATOM	9059	2HG	LYS	H	148	23.384	51.795-106.190	1.00	0.00	H
ATOM	9060	CD	LYS	H	148	23.497	51.884-104.034	1.00	0.00	C
ATOM	9061	1HD	LYS	H	148	22.434	51.980-103.829	1.00	0.00	H
ATOM	9062	2HD	LYS	H	148	23.937	51.281-103.239	1.00	0.00	H
ATOM	9063	CE	LYS	H	148	24.134	53.281-103.996	1.00	0.00	C
ATOM	9064	1HE	LYS	H	148	24.157	53.601-102.950	1.00	0.00	H
ATOM	9065	2HE	LYS	H	148	25.162	53.230-104.361	1.00	0.00	H
ATOM	9066	NZ	LYS	H	148	23.351	54.273-104.769	1.00	0.00	N
ATOM	9067	1HZ	LYS	H	148	22.353	54.152-104.607	1.00	0.00	H
ATOM	9068	2HZ	LYS	H	148	23.426	54.209-105.787	1.00	0.00	H
ATOM	9069	3HZ	LYS	H	148	23.508	55.230-104.481	1.00	0.00	H
ATOM	9070	N	GLY	H	149	19.829	48.071-106.183	1.00	0.00	N
ATOM	9071	H	GLY	H	149	19.316	48.601-105.497	1.00	0.00	H
ATOM	9072	CA	GLY	H	149	19.217	46.872-106.757	1.00	0.00	C
ATOM	9073	1HA	GLY	H	149	19.348	46.885-107.839	1.00	0.00	H
ATOM	9074	2HA	GLY	H	149	19.732	45.995-106.363	1.00	0.00	H
ATOM	9075	C	GLY	H	149	17.722	46.709-106.481	1.00	0.00	C
ATOM	9076	O	GLY	H	149	17.290	45.583-106.258	1.00	0.00	O
ATOM	9077	N	PHE	H	150	16.934	47.794-106.430	1.00	0.00	N
ATOM	9078	H	PHE	H	150	17.298	48.695-106.703	1.00	0.00	H
ATOM	9079	CA	PHE	H	150	15.478	47.654-106.274	1.00	0.00	C
ATOM	9080	HA	PHE	H	150	15.310	47.055-105.379	1.00	0.00	H
ATOM	9081	C	PHE	H	150	14.870	46.852-107.445	1.00	0.00	C
ATOM	9082	O	PHE	H	150	15.379	46.897-108.568	1.00	0.00	O
ATOM	9083	CB	PHE	H	150	14.814	49.016-106.006	1.00	0.00	C
ATOM	9084	1HB	PHE	H	150	13.792	48.836-105.675	1.00	0.00	H
ATOM	9085	2HB	PHE	H	150	15.325	49.487-105.165	1.00	0.00	H
ATOM	9086	CG	PHE	H	150	14.730	50.011-107.147	1.00	0.00	C
ATOM	9087	CD1	PHE	H	150	15.597	51.121-107.192	1.00	0.00	C
ATOM	9088	HD1	PHE	H	150	16.386	51.228-106.463	1.00	0.00	H
ATOM	9089	CD2	PHE	H	150	13.682	49.906-108.081	1.00	0.00	C
ATOM	9090	HD2	PHE	H	150	12.997	49.071-108.032	1.00	0.00	H
ATOM	9091	CE1	PHE	H	150	15.402	52.126-108.157	1.00	0.00	C
ATOM	9092	HE1	PHE	H	150	16.044	52.995-108.170	1.00	0.00	H
ATOM	9093	CE2	PHE	H	150	13.486	50.911-109.042	1.00	0.00	C
ATOM	9094	HE2	PHE	H	150	12.659	50.840-109.734	1.00	0.00	H
ATOM	9095	CZ	PHE	H	150	14.343	52.025-109.076	1.00	0.00	C
ATOM	9096	HZ	PHE	H	150	14.173	52.819-109.790	1.00	0.00	H
ATOM	9097	N	ALA	H	151	13.850	46.034-107.174	1.00	0.00	N
ATOM	9098	H	ALA	H	151	13.397	46.113-106.269	1.00	0.00	H
ATOM	9099	CA	ALA	H	151	13.510	44.880-108.019	1.00	0.00	C
ATOM	9100	HA	ALA	H	151	13.726	45.116-109.060	1.00	0.00	H
ATOM	9101	C	ALA	H	151	12.026	44.479-107.952	1.00	0.00	C
ATOM	9102	O	ALA	H	151	11.259	45.029-107.165	1.00	0.00	O
ATOM	9103	CB	ALA	H	151	14.404	43.704-107.580	1.00	0.00	C
ATOM	9104	1HB	ALA	H	151	14.267	42.851-108.245	1.00	0.00	H
ATOM	9105	2HB	ALA	H	151	14.152	43.402-106.564	1.00	0.00	H
ATOM	9106	3HB	ALA	H	151	15.452	43.997-107.606	1.00	0.00	H
ATOM	9107	N	TYR	H	152	11.635	43.476-108.743	1.00	0.00	N
ATOM	9108	H	TYR	H	152	12.317	43.071-109.377	1.00	0.00	H
ATOM	9109	CA	TYR	H	152	10.313	42.842-108.690	1.00	0.00	C



ATOM	9110	HA	TYR	H	152	9.913	42.982-107.688	1.00	0.00	H
ATOM	9111	C	TYR	H	152	10.407	41.321-108.927	1.00	0.00	C
ATOM	9112	O	TYR	H	152	11.370	40.849-109.540	1.00	0.00	O
ATOM	9113	CB	TYR	H	152	9.356	43.534-109.692	1.00	0.00	C
ATOM	9114	1HB	TYR	H	152	8.492	43.903-109.140	1.00	0.00	H
ATOM	9115	2HB	TYR	H	152	9.839	44.413-110.124	1.00	0.00	H
ATOM	9116	CG	TYR	H	152	8.869	42.651-110.829	1.00	0.00	C
ATOM	9117	CD1	TYR	H	152	7.560	42.132-110.818	1.00	0.00	C
ATOM	9118	HD1	TYR	H	152	6.877	42.415-110.028	1.00	0.00	H
ATOM	9119	CD2	TYR	H	152	9.764	42.271-111.846	1.00	0.00	C
ATOM	9120	HD2	TYR	H	152	10.775	42.646-111.822	1.00	0.00	H
ATOM	9121	CE1	TYR	H	152	7.146	41.237-111.824	1.00	0.00	C
ATOM	9122	HE1	TYR	H	152	6.139	40.852-111.820	1.00	0.00	H
ATOM	9123	CE2	TYR	H	152	9.362	41.360-112.841	1.00	0.00	C
ATOM	9124	HE2	TYR	H	152	10.051	41.039-113.607	1.00	0.00	H
ATOM	9125	CZ	TYR	H	152	8.051	40.843-112.834	1.00	0.00	C
ATOM	9126	OH	TYR	H	152	7.668	39.958-113.792	1.00	0.00	O
ATOM	9127	HH	TYR	H	152	6.739	39.731-113.709	1.00	0.00	H
ATOM	9128	N	VAL	H	153	9.391	40.571-108.481	1.00	0.00	N
ATOM	9129	H	VAL	H	153	8.621	41.060-108.032	1.00	0.00	H
ATOM	9130	CA	VAL	H	153	9.198	39.127-108.743	1.00	0.00	C
ATOM	9131	HA	VAL	H	153	9.661	38.897-109.700	1.00	0.00	H
ATOM	9132	C	VAL	H	153	7.705	38.765-108.871	1.00	0.00	C
ATOM	9133	O	VAL	H	153	6.843	39.579-108.536	1.00	0.00	O
ATOM	9134	CB	VAL	H	153	9.858	38.241-107.657	1.00	0.00	C
ATOM	9135	HB	VAL	H	153	9.669	37.202-107.918	1.00	0.00	H
ATOM	9136	CG1	VAL	H	153	11.376	38.396-107.558	1.00	0.00	C
ATOM	9137	1HG1	VAL	H	153	11.641	39.393-107.209	1.00	0.00	H
ATOM	9138	2HG1	VAL	H	153	11.802	38.231-108.541	1.00	0.00	H
ATOM	9139	3HG1	VAL	H	153	11.784	37.653-106.873	1.00	0.00	H
ATOM	9140	CG2	VAL	H	153	9.288	38.480-106.259	1.00	0.00	C
ATOM	9141	1HG2	VAL	H	153	9.466	39.512-105.957	1.00	0.00	H
ATOM	9142	2HG2	VAL	H	153	9.765	37.819-105.540	1.00	0.00	H
ATOM	9143	3HG2	VAL	H	153	8.223	38.264-106.260	1.00	0.00	H
ATOM	9144	N	GLU	H	154	7.371	37.540-109.309	1.00	0.00	N
ATOM	9145	H	GLU	H	154	8.112	36.902-109.565	1.00	0.00	H
ATOM	9146	CA	GLU	H	154	5.972	37.062-109.415	1.00	0.00	C
ATOM	9147	HA	GLU	H	154	5.395	37.579-108.650	1.00	0.00	H
ATOM	9148	C	GLU	H	154	5.775	35.555-109.143	1.00	0.00	C
ATOM	9149	O	GLU	H	154	6.736	34.779-109.189	1.00	0.00	O
ATOM	9150	CB	GLU	H	154	5.383	37.465-110.790	1.00	0.00	C
ATOM	9151	1HB	GLU	H	154	4.306	37.585-110.689	1.00	0.00	H
ATOM	9152	2HB	GLU	H	154	5.769	38.452-111.047	1.00	0.00	H
ATOM	9153	CG	GLU	H	154	5.669	36.521-111.979	1.00	0.00	C
ATOM	9154	1HG	GLU	H	154	5.620	37.113-112.896	1.00	0.00	H
ATOM	9155	2HG	GLU	H	154	6.690	36.138-111.898	1.00	0.00	H
ATOM	9156	CD	GLU	H	154	4.663	35.358-112.112	1.00	0.00	C
ATOM	9157	OE1	GLU	H	154	5.107	34.192-112.243	1.00	0.00	O
ATOM	9158	OE2	GLU	H	154	3.441	35.603-112.064	1.00	0.00	O
ATOM	9159	N	PHE	H	155	4.518	35.134-108.931	1.00	0.00	N
ATOM	9160	H	PHE	H	155	3.792	35.844-108.863	1.00	0.00	H
ATOM	9161	CA	PHE	H	155	4.066	33.756-109.173	1.00	0.00	C
ATOM	9162	HA	PHE	H	155	4.696	33.348-109.964	1.00	0.00	H
ATOM	9163	C	PHE	H	155	2.604	33.684-109.659	1.00	0.00	C
ATOM	9164	O	PHE	H	155	1.673	34.178-109.013	1.00	0.00	O
ATOM	9165	CB	PHE	H	155	4.256	32.864-107.938	1.00	0.00	C
ATOM	9166	1HB	PHE	H	155	5.181	33.141-107.436	1.00	0.00	H
ATOM	9167	2HB	PHE	H	155	3.444	33.038-107.229	1.00	0.00	H
ATOM	9168	CG	PHE	H	155	4.323	31.385-108.293	1.00	0.00	C
ATOM	9169	CD1	PHE	H	155	5.557	30.800-108.625	1.00	0.00	C
ATOM	9170	HD1	PHE	H	155	6.438	31.411-108.632	1.00	0.00	H
ATOM	9171	CD2	PHE	H	155	3.162	30.595-108.339	1.00	0.00	C
ATOM	9172	HD2	PHE	H	155	2.211	31.043-108.099	1.00	0.00	H
ATOM	9173	CE1	PHE	H	155	5.646	29.442-108.974	1.00	0.00	C
ATOM	9174	HE1	PHE	H	155	6.603	29.013-109.241	1.00	0.00	H
ATOM	9175	CE2	PHE	H	155	3.243	29.230-108.676	1.00	0.00	C
ATOM	9176	HE2	PHE	H	155	2.354	28.619-108.692	1.00	0.00	H
ATOM	9177	CZ	PHE	H	155	4.485	28.652-108.992	1.00	0.00	C
ATOM	9178	HZ	PHE	H	155	4.546	27.607-109.260	1.00	0.00	H
ATOM	9179	N	VAL	H	156	2.399	32.981-110.776	1.00	0.00	N
ATOM	9180	H	VAL	H	156	3.234	32.795-111.319	1.00	0.00	H
ATOM	9181	CA	VAL	H	156	1.113	32.861-111.487	1.00	0.00	C
ATOM	9182	HA	VAL	H	156	0.867	33.859-111.852	1.00	0.00	H
ATOM	9183	C	VAL	H	156	-0.069	32.399-110.616	1.00	0.00	C
ATOM	9184	O	VAL	H	156	-1.161	32.935-110.773	1.00	0.00	O
ATOM	9185	CB	VAL	H	156	1.262	31.948-112.725	1.00	0.00	C
ATOM	9186	HB	VAL	H	156	1.441	30.925-112.392	1.00	0.00	H

ATOM	9187	CG1	VAL	H	156	0.002	31.956-113.603	1.00	0.00	C
ATOM	9188	1HG1	VAL	H	156	-0.849	31.557-113.052	1.00	0.00	H
ATOM	9189	2HG1	VAL	H	156	0.157	31.334-114.484	1.00	0.00	H
ATOM	9190	3HG1	VAL	H	156	-0.222	32.976-113.920	1.00	0.00	H
ATOM	9191	CG2	VAL	H	156	2.437	32.373-113.620	1.00	0.00	C
ATOM	9192	1HG2	VAL	H	156	2.347	33.431-113.876	1.00	0.00	H
ATOM	9193	2HG2	VAL	H	156	2.453	31.781-114.534	1.00	0.00	H
ATOM	9194	3HG2	VAL	H	156	3.386	32.223-113.106	1.00	0.00	H
ATOM	9195	N	GLU	H	157	0.111	31.462-109.680	1.00	0.00	N
ATOM	9196	H	GLU	H	157	1.041	31.102-109.551	1.00	0.00	H
ATOM	9197	CA	GLU	H	157	-0.960	31.007-108.762	1.00	0.00	C
ATOM	9198	HA	GLU	H	157	-1.916	31.111-109.280	1.00	0.00	H
ATOM	9199	C	GLU	H	157	-1.083	31.855-107.480	1.00	0.00	C
ATOM	9200	O	GLU	H	157	-0.113	32.431-106.984	1.00	0.00	O
ATOM	9201	CB	GLU	H	157	-0.783	29.516-108.405	1.00	0.00	C
ATOM	9202	1HB	GLU	H	157	0.226	29.203-108.667	1.00	0.00	H
ATOM	9203	2HB	GLU	H	157	-0.894	29.366-107.329	1.00	0.00	H
ATOM	9204	CG	GLU	H	157	-1.779	28.598-109.136	1.00	0.00	C
ATOM	9205	1HG	GLU	H	157	-1.765	28.838-110.202	1.00	0.00	H
ATOM	9206	2HG	GLU	H	157	-1.422	27.571-109.026	1.00	0.00	H
ATOM	9207	CD	GLU	H	157	-3.224	28.680-108.604	1.00	0.00	C
ATOM	9208	OE1	GLU	H	157	-3.976	27.709-108.837	1.00	0.00	O
ATOM	9209	OE2	GLU	H	157	-3.568	29.700-107.960	1.00	0.00	O
ATOM	9210	N	ILE	H	158	-2.299	31.923-106.935	1.00	0.00	N
ATOM	9211	H	ILE	H	158	-3.010	31.303-107.331	1.00	0.00	H
ATOM	9212	CA	ILE	H	158	-2.719	32.888-105.911	1.00	0.00	C
ATOM	9213	HA	ILE	H	158	-2.349	33.873-106.186	1.00	0.00	H
ATOM	9214	C	ILE	H	158	-2.102	32.573-104.545	1.00	0.00	C
ATOM	9215	O	ILE	H	158	-1.476	33.448-103.950	1.00	0.00	O
ATOM	9216	CB	ILE	H	158	-4.268	32.973-105.867	1.00	0.00	C
ATOM	9217	HB	ILE	H	158	-4.679	31.962-105.892	1.00	0.00	H
ATOM	9218	CG1	ILE	H	158	-4.860	33.780-107.052	1.00	0.00	C
ATOM	9219	1HG1	ILE	H	158	-5.941	33.835-106.921	1.00	0.00	H
ATOM	9220	2HG1	ILE	H	158	-4.473	34.800-107.019	1.00	0.00	H
ATOM	9221	CG2	ILE	H	158	-4.777	33.654-104.580	1.00	0.00	C
ATOM	9222	1HG2	ILE	H	158	-4.538	33.052-103.703	1.00	0.00	H
ATOM	9223	2HG2	ILE	H	158	-5.861	33.763-104.614	1.00	0.00	H
ATOM	9224	3HG2	ILE	H	158	-4.323	34.640-104.469	1.00	0.00	H
ATOM	9225	CD1	ILE	H	158	-4.613	33.218-108.458	1.00	0.00	C
ATOM	9226	1HD1	ILE	H	158	-3.568	33.339-108.741	1.00	0.00	H
ATOM	9227	2HD1	ILE	H	158	-5.223	33.766-109.175	1.00	0.00	H
ATOM	9228	3HD1	ILE	H	158	-4.887	32.163-108.492	1.00	0.00	H
ATOM	9229	N	ASP	H	159	-2.237	31.340-104.043	1.00	0.00	N
ATOM	9230	H	ASP	H	159	-2.750	30.649-104.571	1.00	0.00	H
ATOM	9231	CA	ASP	H	159	-1.735	31.002-102.700	1.00	0.00	C
ATOM	9232	HA	ASP	H	159	-2.113	31.755-102.012	1.00	0.00	H
ATOM	9233	C	ASP	H	159	-0.195	31.025-102.621	1.00	0.00	C
ATOM	9234	O	ASP	H	159	0.394	31.350-101.592	1.00	0.00	O
ATOM	9235	CB	ASP	H	159	-2.296	29.650-102.241	1.00	0.00	C
ATOM	9236	1HB	ASP	H	159	-3.376	29.642-102.396	1.00	0.00	H
ATOM	9237	2HB	ASP	H	159	-1.857	28.854-102.846	1.00	0.00	H
ATOM	9238	CG	ASP	H	159	-2.022	29.393-100.752	1.00	0.00	C
ATOM	9239	OD1	ASP	H	159	-1.669	28.242-100.422	1.00	0.00	O
ATOM	9240	OD2	ASP	H	159	-2.195	30.342 -99.952	1.00	0.00	O
ATOM	9241	N	ALA	H	160	0.476	30.756-103.743	1.00	0.00	N
ATOM	9242	H	ALA	H	160	-0.057	30.563-104.575	1.00	0.00	H
ATOM	9243	CA	ALA	H	160	1.925	30.869-103.854	1.00	0.00	C
ATOM	9244	HA	ALA	H	160	2.394	30.201-103.131	1.00	0.00	H
ATOM	9245	C	ALA	H	160	2.419	32.294-103.555	1.00	0.00	C
ATOM	9246	O	ALA	H	160	3.205	32.478-102.625	1.00	0.00	O
ATOM	9247	CB	ALA	H	160	2.315	30.429-105.260	1.00	0.00	C
ATOM	9248	1HB	ALA	H	160	3.360	30.681-105.434	1.00	0.00	H
ATOM	9249	2HB	ALA	H	160	1.704	30.961-105.983	1.00	0.00	H
ATOM	9250	3HB	ALA	H	160	2.162	29.356-105.375	1.00	0.00	H
ATOM	9251	N	VAL	H	161	1.921	33.305-104.284	1.00	0.00	N
ATOM	9252	H	VAL	H	161	1.265	33.099-105.029	1.00	0.00	H
ATOM	9253	CA	VAL	H	161	2.274	34.707-104.003	1.00	0.00	C
ATOM	9254	HA	VAL	H	161	3.360	34.747-103.939	1.00	0.00	H
ATOM	9255	C	VAL	H	161	1.754	35.167-102.636	1.00	0.00	C
ATOM	9256	O	VAL	H	161	2.473	35.874-101.941	1.00	0.00	O
ATOM	9257	CB	VAL	H	161	1.887	35.659-105.154	1.00	0.00	C
ATOM	9258	HB	VAL	H	161	2.293	35.244-106.077	1.00	0.00	H
ATOM	9259	CG1	VAL	H	161	0.377	35.818-105.344	1.00	0.00	C
ATOM	9260	1HG1	VAL	H	161	-0.080	36.249-104.454	1.00	0.00	H
ATOM	9261	2HG1	VAL	H	161	-0.062	34.845-105.550	1.00	0.00	H
ATOM	9262	3HG1	VAL	H	161	0.195	36.486-106.186	1.00	0.00	H
ATOM	9263	CG2	VAL	H	161	2.514	37.045-104.965	1.00	0.00	C

ATOM	9264	1HG2	VAL	H	161	2.115	37.533-104.076	1.00	0.00	H
ATOM	9265	2HG2	VAL	H	161	2.295	37.671-105.829	1.00	0.00	H
ATOM	9266	3HG2	VAL	H	161	3.596	36.954-104.869	1.00	0.00	H
ATOM	9267	N	GLN	H	162	0.581	34.699-102.188	1.00	0.00	N
ATOM	9268	H	GLN	H	162	0.022	34.126-102.812	1.00	0.00	H
ATOM	9269	CA	GLN	H	162	0.033	34.976-100.848	1.00	0.00	C
ATOM	9270	HA	GLN	H	162	-0.138	36.049-100.764	1.00	0.00	H
ATOM	9271	C	GLN	H	162	0.986	34.585 -99.701	1.00	0.00	C
ATOM	9272	O	GLN	H	162	1.006	35.254 -98.671	1.00	0.00	O
ATOM	9273	CB	GLN	H	162	-1.324	34.264-100.720	1.00	0.00	C
ATOM	9274	1HB	GLN	H	162	-1.970	34.601-101.532	1.00	0.00	H
ATOM	9275	2HB	GLN	H	162	-1.161	33.197-100.822	1.00	0.00	H
ATOM	9276	CG	GLN	H	162	-2.057	34.493 -99.391	1.00	0.00	C
ATOM	9277	1HG	GLN	H	162	-1.511	34.005 -98.583	1.00	0.00	H
ATOM	9278	2HG	GLN	H	162	-2.106	35.562 -99.186	1.00	0.00	H
ATOM	9279	CD	GLN	H	162	-3.478	33.934 -99.429	1.00	0.00	C
ATOM	9280	OE1	GLN	H	162	-4.457	34.662 -99.418	1.00	0.00	O
ATOM	9281	NE2	GLN	H	162	-3.679	32.636 -99.491	1.00	0.00	N
ATOM	9282	1HE2	GLN	H	162	-4.628	32.331 -99.522	1.00	0.00	H
ATOM	9283	2HE2	GLN	H	162	-2.915	31.950 -99.545	1.00	0.00	H
ATOM	9284	N	ASN	H	163	1.805	33.544 -99.885	1.00	0.00	N
ATOM	9285	H	ASN	H	163	1.703	33.005-100.737	1.00	0.00	H
ATOM	9286	CA	ASN	H	163	2.857	33.168 -98.937	1.00	0.00	C
ATOM	9287	HA	ASN	H	163	2.579	33.486 -97.930	1.00	0.00	H
ATOM	9288	C	ASN	H	163	4.198	33.859 -99.264	1.00	0.00	C
ATOM	9289	O	ASN	H	163	4.853	34.392 -98.368	1.00	0.00	O
ATOM	9290	CB	ASN	H	163	2.985	31.633 -98.933	1.00	0.00	C
ATOM	9291	1HB	ASN	H	163	3.051	31.256 -99.953	1.00	0.00	H
ATOM	9292	2HB	ASN	H	163	3.898	31.355 -98.407	1.00	0.00	H
ATOM	9293	CG	ASN	H	163	1.829	30.954 -98.212	1.00	0.00	C
ATOM	9294	OD1	ASN	H	163	1.889	30.697 -97.021	1.00	0.00	O
ATOM	9295	ND2	ASN	H	163	0.762	30.633 -98.903	1.00	0.00	N
ATOM	9296	1HD2	ASN	H	163	-0.019	30.192 -98.446	1.00	0.00	H
ATOM	9297	2HD2	ASN	H	163	0.672	30.876 -99.883	1.00	0.00	H
ATOM	9298	N	ALA	H	164	4.607	33.906-100.538	1.00	0.00	N
ATOM	9299	H	ALA	H	164	4.029	33.473-101.250	1.00	0.00	H
ATOM	9300	CA	ALA	H	164	5.871	34.522-100.962	1.00	0.00	C
ATOM	9301	HA	ALA	H	164	6.678	34.058-100.393	1.00	0.00	H
ATOM	9302	C	ALA	H	164	5.954	36.042-100.692	1.00	0.00	C
ATOM	9303	O	ALA	H	164	7.055	36.567-100.522	1.00	0.00	O
ATOM	9304	CB	ALA	H	164	6.105	34.210-102.445	1.00	0.00	C
ATOM	9305	1HB	ALA	H	164	7.106	34.537-102.732	1.00	0.00	H
ATOM	9306	2HB	ALA	H	164	5.375	34.736-103.057	1.00	0.00	H
ATOM	9307	3HB	ALA	H	164	6.023	33.138-102.625	1.00	0.00	H
ATOM	9308	N	LEU	H	165	4.815	36.745-100.612	1.00	0.00	N
ATOM	9309	H	LEU	H	165	3.947	36.276-100.849	1.00	0.00	H
ATOM	9310	CA	LEU	H	165	4.740	38.163-100.232	1.00	0.00	C
ATOM	9311	HA	LEU	H	165	5.574	38.669-100.718	1.00	0.00	H
ATOM	9312	C	LEU	H	165	4.908	38.418 -98.724	1.00	0.00	C
ATOM	9313	O	LEU	H	165	5.094	39.572 -98.349	1.00	0.00	O
ATOM	9314	CB	LEU	H	165	3.453	38.807-100.803	1.00	0.00	C
ATOM	9315	1HB	LEU	H	165	3.586	39.890-100.802	1.00	0.00	H
ATOM	9316	2HB	LEU	H	165	3.384	38.502-101.849	1.00	0.00	H
ATOM	9317	CG	LEU	H	165	2.107	38.492-100.109	1.00	0.00	C
ATOM	9318	HG	LEU	H	165	2.095	37.452 -99.789	1.00	0.00	H
ATOM	9319	CD1	LEU	H	165	1.798	39.396 -98.909	1.00	0.00	C
ATOM	9320	1HD1	LEU	H	165	2.535	39.272 -98.122	1.00	0.00	H
ATOM	9321	2HD1	LEU	H	165	0.825	39.136 -98.494	1.00	0.00	H
ATOM	9322	3HD1	LEU	H	165	1.792	40.442 -99.216	1.00	0.00	H
ATOM	9323	CD2	LEU	H	165	0.954	38.725-101.092	1.00	0.00	C
ATOM	9324	1HD2	LEU	H	165	0.950	39.763-101.425	1.00	0.00	H
ATOM	9325	2HD2	LEU	H	165	0.004	38.496-100.610	1.00	0.00	H
ATOM	9326	3HD2	LEU	H	165	1.066	38.076-101.958	1.00	0.00	H
ATOM	9327	N	LEU	H	166	4.875	37.378 -97.879	1.00	0.00	N
ATOM	9328	H	LEU	H	166	4.775	36.455 -98.284	1.00	0.00	H
ATOM	9329	CA	LEU	H	166	4.594	37.489 -96.437	1.00	0.00	C
ATOM	9330	HA	LEU	H	166	4.544	38.546 -96.173	1.00	0.00	H
ATOM	9331	C	LEU	H	166	5.668	36.854 -95.524	1.00	0.00	C
ATOM	9332	O	LEU	H	166	5.556	36.902 -94.303	1.00	0.00	O
ATOM	9333	CB	LEU	H	166	3.200	36.849 -96.230	1.00	0.00	C
ATOM	9334	1HB	LEU	H	166	2.526	37.237 -96.993	1.00	0.00	H
ATOM	9335	2HB	LEU	H	166	3.289	35.775 -96.403	1.00	0.00	H
ATOM	9336	CG	LEU	H	166	2.517	37.059 -94.864	1.00	0.00	C
ATOM	9337	HG	LEU	H	166	3.080	36.555 -94.081	1.00	0.00	H
ATOM	9338	CD1	LEU	H	166	2.363	38.537 -94.502	1.00	0.00	C
ATOM	9339	1HD1	LEU	H	166	3.345	38.980 -94.337	1.00	0.00	H
ATOM	9340	2HD1	LEU	H	166	1.790	38.636 -93.580	1.00	0.00	H

ATOM	9341	3HD1	LEU	H	166	1.855	39.071	-95.305	1.00	0.00	H
ATOM	9342	CD2	LEU	H	166	1.121	36.433	-94.905	1.00	0.00	C
ATOM	9343	1HD2	LEU	H	166	0.642	36.537	-93.932	1.00	0.00	H
ATOM	9344	2HD2	LEU	H	166	1.203	35.374	-95.150	1.00	0.00	H
ATOM	9345	3HD2	LEU	H	166	0.513	36.926	-95.664	1.00	0.00	H
ATOM	9346	N	LEU	H	167	6.709	36.243	-96.099	1.00	0.00	N
ATOM	9347	H	LEU	H	167	6.734	36.255	-97.107	1.00	0.00	H
ATOM	9348	CA	LEU	H	167	7.671	35.373	-95.396	1.00	0.00	C
ATOM	9349	HA	LEU	H	167	7.582	35.530	-94.321	1.00	0.00	H
ATOM	9350	C	LEU	H	167	9.134	35.722	-95.758	1.00	0.00	C
ATOM	9351	O	LEU	H	167	9.970	34.840	-95.954	1.00	0.00	O
ATOM	9352	CB	LEU	H	167	7.319	33.901	-95.712	1.00	0.00	C
ATOM	9353	1HB	LEU	H	167	7.415	33.758	-96.789	1.00	0.00	H
ATOM	9354	2HB	LEU	H	167	8.050	33.259	-95.220	1.00	0.00	H
ATOM	9355	CG	LEU	H	167	5.916	33.425	-95.283	1.00	0.00	C
ATOM	9356	HG	LEU	H	167	5.151	34.074	-95.705	1.00	0.00	H
ATOM	9357	CD1	LEU	H	167	5.677	32.008	-95.807	1.00	0.00	C
ATOM	9358	1HD1	LEU	H	167	4.668	31.685	-95.554	1.00	0.00	H
ATOM	9359	2HD1	LEU	H	167	6.403	31.317	-95.381	1.00	0.00	H
ATOM	9360	3HD1	LEU	H	167	5.779	32.002	-96.892	1.00	0.00	H
ATOM	9361	CD2	LEU	H	167	5.752	33.397	-93.761	1.00	0.00	C
ATOM	9362	1HD2	LEU	H	167	4.764	33.016	-93.509	1.00	0.00	H
ATOM	9363	2HD2	LEU	H	167	5.838	34.408	-93.364	1.00	0.00	H
ATOM	9364	3HD2	LEU	H	167	6.516	32.763	-93.313	1.00	0.00	H
ATOM	9365	N	ASN	H	168	9.415	37.013	-95.952	1.00	0.00	N
ATOM	9366	H	ASN	H	168	8.667	37.668	-95.760	1.00	0.00	H
ATOM	9367	CA	ASN	H	168	10.446	37.485	-96.888	1.00	0.00	C
ATOM	9368	HA	ASN	H	168	11.198	36.708	-97.033	1.00	0.00	H
ATOM	9369	C	ASN	H	168	11.211	38.768	-96.483	1.00	0.00	C
ATOM	9370	O	ASN	H	168	12.340	38.968	-96.921	1.00	0.00	O
ATOM	9371	CB	ASN	H	168	9.713	37.725	-98.228	1.00	0.00	C
ATOM	9372	1HB	ASN	H	168	10.418	38.117	-98.955	1.00	0.00	H
ATOM	9373	2HB	ASN	H	168	9.331	36.778	-98.609	1.00	0.00	H
ATOM	9374	CG	ASN	H	168	8.549	38.709	-98.136	1.00	0.00	C
ATOM	9375	OD1	ASN	H	168	8.203	39.236	-97.095	1.00	0.00	O
ATOM	9376	ND2	ASN	H	168	7.860	38.958	-99.212	1.00	0.00	N
ATOM	9377	1HD2	ASN	H	168	7.044	39.537	-99.050	1.00	0.00	H
ATOM	9378	2HD2	ASN	H	168	7.941	38.346	-100.013	1.00	0.00	H
ATOM	9379	N	GLU	H	169	10.616	39.665	-95.696	1.00	0.00	N
ATOM	9380	H	GLU	H	169	9.673	39.453	-95.399	1.00	0.00	H
ATOM	9381	CA	GLU	H	169	10.963	41.096	-95.715	1.00	0.00	C
ATOM	9382	HA	GLU	H	169	11.357	41.325	-96.706	1.00	0.00	H
ATOM	9383	C	GLU	H	169	12.065	41.542	-94.733	1.00	0.00	C
ATOM	9384	O	GLU	H	169	12.060	42.695	-94.305	1.00	0.00	O
ATOM	9385	CB	GLU	H	169	9.676	41.927	-95.552	1.00	0.00	C
ATOM	9386	1HB	GLU	H	169	9.919	42.978	-95.702	1.00	0.00	H
ATOM	9387	2HB	GLU	H	169	8.974	41.658	-96.341	1.00	0.00	H
ATOM	9388	CG	GLU	H	169	8.986	41.755	-94.188	1.00	0.00	C
ATOM	9389	1HG	GLU	H	169	8.496	40.779	-94.147	1.00	0.00	H
ATOM	9390	2HG	GLU	H	169	9.725	41.795	-93.385	1.00	0.00	H
ATOM	9391	CD	GLU	H	169	7.960	42.869	-93.978	1.00	0.00	C
ATOM	9392	OE1	GLU	H	169	6.950	42.891	-94.711	1.00	0.00	O
ATOM	9393	OE2	GLU	H	169	8.210	43.778	-93.152	1.00	0.00	O
ATOM	9394	N	THR	H	170	12.992	40.662	-94.346	1.00	0.00	N
ATOM	9395	H	THR	H	170	12.922	39.723	-94.708	1.00	0.00	H
ATOM	9396	CA	THR	H	170	13.959	40.963	-93.264	1.00	0.00	C
ATOM	9397	HA	THR	H	170	14.022	42.044	-93.143	1.00	0.00	H
ATOM	9398	C	THR	H	170	15.401	40.509	-93.549	1.00	0.00	C
ATOM	9399	O	THR	H	170	16.317	41.016	-92.908	1.00	0.00	O
ATOM	9400	CB	THR	H	170	13.465	40.396	-91.911	1.00	0.00	C
ATOM	9401	HB	THR	H	170	13.671	39.325	-91.893	1.00	0.00	H
ATOM	9402	OG1	THR	H	170	12.073	40.564	-91.739	1.00	0.00	O
ATOM	9403	HG1	THR	H	170	11.908	41.438	-91.330	1.00	0.00	H
ATOM	9404	CG2	THR	H	170	14.112	41.041	-90.685	1.00	0.00	C
ATOM	9405	1HG2	THR	H	170	15.170	40.790	-90.640	1.00	0.00	H
ATOM	9406	2HG2	THR	H	170	13.632	40.673	-89.778	1.00	0.00	H
ATOM	9407	3HG2	THR	H	170	13.999	42.125	-90.728	1.00	0.00	H
ATOM	9408	N	GLU	H	171	15.651	39.619	-94.522	1.00	0.00	N
ATOM	9409	H	GLU	H	171	14.894	39.268	-95.087	1.00	0.00	H
ATOM	9410	CA	GLU	H	171	17.012	39.132	-94.829	1.00	0.00	C
ATOM	9411	HA	GLU	H	171	17.724	39.927	-94.599	1.00	0.00	H
ATOM	9412	C	GLU	H	171	17.183	38.776	-96.319	1.00	0.00	C
ATOM	9413	O	GLU	H	171	16.518	37.876	-96.845	1.00	0.00	O
ATOM	9414	CB	GLU	H	171	17.354	37.925	-93.925	1.00	0.00	C
ATOM	9415	1HB	GLU	H	171	16.789	38.012	-92.995	1.00	0.00	H
ATOM	9416	2HB	GLU	H	171	17.045	36.994	-94.402	1.00	0.00	H
ATOM	9417	CG	GLU	H	171	18.837	37.837	-93.528	1.00	0.00	C

ATOM	9418	1HG	GLU	H	171	19.119	38.761	-93.017	1.00	0.00	H
ATOM	9419	2HG	GLU	H	171	18.950	37.024	-92.807	1.00	0.00	H
ATOM	9420	CD	GLU	H	171	19.779	37.596	-94.713	1.00	0.00	C
ATOM	9421	OE1	GLU	H	171	20.066	36.421	-95.022	1.00	0.00	O
ATOM	9422	OE2	GLU	H	171	20.236	38.596	-95.310	1.00	0.00	O
ATOM	9423	N	LEU	H	172	18.102	39.474	-96.988	1.00	0.00	N
ATOM	9424	H	LEU	H	172	18.632	40.170	-96.467	1.00	0.00	H
ATOM	9425	CA	LEU	H	172	18.545	39.216	-98.355	1.00	0.00	C
ATOM	9426	HA	LEU	H	172	18.336	38.180	-98.603	1.00	0.00	H
ATOM	9427	C	LEU	H	172	20.058	39.471	-98.462	1.00	0.00	C
ATOM	9428	O	LEU	H	172	20.522	40.565	-98.134	1.00	0.00	O
ATOM	9429	CB	LEU	H	172	17.760	40.142	-99.306	1.00	0.00	C
ATOM	9430	1HB	LEU	H	172	16.814	40.402	-98.833	1.00	0.00	H
ATOM	9431	2HB	LEU	H	172	18.316	41.071	-99.427	1.00	0.00	H
ATOM	9432	CG	LEU	H	172	17.438	39.581	-100.704	1.00	0.00	C
ATOM	9433	HG	LEU	H	172	17.193	40.419	-101.355	1.00	0.00	H
ATOM	9434	CD1	LEU	H	172	18.598	38.829	-101.352	1.00	0.00	C
ATOM	9435	1HD1	LEU	H	172	18.785	37.889	-100.839	1.00	0.00	H
ATOM	9436	2HD1	LEU	H	172	19.492	39.448	-101.322	1.00	0.00	H
ATOM	9437	3HD1	LEU	H	172	18.374	38.616	-102.393	1.00	0.00	H
ATOM	9438	CD2	LEU	H	172	16.205	38.684	-100.620	1.00	0.00	C
ATOM	9439	1HD2	LEU	H	172	15.981	38.247	-101.590	1.00	0.00	H
ATOM	9440	2HD2	LEU	H	172	15.346	39.272	-100.300	1.00	0.00	H
ATOM	9441	3HD2	LEU	H	172	16.373	37.900	-99.886	1.00	0.00	H
ATOM	9442	N	HIS	H	173	20.832	38.504	-98.975	1.00	0.00	N
ATOM	9443	H	HIS	H	173	20.406	37.615	-99.211	1.00	0.00	H
ATOM	9444	CA	HIS	H	173	22.273	38.666	-99.247	1.00	0.00	C
ATOM	9445	HA	HIS	H	173	22.651	37.691	-99.557	1.00	0.00	H
ATOM	9446	C	HIS	H	173	23.101	39.057	-97.986	1.00	0.00	C
ATOM	9447	O	HIS	H	173	24.212	39.583	-98.085	1.00	0.00	O
ATOM	9448	CB	HIS	H	173	22.403	39.605	-100.474	1.00	0.00	C
ATOM	9449	1HB	HIS	H	173	21.846	39.157	-101.297	1.00	0.00	H
ATOM	9450	2HB	HIS	H	173	21.933	40.562	-100.248	1.00	0.00	H
ATOM	9451	CG	HIS	H	173	23.789	39.896	-100.992	1.00	0.00	C
ATOM	9452	ND1	HIS	H	173	24.576	39.066	-101.748	1.00	0.00	N
ATOM	9453	HD1	HIS	H	173	24.274	38.164	-102.142	1.00	0.00	H
ATOM	9454	CD2	HIS	H	173	24.436	41.095	-100.924	1.00	0.00	C
ATOM	9455	HD2	HIS	H	173	24.044	41.986	-100.455	1.00	0.00	H
ATOM	9456	CE1	HIS	H	173	25.682	39.738	-102.102	1.00	0.00	C
ATOM	9457	HE1	HIS	H	173	26.443	39.355	-102.772	1.00	0.00	H
ATOM	9458	NE2	HIS	H	173	25.676	40.976	-101.571	1.00	0.00	N
ATOM	9459	N	GLY	H	174	22.586	38.828	-96.772	1.00	0.00	N
ATOM	9460	H	GLY	H	174	21.642	38.449	-96.695	1.00	0.00	H
ATOM	9461	CA	GLY	H	174	23.214	39.197	-95.497	1.00	0.00	C
ATOM	9462	1HA	GLY	H	174	22.880	38.484	-94.743	1.00	0.00	H
ATOM	9463	2HA	GLY	H	174	24.298	39.130	-95.579	1.00	0.00	H
ATOM	9464	C	GLY	H	174	22.843	40.600	-94.995	1.00	0.00	C
ATOM	9465	O	GLY	H	174	23.616	41.188	-94.235	1.00	0.00	O
ATOM	9466	N	ARG	H	175	21.731	41.184	-95.463	1.00	0.00	N
ATOM	9467	H	ARG	H	175	21.108	40.597	-96.018	1.00	0.00	H
ATOM	9468	CA	ARG	H	175	21.302	42.573	-95.203	1.00	0.00	C
ATOM	9469	HA	ARG	H	175	21.750	42.919	-94.272	1.00	0.00	H
ATOM	9470	C	ARG	H	175	19.776	42.672	-95.052	1.00	0.00	C
ATOM	9471	O	ARG	H	175	19.029	41.876	-95.613	1.00	0.00	O
ATOM	9472	CB	ARG	H	175	21.734	43.499	-96.363	1.00	0.00	C
ATOM	9473	1HB	ARG	H	175	21.377	43.085	-97.308	1.00	0.00	H
ATOM	9474	2HB	ARG	H	175	21.221	44.453	-96.230	1.00	0.00	H
ATOM	9475	CG	ARG	H	175	23.232	43.833	-96.488	1.00	0.00	C
ATOM	9476	1HG	ARG	H	175	23.298	44.719	-97.122	1.00	0.00	H
ATOM	9477	2HG	ARG	H	175	23.635	44.099	-95.510	1.00	0.00	H
ATOM	9478	CD	ARG	H	175	24.099	42.729	-97.116	1.00	0.00	C
ATOM	9479	1HD	ARG	H	175	24.552	42.130	-96.328	1.00	0.00	H
ATOM	9480	2HD	ARG	H	175	23.462	42.086	-97.728	1.00	0.00	H
ATOM	9481	NE	ARG	H	175	25.159	43.297	-97.969	1.00	0.00	N
ATOM	9482	HE	ARG	H	175	25.070	44.283	-98.216	1.00	0.00	H
ATOM	9483	CZ	ARG	H	175	26.031	42.625	-98.694	1.00	0.00	C
ATOM	9484	NH1	ARG	H	175	26.238	41.350	-98.555	1.00	0.00	N
ATOM	9485	1HH1	ARG	H	175	25.558	40.824	-98.014	1.00	0.00	H
ATOM	9486	2HH1	ARG	H	175	26.651	40.867	-99.332	1.00	0.00	H
ATOM	9487	NH2	ARG	H	175	26.660	43.208	-99.667	1.00	0.00	N
ATOM	9488	1HH2	ARG	H	175	26.305	44.122	-99.961	1.00	0.00	H
ATOM	9489	2HH2	ARG	H	175	27.008	42.613	-100.395	1.00	0.00	H
ATOM	9490	N	GLN	H	176	19.311	43.703	-94.343	1.00	0.00	N
ATOM	9491	H	GLN	H	176	19.972	44.334	-93.925	1.00	0.00	H
ATOM	9492	CA	GLN	H	176	17.892	44.081	-94.324	1.00	0.00	C
ATOM	9493	HA	GLN	H	176	17.303	43.170	-94.193	1.00	0.00	H
ATOM	9494	C	GLN	H	176	17.458	44.741	-95.647	1.00	0.00	C

ATOM	9495	O	GLN	H	176	18.225	45.482	-96.264	1.00	0.00	O
ATOM	9496	CB	GLN	H	176	17.596	45.001	-93.120	1.00	0.00	C
ATOM	9497	1HB	GLN	H	176	16.514	45.093	-93.016	1.00	0.00	H
ATOM	9498	2HB	GLN	H	176	17.974	44.522	-92.215	1.00	0.00	H
ATOM	9499	CG	GLN	H	176	18.193	46.418	-93.225	1.00	0.00	C
ATOM	9500	1HG	GLN	H	176	19.267	46.353	-93.394	1.00	0.00	H
ATOM	9501	2HG	GLN	H	176	17.746	46.944	-94.069	1.00	0.00	H
ATOM	9502	CD	GLN	H	176	17.958	47.234	-91.958	1.00	0.00	C
ATOM	9503	OE1	GLN	H	176	18.630	47.052	-90.957	1.00	0.00	O
ATOM	9504	NE2	GLN	H	176	17.023	48.162	-91.969	1.00	0.00	N
ATOM	9505	1HE2	GLN	H	176	16.910	48.740	-91.138	1.00	0.00	H
ATOM	9506	2HE2	GLN	H	176	16.511	48.373	-92.803	1.00	0.00	H
ATOM	9507	N	LEU	H	177	16.194	44.542	-96.024	1.00	0.00	N
ATOM	9508	H	LEU	H	177	15.613	43.958	-95.438	1.00	0.00	H
ATOM	9509	CA	LEU	H	177	15.491	45.237	-97.111	1.00	0.00	C
ATOM	9510	HA	LEU	H	177	15.838	46.268	-97.158	1.00	0.00	H
ATOM	9511	C	LEU	H	177	13.985	45.287	-96.806	1.00	0.00	C
ATOM	9512	O	LEU	H	177	13.580	44.811	-95.745	1.00	0.00	O
ATOM	9513	CB	LEU	H	177	15.820	44.575	-98.465	1.00	0.00	C
ATOM	9514	1HB	LEU	H	177	15.323	45.148	-99.244	1.00	0.00	H
ATOM	9515	2HB	LEU	H	177	16.891	44.699	-98.628	1.00	0.00	H
ATOM	9516	CG	LEU	H	177	15.498	43.084	-98.683	1.00	0.00	C
ATOM	9517	HG	LEU	H	177	16.105	42.481	-98.008	1.00	0.00	H
ATOM	9518	CD1	LEU	H	177	14.031	42.680	-98.514	1.00	0.00	C
ATOM	9519	1HD1	LEU	H	177	13.393	43.313	-99.131	1.00	0.00	H
ATOM	9520	2HD1	LEU	H	177	13.741	42.757	-97.467	1.00	0.00	H
ATOM	9521	3HD1	LEU	H	177	13.898	41.639	-98.809	1.00	0.00	H
ATOM	9522	CD2	LEU	H	177	15.887	42.769	-100.129	1.00	0.00	C
ATOM	9523	1HD2	LEU	H	177	15.402	43.470	-100.802	1.00	0.00	H
ATOM	9524	2HD2	LEU	H	177	15.575	41.762	-100.392	1.00	0.00	H
ATOM	9525	3HD2	LEU	H	177	16.966	42.864	-100.247	1.00	0.00	H
ATOM	9526	N	LYS	H	178	13.146	45.804	-97.715	1.00	0.00	N
ATOM	9527	H	LYS	H	178	13.537	46.182	-98.577	1.00	0.00	H
ATOM	9528	CA	LYS	H	178	11.677	45.677	-97.616	1.00	0.00	C
ATOM	9529	HA	LYS	H	178	11.465	44.796	-97.015	1.00	0.00	H
ATOM	9530	C	LYS	H	178	11.011	45.368	-98.959	1.00	0.00	C
ATOM	9531	O	LYS	H	178	11.631	45.441	-100.016	1.00	0.00	O
ATOM	9532	CB	LYS	H	178	11.067	46.920	-96.922	1.00	0.00	C
ATOM	9533	1HB	LYS	H	178	11.456	47.818	-97.406	1.00	0.00	H
ATOM	9534	2HB	LYS	H	178	9.984	46.923	-97.060	1.00	0.00	H
ATOM	9535	CG	LYS	H	178	11.337	47.019	-95.406	1.00	0.00	C
ATOM	9536	1HG	LYS	H	178	12.411	47.029	-95.225	1.00	0.00	H
ATOM	9537	2HG	LYS	H	178	10.946	47.975	-95.069	1.00	0.00	H
ATOM	9538	CD	LYS	H	178	10.675	45.887	-94.593	1.00	0.00	C
ATOM	9539	1HD	LYS	H	178	9.592	46.023	-94.594	1.00	0.00	H
ATOM	9540	2HD	LYS	H	178	10.896	44.938	-95.067	1.00	0.00	H
ATOM	9541	CE	LYS	H	178	11.172	45.783	-93.146	1.00	0.00	C
ATOM	9542	1HE	LYS	H	178	12.262	45.870	-93.147	1.00	0.00	H
ATOM	9543	2HE	LYS	H	178	10.750	46.604	-92.561	1.00	0.00	H
ATOM	9544	NZ	LYS	H	178	10.787	44.465	-92.581	1.00	0.00	N
ATOM	9545	1HZ	LYS	H	178	11.207	43.720	-93.131	1.00	0.00	H
ATOM	9546	2HZ	LYS	H	178	9.779	44.310	-92.630	1.00	0.00	H
ATOM	9547	3HZ	LYS	H	178	11.092	44.276	-91.625	1.00	0.00	H
ATOM	9548	N	VAL	H	179	9.738	44.975	-98.894	1.00	0.00	N
ATOM	9549	H	VAL	H	179	9.289	45.017	-97.992	1.00	0.00	H
ATOM	9550	CA	VAL	H	179	8.950	44.390	-99.998	1.00	0.00	C
ATOM	9551	HA	VAL	H	179	9.462	44.579	-100.937	1.00	0.00	H
ATOM	9552	C	VAL	H	179	7.570	45.066	-100.053	1.00	0.00	C
ATOM	9553	O	VAL	H	179	7.117	45.602	-99.043	1.00	0.00	O
ATOM	9554	CB	VAL	H	179	8.830	42.855	-99.804	1.00	0.00	C
ATOM	9555	HB	VAL	H	179	8.278	42.663	-98.883	1.00	0.00	H
ATOM	9556	CG1	VAL	H	179	8.102	42.145	-100.953	1.00	0.00	C
ATOM	9557	1HG1	VAL	H	179	8.607	42.336	-101.899	1.00	0.00	H
ATOM	9558	2HG1	VAL	H	179	7.064	42.467	-101.015	1.00	0.00	H
ATOM	9559	3HG1	VAL	H	179	8.101	41.072	-100.780	1.00	0.00	H
ATOM	9560	CG2	VAL	H	179	10.209	42.182	-99.679	1.00	0.00	C
ATOM	9561	1HG2	VAL	H	179	10.725	42.528	-98.786	1.00	0.00	H
ATOM	9562	2HG2	VAL	H	179	10.814	42.409	-100.557	1.00	0.00	H
ATOM	9563	3HG2	VAL	H	179	10.091	41.102	-99.594	1.00	0.00	H
ATOM	9564	N	SER	H	180	6.892	45.076	-101.201	1.00	0.00	N
ATOM	9565	H	SER	H	180	7.339	44.653	-102.012	1.00	0.00	H
ATOM	9566	CA	SER	H	180	5.538	45.636	-101.410	1.00	0.00	C
ATOM	9567	HA	SER	H	180	4.951	45.557	-100.495	1.00	0.00	H
ATOM	9568	C	SER	H	180	4.785	44.888	-102.517	1.00	0.00	C
ATOM	9569	O	SER	H	180	5.401	44.155	-103.282	1.00	0.00	O
ATOM	9570	CB	SER	H	180	5.650	47.111	-101.806	1.00	0.00	C
ATOM	9571	1HB	SER	H	180	6.403	47.224	-102.587	1.00	0.00	H

ATOM	9572	2HB	SER	H	180	4.693	47.478-102.183	1.00	0.00	H
ATOM	9573	OG	SER	H	180	6.012	47.868-100.669	1.00	0.00	O
ATOM	9574	HG	SER	H	180	6.656	47.357-100.163	1.00	0.00	H
ATOM	9575	N	ALA	H	181	3.464	45.057-102.628	1.00	0.00	N
ATOM	9576	H	ALA	H	181	3.005	45.709-102.014	1.00	0.00	H
ATOM	9577	CA	ALA	H	181	2.708	44.594-103.801	1.00	0.00	C
ATOM	9578	HA	ALA	H	181	2.992	43.570-104.034	1.00	0.00	H
ATOM	9579	C	ALA	H	181	3.006	45.457-105.046	1.00	0.00	C
ATOM	9580	O	ALA	H	181	3.471	46.588-104.905	1.00	0.00	O
ATOM	9581	CB	ALA	H	181	1.215	44.612-103.451	1.00	0.00	C
ATOM	9582	1HB	ALA	H	181	1.028	43.982-102.582	1.00	0.00	H
ATOM	9583	2HB	ALA	H	181	0.636	44.231-104.294	1.00	0.00	H
ATOM	9584	3HB	ALA	H	181	0.894	45.634-103.237	1.00	0.00	H
ATOM	9585	N	LYS	H	182	2.709	44.947-106.248	1.00	0.00	N
ATOM	9586	H	LYS	H	182	2.309	44.015-106.312	1.00	0.00	H
ATOM	9587	CA	LYS	H	182	2.730	45.709-107.508	1.00	0.00	C
ATOM	9588	HA	LYS	H	182	2.436	46.738-107.299	1.00	0.00	H
ATOM	9589	C	LYS	H	182	1.682	45.160-108.482	1.00	0.00	C
ATOM	9590	O	LYS	H	182	1.056	44.117-108.195	1.00	0.00	O
ATOM	9591	OXT	LYS	H	182	1.518	45.714-109.587	1.00	0.00	O
ATOM	9592	CB	LYS	H	182	4.162	45.708-108.094	1.00	0.00	C
ATOM	9593	1HB	LYS	H	182	4.885	45.766-107.280	1.00	0.00	H
ATOM	9594	2HB	LYS	H	182	4.332	44.779-108.641	1.00	0.00	H
ATOM	9595	CG	LYS	H	182	4.394	46.919-109.016	1.00	0.00	C
ATOM	9596	1HG	LYS	H	182	3.642	46.922-109.803	1.00	0.00	H
ATOM	9597	2HG	LYS	H	182	4.274	47.835-108.435	1.00	0.00	H
ATOM	9598	CD	LYS	H	182	5.775	46.934-109.684	1.00	0.00	C
ATOM	9599	1HD	LYS	H	182	6.548	47.124-108.939	1.00	0.00	H
ATOM	9600	2HD	LYS	H	182	5.956	45.976-110.172	1.00	0.00	H
ATOM	9601	CE	LYS	H	182	5.757	48.061-110.723	1.00	0.00	C
ATOM	9602	1HE	LYS	H	182	4.847	47.969-111.323	1.00	0.00	H
ATOM	9603	2HE	LYS	H	182	5.691	49.018-110.195	1.00	0.00	H
ATOM	9604	NZ	LYS	H	182	6.938	48.066-111.620	1.00	0.00	N
ATOM	9605	1HZ	LYS	H	182	7.091	47.190-112.102	1.00	0.00	H
ATOM	9606	2HZ	LYS	H	182	7.768	48.407-111.134	1.00	0.00	H
ATOM	9607	3HZ	LYS	H	182	6.807	48.778-112.335	1.00	0.00	H
TER	9608		LYS	H	182					
ATOM	9609	N	ASP	I	106	3.459	28.015-126.551	1.00	0.00	N
ATOM	9610	1H	ASP	I	106	3.328	28.774-127.202	1.00	0.00	H
ATOM	9611	2H	ASP	I	106	4.456	27.856-126.423	1.00	0.00	H
ATOM	9612	3H	ASP	I	106	3.122	28.293-125.631	1.00	0.00	H
ATOM	9613	CA	ASP	I	106	2.803	26.772-127.011	1.00	0.00	C
ATOM	9614	HA	ASP	I	106	1.739	26.977-127.125	1.00	0.00	H
ATOM	9615	C	ASP	I	106	2.914	25.600-126.018	1.00	0.00	C
ATOM	9616	O	ASP	I	106	1.975	24.810-125.974	1.00	0.00	O
ATOM	9617	CB	ASP	I	106	3.347	26.352-128.385	1.00	0.00	C
ATOM	9618	1HB	ASP	I	106	2.701	25.578-128.803	1.00	0.00	H
ATOM	9619	2HB	ASP	I	106	3.342	27.209-129.062	1.00	0.00	H
ATOM	9620	CG	ASP	I	106	4.766	25.815-128.230	1.00	0.00	C
ATOM	9621	OD1	ASP	I	106	5.610	26.605-127.757	1.00	0.00	O
ATOM	9622	OD2	ASP	I	106	4.963	24.592-128.338	1.00	0.00	O
ATOM	9623	N	SER	I	107	4.044	25.442-125.303	1.00	0.00	N
ATOM	9624	H	SER	I	107	4.694	26.231-125.318	1.00	0.00	H
ATOM	9625	CA	SER	I	107	4.491	24.359-124.386	1.00	0.00	C
ATOM	9626	HA	SER	I	107	4.656	24.846-123.425	1.00	0.00	H
ATOM	9627	C	SER	I	107	5.855	23.745-124.761	1.00	0.00	C
ATOM	9628	O	SER	I	107	6.426	22.986-123.966	1.00	0.00	O
ATOM	9629	CB	SER	I	107	3.476	23.235-124.124	1.00	0.00	C
ATOM	9630	1HB	SER	I	107	3.881	22.554-123.374	1.00	0.00	H
ATOM	9631	2HB	SER	I	107	2.554	23.663-123.728	1.00	0.00	H
ATOM	9632	OG	SER	I	107	3.192	22.506-125.299	1.00	0.00	O
ATOM	9633	HG	SER	I	107	2.701	23.134-125.861	1.00	0.00	H
ATOM	9634	N	ARG	I	108	6.411	24.060-125.941	1.00	0.00	N
ATOM	9635	H	ARG	I	108	5.837	24.558-126.622	1.00	0.00	H
ATOM	9636	CA	ARG	I	108	7.772	23.678-126.371	1.00	0.00	C
ATOM	9637	HA	ARG	I	108	8.238	23.081-125.599	1.00	0.00	H
ATOM	9638	C	ARG	I	108	8.724	24.858-126.531	1.00	0.00	C
ATOM	9639	O	ARG	I	108	9.936	24.634-126.549	1.00	0.00	O
ATOM	9640	CB	ARG	I	108	7.732	22.863-127.677	1.00	0.00	C
ATOM	9641	1HB	ARG	I	108	7.388	23.507-128.488	1.00	0.00	H
ATOM	9642	2HB	ARG	I	108	8.752	22.559-127.924	1.00	0.00	H
ATOM	9643	CG	ARG	I	108	6.848	21.603-127.652	1.00	0.00	C
ATOM	9644	1HG	ARG	I	108	5.800	21.906-127.679	1.00	0.00	H
ATOM	9645	2HG	ARG	I	108	7.050	21.033-128.560	1.00	0.00	H
ATOM	9646	CD	ARG	I	108	7.054	20.684-126.438	1.00	0.00	C
ATOM	9647	1HD	ARG	I	108	6.570	21.135-125.575	1.00	0.00	H
ATOM	9648	2HD	ARG	I	108	6.546	19.739-126.634	1.00	0.00	H

ATOM	9649	NE	ARG	I	108	8.481	20.418-126.166	1.00	0.00	N
ATOM	9650	HE	ARG	I	108	9.009	19.973-126.910	1.00	0.00	H
ATOM	9651	CZ	ARG	I	108	9.157	20.661-125.059	1.00	0.00	C
ATOM	9652	NH1	ARG	I	108	8.615	21.139-123.973	1.00	0.00	N
ATOM	9653	1HH1	ARG	I	108	7.682	21.542-124.028	1.00	0.00	H
ATOM	9654	2HH1	ARG	I	108	9.202	21.395-123.205	1.00	0.00	H
ATOM	9655	NH2	ARG	I	108	10.431	20.431-125.024	1.00	0.00	N
ATOM	9656	1HH2	ARG	I	108	10.941	20.283-125.897	1.00	0.00	H
ATOM	9657	2HH2	ARG	I	108	10.962	20.487-124.174	1.00	0.00	H
ATOM	9658	N	SER	I	109	8.202	26.081-126.597	1.00	0.00	N
ATOM	9659	H	SER	I	109	7.193	26.175-126.597	1.00	0.00	H
ATOM	9660	CA	SER	I	109	8.999	27.305-126.640	1.00	0.00	C
ATOM	9661	HA	SER	I	109	10.000	27.023-126.945	1.00	0.00	H
ATOM	9662	C	SER	I	109	9.155	27.985-125.272	1.00	0.00	C
ATOM	9663	O	SER	I	109	8.501	27.639-124.287	1.00	0.00	O
ATOM	9664	CB	SER	I	109	8.473	28.268-127.720	1.00	0.00	C
ATOM	9665	1HB	SER	I	109	9.093	29.165-127.737	1.00	0.00	H
ATOM	9666	2HB	SER	I	109	8.557	27.783-128.693	1.00	0.00	H
ATOM	9667	OG	SER	I	109	7.125	28.649-127.537	1.00	0.00	O
ATOM	9668	HG	SER	I	109	6.582	27.821-127.547	1.00	0.00	H
ATOM	9669	N	ILE	I	110	10.070	28.952-125.218	1.00	0.00	N
ATOM	9670	H	ILE	I	110	10.633	29.103-126.049	1.00	0.00	H
ATOM	9671	CA	ILE	I	110	10.335	29.833-124.078	1.00	0.00	C
ATOM	9672	HA	ILE	I	110	9.442	29.863-123.452	1.00	0.00	H
ATOM	9673	C	ILE	I	110	10.575	31.257-124.597	1.00	0.00	C
ATOM	9674	O	ILE	I	110	11.321	31.461-125.556	1.00	0.00	O
ATOM	9675	CB	ILE	I	110	11.507	29.312-123.204	1.00	0.00	C
ATOM	9676	HB	ILE	I	110	11.677	30.047-122.415	1.00	0.00	H
ATOM	9677	CG1	ILE	I	110	12.835	29.144-123.976	1.00	0.00	C
ATOM	9678	1HG1	ILE	I	110	12.681	28.478-124.824	1.00	0.00	H
ATOM	9679	2HG1	ILE	I	110	13.140	30.119-124.352	1.00	0.00	H
ATOM	9680	CG2	ILE	I	110	11.103	27.994-122.519	1.00	0.00	C
ATOM	9681	1HG2	ILE	I	110	11.780	27.783-121.697	1.00	0.00	H
ATOM	9682	2HG2	ILE	I	110	11.125	27.173-123.235	1.00	0.00	H
ATOM	9683	3HG2	ILE	I	110	10.097	28.076-122.116	1.00	0.00	H
ATOM	9684	CD1	ILE	I	110	14.004	28.595-123.145	1.00	0.00	C
ATOM	9685	1HD1	ILE	I	110	14.122	29.183-122.237	1.00	0.00	H
ATOM	9686	2HD1	ILE	I	110	14.922	28.655-123.729	1.00	0.00	H
ATOM	9687	3HD1	ILE	I	110	13.829	27.552-122.884	1.00	0.00	H
ATOM	9688	N	TYR	I	111	9.884	32.224-123.998	1.00	0.00	N
ATOM	9689	H	TYR	I	111	9.385	31.959-123.157	1.00	0.00	H
ATOM	9690	CA	TYR	I	111	9.997	33.662-124.255	1.00	0.00	C
ATOM	9691	HA	TYR	I	111	9.955	33.852-125.326	1.00	0.00	H
ATOM	9692	C	TYR	I	111	11.325	34.225-123.721	1.00	0.00	C
ATOM	9693	O	TYR	I	111	11.849	33.732-122.724	1.00	0.00	O
ATOM	9694	CB	TYR	I	111	8.792	34.347-123.582	1.00	0.00	C
ATOM	9695	1HB	TYR	I	111	7.897	34.139-124.169	1.00	0.00	H
ATOM	9696	2HB	TYR	I	111	8.636	33.900-122.601	1.00	0.00	H
ATOM	9697	CG	TYR	I	111	8.927	35.846-123.390	1.00	0.00	C
ATOM	9698	CD1	TYR	I	111	9.663	36.346-122.295	1.00	0.00	C
ATOM	9699	HD1	TYR	I	111	10.102	35.669-121.576	1.00	0.00	H
ATOM	9700	CD2	TYR	I	111	8.334	36.738-124.303	1.00	0.00	C
ATOM	9701	HD2	TYR	I	111	7.739	36.365-125.125	1.00	0.00	H
ATOM	9702	CE1	TYR	I	111	9.838	37.731-122.136	1.00	0.00	C
ATOM	9703	HE1	TYR	I	111	10.374	38.119-121.285	1.00	0.00	H
ATOM	9704	CE2	TYR	I	111	8.486	38.127-124.131	1.00	0.00	C
ATOM	9705	HE2	TYR	I	111	7.994	38.813-124.805	1.00	0.00	H
ATOM	9706	CZ	TYR	I	111	9.251	38.625-123.054	1.00	0.00	C
ATOM	9707	OH	TYR	I	111	9.386	39.963-122.868	1.00	0.00	O
ATOM	9708	HH	TYR	I	111	8.675	40.424-123.340	1.00	0.00	H
ATOM	9709	N	VAL	I	112	11.822	35.310-124.322	1.00	0.00	N
ATOM	9710	H	VAL	I	112	11.304	35.679-125.116	1.00	0.00	H
ATOM	9711	CA	VAL	I	112	13.032	36.045-123.924	1.00	0.00	C
ATOM	9712	HA	VAL	I	112	13.308	35.762-122.909	1.00	0.00	H
ATOM	9713	C	VAL	I	112	12.749	37.553-123.954	1.00	0.00	C
ATOM	9714	O	VAL	I	112	12.298	38.084-124.969	1.00	0.00	O
ATOM	9715	CB	VAL	I	112	14.210	35.710-124.861	1.00	0.00	C
ATOM	9716	HB	VAL	I	112	14.000	36.119-125.846	1.00	0.00	H
ATOM	9717	CG1	VAL	I	112	15.519	36.326-124.352	1.00	0.00	C
ATOM	9718	1HG1	VAL	I	112	15.741	35.957-123.350	1.00	0.00	H
ATOM	9719	2HG1	VAL	I	112	15.437	37.412-124.321	1.00	0.00	H
ATOM	9720	3HG1	VAL	I	112	16.339	36.067-125.022	1.00	0.00	H
ATOM	9721	CG2	VAL	I	112	14.443	34.201-125.026	1.00	0.00	C
ATOM	9722	1HG2	VAL	I	112	14.644	33.741-124.059	1.00	0.00	H
ATOM	9723	2HG2	VAL	I	112	15.284	34.040-125.695	1.00	0.00	H
ATOM	9724	3HG2	VAL	I	112	13.569	33.728-125.473	1.00	0.00	H
ATOM	9725	N	GLY	I	113	13.048	38.247-122.854	1.00	0.00	N



ATOM	9726	H	GLY	I	113	13.505	37.748-122.098	1.00	0.00	H
ATOM	9727	CA	GLY	I	113	12.691	39.647-122.597	1.00	0.00	C
ATOM	9728	1HA	GLY	I	113	12.437	40.151-123.529	1.00	0.00	H
ATOM	9729	2HA	GLY	I	113	11.811	39.677-121.958	1.00	0.00	H
ATOM	9730	C	GLY	I	113	13.798	40.431-121.890	1.00	0.00	C
ATOM	9731	O	GLY	I	113	14.895	39.920-121.669	1.00	0.00	O
ATOM	9732	N	ASN	I	114	13.527	41.701-121.558	1.00	0.00	N
ATOM	9733	H	ASN	I	114	12.577	42.027-121.670	1.00	0.00	H
ATOM	9734	CA	ASN	I	114	14.540	42.672-121.095	1.00	0.00	C
ATOM	9735	HA	ASN	I	114	14.049	43.646-121.049	1.00	0.00	H
ATOM	9736	C	ASN	I	114	15.720	42.825-122.099	1.00	0.00	C
ATOM	9737	O	ASN	I	114	16.868	43.051-121.717	1.00	0.00	O
ATOM	9738	CB	ASN	I	114	14.954	42.298-119.652	1.00	0.00	C
ATOM	9739	1HB	ASN	I	114	14.082	41.927-119.112	1.00	0.00	H
ATOM	9740	2HB	ASN	I	114	15.698	41.503-119.676	1.00	0.00	H
ATOM	9741	CG	ASN	I	114	15.507	43.457-118.841	1.00	0.00	C
ATOM	9742	OD1	ASN	I	114	14.859	43.985-117.959	1.00	0.00	O
ATOM	9743	ND2	ASN	I	114	16.718	43.887-119.090	1.00	0.00	N
ATOM	9744	1HD2	ASN	I	114	17.054	44.640-118.522	1.00	0.00	H
ATOM	9745	2HD2	ASN	I	114	17.215	43.522-119.895	1.00	0.00	H
ATOM	9746	N	VAL	I	115	15.453	42.628-123.397	1.00	0.00	N
ATOM	9747	H	VAL	I	115	14.501	42.430-123.653	1.00	0.00	H
ATOM	9748	CA	VAL	I	115	16.483	42.520-124.444	1.00	0.00	C
ATOM	9749	HA	VAL	I	115	17.302	41.946-124.013	1.00	0.00	H
ATOM	9750	C	VAL	I	115	17.058	43.877-124.872	1.00	0.00	C
ATOM	9751	O	VAL	I	115	16.342	44.869-125.036	1.00	0.00	O
ATOM	9752	CB	VAL	I	115	15.972	41.731-125.672	1.00	0.00	C
ATOM	9753	HB	VAL	I	115	15.259	42.344-126.224	1.00	0.00	H
ATOM	9754	CG1	VAL	I	115	17.130	41.352-126.609	1.00	0.00	C
ATOM	9755	1HG1	VAL	I	115	17.547	42.244-127.075	1.00	0.00	H
ATOM	9756	2HG1	VAL	I	115	16.773	40.705-127.409	1.00	0.00	H
ATOM	9757	3HG1	VAL	I	115	17.908	40.823-126.060	1.00	0.00	H
ATOM	9758	CG2	VAL	I	115	15.266	40.434-125.248	1.00	0.00	C
ATOM	9759	1HG2	VAL	I	115	15.109	39.784-126.108	1.00	0.00	H
ATOM	9760	2HG2	VAL	I	115	14.291	40.664-124.824	1.00	0.00	H
ATOM	9761	3HG2	VAL	I	115	15.859	39.894-124.512	1.00	0.00	H
ATOM	9762	N	ASP	I	116	18.376	43.863-125.080	1.00	0.00	N
ATOM	9763	H	ASP	I	116	18.837	42.990-124.883	1.00	0.00	H
ATOM	9764	CA	ASP	I	116	19.235	44.917-125.630	1.00	0.00	C
ATOM	9765	HA	ASP	I	116	19.182	45.782-124.967	1.00	0.00	H
ATOM	9766	C	ASP	I	116	18.833	45.384-127.058	1.00	0.00	C
ATOM	9767	O	ASP	I	116	17.897	44.865-127.664	1.00	0.00	O
ATOM	9768	CB	ASP	I	116	20.666	44.348-125.575	1.00	0.00	C
ATOM	9769	1HB	ASP	I	116	20.809	43.827-124.626	1.00	0.00	H
ATOM	9770	2HB	ASP	I	116	20.789	43.612-126.372	1.00	0.00	H
ATOM	9771	CG	ASP	I	116	21.760	45.405-125.692	1.00	0.00	C
ATOM	9772	OD1	ASP	I	116	22.340	45.808-124.663	1.00	0.00	O
ATOM	9773	OD2	ASP	I	116	22.096	45.795-126.828	1.00	0.00	O
ATOM	9774	N	TYR	I	117	19.561	46.357-127.617	1.00	0.00	N
ATOM	9775	H	TYR	I	117	20.419	46.625-127.142	1.00	0.00	H
ATOM	9776	CA	TYR	I	117	19.326	46.989-128.921	1.00	0.00	C
ATOM	9777	HA	TYR	I	117	18.388	46.614-129.328	1.00	0.00	H
ATOM	9778	C	TYR	I	117	20.389	46.662-129.989	1.00	0.00	C
ATOM	9779	O	TYR	I	117	20.301	47.180-131.103	1.00	0.00	O
ATOM	9780	CB	TYR	I	117	19.186	48.507-128.712	1.00	0.00	C
ATOM	9781	1HB	TYR	I	117	18.861	48.960-129.650	1.00	0.00	H
ATOM	9782	2HB	TYR	I	117	18.399	48.692-127.981	1.00	0.00	H
ATOM	9783	CG	TYR	I	117	20.457	49.203-128.248	1.00	0.00	C
ATOM	9784	CD1	TYR	I	117	20.712	49.373-126.873	1.00	0.00	C
ATOM	9785	HD1	TYR	I	117	20.009	49.001-126.141	1.00	0.00	H
ATOM	9786	CD2	TYR	I	117	21.392	49.665-129.196	1.00	0.00	C
ATOM	9787	HD2	TYR	I	117	21.203	49.515-130.252	1.00	0.00	H
ATOM	9788	CE1	TYR	I	117	21.898	50.003-126.446	1.00	0.00	C
ATOM	9789	HE1	TYR	I	117	22.109	50.117-125.394	1.00	0.00	H
ATOM	9790	CE2	TYR	I	117	22.584	50.285-128.774	1.00	0.00	C
ATOM	9791	HE2	TYR	I	117	23.302	50.617-129.506	1.00	0.00	H
ATOM	9792	CZ	TYR	I	117	22.838	50.454-127.396	1.00	0.00	C
ATOM	9793	OH	TYR	I	117	23.988	51.052-126.986	1.00	0.00	O
ATOM	9794	HH	TYR	I	117	24.560	51.244-127.725	1.00	0.00	H
ATOM	9795	N	ALA	I	118	21.374	45.813-129.676	1.00	0.00	N
ATOM	9796	H	ALA	I	118	21.494	45.568-128.696	1.00	0.00	H
ATOM	9797	CA	ALA	I	118	22.397	45.342-130.620	1.00	0.00	C
ATOM	9798	HA	ALA	I	118	22.124	45.656-131.628	1.00	0.00	H
ATOM	9799	C	ALA	I	118	22.531	43.801-130.690	1.00	0.00	C
ATOM	9800	O	ALA	I	118	23.381	43.300-131.422	1.00	0.00	O
ATOM	9801	CB	ALA	I	118	23.718	46.032-130.256	1.00	0.00	C
ATOM	9802	1HB	ALA	I	118	24.014	45.747-129.246	1.00	0.00	H

ATOM	9803	2HB	ALA	I	118	23.593	47.114-130.303	1.00	0.00	H
ATOM	9804	3HB	ALA	I	118	24.496	45.729-130.957	1.00	0.00	H
ATOM	9805	N	CYS	I	119	21.689	43.071-129.949	1.00	0.00	N
ATOM	9806	H	CYS	I	119	20.989	43.572-129.432	1.00	0.00	H
ATOM	9807	CA	CYS	I	119	21.611	41.606-129.928	1.00	0.00	C
ATOM	9808	HA	CYS	I	119	22.620	41.190-129.878	1.00	0.00	H
ATOM	9809	C	CYS	I	119	20.913	41.034-131.186	1.00	0.00	C
ATOM	9810	O	CYS	I	119	20.098	41.716-131.813	1.00	0.00	O
ATOM	9811	CB	CYS	I	119	20.845	41.248-128.643	1.00	0.00	C
ATOM	9812	1HB	CYS	I	119	21.312	41.759-127.801	1.00	0.00	H
ATOM	9813	2HB	CYS	I	119	19.809	41.579-128.737	1.00	0.00	H
ATOM	9814	SG	CYS	I	119	20.881	39.467-128.314	1.00	0.00	S
ATOM	9815	HG	CYS	I	119	20.120	39.473-127.215	1.00	0.00	H
ATOM	9816	N	THR	I	120	21.176	39.767-131.524	1.00	0.00	N
ATOM	9817	H	THR	I	120	21.908	39.299-130.996	1.00	0.00	H
ATOM	9818	CA	THR	I	120	20.712	39.096-132.756	1.00	0.00	C
ATOM	9819	HA	THR	I	120	19.956	39.717-133.231	1.00	0.00	H
ATOM	9820	C	THR	I	120	20.102	37.706-132.494	1.00	0.00	C
ATOM	9821	O	THR	I	120	20.548	36.992-131.593	1.00	0.00	O
ATOM	9822	CB	THR	I	120	21.880	38.930-133.747	1.00	0.00	C
ATOM	9823	HB	THR	I	120	21.508	38.422-134.635	1.00	0.00	H
ATOM	9824	OG1	THR	I	120	22.916	38.152-133.192	1.00	0.00	O
ATOM	9825	HG1	THR	I	120	23.297	38.660-132.440	1.00	0.00	H
ATOM	9826	CG2	THR	I	120	22.487	40.262-134.185	1.00	0.00	C
ATOM	9827	1HG2	THR	I	120	21.706	40.906-134.589	1.00	0.00	H
ATOM	9828	2HG2	THR	I	120	23.234	40.077-134.956	1.00	0.00	H
ATOM	9829	3HG2	THR	I	120	22.964	40.760-133.339	1.00	0.00	H
ATOM	9830	N	PRO	I	121	19.108	37.245-133.283	1.00	0.00	N
ATOM	9831	CA	PRO	I	121	18.564	35.890-133.134	1.00	0.00	C
ATOM	9832	HA	PRO	I	121	18.244	35.736-132.104	1.00	0.00	H
ATOM	9833	C	PRO	I	121	19.599	34.804-133.478	1.00	0.00	C
ATOM	9834	O	PRO	I	121	19.529	33.691-132.953	1.00	0.00	O
ATOM	9835	CB	PRO	I	121	17.334	35.840-134.046	1.00	0.00	C
ATOM	9836	1HB	PRO	I	121	17.168	34.846-134.461	1.00	0.00	H
ATOM	9837	2HB	PRO	I	121	16.457	36.169-133.488	1.00	0.00	H
ATOM	9838	CG	PRO	I	121	17.655	36.860-135.135	1.00	0.00	C
ATOM	9839	1HG	PRO	I	121	18.265	36.385-135.899	1.00	0.00	H
ATOM	9840	2HG	PRO	I	121	16.755	37.271-135.588	1.00	0.00	H
ATOM	9841	CD	PRO	I	121	18.468	37.929-134.399	1.00	0.00	C
ATOM	9842	1HD	PRO	I	121	19.199	38.376-135.073	1.00	0.00	H
ATOM	9843	2HD	PRO	I	121	17.801	38.699-134.015	1.00	0.00	H
ATOM	9844	N	GLU	I	122	20.580	35.122-134.327	1.00	0.00	N
ATOM	9845	H	GLU	I	122	20.541	36.026-134.797	1.00	0.00	H
ATOM	9846	CA	GLU	I	122	21.751	34.291-134.616	1.00	0.00	C
ATOM	9847	HA	GLU	I	122	21.425	33.327-135.005	1.00	0.00	H
ATOM	9848	C	GLU	I	122	22.595	34.002-133.359	1.00	0.00	C
ATOM	9849	O	GLU	I	122	22.968	32.849-133.136	1.00	0.00	O
ATOM	9850	CB	GLU	I	122	22.616	34.969-135.696	1.00	0.00	C
ATOM	9851	1HB	GLU	I	122	22.870	35.984-135.387	1.00	0.00	H
ATOM	9852	2HB	GLU	I	122	23.550	34.410-135.769	1.00	0.00	H
ATOM	9853	CG	GLU	I	122	21.993	34.991-137.108	1.00	0.00	C
ATOM	9854	1HG	GLU	I	122	22.772	35.289-137.812	1.00	0.00	H
ATOM	9855	2HG	GLU	I	122	21.690	33.973-137.367	1.00	0.00	H
ATOM	9856	CD	GLU	I	122	20.797	35.941-137.291	1.00	0.00	C
ATOM	9857	OE1	GLU	I	122	19.981	35.709-138.218	1.00	0.00	O
ATOM	9858	OE2	GLU	I	122	20.649	36.909-136.518	1.00	0.00	O
ATOM	9859	N	GLU	I	123	22.867	34.995-132.500	1.00	0.00	N
ATOM	9860	H	GLU	I	123	22.569	35.942-132.715	1.00	0.00	H
ATOM	9861	CA	GLU	I	123	23.662	34.765-131.281	1.00	0.00	C
ATOM	9862	HA	GLU	I	123	24.390	33.992-131.516	1.00	0.00	H
ATOM	9863	C	GLU	I	123	22.829	34.237-130.099	1.00	0.00	C
ATOM	9864	O	GLU	I	123	23.337	33.429-129.317	1.00	0.00	O
ATOM	9865	CB	GLU	I	123	24.505	35.998-130.917	1.00	0.00	C
ATOM	9866	1HB	GLU	I	123	25.375	35.663-130.352	1.00	0.00	H
ATOM	9867	2HB	GLU	I	123	24.872	36.447-131.842	1.00	0.00	H
ATOM	9868	CG	GLU	I	123	23.784	37.059-130.081	1.00	0.00	C
ATOM	9869	1HG	GLU	I	123	22.750	37.141-130.408	1.00	0.00	H
ATOM	9870	2HG	GLU	I	123	23.782	36.760-129.030	1.00	0.00	H
ATOM	9871	CD	GLU	I	123	24.464	38.416-130.249	1.00	0.00	C
ATOM	9872	OE1	GLU	I	123	23.887	39.260-130.971	1.00	0.00	O
ATOM	9873	OE2	GLU	I	123	25.556	38.625-129.677	1.00	0.00	O
ATOM	9874	N	VAL	I	124	21.546	34.616-129.996	1.00	0.00	N
ATOM	9875	H	VAL	I	124	21.215	35.322-130.650	1.00	0.00	H
ATOM	9876	CA	VAL	I	124	20.613	34.133-128.956	1.00	0.00	C
ATOM	9877	HA	VAL	I	124	20.995	34.429-127.981	1.00	0.00	H
ATOM	9878	C	VAL	I	124	20.521	32.606-128.941	1.00	0.00	C
ATOM	9879	O	VAL	I	124	20.674	31.990-127.885	1.00	0.00	O

ATOM	9880	CB	VAL	I	124	19.214	34.766-129.144	1.00	0.00	C
ATOM	9881	HB	VAL	I	124	18.939	34.697-130.196	1.00	0.00	H
ATOM	9882	CG1	VAL	I	124	18.104	34.093-128.323	1.00	0.00	C
ATOM	9883	1HG1	VAL	I	124	17.169	34.640-128.444	1.00	0.00	H
ATOM	9884	2HG1	VAL	I	124	18.384	34.085-127.270	1.00	0.00	H
ATOM	9885	3HG1	VAL	I	124	17.942	33.071-128.664	1.00	0.00	H
ATOM	9886	CG2	VAL	I	124	19.210	36.240-128.726	1.00	0.00	C
ATOM	9887	1HG2	VAL	I	124	18.295	36.721-129.074	1.00	0.00	H
ATOM	9888	2HG2	VAL	I	124	20.060	36.760-129.162	1.00	0.00	H
ATOM	9889	3HG2	VAL	I	124	19.267	36.328-127.642	1.00	0.00	H
ATOM	9890	N	GLN	I	125	20.301	31.977-130.102	1.00	0.00	N
ATOM	9891	H	GLN	I	125	20.200	32.528-130.946	1.00	0.00	H
ATOM	9892	CA	GLN	I	125	20.152	30.519-130.169	1.00	0.00	C
ATOM	9893	HA	GLN	I	125	19.385	30.243-129.444	1.00	0.00	H
ATOM	9894	C	GLN	I	125	21.428	29.780-129.723	1.00	0.00	C
ATOM	9895	O	GLN	I	125	21.342	28.878-128.892	1.00	0.00	O
ATOM	9896	CB	GLN	I	125	19.618	30.085-131.550	1.00	0.00	C
ATOM	9897	1HB	GLN	I	125	19.409	29.014-131.526	1.00	0.00	H
ATOM	9898	2HB	GLN	I	125	18.671	30.601-131.718	1.00	0.00	H
ATOM	9899	CG	GLN	I	125	20.545	30.377-132.740	1.00	0.00	C
ATOM	9900	1HG	GLN	I	125	20.927	31.391-132.657	1.00	0.00	H
ATOM	9901	2HG	GLN	I	125	21.393	29.692-132.724	1.00	0.00	H
ATOM	9902	CD	GLN	I	125	19.827	30.234-134.083	1.00	0.00	C
ATOM	9903	OE1	GLN	I	125	19.513	29.142-134.535	1.00	0.00	O
ATOM	9904	NE2	GLN	I	125	19.537	31.337-134.740	1.00	0.00	N
ATOM	9905	1HE2	GLN	I	125	19.125	31.282-135.674	1.00	0.00	H
ATOM	9906	2HE2	GLN	I	125	19.698	32.229-134.294	1.00	0.00	H
ATOM	9907	N	GLN	I	126	22.619	30.193-130.180	1.00	0.00	N
ATOM	9908	H	GLN	I	126	22.651	30.968-130.829	1.00	0.00	H
ATOM	9909	CA	GLN	I	126	23.881	29.548-129.779	1.00	0.00	C
ATOM	9910	HA	GLN	I	126	23.702	28.472-129.799	1.00	0.00	H
ATOM	9911	C	GLN	I	126	24.316	29.850-128.330	1.00	0.00	C
ATOM	9912	O	GLN	I	126	24.985	29.011-127.721	1.00	0.00	O
ATOM	9913	CB	GLN	I	126	24.985	29.792-130.826	1.00	0.00	C
ATOM	9914	1HB	GLN	I	126	25.866	29.206-130.558	1.00	0.00	H
ATOM	9915	2HB	GLN	I	126	24.620	29.400-131.776	1.00	0.00	H
ATOM	9916	CG	GLN	I	126	25.404	31.251-131.060	1.00	0.00	C
ATOM	9917	1HG	GLN	I	126	25.848	31.325-132.053	1.00	0.00	H
ATOM	9918	2HG	GLN	I	126	24.523	31.886-131.053	1.00	0.00	H
ATOM	9919	CD	GLN	I	126	26.442	31.760-130.064	1.00	0.00	C
ATOM	9920	OE1	GLN	I	126	27.593	31.364-130.081	1.00	0.00	O
ATOM	9921	NE2	GLN	I	126	26.088	32.663-129.180	1.00	0.00	N
ATOM	9922	1HE2	GLN	I	126	26.801	32.978-128.544	1.00	0.00	H
ATOM	9923	2HE2	GLN	I	126	25.134	33.001-129.141	1.00	0.00	H
ATOM	9924	N	HIS	I	127	23.878	30.970-127.734	1.00	0.00	N
ATOM	9925	H	HIS	I	127	23.342	31.641-128.273	1.00	0.00	H
ATOM	9926	CA	HIS	I	127	24.069	31.232-126.299	1.00	0.00	C
ATOM	9927	HA	HIS	I	127	25.135	31.198-126.068	1.00	0.00	H
ATOM	9928	C	HIS	I	127	23.391	30.137-125.465	1.00	0.00	C
ATOM	9929	O	HIS	I	127	24.052	29.448-124.692	1.00	0.00	O
ATOM	9930	CB	HIS	I	127	23.522	32.619-125.905	1.00	0.00	C
ATOM	9931	1HB	HIS	I	127	22.841	32.992-126.670	1.00	0.00	H
ATOM	9932	2HB	HIS	I	127	22.942	32.513-124.988	1.00	0.00	H
ATOM	9933	CG	HIS	I	127	24.580	33.663-125.635	1.00	0.00	C
ATOM	9934	ND1	HIS	I	127	25.122	33.980-124.406	1.00	0.00	N
ATOM	9935	HD1	HIS	I	127	24.817	33.642-123.497	1.00	0.00	H
ATOM	9936	CD2	HIS	I	127	25.112	34.540-126.542	1.00	0.00	C
ATOM	9937	HD2	HIS	I	127	24.858	34.604-127.589	1.00	0.00	H
ATOM	9938	CE1	HIS	I	127	25.992	34.990-124.579	1.00	0.00	C
ATOM	9939	HE1	HIS	I	127	26.553	35.471-123.784	1.00	0.00	H
ATOM	9940	NE2	HIS	I	127	25.997	35.383-125.864	1.00	0.00	N
ATOM	9941	N	PHE	I	128	22.086	29.915-125.660	1.00	0.00	N
ATOM	9942	H	PHE	I	128	21.574	30.508-126.305	1.00	0.00	H
ATOM	9943	CA	PHE	I	128	21.366	28.884-124.907	1.00	0.00	C
ATOM	9944	HA	PHE	I	128	21.601	29.004-123.849	1.00	0.00	H
ATOM	9945	C	PHE	I	128	21.804	27.462-125.287	1.00	0.00	C
ATOM	9946	O	PHE	I	128	21.948	26.625-124.396	1.00	0.00	O
ATOM	9947	CB	PHE	I	128	19.855	29.055-125.085	1.00	0.00	C
ATOM	9948	1HB	PHE	I	128	19.619	28.850-126.126	1.00	0.00	H
ATOM	9949	2HB	PHE	I	128	19.347	28.305-124.476	1.00	0.00	H
ATOM	9950	CG	PHE	I	128	19.286	30.417-124.724	1.00	0.00	C
ATOM	9951	CD1	PHE	I	128	19.678	31.090-123.549	1.00	0.00	C
ATOM	9952	HD1	PHE	I	128	20.419	30.660-122.891	1.00	0.00	H
ATOM	9953	CD2	PHE	I	128	18.330	31.006-125.571	1.00	0.00	C
ATOM	9954	HD2	PHE	I	128	18.043	30.511-126.486	1.00	0.00	H
ATOM	9955	CE1	PHE	I	128	19.113	32.338-123.227	1.00	0.00	C
ATOM	9956	HE1	PHE	I	128	19.436	32.865-122.338	1.00	0.00	H

ATOM	9957	CE2	PHE	I	128	17.748	32.238-125.236	1.00	0.00	C
ATOM	9958	HE2	PHE	I	128	17.009	32.672-125.890	1.00	0.00	H
ATOM	9959	CZ	PHE	I	128	18.137	32.907-124.063	1.00	0.00	C
ATOM	9960	HZ	PHE	I	128	17.698	33.862-123.810	1.00	0.00	H
ATOM	9961	N	GLN	I	129	22.092	27.194-126.571	1.00	0.00	N
ATOM	9962	H	GLN	I	129	21.931	27.920-127.263	1.00	0.00	H
ATOM	9963	CA	GLN	I	129	22.582	25.887-127.038	1.00	0.00	C
ATOM	9964	HA	GLN	I	129	21.813	25.151-126.807	1.00	0.00	H
ATOM	9965	C	GLN	I	129	23.871	25.438-126.326	1.00	0.00	C
ATOM	9966	O	GLN	I	129	24.082	24.239-126.147	1.00	0.00	O
ATOM	9967	CB	GLN	I	129	22.786	25.907-128.565	1.00	0.00	C
ATOM	9968	1HB	GLN	I	129	22.001	26.494-129.034	1.00	0.00	H
ATOM	9969	2HB	GLN	I	129	23.743	26.377-128.798	1.00	0.00	H
ATOM	9970	CG	GLN	I	129	22.735	24.507-129.193	1.00	0.00	C
ATOM	9971	1HG	GLN	I	129	23.545	23.896-128.796	1.00	0.00	H
ATOM	9972	2HG	GLN	I	129	21.787	24.032-128.946	1.00	0.00	H
ATOM	9973	CD	GLN	I	129	22.876	24.577-130.710	1.00	0.00	C
ATOM	9974	OE1	GLN	I	129	23.965	24.576-131.256	1.00	0.00	O
ATOM	9975	NE2	GLN	I	129	21.796	24.653-131.457	1.00	0.00	N
ATOM	9976	1HE2	GLN	I	129	21.946	24.743-132.444	1.00	0.00	H
ATOM	9977	2HE2	GLN	I	129	20.862	24.650-131.057	1.00	0.00	H
ATOM	9978	N	SER	I	130	24.698	26.391-125.879	1.00	0.00	N
ATOM	9979	H	SER	I	130	24.460	27.356-126.074	1.00	0.00	H
ATOM	9980	CA	SER	I	130	25.913	26.146-125.086	1.00	0.00	C
ATOM	9981	HA	SER	I	130	26.506	25.386-125.593	1.00	0.00	H
ATOM	9982	C	SER	I	130	25.648	25.627-123.659	1.00	0.00	C
ATOM	9983	O	SER	I	130	26.574	25.135-123.016	1.00	0.00	O
ATOM	9984	CB	SER	I	130	26.759	27.423-125.016	1.00	0.00	C
ATOM	9985	1HB	SER	I	130	26.209	28.213-124.504	1.00	0.00	H
ATOM	9986	2HB	SER	I	130	27.668	27.215-124.451	1.00	0.00	H
ATOM	9987	OG	SER	I	130	27.124	27.851-126.318	1.00	0.00	O
ATOM	9988	HG	SER	I	130	26.364	28.285-126.745	1.00	0.00	H
ATOM	9989	N	CYS	I	131	24.399	25.682-123.180	1.00	0.00	N
ATOM	9990	H	CYS	I	131	23.700	26.131-123.758	1.00	0.00	H
ATOM	9991	CA	CYS	I	131	23.980	25.231-121.845	1.00	0.00	C
ATOM	9992	HA	CYS	I	131	24.837	24.842-121.294	1.00	0.00	H
ATOM	9993	C	CYS	I	131	22.923	24.111-121.892	1.00	0.00	C
ATOM	9994	O	CYS	I	131	22.929	23.218-121.047	1.00	0.00	O
ATOM	9995	CB	CYS	I	131	23.412	26.430-121.076	1.00	0.00	C
ATOM	9996	1HB	CYS	I	131	22.614	26.901-121.654	1.00	0.00	H
ATOM	9997	2HB	CYS	I	131	22.995	26.075-120.136	1.00	0.00	H
ATOM	9998	SG	CYS	I	131	24.693	27.657-120.705	1.00	0.00	S
ATOM	9999	HG	CYS	I	131	23.878	28.479-120.019	1.00	0.00	H
ATOM	10000	N	GLY	I	132	22.033	24.124-122.887	1.00	0.00	N
ATOM	10001	H	GLY	I	132	22.043	24.912-123.529	1.00	0.00	H
ATOM	10002	CA	GLY	I	132	21.043	23.077-123.138	1.00	0.00	C
ATOM	10003	1HA	GLY	I	132	21.497	22.100-122.974	1.00	0.00	H
ATOM	10004	2HA	GLY	I	132	20.201	23.194-122.457	1.00	0.00	H
ATOM	10005	C	GLY	I	132	20.532	23.171-124.574	1.00	0.00	C
ATOM	10006	O	GLY	I	132	20.282	24.264-125.073	1.00	0.00	O
ATOM	10007	N	THR	I	133	20.420	22.036-125.271	1.00	0.00	N
ATOM	10008	H	THR	I	133	20.615	21.161-124.814	1.00	0.00	H
ATOM	10009	CA	THR	I	133	20.150	22.050-126.719	1.00	0.00	C
ATOM	10010	HA	THR	I	133	20.947	22.643-127.166	1.00	0.00	H
ATOM	10011	C	THR	I	133	18.830	22.752-127.064	1.00	0.00	C
ATOM	10012	O	THR	I	133	17.769	22.429-126.534	1.00	0.00	O
ATOM	10013	CB	THR	I	133	20.272	20.655-127.352	1.00	0.00	C
ATOM	10014	HB	THR	I	133	21.261	20.267-127.107	1.00	0.00	H
ATOM	10015	OG1	THR	I	133	20.174	20.758-128.750	1.00	0.00	O
ATOM	10016	HG1	THR	I	133	19.239	20.703-128.976	1.00	0.00	H
ATOM	10017	CG2	THR	I	133	19.236	19.622-126.923	1.00	0.00	C
ATOM	10018	1HG2	THR	I	133	19.551	18.635-127.259	1.00	0.00	H
ATOM	10019	2HG2	THR	I	133	18.274	19.855-127.377	1.00	0.00	H
ATOM	10020	3HG2	THR	I	133	19.137	19.615-125.838	1.00	0.00	H
ATOM	10021	N	VAL	I	134	18.916	23.702-127.995	1.00	0.00	N
ATOM	10022	H	VAL	I	134	19.821	23.865-128.408	1.00	0.00	H
ATOM	10023	CA	VAL	I	134	17.827	24.546-128.505	1.00	0.00	C
ATOM	10024	HA	VAL	I	134	16.873	24.086-128.259	1.00	0.00	H
ATOM	10025	C	VAL	I	134	17.964	24.608-130.030	1.00	0.00	C
ATOM	10026	O	VAL	I	134	19.075	24.447-130.545	1.00	0.00	O
ATOM	10027	CB	VAL	I	134	17.873	25.933-127.827	1.00	0.00	C
ATOM	10028	HB	VAL	I	134	18.128	25.790-126.776	1.00	0.00	H
ATOM	10029	CG1	VAL	I	134	18.916	26.870-128.440	1.00	0.00	C
ATOM	10030	1HG1	VAL	I	134	19.896	26.409-128.366	1.00	0.00	H
ATOM	10031	2HG1	VAL	I	134	18.931	27.812-127.899	1.00	0.00	H
ATOM	10032	3HG1	VAL	I	134	18.691	27.086-129.484	1.00	0.00	H
ATOM	10033	CG2	VAL	I	134	16.522	26.643-127.855	1.00	0.00	C

ATOM	10034	1HG2	VAL	I	134	15.772	26.021-127.366	1.00	0.00	H
ATOM	10035	2HG2	VAL	I	134	16.218	26.847-128.881	1.00	0.00	H
ATOM	10036	3HG2	VAL	I	134	16.596	27.581-127.307	1.00	0.00	H
ATOM	10037	N	ASN	I	135	16.861	24.784-130.758	1.00	0.00	N
ATOM	10038	H	ASN	I	135	15.976	24.927-130.274	1.00	0.00	H
ATOM	10039	CA	ASN	I	135	16.815	24.538-132.202	1.00	0.00	C
ATOM	10040	HA	ASN	I	135	17.815	24.298-132.569	1.00	0.00	H
ATOM	10041	C	ASN	I	135	16.397	25.785-132.996	1.00	0.00	C
ATOM	10042	O	ASN	I	135	17.230	26.298-133.745	1.00	0.00	O
ATOM	10043	CB	ASN	I	135	15.951	23.286-132.437	1.00	0.00	C
ATOM	10044	1HB	ASN	I	135	16.528	22.405-132.164	1.00	0.00	H
ATOM	10045	2HB	ASN	I	135	15.079	23.313-131.787	1.00	0.00	H
ATOM	10046	CG	ASN	I	135	15.498	23.103-133.875	1.00	0.00	C
ATOM	10047	OD1	ASN	I	135	16.285	22.924-134.788	1.00	0.00	O
ATOM	10048	ND2	ASN	I	135	14.214	23.147-134.120	1.00	0.00	N
ATOM	10049	1HD2	ASN	I	135	13.900	23.030-135.060	1.00	0.00	H
ATOM	10050	2HD2	ASN	I	135	13.594	23.476-133.369	1.00	0.00	H
ATOM	10051	N	ARG	I	136	15.173	26.308-132.842	1.00	0.00	N
ATOM	10052	H	ARG	I	136	14.502	25.798-132.264	1.00	0.00	H
ATOM	10053	CA	ARG	I	136	14.675	27.484-133.596	1.00	0.00	C
ATOM	10054	HA	ARG	I	136	15.456	27.831-134.269	1.00	0.00	H
ATOM	10055	C	ARG	I	136	14.415	28.707-132.714	1.00	0.00	C
ATOM	10056	O	ARG	I	136	14.428	28.621-131.488	1.00	0.00	O
ATOM	10057	CB	ARG	I	136	13.443	27.081-134.439	1.00	0.00	C
ATOM	10058	1HB	ARG	I	136	13.058	26.118-134.105	1.00	0.00	H
ATOM	10059	2HB	ARG	I	136	12.640	27.802-134.277	1.00	0.00	H
ATOM	10060	CG	ARG	I	136	13.689	26.997-135.956	1.00	0.00	C
ATOM	10061	1HG	ARG	I	136	12.740	26.721-136.413	1.00	0.00	H
ATOM	10062	2HG	ARG	I	136	13.952	27.986-136.334	1.00	0.00	H
ATOM	10063	CD	ARG	I	136	14.748	25.966-136.395	1.00	0.00	C
ATOM	10064	1HD	ARG	I	136	14.630	25.064-135.798	1.00	0.00	H
ATOM	10065	2HD	ARG	I	136	14.578	25.687-137.433	1.00	0.00	H
ATOM	10066	NE	ARG	I	136	16.125	26.470-136.250	1.00	0.00	N
ATOM	10067	HE	ARG	I	136	16.637	26.177-135.426	1.00	0.00	H
ATOM	10068	CZ	ARG	I	136	16.702	27.432-136.936	1.00	0.00	C
ATOM	10069	NH1	ARG	I	136	16.213	27.891-138.045	1.00	0.00	N
ATOM	10070	1HH1	ARG	I	136	15.391	27.479-138.457	1.00	0.00	H
ATOM	10071	2HH1	ARG	I	136	16.732	28.670-138.458	1.00	0.00	H
ATOM	10072	NH2	ARG	I	136	17.781	28.014-136.518	1.00	0.00	N
ATOM	10073	1HH2	ARG	I	136	18.201	27.840-135.612	1.00	0.00	H
ATOM	10074	2HH2	ARG	I	136	18.110	28.814-137.061	1.00	0.00	H
ATOM	10075	N	VAL	I	137	14.217	29.852-133.376	1.00	0.00	N
ATOM	10076	H	VAL	I	137	14.169	29.812-134.382	1.00	0.00	H
ATOM	10077	CA	VAL	I	137	14.124	31.199-132.790	1.00	0.00	C
ATOM	10078	HA	VAL	I	137	13.704	31.111-131.791	1.00	0.00	H
ATOM	10079	C	VAL	I	137	13.201	32.101-133.622	1.00	0.00	C
ATOM	10080	O	VAL	I	137	13.176	31.988-134.847	1.00	0.00	O
ATOM	10081	CB	VAL	I	137	15.539	31.821-132.672	1.00	0.00	C
ATOM	10082	HB	VAL	I	137	16.139	31.151-132.057	1.00	0.00	H
ATOM	10083	CG1	VAL	I	137	16.269	31.969-134.014	1.00	0.00	C
ATOM	10084	1HG1	VAL	I	137	15.717	32.622-134.687	1.00	0.00	H
ATOM	10085	2HG1	VAL	I	137	16.404	30.996-134.484	1.00	0.00	H
ATOM	10086	3HG1	VAL	I	137	17.253	32.400-133.839	1.00	0.00	H
ATOM	10087	CG2	VAL	I	137	15.546	33.195-131.984	1.00	0.00	C
ATOM	10088	1HG2	VAL	I	137	16.573	33.480-131.751	1.00	0.00	H
ATOM	10089	2HG2	VAL	I	137	14.976	33.156-131.056	1.00	0.00	H
ATOM	10090	3HG2	VAL	I	137	15.110	33.954-132.634	1.00	0.00	H
ATOM	10091	N	THR	I	138	12.523	33.038-132.957	1.00	0.00	N
ATOM	10092	H	THR	I	138	12.578	33.016-131.942	1.00	0.00	H
ATOM	10093	CA	THR	I	138	11.723	34.134-133.539	1.00	0.00	C
ATOM	10094	HA	THR	I	138	12.011	34.299-134.577	1.00	0.00	H
ATOM	10095	C	THR	I	138	11.976	35.407-132.723	1.00	0.00	C
ATOM	10096	O	THR	I	138	12.201	35.313-131.517	1.00	0.00	O
ATOM	10097	CB	THR	I	138	10.223	33.795-133.487	1.00	0.00	C
ATOM	10098	HB	THR	I	138	9.938	33.666-132.445	1.00	0.00	H
ATOM	10099	OG1	THR	I	138	9.944	32.603-134.178	1.00	0.00	O
ATOM	10100	HG1	THR	I	138	8.984	32.532-134.217	1.00	0.00	H
ATOM	10101	CG2	THR	I	138	9.329	34.859-134.124	1.00	0.00	C
ATOM	10102	1HG2	THR	I	138	9.339	35.771-133.528	1.00	0.00	H
ATOM	10103	2HG2	THR	I	138	8.299	34.505-134.169	1.00	0.00	H
ATOM	10104	3HG2	THR	I	138	9.670	35.079-135.135	1.00	0.00	H
ATOM	10105	N	ILE	I	139	11.947	36.596-133.341	1.00	0.00	N
ATOM	10106	H	ILE	I	139	11.672	36.641-134.312	1.00	0.00	H
ATOM	10107	CA	ILE	I	139	12.298	37.870-132.684	1.00	0.00	C
ATOM	10108	HA	ILE	I	139	12.127	37.761-131.613	1.00	0.00	H
ATOM	10109	C	ILE	I	139	11.417	39.040-133.150	1.00	0.00	C
ATOM	10110	O	ILE	I	139	11.059	39.142-134.322	1.00	0.00	O

ATOM	10111	CB	ILE	I	139	13.808	38.168-132.879	1.00	0.00	C
ATOM	10112	HB	ILE	I	139	14.354	37.298-132.510	1.00	0.00	H
ATOM	10113	CG1	ILE	I	139	14.260	39.382-132.037	1.00	0.00	C
ATOM	10114	1HG1	ILE	I	139	13.871	40.304-132.471	1.00	0.00	H
ATOM	10115	2HG1	ILE	I	139	13.846	39.283-131.036	1.00	0.00	H
ATOM	10116	CG2	ILE	I	139	14.184	38.362-134.362	1.00	0.00	C
ATOM	10117	1HG2	ILE	I	139	15.254	38.524-134.459	1.00	0.00	H
ATOM	10118	2HG2	ILE	I	139	13.668	39.227-134.777	1.00	0.00	H
ATOM	10119	3HG2	ILE	I	139	13.918	37.478-134.940	1.00	0.00	H
ATOM	10120	CD1	ILE	I	139	15.783	39.515-131.903	1.00	0.00	C
ATOM	10121	1HD1	ILE	I	139	16.216	38.571-131.570	1.00	0.00	H
ATOM	10122	2HD1	ILE	I	139	16.016	40.286-131.170	1.00	0.00	H
ATOM	10123	3HD1	ILE	I	139	16.221	39.808-132.855	1.00	0.00	H
ATOM	10124	N	LEU	I	140	11.131	39.956-132.225	1.00	0.00	N
ATOM	10125	H	LEU	I	140	11.424	39.759-131.271	1.00	0.00	H
ATOM	10126	CA	LEU	I	140	10.333	41.165-132.392	1.00	0.00	C
ATOM	10127	HA	LEU	I	140	10.205	41.347-133.460	1.00	0.00	H
ATOM	10128	C	LEU	I	140	11.089	42.368-131.806	1.00	0.00	C
ATOM	10129	O	LEU	I	140	10.844	42.838-130.698	1.00	0.00	O
ATOM	10130	CB	LEU	I	140	8.933	40.933-131.785	1.00	0.00	C
ATOM	10131	1HB	LEU	I	140	8.483	40.084-132.302	1.00	0.00	H
ATOM	10132	2HB	LEU	I	140	9.045	40.660-130.733	1.00	0.00	H
ATOM	10133	CG	LEU	I	140	7.958	42.127-131.865	1.00	0.00	C
ATOM	10134	HG	LEU	I	140	8.257	42.892-131.150	1.00	0.00	H
ATOM	10135	CD1	LEU	I	140	7.897	42.766-133.258	1.00	0.00	C
ATOM	10136	1HD1	LEU	I	140	8.845	43.250-133.487	1.00	0.00	H
ATOM	10137	2HD1	LEU	I	140	7.112	43.522-133.271	1.00	0.00	H
ATOM	10138	3HD1	LEU	I	140	7.675	42.003-134.004	1.00	0.00	H
ATOM	10139	CD2	LEU	I	140	6.548	41.657-131.511	1.00	0.00	C
ATOM	10140	1HD2	LEU	I	140	6.177	40.955-132.257	1.00	0.00	H
ATOM	10141	2HD2	LEU	I	140	5.874	42.512-131.447	1.00	0.00	H
ATOM	10142	3HD2	LEU	I	140	6.560	41.163-130.539	1.00	0.00	H
ATOM	10143	N	THR	I	141	12.063	42.876-132.563	1.00	0.00	N
ATOM	10144	H	THR	I	141	12.308	42.397-133.416	1.00	0.00	H
ATOM	10145	CA	THR	I	141	12.684	44.178-132.278	1.00	0.00	C
ATOM	10146	HA	THR	I	141	13.142	44.128-131.295	1.00	0.00	H
ATOM	10147	C	THR	I	141	11.629	45.283-132.241	1.00	0.00	C
ATOM	10148	O	THR	I	141	10.973	45.552-133.250	1.00	0.00	O
ATOM	10149	CB	THR	I	141	13.785	44.497-133.302	1.00	0.00	C
ATOM	10150	HB	THR	I	141	13.424	44.244-134.300	1.00	0.00	H
ATOM	10151	OG1	THR	I	141	14.906	43.701-133.016	1.00	0.00	O
ATOM	10152	HG1	THR	I	141	15.316	44.052-132.206	1.00	0.00	H
ATOM	10153	CG2	THR	I	141	14.266	45.951-133.327	1.00	0.00	C
ATOM	10154	1HG2	THR	I	141	13.506	46.587-133.777	1.00	0.00	H
ATOM	10155	2HG2	THR	I	141	15.176	46.024-133.922	1.00	0.00	H
ATOM	10156	3HG2	THR	I	141	14.468	46.306-132.317	1.00	0.00	H
ATOM	10157	N	ASP	I	142	11.522	45.943-131.088	1.00	0.00	N
ATOM	10158	H	ASP	I	142	11.981	45.525-130.292	1.00	0.00	H
ATOM	10159	CA	ASP	I	142	10.723	47.139-130.788	1.00	0.00	C
ATOM	10160	HA	ASP	I	142	9.705	46.824-130.548	1.00	0.00	H
ATOM	10161	C	ASP	I	142	10.643	48.198-131.910	1.00	0.00	C
ATOM	10162	O	ASP	I	142	11.534	48.329-132.755	1.00	0.00	O
ATOM	10163	CB	ASP	I	142	11.336	47.748-129.521	1.00	0.00	C
ATOM	10164	1HB	ASP	I	142	11.199	47.054-128.693	1.00	0.00	H
ATOM	10165	2HB	ASP	I	142	12.401	47.880-129.701	1.00	0.00	H
ATOM	10166	CG	ASP	I	142	10.757	49.108-129.152	1.00	0.00	C
ATOM	10167	OD1	ASP	I	142	9.514	49.239-129.143	1.00	0.00	O
ATOM	10168	OD2	ASP	I	142	11.548	50.063-128.985	1.00	0.00	O
ATOM	10169	N	LYS	I	143	9.565	48.994-131.898	1.00	0.00	N
ATOM	10170	H	LYS	I	143	8.947	48.880-131.095	1.00	0.00	H
ATOM	10171	CA	LYS	I	143	9.341	50.149-132.784	1.00	0.00	C
ATOM	10172	HA	LYS	I	143	10.303	50.432-133.210	1.00	0.00	H
ATOM	10173	C	LYS	I	143	8.843	51.417-132.055	1.00	0.00	C
ATOM	10174	O	LYS	I	143	8.557	52.399-132.737	1.00	0.00	O
ATOM	10175	CB	LYS	I	143	8.368	49.751-133.921	1.00	0.00	C
ATOM	10176	1HB	LYS	I	143	8.288	48.669-134.010	1.00	0.00	H
ATOM	10177	2HB	LYS	I	143	7.368	50.101-133.654	1.00	0.00	H
ATOM	10178	CG	LYS	I	143	8.751	50.361-135.285	1.00	0.00	C
ATOM	10179	1HG	LYS	I	143	7.832	50.678-135.781	1.00	0.00	H
ATOM	10180	2HG	LYS	I	143	9.349	51.259-135.127	1.00	0.00	H
ATOM	10181	CD	LYS	I	143	9.498	49.432-136.264	1.00	0.00	C
ATOM	10182	1HD	LYS	I	143	8.800	48.694-136.663	1.00	0.00	H
ATOM	10183	2HD	LYS	I	143	9.832	50.046-137.101	1.00	0.00	H
ATOM	10184	CE	LYS	I	143	10.724	48.721-135.674	1.00	0.00	C
ATOM	10185	1HE	LYS	I	143	11.473	48.579-136.458	1.00	0.00	H
ATOM	10186	2HE	LYS	I	143	11.166	49.360-134.903	1.00	0.00	H
ATOM	10187	NZ	LYS	I	143	10.370	47.406-135.090	1.00	0.00	N

ATOM	10188	1HZ	LYS	I	143	11.096	47.082-134.445	1.00	0.00	H
ATOM	10189	2HZ	LYS	I	143	10.203	46.682-135.771	1.00	0.00	H
ATOM	10190	3HZ	LYS	I	143	9.570	47.480-134.478	1.00	0.00	H
ATOM	10191	N	PHE	I	144	8.725	51.411-130.723	1.00	0.00	N
ATOM	10192	H	PHE	I	144	9.028	50.587-130.212	1.00	0.00	H
ATOM	10193	CA	PHE	I	144	8.104	52.493-129.941	1.00	0.00	C
ATOM	10194	HA	PHE	I	144	8.246	53.430-130.481	1.00	0.00	H
ATOM	10195	C	PHE	I	144	8.722	52.726-128.542	1.00	0.00	C
ATOM	10196	O	PHE	I	144	8.817	53.880-128.127	1.00	0.00	O
ATOM	10197	CB	PHE	I	144	6.578	52.237-129.859	1.00	0.00	C
ATOM	10198	1HB	PHE	I	144	6.073	53.076-130.340	1.00	0.00	H
ATOM	10199	2HB	PHE	I	144	6.312	51.351-130.438	1.00	0.00	H
ATOM	10200	CG	PHE	I	144	5.997	52.083-128.462	1.00	0.00	C
ATOM	10201	CD1	PHE	I	144	5.686	53.231-127.706	1.00	0.00	C
ATOM	10202	HD1	PHE	I	144	5.847	54.214-128.122	1.00	0.00	H
ATOM	10203	CD2	PHE	I	144	5.802	50.805-127.901	1.00	0.00	C
ATOM	10204	HD2	PHE	I	144	6.027	49.912-128.470	1.00	0.00	H
ATOM	10205	CE1	PHE	I	144	5.206	53.104-126.390	1.00	0.00	C
ATOM	10206	HE1	PHE	I	144	4.990	53.983-125.800	1.00	0.00	H
ATOM	10207	CE2	PHE	I	144	5.310	50.681-126.589	1.00	0.00	C
ATOM	10208	HE2	PHE	I	144	5.148	49.702-126.157	1.00	0.00	H
ATOM	10209	CZ	PHE	I	144	5.024	51.829-125.830	1.00	0.00	C
ATOM	10210	HZ	PHE	I	144	4.664	51.728-124.814	1.00	0.00	H
ATOM	10211	N	GLY	I	145	9.160	51.681-127.830	1.00	0.00	N
ATOM	10212	H	GLY	I	145	9.157	50.764-128.267	1.00	0.00	H
ATOM	10213	CA	GLY	I	145	9.541	51.768-126.413	1.00	0.00	C
ATOM	10214	1HA	GLY	I	145	10.289	52.549-126.278	1.00	0.00	H
ATOM	10215	2HA	GLY	I	145	8.646	52.059-125.865	1.00	0.00	H
ATOM	10216	C	GLY	I	145	10.057	50.469-125.771	1.00	0.00	C
ATOM	10217	O	GLY	I	145	11.046	50.505-125.038	1.00	0.00	O
ATOM	10218	N	GLN	I	146	9.466	49.324-126.121	1.00	0.00	N
ATOM	10219	H	GLN	I	146	8.727	49.399-126.805	1.00	0.00	H
ATOM	10220	CA	GLN	I	146	9.715	47.960-125.607	1.00	0.00	C
ATOM	10221	HA	GLN	I	146	9.424	47.918-124.557	1.00	0.00	H
ATOM	10222	C	GLN	I	146	11.185	47.472-125.700	1.00	0.00	C
ATOM	10223	O	GLN	I	146	11.989	48.074-126.419	1.00	0.00	O
ATOM	10224	CB	GLN	I	146	8.777	47.023-126.394	1.00	0.00	C
ATOM	10225	1HB	GLN	I	146	8.963	47.134-127.463	1.00	0.00	H
ATOM	10226	2HB	GLN	I	146	8.965	45.982-126.136	1.00	0.00	H
ATOM	10227	CG	GLN	I	146	7.303	47.338-126.101	1.00	0.00	C
ATOM	10228	1HG	GLN	I	146	7.107	47.221-125.037	1.00	0.00	H
ATOM	10229	2HG	GLN	I	146	7.073	48.365-126.377	1.00	0.00	H
ATOM	10230	CD	GLN	I	146	6.374	46.432-126.886	1.00	0.00	C
ATOM	10231	OE1	GLN	I	146	6.101	46.681-128.052	1.00	0.00	O
ATOM	10232	NE2	GLN	I	146	5.908	45.371-126.273	1.00	0.00	N
ATOM	10233	1HE2	GLN	I	146	5.176	44.808-126.726	1.00	0.00	H
ATOM	10234	2HE2	GLN	I	146	6.141	45.196-125.308	1.00	0.00	H
ATOM	10235	N	PRO	I	147	11.588	46.367-125.035	1.00	0.00	N
ATOM	10236	CA	PRO	I	147	12.901	45.734-125.206	1.00	0.00	C
ATOM	10237	HA	PRO	I	147	13.665	46.396-124.799	1.00	0.00	H
ATOM	10238	C	PRO	I	147	13.219	45.468-126.682	1.00	0.00	C
ATOM	10239	O	PRO	I	147	12.406	44.930-127.432	1.00	0.00	O
ATOM	10240	CB	PRO	I	147	12.872	44.450-124.367	1.00	0.00	C
ATOM	10241	1HB	PRO	I	147	13.303	43.602-124.901	1.00	0.00	H
ATOM	10242	2HB	PRO	I	147	13.403	44.625-123.431	1.00	0.00	H
ATOM	10243	CG	PRO	I	147	11.393	44.219-124.071	1.00	0.00	C
ATOM	10244	1HG	PRO	I	147	10.927	43.683-124.895	1.00	0.00	H
ATOM	10245	2HG	PRO	I	147	11.236	43.697-123.127	1.00	0.00	H
ATOM	10246	CD	PRO	I	147	10.839	45.633-124.034	1.00	0.00	C
ATOM	10247	1HD	PRO	I	147	9.768	45.624-124.217	1.00	0.00	H
ATOM	10248	2HD	PRO	I	147	11.048	46.064-123.057	1.00	0.00	H
ATOM	10249	N	LYS	I	148	14.416	45.857-127.128	1.00	0.00	N
ATOM	10250	H	LYS	I	148	15.134	46.066-126.442	1.00	0.00	H
ATOM	10251	CA	LYS	I	148	14.705	46.101-128.554	1.00	0.00	C
ATOM	10252	HA	LYS	I	148	13.787	46.459-129.009	1.00	0.00	H
ATOM	10253	C	LYS	I	148	15.020	44.823-129.358	1.00	0.00	C
ATOM	10254	O	LYS	I	148	15.498	44.890-130.489	1.00	0.00	O
ATOM	10255	CB	LYS	I	148	15.748	47.230-128.697	1.00	0.00	C
ATOM	10256	1HB	LYS	I	148	16.593	47.025-128.045	1.00	0.00	H
ATOM	10257	2HB	LYS	I	148	16.106	47.238-129.727	1.00	0.00	H
ATOM	10258	CG	LYS	I	148	15.215	48.649-128.400	1.00	0.00	C
ATOM	10259	1HG	LYS	I	148	15.876	49.362-128.895	1.00	0.00	H
ATOM	10260	2HG	LYS	I	148	14.226	48.765-128.838	1.00	0.00	H
ATOM	10261	CD	LYS	I	148	15.168	49.024-126.908	1.00	0.00	C
ATOM	10262	1HD	LYS	I	148	14.571	48.306-126.350	1.00	0.00	H
ATOM	10263	2HD	LYS	I	148	16.184	48.988-126.513	1.00	0.00	H
ATOM	10264	CE	LYS	I	148	14.599	50.431-126.663	1.00	0.00	C

ATOM	10265	1HE	LYS	I	148	14.821	50.703-125.627	1.00	0.00	H
ATOM	10266	2HE	LYS	I	148	15.098	51.146-127.321	1.00	0.00	H
ATOM	10267	NZ	LYS	I	148	13.131	50.491-126.856	1.00	0.00	N
ATOM	10268	1HZ	LYS	I	148	12.662	49.731-126.363	1.00	0.00	H
ATOM	10269	2HZ	LYS	I	148	12.818	50.367-127.823	1.00	0.00	H
ATOM	10270	3HZ	LYS	I	148	12.703	51.327-126.488	1.00	0.00	H
ATOM	10271	N	GLY	I	149	14.634	43.666-128.827	1.00	0.00	N
ATOM	10272	H	GLY	I	149	14.180	43.717-127.928	1.00	0.00	H
ATOM	10273	CA	GLY	I	149	14.732	42.360-129.476	1.00	0.00	C
ATOM	10274	1HA	GLY	I	149	14.285	42.408-130.468	1.00	0.00	H
ATOM	10275	2HA	GLY	I	149	15.785	42.096-129.586	1.00	0.00	H
ATOM	10276	C	GLY	I	149	14.031	41.241-128.705	1.00	0.00	C
ATOM	10277	O	GLY	I	149	14.587	40.149-128.636	1.00	0.00	O
ATOM	10278	N	PHE	I	150	12.882	41.498-128.059	1.00	0.00	N
ATOM	10279	H	PHE	I	150	12.396	42.370-128.220	1.00	0.00	H
ATOM	10280	CA	PHE	I	150	12.163	40.422-127.356	1.00	0.00	C
ATOM	10281	HA	PHE	I	150	12.876	39.968-126.670	1.00	0.00	H
ATOM	10282	C	PHE	I	150	11.749	39.300-128.319	1.00	0.00	C
ATOM	10283	O	PHE	I	150	11.529	39.529-129.508	1.00	0.00	O
ATOM	10284	CB	PHE	I	150	11.024	40.953-126.474	1.00	0.00	C
ATOM	10285	1HB	PHE	I	150	10.751	40.159-125.778	1.00	0.00	H
ATOM	10286	2HB	PHE	I	150	11.424	41.760-125.864	1.00	0.00	H
ATOM	10287	CG	PHE	I	150	9.745	41.428-127.142	1.00	0.00	C
ATOM	10288	CD1	PHE	I	150	9.573	42.785-127.479	1.00	0.00	C
ATOM	10289	HD1	PHE	I	150	10.381	43.486-127.351	1.00	0.00	H
ATOM	10290	CD2	PHE	I	150	8.665	40.535-127.295	1.00	0.00	C
ATOM	10291	HD2	PHE	I	150	8.775	39.496-127.020	1.00	0.00	H
ATOM	10292	CE1	PHE	I	150	8.329	43.248-127.946	1.00	0.00	C
ATOM	10293	HE1	PHE	I	150	8.185	44.294-128.180	1.00	0.00	H
ATOM	10294	CE2	PHE	I	150	7.419	41.001-127.751	1.00	0.00	C
ATOM	10295	HE2	PHE	I	150	6.574	40.328-127.817	1.00	0.00	H
ATOM	10296	CZ	PHE	I	150	7.248	42.360-128.067	1.00	0.00	C
ATOM	10297	HZ	PHE	I	150	6.274	42.726-128.371	1.00	0.00	H
ATOM	10298	N	ALA	I	151	11.761	38.061-127.836	1.00	0.00	N
ATOM	10299	H	ALA	I	151	11.870	37.934-126.834	1.00	0.00	H
ATOM	10300	CA	ALA	I	151	11.935	36.888-128.690	1.00	0.00	C
ATOM	10301	HA	ALA	I	151	11.428	37.042-129.642	1.00	0.00	H
ATOM	10302	C	ALA	I	151	11.349	35.616-128.062	1.00	0.00	C
ATOM	10303	O	ALA	I	151	10.867	35.626-126.930	1.00	0.00	O
ATOM	10304	CB	ALA	I	151	13.450	36.737-128.940	1.00	0.00	C
ATOM	10305	1HB	ALA	I	151	13.664	35.850-129.534	1.00	0.00	H
ATOM	10306	2HB	ALA	I	151	13.983	36.659-127.994	1.00	0.00	H
ATOM	10307	3HB	ALA	I	151	13.825	37.608-129.474	1.00	0.00	H
ATOM	10308	N	TYR	I	152	11.440	34.496-128.777	1.00	0.00	N
ATOM	10309	H	TYR	I	152	11.807	34.557-129.723	1.00	0.00	H
ATOM	10310	CA	TYR	I	152	11.294	33.163-128.195	1.00	0.00	C
ATOM	10311	HA	TYR	I	152	11.691	33.205-127.181	1.00	0.00	H
ATOM	10312	C	TYR	I	152	12.126	32.118-128.950	1.00	0.00	C
ATOM	10313	O	TYR	I	152	12.515	32.330-130.100	1.00	0.00	O
ATOM	10314	CB	TYR	I	152	9.807	32.771-128.099	1.00	0.00	C
ATOM	10315	1HB	TYR	I	152	9.730	31.813-127.584	1.00	0.00	H
ATOM	10316	2HB	TYR	I	152	9.295	33.500-127.473	1.00	0.00	H
ATOM	10317	CG	TYR	I	152	9.051	32.664-129.407	1.00	0.00	C
ATOM	10318	CD1	TYR	I	152	8.919	31.413-130.040	1.00	0.00	C
ATOM	10319	HD1	TYR	I	152	9.401	30.540-129.622	1.00	0.00	H
ATOM	10320	CD2	TYR	I	152	8.432	33.803-129.960	1.00	0.00	C
ATOM	10321	HD2	TYR	I	152	8.533	34.770-129.480	1.00	0.00	H
ATOM	10322	CE1	TYR	I	152	8.175	31.297-131.229	1.00	0.00	C
ATOM	10323	HE1	TYR	I	152	8.094	30.344-131.730	1.00	0.00	H
ATOM	10324	CE2	TYR	I	152	7.670	33.685-131.139	1.00	0.00	C
ATOM	10325	HE2	TYR	I	152	7.175	34.549-131.567	1.00	0.00	H
ATOM	10326	CZ	TYR	I	152	7.555	32.436-131.783	1.00	0.00	C
ATOM	10327	OH	TYR	I	152	6.868	32.338-132.947	1.00	0.00	O
ATOM	10328	HH	TYR	I	152	6.715	31.432-133.221	1.00	0.00	H
ATOM	10329	N	VAL	I	153	12.397	30.986-128.296	1.00	0.00	N
ATOM	10330	H	VAL	I	153	12.042	30.904-127.347	1.00	0.00	H
ATOM	10331	CA	VAL	I	153	13.175	29.841-128.818	1.00	0.00	C
ATOM	10332	HA	VAL	I	153	13.162	29.877-129.904	1.00	0.00	H
ATOM	10333	C	VAL	I	153	12.536	28.514-128.396	1.00	0.00	C
ATOM	10334	O	VAL	I	153	11.700	28.522-127.496	1.00	0.00	O
ATOM	10335	CB	VAL	I	153	14.645	29.882-128.340	1.00	0.00	C
ATOM	10336	HB	VAL	I	153	15.155	29.013-128.751	1.00	0.00	H
ATOM	10337	CG1	VAL	I	153	15.399	31.115-128.840	1.00	0.00	C
ATOM	10338	1HG1	VAL	I	153	14.981	32.025-128.410	1.00	0.00	H
ATOM	10339	2HG1	VAL	I	153	15.318	31.154-129.920	1.00	0.00	H
ATOM	10340	3HG1	VAL	I	153	16.452	31.039-128.570	1.00	0.00	H
ATOM	10341	CG2	VAL	I	153	14.786	29.834-126.814	1.00	0.00	C



ATOM	10342	1HG2	VAL	I	153	14.293	30.694-126.359	1.00	0.00	H
ATOM	10343	2HG2	VAL	I	153	15.837	29.844-126.536	1.00	0.00	H
ATOM	10344	3HG2	VAL	I	153	14.347	28.915-126.431	1.00	0.00	H
ATOM	10345	N	GLU	I	154	12.906	27.372-128.988	1.00	0.00	N
ATOM	10346	H	GLU	I	154	13.589	27.408-129.738	1.00	0.00	H
ATOM	10347	CA	GLU	I	154	12.324	26.057-128.636	1.00	0.00	C
ATOM	10348	HA	GLU	I	154	12.007	26.093-127.592	1.00	0.00	H
ATOM	10349	C	GLU	I	154	13.290	24.861-128.727	1.00	0.00	C
ATOM	10350	O	GLU	I	154	14.368	24.947-129.319	1.00	0.00	O
ATOM	10351	CB	GLU	I	154	11.051	25.797-129.478	1.00	0.00	C
ATOM	10352	1HB	GLU	I	154	10.556	24.898-129.112	1.00	0.00	H
ATOM	10353	2HB	GLU	I	154	10.366	26.624-129.303	1.00	0.00	H
ATOM	10354	CG	GLU	I	154	11.224	25.667-131.001	1.00	0.00	C
ATOM	10355	1HG	GLU	I	154	10.230	25.647-131.453	1.00	0.00	H
ATOM	10356	2HG	GLU	I	154	11.732	26.558-131.378	1.00	0.00	H
ATOM	10357	CD	GLU	I	154	11.981	24.405-131.439	1.00	0.00	C
ATOM	10358	OE1	GLU	I	154	13.008	24.562-132.131	1.00	0.00	O
ATOM	10359	OE2	GLU	I	154	11.568	23.274-131.092	1.00	0.00	O
ATOM	10360	N	PHE	I	155	12.857	23.715-128.188	1.00	0.00	N
ATOM	10361	H	PHE	I	155	11.974	23.738-127.692	1.00	0.00	H
ATOM	10362	CA	PHE	I	155	13.300	22.401-128.668	1.00	0.00	C
ATOM	10363	HA	PHE	I	155	13.542	22.499-129.729	1.00	0.00	H
ATOM	10364	C	PHE	I	155	12.179	21.360-128.526	1.00	0.00	C
ATOM	10365	O	PHE	I	155	11.689	21.103-127.422	1.00	0.00	O
ATOM	10366	CB	PHE	I	155	14.570	21.929-127.944	1.00	0.00	C
ATOM	10367	1HB	PHE	I	155	15.235	22.778-127.806	1.00	0.00	H
ATOM	10368	2HB	PHE	I	155	14.311	21.567-126.949	1.00	0.00	H
ATOM	10369	CG	PHE	I	155	15.318	20.845-128.707	1.00	0.00	C
ATOM	10370	CD1	PHE	I	155	16.403	21.188-129.534	1.00	0.00	C
ATOM	10371	HD1	PHE	I	155	16.699	22.219-129.622	1.00	0.00	H
ATOM	10372	CD2	PHE	I	155	14.921	19.497-128.620	1.00	0.00	C
ATOM	10373	HD2	PHE	I	155	14.095	19.226-127.979	1.00	0.00	H
ATOM	10374	CE1	PHE	I	155	17.094	20.200-130.258	1.00	0.00	C
ATOM	10375	HE1	PHE	I	155	17.916	20.477-130.905	1.00	0.00	H
ATOM	10376	CE2	PHE	I	155	15.613	18.503-129.337	1.00	0.00	C
ATOM	10377	HE2	PHE	I	155	15.317	17.466-129.261	1.00	0.00	H
ATOM	10378	CZ	PHE	I	155	16.699	18.856-130.156	1.00	0.00	C
ATOM	10379	HZ	PHE	I	155	17.224	18.093-130.715	1.00	0.00	H
ATOM	10380	N	VAL	I	156	11.793	20.732-129.638	1.00	0.00	N
ATOM	10381	H	VAL	I	156	12.087	21.182-130.501	1.00	0.00	H
ATOM	10382	CA	VAL	I	156	10.691	19.754-129.735	1.00	0.00	C
ATOM	10383	HA	VAL	I	156	9.761	20.315-129.633	1.00	0.00	H
ATOM	10384	C	VAL	I	156	10.688	18.688-128.626	1.00	0.00	C
ATOM	10385	O	VAL	I	156	9.679	18.543-127.937	1.00	0.00	O
ATOM	10386	CB	VAL	I	156	10.672	19.091-131.130	1.00	0.00	C
ATOM	10387	HB	VAL	I	156	11.579	18.496-131.254	1.00	0.00	H
ATOM	10388	CG1	VAL	I	156	9.459	18.165-131.302	1.00	0.00	C
ATOM	10389	1HG1	VAL	I	156	9.502	17.343-130.588	1.00	0.00	H
ATOM	10390	2HG1	VAL	I	156	9.459	17.740-132.306	1.00	0.00	H
ATOM	10391	3HG1	VAL	I	156	8.538	18.728-131.152	1.00	0.00	H
ATOM	10392	CG2	VAL	I	156	10.619	20.127-132.262	1.00	0.00	C
ATOM	10393	1HG2	VAL	I	156	9.764	20.791-132.126	1.00	0.00	H
ATOM	10394	2HG2	VAL	I	156	10.539	19.629-133.228	1.00	0.00	H
ATOM	10395	3HG2	VAL	I	156	11.526	20.732-132.272	1.00	0.00	H
ATOM	10396	N	GLU	I	157	11.785	17.952-128.409	1.00	0.00	N
ATOM	10397	H	GLU	I	157	12.606	18.130-128.967	1.00	0.00	H
ATOM	10398	CA	GLU	I	157	11.854	16.935-127.343	1.00	0.00	C
ATOM	10399	HA	GLU	I	157	10.945	16.334-127.400	1.00	0.00	H
ATOM	10400	C	GLU	I	157	11.896	17.541-125.929	1.00	0.00	C
ATOM	10401	O	GLU	I	157	12.534	18.565-125.691	1.00	0.00	O
ATOM	10402	CB	GLU	I	157	13.042	15.982-127.528	1.00	0.00	C
ATOM	10403	1HB	GLU	I	157	13.973	16.544-127.590	1.00	0.00	H
ATOM	10404	2HB	GLU	I	157	13.092	15.345-126.643	1.00	0.00	H
ATOM	10405	CG	GLU	I	157	12.876	15.088-128.764	1.00	0.00	C
ATOM	10406	1HG	GLU	I	157	11.815	14.877-128.920	1.00	0.00	H
ATOM	10407	2HG	GLU	I	157	13.242	15.619-129.646	1.00	0.00	H
ATOM	10408	CD	GLU	I	157	13.616	13.759-128.574	1.00	0.00	C
ATOM	10409	OE1	GLU	I	157	14.744	13.634-129.099	1.00	0.00	O
ATOM	10410	OE2	GLU	I	157	13.038	12.883-127.889	1.00	0.00	O
ATOM	10411	N	ILE	I	158	11.212	16.883-124.984	1.00	0.00	N
ATOM	10412	H	ILE	I	158	10.770	16.020-125.261	1.00	0.00	H
ATOM	10413	CA	ILE	I	158	10.830	17.436-123.672	1.00	0.00	C
ATOM	10414	HA	ILE	I	158	10.161	18.274-123.842	1.00	0.00	H
ATOM	10415	C	ILE	I	158	12.029	17.998-122.891	1.00	0.00	C
ATOM	10416	O	ILE	I	158	12.043	19.190-122.574	1.00	0.00	O
ATOM	10417	CB	ILE	I	158	10.013	16.398-122.857	1.00	0.00	C
ATOM	10418	HB	ILE	I	158	10.528	15.436-122.890	1.00	0.00	H

ATOM	10419	CG1	ILE	I	158	8.568	16.210-123.387	1.00	0.00	C
ATOM	10420	1HG1	ILE	I	158	8.055	15.502-122.735	1.00	0.00	H
ATOM	10421	2HG1	ILE	I	158	8.036	17.161-123.323	1.00	0.00	H
ATOM	10422	CG2	ILE	I	158	9.873	16.806-121.375	1.00	0.00	C
ATOM	10423	1HG2	ILE	I	158	10.842	16.801-120.874	1.00	0.00	H
ATOM	10424	2HG2	ILE	I	158	9.233	16.100-120.845	1.00	0.00	H
ATOM	10425	3HG2	ILE	I	158	9.440	17.805-121.296	1.00	0.00	H
ATOM	10426	CD1	ILE	I	158	8.424	15.676-124.819	1.00	0.00	C
ATOM	10427	1HD1	ILE	I	158	8.693	16.446-125.542	1.00	0.00	H
ATOM	10428	2HD1	ILE	I	158	7.384	15.399-124.993	1.00	0.00	H
ATOM	10429	3HD1	ILE	I	158	9.052	14.796-124.956	1.00	0.00	H
ATOM	10430	N	ASP	I	159	13.016	17.149-122.585	1.00	0.00	N
ATOM	10431	H	ASP	I	159	12.959	16.201-122.917	1.00	0.00	H
ATOM	10432	CA	ASP	I	159	14.083	17.476-121.627	1.00	0.00	C
ATOM	10433	HA	ASP	I	159	13.610	17.902-120.743	1.00	0.00	H
ATOM	10434	C	ASP	I	159	15.096	18.507-122.154	1.00	0.00	C
ATOM	10435	O	ASP	I	159	15.686	19.259-121.383	1.00	0.00	O
ATOM	10436	CB	ASP	I	159	14.801	16.192-121.190	1.00	0.00	C
ATOM	10437	1HB	ASP	I	159	14.057	15.440-120.920	1.00	0.00	H
ATOM	10438	2HB	ASP	I	159	15.393	15.805-122.021	1.00	0.00	H
ATOM	10439	CG	ASP	I	159	15.695	16.447-119.971	1.00	0.00	C
ATOM	10440	OD1	ASP	I	159	16.911	16.183-120.066	1.00	0.00	O
ATOM	10441	OD2	ASP	I	159	15.137	16.898-118.946	1.00	0.00	O
ATOM	10442	N	ALA	I	160	15.258	18.606-123.473	1.00	0.00	N
ATOM	10443	H	ALA	I	160	14.701	18.016-124.071	1.00	0.00	H
ATOM	10444	CA	ALA	I	160	16.148	19.580-124.099	1.00	0.00	C
ATOM	10445	HA	ALA	I	160	17.178	19.374-123.804	1.00	0.00	H
ATOM	10446	C	ALA	I	160	15.818	21.019-123.668	1.00	0.00	C
ATOM	10447	O	ALA	I	160	16.662	21.707-123.088	1.00	0.00	O
ATOM	10448	CB	ALA	I	160	16.016	19.399-125.606	1.00	0.00	C
ATOM	10449	1HB	ALA	I	160	16.528	20.214-126.110	1.00	0.00	H
ATOM	10450	2HB	ALA	I	160	14.966	19.430-125.885	1.00	0.00	H
ATOM	10451	3HB	ALA	I	160	16.446	18.445-125.914	1.00	0.00	H
ATOM	10452	N	VAL	I	161	14.556	21.437-123.847	1.00	0.00	N
ATOM	10453	H	VAL	I	161	13.907	20.825-124.322	1.00	0.00	H
ATOM	10454	CA	VAL	I	161	14.107	22.751-123.367	1.00	0.00	C
ATOM	10455	HA	VAL	I	161	14.882	23.455-123.662	1.00	0.00	H
ATOM	10456	C	VAL	I	161	14.032	22.820-121.837	1.00	0.00	C
ATOM	10457	O	VAL	I	161	14.222	23.894-121.285	1.00	0.00	O
ATOM	10458	CB	VAL	I	161	12.804	23.217-124.054	1.00	0.00	C
ATOM	10459	HB	VAL	I	161	12.731	22.726-125.026	1.00	0.00	H
ATOM	10460	CG1	VAL	I	161	11.527	22.900-123.266	1.00	0.00	C
ATOM	10461	1HG1	VAL	I	161	11.468	23.529-122.377	1.00	0.00	H
ATOM	10462	2HG1	VAL	I	161	11.525	21.856-122.963	1.00	0.00	H
ATOM	10463	3HG1	VAL	I	161	10.663	23.118-123.894	1.00	0.00	H
ATOM	10464	CG2	VAL	I	161	12.847	24.728-124.310	1.00	0.00	C
ATOM	10465	1HG2	VAL	I	161	12.947	25.268-123.368	1.00	0.00	H
ATOM	10466	2HG2	VAL	I	161	11.932	25.048-124.809	1.00	0.00	H
ATOM	10467	3HG2	VAL	I	161	13.693	24.971-124.954	1.00	0.00	H
ATOM	10468	N	GLN	I	162	13.815	21.699-121.134	1.00	0.00	N
ATOM	10469	H	GLN	I	162	13.697	20.830-121.635	1.00	0.00	H
ATOM	10470	CA	GLN	I	162	13.839	21.647-119.661	1.00	0.00	C
ATOM	10471	HA	GLN	I	162	13.131	22.386-119.287	1.00	0.00	H
ATOM	10472	C	GLN	I	162	15.217	22.010-119.076	1.00	0.00	C
ATOM	10473	O	GLN	I	162	15.285	22.612-118.008	1.00	0.00	O
ATOM	10474	CB	GLN	I	162	13.367	20.261-119.191	1.00	0.00	C
ATOM	10475	1HB	GLN	I	162	12.438	20.013-119.709	1.00	0.00	H
ATOM	10476	2HB	GLN	I	162	14.122	19.523-119.446	1.00	0.00	H
ATOM	10477	CG	GLN	I	162	13.120	20.169-117.679	1.00	0.00	C
ATOM	10478	1HG	GLN	I	162	14.075	20.202-117.152	1.00	0.00	H
ATOM	10479	2HG	GLN	I	162	12.516	21.018-117.359	1.00	0.00	H
ATOM	10480	CD	GLN	I	162	12.391	18.882-117.297	1.00	0.00	C
ATOM	10481	OE1	GLN	I	162	11.259	18.893-116.839	1.00	0.00	O
ATOM	10482	NE2	GLN	I	162	12.968	17.717-117.481	1.00	0.00	N
ATOM	10483	1HE2	GLN	I	162	12.455	16.908-117.202	1.00	0.00	H
ATOM	10484	2HE2	GLN	I	162	13.891	17.622-117.925	1.00	0.00	H
ATOM	10485	N	ASN	I	163	16.304	21.709-119.793	1.00	0.00	N
ATOM	10486	H	ASN	I	163	16.180	21.155-120.632	1.00	0.00	H
ATOM	10487	CA	ASN	I	163	17.644	22.210-119.476	1.00	0.00	C
ATOM	10488	HA	ASN	I	163	17.782	22.228-118.392	1.00	0.00	H
ATOM	10489	C	ASN	I	163	17.827	23.657-119.980	1.00	0.00	C
ATOM	10490	O	ASN	I	163	18.243	24.530-119.219	1.00	0.00	O
ATOM	10491	CB	ASN	I	163	18.695	21.261-120.085	1.00	0.00	C
ATOM	10492	1HB	ASN	I	163	18.487	21.096-121.141	1.00	0.00	H
ATOM	10493	2HB	ASN	I	163	19.677	21.729-120.003	1.00	0.00	H
ATOM	10494	CG	ASN	I	163	18.782	19.916-119.375	1.00	0.00	C
ATOM	10495	OD1	ASN	I	163	19.611	19.709-118.506	1.00	0.00	O

ATOM	10496	ND2	ASN	I	163	17.955	18.967-119.744	1.00	0.00	N
ATOM	10497	1HD2	ASN	I	163	17.997	18.054-119.308	1.00	0.00	H
ATOM	10498	2HD2	ASN	I	163	17.215	19.139-120.409	1.00	0.00	H
ATOM	10499	N	ALA	I	164	17.479	23.943-121.243	1.00	0.00	N
ATOM	10500	H	ALA	I	164	17.135	23.194-121.834	1.00	0.00	H
ATOM	10501	CA	ALA	I	164	17.673	25.268-121.850	1.00	0.00	C
ATOM	10502	HA	ALA	I	164	18.732	25.521-121.768	1.00	0.00	H
ATOM	10503	C	ALA	I	164	16.887	26.409-121.164	1.00	0.00	C
ATOM	10504	O	ALA	I	164	17.316	27.561-121.211	1.00	0.00	O
ATOM	10505	CB	ALA	I	164	17.328	25.190-123.343	1.00	0.00	C
ATOM	10506	1HB	ALA	I	164	17.671	26.098-123.841	1.00	0.00	H
ATOM	10507	2HB	ALA	I	164	16.250	25.108-123.473	1.00	0.00	H
ATOM	10508	3HB	ALA	I	164	17.819	24.333-123.804	1.00	0.00	H
ATOM	10509	N	LEU	I	165	15.757	26.109-120.507	1.00	0.00	N
ATOM	10510	H	LEU	I	165	15.408	25.159-120.573	1.00	0.00	H
ATOM	10511	CA	LEU	I	165	14.955	27.079-119.750	1.00	0.00	C
ATOM	10512	HA	LEU	I	165	14.949	28.002-120.327	1.00	0.00	H
ATOM	10513	C	LEU	I	165	15.539	27.444-118.376	1.00	0.00	C
ATOM	10514	O	LEU	I	165	15.045	28.390-117.768	1.00	0.00	O
ATOM	10515	CB	LEU	I	165	13.480	26.621-119.673	1.00	0.00	C
ATOM	10516	1HB	LEU	I	165	12.868	27.487-119.415	1.00	0.00	H
ATOM	10517	2HB	LEU	I	165	13.196	26.323-120.682	1.00	0.00	H
ATOM	10518	CG	LEU	I	165	13.114	25.471-118.709	1.00	0.00	C
ATOM	10519	HG	LEU	I	165	13.889	24.709-118.740	1.00	0.00	H
ATOM	10520	CD1	LEU	I	165	12.893	25.909-117.257	1.00	0.00	C
ATOM	10521	1HD1	LEU	I	165	13.810	26.295-116.823	1.00	0.00	H
ATOM	10522	2HD1	LEU	I	165	12.582	25.055-116.656	1.00	0.00	H
ATOM	10523	3HD1	LEU	I	165	12.131	26.686-117.208	1.00	0.00	H
ATOM	10524	CD2	LEU	I	165	11.785	24.847-119.153	1.00	0.00	C
ATOM	10525	1HD2	LEU	I	165	10.995	25.598-119.128	1.00	0.00	H
ATOM	10526	2HD2	LEU	I	165	11.523	24.023-118.490	1.00	0.00	H
ATOM	10527	3HD2	LEU	I	165	11.881	24.464-120.166	1.00	0.00	H
ATOM	10528	N	LEU	I	166	16.576	26.740-117.905	1.00	0.00	N
ATOM	10529	H	LEU	I	166	16.943	26.000-118.492	1.00	0.00	H
ATOM	10530	CA	LEU	I	166	17.014	26.738-116.500	1.00	0.00	C
ATOM	10531	HA	LEU	I	166	16.416	27.464-115.948	1.00	0.00	H
ATOM	10532	C	LEU	I	166	18.492	27.143-116.303	1.00	0.00	C
ATOM	10533	O	LEU	I	166	18.979	27.186-115.177	1.00	0.00	O
ATOM	10534	CB	LEU	I	166	16.710	25.320-115.962	1.00	0.00	C
ATOM	10535	1HB	LEU	I	166	15.694	25.054-116.253	1.00	0.00	H
ATOM	10536	2HB	LEU	I	166	17.378	24.616-116.462	1.00	0.00	H
ATOM	10537	CG	LEU	I	166	16.828	25.097-114.441	1.00	0.00	C
ATOM	10538	HG	LEU	I	166	17.863	25.204-114.124	1.00	0.00	H
ATOM	10539	CD1	LEU	I	166	15.951	26.056-113.634	1.00	0.00	C
ATOM	10540	1HD1	LEU	I	166	16.325	27.075-113.745	1.00	0.00	H
ATOM	10541	2HD1	LEU	I	166	15.994	25.797-112.577	1.00	0.00	H
ATOM	10542	3HD1	LEU	I	166	14.920	26.009-113.982	1.00	0.00	H
ATOM	10543	CD2	LEU	I	166	16.390	23.668-114.111	1.00	0.00	C
ATOM	10544	1HD2	LEU	I	166	16.512	23.483-113.045	1.00	0.00	H
ATOM	10545	2HD2	LEU	I	166	17.008	22.961-114.666	1.00	0.00	H
ATOM	10546	3HD2	LEU	I	166	15.346	23.523-114.391	1.00	0.00	H
ATOM	10547	N	LEU	I	167	19.220	27.425-117.388	1.00	0.00	N
ATOM	10548	H	LEU	I	167	18.740	27.387-118.274	1.00	0.00	H
ATOM	10549	CA	LEU	I	167	20.689	27.548-117.413	1.00	0.00	C
ATOM	10550	HA	LEU	I	167	21.057	27.707-116.399	1.00	0.00	H
ATOM	10551	C	LEU	I	167	21.146	28.773-118.239	1.00	0.00	C
ATOM	10552	O	LEU	I	167	22.078	28.687-119.037	1.00	0.00	O
ATOM	10553	CB	LEU	I	167	21.278	26.225-117.957	1.00	0.00	C
ATOM	10554	1HB	LEU	I	167	20.907	26.088-118.974	1.00	0.00	H
ATOM	10555	2HB	LEU	I	167	22.362	26.329-118.005	1.00	0.00	H
ATOM	10556	CG	LEU	I	167	20.967	24.947-117.153	1.00	0.00	C
ATOM	10557	HG	LEU	I	167	19.893	24.834-117.024	1.00	0.00	H
ATOM	10558	CD1	LEU	I	167	21.481	23.725-117.917	1.00	0.00	C
ATOM	10559	1HD1	LEU	I	167	21.233	22.815-117.372	1.00	0.00	H
ATOM	10560	2HD1	LEU	I	167	22.561	23.787-118.053	1.00	0.00	H
ATOM	10561	3HD1	LEU	I	167	21.005	23.682-118.896	1.00	0.00	H
ATOM	10562	CD2	LEU	I	167	21.634	24.955-115.775	1.00	0.00	C
ATOM	10563	1HD2	LEU	I	167	21.417	24.020-115.260	1.00	0.00	H
ATOM	10564	2HD2	LEU	I	167	21.236	25.775-115.178	1.00	0.00	H
ATOM	10565	3HD2	LEU	I	167	22.712	25.074-115.881	1.00	0.00	H
ATOM	10566	N	ASN	I	168	20.412	29.886-118.133	1.00	0.00	N
ATOM	10567	H	ASN	I	168	19.670	29.880-117.444	1.00	0.00	H
ATOM	10568	CA	ASN	I	168	20.272	30.858-119.227	1.00	0.00	C
ATOM	10569	HA	ASN	I	168	21.126	30.775-119.902	1.00	0.00	H
ATOM	10570	C	ASN	I	168	20.193	32.348-118.821	1.00	0.00	C
ATOM	10571	O	ASN	I	168	20.795	33.188-119.483	1.00	0.00	O
ATOM	10572	CB	ASN	I	168	18.999	30.448-120.001	1.00	0.00	C

ATOM	10573	1HB	ASN	I	168	18.809	31.175-120.784	1.00	0.00	H
ATOM	10574	2HB	ASN	I	168	19.171	29.483-120.478	1.00	0.00	H
ATOM	10575	CG	ASN	I	168	17.734	30.340-119.154	1.00	0.00	C
ATOM	10576	OD1	ASN	I	168	17.701	30.572-117.958	1.00	0.00	O
ATOM	10577	ND2	ASN	I	168	16.644	29.933-119.735	1.00	0.00	N
ATOM	10578	1HD2	ASN	I	168	15.870	29.777-119.101	1.00	0.00	H
ATOM	10579	2HD2	ASN	I	168	16.710	29.492-120.642	1.00	0.00	H
ATOM	10580	N	GLU	I	169	19.444	32.699-117.775	1.00	0.00	N
ATOM	10581	H	GLU	I	169	18.951	31.949-117.303	1.00	0.00	H
ATOM	10582	CA	GLU	I	169	18.931	34.058-117.516	1.00	0.00	C
ATOM	10583	HA	GLU	I	169	18.582	34.461-118.468	1.00	0.00	H
ATOM	10584	C	GLU	I	169	19.953	35.095-116.995	1.00	0.00	C
ATOM	10585	O	GLU	I	169	19.571	36.099-116.390	1.00	0.00	O
ATOM	10586	CB	GLU	I	169	17.699	33.944-116.598	1.00	0.00	C
ATOM	10587	1HB	GLU	I	169	17.209	34.912-116.556	1.00	0.00	H
ATOM	10588	2HB	GLU	I	169	16.984	33.252-117.048	1.00	0.00	H
ATOM	10589	CG	GLU	I	169	18.009	33.477-115.167	1.00	0.00	C
ATOM	10590	1HG	GLU	I	169	18.264	32.415-115.177	1.00	0.00	H
ATOM	10591	2HG	GLU	I	169	18.864	34.028-114.771	1.00	0.00	H
ATOM	10592	CD	GLU	I	169	16.800	33.722-114.262	1.00	0.00	C
ATOM	10593	OE1	GLU	I	169	15.812	32.962-114.359	1.00	0.00	O
ATOM	10594	OE2	GLU	I	169	16.803	34.721-113.508	1.00	0.00	O
ATOM	10595	N	THR	I	170	21.250	34.858-117.203	1.00	0.00	N
ATOM	10596	H	THR	I	170	21.478	34.027-117.731	1.00	0.00	H
ATOM	10597	CA	THR	I	170	22.342	35.628-116.582	1.00	0.00	C
ATOM	10598	HA	THR	I	170	21.931	36.557-116.204	1.00	0.00	H
ATOM	10599	C	THR	I	170	23.451	36.029-117.574	1.00	0.00	C
ATOM	10600	O	THR	I	170	24.264	36.884-117.235	1.00	0.00	O
ATOM	10601	CB	THR	I	170	22.891	34.887-115.344	1.00	0.00	C
ATOM	10602	HB	THR	I	170	23.464	34.021-115.677	1.00	0.00	H
ATOM	10603	OG1	THR	I	170	21.835	34.430-114.525	1.00	0.00	O
ATOM	10604	HG1	THR	I	170	21.405	35.204-114.107	1.00	0.00	H
ATOM	10605	CG2	THR	I	170	23.766	35.739-114.423	1.00	0.00	C
ATOM	10606	1HG2	THR	I	170	24.710	35.974-114.913	1.00	0.00	H
ATOM	10607	2HG2	THR	I	170	23.983	35.184-113.510	1.00	0.00	H
ATOM	10608	3HG2	THR	I	170	23.248	36.662-114.165	1.00	0.00	H
ATOM	10609	N	GLU	I	171	23.470	35.516-118.816	1.00	0.00	N
ATOM	10610	H	GLU	I	171	22.771	34.839-119.091	1.00	0.00	H
ATOM	10611	CA	GLU	I	171	24.401	35.997-119.859	1.00	0.00	C
ATOM	10612	HA	GLU	I	171	24.519	37.073-119.719	1.00	0.00	H
ATOM	10613	C	GLU	I	171	23.873	35.785-121.295	1.00	0.00	C
ATOM	10614	O	GLU	I	171	23.723	34.657-121.774	1.00	0.00	O
ATOM	10615	CB	GLU	I	171	25.800	35.357-119.690	1.00	0.00	C
ATOM	10616	1HB	GLU	I	171	25.887	34.938-118.686	1.00	0.00	H
ATOM	10617	2HB	GLU	I	171	25.932	34.534-120.393	1.00	0.00	H
ATOM	10618	CG	GLU	I	171	26.952	36.364-119.859	1.00	0.00	C
ATOM	10619	1HG	GLU	I	171	26.852	37.143-119.099	1.00	0.00	H
ATOM	10620	2HG	GLU	I	171	27.893	35.843-119.665	1.00	0.00	H
ATOM	10621	CD	GLU	I	171	27.003	37.015-121.248	1.00	0.00	C
ATOM	10622	OE1	GLU	I	171	27.819	36.584-122.089	1.00	0.00	O
ATOM	10623	OE2	GLU	I	171	26.227	37.968-121.482	1.00	0.00	O
ATOM	10624	N	LEU	I	172	23.631	36.895-121.993	1.00	0.00	N
ATOM	10625	H	LEU	I	172	23.831	37.779-121.528	1.00	0.00	H
ATOM	10626	CA	LEU	I	172	23.316	36.991-123.413	1.00	0.00	C
ATOM	10627	HA	LEU	I	172	23.703	36.114-123.921	1.00	0.00	H
ATOM	10628	C	LEU	I	172	23.988	38.256-123.980	1.00	0.00	C
ATOM	10629	O	LEU	I	172	23.715	39.365-123.513	1.00	0.00	O
ATOM	10630	CB	LEU	I	172	21.782	37.057-123.587	1.00	0.00	C
ATOM	10631	1HB	LEU	I	172	21.299	36.566-122.740	1.00	0.00	H
ATOM	10632	2HB	LEU	I	172	21.485	38.102-123.554	1.00	0.00	H
ATOM	10633	CG	LEU	I	172	21.216	36.437-124.878	1.00	0.00	C
ATOM	10634	HG	LEU	I	172	20.203	36.813-125.020	1.00	0.00	H
ATOM	10635	CD1	LEU	I	172	22.018	36.778-126.133	1.00	0.00	C
ATOM	10636	1HD1	LEU	I	172	22.995	36.301-126.108	1.00	0.00	H
ATOM	10637	2HD1	LEU	I	172	22.138	37.857-126.203	1.00	0.00	H
ATOM	10638	3HD1	LEU	I	172	21.495	36.431-127.019	1.00	0.00	H
ATOM	10639	CD2	LEU	I	172	21.127	34.924-124.729	1.00	0.00	C
ATOM	10640	1HD2	LEU	I	172	20.769	34.465-125.649	1.00	0.00	H
ATOM	10641	2HD2	LEU	I	172	20.437	34.685-123.923	1.00	0.00	H
ATOM	10642	3HD2	LEU	I	172	22.104	34.529-124.467	1.00	0.00	H
ATOM	10643	N	HIS	I	173	24.816	38.125-125.023	1.00	0.00	N
ATOM	10644	H	HIS	I	173	25.050	37.192-125.347	1.00	0.00	H
ATOM	10645	CA	HIS	I	173	25.415	39.266-125.737	1.00	0.00	C
ATOM	10646	HA	HIS	I	173	26.103	38.853-126.477	1.00	0.00	H
ATOM	10647	C	HIS	I	173	26.282	40.179-124.819	1.00	0.00	C
ATOM	10648	O	HIS	I	173	26.529	41.346-125.130	1.00	0.00	O
ATOM	10649	CB	HIS	I	173	24.272	39.961-126.527	1.00	0.00	C

ATOM	10650	1HB	HIS	I	173	23.825	39.216-127.187	1.00	0.00	H
ATOM	10651	2HB	HIS	I	173	23.496	40.285-125.836	1.00	0.00	H
ATOM	10652	CG	HIS	I	173	24.627	41.147-127.386	1.00	0.00	C
ATOM	10653	ND1	HIS	I	173	25.261	41.121-128.601	1.00	0.00	N
ATOM	10654	HD1	HIS	I	173	25.496	40.264-129.123	1.00	0.00	H
ATOM	10655	CD2	HIS	I	173	24.244	42.439-127.172	1.00	0.00	C
ATOM	10656	HD2	HIS	I	173	23.660	42.781-126.330	1.00	0.00	H
ATOM	10657	CE1	HIS	I	173	25.287	42.368-129.093	1.00	0.00	C
ATOM	10658	HE1	HIS	I	173	25.655	42.627-130.078	1.00	0.00	H
ATOM	10659	NE2	HIS	I	173	24.724	43.232-128.225	1.00	0.00	N
ATOM	10660	N	GLY	I	174	26.758	39.689-123.666	1.00	0.00	N
ATOM	10661	H	GLY	I	174	26.507	38.742-123.385	1.00	0.00	H
ATOM	10662	CA	GLY	I	174	27.576	40.436-122.698	1.00	0.00	C
ATOM	10663	1HA	GLY	I	174	28.217	39.719-122.185	1.00	0.00	H
ATOM	10664	2HA	GLY	I	174	28.209	41.154-123.218	1.00	0.00	H
ATOM	10665	C	GLY	I	174	26.767	41.178-121.622	1.00	0.00	C
ATOM	10666	O	GLY	I	174	27.244	42.182-121.087	1.00	0.00	O
ATOM	10667	N	ARG	I	175	25.523	40.761-121.360	1.00	0.00	N
ATOM	10668	H	ARG	I	175	25.262	39.865-121.776	1.00	0.00	H
ATOM	10669	CA	ARG	I	175	24.558	41.362-120.419	1.00	0.00	C
ATOM	10670	HA	ARG	I	175	25.090	41.866-119.613	1.00	0.00	H
ATOM	10671	C	ARG	I	175	23.680	40.251-119.822	1.00	0.00	C
ATOM	10672	O	ARG	I	175	23.392	39.281-120.513	1.00	0.00	O
ATOM	10673	CB	ARG	I	175	23.626	42.353-121.156	1.00	0.00	C
ATOM	10674	1HB	ARG	I	175	23.069	41.811-121.924	1.00	0.00	H
ATOM	10675	2HB	ARG	I	175	22.891	42.702-120.429	1.00	0.00	H
ATOM	10676	CG	ARG	I	175	24.243	43.614-121.798	1.00	0.00	C
ATOM	10677	1HG	ARG	I	175	23.423	44.318-121.950	1.00	0.00	H
ATOM	10678	2HG	ARG	I	175	24.949	44.073-121.106	1.00	0.00	H
ATOM	10679	CD	ARG	I	175	24.929	43.385-123.158	1.00	0.00	C
ATOM	10680	1HD	ARG	I	175	25.998	43.251-123.001	1.00	0.00	H
ATOM	10681	2HD	ARG	I	175	24.529	42.474-123.610	1.00	0.00	H
ATOM	10682	NE	ARG	I	175	24.709	44.510-124.090	1.00	0.00	N
ATOM	10683	HE	ARG	I	175	23.864	45.066-123.959	1.00	0.00	H
ATOM	10684	CZ	ARG	I	175	25.298	44.699-125.255	1.00	0.00	C
ATOM	10685	NH1	ARG	I	175	26.313	44.000-125.666	1.00	0.00	N
ATOM	10686	1HH1	ARG	I	175	26.522	43.148-125.152	1.00	0.00	H
ATOM	10687	2HH1	ARG	I	175	26.467	43.962-126.656	1.00	0.00	H
ATOM	10688	NH2	ARG	I	175	24.815	45.556-126.099	1.00	0.00	N
ATOM	10689	1HH2	ARG	I	175	23.891	45.939-125.877	1.00	0.00	H
ATOM	10690	2HH2	ARG	I	175	25.006	45.399-127.070	1.00	0.00	H
ATOM	10691	N	GLN	I	176	23.155	40.400-118.599	1.00	0.00	N
ATOM	10692	H	GLN	I	176	23.354	41.229-118.070	1.00	0.00	H
ATOM	10693	CA	GLN	I	176	22.016	39.552-118.204	1.00	0.00	C
ATOM	10694	HA	GLN	I	176	22.173	38.565-118.644	1.00	0.00	H
ATOM	10695	C	GLN	I	176	20.700	40.083-118.791	1.00	0.00	C
ATOM	10696	O	GLN	I	176	20.487	41.292-118.877	1.00	0.00	O
ATOM	10697	CB	GLN	I	176	21.921	39.277-116.693	1.00	0.00	C
ATOM	10698	1HB	GLN	I	176	21.169	38.494-116.592	1.00	0.00	H
ATOM	10699	2HB	GLN	I	176	22.870	38.869-116.348	1.00	0.00	H
ATOM	10700	CG	GLN	I	176	21.504	40.399-115.733	1.00	0.00	C
ATOM	10701	1HG	GLN	I	176	22.363	41.031-115.506	1.00	0.00	H
ATOM	10702	2HG	GLN	I	176	20.723	41.009-116.185	1.00	0.00	H
ATOM	10703	CD	GLN	I	176	20.948	39.785-114.444	1.00	0.00	C
ATOM	10704	OE1	GLN	I	176	19.753	39.819-114.197	1.00	0.00	O
ATOM	10705	NE2	GLN	I	176	21.770	39.160-113.627	1.00	0.00	N
ATOM	10706	1HE2	GLN	I	176	21.368	38.574-112.889	1.00	0.00	H
ATOM	10707	2HE2	GLN	I	176	22.738	39.049-113.850	1.00	0.00	H
ATOM	10708	N	LEU	I	177	19.817	39.158-119.163	1.00	0.00	N
ATOM	10709	H	LEU	I	177	20.067	38.187-119.026	1.00	0.00	H
ATOM	10710	CA	LEU	I	177	18.435	39.388-119.587	1.00	0.00	C
ATOM	10711	HA	LEU	I	177	18.020	40.196-118.982	1.00	0.00	H
ATOM	10712	C	LEU	I	177	17.610	38.127-119.277	1.00	0.00	C
ATOM	10713	O	LEU	I	177	18.181	37.097-118.910	1.00	0.00	O
ATOM	10714	CB	LEU	I	177	18.392	39.840-121.062	1.00	0.00	C
ATOM	10715	1HB	LEU	I	177	17.359	40.038-121.335	1.00	0.00	H
ATOM	10716	2HB	LEU	I	177	18.912	40.798-121.114	1.00	0.00	H
ATOM	10717	CG	LEU	I	177	19.014	38.909-122.122	1.00	0.00	C
ATOM	10718	HG	LEU	I	177	20.045	38.688-121.850	1.00	0.00	H
ATOM	10719	CD1	LEU	I	177	18.249	37.597-122.317	1.00	0.00	C
ATOM	10720	1HD1	LEU	I	177	17.179	37.795-122.384	1.00	0.00	H
ATOM	10721	2HD1	LEU	I	177	18.447	36.923-121.486	1.00	0.00	H
ATOM	10722	3HD1	LEU	I	177	18.581	37.098-123.225	1.00	0.00	H
ATOM	10723	CD2	LEU	I	177	19.008	39.642-123.466	1.00	0.00	C
ATOM	10724	1HD2	LEU	I	177	17.982	39.852-123.754	1.00	0.00	H
ATOM	10725	2HD2	LEU	I	177	19.472	39.025-124.233	1.00	0.00	H
ATOM	10726	3HD2	LEU	I	177	19.571	40.571-123.378	1.00	0.00	H

ATOM	10727	N	LYS	I	178	16.278	38.187-119.371	1.00	0.00	N
ATOM	10728	H	LYS	I	178	15.853	38.969-119.856	1.00	0.00	H
ATOM	10729	CA	LYS	I	178	15.403	37.224-118.674	1.00	0.00	C
ATOM	10730	HA	LYS	I	178	16.024	36.463-118.205	1.00	0.00	H
ATOM	10731	C	LYS	I	178	14.515	36.424-119.625	1.00	0.00	C
ATOM	10732	O	LYS	I	178	14.308	36.794-120.776	1.00	0.00	O
ATOM	10733	CB	LYS	I	178	14.631	37.949-117.548	1.00	0.00	C
ATOM	10734	1HB	LYS	I	178	14.028	38.746-117.986	1.00	0.00	H
ATOM	10735	2HB	LYS	I	178	13.949	37.243-117.071	1.00	0.00	H
ATOM	10736	CG	LYS	I	178	15.535	38.559-116.450	1.00	0.00	C
ATOM	10737	1HG	LYS	I	178	16.180	39.322-116.886	1.00	0.00	H
ATOM	10738	2HG	LYS	I	178	14.898	39.049-115.717	1.00	0.00	H
ATOM	10739	CD	LYS	I	178	16.406	37.506-115.744	1.00	0.00	C
ATOM	10740	1HD	LYS	I	178	15.771	36.701-115.370	1.00	0.00	H
ATOM	10741	2HD	LYS	I	178	17.103	37.104-116.475	1.00	0.00	H
ATOM	10742	CE	LYS	I	178	17.246	38.049-114.585	1.00	0.00	C
ATOM	10743	1HE	LYS	I	178	17.805	38.922-114.932	1.00	0.00	H
ATOM	10744	2HE	LYS	I	178	16.585	38.358-113.771	1.00	0.00	H
ATOM	10745	NZ	LYS	I	178	18.196	37.008-114.121	1.00	0.00	N
ATOM	10746	1HZ	LYS	I	178	18.756	36.654-114.893	1.00	0.00	H
ATOM	10747	2HZ	LYS	I	178	17.713	36.202-113.720	1.00	0.00	H
ATOM	10748	3HZ	LYS	I	178	18.897	37.335-113.460	1.00	0.00	H
ATOM	10749	N	VAL	I	179	14.036	35.281-119.136	1.00	0.00	N
ATOM	10750	H	VAL	I	179	14.191	35.089-118.159	1.00	0.00	H
ATOM	10751	CA	VAL	I	179	13.440	34.194-119.933	1.00	0.00	C
ATOM	10752	HA	VAL	I	179	13.129	34.583-120.899	1.00	0.00	H
ATOM	10753	C	VAL	I	179	12.211	33.651-119.197	1.00	0.00	C
ATOM	10754	O	VAL	I	179	12.244	33.559-117.970	1.00	0.00	O
ATOM	10755	CB	VAL	I	179	14.484	33.068-120.153	1.00	0.00	C
ATOM	10756	HB	VAL	I	179	14.757	32.654-119.182	1.00	0.00	H
ATOM	10757	CG1	VAL	I	179	13.964	31.918-121.026	1.00	0.00	C
ATOM	10758	1HG1	VAL	I	179	13.720	32.279-122.023	1.00	0.00	H
ATOM	10759	2HG1	VAL	I	179	13.088	31.454-120.577	1.00	0.00	H
ATOM	10760	3HG1	VAL	I	179	14.735	31.157-121.123	1.00	0.00	H
ATOM	10761	CG2	VAL	I	179	15.769	33.585-120.822	1.00	0.00	C
ATOM	10762	1HG2	VAL	I	179	16.290	34.280-120.165	1.00	0.00	H
ATOM	10763	2HG2	VAL	I	179	15.524	34.087-121.758	1.00	0.00	H
ATOM	10764	3HG2	VAL	I	179	16.445	32.755-121.028	1.00	0.00	H
ATOM	10765	N	SER	I	180	11.159	33.262-119.922	1.00	0.00	N
ATOM	10766	H	SER	I	180	11.240	33.316-120.934	1.00	0.00	H
ATOM	10767	CA	SER	I	180	9.883	32.762-119.371	1.00	0.00	C
ATOM	10768	HA	SER	I	180	10.021	32.466-118.332	1.00	0.00	H
ATOM	10769	C	SER	I	180	9.387	31.540-120.157	1.00	0.00	C
ATOM	10770	O	SER	I	180	9.692	31.397-121.338	1.00	0.00	O
ATOM	10771	CB	SER	I	180	8.801	33.857-119.422	1.00	0.00	C
ATOM	10772	1HB	SER	I	180	8.641	34.159-120.454	1.00	0.00	H
ATOM	10773	2HB	SER	I	180	7.861	33.459-119.035	1.00	0.00	H
ATOM	10774	OG	SER	I	180	9.163	34.995-118.661	1.00	0.00	O
ATOM	10775	HG	SER	I	180	8.590	35.738-118.943	1.00	0.00	H
ATOM	10776	N	ALA	I	181	8.606	30.652-119.533	1.00	0.00	N
ATOM	10777	H	ALA	I	181	8.345	30.823-118.576	1.00	0.00	H
ATOM	10778	CA	ALA	I	181	7.907	29.578-120.255	1.00	0.00	C
ATOM	10779	HA	ALA	I	181	8.639	28.994-120.807	1.00	0.00	H
ATOM	10780	C	ALA	I	181	6.890	30.145-121.271	1.00	0.00	C
ATOM	10781	O	ALA	I	181	6.408	31.261-121.077	1.00	0.00	O
ATOM	10782	CB	ALA	I	181	7.229	28.663-119.228	1.00	0.00	C
ATOM	10783	1HB	ALA	I	181	7.973	28.261-118.539	1.00	0.00	H
ATOM	10784	2HB	ALA	I	181	6.739	27.835-119.743	1.00	0.00	H
ATOM	10785	3HB	ALA	I	181	6.479	29.225-118.668	1.00	0.00	H
ATOM	10786	N	LYS	I	182	6.552	29.389-122.328	1.00	0.00	N
ATOM	10787	H	LYS	I	182	7.015	28.502-122.487	1.00	0.00	H
ATOM	10788	CA	LYS	I	182	5.629	29.844-123.382	1.00	0.00	C
ATOM	10789	HA	LYS	I	182	4.908	30.537-122.945	1.00	0.00	H
ATOM	10790	C	LYS	I	182	4.803	28.713-123.994	1.00	0.00	C
ATOM	10791	O	LYS	I	182	5.368	27.783-124.609	1.00	0.00	O
ATOM	10792	OXT	LYS	I	182	3.560	28.807-123.993	1.00	0.00	O
ATOM	10793	CB	LYS	I	182	6.453	30.592-124.445	1.00	0.00	C
ATOM	10794	1HB	LYS	I	182	7.207	31.208-123.953	1.00	0.00	H
ATOM	10795	2HB	LYS	I	182	6.963	29.869-125.081	1.00	0.00	H
ATOM	10796	CG	LYS	I	182	5.582	31.519-125.297	1.00	0.00	C
ATOM	10797	1HG	LYS	I	182	4.720	30.973-125.682	1.00	0.00	H
ATOM	10798	2HG	LYS	I	182	5.231	32.345-124.676	1.00	0.00	H
ATOM	10799	CD	LYS	I	182	6.389	32.065-126.479	1.00	0.00	C
ATOM	10800	1HD	LYS	I	182	7.332	32.485-126.129	1.00	0.00	H
ATOM	10801	2HD	LYS	I	182	6.595	31.244-127.167	1.00	0.00	H
ATOM	10802	CE	LYS	I	182	5.581	33.157-127.178	1.00	0.00	C
ATOM	10803	1HE	LYS	I	182	4.518	33.023-126.951	1.00	0.00	H

ATOM	10804	2HE	LYS	I	182	5.867	34.135-126.782	1.00	0.00	H
ATOM	10805	NZ	LYS	I	182	5.753	33.122-128.645	1.00	0.00	N
ATOM	10806	1HZ	LYS	I	182	5.276	32.319-129.039	1.00	0.00	H
ATOM	10807	2HZ	LYS	I	182	6.715	33.153-128.941	1.00	0.00	H
ATOM	10808	3HZ	LYS	I	182	5.288	33.937-129.053	1.00	0.00	H
TER	10809		LYS	I	182					
ATOM	10810	N	ASP	J	106	9.000	15.753-145.908	1.00	0.00	N
ATOM	10811	1H	ASP	J	106	8.100	15.988-146.309	1.00	0.00	H
ATOM	10812	2H	ASP	J	106	9.661	16.480-146.173	1.00	0.00	H
ATOM	10813	3H	ASP	J	106	8.960	15.795-144.892	1.00	0.00	H
ATOM	10814	CA	ASP	J	106	9.474	14.441-146.399	1.00	0.00	C
ATOM	10815	HA	ASP	J	106	8.738	13.691-146.115	1.00	0.00	H
ATOM	10816	C	ASP	J	106	10.806	13.983-145.786	1.00	0.00	C
ATOM	10817	O	ASP	J	106	10.926	12.781-145.560	1.00	0.00	O
ATOM	10818	CB	ASP	J	106	9.576	14.427-147.931	1.00	0.00	C
ATOM	10819	1HB	ASP	J	106	9.880	13.431-148.258	1.00	0.00	H
ATOM	10820	2HB	ASP	J	106	8.609	14.639-148.380	1.00	0.00	H
ATOM	10821	CG	ASP	J	106	10.598	15.458-148.392	1.00	0.00	C
ATOM	10822	OD1	ASP	J	106	10.355	16.658-148.131	1.00	0.00	O
ATOM	10823	OD2	ASP	J	106	11.693	15.037-148.797	1.00	0.00	O
ATOM	10824	N	SER	J	107	11.793	14.876-145.585	1.00	0.00	N
ATOM	10825	H	SER	J	107	11.529	15.859-145.686	1.00	0.00	H
ATOM	10826	CA	SER	J	107	13.191	14.707-145.097	1.00	0.00	C
ATOM	10827	HA	SER	J	107	13.264	15.329-144.205	1.00	0.00	H
ATOM	10828	C	SER	J	107	14.266	15.259-146.055	1.00	0.00	C
ATOM	10829	O	SER	J	107	15.454	15.260-145.715	1.00	0.00	O
ATOM	10830	CB	SER	J	107	13.586	13.286-144.658	1.00	0.00	C
ATOM	10831	1HB	SER	J	107	14.594	13.304-144.241	1.00	0.00	H
ATOM	10832	2HB	SER	J	107	12.904	12.946-143.878	1.00	0.00	H
ATOM	10833	OG	SER	J	107	13.552	12.383-145.744	1.00	0.00	O
ATOM	10834	HG	SER	J	107	12.602	12.294-145.945	1.00	0.00	H
ATOM	10835	N	ARG	J	108	13.889	15.729-147.252	1.00	0.00	N
ATOM	10836	H	ARG	J	108	12.924	15.572-147.548	1.00	0.00	H
ATOM	10837	CA	ARG	J	108	14.773	16.362-148.252	1.00	0.00	C
ATOM	10838	HA	ARG	J	108	15.796	16.348-147.894	1.00	0.00	H
ATOM	10839	C	ARG	J	108	14.464	17.842-148.475	1.00	0.00	C
ATOM	10840	O	ARG	J	108	15.131	18.473-149.297	1.00	0.00	O
ATOM	10841	CB	ARG	J	108	14.708	15.608-149.598	1.00	0.00	C
ATOM	10842	1HB	ARG	J	108	13.755	15.825-150.084	1.00	0.00	H
ATOM	10843	2HB	ARG	J	108	15.486	16.005-150.251	1.00	0.00	H
ATOM	10844	CG	ARG	J	108	14.870	14.078-149.525	1.00	0.00	C
ATOM	10845	1HG	ARG	J	108	13.970	13.639-149.094	1.00	0.00	H
ATOM	10846	2HG	ARG	J	108	14.965	13.699-150.544	1.00	0.00	H
ATOM	10847	CD	ARG	J	108	16.079	13.602-148.709	1.00	0.00	C
ATOM	10848	1HD	ARG	J	108	15.865	13.730-147.650	1.00	0.00	H
ATOM	10849	2HD	ARG	J	108	16.216	12.534-148.886	1.00	0.00	H
ATOM	10850	NE	ARG	J	108	17.308	14.317-149.092	1.00	0.00	N
ATOM	10851	HE	ARG	J	108	17.580	14.259-150.068	1.00	0.00	H
ATOM	10852	CZ	ARG	J	108	18.122	15.014-148.327	1.00	0.00	C
ATOM	10853	NH1	ARG	J	108	17.988	15.119-147.035	1.00	0.00	N
ATOM	10854	1HH1	ARG	J	108	17.110	14.843-146.604	1.00	0.00	H
ATOM	10855	2HH1	ARG	J	108	18.613	15.717-146.530	1.00	0.00	H
ATOM	10856	NH2	ARG	J	108	19.112	15.649-148.866	1.00	0.00	N
ATOM	10857	1HH2	ARG	J	108	19.175	15.759-149.877	1.00	0.00	H
ATOM	10858	2HH2	ARG	J	108	19.882	15.994-148.311	1.00	0.00	H
ATOM	10859	N	SER	J	109	13.507	18.398-147.732	1.00	0.00	N
ATOM	10860	H	SER	J	109	13.023	17.830-147.052	1.00	0.00	H
ATOM	10861	CA	SER	J	109	13.055	19.780-147.871	1.00	0.00	C
ATOM	10862	HA	SER	J	109	13.738	20.290-148.543	1.00	0.00	H
ATOM	10863	C	SER	J	109	13.106	20.570-146.559	1.00	0.00	C
ATOM	10864	O	SER	J	109	13.311	20.020-145.472	1.00	0.00	O
ATOM	10865	CB	SER	J	109	11.667	19.815-148.533	1.00	0.00	C
ATOM	10866	1HB	SER	J	109	11.394	20.848-148.748	1.00	0.00	H
ATOM	10867	2HB	SER	J	109	11.706	19.264-149.471	1.00	0.00	H
ATOM	10868	OG	SER	J	109	10.656	19.249-147.735	1.00	0.00	O
ATOM	10869	HG	SER	J	109	10.685	18.270-147.836	1.00	0.00	H
ATOM	10870	N	ILE	J	110	12.967	21.891-146.682	1.00	0.00	N
ATOM	10871	H	ILE	J	110	12.861	22.264-147.620	1.00	0.00	H
ATOM	10872	CA	ILE	J	110	12.983	22.860-145.583	1.00	0.00	C
ATOM	10873	HA	ILE	J	110	12.780	22.317-144.662	1.00	0.00	H
ATOM	10874	C	ILE	J	110	11.854	23.880-145.764	1.00	0.00	C
ATOM	10875	O	ILE	J	110	11.671	24.415-146.856	1.00	0.00	O
ATOM	10876	CB	ILE	J	110	14.362	23.558-145.435	1.00	0.00	C
ATOM	10877	HB	ILE	J	110	14.257	24.326-144.668	1.00	0.00	H
ATOM	10878	CG1	ILE	J	110	14.852	24.255-146.726	1.00	0.00	C
ATOM	10879	1HG1	ILE	J	110	14.916	23.523-147.531	1.00	0.00	H
ATOM	10880	2HG1	ILE	J	110	14.124	25.013-147.004	1.00	0.00	H

ATOM	10881	CG2	ILE	J	110	15.413	22.559-144.931	1.00	0.00	C
ATOM	10882	1HG2	ILE	J	110	16.315	23.095-144.649	1.00	0.00	H
ATOM	10883	2HG2	ILE	J	110	15.644	21.826-145.703	1.00	0.00	H
ATOM	10884	3HG2	ILE	J	110	15.047	22.046-144.048	1.00	0.00	H
ATOM	10885	CD1	ILE	J	110	16.213	24.960-146.618	1.00	0.00	C
ATOM	10886	1HD1	ILE	J	110	16.218	25.634-145.762	1.00	0.00	H
ATOM	10887	2HD1	ILE	J	110	16.390	25.540-147.524	1.00	0.00	H
ATOM	10888	3HD1	ILE	J	110	17.015	24.230-146.516	1.00	0.00	H
ATOM	10889	N	TYR	J	111	11.092	24.116-144.697	1.00	0.00	N
ATOM	10890	H	TYR	J	111	11.394	23.676-143.837	1.00	0.00	H
ATOM	10891	CA	TYR	J	111	10.066	25.152-144.557	1.00	0.00	C
ATOM	10892	HA	TYR	J	111	9.484	25.217-145.474	1.00	0.00	H
ATOM	10893	C	TYR	J	111	10.682	26.528-144.262	1.00	0.00	C
ATOM	10894	O	TYR	J	111	11.741	26.616-143.638	1.00	0.00	O
ATOM	10895	CB	TYR	J	111	9.140	24.748-143.398	1.00	0.00	C
ATOM	10896	1HB	TYR	J	111	8.561	23.883-143.714	1.00	0.00	H
ATOM	10897	2HB	TYR	J	111	9.756	24.434-142.553	1.00	0.00	H
ATOM	10898	CG	TYR	J	111	8.184	25.829-142.914	1.00	0.00	C
ATOM	10899	CD1	TYR	J	111	8.358	26.410-141.641	1.00	0.00	C
ATOM	10900	HD1	TYR	J	111	9.162	26.087-140.998	1.00	0.00	H
ATOM	10901	CD2	TYR	J	111	7.139	26.278-143.745	1.00	0.00	C
ATOM	10902	HD2	TYR	J	111	7.015	25.860-144.733	1.00	0.00	H
ATOM	10903	CE1	TYR	J	111	7.472	27.409-141.193	1.00	0.00	C
ATOM	10904	HE1	TYR	J	111	7.579	27.848-140.212	1.00	0.00	H
ATOM	10905	CE2	TYR	J	111	6.239	27.262-143.289	1.00	0.00	C
ATOM	10906	HE2	TYR	J	111	5.420	27.582-143.913	1.00	0.00	H
ATOM	10907	CZ	TYR	J	111	6.397	27.824-142.006	1.00	0.00	C
ATOM	10908	OH	TYR	J	111	5.529	28.755-141.534	1.00	0.00	O
ATOM	10909	HH	TYR	J	111	4.717	28.839-142.046	1.00	0.00	H
ATOM	10910	N	VAL	J	112	9.971	27.594-144.639	1.00	0.00	N
ATOM	10911	H	VAL	J	112	9.102	27.421-145.138	1.00	0.00	H
ATOM	10912	CA	VAL	J	112	10.318	28.997-144.390	1.00	0.00	C
ATOM	10913	HA	VAL	J	112	11.070	29.043-143.603	1.00	0.00	H
ATOM	10914	C	VAL	J	112	9.071	29.760-143.923	1.00	0.00	C
ATOM	10915	O	VAL	J	112	8.077	29.824-144.649	1.00	0.00	O
ATOM	10916	CB	VAL	J	112	10.898	29.658-145.658	1.00	0.00	C
ATOM	10917	HB	VAL	J	112	10.102	29.806-146.389	1.00	0.00	H
ATOM	10918	CG1	VAL	J	112	11.505	31.020-145.310	1.00	0.00	C
ATOM	10919	1HG1	VAL	J	112	12.312	30.888-144.589	1.00	0.00	H
ATOM	10920	2HG1	VAL	J	112	10.749	31.671-144.874	1.00	0.00	H
ATOM	10921	3HG1	VAL	J	112	11.894	31.498-146.209	1.00	0.00	H
ATOM	10922	CG2	VAL	J	112	12.001	28.825-146.327	1.00	0.00	C
ATOM	10923	1HG2	VAL	J	112	12.793	28.603-145.612	1.00	0.00	H
ATOM	10924	2HG2	VAL	J	112	12.412	29.379-147.168	1.00	0.00	H
ATOM	10925	3HG2	VAL	J	112	11.588	27.891-146.708	1.00	0.00	H
ATOM	10926	N	GLY	J	113	9.152	30.359-142.732	1.00	0.00	N
ATOM	10927	H	GLY	J	113	10.048	30.323-142.255	1.00	0.00	H
ATOM	10928	CA	GLY	J	113	8.093	31.137-142.072	1.00	0.00	C
ATOM	10929	1HA	GLY	J	113	7.209	31.198-142.708	1.00	0.00	H
ATOM	10930	2HA	GLY	J	113	7.801	30.635-141.149	1.00	0.00	H
ATOM	10931	C	GLY	J	113	8.560	32.559-141.731	1.00	0.00	C
ATOM	10932	O	GLY	J	113	9.655	32.962-142.129	1.00	0.00	O
ATOM	10933	N	ASN	J	114	7.739	33.349-141.021	1.00	0.00	N
ATOM	10934	H	ASN	J	114	6.885	32.947-140.640	1.00	0.00	H
ATOM	10935	CA	ASN	J	114	8.021	34.775-140.728	1.00	0.00	C
ATOM	10936	HA	ASN	J	114	7.141	35.175-140.220	1.00	0.00	H
ATOM	10937	C	ASN	J	114	8.225	35.633-142.017	1.00	0.00	C
ATOM	10938	O	ASN	J	114	8.948	36.629-142.017	1.00	0.00	O
ATOM	10939	CB	ASN	J	114	9.208	34.825-139.727	1.00	0.00	C
ATOM	10940	1HB	ASN	J	114	9.134	33.973-139.049	1.00	0.00	H
ATOM	10941	2HB	ASN	J	114	10.145	34.738-140.273	1.00	0.00	H
ATOM	10942	CG	ASN	J	114	9.292	36.062-138.845	1.00	0.00	C
ATOM	10943	OD1	ASN	J	114	9.258	35.983-137.632	1.00	0.00	O
ATOM	10944	ND2	ASN	J	114	9.466	37.237-139.394	1.00	0.00	N
ATOM	10945	1HD2	ASN	J	114	9.512	38.020-138.769	1.00	0.00	H
ATOM	10946	2HD2	ASN	J	114	9.470	37.319-140.405	1.00	0.00	H
ATOM	10947	N	VAL	J	115	7.656	35.213-143.155	1.00	0.00	N
ATOM	10948	H	VAL	J	115	7.082	34.387-143.105	1.00	0.00	H
ATOM	10949	CA	VAL	J	115	7.963	35.763-144.491	1.00	0.00	C
ATOM	10950	HA	VAL	J	115	9.038	35.941-144.511	1.00	0.00	H
ATOM	10951	C	VAL	J	115	7.271	37.103-144.792	1.00	0.00	C
ATOM	10952	O	VAL	J	115	6.109	37.326-144.444	1.00	0.00	O
ATOM	10953	CB	VAL	J	115	7.654	34.743-145.612	1.00	0.00	C
ATOM	10954	HB	VAL	J	115	6.574	34.648-145.733	1.00	0.00	H
ATOM	10955	CG1	VAL	J	115	8.260	35.185-146.954	1.00	0.00	C
ATOM	10956	1HG1	VAL	J	115	7.714	36.040-147.351	1.00	0.00	H
ATOM	10957	2HG1	VAL	J	115	8.186	34.388-147.691	1.00	0.00	H



ATOM	10958	3HG1	VAL	J	115	9.310	35.442-146.836	1.00	0.00	H
ATOM	10959	CG2	VAL	J	115	8.220	33.358-145.268	1.00	0.00	C
ATOM	10960	1HG2	VAL	J	115	8.255	32.725-146.155	1.00	0.00	H
ATOM	10961	2HG2	VAL	J	115	7.586	32.870-144.530	1.00	0.00	H
ATOM	10962	3HG2	VAL	J	115	9.225	33.452-144.864	1.00	0.00	H
ATOM	10963	N	ASP	J	116	8.014	37.956-145.505	1.00	0.00	N
ATOM	10964	H	ASP	J	116	8.953	37.655-145.699	1.00	0.00	H
ATOM	10965	CA	ASP	J	116	7.613	39.214-146.153	1.00	0.00	C
ATOM	10966	HA	ASP	J	116	7.296	39.912-145.376	1.00	0.00	H
ATOM	10967	C	ASP	J	116	6.439	39.070-147.164	1.00	0.00	C
ATOM	10968	O	ASP	J	116	5.917	37.980-147.389	1.00	0.00	O
ATOM	10969	CB	ASP	J	116	8.895	39.772-146.808	1.00	0.00	C
ATOM	10970	1HB	ASP	J	116	9.723	39.687-146.100	1.00	0.00	H
ATOM	10971	2HB	ASP	J	116	9.145	39.161-147.678	1.00	0.00	H
ATOM	10972	CG	ASP	J	116	8.794	41.235-147.233	1.00	0.00	C
ATOM	10973	OD1	ASP	J	116	9.208	42.131-146.472	1.00	0.00	O
ATOM	10974	OD2	ASP	J	116	8.334	41.500-148.363	1.00	0.00	O
ATOM	10975	N	TYR	J	117	6.028	40.177-147.793	1.00	0.00	N
ATOM	10976	H	TYR	J	117	6.607	41.005-147.702	1.00	0.00	H
ATOM	10977	CA	TYR	J	117	4.831	40.334-148.630	1.00	0.00	C
ATOM	10978	HA	TYR	J	117	4.295	39.387-148.665	1.00	0.00	H
ATOM	10979	C	TYR	J	117	5.117	40.712-150.097	1.00	0.00	C
ATOM	10980	O	TYR	J	117	4.173	40.859-150.872	1.00	0.00	O
ATOM	10981	CB	TYR	J	117	3.930	41.395-147.972	1.00	0.00	C
ATOM	10982	1HB	TYR	J	117	2.958	41.384-148.468	1.00	0.00	H
ATOM	10983	2HB	TYR	J	117	3.760	41.130-146.928	1.00	0.00	H
ATOM	10984	CG	TYR	J	117	4.497	42.805-148.031	1.00	0.00	C
ATOM	10985	CD1	TYR	J	117	5.380	43.262-147.032	1.00	0.00	C
ATOM	10986	HD1	TYR	J	117	5.640	42.622-146.201	1.00	0.00	H
ATOM	10987	CD2	TYR	J	117	4.177	43.642-149.119	1.00	0.00	C
ATOM	10988	HD2	TYR	J	117	3.512	43.282-149.894	1.00	0.00	H
ATOM	10989	CE1	TYR	J	117	5.952	44.546-147.128	1.00	0.00	C
ATOM	10990	HE1	TYR	J	117	6.647	44.892-146.378	1.00	0.00	H
ATOM	10991	CE2	TYR	J	117	4.744	44.927-149.217	1.00	0.00	C
ATOM	10992	HE2	TYR	J	117	4.505	45.552-150.062	1.00	0.00	H
ATOM	10993	CZ	TYR	J	117	5.638	45.378-148.222	1.00	0.00	C
ATOM	10994	OH	TYR	J	117	6.196	46.613-148.323	1.00	0.00	O
ATOM	10995	HH	TYR	J	117	5.903	47.059-149.116	1.00	0.00	H
ATOM	10996	N	ALA	J	118	6.385	40.882-150.488	1.00	0.00	N
ATOM	10997	H	ALA	J	118	7.107	40.890-149.771	1.00	0.00	H
ATOM	10998	CA	ALA	J	118	6.784	41.242-151.858	1.00	0.00	C
ATOM	10999	HA	ALA	J	118	5.918	41.164-152.516	1.00	0.00	H
ATOM	11000	C	ALA	J	118	7.853	40.305-152.468	1.00	0.00	C
ATOM	11001	O	ALA	J	118	8.317	40.545-153.582	1.00	0.00	O
ATOM	11002	CB	ALA	J	118	7.230	42.710-151.841	1.00	0.00	C
ATOM	11003	1HB	ALA	J	118	8.098	42.821-151.193	1.00	0.00	H
ATOM	11004	2HB	ALA	J	118	6.418	43.336-151.469	1.00	0.00	H
ATOM	11005	3HB	ALA	J	118	7.491	43.025-152.852	1.00	0.00	H
ATOM	11006	N	CYS	J	119	8.224	39.247-151.742	1.00	0.00	N
ATOM	11007	H	CYS	J	119	7.739	39.103-150.873	1.00	0.00	H
ATOM	11008	CA	CYS	J	119	9.165	38.206-152.163	1.00	0.00	C
ATOM	11009	HA	CYS	J	119	10.018	38.672-152.661	1.00	0.00	H
ATOM	11010	C	CYS	J	119	8.521	37.198-153.144	1.00	0.00	C
ATOM	11011	O	CYS	J	119	7.300	37.035-153.166	1.00	0.00	O
ATOM	11012	CB	CYS	J	119	9.637	37.517-150.873	1.00	0.00	C
ATOM	11013	1HB	CYS	J	119	9.915	38.279-150.144	1.00	0.00	H
ATOM	11014	2HB	CYS	J	119	8.821	36.914-150.468	1.00	0.00	H
ATOM	11015	SG	CYS	J	119	11.080	36.465-151.176	1.00	0.00	S
ATOM	11016	HG	CYS	J	119	11.170	35.942-149.950	1.00	0.00	H
ATOM	11017	N	THR	J	120	9.340	36.465-153.903	1.00	0.00	N
ATOM	11018	H	THR	J	120	10.327	36.706-153.869	1.00	0.00	H
ATOM	11019	CA	THR	J	120	8.916	35.532-154.966	1.00	0.00	C
ATOM	11020	HA	THR	J	120	7.832	35.433-154.939	1.00	0.00	H
ATOM	11021	C	THR	J	120	9.536	34.133-154.808	1.00	0.00	C
ATOM	11022	O	THR	J	120	10.671	34.007-154.339	1.00	0.00	O
ATOM	11023	CB	THR	J	120	9.306	36.086-156.349	1.00	0.00	C
ATOM	11024	HB	THR	J	120	9.008	35.364-157.107	1.00	0.00	H
ATOM	11025	OG1	THR	J	120	10.699	36.282-156.444	1.00	0.00	O
ATOM	11026	HG1	THR	J	120	10.932	37.020-155.835	1.00	0.00	H
ATOM	11027	CG2	THR	J	120	8.629	37.417-156.671	1.00	0.00	C
ATOM	11028	1HG2	THR	J	120	7.548	37.309-156.582	1.00	0.00	H
ATOM	11029	2HG2	THR	J	120	8.876	37.707-157.691	1.00	0.00	H
ATOM	11030	3HG2	THR	J	120	8.970	38.195-155.985	1.00	0.00	H
ATOM	11031	N	PRO	J	121	8.861	33.040-155.226	1.00	0.00	N
ATOM	11032	CA	PRO	J	121	9.462	31.703-155.192	1.00	0.00	C
ATOM	11033	HA	PRO	J	121	9.801	31.481-154.180	1.00	0.00	H
ATOM	11034	C	PRO	J	121	10.673	31.585-156.133	1.00	0.00	C

ATOM	11035	O	PRO	J	121	11.581	30.791-155.877	1.00	0.00	O
ATOM	11036	CB	PRO	J	121	8.336	30.734-155.562	1.00	0.00	C
ATOM	11037	1HB	PRO	J	121	8.701	29.869-156.116	1.00	0.00	H
ATOM	11038	2HB	PRO	J	121	7.830	30.412-154.653	1.00	0.00	H
ATOM	11039	CG	PRO	J	121	7.386	31.583-156.406	1.00	0.00	C
ATOM	11040	1HG	PRO	J	121	7.726	31.574-157.439	1.00	0.00	H
ATOM	11041	2HG	PRO	J	121	6.359	31.223-156.360	1.00	0.00	H
ATOM	11042	CD	PRO	J	121	7.529	32.989-155.817	1.00	0.00	C
ATOM	11043	1HD	PRO	J	121	7.403	33.738-156.598	1.00	0.00	H
ATOM	11044	2HD	PRO	J	121	6.781	33.141-155.040	1.00	0.00	H
ATOM	11045	N	GLU	J	122	10.717	32.387-157.199	1.00	0.00	N
ATOM	11046	H	GLU	J	122	9.896	32.957-157.409	1.00	0.00	H
ATOM	11047	CA	GLU	J	122	11.864	32.555-158.095	1.00	0.00	C
ATOM	11048	HA	GLU	J	122	12.126	31.591-158.530	1.00	0.00	H
ATOM	11049	C	GLU	J	122	13.120	33.072-157.365	1.00	0.00	C
ATOM	11050	O	GLU	J	122	14.213	32.553-157.604	1.00	0.00	O
ATOM	11051	CB	GLU	J	122	11.485	33.502-159.250	1.00	0.00	C
ATOM	11052	1HB	GLU	J	122	11.121	34.450-158.850	1.00	0.00	H
ATOM	11053	2HB	GLU	J	122	12.397	33.718-159.808	1.00	0.00	H
ATOM	11054	CG	GLU	J	122	10.466	32.930-160.259	1.00	0.00	C
ATOM	11055	1HG	GLU	J	122	10.473	33.577-161.139	1.00	0.00	H
ATOM	11056	2HG	GLU	J	122	10.811	31.943-160.577	1.00	0.00	H
ATOM	11057	CD	GLU	J	122	9.013	32.825-159.760	1.00	0.00	C
ATOM	11058	OE1	GLU	J	122	8.224	32.062-160.373	1.00	0.00	O
ATOM	11059	OE2	GLU	J	122	8.664	33.473-158.753	1.00	0.00	O
ATOM	11060	N	GLU	J	123	13.003	34.041-156.445	1.00	0.00	N
ATOM	11061	H	GLU	J	123	12.097	34.473-156.285	1.00	0.00	H
ATOM	11062	CA	GLU	J	123	14.174	34.567-155.722	1.00	0.00	C
ATOM	11063	HA	GLU	J	123	15.028	34.457-156.385	1.00	0.00	H
ATOM	11064	C	GLU	J	123	14.515	33.785-154.440	1.00	0.00	C
ATOM	11065	O	GLU	J	123	15.697	33.658-154.106	1.00	0.00	O
ATOM	11066	CB	GLU	J	123	14.058	36.079-155.481	1.00	0.00	C
ATOM	11067	1HB	GLU	J	123	15.064	36.490-155.384	1.00	0.00	H
ATOM	11068	2HB	GLU	J	123	13.603	36.534-156.363	1.00	0.00	H
ATOM	11069	CG	GLU	J	123	13.266	36.472-154.231	1.00	0.00	C
ATOM	11070	1HG	GLU	J	123	12.414	35.805-154.115	1.00	0.00	H
ATOM	11071	2HG	GLU	J	123	13.900	36.366-153.347	1.00	0.00	H
ATOM	11072	CD	GLU	J	123	12.761	37.906-154.355	1.00	0.00	C
ATOM	11073	OE1	GLU	J	123	11.556	38.060-154.654	1.00	0.00	O
ATOM	11074	OE2	GLU	J	123	13.562	38.849-154.167	1.00	0.00	O
ATOM	11075	N	VAL	J	124	13.520	33.194-153.762	1.00	0.00	N
ATOM	11076	H	VAL	J	124	12.567	33.390-154.061	1.00	0.00	H
ATOM	11077	CA	VAL	J	124	13.728	32.322-152.587	1.00	0.00	C
ATOM	11078	HA	VAL	J	124	14.203	32.906-151.799	1.00	0.00	H
ATOM	11079	C	VAL	J	124	14.681	31.170-152.915	1.00	0.00	C
ATOM	11080	O	VAL	J	124	15.641	30.933-152.180	1.00	0.00	O
ATOM	11081	CB	VAL	J	124	12.379	31.788-152.050	1.00	0.00	C
ATOM	11082	HB	VAL	J	124	11.797	31.397-152.884	1.00	0.00	H
ATOM	11083	CG1	VAL	J	124	12.528	30.672-151.007	1.00	0.00	C
ATOM	11084	1HG1	VAL	J	124	11.547	30.392-150.621	1.00	0.00	H
ATOM	11085	2HG1	VAL	J	124	13.151	31.025-150.185	1.00	0.00	H
ATOM	11086	3HG1	VAL	J	124	12.981	29.788-151.452	1.00	0.00	H
ATOM	11087	CG2	VAL	J	124	11.581	32.901-151.363	1.00	0.00	C
ATOM	11088	1HG2	VAL	J	124	10.575	32.550-151.132	1.00	0.00	H
ATOM	11089	2HG2	VAL	J	124	11.501	33.764-152.019	1.00	0.00	H
ATOM	11090	3HG2	VAL	J	124	12.074	33.210-150.441	1.00	0.00	H
ATOM	11091	N	GLN	J	125	14.461	30.472-154.037	1.00	0.00	N
ATOM	11092	H	GLN	J	125	13.667	30.715-154.617	1.00	0.00	H
ATOM	11093	CA	GLN	J	125	15.335	29.363-154.434	1.00	0.00	C
ATOM	11094	HA	GLN	J	125	15.427	28.707-153.566	1.00	0.00	H
ATOM	11095	C	GLN	J	125	16.770	29.827-154.752	1.00	0.00	C
ATOM	11096	O	GLN	J	125	17.715	29.202-154.272	1.00	0.00	O
ATOM	11097	CB	GLN	J	125	14.682	28.512-155.544	1.00	0.00	C
ATOM	11098	1HB	GLN	J	125	15.298	27.628-155.718	1.00	0.00	H
ATOM	11099	2HB	GLN	J	125	13.713	28.171-155.176	1.00	0.00	H
ATOM	11100	CG	GLN	J	125	14.466	29.231-156.883	1.00	0.00	C
ATOM	11101	1HG	GLN	J	125	14.038	30.211-156.694	1.00	0.00	H
ATOM	11102	2HG	GLN	J	125	15.423	29.372-157.385	1.00	0.00	H
ATOM	11103	CD	GLN	J	125	13.530	28.464-157.820	1.00	0.00	C
ATOM	11104	OE1	GLN	J	125	13.874	27.431-158.378	1.00	0.00	O
ATOM	11105	NE2	GLN	J	125	12.321	28.948-158.003	1.00	0.00	N
ATOM	11106	1HE2	GLN	J	125	11.700	28.536-158.703	1.00	0.00	H
ATOM	11107	2HE2	GLN	J	125	12.021	29.738-157.447	1.00	0.00	H
ATOM	11108	N	GLN	J	126	16.973	30.939-155.478	1.00	0.00	N
ATOM	11109	H	GLN	J	126	16.176	31.457-155.823	1.00	0.00	H
ATOM	11110	CA	GLN	J	126	18.333	31.406-155.808	1.00	0.00	C
ATOM	11111	HA	GLN	J	126	18.900	30.522-156.100	1.00	0.00	H

ATOM	11112	C	GLN	J	126	19.095	32.003-154.608	1.00	0.00	C
ATOM	11113	O	GLN	J	126	20.321	31.878-154.555	1.00	0.00	O
ATOM	11114	CB	GLN	J	126	18.336	32.317-157.053	1.00	0.00	C
ATOM	11115	1HB	GLN	J	126	19.347	32.340-157.463	1.00	0.00	H
ATOM	11116	2HB	GLN	J	126	17.701	31.850-157.807	1.00	0.00	H
ATOM	11117	CG	GLN	J	126	17.855	33.763-156.856	1.00	0.00	C
ATOM	11118	1HG	GLN	J	126	17.502	34.146-157.814	1.00	0.00	H
ATOM	11119	2HG	GLN	J	126	17.016	33.764-156.174	1.00	0.00	H
ATOM	11120	CD	GLN	J	126	18.936	34.718-156.354	1.00	0.00	C
ATOM	11121	OE1	GLN	J	126	19.935	34.962-157.009	1.00	0.00	O
ATOM	11122	NE2	GLN	J	126	18.768	35.313-155.194	1.00	0.00	N
ATOM	11123	1HE2	GLN	J	126	19.494	35.937-154.892	1.00	0.00	H
ATOM	11124	2HE2	GLN	J	126	17.945	35.144-154.640	1.00	0.00	H
ATOM	11125	N	HIS	J	127	18.396	32.577-153.616	1.00	0.00	N
ATOM	11126	H	HIS	J	127	17.389	32.671-153.712	1.00	0.00	H
ATOM	11127	CA	HIS	J	127	19.015	33.011-152.356	1.00	0.00	C
ATOM	11128	HA	HIS	J	127	19.794	33.746-152.571	1.00	0.00	H
ATOM	11129	C	HIS	J	127	19.695	31.828-151.657	1.00	0.00	C
ATOM	11130	O	HIS	J	127	20.901	31.858-151.421	1.00	0.00	O
ATOM	11131	CB	HIS	J	127	17.975	33.655-151.418	1.00	0.00	C
ATOM	11132	1HB	HIS	J	127	16.973	33.303-151.664	1.00	0.00	H
ATOM	11133	2HB	HIS	J	127	18.188	33.328-150.400	1.00	0.00	H
ATOM	11134	CG	HIS	J	127	17.989	35.165-151.401	1.00	0.00	C
ATOM	11135	ND1	HIS	J	127	18.716	35.963-150.540	1.00	0.00	N
ATOM	11136	HD1	HIS	J	127	19.267	35.661-149.742	1.00	0.00	H
ATOM	11137	CD2	HIS	J	127	17.217	36.001-152.162	1.00	0.00	C
ATOM	11138	HD2	HIS	J	127	16.487	35.701-152.899	1.00	0.00	H
ATOM	11139	CE1	HIS	J	127	18.422	37.246-150.808	1.00	0.00	C
ATOM	11140	HE1	HIS	J	127	18.820	38.099-150.271	1.00	0.00	H
ATOM	11141	NE2	HIS	J	127	17.494	37.316-151.777	1.00	0.00	N
ATOM	11142	N	PHE	J	128	18.951	30.753-151.378	1.00	0.00	N
ATOM	11143	H	PHE	J	128	17.958	30.771-151.580	1.00	0.00	H
ATOM	11144	CA	PHE	J	128	19.522	29.584-150.706	1.00	0.00	C
ATOM	11145	HA	PHE	J	128	20.079	29.926-149.833	1.00	0.00	H
ATOM	11146	C	PHE	J	128	20.532	28.832-151.587	1.00	0.00	C
ATOM	11147	O	PHE	J	128	21.582	28.436-151.084	1.00	0.00	O
ATOM	11148	CB	PHE	J	128	18.399	28.660-150.227	1.00	0.00	C
ATOM	11149	1HB	PHE	J	128	17.884	28.282-151.107	1.00	0.00	H
ATOM	11150	2HB	PHE	J	128	18.845	27.810-149.709	1.00	0.00	H
ATOM	11151	CG	PHE	J	128	17.373	29.292-149.299	1.00	0.00	C
ATOM	11152	CD1	PHE	J	128	17.764	30.113-148.222	1.00	0.00	C
ATOM	11153	HD1	PHE	J	128	18.807	30.333-148.052	1.00	0.00	H
ATOM	11154	CD2	PHE	J	128	16.005	29.039-149.510	1.00	0.00	C
ATOM	11155	HD2	PHE	J	128	15.692	28.447-150.355	1.00	0.00	H
ATOM	11156	CE1	PHE	J	128	16.795	30.664-147.363	1.00	0.00	C
ATOM	11157	HE1	PHE	J	128	17.098	31.315-146.552	1.00	0.00	H
ATOM	11158	CE2	PHE	J	128	15.041	29.562-148.633	1.00	0.00	C
ATOM	11159	HE2	PHE	J	128	13.997	29.344-148.797	1.00	0.00	H
ATOM	11160	CZ	PHE	J	128	15.434	30.378-147.558	1.00	0.00	C
ATOM	11161	HZ	PHE	J	128	14.692	30.795-146.892	1.00	0.00	H
ATOM	11162	N	GLN	J	129	20.280	28.708-152.901	1.00	0.00	N
ATOM	11163	H	GLN	J	129	19.391	29.045-153.256	1.00	0.00	H
ATOM	11164	CA	GLN	J	129	21.212	28.081-153.853	1.00	0.00	C
ATOM	11165	HA	GLN	J	129	21.348	27.046-153.545	1.00	0.00	H
ATOM	11166	C	GLN	J	129	22.604	28.741-153.855	1.00	0.00	C
ATOM	11167	O	GLN	J	129	23.599	28.057-154.091	1.00	0.00	O
ATOM	11168	CB	GLN	J	129	20.602	28.085-155.268	1.00	0.00	C
ATOM	11169	1HB	GLN	J	129	19.559	27.786-155.212	1.00	0.00	H
ATOM	11170	2HB	GLN	J	129	20.649	29.095-155.676	1.00	0.00	H
ATOM	11171	CG	GLN	J	129	21.296	27.114-156.235	1.00	0.00	C
ATOM	11172	1HG	GLN	J	129	22.344	27.391-156.349	1.00	0.00	H
ATOM	11173	2HG	GLN	J	129	21.244	26.102-155.835	1.00	0.00	H
ATOM	11174	CD	GLN	J	129	20.641	27.136-157.612	1.00	0.00	C
ATOM	11175	OE1	GLN	J	129	21.091	27.798-158.532	1.00	0.00	O
ATOM	11176	NE2	GLN	J	129	19.561	26.417-157.822	1.00	0.00	N
ATOM	11177	1HE2	GLN	J	129	19.139	26.495-158.728	1.00	0.00	H
ATOM	11178	2HE2	GLN	J	129	19.159	25.836-157.091	1.00	0.00	H
ATOM	11179	N	SER	J	130	22.680	30.042-153.549	1.00	0.00	N
ATOM	11180	H	SER	J	130	21.817	30.542-153.375	1.00	0.00	H
ATOM	11181	CA	SER	J	130	23.938	30.795-153.411	1.00	0.00	C
ATOM	11182	HA	SER	J	130	24.543	30.615-154.299	1.00	0.00	H
ATOM	11183	C	SER	J	130	24.795	30.385-152.199	1.00	0.00	C
ATOM	11184	O	SER	J	130	25.976	30.730-152.159	1.00	0.00	O
ATOM	11185	CB	SER	J	130	23.651	32.299-153.343	1.00	0.00	C
ATOM	11186	1HB	SER	J	130	23.050	32.529-152.463	1.00	0.00	H
ATOM	11187	2HB	SER	J	130	24.597	32.836-153.261	1.00	0.00	H
ATOM	11188	OG	SER	J	130	22.984	32.736-154.515	1.00	0.00	O

ATOM	11189	HG	SER	J	130	22.054	32.445-154.484	1.00	0.00	H
ATOM	11190	N	CYS	J	131	24.240	29.624-151.248	1.00	0.00	N
ATOM	11191	H	CYS	J	131	23.256	29.409-151.338	1.00	0.00	H
ATOM	11192	CA	CYS	J	131	24.927	29.145-150.040	1.00	0.00	C
ATOM	11193	HA	CYS	J	131	25.957	29.505-150.025	1.00	0.00	H
ATOM	11194	C	CYS	J	131	24.987	27.609-149.947	1.00	0.00	C
ATOM	11195	O	CYS	J	131	25.961	27.058-149.440	1.00	0.00	O
ATOM	11196	CB	CYS	J	131	24.205	29.700-148.806	1.00	0.00	C
ATOM	11197	1HB	CYS	J	131	23.144	29.445-148.846	1.00	0.00	H
ATOM	11198	2HB	CYS	J	131	24.637	29.246-147.915	1.00	0.00	H
ATOM	11199	SG	CYS	J	131	24.391	31.498-148.675	1.00	0.00	S
ATOM	11200	HG	CYS	J	131	23.748	31.594-147.498	1.00	0.00	H
ATOM	11201	N	GLY	J	132	23.977	26.903-150.462	1.00	0.00	N
ATOM	11202	H	GLY	J	132	23.172	27.409-150.822	1.00	0.00	H
ATOM	11203	CA	GLY	J	132	23.945	25.445-150.560	1.00	0.00	C
ATOM	11204	1HA	GLY	J	132	24.933	25.076-150.836	1.00	0.00	H
ATOM	11205	2HA	GLY	J	132	23.666	25.016-149.598	1.00	0.00	H
ATOM	11206	C	GLY	J	132	22.923	25.013-151.608	1.00	0.00	C
ATOM	11207	O	GLY	J	132	21.811	25.531-151.643	1.00	0.00	O
ATOM	11208	N	THR	J	133	23.305	24.098-152.504	1.00	0.00	N
ATOM	11209	H	THR	J	133	24.222	23.692-152.418	1.00	0.00	H
ATOM	11210	CA	THR	J	133	22.484	23.775-153.683	1.00	0.00	C
ATOM	11211	HA	THR	J	133	22.374	24.706-154.237	1.00	0.00	H
ATOM	11212	C	THR	J	133	21.070	23.309-153.312	1.00	0.00	C
ATOM	11213	O	THR	J	133	20.886	22.327-152.595	1.00	0.00	O
ATOM	11214	CB	THR	J	133	23.201	22.810-154.641	1.00	0.00	C
ATOM	11215	HB	THR	J	133	24.149	23.271-154.925	1.00	0.00	H
ATOM	11216	OG1	THR	J	133	22.432	22.631-155.804	1.00	0.00	O
ATOM	11217	HG1	THR	J	133	21.807	21.922-155.622	1.00	0.00	H
ATOM	11218	CG2	THR	J	133	23.495	21.411-154.106	1.00	0.00	C
ATOM	11219	1HG2	THR	J	133	24.201	20.913-154.770	1.00	0.00	H
ATOM	11220	2HG2	THR	J	133	22.576	20.829-154.073	1.00	0.00	H
ATOM	11221	3HG2	THR	J	133	23.927	21.470-153.108	1.00	0.00	H
ATOM	11222	N	VAL	J	134	20.071	24.013-153.848	1.00	0.00	N
ATOM	11223	H	VAL	J	134	20.316	24.791-154.440	1.00	0.00	H
ATOM	11224	CA	VAL	J	134	18.632	23.765-153.684	1.00	0.00	C
ATOM	11225	HA	VAL	J	134	18.491	22.759-153.295	1.00	0.00	H
ATOM	11226	C	VAL	J	134	17.982	23.843-155.071	1.00	0.00	C
ATOM	11227	O	VAL	J	134	18.497	24.550-155.942	1.00	0.00	O
ATOM	11228	CB	VAL	J	134	18.032	24.749-152.655	1.00	0.00	C
ATOM	11229	HB	VAL	J	134	18.787	24.953-151.894	1.00	0.00	H
ATOM	11230	CG1	VAL	J	134	17.593	26.089-153.252	1.00	0.00	C
ATOM	11231	1HG1	VAL	J	134	18.449	26.579-153.704	1.00	0.00	H
ATOM	11232	2HG1	VAL	J	134	17.195	26.728-152.467	1.00	0.00	H
ATOM	11233	3HG1	VAL	J	134	16.812	25.951-154.000	1.00	0.00	H
ATOM	11234	CG2	VAL	J	134	16.837	24.141-151.926	1.00	0.00	C
ATOM	11235	1HG2	VAL	J	134	17.131	23.203-151.455	1.00	0.00	H
ATOM	11236	2HG2	VAL	J	134	16.021	23.963-152.625	1.00	0.00	H
ATOM	11237	3HG2	VAL	J	134	16.506	24.824-151.145	1.00	0.00	H
ATOM	11238	N	ASN	J	135	16.909	23.088-155.315	1.00	0.00	N
ATOM	11239	H	ASN	J	135	16.526	22.535-154.551	1.00	0.00	H
ATOM	11240	CA	ASN	J	135	16.438	22.794-156.674	1.00	0.00	C
ATOM	11241	HA	ASN	J	135	16.993	23.396-157.396	1.00	0.00	H
ATOM	11242	C	ASN	J	135	14.967	23.167-156.901	1.00	0.00	C
ATOM	11243	O	ASN	J	135	14.707	23.973-157.795	1.00	0.00	O
ATOM	11244	CB	ASN	J	135	16.767	21.321-156.978	1.00	0.00	C
ATOM	11245	1HB	ASN	J	135	17.828	21.238-157.197	1.00	0.00	H
ATOM	11246	2HB	ASN	J	135	16.565	20.709-156.100	1.00	0.00	H
ATOM	11247	CG	ASN	J	135	16.011	20.750-158.164	1.00	0.00	C
ATOM	11248	OD1	ASN	J	135	16.206	21.126-159.306	1.00	0.00	O
ATOM	11249	ND2	ASN	J	135	15.126	19.816-157.932	1.00	0.00	N
ATOM	11250	1HD2	ASN	J	135	14.640	19.415-158.705	1.00	0.00	H
ATOM	11251	2HD2	ASN	J	135	14.885	19.610-156.953	1.00	0.00	H
ATOM	11252	N	ARG	J	136	14.009	22.639-156.126	1.00	0.00	N
ATOM	11253	H	ARG	J	136	14.276	21.904-155.471	1.00	0.00	H
ATOM	11254	CA	ARG	J	136	12.568	22.948-156.279	1.00	0.00	C
ATOM	11255	HA	ARG	J	136	12.444	23.648-157.101	1.00	0.00	H
ATOM	11256	C	ARG	J	136	11.986	23.715-155.094	1.00	0.00	C
ATOM	11257	O	ARG	J	136	12.615	23.826-154.045	1.00	0.00	O
ATOM	11258	CB	ARG	J	136	11.778	21.659-156.605	1.00	0.00	C
ATOM	11259	1HB	ARG	J	136	12.421	20.786-156.503	1.00	0.00	H
ATOM	11260	2HB	ARG	J	136	10.975	21.535-155.877	1.00	0.00	H
ATOM	11261	CG	ARG	J	136	11.151	21.621-158.009	1.00	0.00	C
ATOM	11262	1HG	ARG	J	136	10.549	20.715-158.059	1.00	0.00	H
ATOM	11263	2HG	ARG	J	136	10.476	22.468-158.132	1.00	0.00	H
ATOM	11264	CD	ARG	J	136	12.166	21.579-159.169	1.00	0.00	C
ATOM	11265	1HD	ARG	J	136	12.945	20.857-158.927	1.00	0.00	H

ATOM	11266	2HD	ARG	J	136	11.669	21.226-160.071	1.00	0.00	H
ATOM	11267	NE	ARG	J	136	12.781	22.890-159.435	1.00	0.00	N
ATOM	11268	HE	ARG	J	136	13.687	23.072-159.017	1.00	0.00	H
ATOM	11269	CZ	ARG	J	136	12.201	23.962-159.936	1.00	0.00	C
ATOM	11270	NH1	ARG	J	136	11.060	23.920-160.546	1.00	0.00	N
ATOM	11271	1HH1	ARG	J	136	10.586	23.046-160.709	1.00	0.00	H
ATOM	11272	2HH1	ARG	J	136	10.706	24.825-160.867	1.00	0.00	H
ATOM	11273	NH2	ARG	J	136	12.724	25.139-159.804	1.00	0.00	N
ATOM	11274	1HH2	ARG	J	136	13.536	25.318-159.225	1.00	0.00	H
ATOM	11275	2HH2	ARG	J	136	12.181	25.931-160.154	1.00	0.00	H
ATOM	11276	N	VAL	J	137	10.784	24.260-155.304	1.00	0.00	N
ATOM	11277	H	VAL	J	137	10.330	24.063-156.182	1.00	0.00	H
ATOM	11278	CA	VAL	J	137	10.084	25.212-154.425	1.00	0.00	C
ATOM	11279	HA	VAL	J	137	10.397	25.035-153.399	1.00	0.00	H
ATOM	11280	C	VAL	J	137	8.564	25.022-154.505	1.00	0.00	C
ATOM	11281	O	VAL	J	137	8.042	24.579-155.530	1.00	0.00	O
ATOM	11282	CB	VAL	J	137	10.472	26.663-154.813	1.00	0.00	C
ATOM	11283	HB	VAL	J	137	11.559	26.734-154.772	1.00	0.00	H
ATOM	11284	CG1	VAL	J	137	10.045	27.051-156.237	1.00	0.00	C
ATOM	11285	1HG1	VAL	J	137	8.964	26.990-156.350	1.00	0.00	H
ATOM	11286	2HG1	VAL	J	137	10.525	26.402-156.969	1.00	0.00	H
ATOM	11287	3HG1	VAL	J	137	10.356	28.075-156.439	1.00	0.00	H
ATOM	11288	CG2	VAL	J	137	9.914	27.725-153.854	1.00	0.00	C
ATOM	11289	1HG2	VAL	J	137	10.413	28.677-154.040	1.00	0.00	H
ATOM	11290	2HG2	VAL	J	137	10.096	27.435-152.819	1.00	0.00	H
ATOM	11291	3HG2	VAL	J	137	8.843	27.860-154.002	1.00	0.00	H
ATOM	11292	N	THR	J	138	7.839	25.400-153.454	1.00	0.00	N
ATOM	11293	H	THR	J	138	8.340	25.638-152.599	1.00	0.00	H
ATOM	11294	CA	THR	J	138	6.389	25.685-153.452	1.00	0.00	C
ATOM	11295	HA	THR	J	138	6.111	26.146-154.399	1.00	0.00	H
ATOM	11296	C	THR	J	138	6.094	26.707-152.342	1.00	0.00	C
ATOM	11297	O	THR	J	138	6.843	26.793-151.368	1.00	0.00	O
ATOM	11298	CB	THR	J	138	5.591	24.375-153.310	1.00	0.00	C
ATOM	11299	HB	THR	J	138	6.066	23.751-152.555	1.00	0.00	H
ATOM	11300	OG1	THR	J	138	5.637	23.719-154.560	1.00	0.00	O
ATOM	11301	HG1	THR	J	138	6.522	23.878-154.929	1.00	0.00	H
ATOM	11302	CG2	THR	J	138	4.111	24.532-152.970	1.00	0.00	C
ATOM	11303	1HG2	THR	J	138	3.994	24.958-151.974	1.00	0.00	H
ATOM	11304	2HG2	THR	J	138	3.638	23.549-152.970	1.00	0.00	H
ATOM	11305	3HG2	THR	J	138	3.615	25.165-153.707	1.00	0.00	H
ATOM	11306	N	ILE	J	139	5.064	27.542-152.517	1.00	0.00	N
ATOM	11307	H	ILE	J	139	4.418	27.377-153.276	1.00	0.00	H
ATOM	11308	CA	ILE	J	139	4.828	28.764-151.725	1.00	0.00	C
ATOM	11309	HA	ILE	J	139	5.243	28.624-150.729	1.00	0.00	H
ATOM	11310	C	ILE	J	139	3.328	29.045-151.558	1.00	0.00	C
ATOM	11311	O	ILE	J	139	2.529	28.698-152.428	1.00	0.00	O
ATOM	11312	CB	ILE	J	139	5.559	29.961-152.391	1.00	0.00	C
ATOM	11313	HB	ILE	J	139	6.606	29.673-152.502	1.00	0.00	H
ATOM	11314	CG1	ILE	J	139	5.528	31.233-151.513	1.00	0.00	C
ATOM	11315	1HG1	ILE	J	139	4.532	31.676-151.529	1.00	0.00	H
ATOM	11316	2HG1	ILE	J	139	5.753	30.953-150.488	1.00	0.00	H
ATOM	11317	CG2	ILE	J	139	5.002	30.267-153.796	1.00	0.00	C
ATOM	11318	1HG2	ILE	J	139	5.542	31.098-154.240	1.00	0.00	H
ATOM	11319	2HG2	ILE	J	139	3.949	30.548-153.740	1.00	0.00	H
ATOM	11320	3HG2	ILE	J	139	5.105	29.401-154.449	1.00	0.00	H
ATOM	11321	CD1	ILE	J	139	6.544	32.306-151.928	1.00	0.00	C
ATOM	11322	1HD1	ILE	J	139	7.544	31.875-151.985	1.00	0.00	H
ATOM	11323	2HD1	ILE	J	139	6.546	33.105-151.187	1.00	0.00	H
ATOM	11324	3HD1	ILE	J	139	6.272	32.737-152.889	1.00	0.00	H
ATOM	11325	N	LEU	J	140	2.962	29.715-150.465	1.00	0.00	N
ATOM	11326	H	LEU	J	140	3.668	29.899-149.756	1.00	0.00	H
ATOM	11327	CA	LEU	J	140	1.608	30.161-150.159	1.00	0.00	C
ATOM	11328	HA	LEU	J	140	1.061	30.273-151.095	1.00	0.00	H
ATOM	11329	C	LEU	J	140	1.651	31.530-149.455	1.00	0.00	C
ATOM	11330	O	LEU	J	140	2.101	31.665-148.322	1.00	0.00	O
ATOM	11331	CB	LEU	J	140	0.926	29.060-149.322	1.00	0.00	C
ATOM	11332	1HB	LEU	J	140	0.965	28.131-149.894	1.00	0.00	H
ATOM	11333	2HB	LEU	J	140	1.506	28.908-148.411	1.00	0.00	H
ATOM	11334	CG	LEU	J	140	-0.540	29.319-148.927	1.00	0.00	C
ATOM	11335	HG	LEU	J	140	-0.586	30.131-148.202	1.00	0.00	H
ATOM	11336	CD1	LEU	J	140	-1.423	29.681-150.126	1.00	0.00	C
ATOM	11337	1HD1	LEU	J	140	-1.159	30.671-150.496	1.00	0.00	H
ATOM	11338	2HD1	LEU	J	140	-2.471	29.684-149.835	1.00	0.00	H
ATOM	11339	3HD1	LEU	J	140	-1.278	28.948-150.921	1.00	0.00	H
ATOM	11340	CD2	LEU	J	140	-1.135	28.058-148.296	1.00	0.00	C
ATOM	11341	1HD2	LEU	J	140	-1.207	27.261-149.036	1.00	0.00	H
ATOM	11342	2HD2	LEU	J	140	-2.121	28.266-147.882	1.00	0.00	H

ATOM	11343	3HD2	LEU	J	140	-0.496	27.712-147.483	1.00	0.00	H
ATOM	11344	N	THR	J	141	1.189	32.576-150.140	1.00	0.00	N
ATOM	11345	H	THR	J	141	0.922	32.447-151.102	1.00	0.00	H
ATOM	11346	CA	THR	J	141	0.869	33.864-149.502	1.00	0.00	C
ATOM	11347	HA	THR	J	141	1.725	34.182-148.912	1.00	0.00	H
ATOM	11348	C	THR	J	141	-0.319	33.715-148.546	1.00	0.00	C
ATOM	11349	O	THR	J	141	-1.196	32.881-148.763	1.00	0.00	O
ATOM	11350	CB	THR	J	141	0.598	34.929-150.580	1.00	0.00	C
ATOM	11351	HB	THR	J	141	-0.071	34.506-151.331	1.00	0.00	H
ATOM	11352	OG1	THR	J	141	1.825	35.241-151.194	1.00	0.00	O
ATOM	11353	HG1	THR	J	141	2.339	35.778-150.568	1.00	0.00	H
ATOM	11354	CG2	THR	J	141	-0.004	36.252-150.102	1.00	0.00	C
ATOM	11355	1HG2	THR	J	141	-1.037	36.097-149.791	1.00	0.00	H
ATOM	11356	2HG2	THR	J	141	-0.000	36.969-150.924	1.00	0.00	H
ATOM	11357	3HG2	THR	J	141	0.565	36.661-149.269	1.00	0.00	H
ATOM	11358	N	ASP	J	142	-0.339	34.545-147.504	1.00	0.00	N
ATOM	11359	H	ASP	J	142	0.473	35.128-147.394	1.00	0.00	H
ATOM	11360	CA	ASP	J	142	-1.386	34.766-146.493	1.00	0.00	C
ATOM	11361	HA	ASP	J	142	-1.273	34.006-145.719	1.00	0.00	H
ATOM	11362	C	ASP	J	142	-2.856	34.715-146.989	1.00	0.00	C
ATOM	11363	O	ASP	J	142	-3.156	34.972-148.154	1.00	0.00	O
ATOM	11364	CB	ASP	J	142	-1.034	36.134-145.877	1.00	0.00	C
ATOM	11365	1HB	ASP	J	142	-0.006	36.091-145.525	1.00	0.00	H
ATOM	11366	2HB	ASP	J	142	-1.096	36.897-146.655	1.00	0.00	H
ATOM	11367	CG	ASP	J	142	-1.875	36.577-144.687	1.00	0.00	C
ATOM	11368	OD1	ASP	J	142	-2.555	35.717-144.084	1.00	0.00	O
ATOM	11369	OD2	ASP	J	142	-1.809	37.779-144.350	1.00	0.00	O
ATOM	11370	N	LYS	J	143	-3.790	34.367-146.090	1.00	0.00	N
ATOM	11371	H	LYS	J	143	-3.445	34.180-145.146	1.00	0.00	H
ATOM	11372	CA	LYS	J	143	-5.258	34.400-146.267	1.00	0.00	C
ATOM	11373	HA	LYS	J	143	-5.484	34.867-147.227	1.00	0.00	H
ATOM	11374	C	LYS	J	143	-6.001	35.250-145.217	1.00	0.00	C
ATOM	11375	O	LYS	J	143	-7.203	35.441-145.370	1.00	0.00	O
ATOM	11376	CB	LYS	J	143	-5.850	32.966-146.212	1.00	0.00	C
ATOM	11377	1HB	LYS	J	143	-5.088	32.220-145.997	1.00	0.00	H
ATOM	11378	2HB	LYS	J	143	-6.534	32.900-145.363	1.00	0.00	H
ATOM	11379	CG	LYS	J	143	-6.657	32.582-147.466	1.00	0.00	C
ATOM	11380	1HG	LYS	J	143	-7.543	32.035-147.141	1.00	0.00	H
ATOM	11381	2HG	LYS	J	143	-7.013	33.486-147.962	1.00	0.00	H
ATOM	11382	CD	LYS	J	143	-5.931	31.697-148.493	1.00	0.00	C
ATOM	11383	1HD	LYS	J	143	-5.875	30.676-148.112	1.00	0.00	H
ATOM	11384	2HD	LYS	J	143	-6.547	31.674-149.394	1.00	0.00	H
ATOM	11385	CE	LYS	J	143	-4.527	32.172-148.888	1.00	0.00	C
ATOM	11386	1HE	LYS	J	143	-4.294	31.792-149.886	1.00	0.00	H
ATOM	11387	2HE	LYS	J	143	-4.521	33.267-148.944	1.00	0.00	H
ATOM	11388	NZ	LYS	J	143	-3.491	31.705-147.935	1.00	0.00	N
ATOM	11389	1HZ	LYS	J	143	-2.581	32.050-148.238	1.00	0.00	H
ATOM	11390	2HZ	LYS	J	143	-3.443	30.700-147.864	1.00	0.00	H
ATOM	11391	3HZ	LYS	J	143	-3.644	32.100-147.015	1.00	0.00	H
ATOM	11392	N	PHE	J	144	-5.343	35.666-144.133	1.00	0.00	N
ATOM	11393	H	PHE	J	144	-4.335	35.554-144.125	1.00	0.00	H
ATOM	11394	CA	PHE	J	144	-6.002	36.056-142.875	1.00	0.00	C
ATOM	11395	HA	PHE	J	144	-6.937	36.575-143.092	1.00	0.00	H
ATOM	11396	C	PHE	J	144	-5.174	36.984-141.959	1.00	0.00	C
ATOM	11397	O	PHE	J	144	-5.742	37.826-141.271	1.00	0.00	O
ATOM	11398	CB	PHE	J	144	-6.320	34.746-142.124	1.00	0.00	C
ATOM	11399	1HB	PHE	J	144	-7.048	34.177-142.703	1.00	0.00	H
ATOM	11400	2HB	PHE	J	144	-5.410	34.145-142.071	1.00	0.00	H
ATOM	11401	CG	PHE	J	144	-6.865	34.915-140.718	1.00	0.00	C
ATOM	11402	CD1	PHE	J	144	-8.162	35.424-140.521	1.00	0.00	C
ATOM	11403	HD1	PHE	J	144	-8.769	35.697-141.372	1.00	0.00	H
ATOM	11404	CD2	PHE	J	144	-6.067	34.585-139.604	1.00	0.00	C
ATOM	11405	HD2	PHE	J	144	-5.065	34.206-139.742	1.00	0.00	H
ATOM	11406	CE1	PHE	J	144	-8.655	35.614-139.218	1.00	0.00	C
ATOM	11407	HE1	PHE	J	144	-9.638	36.035-139.068	1.00	0.00	H
ATOM	11408	CE2	PHE	J	144	-6.560	34.775-138.301	1.00	0.00	C
ATOM	11409	HE2	PHE	J	144	-5.934	34.550-137.448	1.00	0.00	H
ATOM	11410	CZ	PHE	J	144	-7.852	35.294-138.108	1.00	0.00	C
ATOM	11411	HZ	PHE	J	144	-8.219	35.463-137.105	1.00	0.00	H
ATOM	11412	N	GLY	J	145	-3.849	36.832-141.935	1.00	0.00	N
ATOM	11413	H	GLY	J	145	-3.434	36.280-142.677	1.00	0.00	H
ATOM	11414	CA	GLY	J	145	-2.923	37.503-141.012	1.00	0.00	C
ATOM	11415	1HA	GLY	J	145	-2.866	38.558-141.274	1.00	0.00	H
ATOM	11416	2HA	GLY	J	145	-3.318	37.422-139.999	1.00	0.00	H
ATOM	11417	C	GLY	J	145	-1.498	36.917-141.010	1.00	0.00	C
ATOM	11418	O	GLY	J	145	-0.561	37.625-140.650	1.00	0.00	O
ATOM	11419	N	GLN	J	146	-1.348	35.676-141.491	1.00	0.00	N

ATOM	11420	H	GLN	J	146	-2.180	35.294-141.910	1.00	0.00	H
ATOM	11421	CA	GLN	J	146	-0.151	34.822-141.637	1.00	0.00	C
ATOM	11422	HA	GLN	J	146	0.125	34.430-140.659	1.00	0.00	H
ATOM	11423	C	GLN	J	146	1.077	35.531-142.262	1.00	0.00	C
ATOM	11424	O	GLN	J	146	0.914	36.567-142.909	1.00	0.00	O
ATOM	11425	CB	GLN	J	146	-0.551	33.648-142.565	1.00	0.00	C
ATOM	11426	1HB	GLN	J	146	-0.713	34.055-143.560	1.00	0.00	H
ATOM	11427	2HB	GLN	J	146	0.272	32.942-142.660	1.00	0.00	H
ATOM	11428	CG	GLN	J	146	-1.806	32.853-142.156	1.00	0.00	C
ATOM	11429	1HG	GLN	J	146	-1.556	32.190-141.327	1.00	0.00	H
ATOM	11430	2HG	GLN	J	146	-2.605	33.515-141.829	1.00	0.00	H
ATOM	11431	CD	GLN	J	146	-2.353	32.039-143.325	1.00	0.00	C
ATOM	11432	OE1	GLN	J	146	-3.224	32.468-144.070	1.00	0.00	O
ATOM	11433	NE2	GLN	J	146	-1.851	30.852-143.547	1.00	0.00	N
ATOM	11434	1HE2	GLN	J	146	-2.317	30.195-144.169	1.00	0.00	H
ATOM	11435	2HE2	GLN	J	146	-1.127	30.454-142.971	1.00	0.00	H
ATOM	11436	N	PRO	J	147	2.299	34.956-142.226	1.00	0.00	N
ATOM	11437	CA	PRO	J	147	3.397	35.402-143.089	1.00	0.00	C
ATOM	11438	HA	PRO	J	147	3.724	36.395-142.780	1.00	0.00	H
ATOM	11439	C	PRO	J	147	2.961	35.450-144.559	1.00	0.00	C
ATOM	11440	O	PRO	J	147	2.198	34.609-145.033	1.00	0.00	O
ATOM	11441	CB	PRO	J	147	4.536	34.406-142.868	1.00	0.00	C
ATOM	11442	1HB	PRO	J	147	5.097	34.205-143.780	1.00	0.00	H
ATOM	11443	2HB	PRO	J	147	5.187	34.780-142.078	1.00	0.00	H
ATOM	11444	CG	PRO	J	147	3.818	33.160-142.368	1.00	0.00	C
ATOM	11445	1HG	PRO	J	147	3.363	32.625-143.194	1.00	0.00	H
ATOM	11446	2HG	PRO	J	147	4.490	32.505-141.821	1.00	0.00	H
ATOM	11447	CD	PRO	J	147	2.716	33.763-141.508	1.00	0.00	C
ATOM	11448	1HD	PRO	J	147	1.917	33.042-141.349	1.00	0.00	H
ATOM	11449	2HD	PRO	J	147	3.143	34.058-140.553	1.00	0.00	H
ATOM	11450	N	LYS	J	148	3.440	36.441-145.312	1.00	0.00	N
ATOM	11451	H	LYS	J	148	4.187	37.023-144.940	1.00	0.00	H
ATOM	11452	CA	LYS	J	148	2.813	36.818-146.590	1.00	0.00	C
ATOM	11453	HA	LYS	J	148	1.794	36.445-146.586	1.00	0.00	H
ATOM	11454	C	LYS	J	148	3.433	36.111-147.813	1.00	0.00	C
ATOM	11455	O	LYS	J	148	3.085	36.421-148.951	1.00	0.00	O
ATOM	11456	CB	LYS	J	148	2.690	38.351-146.683	1.00	0.00	C
ATOM	11457	1HB	LYS	J	148	3.664	38.803-146.514	1.00	0.00	H
ATOM	11458	2HB	LYS	J	148	2.365	38.600-147.694	1.00	0.00	H
ATOM	11459	CG	LYS	J	148	1.665	38.988-145.713	1.00	0.00	C
ATOM	11460	1HG	LYS	J	148	1.349	39.938-146.147	1.00	0.00	H
ATOM	11461	2HG	LYS	J	148	0.785	38.351-145.646	1.00	0.00	H
ATOM	11462	CD	LYS	J	148	2.200	39.285-144.298	1.00	0.00	C
ATOM	11463	1HD	LYS	J	148	2.516	38.366-143.810	1.00	0.00	H
ATOM	11464	2HD	LYS	J	148	3.077	39.926-144.394	1.00	0.00	H
ATOM	11465	CE	LYS	J	148	1.179	40.003-143.396	1.00	0.00	C
ATOM	11466	1HE	LYS	J	148	1.710	40.360-142.508	1.00	0.00	H
ATOM	11467	2HE	LYS	J	148	0.778	40.872-143.924	1.00	0.00	H
ATOM	11468	NZ	LYS	J	148	0.070	39.124-142.952	1.00	0.00	N
ATOM	11469	1HZ	LYS	J	148	0.418	38.244-142.570	1.00	0.00	H
ATOM	11470	2HZ	LYS	J	148	-0.558	38.821-143.702	1.00	0.00	H
ATOM	11471	3HZ	LYS	J	148	-0.492	39.522-142.215	1.00	0.00	H
ATOM	11472	N	GLY	J	149	4.231	35.067-147.578	1.00	0.00	N
ATOM	11473	H	GLY	J	149	4.447	34.876-146.614	1.00	0.00	H
ATOM	11474	CA	GLY	J	149	4.793	34.181-148.606	1.00	0.00	C
ATOM	11475	1HA	GLY	J	149	3.993	33.836-149.261	1.00	0.00	H
ATOM	11476	2HA	GLY	J	149	5.511	34.740-149.207	1.00	0.00	H
ATOM	11477	C	GLY	J	149	5.496	32.942-148.037	1.00	0.00	C
ATOM	11478	O	GLY	J	149	6.606	32.633-148.464	1.00	0.00	O
ATOM	11479	N	PHE	J	150	4.921	32.277-147.026	1.00	0.00	N
ATOM	11480	H	PHE	J	150	3.943	32.447-146.830	1.00	0.00	H
ATOM	11481	CA	PHE	J	150	5.537	31.077-146.437	1.00	0.00	C
ATOM	11482	HA	PHE	J	150	6.549	31.336-146.138	1.00	0.00	H
ATOM	11483	C	PHE	J	150	5.672	29.939-147.460	1.00	0.00	C
ATOM	11484	O	PHE	J	150	4.871	29.810-148.386	1.00	0.00	O
ATOM	11485	CB	PHE	J	150	4.804	30.640-145.164	1.00	0.00	C
ATOM	11486	1HB	PHE	J	150	5.347	29.804-144.724	1.00	0.00	H
ATOM	11487	2HB	PHE	J	150	4.860	31.454-144.444	1.00	0.00	H
ATOM	11488	CG	PHE	J	150	3.355	30.234-145.340	1.00	0.00	C
ATOM	11489	CD1	PHE	J	150	2.342	31.209-145.307	1.00	0.00	C
ATOM	11490	HD1	PHE	J	150	2.597	32.247-145.202	1.00	0.00	H
ATOM	11491	CD2	PHE	J	150	3.011	28.881-145.513	1.00	0.00	C
ATOM	11492	HD2	PHE	J	150	3.775	28.119-145.537	1.00	0.00	H
ATOM	11493	CE1	PHE	J	150	0.995	30.844-145.432	1.00	0.00	C
ATOM	11494	HE1	PHE	J	150	0.224	31.600-145.409	1.00	0.00	H
ATOM	11495	CE2	PHE	J	150	1.663	28.513-145.640	1.00	0.00	C
ATOM	11496	HE2	PHE	J	150	1.399	27.471-145.751	1.00	0.00	H

ATOM	11497	CZ	PHE	J	150	0.657	29.493-145.598	1.00	0.00	C
ATOM	11498	HZ	PHE	J	150	-0.379	29.207-145.683	1.00	0.00	H
ATOM	11499	N	ALA	J	151	6.730	29.138-147.334	1.00	0.00	N
ATOM	11500	H	ALA	J	151	7.314	29.231-146.510	1.00	0.00	H
ATOM	11501	CA	ALA	J	151	7.208	28.301-148.436	1.00	0.00	C
ATOM	11502	HA	ALA	J	151	6.364	27.978-149.044	1.00	0.00	H
ATOM	11503	C	ALA	J	151	7.934	27.038-147.963	1.00	0.00	C
ATOM	11504	O	ALA	J	151	8.249	26.890-146.783	1.00	0.00	O
ATOM	11505	CB	ALA	J	151	8.151	29.164-149.295	1.00	0.00	C
ATOM	11506	1HB	ALA	J	151	8.453	28.620-150.190	1.00	0.00	H
ATOM	11507	2HB	ALA	J	151	9.040	29.427-148.720	1.00	0.00	H
ATOM	11508	3HB	ALA	J	151	7.650	30.081-149.599	1.00	0.00	H
ATOM	11509	N	TYR	J	152	8.280	26.162-148.908	1.00	0.00	N
ATOM	11510	H	TYR	J	152	7.949	26.319-149.856	1.00	0.00	H
ATOM	11511	CA	TYR	J	152	9.321	25.155-148.717	1.00	0.00	C
ATOM	11512	HA	TYR	J	152	10.010	25.560-147.982	1.00	0.00	H
ATOM	11513	C	TYR	J	152	10.136	24.916-149.999	1.00	0.00	C
ATOM	11514	O	TYR	J	152	9.673	25.192-151.108	1.00	0.00	O
ATOM	11515	CB	TYR	J	152	8.727	23.851-148.148	1.00	0.00	C
ATOM	11516	1HB	TYR	J	152	9.546	23.180-147.887	1.00	0.00	H
ATOM	11517	2HB	TYR	J	152	8.204	24.081-147.219	1.00	0.00	H
ATOM	11518	CG	TYR	J	152	7.776	23.110-149.068	1.00	0.00	C
ATOM	11519	CD1	TYR	J	152	8.245	22.047-149.866	1.00	0.00	C
ATOM	11520	HD1	TYR	J	152	9.287	21.759-149.825	1.00	0.00	H
ATOM	11521	CD2	TYR	J	152	6.419	23.481-149.119	1.00	0.00	C
ATOM	11522	HD2	TYR	J	152	6.052	24.299-148.513	1.00	0.00	H
ATOM	11523	CE1	TYR	J	152	7.363	21.371-150.733	1.00	0.00	C
ATOM	11524	HE1	TYR	J	152	7.721	20.562-151.351	1.00	0.00	H
ATOM	11525	CE2	TYR	J	152	5.536	22.804-149.980	1.00	0.00	C
ATOM	11526	HE2	TYR	J	152	4.491	23.080-150.026	1.00	0.00	H
ATOM	11527	CZ	TYR	J	152	6.005	21.755-150.795	1.00	0.00	C
ATOM	11528	OH	TYR	J	152	5.146	21.134-151.643	1.00	0.00	O
ATOM	11529	HH	TYR	J	152	5.546	20.414-152.126	1.00	0.00	H
ATOM	11530	N	VAL	J	153	11.363	24.410-149.839	1.00	0.00	N
ATOM	11531	H	VAL	J	153	11.669	24.232-148.886	1.00	0.00	H
ATOM	11532	CA	VAL	J	153	12.335	24.127-150.919	1.00	0.00	C
ATOM	11533	HA	VAL	J	153	11.783	23.977-151.842	1.00	0.00	H
ATOM	11534	C	VAL	J	153	13.121	22.839-150.641	1.00	0.00	C
ATOM	11535	O	VAL	J	153	13.182	22.418-149.489	1.00	0.00	O
ATOM	11536	CB	VAL	J	153	13.329	25.294-151.121	1.00	0.00	C
ATOM	11537	HB	VAL	J	153	14.049	24.993-151.880	1.00	0.00	H
ATOM	11538	CG1	VAL	J	153	12.666	26.573-151.631	1.00	0.00	C
ATOM	11539	1HG1	VAL	J	153	11.953	26.956-150.901	1.00	0.00	H
ATOM	11540	2HG1	VAL	J	153	12.154	26.348-152.560	1.00	0.00	H
ATOM	11541	3HG1	VAL	J	153	13.424	27.330-151.827	1.00	0.00	H
ATOM	11542	CG2	VAL	J	153	14.107	25.646-149.849	1.00	0.00	C
ATOM	11543	1HG2	VAL	J	153	13.430	26.007-149.074	1.00	0.00	H
ATOM	11544	2HG2	VAL	J	153	14.840	26.418-150.068	1.00	0.00	H
ATOM	11545	3HG2	VAL	J	153	14.641	24.770-149.490	1.00	0.00	H
ATOM	11546	N	GLU	J	154	13.737	22.205-151.649	1.00	0.00	N
ATOM	11547	H	GLU	J	154	13.674	22.604-152.580	1.00	0.00	H
ATOM	11548	CA	GLU	J	154	14.374	20.875-151.498	1.00	0.00	C
ATOM	11549	HA	GLU	J	154	14.604	20.727-150.445	1.00	0.00	H
ATOM	11550	C	GLU	J	154	15.714	20.674-152.228	1.00	0.00	C
ATOM	11551	O	GLU	J	154	16.046	21.403-153.166	1.00	0.00	O
ATOM	11552	CB	GLU	J	154	13.369	19.771-151.899	1.00	0.00	C
ATOM	11553	1HB	GLU	J	154	13.748	18.803-151.572	1.00	0.00	H
ATOM	11554	2HB	GLU	J	154	12.447	19.955-151.351	1.00	0.00	H
ATOM	11555	CG	GLU	J	154	12.990	19.675-153.388	1.00	0.00	C
ATOM	11556	1HG	GLU	J	154	12.136	19.000-153.476	1.00	0.00	H
ATOM	11557	2HG	GLU	J	154	12.659	20.658-153.731	1.00	0.00	H
ATOM	11558	CD	GLU	J	154	14.110	19.150-154.300	1.00	0.00	C
ATOM	11559	OE1	GLU	J	154	14.393	19.829-155.311	1.00	0.00	O
ATOM	11560	OE2	GLU	J	154	14.704	18.085-154.013	1.00	0.00	O
ATOM	11561	N	PHE	J	155	16.445	19.620-151.837	1.00	0.00	N
ATOM	11562	H	PHE	J	155	16.114	19.094-151.035	1.00	0.00	H
ATOM	11563	CA	PHE	J	155	17.399	18.941-152.725	1.00	0.00	C
ATOM	11564	HA	PHE	J	155	17.003	19.011-153.740	1.00	0.00	H
ATOM	11565	C	PHE	J	155	17.541	17.447-152.375	1.00	0.00	C
ATOM	11566	O	PHE	J	155	18.076	17.079-151.324	1.00	0.00	O
ATOM	11567	CB	PHE	J	155	18.766	19.639-152.728	1.00	0.00	C
ATOM	11568	1HB	PHE	J	155	18.617	20.709-152.604	1.00	0.00	H
ATOM	11569	2HB	PHE	J	155	19.349	19.309-151.870	1.00	0.00	H
ATOM	11570	CG	PHE	J	155	19.553	19.412-154.013	1.00	0.00	C
ATOM	11571	CD1	PHE	J	155	19.555	20.400-155.014	1.00	0.00	C
ATOM	11572	HD1	PHE	J	155	18.982	21.298-154.872	1.00	0.00	H
ATOM	11573	CD2	PHE	J	155	20.276	18.222-154.224	1.00	0.00	C



ATOM	11574	HD2	PHE	J	155	20.283	17.457-153.462	1.00	0.00	H
ATOM	11575	CE1	PHE	J	155	20.285	20.223-156.202	1.00	0.00	C
ATOM	11576	HE1	PHE	J	155	20.270	20.987-156.968	1.00	0.00	H
ATOM	11577	CE2	PHE	J	155	21.017	18.045-155.409	1.00	0.00	C
ATOM	11578	HE2	PHE	J	155	21.593	17.146-155.562	1.00	0.00	H
ATOM	11579	CZ	PHE	J	155	21.023	19.045-156.397	1.00	0.00	C
ATOM	11580	HZ	PHE	J	155	21.589	18.906-157.307	1.00	0.00	H
ATOM	11581	N	VAL	J	156	17.077	16.576-153.277	1.00	0.00	N
ATOM	11582	H	VAL	J	156	16.453	16.982-153.974	1.00	0.00	H
ATOM	11583	CA	VAL	J	156	17.042	15.106-153.114	1.00	0.00	C
ATOM	11584	HA	VAL	J	156	16.277	14.895-152.369	1.00	0.00	H
ATOM	11585	C	VAL	J	156	18.348	14.477-152.596	1.00	0.00	C
ATOM	11586	O	VAL	J	156	18.292	13.695-151.648	1.00	0.00	O
ATOM	11587	CB	VAL	J	156	16.608	14.406-154.422	1.00	0.00	C
ATOM	11588	HB	VAL	J	156	17.401	14.514-155.163	1.00	0.00	H
ATOM	11589	CG1	VAL	J	156	16.353	12.908-154.200	1.00	0.00	C
ATOM	11590	1HG1	VAL	J	156	17.265	12.409-153.875	1.00	0.00	H
ATOM	11591	2HG1	VAL	J	156	16.028	12.445-155.132	1.00	0.00	H
ATOM	11592	3HG1	VAL	J	156	15.579	12.771-153.444	1.00	0.00	H
ATOM	11593	CG2	VAL	J	156	15.322	14.998-155.013	1.00	0.00	C
ATOM	11594	1HG2	VAL	J	156	14.535	15.023-154.258	1.00	0.00	H
ATOM	11595	2HG2	VAL	J	156	14.986	14.408-155.866	1.00	0.00	H
ATOM	11596	3HG2	VAL	J	156	15.500	16.014-155.364	1.00	0.00	H
ATOM	11597	N	GLU	J	157	19.515	14.785-153.173	1.00	0.00	N
ATOM	11598	H	GLU	J	157	19.521	15.478-153.904	1.00	0.00	H
ATOM	11599	CA	GLU	J	157	20.803	14.207-152.728	1.00	0.00	C
ATOM	11600	HA	GLU	J	157	20.662	13.127-152.651	1.00	0.00	H
ATOM	11601	C	GLU	J	157	21.218	14.680-151.323	1.00	0.00	C
ATOM	11602	O	GLU	J	157	20.967	15.824-150.941	1.00	0.00	O
ATOM	11603	CB	GLU	J	157	21.925	14.470-153.752	1.00	0.00	C
ATOM	11604	1HB	GLU	J	157	21.597	15.238-154.450	1.00	0.00	H
ATOM	11605	2HB	GLU	J	157	22.817	14.847-153.249	1.00	0.00	H
ATOM	11606	CG	GLU	J	157	22.306	13.216-154.559	1.00	0.00	C
ATOM	11607	1HG	GLU	J	157	21.397	12.777-154.980	1.00	0.00	H
ATOM	11608	2HG	GLU	J	157	22.933	13.537-155.395	1.00	0.00	H
ATOM	11609	CD	GLU	J	157	23.065	12.147-153.748	1.00	0.00	C
ATOM	11610	OE1	GLU	J	157	23.772	11.336-154.384	1.00	0.00	O
ATOM	11611	OE2	GLU	J	157	22.913	12.122-152.503	1.00	0.00	O
ATOM	11612	N	ILE	J	158	21.829	13.783-150.542	1.00	0.00	N
ATOM	11613	H	ILE	J	158	22.162	12.937-151.011	1.00	0.00	H
ATOM	11614	CA	ILE	J	158	21.837	13.809-149.068	1.00	0.00	C
ATOM	11615	HA	ILE	J	158	20.804	13.761-148.733	1.00	0.00	H
ATOM	11616	C	ILE	J	158	22.406	15.119-148.499	1.00	0.00	C
ATOM	11617	O	ILE	J	158	21.710	15.816-147.755	1.00	0.00	O
ATOM	11618	CB	ILE	J	158	22.535	12.541-148.506	1.00	0.00	C
ATOM	11619	HB	ILE	J	158	23.426	12.331-149.101	1.00	0.00	H
ATOM	11620	CG1	ILE	J	158	21.611	11.296-148.526	1.00	0.00	C
ATOM	11621	1HG1	ILE	J	158	22.143	10.465-148.062	1.00	0.00	H
ATOM	11622	2HG1	ILE	J	158	20.726	11.500-147.922	1.00	0.00	H
ATOM	11623	CG2	ILE	J	158	22.981	12.711-147.038	1.00	0.00	C
ATOM	11624	1HG2	ILE	J	158	23.763	13.467-146.955	1.00	0.00	H
ATOM	11625	2HG2	ILE	J	158	23.396	11.778-146.657	1.00	0.00	H
ATOM	11626	3HG2	ILE	J	158	22.134	13.006-146.416	1.00	0.00	H
ATOM	11627	CD1	ILE	J	158	21.149	10.809-149.904	1.00	0.00	C
ATOM	11628	1HD1	ILE	J	158	20.479	11.534-150.365	1.00	0.00	H
ATOM	11629	2HD1	ILE	J	158	20.608	9.870-149.789	1.00	0.00	H
ATOM	11630	3HD1	ILE	J	158	22.014	10.638-150.545	1.00	0.00	H
ATOM	11631	N	ASP	J	159	23.645	15.464-148.856	1.00	0.00	N
ATOM	11632	H	ASP	J	159	24.142	14.865-149.497	1.00	0.00	H
ATOM	11633	CA	ASP	J	159	24.381	16.573-148.230	1.00	0.00	C
ATOM	11634	HA	ASP	J	159	24.190	16.542-147.157	1.00	0.00	H
ATOM	11635	C	ASP	J	159	23.952	17.965-148.735	1.00	0.00	C
ATOM	11636	O	ASP	J	159	24.150	18.973-148.062	1.00	0.00	O
ATOM	11637	CB	ASP	J	159	25.886	16.355-148.444	1.00	0.00	C
ATOM	11638	1HB	ASP	J	159	26.134	15.319-148.207	1.00	0.00	H
ATOM	11639	2HB	ASP	J	159	26.132	16.532-149.493	1.00	0.00	H
ATOM	11640	CG	ASP	J	159	26.722	17.265-147.541	1.00	0.00	C
ATOM	11641	OD1	ASP	J	159	27.588	17.987-148.077	1.00	0.00	O
ATOM	11642	OD2	ASP	J	159	26.484	17.216-146.314	1.00	0.00	O
ATOM	11643	N	ALA	J	160	23.310	18.044-149.902	1.00	0.00	N
ATOM	11644	H	ALA	J	160	23.087	17.186-150.386	1.00	0.00	H
ATOM	11645	CA	ALA	J	160	22.929	19.313-150.518	1.00	0.00	C
ATOM	11646	HA	ALA	J	160	23.828	19.900-150.716	1.00	0.00	H
ATOM	11647	C	ALA	J	160	22.019	20.160-149.611	1.00	0.00	C
ATOM	11648	O	ALA	J	160	22.379	21.277-149.229	1.00	0.00	O
ATOM	11649	CB	ALA	J	160	22.254	18.985-151.843	1.00	0.00	C
ATOM	11650	1HB	ALA	J	160	21.818	19.892-152.254	1.00	0.00	H

ATOM	11651	2HB	ALA	J	160	21.458	18.262-151.677	1.00	0.00	H
ATOM	11652	3HB	ALA	J	160	22.980	18.573-152.545	1.00	0.00	H
ATOM	11653	N	VAL	J	161	20.880	19.597-149.182	1.00	0.00	N
ATOM	11654	H	VAL	J	161	20.619	18.693-149.548	1.00	0.00	H
ATOM	11655	CA	VAL	J	161	20.001	20.277-148.219	1.00	0.00	C
ATOM	11656	HA	VAL	J	161	19.869	21.290-148.593	1.00	0.00	H
ATOM	11657	C	VAL	J	161	20.644	20.407-146.831	1.00	0.00	C
ATOM	11658	O	VAL	J	161	20.315	21.339-146.110	1.00	0.00	O
ATOM	11659	CB	VAL	J	161	18.596	19.640-148.164	1.00	0.00	C
ATOM	11660	HB	VAL	J	161	18.354	19.262-149.158	1.00	0.00	H
ATOM	11661	CG1	VAL	J	161	18.499	18.473-147.175	1.00	0.00	C
ATOM	11662	1HG1	VAL	J	161	18.517	18.842-146.148	1.00	0.00	H
ATOM	11663	2HG1	VAL	J	161	19.335	17.796-147.326	1.00	0.00	H
ATOM	11664	3HG1	VAL	J	161	17.558	17.948-147.340	1.00	0.00	H
ATOM	11665	CG2	VAL	J	161	17.533	20.682-147.800	1.00	0.00	C
ATOM	11666	1HG2	VAL	J	161	17.741	21.113-146.821	1.00	0.00	H
ATOM	11667	2HG2	VAL	J	161	16.547	20.217-147.782	1.00	0.00	H
ATOM	11668	3HG2	VAL	J	161	17.525	21.477-148.546	1.00	0.00	H
ATOM	11669	N	GLN	J	162	21.584	19.527-146.456	1.00	0.00	N
ATOM	11670	H	GLN	J	162	21.883	18.828-147.119	1.00	0.00	H
ATOM	11671	CA	GLN	J	162	22.324	19.621-145.187	1.00	0.00	C
ATOM	11672	HA	GLN	J	162	21.599	19.707-144.379	1.00	0.00	H
ATOM	11673	C	GLN	J	162	23.213	20.878-145.114	1.00	0.00	C
ATOM	11674	O	GLN	J	162	23.382	21.439-144.036	1.00	0.00	O
ATOM	11675	CB	GLN	J	162	23.121	18.323-144.960	1.00	0.00	C
ATOM	11676	1HB	GLN	J	162	22.441	17.476-145.069	1.00	0.00	H
ATOM	11677	2HB	GLN	J	162	23.902	18.238-145.710	1.00	0.00	H
ATOM	11678	CG	GLN	J	162	23.783	18.241-143.578	1.00	0.00	C
ATOM	11679	1HG	GLN	J	162	24.610	18.951-143.528	1.00	0.00	H
ATOM	11680	2HG	GLN	J	162	23.054	18.502-142.811	1.00	0.00	H
ATOM	11681	CD	GLN	J	162	24.318	16.842-143.284	1.00	0.00	C
ATOM	11682	OE1	GLN	J	162	23.817	16.125-142.431	1.00	0.00	O
ATOM	11683	NE2	GLN	J	162	25.327	16.367-143.976	1.00	0.00	N
ATOM	11684	1HE2	GLN	J	162	25.663	15.461-143.735	1.00	0.00	H
ATOM	11685	2HE2	GLN	J	162	25.756	16.896-144.749	1.00	0.00	H
ATOM	11686	N	ASN	J	163	23.704	21.369-146.257	1.00	0.00	N
ATOM	11687	H	ASN	J	163	23.577	20.824-147.101	1.00	0.00	H
ATOM	11688	CA	ASN	J	163	24.323	22.693-146.364	1.00	0.00	C
ATOM	11689	HA	ASN	J	163	24.921	22.894-145.471	1.00	0.00	H
ATOM	11690	C	ASN	J	163	23.249	23.799-146.453	1.00	0.00	C
ATOM	11691	O	ASN	J	163	23.290	24.773-145.702	1.00	0.00	O
ATOM	11692	CB	ASN	J	163	25.255	22.717-147.592	1.00	0.00	C
ATOM	11693	1HB	ASN	J	163	24.721	22.380-148.478	1.00	0.00	H
ATOM	11694	2HB	ASN	J	163	25.579	23.745-147.763	1.00	0.00	H
ATOM	11695	CG	ASN	J	163	26.514	21.877-147.421	1.00	0.00	C
ATOM	11696	OD1	ASN	J	163	27.575	22.388-147.111	1.00	0.00	O
ATOM	11697	ND2	ASN	J	163	26.435	20.588-147.653	1.00	0.00	N
ATOM	11698	1HD2	ASN	J	163	27.259	20.000-147.565	1.00	0.00	H
ATOM	11699	2HD2	ASN	J	163	25.555	20.131-147.838	1.00	0.00	H
ATOM	11700	N	ALA	J	164	22.252	23.646-147.337	1.00	0.00	N
ATOM	11701	H	ALA	J	164	22.254	22.824-147.929	1.00	0.00	H
ATOM	11702	CA	ALA	J	164	21.223	24.670-147.575	1.00	0.00	C
ATOM	11703	HA	ALA	J	164	21.733	25.593-147.859	1.00	0.00	H
ATOM	11704	C	ALA	J	164	20.349	25.002-146.345	1.00	0.00	C
ATOM	11705	O	ALA	J	164	19.846	26.120-146.234	1.00	0.00	O
ATOM	11706	CB	ALA	J	164	20.349	24.236-148.758	1.00	0.00	C
ATOM	11707	1HB	ALA	J	164	19.745	25.082-149.090	1.00	0.00	H
ATOM	11708	2HB	ALA	J	164	19.683	23.432-148.453	1.00	0.00	H
ATOM	11709	3HB	ALA	J	164	20.970	23.903-149.591	1.00	0.00	H
ATOM	11710	N	LEU	J	165	20.171	24.059-145.409	1.00	0.00	N
ATOM	11711	H	LEU	J	165	20.546	23.134-145.591	1.00	0.00	H
ATOM	11712	CA	LEU	J	165	19.420	24.257-144.163	1.00	0.00	C
ATOM	11713	HA	LEU	J	165	18.532	24.835-144.417	1.00	0.00	H
ATOM	11714	C	LEU	J	165	20.168	25.079-143.100	1.00	0.00	C
ATOM	11715	O	LEU	J	165	19.536	25.479-142.126	1.00	0.00	O
ATOM	11716	CB	LEU	J	165	18.907	22.903-143.619	1.00	0.00	C
ATOM	11717	1HB	LEU	J	165	18.107	23.104-142.905	1.00	0.00	H
ATOM	11718	2HB	LEU	J	165	18.456	22.380-144.461	1.00	0.00	H
ATOM	11719	CG	LEU	J	165	19.918	21.947-142.948	1.00	0.00	C
ATOM	11720	HG	LEU	J	165	20.857	21.966-143.495	1.00	0.00	H
ATOM	11721	CD1	LEU	J	165	20.181	22.251-141.469	1.00	0.00	C
ATOM	11722	1HD1	LEU	J	165	20.634	23.230-141.346	1.00	0.00	H
ATOM	11723	2HD1	LEU	J	165	20.873	21.516-141.059	1.00	0.00	H
ATOM	11724	3HD1	LEU	J	165	19.249	22.227-140.904	1.00	0.00	H
ATOM	11725	CD2	LEU	J	165	19.353	20.521-142.974	1.00	0.00	C
ATOM	11726	1HD2	LEU	J	165	18.410	20.483-142.429	1.00	0.00	H
ATOM	11727	2HD2	LEU	J	165	20.064	19.834-142.517	1.00	0.00	H

ATOM	11728	3HD2	LEU	J	165	19.181	20.212-144.004	1.00	0.00	H
ATOM	11729	N	LEU	J	166	21.466	25.354-143.288	1.00	0.00	N
ATOM	11730	H	LEU	J	166	21.897	25.018-144.141	1.00	0.00	H
ATOM	11731	CA	LEU	J	166	22.383	25.786-142.222	1.00	0.00	C
ATOM	11732	HA	LEU	J	166	21.809	25.931-141.306	1.00	0.00	H
ATOM	11733	C	LEU	J	166	23.100	27.125-142.509	1.00	0.00	C
ATOM	11734	O	LEU	J	166	23.892	27.590-141.696	1.00	0.00	O
ATOM	11735	CB	LEU	J	166	23.376	24.617-142.015	1.00	0.00	C
ATOM	11736	1HB	LEU	J	166	22.810	23.686-141.985	1.00	0.00	H
ATOM	11737	2HB	LEU	J	166	24.026	24.563-142.890	1.00	0.00	H
ATOM	11738	CG	LEU	J	166	24.265	24.655-140.756	1.00	0.00	C
ATOM	11739	HG	LEU	J	166	24.959	25.491-140.811	1.00	0.00	H
ATOM	11740	CD1	LEU	J	166	23.452	24.759-139.463	1.00	0.00	C
ATOM	11741	1HD1	LEU	J	166	22.960	25.730-139.415	1.00	0.00	H
ATOM	11742	2HD1	LEU	J	166	24.116	24.678-138.603	1.00	0.00	H
ATOM	11743	3HD1	LEU	J	166	22.704	23.968-139.423	1.00	0.00	H
ATOM	11744	CD2	LEU	J	166	25.089	23.367-140.691	1.00	0.00	C
ATOM	11745	1HD2	LEU	J	166	25.756	23.401-139.830	1.00	0.00	H
ATOM	11746	2HD2	LEU	J	166	25.689	23.273-141.596	1.00	0.00	H
ATOM	11747	3HD2	LEU	J	166	24.430	22.503-140.608	1.00	0.00	H
ATOM	11748	N	LEU	J	167	22.844	27.747-143.666	1.00	0.00	N
ATOM	11749	H	LEU	J	167	22.168	27.307-144.271	1.00	0.00	H
ATOM	11750	CA	LEU	J	167	23.648	28.849-144.225	1.00	0.00	C
ATOM	11751	HA	LEU	J	167	24.243	29.304-143.432	1.00	0.00	H
ATOM	11752	C	LEU	J	167	22.760	29.977-144.804	1.00	0.00	C
ATOM	11753	O	LEU	J	167	23.032	30.505-145.882	1.00	0.00	O
ATOM	11754	CB	LEU	J	167	24.603	28.259-145.290	1.00	0.00	C
ATOM	11755	1HB	LEU	J	167	23.992	27.815-146.078	1.00	0.00	H
ATOM	11756	2HB	LEU	J	167	25.174	29.077-145.730	1.00	0.00	H
ATOM	11757	CG	LEU	J	167	25.612	27.198-144.805	1.00	0.00	C
ATOM	11758	HG	LEU	J	167	25.092	26.386-144.302	1.00	0.00	H
ATOM	11759	CD1	LEU	J	167	26.351	26.610-146.008	1.00	0.00	C
ATOM	11760	1HD1	LEU	J	167	27.043	25.836-145.676	1.00	0.00	H
ATOM	11761	2HD1	LEU	J	167	26.902	27.388-146.536	1.00	0.00	H
ATOM	11762	3HD1	LEU	J	167	25.634	26.159-146.693	1.00	0.00	H
ATOM	11763	CD2	LEU	J	167	26.655	27.787-143.853	1.00	0.00	C
ATOM	11764	1HD2	LEU	J	167	27.364	27.012-143.565	1.00	0.00	H
ATOM	11765	2HD2	LEU	J	167	26.167	28.154-142.951	1.00	0.00	H
ATOM	11766	3HD2	LEU	J	167	27.187	28.605-144.337	1.00	0.00	H
ATOM	11767	N	ASN	J	168	21.630	30.269-144.152	1.00	0.00	N
ATOM	11768	H	ASN	J	168	21.487	29.816-143.257	1.00	0.00	H
ATOM	11769	CA	ASN	J	168	20.422	30.750-144.838	1.00	0.00	C
ATOM	11770	HA	ASN	J	168	20.698	31.187-145.800	1.00	0.00	H
ATOM	11771	C	ASN	J	168	19.588	31.832-144.113	1.00	0.00	C
ATOM	11772	O	ASN	J	168	19.108	32.761-144.756	1.00	0.00	O
ATOM	11773	CB	ASN	J	168	19.558	29.498-145.107	1.00	0.00	C
ATOM	11774	1HB	ASN	J	168	18.613	29.802-145.546	1.00	0.00	H
ATOM	11775	2HB	ASN	J	168	20.072	28.865-145.830	1.00	0.00	H
ATOM	11776	CG	ASN	J	168	19.241	28.653-143.877	1.00	0.00	C
ATOM	11777	OD1	ASN	J	168	19.569	28.960-142.745	1.00	0.00	O
ATOM	11778	ND2	ASN	J	168	18.633	27.516-144.060	1.00	0.00	N
ATOM	11779	1HD2	ASN	J	168	18.571	26.941-143.229	1.00	0.00	H
ATOM	11780	2HD2	ASN	J	168	18.592	27.130-144.995	1.00	0.00	H
ATOM	11781	N	GLU	J	169	19.370	31.722-142.804	1.00	0.00	N
ATOM	11782	H	GLU	J	169	19.768	30.909-142.346	1.00	0.00	H
ATOM	11783	CA	GLU	J	169	18.265	32.383-142.085	1.00	0.00	C
ATOM	11784	HA	GLU	J	169	17.382	32.338-142.724	1.00	0.00	H
ATOM	11785	C	GLU	J	169	18.451	33.883-141.759	1.00	0.00	C
ATOM	11786	O	GLU	J	169	17.809	34.409-140.847	1.00	0.00	O
ATOM	11787	CB	GLU	J	169	17.948	31.552-140.832	1.00	0.00	C
ATOM	11788	1HB	GLU	J	169	17.017	31.916-140.412	1.00	0.00	H
ATOM	11789	2HB	GLU	J	169	17.771	30.517-141.130	1.00	0.00	H
ATOM	11790	CG	GLU	J	169	19.039	31.580-139.746	1.00	0.00	C
ATOM	11791	1HG	GLU	J	169	19.878	30.954-140.057	1.00	0.00	H
ATOM	11792	2HG	GLU	J	169	19.404	32.598-139.609	1.00	0.00	H
ATOM	11793	CD	GLU	J	169	18.470	31.074-138.418	1.00	0.00	C
ATOM	11794	OE1	GLU	J	169	17.855	29.986-138.418	1.00	0.00	O
ATOM	11795	OE2	GLU	J	169	18.545	31.803-137.402	1.00	0.00	O
ATOM	11796	N	THR	J	170	19.341	34.572-142.476	1.00	0.00	N
ATOM	11797	H	THR	J	170	19.802	34.068-143.221	1.00	0.00	H
ATOM	11798	CA	THR	J	170	19.868	35.894-142.086	1.00	0.00	C
ATOM	11799	HA	THR	J	170	19.231	36.309-141.307	1.00	0.00	H
ATOM	11800	C	THR	J	170	19.860	36.924-143.229	1.00	0.00	C
ATOM	11801	O	THR	J	170	19.986	38.114-142.951	1.00	0.00	O
ATOM	11802	CB	THR	J	170	21.270	35.730-141.462	1.00	0.00	C
ATOM	11803	HB	THR	J	170	21.956	35.385-142.237	1.00	0.00	H
ATOM	11804	OG1	THR	J	170	21.236	34.756-140.444	1.00	0.00	O

ATOM	11805	HG1	THR	J	170	20.725	35.115-139.689	1.00	0.00	H
ATOM	11806	CG2	THR	J	170	21.863	36.981-140.813	1.00	0.00	C
ATOM	11807	1HG2	THR	J	170	22.104	37.721-141.575	1.00	0.00	H
ATOM	11808	2HG2	THR	J	170	22.781	36.718-140.288	1.00	0.00	H
ATOM	11809	3HG2	THR	J	170	21.157	37.407-140.102	1.00	0.00	H
ATOM	11810	N	GLU	J	171	19.628	36.523-144.489	1.00	0.00	N
ATOM	11811	H	GLU	J	171	19.508	35.538-144.681	1.00	0.00	H
ATOM	11812	CA	GLU	J	171	19.344	37.460-145.595	1.00	0.00	C
ATOM	11813	HA	GLU	J	171	18.804	38.305-145.173	1.00	0.00	H
ATOM	11814	C	GLU	J	171	18.450	36.818-146.673	1.00	0.00	C
ATOM	11815	O	GLU	J	171	18.836	35.854-147.339	1.00	0.00	O
ATOM	11816	CB	GLU	J	171	20.646	38.025-146.203	1.00	0.00	C
ATOM	11817	1HB	GLU	J	171	21.416	38.037-145.430	1.00	0.00	H
ATOM	11818	2HB	GLU	J	171	21.004	37.384-147.009	1.00	0.00	H
ATOM	11819	CG	GLU	J	171	20.499	39.475-146.704	1.00	0.00	C
ATOM	11820	1HG	GLU	J	171	20.076	40.089-145.904	1.00	0.00	H
ATOM	11821	2HG	GLU	J	171	21.500	39.864-146.904	1.00	0.00	H
ATOM	11822	CD	GLU	J	171	19.649	39.621-147.975	1.00	0.00	C
ATOM	11823	OE1	GLU	J	171	20.231	39.559-149.079	1.00	0.00	O
ATOM	11824	OE2	GLU	J	171	18.418	39.826-147.859	1.00	0.00	O
ATOM	11825	N	LEU	J	172	17.249	37.372-146.849	1.00	0.00	N
ATOM	11826	H	LEU	J	172	17.050	38.215-146.317	1.00	0.00	H
ATOM	11827	CA	LEU	J	172	16.297	37.021-147.901	1.00	0.00	C
ATOM	11828	HA	LEU	J	172	16.849	36.605-148.740	1.00	0.00	H
ATOM	11829	C	LEU	J	172	15.566	38.290-148.368	1.00	0.00	C
ATOM	11830	O	LEU	J	172	14.915	38.957-147.559	1.00	0.00	O
ATOM	11831	CB	LEU	J	172	15.304	35.963-147.361	1.00	0.00	C
ATOM	11832	1HB	LEU	J	172	15.773	35.415-146.542	1.00	0.00	H
ATOM	11833	2HB	LEU	J	172	14.441	36.477-146.937	1.00	0.00	H
ATOM	11834	CG	LEU	J	172	14.799	34.927-148.385	1.00	0.00	C
ATOM	11835	HG	LEU	J	172	13.946	34.408-147.954	1.00	0.00	H
ATOM	11836	CD1	LEU	J	172	14.337	35.529-149.710	1.00	0.00	C
ATOM	11837	1HD1	LEU	J	172	15.181	35.938-150.261	1.00	0.00	H
ATOM	11838	2HD1	LEU	J	172	13.609	36.315-149.518	1.00	0.00	H
ATOM	11839	3HD1	LEU	J	172	13.871	34.761-150.322	1.00	0.00	H
ATOM	11840	CD2	LEU	J	172	15.874	33.880-148.649	1.00	0.00	C
ATOM	11841	1HD2	LEU	J	172	15.535	33.164-149.398	1.00	0.00	H
ATOM	11842	2HD2	LEU	J	172	16.093	33.349-147.724	1.00	0.00	H
ATOM	11843	3HD2	LEU	J	172	16.785	34.368-148.981	1.00	0.00	H
ATOM	11844	N	HIS	J	173	15.614	38.604-149.669	1.00	0.00	N
ATOM	11845	H	HIS	J	173	16.194	38.039-150.281	1.00	0.00	H
ATOM	11846	CA	HIS	J	173	14.868	39.713-150.289	1.00	0.00	C
ATOM	11847	HA	HIS	J	173	15.208	39.783-151.323	1.00	0.00	H
ATOM	11848	C	HIS	J	173	15.172	41.099-149.650	1.00	0.00	C
ATOM	11849	O	HIS	J	173	14.364	42.028-149.718	1.00	0.00	O
ATOM	11850	CB	HIS	J	173	13.380	39.286-150.336	1.00	0.00	C
ATOM	11851	1HB	HIS	J	173	13.326	38.334-150.864	1.00	0.00	H
ATOM	11852	2HB	HIS	J	173	13.023	39.118-149.320	1.00	0.00	H
ATOM	11853	CG	HIS	J	173	12.407	40.218-151.014	1.00	0.00	C
ATOM	11854	ND1	HIS	J	173	12.309	40.476-152.359	1.00	0.00	N
ATOM	11855	HD1	HIS	J	173	12.816	39.976-153.102	1.00	0.00	H
ATOM	11856	CD2	HIS	J	173	11.366	40.866-150.415	1.00	0.00	C
ATOM	11857	HD2	HIS	J	173	11.119	40.812-149.364	1.00	0.00	H
ATOM	11858	CE1	HIS	J	173	11.256	41.283-152.560	1.00	0.00	C
ATOM	11859	HE1	HIS	J	173	10.887	41.577-153.535	1.00	0.00	H
ATOM	11860	NE2	HIS	J	173	10.679	41.607-151.388	1.00	0.00	N
ATOM	11861	N	GLY	J	174	16.328	41.278-148.999	1.00	0.00	N
ATOM	11862	H	GLY	J	174	16.980	40.495-148.910	1.00	0.00	H
ATOM	11863	CA	GLY	J	174	16.708	42.505-148.283	1.00	0.00	C
ATOM	11864	1HA	GLY	J	174	17.796	42.529-148.217	1.00	0.00	H
ATOM	11865	2HA	GLY	J	174	16.374	43.380-148.840	1.00	0.00	H
ATOM	11866	C	GLY	J	174	16.158	42.591-146.852	1.00	0.00	C
ATOM	11867	O	GLY	J	174	16.019	43.689-146.311	1.00	0.00	O
ATOM	11868	N	ARG	J	175	15.782	41.451-146.264	1.00	0.00	N
ATOM	11869	H	ARG	J	175	15.976	40.598-146.785	1.00	0.00	H
ATOM	11870	CA	ARG	J	175	15.216	41.266-144.913	1.00	0.00	C
ATOM	11871	HA	ARG	J	175	15.483	42.113-144.282	1.00	0.00	H
ATOM	11872	C	ARG	J	175	15.839	40.001-144.290	1.00	0.00	C
ATOM	11873	O	ARG	J	175	16.735	39.407-144.876	1.00	0.00	O
ATOM	11874	CB	ARG	J	175	13.673	41.137-144.991	1.00	0.00	C
ATOM	11875	1HB	ARG	J	175	13.415	40.286-145.624	1.00	0.00	H
ATOM	11876	2HB	ARG	J	175	13.305	40.907-143.990	1.00	0.00	H
ATOM	11877	CG	ARG	J	175	12.872	42.369-145.455	1.00	0.00	C
ATOM	11878	1HG	ARG	J	175	11.840	42.205-145.141	1.00	0.00	H
ATOM	11879	2HG	ARG	J	175	13.235	43.261-144.944	1.00	0.00	H
ATOM	11880	CD	ARG	J	175	12.877	42.610-146.973	1.00	0.00	C
ATOM	11881	1HD	ARG	J	175	13.657	43.329-147.223	1.00	0.00	H

ATOM	11882	2HD	ARG	J	175	13.092	41.666-147.479	1.00	0.00	H
ATOM	11883	NE	ARG	J	175	11.574	43.109-147.450	1.00	0.00	N
ATOM	11884	HE	ARG	J	175	10.765	42.925-146.854	1.00	0.00	H
ATOM	11885	CZ	ARG	J	175	11.266	43.464-148.681	1.00	0.00	C
ATOM	11886	NH1	ARG	J	175	12.155	43.639-149.613	1.00	0.00	N
ATOM	11887	1HH1	ARG	J	175	13.087	43.283-149.423	1.00	0.00	H
ATOM	11888	2HH1	ARG	J	175	11.829	43.542-150.558	1.00	0.00	H
ATOM	11889	NH2	ARG	J	175	10.025	43.557-149.041	1.00	0.00	N
ATOM	11890	1HH2	ARG	J	175	9.340	43.127-148.412	1.00	0.00	H
ATOM	11891	2HH2	ARG	J	175	9.826	43.463-150.019	1.00	0.00	H
ATOM	11892	N	GLN	J	176	15.348	39.537-143.139	1.00	0.00	N
ATOM	11893	H	GLN	J	176	14.575	40.023-142.712	1.00	0.00	H
ATOM	11894	CA	GLN	J	176	15.570	38.150-142.707	1.00	0.00	C
ATOM	11895	HA	GLN	J	176	15.895	37.573-143.575	1.00	0.00	H
ATOM	11896	C	GLN	J	176	14.267	37.489-142.250	1.00	0.00	C
ATOM	11897	O	GLN	J	176	13.268	38.163-142.002	1.00	0.00	O
ATOM	11898	CB	GLN	J	176	16.702	38.025-141.670	1.00	0.00	C
ATOM	11899	1HB	GLN	J	176	16.920	36.962-141.563	1.00	0.00	H
ATOM	11900	2HB	GLN	J	176	17.596	38.501-142.069	1.00	0.00	H
ATOM	11901	CG	GLN	J	176	16.425	38.602-140.271	1.00	0.00	C
ATOM	11902	1HG	GLN	J	176	16.663	39.666-140.263	1.00	0.00	H
ATOM	11903	2HG	GLN	J	176	15.372	38.482-140.018	1.00	0.00	H
ATOM	11904	CD	GLN	J	176	17.250	37.883-139.203	1.00	0.00	C
ATOM	11905	OE1	GLN	J	176	16.713	37.204-138.342	1.00	0.00	O
ATOM	11906	NE2	GLN	J	176	18.561	37.960-139.243	1.00	0.00	N
ATOM	11907	1HE2	GLN	J	176	19.086	37.358-138.601	1.00	0.00	H
ATOM	11908	2HE2	GLN	J	176	19.032	38.474-139.962	1.00	0.00	H
ATOM	11909	N	LEU	J	177	14.294	36.160-142.189	1.00	0.00	N
ATOM	11910	H	LEU	J	177	15.184	35.699-142.335	1.00	0.00	H
ATOM	11911	CA	LEU	J	177	13.171	35.257-141.934	1.00	0.00	C
ATOM	11912	HA	LEU	J	177	12.598	35.628-141.083	1.00	0.00	H
ATOM	11913	C	LEU	J	177	13.735	33.877-141.550	1.00	0.00	C
ATOM	11914	O	LEU	J	177	14.929	33.633-141.735	1.00	0.00	O
ATOM	11915	CB	LEU	J	177	12.241	35.215-143.167	1.00	0.00	C
ATOM	11916	1HB	LEU	J	177	11.542	34.389-143.053	1.00	0.00	H
ATOM	11917	2HB	LEU	J	177	11.650	36.132-143.152	1.00	0.00	H
ATOM	11918	CG	LEU	J	177	12.906	35.113-144.558	1.00	0.00	C
ATOM	11919	HG	LEU	J	177	13.544	35.981-144.724	1.00	0.00	H
ATOM	11920	CD1	LEU	J	177	13.743	33.847-144.741	1.00	0.00	C
ATOM	11921	1HD1	LEU	J	177	13.220	32.992-144.319	1.00	0.00	H
ATOM	11922	2HD1	LEU	J	177	14.703	33.966-144.240	1.00	0.00	H
ATOM	11923	3HD1	LEU	J	177	13.939	33.663-145.794	1.00	0.00	H
ATOM	11924	CD2	LEU	J	177	11.818	35.137-145.628	1.00	0.00	C
ATOM	11925	1HD2	LEU	J	177	11.204	34.243-145.550	1.00	0.00	H
ATOM	11926	2HD2	LEU	J	177	12.268	35.176-146.618	1.00	0.00	H
ATOM	11927	3HD2	LEU	J	177	11.203	36.026-145.497	1.00	0.00	H
ATOM	11928	N	LYS	J	178	12.916	32.974-140.999	1.00	0.00	N
ATOM	11929	H	LYS	J	178	11.918	33.148-141.005	1.00	0.00	H
ATOM	11930	CA	LYS	J	178	13.420	31.781-140.289	1.00	0.00	C
ATOM	11931	HA	LYS	J	178	14.496	31.712-140.448	1.00	0.00	H
ATOM	11932	C	LYS	J	178	12.880	30.471-140.877	1.00	0.00	C
ATOM	11933	O	LYS	J	178	11.881	30.444-141.592	1.00	0.00	O
ATOM	11934	CB	LYS	J	178	13.200	31.941-138.766	1.00	0.00	C
ATOM	11935	1HB	LYS	J	178	12.130	32.033-138.571	1.00	0.00	H
ATOM	11936	2HB	LYS	J	178	13.550	31.040-138.260	1.00	0.00	H
ATOM	11937	CG	LYS	J	178	13.921	33.157-138.128	1.00	0.00	C
ATOM	11938	1HG	LYS	J	178	13.531	34.079-138.562	1.00	0.00	H
ATOM	11939	2HG	LYS	J	178	13.694	33.176-137.064	1.00	0.00	H
ATOM	11940	CD	LYS	J	178	15.449	33.128-138.303	1.00	0.00	C
ATOM	11941	1HD	LYS	J	178	15.838	32.186-137.914	1.00	0.00	H
ATOM	11942	2HD	LYS	J	178	15.666	33.195-139.363	1.00	0.00	H
ATOM	11943	CE	LYS	J	178	16.183	34.293-137.629	1.00	0.00	C
ATOM	11944	1HE	LYS	J	178	15.706	35.229-137.930	1.00	0.00	H
ATOM	11945	2HE	LYS	J	178	16.102	34.194-136.544	1.00	0.00	H
ATOM	11946	NZ	LYS	J	178	17.610	34.316-138.038	1.00	0.00	N
ATOM	11947	1HZ	LYS	J	178	17.699	34.355-139.051	1.00	0.00	H
ATOM	11948	2HZ	LYS	J	178	18.105	33.482-137.719	1.00	0.00	H
ATOM	11949	3HZ	LYS	J	178	18.125	35.135-137.721	1.00	0.00	H
ATOM	11950	N	VAL	J	179	13.620	29.389-140.626	1.00	0.00	N
ATOM	11951	H	VAL	J	179	14.370	29.499-139.962	1.00	0.00	H
ATOM	11952	CA	VAL	J	179	13.647	28.168-141.460	1.00	0.00	C
ATOM	11953	HA	VAL	J	179	12.796	28.176-142.139	1.00	0.00	H
ATOM	11954	C	VAL	J	179	13.551	26.915-140.577	1.00	0.00	C
ATOM	11955	O	VAL	J	179	13.927	26.960-139.405	1.00	0.00	O
ATOM	11956	CB	VAL	J	179	14.952	28.158-142.303	1.00	0.00	C
ATOM	11957	HB	VAL	J	179	15.801	28.119-141.620	1.00	0.00	H
ATOM	11958	CG1	VAL	J	179	15.067	26.965-143.262	1.00	0.00	C

ATOM	11959	1HG1	VAL	J	179	14.222	26.947-143.948	1.00	0.00	H
ATOM	11960	2HG1	VAL	J	179	15.121	26.027-142.712	1.00	0.00	H
ATOM	11961	3HG1	VAL	J	179	15.981	27.053-143.845	1.00	0.00	H
ATOM	11962	CG2	VAL	J	179	15.098	29.425-143.163	1.00	0.00	C
ATOM	11963	1HG2	VAL	J	179	15.201	30.309-142.535	1.00	0.00	H
ATOM	11964	2HG2	VAL	J	179	14.229	29.540-143.809	1.00	0.00	H
ATOM	11965	3HG2	VAL	J	179	15.996	29.358-143.779	1.00	0.00	H
ATOM	11966	N	SER	J	180	13.069	25.783-141.099	1.00	0.00	N
ATOM	11967	H	SER	J	180	12.733	25.812-142.060	1.00	0.00	H
ATOM	11968	CA	SER	J	180	13.069	24.465-140.420	1.00	0.00	C
ATOM	11969	HA	SER	J	180	13.967	24.367-139.808	1.00	0.00	H
ATOM	11970	C	SER	J	180	13.058	23.303-141.418	1.00	0.00	C
ATOM	11971	O	SER	J	180	12.739	23.506-142.580	1.00	0.00	O
ATOM	11972	CB	SER	J	180	11.839	24.344-139.514	1.00	0.00	C
ATOM	11973	1HB	SER	J	180	10.948	24.679-140.047	1.00	0.00	H
ATOM	11974	2HB	SER	J	180	11.698	23.308-139.203	1.00	0.00	H
ATOM	11975	OG	SER	J	180	12.050	25.134-138.367	1.00	0.00	O
ATOM	11976	HG	SER	J	180	12.475	25.959-138.648	1.00	0.00	H
ATOM	11977	N	ALA	J	181	13.388	22.079-140.993	1.00	0.00	N
ATOM	11978	H	ALA	J	181	13.612	21.949-140.020	1.00	0.00	H
ATOM	11979	CA	ALA	J	181	13.245	20.874-141.826	1.00	0.00	C
ATOM	11980	HA	ALA	J	181	13.715	21.048-142.791	1.00	0.00	H
ATOM	11981	C	ALA	J	181	11.770	20.507-142.103	1.00	0.00	C
ATOM	11982	O	ALA	J	181	10.885	20.908-141.345	1.00	0.00	O
ATOM	11983	CB	ALA	J	181	13.988	19.723-141.136	1.00	0.00	C
ATOM	11984	1HB	ALA	J	181	15.033	19.995-140.982	1.00	0.00	H
ATOM	11985	2HB	ALA	J	181	13.945	18.831-141.763	1.00	0.00	H
ATOM	11986	3HB	ALA	J	181	13.522	19.504-140.174	1.00	0.00	H
ATOM	11987	N	LYS	J	182	11.518	19.706-143.151	1.00	0.00	N
ATOM	11988	H	LYS	J	182	12.276	19.483-143.790	1.00	0.00	H
ATOM	11989	CA	LYS	J	182	10.191	19.171-143.501	1.00	0.00	C
ATOM	11990	HA	LYS	J	182	9.588	19.107-142.595	1.00	0.00	H
ATOM	11991	C	LYS	J	182	10.268	17.745-144.051	1.00	0.00	C
ATOM	11992	O	LYS	J	182	11.003	17.477-145.028	1.00	0.00	O
ATOM	11993	OXT	LYS	J	182	9.515	16.879-143.558	1.00	0.00	O
ATOM	11994	CB	LYS	J	182	9.506	20.148-144.479	1.00	0.00	C
ATOM	11995	1HB	LYS	J	182	9.562	21.157-144.066	1.00	0.00	H
ATOM	11996	2HB	LYS	J	182	10.042	20.141-145.427	1.00	0.00	H
ATOM	11997	CG	LYS	J	182	8.027	19.801-144.711	1.00	0.00	C
ATOM	11998	1HG	LYS	J	182	7.940	18.781-145.086	1.00	0.00	H
ATOM	11999	2HG	LYS	J	182	7.503	19.867-143.756	1.00	0.00	H
ATOM	12000	CD	LYS	J	182	7.367	20.753-145.718	1.00	0.00	C
ATOM	12001	1HD	LYS	J	182	7.568	21.787-145.436	1.00	0.00	H
ATOM	12002	2HD	LYS	J	182	7.783	20.580-146.712	1.00	0.00	H
ATOM	12003	CE	LYS	J	182	5.852	20.509-145.735	1.00	0.00	C
ATOM	12004	1HE	LYS	J	182	5.649	19.484-146.055	1.00	0.00	H
ATOM	12005	2HE	LYS	J	182	5.454	20.633-144.723	1.00	0.00	H
ATOM	12006	NZ	LYS	J	182	5.150	21.449-146.630	1.00	0.00	N
ATOM	12007	1HZ	LYS	J	182	5.353	21.296-147.614	1.00	0.00	H
ATOM	12008	2HZ	LYS	J	182	5.299	22.412-146.356	1.00	0.00	H
ATOM	12009	3HZ	LYS	J	182	4.142	21.305-146.546	1.00	0.00	H
TER	12010		LYS	J	182					
ATOM	12011	N	ASP	K	106	12.306	10.503-168.369	1.00	0.00	N
ATOM	12012	1H	ASP	K	106	11.578	9.829-168.182	1.00	0.00	H
ATOM	12013	2H	ASP	K	106	12.000	11.105-169.123	1.00	0.00	H
ATOM	12014	3H	ASP	K	106	12.375	11.077-167.531	1.00	0.00	H
ATOM	12015	CA	ASP	K	106	13.600	9.866-168.674	1.00	0.00	C
ATOM	12016	HA	ASP	K	106	13.828	9.163-167.874	1.00	0.00	H
ATOM	12017	C	ASP	K	106	14.746	10.887-168.695	1.00	0.00	C
ATOM	12018	O	ASP	K	106	15.790	10.624-168.112	1.00	0.00	O
ATOM	12019	CB	ASP	K	106	13.518	9.092-170.006	1.00	0.00	C
ATOM	12020	1HB	ASP	K	106	14.398	8.453-170.096	1.00	0.00	H
ATOM	12021	2HB	ASP	K	106	12.630	8.458-170.010	1.00	0.00	H
ATOM	12022	CG	ASP	K	106	13.469	10.067-171.184	1.00	0.00	C
ATOM	12023	OD1	ASP	K	106	12.552	10.921-171.162	1.00	0.00	O
ATOM	12024	OD2	ASP	K	106	14.488	10.198-171.894	1.00	0.00	O
ATOM	12025	N	SER	K	107	14.571	11.984-169.443	1.00	0.00	N
ATOM	12026	H	SER	K	107	13.647	12.094-169.840	1.00	0.00	H
ATOM	12027	CA	SER	K	107	15.572	12.944-169.938	1.00	0.00	C
ATOM	12028	HA	SER	K	107	15.865	13.589-169.109	1.00	0.00	H
ATOM	12029	C	SER	K	107	14.989	13.831-171.050	1.00	0.00	C
ATOM	12030	O	SER	K	107	15.462	14.949-171.250	1.00	0.00	O
ATOM	12031	CB	SER	K	107	16.839	12.265-170.498	1.00	0.00	C
ATOM	12032	1HB	SER	K	107	17.616	13.026-170.586	1.00	0.00	H
ATOM	12033	2HB	SER	K	107	17.211	11.502-169.817	1.00	0.00	H
ATOM	12034	OG	SER	K	107	16.637	11.701-171.788	1.00	0.00	O
ATOM	12035	HG	SER	K	107	15.891	11.049-171.749	1.00	0.00	H

ATOM	12036	N	ARG	K	108	13.988	13.339-171.809	1.00	0.00	N
ATOM	12037	H	ARG	K	108	13.704	12.368-171.677	1.00	0.00	H
ATOM	12038	CA	ARG	K	108	13.241	14.125-172.809	1.00	0.00	C
ATOM	12039	HA	ARG	K	108	13.908	14.808-173.320	1.00	0.00	H
ATOM	12040	C	ARG	K	108	12.187	15.038-172.191	1.00	0.00	C
ATOM	12041	O	ARG	K	108	11.623	15.862-172.899	1.00	0.00	O
ATOM	12042	CB	ARG	K	108	12.529	13.232-173.857	1.00	0.00	C
ATOM	12043	1HB	ARG	K	108	11.583	12.891-173.431	1.00	0.00	H
ATOM	12044	2HB	ARG	K	108	12.266	13.886-174.689	1.00	0.00	H
ATOM	12045	CG	ARG	K	108	13.201	11.983-174.469	1.00	0.00	C
ATOM	12046	1HG	ARG	K	108	12.977	11.128-173.835	1.00	0.00	H
ATOM	12047	2HG	ARG	K	108	12.712	11.792-175.426	1.00	0.00	H
ATOM	12048	CD	ARG	K	108	14.717	12.001-174.709	1.00	0.00	C
ATOM	12049	1HD	ARG	K	108	15.210	11.855-173.754	1.00	0.00	H
ATOM	12050	2HD	ARG	K	108	14.979	11.155-175.345	1.00	0.00	H
ATOM	12051	NE	ARG	K	108	15.165	13.248-175.344	1.00	0.00	N
ATOM	12052	HE	ARG	K	108	14.774	13.466-176.254	1.00	0.00	H
ATOM	12053	CZ	ARG	K	108	15.838	14.216-174.762	1.00	0.00	C
ATOM	12054	NH1	ARG	K	108	16.601	14.019-173.724	1.00	0.00	N
ATOM	12055	1HH1	ARG	K	108	16.643	13.083-173.338	1.00	0.00	H
ATOM	12056	2HH1	ARG	K	108	16.776	14.791-173.104	1.00	0.00	H
ATOM	12057	NH2	ARG	K	108	15.681	15.434-175.175	1.00	0.00	N
ATOM	12058	1HH2	ARG	K	108	14.895	15.640-175.794	1.00	0.00	H
ATOM	12059	2HH2	ARG	K	108	16.094	16.202-174.686	1.00	0.00	H
ATOM	12060	N	SER	K	109	11.885	14.851-170.911	1.00	0.00	N
ATOM	12061	H	SER	K	109	12.484	14.260-170.362	1.00	0.00	H
ATOM	12062	CA	SER	K	109	10.544	15.044-170.364	1.00	0.00	C
ATOM	12063	HA	SER	K	109	9.990	15.708-171.022	1.00	0.00	H
ATOM	12064	C	SER	K	109	10.557	15.695-168.978	1.00	0.00	C
ATOM	12065	O	SER	K	109	11.505	15.530-168.209	1.00	0.00	O
ATOM	12066	CB	SER	K	109	9.820	13.683-170.337	1.00	0.00	C
ATOM	12067	1HB	SER	K	109	8.977	13.733-169.646	1.00	0.00	H
ATOM	12068	2HB	SER	K	109	9.425	13.478-171.333	1.00	0.00	H
ATOM	12069	OG	SER	K	109	10.683	12.605-169.967	1.00	0.00	O
ATOM	12070	HG	SER	K	109	11.064	12.206-170.771	1.00	0.00	H
ATOM	12071	N	ILE	K	110	9.495	16.447-168.675	1.00	0.00	N
ATOM	12072	H	ILE	K	110	8.752	16.526-169.365	1.00	0.00	H
ATOM	12073	CA	ILE	K	110	9.329	17.233-167.441	1.00	0.00	C
ATOM	12074	HA	ILE	K	110	9.933	16.778-166.656	1.00	0.00	H
ATOM	12075	C	ILE	K	110	7.869	17.187-166.961	1.00	0.00	C
ATOM	12076	O	ILE	K	110	6.947	17.181-167.776	1.00	0.00	O
ATOM	12077	CB	ILE	K	110	9.820	18.696-167.629	1.00	0.00	C
ATOM	12078	HB	ILE	K	110	9.595	19.241-166.713	1.00	0.00	H
ATOM	12079	CG1	ILE	K	110	9.105	19.440-168.776	1.00	0.00	C
ATOM	12080	1HG1	ILE	K	110	9.263	18.903-169.711	1.00	0.00	H
ATOM	12081	2HG1	ILE	K	110	8.040	19.453-168.555	1.00	0.00	H
ATOM	12082	CG2	ILE	K	110	11.346	18.736-167.817	1.00	0.00	C
ATOM	12083	1HG2	ILE	K	110	11.703	19.754-167.681	1.00	0.00	H
ATOM	12084	2HG2	ILE	K	110	11.619	18.383-168.811	1.00	0.00	H
ATOM	12085	3HG2	ILE	K	110	11.830	18.109-167.071	1.00	0.00	H
ATOM	12086	CD1	ILE	K	110	9.550	20.896-168.976	1.00	0.00	C
ATOM	12087	1HD1	ILE	K	110	9.496	21.436-168.031	1.00	0.00	H
ATOM	12088	2HD1	ILE	K	110	8.890	21.379-169.697	1.00	0.00	H
ATOM	12089	3HD1	ILE	K	110	10.567	20.932-169.364	1.00	0.00	H
ATOM	12090	N	TYR	K	111	7.677	17.135-165.643	1.00	0.00	N
ATOM	12091	H	TYR	K	111	8.500	17.261-165.064	1.00	0.00	H
ATOM	12092	CA	TYR	K	111	6.396	17.076-164.928	1.00	0.00	C
ATOM	12093	HA	TYR	K	111	5.611	16.708-165.589	1.00	0.00	H
ATOM	12094	C	TYR	K	111	5.982	18.468-164.422	1.00	0.00	C
ATOM	12095	O	TYR	K	111	6.832	19.333-164.203	1.00	0.00	O
ATOM	12096	CB	TYR	K	111	6.555	16.095-163.752	1.00	0.00	C
ATOM	12097	1HB	TYR	K	111	6.732	15.096-164.150	1.00	0.00	H
ATOM	12098	2HB	TYR	K	111	7.443	16.374-163.182	1.00	0.00	H
ATOM	12099	CG	TYR	K	111	5.377	16.030-162.794	1.00	0.00	C
ATOM	12100	CD1	TYR	K	111	5.389	16.806-161.616	1.00	0.00	C
ATOM	12101	HD1	TYR	K	111	6.235	17.438-161.388	1.00	0.00	H
ATOM	12102	CD2	TYR	K	111	4.261	15.220-163.086	1.00	0.00	C
ATOM	12103	HD2	TYR	K	111	4.223	14.632-163.994	1.00	0.00	H
ATOM	12104	CE1	TYR	K	111	4.289	16.777-160.738	1.00	0.00	C
ATOM	12105	HE1	TYR	K	111	4.284	17.370-159.835	1.00	0.00	H
ATOM	12106	CE2	TYR	K	111	3.167	15.174-162.199	1.00	0.00	C
ATOM	12107	HE2	TYR	K	111	2.319	14.544-162.430	1.00	0.00	H
ATOM	12108	CZ	TYR	K	111	3.177	15.957-161.023	1.00	0.00	C
ATOM	12109	OH	TYR	K	111	2.133	15.922-160.154	1.00	0.00	O
ATOM	12110	HH	TYR	K	111	1.463	15.285-160.413	1.00	0.00	H
ATOM	12111	N	VAL	K	112	4.681	18.674-164.211	1.00	0.00	N
ATOM	12112	H	VAL	K	112	4.045	17.900-164.392	1.00	0.00	H

ATOM	12113	CA	VAL	K	112	4.042	19.958-163.899	1.00	0.00	C
ATOM	12114	HA	VAL	K	112	4.781	20.661-163.517	1.00	0.00	H
ATOM	12115	C	VAL	K	112	2.965	19.736-162.830	1.00	0.00	C
ATOM	12116	O	VAL	K	112	2.081	18.893-163.002	1.00	0.00	O
ATOM	12117	CB	VAL	K	112	3.410	20.545-165.179	1.00	0.00	C
ATOM	12118	HB	VAL	K	112	2.613	19.886-165.515	1.00	0.00	H
ATOM	12119	CG1	VAL	K	112	2.813	21.927-164.917	1.00	0.00	C
ATOM	12120	1HG1	VAL	K	112	3.589	22.600-164.558	1.00	0.00	H
ATOM	12121	2HG1	VAL	K	112	2.022	21.851-164.171	1.00	0.00	H
ATOM	12122	3HG1	VAL	K	112	2.376	22.327-165.832	1.00	0.00	H
ATOM	12123	CG2	VAL	K	112	4.416	20.693-166.331	1.00	0.00	C
ATOM	12124	1HG2	VAL	K	112	5.255	21.315-166.021	1.00	0.00	H
ATOM	12125	2HG2	VAL	K	112	3.919	21.149-167.184	1.00	0.00	H
ATOM	12126	3HG2	VAL	K	112	4.781	19.715-166.643	1.00	0.00	H
ATOM	12127	N	GLY	K	113	3.031	20.497-161.734	1.00	0.00	N
ATOM	12128	H	GLY	K	113	3.720	21.244-161.699	1.00	0.00	H
ATOM	12129	CA	GLY	K	113	2.224	20.283-160.529	1.00	0.00	C
ATOM	12130	1HA	GLY	K	113	1.314	19.741-160.787	1.00	0.00	H
ATOM	12131	2HA	GLY	K	113	2.791	19.664-159.835	1.00	0.00	H
ATOM	12132	C	GLY	K	113	1.821	21.574-159.806	1.00	0.00	C
ATOM	12133	O	GLY	K	113	2.306	22.659-160.127	1.00	0.00	O
ATOM	12134	N	ASN	K	114	0.908	21.424-158.836	1.00	0.00	N
ATOM	12135	H	ASN	K	114	0.694	20.475-158.570	1.00	0.00	H
ATOM	12136	CA	ASN	K	114	0.029	22.471-158.290	1.00	0.00	C
ATOM	12137	HA	ASN	K	114	-0.798	21.953-157.811	1.00	0.00	H
ATOM	12138	C	ASN	K	114	-0.600	23.371-159.374	1.00	0.00	C
ATOM	12139	O	ASN	K	114	-0.035	24.404-159.734	1.00	0.00	O
ATOM	12140	CB	ASN	K	114	0.741	23.262-157.182	1.00	0.00	C
ATOM	12141	1HB	ASN	K	114	1.065	22.580-156.404	1.00	0.00	H
ATOM	12142	2HB	ASN	K	114	1.614	23.772-157.589	1.00	0.00	H
ATOM	12143	CG	ASN	K	114	-0.185	24.279-156.539	1.00	0.00	C
ATOM	12144	OD1	ASN	K	114	-0.889	23.992-155.587	1.00	0.00	O
ATOM	12145	ND2	ASN	K	114	-0.261	25.475-157.070	1.00	0.00	N
ATOM	12146	1HD2	ASN	K	114	-0.905	26.120-156.654	1.00	0.00	H
ATOM	12147	2HD2	ASN	K	114	0.155	25.633-157.979	1.00	0.00	H
ATOM	12148	N	VAL	K	115	-1.763	22.972-159.899	1.00	0.00	N
ATOM	12149	H	VAL	K	115	-2.247	22.176-159.498	1.00	0.00	H
ATOM	12150	CA	VAL	K	115	-2.331	23.525-161.142	1.00	0.00	C
ATOM	12151	HA	VAL	K	115	-1.722	24.370-161.462	1.00	0.00	H
ATOM	12152	C	VAL	K	115	-3.750	24.077-160.915	1.00	0.00	C
ATOM	12153	O	VAL	K	115	-4.388	23.809-159.894	1.00	0.00	O
ATOM	12154	CB	VAL	K	115	-2.253	22.461-162.267	1.00	0.00	C
ATOM	12155	HB	VAL	K	115	-2.941	21.652-162.034	1.00	0.00	H
ATOM	12156	CG1	VAL	K	115	-2.600	23.017-163.658	1.00	0.00	C
ATOM	12157	1HG1	VAL	K	115	-3.669	23.221-163.724	1.00	0.00	H
ATOM	12158	2HG1	VAL	K	115	-2.376	22.279-164.427	1.00	0.00	H
ATOM	12159	3HG1	VAL	K	115	-2.031	23.923-163.860	1.00	0.00	H
ATOM	12160	CG2	VAL	K	115	-0.839	21.854-162.355	1.00	0.00	C
ATOM	12161	1HG2	VAL	K	115	-0.729	21.258-163.261	1.00	0.00	H
ATOM	12162	2HG2	VAL	K	115	-0.667	21.195-161.507	1.00	0.00	H
ATOM	12163	3HG2	VAL	K	115	-0.092	22.646-162.355	1.00	0.00	H
ATOM	12164	N	ASP	K	116	-4.208	24.915-161.847	1.00	0.00	N
ATOM	12165	H	ASP	K	116	-3.648	25.052-162.672	1.00	0.00	H
ATOM	12166	CA	ASP	K	116	-5.529	25.544-161.854	1.00	0.00	C
ATOM	12167	HA	ASP	K	116	-5.877	25.657-160.827	1.00	0.00	H
ATOM	12168	C	ASP	K	116	-6.551	24.696-162.636	1.00	0.00	C
ATOM	12169	O	ASP	K	116	-6.285	24.233-163.747	1.00	0.00	O
ATOM	12170	CB	ASP	K	116	-5.386	26.944-162.465	1.00	0.00	C
ATOM	12171	1HB	ASP	K	116	-4.603	27.486-161.931	1.00	0.00	H
ATOM	12172	2HB	ASP	K	116	-5.084	26.858-163.510	1.00	0.00	H
ATOM	12173	CG	ASP	K	116	-6.686	27.741-162.383	1.00	0.00	C
ATOM	12174	OD1	ASP	K	116	-6.693	28.804-161.728	1.00	0.00	O
ATOM	12175	OD2	ASP	K	116	-7.679	27.344-163.023	1.00	0.00	O
ATOM	12176	N	TYR	K	117	-7.739	24.528-162.048	1.00	0.00	N
ATOM	12177	H	TYR	K	117	-7.925	25.090-161.234	1.00	0.00	H
ATOM	12178	CA	TYR	K	117	-8.827	23.668-162.522	1.00	0.00	C
ATOM	12179	HA	TYR	K	117	-8.398	22.684-162.715	1.00	0.00	H
ATOM	12180	C	TYR	K	117	-9.511	24.092-163.839	1.00	0.00	C
ATOM	12181	O	TYR	K	117	-10.459	23.416-164.244	1.00	0.00	O
ATOM	12182	CB	TYR	K	117	-9.857	23.526-161.388	1.00	0.00	C
ATOM	12183	1HB	TYR	K	117	-10.625	22.813-161.690	1.00	0.00	H
ATOM	12184	2HB	TYR	K	117	-9.355	23.101-160.522	1.00	0.00	H
ATOM	12185	CG	TYR	K	117	-10.529	24.823-160.970	1.00	0.00	C
ATOM	12186	CD1	TYR	K	117	-10.049	25.544-159.857	1.00	0.00	C
ATOM	12187	HD1	TYR	K	117	-9.199	25.182-159.298	1.00	0.00	H
ATOM	12188	CD2	TYR	K	117	-11.616	25.324-161.714	1.00	0.00	C
ATOM	12189	HD2	TYR	K	117	-11.970	24.785-162.584	1.00	0.00	H



ATOM	12190	CE1	TYR	K	117	-10.648	26.768-159.500	1.00	0.00	C
ATOM	12191	HE1	TYR	K	117	-10.269	27.350-158.674	1.00	0.00	H
ATOM	12192	CE2	TYR	K	117	-12.206	26.555-161.369	1.00	0.00	C
ATOM	12193	HE2	TYR	K	117	-13.012	26.952-161.967	1.00	0.00	H
ATOM	12194	CZ	TYR	K	117	-11.718	27.281-160.262	1.00	0.00	C
ATOM	12195	OH	TYR	K	117	-12.277	28.471-159.921	1.00	0.00	O
ATOM	12196	HH	TYR	K	117	-12.867	28.799-160.603	1.00	0.00	H
ATOM	12197	N	ALA	K	118	-9.075	25.173-164.494	1.00	0.00	N
ATOM	12198	H	ALA	K	118	-8.383	25.764-164.038	1.00	0.00	H
ATOM	12199	CA	ALA	K	118	-9.600	25.636-165.786	1.00	0.00	C
ATOM	12200	HA	ALA	K	118	-10.374	24.949-166.129	1.00	0.00	H
ATOM	12201	C	ALA	K	118	-8.544	25.670-166.918	1.00	0.00	C
ATOM	12202	O	ALA	K	118	-8.866	26.040-168.044	1.00	0.00	O
ATOM	12203	CB	ALA	K	118	-10.265	26.999-165.558	1.00	0.00	C
ATOM	12204	1HB	ALA	K	118	-9.519	27.718-165.221	1.00	0.00	H
ATOM	12205	2HB	ALA	K	118	-11.048	26.909-164.805	1.00	0.00	H
ATOM	12206	3HB	ALA	K	118	-10.706	27.352-166.491	1.00	0.00	H
ATOM	12207	N	CYS	K	119	-7.303	25.257-166.635	1.00	0.00	N
ATOM	12208	H	CYS	K	119	-7.120	24.937-165.695	1.00	0.00	H
ATOM	12209	CA	CYS	K	119	-6.204	25.184-167.605	1.00	0.00	C
ATOM	12210	HA	CYS	K	119	-6.135	26.137-168.135	1.00	0.00	H
ATOM	12211	C	CYS	K	119	-6.396	24.062-168.657	1.00	0.00	C
ATOM	12212	O	CYS	K	119	-7.048	23.046-168.391	1.00	0.00	O
ATOM	12213	CB	CYS	K	119	-4.932	24.968-166.770	1.00	0.00	C
ATOM	12214	1HB	CYS	K	119	-4.941	25.665-165.930	1.00	0.00	H
ATOM	12215	2HB	CYS	K	119	-4.935	23.950-166.375	1.00	0.00	H
ATOM	12216	SG	CYS	K	119	-3.426	25.256-167.738	1.00	0.00	S
ATOM	12217	HG	CYS	K	119	-2.559	24.931-166.776	1.00	0.00	H
ATOM	12218	N	THR	K	120	-5.747	24.184-169.821	1.00	0.00	N
ATOM	12219	H	THR	K	120	-5.310	25.085-170.010	1.00	0.00	H
ATOM	12220	CA	THR	K	120	-5.859	23.242-170.956	1.00	0.00	C
ATOM	12221	HA	THR	K	120	-6.471	22.397-170.648	1.00	0.00	H
ATOM	12222	C	THR	K	120	-4.497	22.706-171.437	1.00	0.00	C
ATOM	12223	O	THR	K	120	-3.488	23.418-171.412	1.00	0.00	O
ATOM	12224	CB	THR	K	120	-6.575	23.901-172.149	1.00	0.00	C
ATOM	12225	HB	THR	K	120	-6.657	23.167-172.949	1.00	0.00	H
ATOM	12226	OG1	THR	K	120	-5.831	24.998-172.629	1.00	0.00	O
ATOM	12227	HG1	THR	K	120	-5.889	25.703-171.944	1.00	0.00	H
ATOM	12228	CG2	THR	K	120	-7.983	24.384-171.803	1.00	0.00	C
ATOM	12229	1HG2	THR	K	120	-8.564	23.559-171.390	1.00	0.00	H
ATOM	12230	2HG2	THR	K	120	-8.474	24.741-172.708	1.00	0.00	H
ATOM	12231	3HG2	THR	K	120	-7.944	25.197-171.076	1.00	0.00	H
ATOM	12232	N	PRO	K	121	-4.401	21.449-171.920	1.00	0.00	N
ATOM	12233	CA	PRO	K	121	-3.150	20.923-172.475	1.00	0.00	C
ATOM	12234	HA	PRO	K	121	-2.351	21.054-171.747	1.00	0.00	H
ATOM	12235	C	PRO	K	121	-2.731	21.637-173.773	1.00	0.00	C
ATOM	12236	O	PRO	K	121	-1.539	21.698-174.088	1.00	0.00	O
ATOM	12237	CB	PRO	K	121	-3.388	19.425-172.678	1.00	0.00	C
ATOM	12238	1HB	PRO	K	121	-2.859	19.042-173.551	1.00	0.00	H
ATOM	12239	2HB	PRO	K	121	-3.069	18.891-171.783	1.00	0.00	H
ATOM	12240	CG	PRO	K	121	-4.904	19.304-172.836	1.00	0.00	C
ATOM	12241	1HG	PRO	K	121	-5.164	19.432-173.884	1.00	0.00	H
ATOM	12242	2HG	PRO	K	121	-5.276	18.341-172.485	1.00	0.00	H
ATOM	12243	CD	PRO	K	121	-5.468	20.463-172.009	1.00	0.00	C
ATOM	12244	1HD	PRO	K	121	-6.357	20.873-172.488	1.00	0.00	H
ATOM	12245	2HD	PRO	K	121	-5.731	20.124-171.008	1.00	0.00	H
ATOM	12246	N	GLU	K	122	-3.687	22.193-174.517	1.00	0.00	N
ATOM	12247	H	GLU	K	122	-4.661	22.029-174.251	1.00	0.00	H
ATOM	12248	CA	GLU	K	122	-3.486	23.077-175.667	1.00	0.00	C
ATOM	12249	HA	GLU	K	122	-2.912	22.557-176.431	1.00	0.00	H
ATOM	12250	C	GLU	K	122	-2.687	24.336-175.287	1.00	0.00	C
ATOM	12251	O	GLU	K	122	-1.707	24.659-175.966	1.00	0.00	O
ATOM	12252	CB	GLU	K	122	-4.849	23.453-176.285	1.00	0.00	C
ATOM	12253	1HB	GLU	K	122	-5.497	23.879-175.518	1.00	0.00	H
ATOM	12254	2HB	GLU	K	122	-4.671	24.231-177.029	1.00	0.00	H
ATOM	12255	CG	GLU	K	122	-5.577	22.296-177.003	1.00	0.00	C
ATOM	12256	1HG	GLU	K	122	-6.440	22.709-177.529	1.00	0.00	H
ATOM	12257	2HG	GLU	K	122	-4.900	21.884-177.756	1.00	0.00	H
ATOM	12258	CD	GLU	K	122	-6.062	21.164-176.081	1.00	0.00	C
ATOM	12259	OE1	GLU	K	122	-6.073	19.992-176.530	1.00	0.00	O
ATOM	12260	OE2	GLU	K	122	-6.304	21.414-174.883	1.00	0.00	O
ATOM	12261	N	GLU	K	123	-3.020	25.015-174.180	1.00	0.00	N
ATOM	12262	H	GLU	K	123	-3.852	24.753-173.654	1.00	0.00	H
ATOM	12263	CA	GLU	K	123	-2.264	26.202-173.758	1.00	0.00	C
ATOM	12264	HA	GLU	K	123	-1.962	26.712-174.668	1.00	0.00	H
ATOM	12265	C	GLU	K	123	-0.972	25.860-172.995	1.00	0.00	C
ATOM	12266	O	GLU	K	123	0.045	26.526-173.199	1.00	0.00	O

ATOM	12267	CB	GLU	K	123	-3.157	27.213-173.025	1.00	0.00	C
ATOM	12268	1HB	GLU	K	123	-2.728	28.208-173.159	1.00	0.00	H
ATOM	12269	2HB	GLU	K	123	-4.138	27.214-173.502	1.00	0.00	H
ATOM	12270	CG	GLU	K	123	-3.312	26.968-171.523	1.00	0.00	C
ATOM	12271	1HG	GLU	K	123	-3.355	25.899-171.329	1.00	0.00	H
ATOM	12272	2HG	GLU	K	123	-2.444	27.370-170.995	1.00	0.00	H
ATOM	12273	CD	GLU	K	123	-4.594	27.618-171.017	1.00	0.00	C
ATOM	12274	OE1	GLU	K	123	-5.545	26.853-170.740	1.00	0.00	O
ATOM	12275	OE2	GLU	K	123	-4.626	28.861-170.898	1.00	0.00	O
ATOM	12276	N	VAL	K	124	-0.948	24.782-172.196	1.00	0.00	N
ATOM	12277	H	VAL	K	124	-1.832	24.303-172.025	1.00	0.00	H
ATOM	12278	CA	VAL	K	124	0.267	24.312-171.496	1.00	0.00	C
ATOM	12279	HA	VAL	K	124	0.592	25.093-170.808	1.00	0.00	H
ATOM	12280	C	VAL	K	124	1.422	24.084-172.474	1.00	0.00	C
ATOM	12281	O	VAL	K	124	2.532	24.574-172.244	1.00	0.00	O
ATOM	12282	CB	VAL	K	124	-0.024	23.036-170.673	1.00	0.00	C
ATOM	12283	HB	VAL	K	124	-0.568	22.331-171.300	1.00	0.00	H
ATOM	12284	CG1	VAL	K	124	1.238	22.331-170.152	1.00	0.00	C
ATOM	12285	1HG1	VAL	K	124	0.954	21.488-169.521	1.00	0.00	H
ATOM	12286	2HG1	VAL	K	124	1.830	23.035-169.569	1.00	0.00	H
ATOM	12287	3HG1	VAL	K	124	1.833	21.949-170.981	1.00	0.00	H
ATOM	12288	CG2	VAL	K	124	-0.867	23.362-169.436	1.00	0.00	C
ATOM	12289	1HG2	VAL	K	124	-1.212	22.441-168.965	1.00	0.00	H
ATOM	12290	2HG2	VAL	K	124	-1.740	23.947-169.719	1.00	0.00	H
ATOM	12291	3HG2	VAL	K	124	-0.286	23.939-168.718	1.00	0.00	H
ATOM	12292	N	GLN	K	125	1.183	23.377-173.587	1.00	0.00	N
ATOM	12293	H	GLN	K	125	0.248	23.017-173.753	1.00	0.00	H
ATOM	12294	CA	GLN	K	125	2.244	23.143-174.571	1.00	0.00	C
ATOM	12295	HA	GLN	K	125	3.112	22.790-174.013	1.00	0.00	H
ATOM	12296	C	GLN	K	125	2.705	24.441-175.262	1.00	0.00	C
ATOM	12297	O	GLN	K	125	3.913	24.629-175.418	1.00	0.00	O
ATOM	12298	CB	GLN	K	125	1.880	22.000-175.542	1.00	0.00	C
ATOM	12299	1HB	GLN	K	125	2.770	21.733-176.113	1.00	0.00	H
ATOM	12300	2HB	GLN	K	125	1.603	21.133-174.942	1.00	0.00	H
ATOM	12301	CG	GLN	K	125	0.739	22.283-176.530	1.00	0.00	C
ATOM	12302	1HG	GLN	K	125	-0.095	22.719-175.987	1.00	0.00	H
ATOM	12303	2HG	GLN	K	125	1.067	23.005-177.277	1.00	0.00	H
ATOM	12304	CD	GLN	K	125	0.256	21.018-177.247	1.00	0.00	C
ATOM	12305	OE1	GLN	K	125	0.994	20.353-177.967	1.00	0.00	O
ATOM	12306	NE2	GLN	K	125	-0.989	20.639-177.050	1.00	0.00	N
ATOM	12307	1HE2	GLN	K	125	-1.380	19.860-177.587	1.00	0.00	H
ATOM	12308	2HE2	GLN	K	125	-1.552	21.136-176.380	1.00	0.00	H
ATOM	12309	N	GLN	K	126	1.801	25.370-175.616	1.00	0.00	N
ATOM	12310	H	GLN	K	126	0.818	25.202-175.431	1.00	0.00	H
ATOM	12311	CA	GLN	K	126	2.194	26.622-176.289	1.00	0.00	C
ATOM	12312	HA	GLN	K	126	2.953	26.351-177.022	1.00	0.00	H
ATOM	12313	C	GLN	K	126	2.870	27.647-175.356	1.00	0.00	C
ATOM	12314	O	GLN	K	126	3.776	28.356-175.805	1.00	0.00	O
ATOM	12315	CB	GLN	K	126	1.028	27.208-177.113	1.00	0.00	C
ATOM	12316	1HB	GLN	K	126	1.446	27.828-177.907	1.00	0.00	H
ATOM	12317	2HB	GLN	K	126	0.514	26.378-177.602	1.00	0.00	H
ATOM	12318	CG	GLN	K	126	-0.021	28.035-176.351	1.00	0.00	C
ATOM	12319	1HG	GLN	K	126	-0.965	27.988-176.893	1.00	0.00	H
ATOM	12320	2HG	GLN	K	126	-0.178	27.597-175.376	1.00	0.00	H
ATOM	12321	CD	GLN	K	126	0.345	29.510-176.196	1.00	0.00	C
ATOM	12322	OE1	GLN	K	126	0.513	30.237-177.161	1.00	0.00	O
ATOM	12323	NE2	GLN	K	126	0.471	30.013-174.988	1.00	0.00	N
ATOM	12324	1HE2	GLN	K	126	0.651	30.998-174.924	1.00	0.00	H
ATOM	12325	2HE2	GLN	K	126	0.256	29.465-174.171	1.00	0.00	H
ATOM	12326	N	HIS	K	127	2.518	27.684-174.061	1.00	0.00	N
ATOM	12327	H	HIS	K	127	1.751	27.095-173.744	1.00	0.00	H
ATOM	12328	CA	HIS	K	127	3.214	28.507-173.059	1.00	0.00	C
ATOM	12329	HA	HIS	K	127	3.160	29.557-173.350	1.00	0.00	H
ATOM	12330	C	HIS	K	127	4.699	28.126-172.998	1.00	0.00	C
ATOM	12331	O	HIS	K	127	5.569	28.963-173.233	1.00	0.00	O
ATOM	12332	CB	HIS	K	127	2.573	28.350-171.664	1.00	0.00	C
ATOM	12333	1HB	HIS	K	127	2.116	27.363-171.570	1.00	0.00	H
ATOM	12334	2HB	HIS	K	127	3.368	28.404-170.918	1.00	0.00	H
ATOM	12335	CG	HIS	K	127	1.563	29.410-171.291	1.00	0.00	C
ATOM	12336	ND1	HIS	K	127	1.811	30.554-170.556	1.00	0.00	N
ATOM	12337	HD1	HIS	K	127	2.676	30.820-170.100	1.00	0.00	H
ATOM	12338	CD2	HIS	K	127	0.210	29.363-171.498	1.00	0.00	C
ATOM	12339	HD2	HIS	K	127	-0.340	28.571-171.980	1.00	0.00	H
ATOM	12340	CE1	HIS	K	127	0.645	31.195-170.365	1.00	0.00	C
ATOM	12341	HE1	HIS	K	127	0.517	32.110-169.797	1.00	0.00	H
ATOM	12342	NE2	HIS	K	127	-0.359	30.494-170.912	1.00	0.00	N
ATOM	12343	N	PHE	K	128	5.006	26.847-172.756	1.00	0.00	N

ATOM	12344	H	PHE	K	128	4.258	26.189-172.558	1.00	0.00	H
ATOM	12345	CA	PHE	K	128	6.396	26.391-172.689	1.00	0.00	C
ATOM	12346	HA	PHE	K	128	6.940	27.041-172.002	1.00	0.00	H
ATOM	12347	C	PHE	K	128	7.116	26.504-174.042	1.00	0.00	C
ATOM	12348	O	PHE	K	128	8.244	26.996-174.082	1.00	0.00	O
ATOM	12349	CB	PHE	K	128	6.446	24.958-172.149	1.00	0.00	C
ATOM	12350	1HB	PHE	K	128	5.917	24.323-172.857	1.00	0.00	H
ATOM	12351	2HB	PHE	K	128	7.487	24.634-172.120	1.00	0.00	H
ATOM	12352	CG	PHE	K	128	5.847	24.733-170.767	1.00	0.00	C
ATOM	12353	CD1	PHE	K	128	5.981	25.686-169.735	1.00	0.00	C
ATOM	12354	HD1	PHE	K	128	6.493	26.620-169.908	1.00	0.00	H
ATOM	12355	CD2	PHE	K	128	5.157	23.534-170.510	1.00	0.00	C
ATOM	12356	HD2	PHE	K	128	5.021	22.810-171.299	1.00	0.00	H
ATOM	12357	CE1	PHE	K	128	5.427	25.439-168.465	1.00	0.00	C
ATOM	12358	HE1	PHE	K	128	5.509	26.187-167.686	1.00	0.00	H
ATOM	12359	CE2	PHE	K	128	4.616	23.282-169.239	1.00	0.00	C
ATOM	12360	HE2	PHE	K	128	4.079	22.364-169.060	1.00	0.00	H
ATOM	12361	CZ	PHE	K	128	4.747	24.235-168.214	1.00	0.00	C
ATOM	12362	HZ	PHE	K	128	4.313	24.051-167.241	1.00	0.00	H
ATOM	12363	N	GLN	K	129	6.464	26.130-175.154	1.00	0.00	N
ATOM	12364	H	GLN	K	129	5.528	25.744-175.060	1.00	0.00	H
ATOM	12365	CA	GLN	K	129	7.037	26.228-176.506	1.00	0.00	C
ATOM	12366	HA	GLN	K	129	7.930	25.607-176.526	1.00	0.00	H
ATOM	12367	C	GLN	K	129	7.475	27.660-176.870	1.00	0.00	C
ATOM	12368	O	GLN	K	129	8.457	27.822-177.597	1.00	0.00	O
ATOM	12369	CB	GLN	K	129	6.035	25.667-177.534	1.00	0.00	C
ATOM	12370	1HB	GLN	K	129	5.668	24.706-177.182	1.00	0.00	H
ATOM	12371	2HB	GLN	K	129	5.189	26.350-177.618	1.00	0.00	H
ATOM	12372	CG	GLN	K	129	6.630	25.429-178.930	1.00	0.00	C
ATOM	12373	1HG	GLN	K	129	7.001	26.369-179.338	1.00	0.00	H
ATOM	12374	2HG	GLN	K	129	7.456	24.725-178.859	1.00	0.00	H
ATOM	12375	CD	GLN	K	129	5.588	24.865-179.891	1.00	0.00	C
ATOM	12376	OE1	GLN	K	129	5.009	25.571-180.697	1.00	0.00	O
ATOM	12377	NE2	GLN	K	129	5.317	23.578-179.866	1.00	0.00	N
ATOM	12378	1HE2	GLN	K	129	4.574	23.269-180.465	1.00	0.00	H
ATOM	12379	2HE2	GLN	K	129	5.778	22.946-179.219	1.00	0.00	H
ATOM	12380	N	SER	K	130	6.796	28.680-176.331	1.00	0.00	N
ATOM	12381	H	SER	K	130	5.984	28.466-175.763	1.00	0.00	H
ATOM	12382	CA	SER	K	130	7.139	30.102-176.503	1.00	0.00	C
ATOM	12383	HA	SER	K	130	7.245	30.303-177.568	1.00	0.00	H
ATOM	12384	C	SER	K	130	8.457	30.526-175.834	1.00	0.00	C
ATOM	12385	O	SER	K	130	9.036	31.537-176.232	1.00	0.00	O
ATOM	12386	CB	SER	K	130	6.003	30.987-175.977	1.00	0.00	C
ATOM	12387	1HB	SER	K	130	5.833	30.797-174.917	1.00	0.00	H
ATOM	12388	2HB	SER	K	130	6.282	32.034-176.101	1.00	0.00	H
ATOM	12389	OG	SER	K	130	4.817	30.745-176.710	1.00	0.00	O
ATOM	12390	HG	SER	K	130	4.392	29.936-176.369	1.00	0.00	H
ATOM	12391	N	CYS	K	131	8.966	29.748-174.871	1.00	0.00	N
ATOM	12392	H	CYS	K	131	8.416	28.951-174.573	1.00	0.00	H
ATOM	12393	CA	CYS	K	131	10.223	30.013-174.156	1.00	0.00	C
ATOM	12394	HA	CYS	K	131	10.602	31.003-174.414	1.00	0.00	H
ATOM	12395	C	CYS	K	131	11.330	28.999-174.497	1.00	0.00	C
ATOM	12396	O	CYS	K	131	12.507	29.352-174.553	1.00	0.00	O
ATOM	12397	CB	CYS	K	131	9.945	29.981-172.649	1.00	0.00	C
ATOM	12398	1HB	CYS	K	131	9.468	29.038-172.374	1.00	0.00	H
ATOM	12399	2HB	CYS	K	131	10.889	30.062-172.111	1.00	0.00	H
ATOM	12400	SG	CYS	K	131	8.882	31.361-172.152	1.00	0.00	S
ATOM	12401	HG	CYS	K	131	8.866	31.038-170.848	1.00	0.00	H
ATOM	12402	N	GLY	K	132	10.960	27.748-174.771	1.00	0.00	N
ATOM	12403	H	GLY	K	132	9.978	27.507-174.658	1.00	0.00	H
ATOM	12404	CA	GLY	K	132	11.855	26.687-175.222	1.00	0.00	C
ATOM	12405	1HA	GLY	K	132	12.600	27.098-175.903	1.00	0.00	H
ATOM	12406	2HA	GLY	K	132	12.364	26.246-174.366	1.00	0.00	H
ATOM	12407	C	GLY	K	132	11.046	25.604-175.927	1.00	0.00	C
ATOM	12408	O	GLY	K	132	10.111	25.056-175.353	1.00	0.00	O
ATOM	12409	N	THR	K	133	11.373	25.320-177.191	1.00	0.00	N
ATOM	12410	H	THR	K	133	12.143	25.818-177.604	1.00	0.00	H
ATOM	12411	CA	THR	K	133	10.558	24.440-178.046	1.00	0.00	C
ATOM	12412	HA	THR	K	133	9.604	24.947-178.179	1.00	0.00	H
ATOM	12413	C	THR	K	133	10.259	23.085-177.392	1.00	0.00	C
ATOM	12414	O	THR	K	133	11.162	22.291-177.137	1.00	0.00	O
ATOM	12415	CB	THR	K	133	11.153	24.296-179.458	1.00	0.00	C
ATOM	12416	HB	THR	K	133	11.143	25.283-179.922	1.00	0.00	H
ATOM	12417	OG1	THR	K	133	10.361	23.434-180.236	1.00	0.00	O
ATOM	12418	HG1	THR	K	133	10.525	22.538-179.925	1.00	0.00	H
ATOM	12419	CG2	THR	K	133	12.578	23.750-179.544	1.00	0.00	C
ATOM	12420	1HG2	THR	K	133	12.943	23.865-180.565	1.00	0.00	H

ATOM	12421	2HG2	THR	K	133	12.588	22.693-179.288	1.00	0.00	H
ATOM	12422	3HG2	THR	K	133	13.238	24.295-178.870	1.00	0.00	H
ATOM	12423	N	VAL	K	134	8.972	22.803-177.175	1.00	0.00	N
ATOM	12424	H	VAL	K	134	8.284	23.500-177.417	1.00	0.00	H
ATOM	12425	CA	VAL	K	134	8.461	21.553-176.599	1.00	0.00	C
ATOM	12426	HA	VAL	K	134	9.289	20.856-176.518	1.00	0.00	H
ATOM	12427	C	VAL	K	134	7.436	20.942-177.557	1.00	0.00	C
ATOM	12428	O	VAL	K	134	6.806	21.665-178.330	1.00	0.00	O
ATOM	12429	CB	VAL	K	134	7.935	21.790-175.167	1.00	0.00	C
ATOM	12430	HB	VAL	K	134	8.598	22.503-174.676	1.00	0.00	H
ATOM	12431	CG1	VAL	K	134	6.510	22.347-175.103	1.00	0.00	C
ATOM	12432	1HG1	VAL	K	134	6.474	23.314-175.597	1.00	0.00	H
ATOM	12433	2HG1	VAL	K	134	6.214	22.475-174.064	1.00	0.00	H
ATOM	12434	3HG1	VAL	K	134	5.798	21.671-175.578	1.00	0.00	H
ATOM	12435	CG2	VAL	K	134	7.986	20.508-174.337	1.00	0.00	C
ATOM	12436	1HG2	VAL	K	134	8.983	20.071-174.383	1.00	0.00	H
ATOM	12437	2HG2	VAL	K	134	7.249	19.793-174.701	1.00	0.00	H
ATOM	12438	3HG2	VAL	K	134	7.767	20.748-173.299	1.00	0.00	H
ATOM	12439	N	ASN	K	135	7.330	19.613-177.576	1.00	0.00	N
ATOM	12440	H	ASN	K	135	7.828	19.077-176.871	1.00	0.00	H
ATOM	12441	CA	ASN	K	135	6.683	18.864-178.656	1.00	0.00	C
ATOM	12442	HA	ASN	K	135	6.510	19.513-179.517	1.00	0.00	H
ATOM	12443	C	ASN	K	135	5.312	18.319-178.244	1.00	0.00	C
ATOM	12444	O	ASN	K	135	4.331	18.594-178.928	1.00	0.00	O
ATOM	12445	CB	ASN	K	135	7.650	17.742-179.088	1.00	0.00	C
ATOM	12446	1HB	ASN	K	135	8.506	18.174-179.600	1.00	0.00	H
ATOM	12447	2HB	ASN	K	135	8.010	17.223-178.204	1.00	0.00	H
ATOM	12448	CG	ASN	K	135	7.036	16.709-180.017	1.00	0.00	C
ATOM	12449	OD1	ASN	K	135	6.380	17.015-180.994	1.00	0.00	O
ATOM	12450	ND2	ASN	K	135	7.240	15.443-179.748	1.00	0.00	N
ATOM	12451	1HD2	ASN	K	135	6.834	14.767-180.361	1.00	0.00	H
ATOM	12452	2HD2	ASN	K	135	7.810	15.185-178.933	1.00	0.00	H
ATOM	12453	N	ARG	K	136	5.228	17.565-177.141	1.00	0.00	N
ATOM	12454	H	ARG	K	136	6.066	17.461-176.580	1.00	0.00	H
ATOM	12455	CA	ARG	K	136	4.037	16.777-176.756	1.00	0.00	C
ATOM	12456	HA	ARG	K	136	3.172	17.161-177.291	1.00	0.00	H
ATOM	12457	C	ARG	K	136	3.674	16.962-175.285	1.00	0.00	C
ATOM	12458	O	ARG	K	136	4.519	17.391-174.505	1.00	0.00	O
ATOM	12459	CB	ARG	K	136	4.276	15.292-177.124	1.00	0.00	C
ATOM	12460	1HB	ARG	K	136	5.298	15.159-177.485	1.00	0.00	H
ATOM	12461	2HB	ARG	K	136	4.190	14.683-176.222	1.00	0.00	H
ATOM	12462	CG	ARG	K	136	3.321	14.698-178.178	1.00	0.00	C
ATOM	12463	1HG	ARG	K	136	3.603	13.655-178.320	1.00	0.00	H
ATOM	12464	2HG	ARG	K	136	2.303	14.705-177.785	1.00	0.00	H
ATOM	12465	CD	ARG	K	136	3.354	15.380-179.561	1.00	0.00	C
ATOM	12466	1HD	ARG	K	136	4.387	15.601-179.828	1.00	0.00	H
ATOM	12467	2HD	ARG	K	136	2.963	14.687-180.307	1.00	0.00	H
ATOM	12468	NE	ARG	K	136	2.562	16.625-179.592	1.00	0.00	N
ATOM	12469	HE	ARG	K	136	3.074	17.499-179.524	1.00	0.00	H
ATOM	12470	CZ	ARG	K	136	1.251	16.729-179.545	1.00	0.00	C
ATOM	12471	NH1	ARG	K	136	0.492	15.697-179.719	1.00	0.00	N
ATOM	12472	1HH1	ARG	K	136	0.872	14.786-179.922	1.00	0.00	H
ATOM	12473	2HH1	ARG	K	136	-0.513	15.878-179.685	1.00	0.00	H
ATOM	12474	NH2	ARG	K	136	0.640	17.843-179.277	1.00	0.00	N
ATOM	12475	1HH2	ARG	K	136	1.108	18.707-179.017	1.00	0.00	H
ATOM	12476	2HH2	ARG	K	136	-0.379	17.808-179.200	1.00	0.00	H
ATOM	12477	N	VAL	K	137	2.429	16.624-174.931	1.00	0.00	N
ATOM	12478	H	VAL	K	137	1.822	16.230-175.634	1.00	0.00	H
ATOM	12479	CA	VAL	K	137	1.792	16.912-173.633	1.00	0.00	C
ATOM	12480	HA	VAL	K	137	2.562	16.935-172.867	1.00	0.00	H
ATOM	12481	C	VAL	K	137	0.766	15.839-173.243	1.00	0.00	C
ATOM	12482	O	VAL	K	137	0.142	15.237-174.117	1.00	0.00	O
ATOM	12483	CB	VAL	K	137	1.117	18.307-173.685	1.00	0.00	C
ATOM	12484	HB	VAL	K	137	1.886	19.023-173.973	1.00	0.00	H
ATOM	12485	CG1	VAL	K	137	-0.004	18.403-174.727	1.00	0.00	C
ATOM	12486	1HG1	VAL	K	137	-0.806	17.701-174.504	1.00	0.00	H
ATOM	12487	2HG1	VAL	K	137	0.382	18.206-175.727	1.00	0.00	H
ATOM	12488	3HG1	VAL	K	137	-0.416	19.410-174.715	1.00	0.00	H
ATOM	12489	CG2	VAL	K	137	0.549	18.776-172.338	1.00	0.00	C
ATOM	12490	1HG2	VAL	K	137	0.291	19.835-172.403	1.00	0.00	H
ATOM	12491	2HG2	VAL	K	137	1.285	18.646-171.545	1.00	0.00	H
ATOM	12492	3HG2	VAL	K	137	-0.353	18.221-172.082	1.00	0.00	H
ATOM	12493	N	THR	K	138	0.556	15.667-171.936	1.00	0.00	N
ATOM	12494	H	THR	K	138	1.157	16.179-171.297	1.00	0.00	H
ATOM	12495	CA	THR	K	138	-0.528	14.885-171.310	1.00	0.00	C
ATOM	12496	HA	THR	K	138	-1.366	14.784-171.998	1.00	0.00	H
ATOM	12497	C	THR	K	138	-0.986	15.610-170.035	1.00	0.00	C

ATOM	12498	O	THR	K	138	-0.179	16.299-169.410	1.00	0.00	O
ATOM	12499	CB	THR	K	138	-0.023	13.490-170.912	1.00	0.00	C
ATOM	12500	HB	THR	K	138	0.767	13.642-170.185	1.00	0.00	H
ATOM	12501	OG1	THR	K	138	0.513	12.773-172.000	1.00	0.00	O
ATOM	12502	HG1	THR	K	138	0.917	11.987-171.618	1.00	0.00	H
ATOM	12503	CG2	THR	K	138	-1.085	12.568-170.308	1.00	0.00	C
ATOM	12504	1HG2	THR	K	138	-1.369	12.920-169.317	1.00	0.00	H
ATOM	12505	2HG2	THR	K	138	-0.684	11.560-170.196	1.00	0.00	H
ATOM	12506	3HG2	THR	K	138	-1.964	12.534-170.953	1.00	0.00	H
ATOM	12507	N	ILE	K	139	-2.253	15.442-169.635	1.00	0.00	N
ATOM	12508	H	ILE	K	139	-2.858	14.835-170.169	1.00	0.00	H
ATOM	12509	CA	ILE	K	139	-2.858	16.037-168.428	1.00	0.00	C
ATOM	12510	HA	ILE	K	139	-2.091	16.123-167.660	1.00	0.00	H
ATOM	12511	C	ILE	K	139	-3.981	15.137-167.878	1.00	0.00	C
ATOM	12512	O	ILE	K	139	-4.624	14.407-168.643	1.00	0.00	O
ATOM	12513	CB	ILE	K	139	-3.381	17.459-168.759	1.00	0.00	C
ATOM	12514	HB	ILE	K	139	-2.557	18.005-169.221	1.00	0.00	H
ATOM	12515	CG1	ILE	K	139	-3.800	18.249-167.498	1.00	0.00	C
ATOM	12516	1HG1	ILE	K	139	-4.740	17.857-167.107	1.00	0.00	H
ATOM	12517	2HG1	ILE	K	139	-3.040	18.122-166.732	1.00	0.00	H
ATOM	12518	CG2	ILE	K	139	-4.542	17.411-169.770	1.00	0.00	C
ATOM	12519	1HG2	ILE	K	139	-4.816	18.420-170.057	1.00	0.00	H
ATOM	12520	2HG2	ILE	K	139	-5.422	16.940-169.330	1.00	0.00	H
ATOM	12521	3HG2	ILE	K	139	-4.255	16.863-170.666	1.00	0.00	H
ATOM	12522	CD1	ILE	K	139	-3.965	19.757-167.738	1.00	0.00	C
ATOM	12523	1HD1	ILE	K	139	-3.055	20.168-168.176	1.00	0.00	H
ATOM	12524	2HD1	ILE	K	139	-4.153	20.253-166.785	1.00	0.00	H
ATOM	12525	3HD1	ILE	K	139	-4.809	19.952-168.400	1.00	0.00	H
ATOM	12526	N	LEU	K	140	-4.240	15.204-166.568	1.00	0.00	N
ATOM	12527	H	LEU	K	140	-3.648	15.806-165.999	1.00	0.00	H
ATOM	12528	CA	LEU	K	140	-5.392	14.565-165.914	1.00	0.00	C
ATOM	12529	HA	LEU	K	140	-6.202	14.547-166.640	1.00	0.00	H
ATOM	12530	C	LEU	K	140	-5.904	15.415-164.726	1.00	0.00	C
ATOM	12531	O	LEU	K	140	-5.629	16.612-164.656	1.00	0.00	O
ATOM	12532	CB	LEU	K	140	-5.015	13.114-165.542	1.00	0.00	C
ATOM	12533	1HB	LEU	K	140	-4.246	12.752-166.228	1.00	0.00	H
ATOM	12534	2HB	LEU	K	140	-4.578	13.129-164.547	1.00	0.00	H
ATOM	12535	CG	LEU	K	140	-6.179	12.103-165.578	1.00	0.00	C
ATOM	12536	HG	LEU	K	140	-6.990	12.451-164.938	1.00	0.00	H
ATOM	12537	CD1	LEU	K	140	-6.732	11.881-166.989	1.00	0.00	C
ATOM	12538	1HD1	LEU	K	140	-7.184	12.794-167.373	1.00	0.00	H
ATOM	12539	2HD1	LEU	K	140	-7.493	11.102-166.978	1.00	0.00	H
ATOM	12540	3HD1	LEU	K	140	-5.925	11.587-167.663	1.00	0.00	H
ATOM	12541	CD2	LEU	K	140	-5.713	10.745-165.053	1.00	0.00	C
ATOM	12542	1HD2	LEU	K	140	-4.906	10.364-165.679	1.00	0.00	H
ATOM	12543	2HD2	LEU	K	140	-6.539	10.037-165.057	1.00	0.00	H
ATOM	12544	3HD2	LEU	K	140	-5.344	10.856-164.035	1.00	0.00	H
ATOM	12545	N	THR	K	141	-6.733	14.868-163.827	1.00	0.00	N
ATOM	12546	H	THR	K	141	-6.890	13.874-163.850	1.00	0.00	H
ATOM	12547	CA	THR	K	141	-7.428	15.653-162.785	1.00	0.00	C
ATOM	12548	HA	THR	K	141	-6.760	16.447-162.453	1.00	0.00	H
ATOM	12549	C	THR	K	141	-7.812	14.838-161.544	1.00	0.00	C
ATOM	12550	O	THR	K	141	-8.254	13.689-161.636	1.00	0.00	O
ATOM	12551	CB	THR	K	141	-8.679	16.321-163.391	1.00	0.00	C
ATOM	12552	HB	THR	K	141	-9.221	15.590-163.992	1.00	0.00	H
ATOM	12553	OG1	THR	K	141	-8.271	17.387-164.210	1.00	0.00	O
ATOM	12554	HG1	THR	K	141	-7.382	17.209-164.556	1.00	0.00	H
ATOM	12555	CG2	THR	K	141	-9.654	16.956-162.397	1.00	0.00	C
ATOM	12556	1HG2	THR	K	141	-10.139	16.187-161.797	1.00	0.00	H
ATOM	12557	2HG2	THR	K	141	-10.425	17.497-162.947	1.00	0.00	H
ATOM	12558	3HG2	THR	K	141	-9.127	17.656-161.749	1.00	0.00	H
ATOM	12559	N	ASP	K	142	-7.685	15.524-160.403	1.00	0.00	N
ATOM	12560	H	ASP	K	142	-7.296	16.444-160.508	1.00	0.00	H
ATOM	12561	CA	ASP	K	142	-8.066	15.190-159.024	1.00	0.00	C
ATOM	12562	HA	ASP	K	142	-7.265	14.597-158.579	1.00	0.00	H
ATOM	12563	C	ASP	K	142	-9.387	14.413-158.849	1.00	0.00	C
ATOM	12564	O	ASP	K	142	-10.355	14.576-159.592	1.00	0.00	O
ATOM	12565	CB	ASP	K	142	-8.132	16.536-158.283	1.00	0.00	C
ATOM	12566	1HB	ASP	K	142	-7.137	16.985-158.269	1.00	0.00	H
ATOM	12567	2HB	ASP	K	142	-8.792	17.188-158.857	1.00	0.00	H
ATOM	12568	CG	ASP	K	142	-8.662	16.474-156.848	1.00	0.00	C
ATOM	12569	OD1	ASP	K	142	-8.303	15.534-156.104	1.00	0.00	O
ATOM	12570	OD2	ASP	K	142	-9.451	17.369-156.468	1.00	0.00	O
ATOM	12571	N	LYS	K	143	-9.430	13.595-157.791	1.00	0.00	N
ATOM	12572	H	LYS	K	143	-8.606	13.602-157.198	1.00	0.00	H
ATOM	12573	CA	LYS	K	143	-10.543	12.700-157.421	1.00	0.00	C
ATOM	12574	HA	LYS	K	143	-11.440	13.004-157.962	1.00	0.00	H

ATOM	12575	C	LYS	K	143	-10.890	12.773-155.922	1.00	0.00	C
ATOM	12576	O	LYS	K	143	-11.722	11.994-155.457	1.00	0.00	O
ATOM	12577	CB	LYS	K	143	-10.163	11.263-157.836	1.00	0.00	C
ATOM	12578	1HB	LYS	K	143	-9.232	11.005-157.328	1.00	0.00	H
ATOM	12579	2HB	LYS	K	143	-10.933	10.565-157.504	1.00	0.00	H
ATOM	12580	CG	LYS	K	143	-9.986	11.102-159.360	1.00	0.00	C
ATOM	12581	1HG	LYS	K	143	-10.963	11.051-159.842	1.00	0.00	H
ATOM	12582	2HG	LYS	K	143	-9.467	11.968-159.759	1.00	0.00	H
ATOM	12583	CD	LYS	K	143	-9.163	9.854-159.711	1.00	0.00	C
ATOM	12584	1HD	LYS	K	143	-8.345	9.757-158.998	1.00	0.00	H
ATOM	12585	2HD	LYS	K	143	-9.795	8.970-159.625	1.00	0.00	H
ATOM	12586	CE	LYS	K	143	-8.552	9.924-161.119	1.00	0.00	C
ATOM	12587	1HE	LYS	K	143	-8.028	8.983-161.306	1.00	0.00	H
ATOM	12588	2HE	LYS	K	143	-9.340	10.044-161.865	1.00	0.00	H
ATOM	12589	NZ	LYS	K	143	-7.581	11.036-161.222	1.00	0.00	N
ATOM	12590	1HZ	LYS	K	143	-6.786	10.851-161.835	1.00	0.00	H
ATOM	12591	2HZ	LYS	K	143	-7.112	11.189-160.334	1.00	0.00	H
ATOM	12592	3HZ	LYS	K	143	-7.989	11.941-161.452	1.00	0.00	H
ATOM	12593	N	PHE	K	144	-10.252	13.671-155.164	1.00	0.00	N
ATOM	12594	H	PHE	K	144	-9.610	14.307-155.632	1.00	0.00	H
ATOM	12595	CA	PHE	K	144	-10.206	13.647-153.695	1.00	0.00	C
ATOM	12596	HA	PHE	K	144	-11.094	13.146-153.309	1.00	0.00	C
ATOM	12597	C	PHE	K	144	-10.178	15.047-153.051	1.00	0.00	H
ATOM	12598	O	PHE	K	144	-10.917	15.277-152.093	1.00	0.00	O
ATOM	12599	CB	PHE	K	144	-8.972	12.805-153.313	1.00	0.00	C
ATOM	12600	1HB	PHE	K	144	-9.224	11.757-153.474	1.00	0.00	H
ATOM	12601	2HB	PHE	K	144	-8.164	13.052-154.006	1.00	0.00	H
ATOM	12602	CG	PHE	K	144	-8.418	12.944-151.904	1.00	0.00	C
ATOM	12603	CD1	PHE	K	144	-9.262	12.913-150.776	1.00	0.00	C
ATOM	12604	HD1	PHE	K	144	-10.329	12.806-150.902	1.00	0.00	H
ATOM	12605	CD2	PHE	K	144	-7.028	13.088-151.724	1.00	0.00	C
ATOM	12606	HD2	PHE	K	144	-6.363	13.088-152.578	1.00	0.00	H
ATOM	12607	CE1	PHE	K	144	-8.722	13.060-149.484	1.00	0.00	C
ATOM	12608	HE1	PHE	K	144	-9.372	13.065-148.623	1.00	0.00	H
ATOM	12609	CE2	PHE	K	144	-6.488	13.235-150.436	1.00	0.00	C
ATOM	12610	HE2	PHE	K	144	-5.419	13.366-150.314	1.00	0.00	H
ATOM	12611	CZ	PHE	K	144	-7.335	13.226-149.315	1.00	0.00	C
ATOM	12612	HZ	PHE	K	144	-6.915	13.356-148.327	1.00	0.00	H
ATOM	12613	N	GLY	K	145	-9.396	15.990-153.581	1.00	0.00	N
ATOM	12614	H	GLY	K	145	-8.908	15.769-154.447	1.00	0.00	H
ATOM	12615	CA	GLY	K	145	-9.297	17.366-153.074	1.00	0.00	C
ATOM	12616	1HA	GLY	K	145	-10.186	17.913-153.383	1.00	0.00	H
ATOM	12617	2HA	GLY	K	145	-9.277	17.333-151.984	1.00	0.00	H
ATOM	12618	C	GLY	K	145	-8.061	18.160-153.529	1.00	0.00	C
ATOM	12619	O	GLY	K	145	-8.053	19.383-153.391	1.00	0.00	O
ATOM	12620	N	GLN	K	146	-7.054	17.493-154.092	1.00	0.00	N
ATOM	12621	H	GLN	K	146	-7.224	16.518-154.306	1.00	0.00	H
ATOM	12622	CA	GLN	K	146	-5.691	17.973-154.395	1.00	0.00	C
ATOM	12623	HA	GLN	K	146	-5.268	18.418-153.493	1.00	0.00	H
ATOM	12624	C	GLN	K	146	-5.635	19.060-155.508	1.00	0.00	C
ATOM	12625	O	GLN	K	146	-6.663	19.309-156.147	1.00	0.00	O
ATOM	12626	CB	GLN	K	146	-4.894	16.693-154.721	1.00	0.00	C
ATOM	12627	1HB	GLN	K	146	-5.429	16.120-155.481	1.00	0.00	H
ATOM	12628	2HB	GLN	K	146	-3.909	16.925-155.114	1.00	0.00	H
ATOM	12629	CG	GLN	K	146	-4.726	15.848-153.438	1.00	0.00	C
ATOM	12630	1HG	GLN	K	146	-4.061	16.387-152.767	1.00	0.00	H
ATOM	12631	2HG	GLN	K	146	-5.675	15.719-152.920	1.00	0.00	H
ATOM	12632	CD	GLN	K	146	-4.183	14.450-153.695	1.00	0.00	C
ATOM	12633	OE1	GLN	K	146	-4.651	13.757-154.588	1.00	0.00	O
ATOM	12634	NE2	GLN	K	146	-3.251	13.995-152.892	1.00	0.00	N
ATOM	12635	1HE2	GLN	K	146	-2.703	13.179-153.180	1.00	0.00	H
ATOM	12636	2HE2	GLN	K	146	-2.883	14.595-152.148	1.00	0.00	H
ATOM	12637	N	PRO	K	147	-4.508	19.776-155.746	1.00	0.00	N
ATOM	12638	CA	PRO	K	147	-4.447	20.941-156.653	1.00	0.00	C
ATOM	12639	HA	PRO	K	147	-5.301	21.585-156.443	1.00	0.00	H
ATOM	12640	C	PRO	K	147	-4.520	20.597-158.163	1.00	0.00	C
ATOM	12641	O	PRO	K	147	-3.523	20.586-158.888	1.00	0.00	O
ATOM	12642	CB	PRO	K	147	-3.201	21.727-156.236	1.00	0.00	C
ATOM	12643	1HB	PRO	K	147	-2.761	22.281-157.063	1.00	0.00	H
ATOM	12644	2HB	PRO	K	147	-3.466	22.422-155.438	1.00	0.00	H
ATOM	12645	CG	PRO	K	147	-2.275	20.655-155.669	1.00	0.00	C
ATOM	12646	1HG	PRO	K	147	-1.745	20.152-156.478	1.00	0.00	H
ATOM	12647	2HG	PRO	K	147	-1.568	21.072-154.951	1.00	0.00	H
ATOM	12648	CD	PRO	K	147	-3.250	19.682-155.004	1.00	0.00	C
ATOM	12649	1HD	PRO	K	147	-2.826	18.683-155.035	1.00	0.00	H
ATOM	12650	2HD	PRO	K	147	-3.414	19.983-153.968	1.00	0.00	H
ATOM	12651	N	LYS	K	148	-5.753	20.277-158.579	1.00	0.00	N

ATOM	12652	H	LYS	K	148	-6.418	20.237-157.821	1.00	0.00	H
ATOM	12653	CA	LYS	K	148	-6.291	19.862-159.888	1.00	0.00	C
ATOM	12654	HA	LYS	K	148	-6.295	18.774-159.902	1.00	0.00	H
ATOM	12655	C	LYS	K	148	-5.515	20.329-161.133	1.00	0.00	C
ATOM	12656	O	LYS	K	148	-5.597	21.490-161.506	1.00	0.00	O
ATOM	12657	CB	LYS	K	148	-7.761	20.337-160.018	1.00	0.00	C
ATOM	12658	1HB	LYS	K	148	-7.776	21.399-160.266	1.00	0.00	H
ATOM	12659	2HB	LYS	K	148	-8.199	19.812-160.868	1.00	0.00	H
ATOM	12660	CG	LYS	K	148	-8.682	20.121-158.801	1.00	0.00	C
ATOM	12661	1HG	LYS	K	148	-9.690	19.916-159.165	1.00	0.00	H
ATOM	12662	2HG	LYS	K	148	-8.337	19.256-158.245	1.00	0.00	H
ATOM	12663	CD	LYS	K	148	-8.753	21.339-157.861	1.00	0.00	C
ATOM	12664	1HD	LYS	K	148	-7.763	21.579-157.476	1.00	0.00	H
ATOM	12665	2HD	LYS	K	148	-9.103	22.203-158.426	1.00	0.00	H
ATOM	12666	CE	LYS	K	148	-9.710	21.127-156.680	1.00	0.00	C
ATOM	12667	1HE	LYS	K	148	-9.709	22.043-156.082	1.00	0.00	H
ATOM	12668	2HE	LYS	K	148	-10.722	20.969-157.063	1.00	0.00	H
ATOM	12669	NZ	LYS	K	148	-9.303	19.983-155.834	1.00	0.00	N
ATOM	12670	1HZ	LYS	K	148	-8.295	19.961-155.692	1.00	0.00	H
ATOM	12671	2HZ	LYS	K	148	-9.503	19.077-156.267	1.00	0.00	H
ATOM	12672	3HZ	LYS	K	148	-9.714	19.993-154.914	1.00	0.00	H
ATOM	12673	N	GLY	K	149	-4.889	19.384-161.842	1.00	0.00	N
ATOM	12674	H	GLY	K	149	-4.830	18.463-161.449	1.00	0.00	H
ATOM	12675	CA	GLY	K	149	-4.462	19.577-163.241	1.00	0.00	C
ATOM	12676	1HA	GLY	K	149	-5.173	19.071-163.892	1.00	0.00	H
ATOM	12677	2HA	GLY	K	149	-4.482	20.636-163.504	1.00	0.00	H
ATOM	12678	C	GLY	K	149	-3.068	19.041-163.579	1.00	0.00	C
ATOM	12679	O	GLY	K	149	-2.386	19.627-164.414	1.00	0.00	O
ATOM	12680	N	PHE	K	150	-2.597	17.992-162.894	1.00	0.00	N
ATOM	12681	H	PHE	K	150	-3.201	17.516-162.248	1.00	0.00	H
ATOM	12682	CA	PHE	K	150	-1.236	17.464-163.064	1.00	0.00	C
ATOM	12683	HA	PHE	K	150	-0.525	18.242-162.779	1.00	0.00	H
ATOM	12684	C	PHE	K	150	-0.959	17.086-164.527	1.00	0.00	C
ATOM	12685	O	PHE	K	150	-1.809	16.483-165.189	1.00	0.00	O
ATOM	12686	CB	PHE	K	150	-1.013	16.241-162.160	1.00	0.00	C
ATOM	12687	1HB	PHE	K	150	-1.617	15.421-162.553	1.00	0.00	H
ATOM	12688	2HB	PHE	K	150	0.032	15.943-162.252	1.00	0.00	H
ATOM	12689	CG	PHE	K	150	-1.330	16.372-160.676	1.00	0.00	C
ATOM	12690	CD1	PHE	K	150	-1.494	17.623-160.040	1.00	0.00	C
ATOM	12691	HD1	PHE	K	150	-1.364	18.546-160.586	1.00	0.00	H
ATOM	12692	CD2	PHE	K	150	-1.458	15.192-159.917	1.00	0.00	C
ATOM	12693	HD2	PHE	K	150	-1.315	14.224-160.381	1.00	0.00	H
ATOM	12694	CE1	PHE	K	150	-1.852	17.684-158.682	1.00	0.00	C
ATOM	12695	HE1	PHE	K	150	-2.000	18.640-158.204	1.00	0.00	H
ATOM	12696	CE2	PHE	K	150	-1.774	15.260-158.551	1.00	0.00	C
ATOM	12697	HE2	PHE	K	150	-1.827	14.353-157.965	1.00	0.00	H
ATOM	12698	CZ	PHE	K	150	-2.013	16.501-157.942	1.00	0.00	C
ATOM	12699	HZ	PHE	K	150	-2.279	16.541-156.895	1.00	0.00	H
ATOM	12700	N	ALA	K	151	0.235	17.426-165.016	1.00	0.00	N
ATOM	12701	H	ALA	K	151	0.907	17.870-164.398	1.00	0.00	H
ATOM	12702	CA	ALA	K	151	0.593	17.300-166.425	1.00	0.00	C
ATOM	12703	HA	ALA	K	151	0.025	16.481-166.868	1.00	0.00	H
ATOM	12704	C	ALA	K	151	2.083	16.984-166.626	1.00	0.00	C
ATOM	12705	O	ALA	K	151	2.904	17.117-165.718	1.00	0.00	O
ATOM	12706	CB	ALA	K	151	0.203	18.612-167.130	1.00	0.00	C
ATOM	12707	1HB	ALA	K	151	0.432	18.557-168.194	1.00	0.00	H
ATOM	12708	2HB	ALA	K	151	0.742	19.452-166.693	1.00	0.00	H
ATOM	12709	3HB	ALA	K	151	-0.864	18.791-167.013	1.00	0.00	H
ATOM	12710	N	TYR	K	152	2.458	16.616-167.851	1.00	0.00	N
ATOM	12711	H	TYR	K	152	1.738	16.515-168.561	1.00	0.00	H
ATOM	12712	CA	TYR	K	152	3.859	16.521-168.268	1.00	0.00	C
ATOM	12713	HA	TYR	K	152	4.420	17.294-167.742	1.00	0.00	H
ATOM	12714	C	TYR	K	152	4.017	16.790-169.767	1.00	0.00	C
ATOM	12715	O	TYR	K	152	3.062	16.672-170.537	1.00	0.00	O
ATOM	12716	CB	TYR	K	152	4.450	15.155-167.873	1.00	0.00	C
ATOM	12717	1HB	TYR	K	152	5.525	15.169-168.044	1.00	0.00	H
ATOM	12718	2HB	TYR	K	152	4.305	15.005-166.802	1.00	0.00	H
ATOM	12719	CG	TYR	K	152	3.886	13.961-168.610	1.00	0.00	C
ATOM	12720	CD1	TYR	K	152	4.533	13.454-169.754	1.00	0.00	C
ATOM	12721	HD1	TYR	K	152	5.420	13.944-170.133	1.00	0.00	H
ATOM	12722	CD2	TYR	K	152	2.708	13.355-168.143	1.00	0.00	C
ATOM	12723	HD2	TYR	K	152	2.185	13.763-167.283	1.00	0.00	H
ATOM	12724	CE1	TYR	K	152	3.990	12.348-170.438	1.00	0.00	C
ATOM	12725	HE1	TYR	K	152	4.443	12.004-171.352	1.00	0.00	H
ATOM	12726	CE2	TYR	K	152	2.191	12.227-168.798	1.00	0.00	C
ATOM	12727	HE2	TYR	K	152	1.268	11.792-168.450	1.00	0.00	H
ATOM	12728	CZ	TYR	K	152	2.819	11.726-169.954	1.00	0.00	C

ATOM	12729	OH	TYR	K	152	2.265	10.682-170.625	1.00	0.00	O
ATOM	12730	HH	TYR	K	152	2.849	10.338-171.303	1.00	0.00	H
ATOM	12731	N	VAL	K	153	5.241	17.130-170.183	1.00	0.00	N
ATOM	12732	H	VAL	K	153	5.974	17.188-169.482	1.00	0.00	H
ATOM	12733	CA	VAL	K	153	5.599	17.451-171.577	1.00	0.00	C
ATOM	12734	HA	VAL	K	153	4.872	16.970-172.224	1.00	0.00	H
ATOM	12735	C	VAL	K	153	6.973	16.884-171.960	1.00	0.00	C
ATOM	12736	O	VAL	K	153	7.746	16.490-171.084	1.00	0.00	O
ATOM	12737	CB	VAL	K	153	5.547	18.976-171.848	1.00	0.00	C
ATOM	12738	HB	VAL	K	153	5.842	19.144-172.883	1.00	0.00	H
ATOM	12739	CG1	VAL	K	153	4.147	19.567-171.686	1.00	0.00	C
ATOM	12740	1HG1	VAL	K	153	3.818	19.511-170.648	1.00	0.00	H
ATOM	12741	2HG1	VAL	K	153	3.461	19.009-172.312	1.00	0.00	H
ATOM	12742	3HG1	VAL	K	153	4.140	20.608-172.008	1.00	0.00	H
ATOM	12743	CG2	VAL	K	153	6.492	19.783-170.957	1.00	0.00	C
ATOM	12744	1HG2	VAL	K	153	6.208	19.671-169.911	1.00	0.00	H
ATOM	12745	2HG2	VAL	K	153	6.440	20.839-171.221	1.00	0.00	H
ATOM	12746	3HG2	VAL	K	153	7.514	19.443-171.106	1.00	0.00	H
ATOM	12747	N	GLU	K	154	7.304	16.844-173.258	1.00	0.00	N
ATOM	12748	H	GLU	K	154	6.623	17.171-173.936	1.00	0.00	H
ATOM	12749	CA	GLU	K	154	8.614	16.368-173.751	1.00	0.00	C
ATOM	12750	HA	GLU	K	154	9.339	16.570-172.966	1.00	0.00	H
ATOM	12751	C	GLU	K	154	9.134	17.093-175.005	1.00	0.00	C
ATOM	12752	O	GLU	K	154	8.358	17.703-175.744	1.00	0.00	O
ATOM	12753	CB	GLU	K	154	8.578	14.836-173.973	1.00	0.00	C
ATOM	12754	1HB	GLU	K	154	9.582	14.439-173.835	1.00	0.00	H
ATOM	12755	2HB	GLU	K	154	7.969	14.392-173.184	1.00	0.00	H
ATOM	12756	CG	GLU	K	154	8.033	14.338-175.332	1.00	0.00	C
ATOM	12757	1HG	GLU	K	154	7.670	13.318-175.193	1.00	0.00	H
ATOM	12758	2HG	GLU	K	154	7.174	14.949-175.619	1.00	0.00	H
ATOM	12759	CD	GLU	K	154	9.085	14.316-176.461	1.00	0.00	C
ATOM	12760	OE1	GLU	K	154	8.812	14.874-177.550	1.00	0.00	O
ATOM	12761	OE2	GLU	K	154	10.182	13.752-176.253	1.00	0.00	O
ATOM	12762	N	PHE	K	155	10.437	16.957-175.286	1.00	0.00	N
ATOM	12763	H	PHE	K	155	11.013	16.462-174.611	1.00	0.00	H
ATOM	12764	CA	PHE	K	155	11.010	17.169-176.621	1.00	0.00	C
ATOM	12765	HA	PHE	K	155	10.214	17.000-177.347	1.00	0.00	H
ATOM	12766	C	PHE	K	155	12.142	16.172-176.936	1.00	0.00	C
ATOM	12767	O	PHE	K	155	13.127	16.040-176.199	1.00	0.00	O
ATOM	12768	CB	PHE	K	155	11.491	18.618-176.797	1.00	0.00	C
ATOM	12769	1HB	PHE	K	155	10.737	19.291-176.396	1.00	0.00	H
ATOM	12770	2HB	PHE	K	155	12.403	18.772-176.219	1.00	0.00	H
ATOM	12771	CG	PHE	K	155	11.748	18.981-178.253	1.00	0.00	C
ATOM	12772	CD1	PHE	K	155	10.766	19.639-179.014	1.00	0.00	C
ATOM	12773	HD1	PHE	K	155	9.833	19.919-178.557	1.00	0.00	H
ATOM	12774	CD2	PHE	K	155	12.966	18.633-178.861	1.00	0.00	C
ATOM	12775	HD2	PHE	K	155	13.734	18.167-178.266	1.00	0.00	H
ATOM	12776	CE1	PHE	K	155	10.988	19.929-180.372	1.00	0.00	C
ATOM	12777	HE1	PHE	K	155	10.218	20.419-180.953	1.00	0.00	H
ATOM	12778	CE2	PHE	K	155	13.200	18.926-180.217	1.00	0.00	C
ATOM	12779	HE2	PHE	K	155	14.143	18.666-180.676	1.00	0.00	H
ATOM	12780	CZ	PHE	K	155	12.206	19.571-180.975	1.00	0.00	C
ATOM	12781	HZ	PHE	K	155	12.379	19.795-182.018	1.00	0.00	H
ATOM	12782	N	VAL	K	156	12.031	15.526-178.100	1.00	0.00	N
ATOM	12783	H	VAL	K	156	11.123	15.607-178.540	1.00	0.00	H
ATOM	12784	CA	VAL	K	156	12.879	14.415-178.574	1.00	0.00	C
ATOM	12785	HA	VAL	K	156	12.654	13.562-177.932	1.00	0.00	H
ATOM	12786	C	VAL	K	156	14.397	14.650-178.482	1.00	0.00	C
ATOM	12787	O	VAL	K	156	15.114	13.722-178.113	1.00	0.00	O
ATOM	12788	CB	VAL	K	156	12.478	14.019-180.013	1.00	0.00	C
ATOM	12789	HB	VAL	K	156	12.724	14.840-180.688	1.00	0.00	H
ATOM	12790	CG1	VAL	K	156	13.216	12.762-180.498	1.00	0.00	C
ATOM	12791	1HG1	VAL	K	156	14.288	12.949-180.554	1.00	0.00	H
ATOM	12792	2HG1	VAL	K	156	12.870	12.490-181.495	1.00	0.00	H
ATOM	12793	3HG1	VAL	K	156	13.027	11.935-179.812	1.00	0.00	H
ATOM	12794	CG2	VAL	K	156	10.973	13.733-180.131	1.00	0.00	C
ATOM	12795	1HG2	VAL	K	156	10.674	12.991-179.388	1.00	0.00	H
ATOM	12796	2HG2	VAL	K	156	10.732	13.366-181.128	1.00	0.00	H
ATOM	12797	3HG2	VAL	K	156	10.394	14.641-179.962	1.00	0.00	H
ATOM	12798	N	GLU	K	157	14.912	15.861-178.726	1.00	0.00	N
ATOM	12799	H	GLU	K	157	14.270	16.602-178.960	1.00	0.00	H
ATOM	12800	CA	GLU	K	157	16.357	16.175-178.671	1.00	0.00	C
ATOM	12801	HA	GLU	K	157	16.905	15.253-178.472	1.00	0.00	H
ATOM	12802	C	GLU	K	157	16.757	17.131-177.530	1.00	0.00	C
ATOM	12803	O	GLU	K	157	15.941	17.868-176.978	1.00	0.00	O
ATOM	12804	CB	GLU	K	157	16.870	16.697-180.023	1.00	0.00	C
ATOM	12805	1HB	GLU	K	157	16.234	17.506-180.382	1.00	0.00	H



ATOM	12806	2HB	GLU	K	157	17.869	17.105-179.865	1.00	0.00	H
ATOM	12807	CG	GLU	K	157	16.958	15.586-181.083	1.00	0.00	C
ATOM	12808	1HG	GLU	K	157	17.110	14.621-180.592	1.00	0.00	H
ATOM	12809	2HG	GLU	K	157	16.013	15.533-181.628	1.00	0.00	H
ATOM	12810	CD	GLU	K	157	18.135	15.828-182.038	1.00	0.00	C
ATOM	12811	OE1	GLU	K	157	17.885	16.198-183.207	1.00	0.00	O
ATOM	12812	OE2	GLU	K	157	19.285	15.637-181.579	1.00	0.00	O
ATOM	12813	N	ILE	K	158	18.032	17.056-177.126	1.00	0.00	N
ATOM	12814	H	ILE	K	158	18.655	16.482-177.675	1.00	0.00	H
ATOM	12815	CA	ILE	K	158	18.500	17.477-175.794	1.00	0.00	C
ATOM	12816	HA	ILE	K	158	17.853	17.023-175.047	1.00	0.00	H
ATOM	12817	C	ILE	K	158	18.385	18.989-175.561	1.00	0.00	C
ATOM	12818	O	ILE	K	158	17.781	19.388-174.570	1.00	0.00	O
ATOM	12819	CB	ILE	K	158	19.935	16.946-175.527	1.00	0.00	C
ATOM	12820	HB	ILE	K	158	20.557	17.154-176.400	1.00	0.00	H
ATOM	12821	CG1	ILE	K	158	19.974	15.423-175.238	1.00	0.00	C
ATOM	12822	1HG1	ILE	K	158	21.006	15.145-175.019	1.00	0.00	H
ATOM	12823	2HG1	ILE	K	158	19.381	15.212-174.347	1.00	0.00	H
ATOM	12824	CG2	ILE	K	158	20.592	17.630-174.311	1.00	0.00	C
ATOM	12825	1HG2	ILE	K	158	20.759	18.692-174.502	1.00	0.00	H
ATOM	12826	2HG2	ILE	K	158	21.565	17.186-174.101	1.00	0.00	H
ATOM	12827	3HG2	ILE	K	158	19.959	17.529-173.427	1.00	0.00	H
ATOM	12828	CD1	ILE	K	158	19.498	14.495-176.364	1.00	0.00	C
ATOM	12829	1HD1	ILE	K	158	18.415	14.549-176.470	1.00	0.00	H
ATOM	12830	2HD1	ILE	K	158	19.761	13.467-176.115	1.00	0.00	H
ATOM	12831	3HD1	ILE	K	158	19.980	14.767-177.303	1.00	0.00	H
ATOM	12832	N	ASP	K	159	18.951	19.828-176.433	1.00	0.00	N
ATOM	12833	H	ASP	K	159	19.422	19.459-177.242	1.00	0.00	H
ATOM	12834	CA	ASP	K	159	19.078	21.268-176.141	1.00	0.00	C
ATOM	12835	HA	ASP	K	159	19.547	21.359-175.164	1.00	0.00	H
ATOM	12836	C	ASP	K	159	17.721	21.998-176.077	1.00	0.00	C
ATOM	12837	O	ASP	K	159	17.533	22.940-175.311	1.00	0.00	O
ATOM	12838	CB	ASP	K	159	20.023	21.923-177.157	1.00	0.00	C
ATOM	12839	1HB	ASP	K	159	20.914	21.301-177.263	1.00	0.00	H
ATOM	12840	2HB	ASP	K	159	19.526	21.971-178.129	1.00	0.00	H
ATOM	12841	CG	ASP	K	159	20.472	23.326-176.727	1.00	0.00	C
ATOM	12842	OD1	ASP	K	159	20.675	24.158-177.636	1.00	0.00	O
ATOM	12843	OD2	ASP	K	159	20.667	23.532-175.506	1.00	0.00	O
ATOM	12844	N	ALA	K	160	16.729	21.508-176.821	1.00	0.00	N
ATOM	12845	H	ALA	K	160	16.919	20.698-177.388	1.00	0.00	H
ATOM	12846	CA	ALA	K	160	15.357	21.999-176.760	1.00	0.00	C
ATOM	12847	HA	ALA	K	160	15.339	23.058-177.024	1.00	0.00	H
ATOM	12848	C	ALA	K	160	14.755	21.861-175.351	1.00	0.00	C
ATOM	12849	O	ALA	K	160	14.381	22.865-174.741	1.00	0.00	O
ATOM	12850	CB	ALA	K	160	14.560	21.215-177.797	1.00	0.00	C
ATOM	12851	1HB	ALA	K	160	13.499	21.427-177.679	1.00	0.00	H
ATOM	12852	2HB	ALA	K	160	14.723	20.152-177.642	1.00	0.00	H
ATOM	12853	3HB	ALA	K	160	14.878	21.489-178.804	1.00	0.00	H
ATOM	12854	N	VAL	K	161	14.728	20.641-174.792	1.00	0.00	N
ATOM	12855	H	VAL	K	161	15.080	19.856-175.323	1.00	0.00	H
ATOM	12856	CA	VAL	K	161	14.252	20.426-173.414	1.00	0.00	C
ATOM	12857	HA	VAL	K	161	13.305	20.954-173.329	1.00	0.00	H
ATOM	12858	C	VAL	K	161	15.179	21.060-172.370	1.00	0.00	C
ATOM	12859	O	VAL	K	161	14.685	21.572-171.374	1.00	0.00	O
ATOM	12860	CB	VAL	K	161	13.934	18.946-173.116	1.00	0.00	C
ATOM	12861	HB	VAL	K	161	13.227	18.603-173.873	1.00	0.00	H
ATOM	12862	CG1	VAL	K	161	15.157	18.027-173.182	1.00	0.00	C
ATOM	12863	1HG1	VAL	K	161	15.901	18.328-172.444	1.00	0.00	H
ATOM	12864	2HG1	VAL	K	161	15.585	18.075-174.180	1.00	0.00	H
ATOM	12865	3HG1	VAL	K	161	14.843	17.006-172.969	1.00	0.00	H
ATOM	12866	CG2	VAL	K	161	13.253	18.779-171.752	1.00	0.00	C
ATOM	12867	1HG2	VAL	K	161	13.937	19.035-170.943	1.00	0.00	H
ATOM	12868	2HG2	VAL	K	161	12.933	17.748-171.619	1.00	0.00	H
ATOM	12869	3HG2	VAL	K	161	12.375	19.424-171.695	1.00	0.00	H
ATOM	12870	N	GLN	K	162	16.494	21.124-172.614	1.00	0.00	N
ATOM	12871	H	GLN	K	162	16.847	20.673-173.451	1.00	0.00	H
ATOM	12872	CA	GLN	K	162	17.466	21.823-171.756	1.00	0.00	C
ATOM	12873	HA	GLN	K	162	17.464	21.346-170.777	1.00	0.00	H
ATOM	12874	C	GLN	K	162	17.123	23.308-171.530	1.00	0.00	C
ATOM	12875	O	GLN	K	162	17.424	23.845-170.468	1.00	0.00	O
ATOM	12876	CB	GLN	K	162	18.864	21.653-172.370	1.00	0.00	C
ATOM	12877	1HB	GLN	K	162	19.056	20.588-172.505	1.00	0.00	H
ATOM	12878	2HB	GLN	K	162	18.871	22.138-173.339	1.00	0.00	H
ATOM	12879	CG	GLN	K	162	20.017	22.248-171.552	1.00	0.00	C
ATOM	12880	1HG	GLN	K	162	19.949	23.337-171.561	1.00	0.00	H
ATOM	12881	2HG	GLN	K	162	19.947	21.901-170.521	1.00	0.00	H
ATOM	12882	CD	GLN	K	162	21.372	21.834-172.121	1.00	0.00	C

ATOM	12883	OE1	GLN	K	162	22.107	21.055-171.534	1.00	0.00	O
ATOM	12884	NE2	GLN	K	162	21.767	22.287-173.291	1.00	0.00	N
ATOM	12885	1HE2	GLN	K	162	22.672	22.005-173.600	1.00	0.00	H
ATOM	12886	2HE2	GLN	K	162	21.190	22.898-173.882	1.00	0.00	H
ATOM	12887	N	ASN	K	163	16.455	23.953-172.493	1.00	0.00	N
ATOM	12888	H	ASN	K	163	16.278	23.462-173.359	1.00	0.00	H
ATOM	12889	CA	ASN	K	163	15.920	25.308-172.342	1.00	0.00	C
ATOM	12890	HA	ASN	K	163	16.494	25.851-171.586	1.00	0.00	H
ATOM	12891	C	ASN	K	163	14.456	25.292-171.852	1.00	0.00	C
ATOM	12892	O	ASN	K	163	14.105	26.042-170.943	1.00	0.00	O
ATOM	12893	CB	ASN	K	163	16.084	26.046-173.683	1.00	0.00	C
ATOM	12894	1HB	ASN	K	163	15.694	25.439-174.500	1.00	0.00	H
ATOM	12895	2HB	ASN	K	163	15.517	26.976-173.647	1.00	0.00	H
ATOM	12896	CG	ASN	K	163	17.535	26.414-173.967	1.00	0.00	C
ATOM	12897	OD1	ASN	K	163	17.996	27.490-173.629	1.00	0.00	O
ATOM	12898	ND2	ASN	K	163	18.294	25.551-174.600	1.00	0.00	N
ATOM	12899	1HD2	ASN	K	163	19.257	25.783-174.772	1.00	0.00	H
ATOM	12900	2HD2	ASN	K	163	17.953	24.632-174.859	1.00	0.00	H
ATOM	12901	N	ALA	K	164	13.603	24.407-172.386	1.00	0.00	N
ATOM	12902	H	ALA	K	164	13.929	23.808-173.136	1.00	0.00	H
ATOM	12903	CA	ALA	K	164	12.192	24.297-171.984	1.00	0.00	C
ATOM	12904	HA	ALA	K	164	11.723	25.272-172.134	1.00	0.00	H
ATOM	12905	C	ALA	K	164	11.984	23.921-170.500	1.00	0.00	C
ATOM	12906	O	ALA	K	164	10.964	24.281-169.916	1.00	0.00	O
ATOM	12907	CB	ALA	K	164	11.485	23.289-172.897	1.00	0.00	C
ATOM	12908	1HB	ALA	K	164	10.405	23.390-172.775	1.00	0.00	H
ATOM	12909	2HB	ALA	K	164	11.772	22.276-172.626	1.00	0.00	H
ATOM	12910	3HB	ALA	K	164	11.737	23.475-173.941	1.00	0.00	H
ATOM	12911	N	LEU	K	165	12.942	23.223-169.874	1.00	0.00	N
ATOM	12912	H	LEU	K	165	13.721	22.884-170.429	1.00	0.00	H
ATOM	12913	CA	LEU	K	165	12.928	22.895-168.443	1.00	0.00	C
ATOM	12914	HA	LEU	K	165	11.906	22.617-168.186	1.00	0.00	H
ATOM	12915	C	LEU	K	165	13.286	24.075-167.523	1.00	0.00	C
ATOM	12916	O	LEU	K	165	13.088	23.954-166.318	1.00	0.00	O
ATOM	12917	CB	LEU	K	165	13.799	21.645-168.171	1.00	0.00	C
ATOM	12918	1HB	LEU	K	165	13.534	21.253-167.189	1.00	0.00	H
ATOM	12919	2HB	LEU	K	165	13.504	20.890-168.902	1.00	0.00	H
ATOM	12920	CG	LEU	K	165	15.335	21.806-168.221	1.00	0.00	C
ATOM	12921	HG	LEU	K	165	15.606	22.496-169.018	1.00	0.00	H
ATOM	12922	CD1	LEU	K	165	15.953	22.286-166.903	1.00	0.00	C
ATOM	12923	1HD1	LEU	K	165	15.585	23.271-166.633	1.00	0.00	H
ATOM	12924	2HD1	LEU	K	165	17.036	22.357-167.007	1.00	0.00	H
ATOM	12925	3HD1	LEU	K	165	15.710	21.595-166.096	1.00	0.00	H
ATOM	12926	CD2	LEU	K	165	15.983	20.444-168.497	1.00	0.00	C
ATOM	12927	1HD2	LEU	K	165	15.716	19.738-167.711	1.00	0.00	H
ATOM	12928	2HD2	LEU	K	165	17.066	20.552-168.535	1.00	0.00	H
ATOM	12929	3HD2	LEU	K	165	15.637	20.059-169.454	1.00	0.00	H
ATOM	12930	N	LEU	K	166	13.780	25.194-168.069	1.00	0.00	N
ATOM	12931	H	LEU	K	166	13.856	25.228-169.079	1.00	0.00	H
ATOM	12932	CA	LEU	K	166	14.515	26.229-167.325	1.00	0.00	C
ATOM	12933	HA	LEU	K	166	14.497	25.977-166.264	1.00	0.00	H
ATOM	12934	C	LEU	K	166	13.915	27.646-167.454	1.00	0.00	C
ATOM	12935	O	LEU	K	166	14.399	28.580-166.821	1.00	0.00	O
ATOM	12936	CB	LEU	K	166	15.974	26.165-167.836	1.00	0.00	C
ATOM	12937	1HB	LEU	K	166	16.293	25.123-167.838	1.00	0.00	H
ATOM	12938	2HB	LEU	K	166	15.987	26.504-168.872	1.00	0.00	H
ATOM	12939	CG	LEU	K	166	17.032	26.971-167.056	1.00	0.00	C
ATOM	12940	HG	LEU	K	166	16.833	28.037-167.144	1.00	0.00	H
ATOM	12941	CD1	LEU	K	166	17.091	26.588-165.576	1.00	0.00	C
ATOM	12942	1HD1	LEU	K	166	16.166	26.889-165.082	1.00	0.00	H
ATOM	12943	2HD1	LEU	K	166	17.914	27.112-165.090	1.00	0.00	H
ATOM	12944	3HD1	LEU	K	166	17.227	25.512-165.468	1.00	0.00	H
ATOM	12945	CD2	LEU	K	166	18.410	26.705-167.668	1.00	0.00	C
ATOM	12946	1HD2	LEU	K	166	19.161	27.301-167.151	1.00	0.00	H
ATOM	12947	2HD2	LEU	K	166	18.400	26.985-168.721	1.00	0.00	H
ATOM	12948	3HD2	LEU	K	166	18.660	25.647-167.582	1.00	0.00	H
ATOM	12949	N	LEU	K	167	12.875	27.824-168.274	1.00	0.00	N
ATOM	12950	H	LEU	K	167	12.528	27.004-168.748	1.00	0.00	H
ATOM	12951	CA	LEU	K	167	12.369	29.134-168.722	1.00	0.00	C
ATOM	12952	HA	LEU	K	167	12.755	29.916-168.067	1.00	0.00	H
ATOM	12953	C	LEU	K	167	10.828	29.213-168.626	1.00	0.00	C
ATOM	12954	O	LEU	K	167	10.166	29.716-169.531	1.00	0.00	O
ATOM	12955	CB	LEU	K	167	12.880	29.391-170.160	1.00	0.00	C
ATOM	12956	1HB	LEU	K	167	12.467	28.614-170.806	1.00	0.00	H
ATOM	12957	2HB	LEU	K	167	12.486	30.350-170.498	1.00	0.00	H
ATOM	12958	CG	LEU	K	167	14.410	29.420-170.351	1.00	0.00	C
ATOM	12959	HG	LEU	K	167	14.853	28.499-169.977	1.00	0.00	H

ATOM	12960	CD1	LEU	K	167	14.736	29.527-171.842	1.00	0.00	C
ATOM	12961	1HD1	LEU	K	167	15.815	29.494-171.989	1.00	0.00	H
ATOM	12962	2HD1	LEU	K	167	14.336	30.454-172.251	1.00	0.00	H
ATOM	12963	3HD1	LEU	K	167	14.286	28.688-172.372	1.00	0.00	H
ATOM	12964	CD2	LEU	K	167	15.063	30.607-169.640	1.00	0.00	C
ATOM	12965	1HD2	LEU	K	167	16.134	30.605-169.836	1.00	0.00	H
ATOM	12966	2HD2	LEU	K	167	14.912	30.521-168.565	1.00	0.00	H
ATOM	12967	3HD2	LEU	K	167	14.627	31.541-169.992	1.00	0.00	H
ATOM	12968	N	ASN	K	168	10.248	28.616-167.580	1.00	0.00	N
ATOM	12969	H	ASN	K	168	10.857	28.248-166.861	1.00	0.00	H
ATOM	12970	CA	ASN	K	168	8.886	28.064-167.628	1.00	0.00	C
ATOM	12971	HA	ASN	K	168	8.341	28.502-168.466	1.00	0.00	H
ATOM	12972	C	ASN	K	168	7.999	28.296-166.386	1.00	0.00	C
ATOM	12973	O	ASN	K	168	6.787	28.409-166.529	1.00	0.00	O
ATOM	12974	CB	ASN	K	168	9.040	26.550-167.893	1.00	0.00	C
ATOM	12975	1HB	ASN	K	168	8.061	26.078-167.868	1.00	0.00	H
ATOM	12976	2HB	ASN	K	168	9.452	26.409-168.892	1.00	0.00	H
ATOM	12977	CG	ASN	K	168	9.934	25.817-166.898	1.00	0.00	C
ATOM	12978	OD1	ASN	K	168	10.374	26.327-165.883	1.00	0.00	O
ATOM	12979	ND2	ASN	K	168	10.305	24.601-167.187	1.00	0.00	N
ATOM	12980	1HD2	ASN	K	168	10.998	24.213-166.561	1.00	0.00	H
ATOM	12981	2HD2	ASN	K	168	10.147	24.249-168.123	1.00	0.00	H
ATOM	12982	N	GLU	K	169	8.552	28.337-165.174	1.00	0.00	N
ATOM	12983	H	GLU	K	169	9.548	28.176-165.114	1.00	0.00	H
ATOM	12984	CA	GLU	K	169	7.778	28.105-163.942	1.00	0.00	C
ATOM	12985	HA	GLU	K	169	6.989	27.390-164.179	1.00	0.00	H
ATOM	12986	C	GLU	K	169	7.044	29.330-163.360	1.00	0.00	C
ATOM	12987	O	GLU	K	169	6.691	29.319-162.182	1.00	0.00	O
ATOM	12988	CB	GLU	K	169	8.685	27.427-162.898	1.00	0.00	C
ATOM	12989	1HB	GLU	K	169	8.046	27.050-162.105	1.00	0.00	H
ATOM	12990	2HB	GLU	K	169	9.159	26.555-163.351	1.00	0.00	H
ATOM	12991	CG	GLU	K	169	9.774	28.326-162.284	1.00	0.00	C
ATOM	12992	1HG	GLU	K	169	10.601	28.425-162.991	1.00	0.00	H
ATOM	12993	2HG	GLU	K	169	9.375	29.322-162.090	1.00	0.00	H
ATOM	12994	CD	GLU	K	169	10.279	27.733-160.963	1.00	0.00	C
ATOM	12995	OE1	GLU	K	169	10.642	26.537-160.952	1.00	0.00	O
ATOM	12996	OE2	GLU	K	169	10.235	28.423-159.918	1.00	0.00	O
ATOM	12997	N	THR	K	170	6.843	30.395-164.142	1.00	0.00	N
ATOM	12998	H	THR	K	170	7.138	30.321-165.104	1.00	0.00	H
ATOM	12999	CA	THR	K	170	6.514	31.729-163.596	1.00	0.00	C
ATOM	13000	HA	THR	K	170	6.316	31.624-162.534	1.00	0.00	H
ATOM	13001	C	THR	K	170	5.246	32.368-164.175	1.00	0.00	C
ATOM	13002	O	THR	K	170	4.693	33.252-163.525	1.00	0.00	O
ATOM	13003	CB	THR	K	170	7.739	32.657-163.704	1.00	0.00	C
ATOM	13004	HB	THR	K	170	8.000	32.776-164.756	1.00	0.00	H
ATOM	13005	OG1	THR	K	170	8.827	32.058-163.038	1.00	0.00	O
ATOM	13006	HG1	THR	K	170	8.589	32.009-162.088	1.00	0.00	H
ATOM	13007	CG2	THR	K	170	7.584	34.044-163.080	1.00	0.00	C
ATOM	13008	1HG2	THR	K	170	6.890	34.642-163.670	1.00	0.00	H
ATOM	13009	2HG2	THR	K	170	8.550	34.549-163.066	1.00	0.00	H
ATOM	13010	3HG2	THR	K	170	7.210	33.959-162.060	1.00	0.00	H
ATOM	13011	N	GLU	K	171	4.722	31.898-165.315	1.00	0.00	N
ATOM	13012	H	GLU	K	171	5.182	31.142-165.801	1.00	0.00	H
ATOM	13013	CA	GLU	K	171	3.390	32.286-165.817	1.00	0.00	C
ATOM	13014	HA	GLU	K	171	2.749	32.460-164.956	1.00	0.00	H
ATOM	13015	C	GLU	K	171	2.768	31.159-166.662	1.00	0.00	C
ATOM	13016	O	GLU	K	171	3.398	30.646-167.592	1.00	0.00	O
ATOM	13017	CB	GLU	K	171	3.467	33.610-166.605	1.00	0.00	C
ATOM	13018	1HB	GLU	K	171	4.171	34.270-166.094	1.00	0.00	H
ATOM	13019	2HB	GLU	K	171	3.859	33.433-167.608	1.00	0.00	H
ATOM	13020	CG	GLU	K	171	2.126	34.366-166.678	1.00	0.00	C
ATOM	13021	1HG	GLU	K	171	1.641	34.342-165.700	1.00	0.00	H
ATOM	13022	2HG	GLU	K	171	2.344	35.414-166.899	1.00	0.00	H
ATOM	13023	CD	GLU	K	171	1.180	33.831-167.760	1.00	0.00	C
ATOM	13024	OE1	GLU	K	171	1.439	34.128-168.947	1.00	0.00	O
ATOM	13025	OE2	GLU	K	171	0.208	33.120-167.412	1.00	0.00	O
ATOM	13026	N	LEU	K	172	1.543	30.761-166.314	1.00	0.00	N
ATOM	13027	H	LEU	K	172	1.065	31.298-165.594	1.00	0.00	H
ATOM	13028	CA	LEU	K	172	0.731	29.778-167.033	1.00	0.00	C
ATOM	13029	HA	LEU	K	172	0.979	29.830-168.090	1.00	0.00	H
ATOM	13030	C	LEU	K	172	-0.758	30.117-166.848	1.00	0.00	C
ATOM	13031	O	LEU	K	172	-1.204	30.241-165.705	1.00	0.00	O
ATOM	13032	CB	LEU	K	172	1.046	28.364-166.483	1.00	0.00	C
ATOM	13033	1HB	LEU	K	172	2.036	28.365-166.024	1.00	0.00	H
ATOM	13034	2HB	LEU	K	172	0.338	28.127-165.687	1.00	0.00	H
ATOM	13035	CG	LEU	K	172	1.016	27.219-167.513	1.00	0.00	C
ATOM	13036	HG	LEU	K	172	1.015	26.280-166.967	1.00	0.00	H

ATOM	13037	CD1	LEU	K	172	-0.213	27.217-168.417	1.00	0.00	C
ATOM	13038	1HD1	LEU	K	172	-0.202	28.074-169.087	1.00	0.00	H
ATOM	13039	2HD1	LEU	K	172	-1.116	27.246-167.807	1.00	0.00	H
ATOM	13040	3HD1	LEU	K	172	-0.234	26.312-169.019	1.00	0.00	H
ATOM	13041	CD2	LEU	K	172	2.279	27.237-168.368	1.00	0.00	C
ATOM	13042	1HD2	LEU	K	172	2.245	26.440-169.110	1.00	0.00	H
ATOM	13043	2HD2	LEU	K	172	3.150	27.096-167.730	1.00	0.00	H
ATOM	13044	3HD2	LEU	K	172	2.370	28.202-168.859	1.00	0.00	H
ATOM	13045	N	HIS	K	173	-1.537	30.201-167.936	1.00	0.00	N
ATOM	13046	H	HIS	K	173	-1.104	30.140-168.850	1.00	0.00	H
ATOM	13047	CA	HIS	K	173	-2.999	30.399-167.904	1.00	0.00	C
ATOM	13048	HA	HIS	K	173	-3.328	30.533-168.936	1.00	0.00	H
ATOM	13049	C	HIS	K	173	-3.434	31.686-167.149	1.00	0.00	C
ATOM	13050	O	HIS	K	173	-4.549	31.776-166.639	1.00	0.00	O
ATOM	13051	CB	HIS	K	173	-3.635	29.079-167.399	1.00	0.00	C
ATOM	13052	1HB	HIS	K	173	-3.267	28.268-168.028	1.00	0.00	H
ATOM	13053	2HB	HIS	K	173	-3.298	28.885-166.381	1.00	0.00	H
ATOM	13054	CG	HIS	K	173	-5.141	28.984-167.410	1.00	0.00	C
ATOM	13055	ND1	HIS	K	173	-5.964	29.030-168.508	1.00	0.00	N
ATOM	13056	HD1	HIS	K	173	-5.650	29.025-169.487	1.00	0.00	H
ATOM	13057	CD2	HIS	K	173	-5.941	28.715-166.334	1.00	0.00	C
ATOM	13058	HD2	HIS	K	173	-5.602	28.571-165.320	1.00	0.00	H
ATOM	13059	CE1	HIS	K	173	-7.226	28.815-168.107	1.00	0.00	C
ATOM	13060	HE1	HIS	K	173	-8.077	28.718-168.772	1.00	0.00	H
ATOM	13061	NE2	HIS	K	173	-7.271	28.663-166.770	1.00	0.00	N
ATOM	13062	N	GLY	K	174	-2.559	32.692-167.007	1.00	0.00	N
ATOM	13063	H	GLY	K	174	-1.623	32.603-167.405	1.00	0.00	H
ATOM	13064	CA	GLY	K	174	-2.825	33.904-166.217	1.00	0.00	C
ATOM	13065	1HA	GLY	K	174	-2.146	34.685-166.557	1.00	0.00	H
ATOM	13066	2HA	GLY	K	174	-3.849	34.237-166.388	1.00	0.00	H
ATOM	13067	C	GLY	K	174	-2.611	33.726-164.706	1.00	0.00	C
ATOM	13068	O	GLY	K	174	-3.098	34.526-163.908	1.00	0.00	O
ATOM	13069	N	ARG	K	175	-1.909	32.662-164.303	1.00	0.00	N
ATOM	13070	H	ARG	K	175	-1.542	32.070-165.045	1.00	0.00	H
ATOM	13071	CA	ARG	K	175	-1.530	32.288-162.928	1.00	0.00	C
ATOM	13072	HA	ARG	K	175	-1.612	33.159-162.277	1.00	0.00	H
ATOM	13073	C	ARG	K	175	-0.052	31.847-162.938	1.00	0.00	C
ATOM	13074	O	ARG	K	175	0.668	32.109-163.897	1.00	0.00	O
ATOM	13075	CB	ARG	K	175	-2.464	31.166-162.407	1.00	0.00	C
ATOM	13076	1HB	ARG	K	175	-2.378	30.295-163.060	1.00	0.00	H
ATOM	13077	2HB	ARG	K	175	-2.109	30.861-161.422	1.00	0.00	H
ATOM	13078	CG	ARG	K	175	-3.958	31.505-162.220	1.00	0.00	C
ATOM	13079	1HG	ARG	K	175	-4.377	30.730-161.577	1.00	0.00	H
ATOM	13080	2HG	ARG	K	175	-4.059	32.458-161.699	1.00	0.00	H
ATOM	13081	CD	ARG	K	175	-4.779	31.544-163.520	1.00	0.00	C
ATOM	13082	1HD	ARG	K	175	-4.878	32.577-163.856	1.00	0.00	H
ATOM	13083	2HD	ARG	K	175	-4.250	30.973-164.284	1.00	0.00	H
ATOM	13084	NE	ARG	K	175	-6.116	30.950-163.346	1.00	0.00	N
ATOM	13085	HE	ARG	K	175	-6.278	30.378-162.517	1.00	0.00	H
ATOM	13086	CZ	ARG	K	175	-7.045	30.818-164.273	1.00	0.00	C
ATOM	13087	NH1	ARG	K	175	-6.993	31.414-165.428	1.00	0.00	N
ATOM	13088	1HH1	ARG	K	175	-6.127	31.863-165.709	1.00	0.00	H
ATOM	13089	2HH1	ARG	K	175	-7.602	31.094-166.158	1.00	0.00	H
ATOM	13090	NH2	ARG	K	175	-8.026	29.990-164.085	1.00	0.00	N
ATOM	13091	1HH2	ARG	K	175	-7.960	29.350-163.292	1.00	0.00	H
ATOM	13092	2HH2	ARG	K	175	-8.510	29.664-164.902	1.00	0.00	H
ATOM	13093	N	GLN	K	176	0.424	31.141-161.909	1.00	0.00	N
ATOM	13094	H	GLN	K	176	-0.204	30.923-161.151	1.00	0.00	H
ATOM	13095	CA	GLN	K	176	1.615	30.291-162.041	1.00	0.00	C
ATOM	13096	HA	GLN	K	176	1.723	30.039-163.098	1.00	0.00	H
ATOM	13097	C	GLN	K	176	1.436	28.946-161.325	1.00	0.00	C
ATOM	13098	O	GLN	K	176	0.480	28.736-160.582	1.00	0.00	O
ATOM	13099	CB	GLN	K	176	2.917	31.022-161.642	1.00	0.00	C
ATOM	13100	1HB	GLN	K	176	3.756	30.402-161.961	1.00	0.00	H
ATOM	13101	2HB	GLN	K	176	2.970	31.952-162.205	1.00	0.00	H
ATOM	13102	CG	GLN	K	176	3.101	31.351-160.149	1.00	0.00	C
ATOM	13103	1HG	GLN	K	176	2.542	32.256-159.911	1.00	0.00	H
ATOM	13104	2HG	GLN	K	176	2.709	30.535-159.542	1.00	0.00	H
ATOM	13105	CD	GLN	K	176	4.573	31.550-159.771	1.00	0.00	C
ATOM	13106	OE1	GLN	K	176	5.108	30.860-158.914	1.00	0.00	O
ATOM	13107	NE2	GLN	K	176	5.292	32.459-160.395	1.00	0.00	N
ATOM	13108	1HE2	GLN	K	176	6.287	32.507-160.169	1.00	0.00	H
ATOM	13109	2HE2	GLN	K	176	4.898	33.005-161.146	1.00	0.00	H
ATOM	13110	N	LEU	K	177	2.377	28.043-161.582	1.00	0.00	N
ATOM	13111	H	LEU	K	177	3.176	28.353-162.119	1.00	0.00	H
ATOM	13112	CA	LEU	K	177	2.462	26.663-161.101	1.00	0.00	C
ATOM	13113	HA	LEU	K	177	2.022	26.590-160.105	1.00	0.00	H

ATOM	13114	C	LEU	K	177	3.948	26.282-160.990	1.00	0.00	C
ATOM	13115	O	LEU	K	177	4.799	27.127-161.273	1.00	0.00	O
ATOM	13116	CB	LEU	K	177	1.659	25.749-162.052	1.00	0.00	C
ATOM	13117	1HB	LEU	K	177	1.800	24.714-161.740	1.00	0.00	H
ATOM	13118	2HB	LEU	K	177	0.604	25.981-161.898	1.00	0.00	H
ATOM	13119	CG	LEU	K	177	1.938	25.853-163.567	1.00	0.00	C
ATOM	13120	HG	LEU	K	177	1.719	26.862-163.914	1.00	0.00	H
ATOM	13121	CD1	LEU	K	177	3.375	25.508-163.966	1.00	0.00	C
ATOM	13122	1HD1	LEU	K	177	3.685	24.584-163.481	1.00	0.00	H
ATOM	13123	2HD1	LEU	K	177	4.042	26.318-163.675	1.00	0.00	H
ATOM	13124	3HD1	LEU	K	177	3.446	25.399-165.048	1.00	0.00	H
ATOM	13125	CD2	LEU	K	177	0.988	24.894-164.284	1.00	0.00	C
ATOM	13126	1HD2	LEU	K	177	1.072	23.900-163.856	1.00	0.00	H
ATOM	13127	2HD2	LEU	K	177	1.222	24.839-165.343	1.00	0.00	H
ATOM	13128	3HD2	LEU	K	177	-0.036	25.248-164.167	1.00	0.00	H
ATOM	13129	N	LYS	K	178	4.305	25.042-160.628	1.00	0.00	N
ATOM	13130	H	LYS	K	178	3.580	24.348-160.458	1.00	0.00	H
ATOM	13131	CA	LYS	K	178	5.724	24.626-160.580	1.00	0.00	C
ATOM	13132	HA	LYS	K	178	6.306	25.348-161.148	1.00	0.00	H
ATOM	13133	C	LYS	K	178	5.984	23.318-161.335	1.00	0.00	C
ATOM	13134	O	LYS	K	178	5.074	22.583-161.710	1.00	0.00	O
ATOM	13135	CB	LYS	K	178	6.254	24.655-159.123	1.00	0.00	C
ATOM	13136	1HB	LYS	K	178	5.634	23.994-158.514	1.00	0.00	H
ATOM	13137	2HB	LYS	K	178	7.273	24.266-159.101	1.00	0.00	H
ATOM	13138	CG	LYS	K	178	6.267	26.059-158.463	1.00	0.00	C
ATOM	13139	1HG	LYS	K	178	5.257	26.469-158.479	1.00	0.00	H
ATOM	13140	2HG	LYS	K	178	6.556	25.950-157.418	1.00	0.00	H
ATOM	13141	CD	LYS	K	178	7.231	27.062-159.129	1.00	0.00	C
ATOM	13142	1HD	LYS	K	178	8.262	26.764-158.935	1.00	0.00	H
ATOM	13143	2HD	LYS	K	178	7.069	27.046-160.199	1.00	0.00	H
ATOM	13144	CE	LYS	K	178	7.016	28.512-158.671	1.00	0.00	C
ATOM	13145	1HE	LYS	K	178	5.943	28.727-158.682	1.00	0.00	H
ATOM	13146	2HE	LYS	K	178	7.384	28.633-157.651	1.00	0.00	H
ATOM	13147	NZ	LYS	K	178	7.697	29.464-159.583	1.00	0.00	N
ATOM	13148	1HZ	LYS	K	178	7.313	29.394-160.522	1.00	0.00	H
ATOM	13149	2HZ	LYS	K	178	8.699	29.283-159.647	1.00	0.00	H
ATOM	13150	3HZ	LYS	K	178	7.555	30.444-159.345	1.00	0.00	H
ATOM	13151	N	VAL	K	179	7.262	23.082-161.636	1.00	0.00	N
ATOM	13152	H	VAL	K	179	7.944	23.712-161.245	1.00	0.00	H
ATOM	13153	CA	VAL	K	179	7.734	22.147-162.678	1.00	0.00	C
ATOM	13154	HA	VAL	K	179	6.918	21.487-162.971	1.00	0.00	H
ATOM	13155	C	VAL	K	179	8.870	21.280-162.116	1.00	0.00	C
ATOM	13156	O	VAL	K	179	9.519	21.665-161.142	1.00	0.00	O
ATOM	13157	CB	VAL	K	179	8.186	22.946-163.930	1.00	0.00	C
ATOM	13158	HB	VAL	K	179	9.049	23.557-163.659	1.00	0.00	H
ATOM	13159	CG1	VAL	K	179	8.588	22.057-165.116	1.00	0.00	C
ATOM	13160	1HG1	VAL	K	179	7.768	21.393-165.385	1.00	0.00	H
ATOM	13161	2HG1	VAL	K	179	9.477	21.475-164.882	1.00	0.00	H
ATOM	13162	3HG1	VAL	K	179	8.822	22.679-165.978	1.00	0.00	H
ATOM	13163	CG2	VAL	K	179	7.083	23.887-164.446	1.00	0.00	C
ATOM	13164	1HG2	VAL	K	179	6.863	24.662-163.712	1.00	0.00	H
ATOM	13165	2HG2	VAL	K	179	6.175	23.322-164.656	1.00	0.00	H
ATOM	13166	3HG2	VAL	K	179	7.411	24.388-165.357	1.00	0.00	H
ATOM	13167	N	SER	K	180	9.130	20.102-162.684	1.00	0.00	N
ATOM	13168	H	SER	K	180	8.526	19.805-163.450	1.00	0.00	H
ATOM	13169	CA	SER	K	180	10.230	19.196-162.302	1.00	0.00	C
ATOM	13170	HA	SER	K	180	11.099	19.780-161.996	1.00	0.00	H
ATOM	13171	C	SER	K	180	10.664	18.297-163.461	1.00	0.00	C
ATOM	13172	O	SER	K	180	9.975	18.206-164.470	1.00	0.00	O
ATOM	13173	CB	SER	K	180	9.785	18.317-161.127	1.00	0.00	C
ATOM	13174	1HB	SER	K	180	8.782	17.926-161.311	1.00	0.00	H
ATOM	13175	2HB	SER	K	180	10.472	17.480-160.994	1.00	0.00	H
ATOM	13176	OG	SER	K	180	9.800	19.100-159.956	1.00	0.00	O
ATOM	13177	HG	SER	K	180	9.414	19.963-160.169	1.00	0.00	H
ATOM	13178	N	ALA	K	181	11.798	17.603-163.332	1.00	0.00	N
ATOM	13179	H	ALA	K	181	12.322	17.687-162.477	1.00	0.00	H
ATOM	13180	CA	ALA	K	181	12.161	16.522-164.255	1.00	0.00	C
ATOM	13181	HA	ALA	K	181	12.178	16.916-165.270	1.00	0.00	H
ATOM	13182	C	ALA	K	181	11.140	15.362-164.221	1.00	0.00	C
ATOM	13183	O	ALA	K	181	10.389	15.218-163.255	1.00	0.00	O
ATOM	13184	CB	ALA	K	181	13.574	16.041-163.903	1.00	0.00	C
ATOM	13185	1HB	ALA	K	181	14.276	16.874-163.959	1.00	0.00	H
ATOM	13186	2HB	ALA	K	181	13.886	15.270-164.610	1.00	0.00	H
ATOM	13187	3HB	ALA	K	181	13.585	15.623-162.895	1.00	0.00	H
ATOM	13188	N	LYS	K	182	11.158	14.508-165.250	1.00	0.00	N
ATOM	13189	H	LYS	K	182	11.800	14.677-166.018	1.00	0.00	H
ATOM	13190	CA	LYS	K	182	10.436	13.227-165.308	1.00	0.00	C

ATOM	13191	HA	LYS	K	182	10.303	12.851-164.293	1.00	0.00	H
ATOM	13192	C	LYS	K	182	11.282	12.192-166.052	1.00	0.00	C
ATOM	13193	O	LYS	K	182	12.317	12.559-166.651	1.00	0.00	O
ATOM	13194	OXT	LYS	K	182	10.898	11.005-166.115	1.00	0.00	O
ATOM	13195	CB	LYS	K	182	9.048	13.451-165.949	1.00	0.00	C
ATOM	13196	1HB	LYS	K	182	8.661	14.421-165.636	1.00	0.00	H
ATOM	13197	2HB	LYS	K	182	9.149	13.458-167.036	1.00	0.00	H
ATOM	13198	CG	LYS	K	182	8.029	12.382-165.517	1.00	0.00	C
ATOM	13199	1HG	LYS	K	182	8.415	11.391-165.749	1.00	0.00	H
ATOM	13200	2HG	LYS	K	182	7.885	12.447-164.437	1.00	0.00	H
ATOM	13201	CD	LYS	K	182	6.673	12.555-166.214	1.00	0.00	C
ATOM	13202	1HD	LYS	K	182	6.230	13.510-165.927	1.00	0.00	H
ATOM	13203	2HD	LYS	K	182	6.819	12.538-167.296	1.00	0.00	H
ATOM	13204	CE	LYS	K	182	5.741	11.409-165.804	1.00	0.00	C
ATOM	13205	1HE	LYS	K	182	6.246	10.462-165.994	1.00	0.00	H
ATOM	13206	2HE	LYS	K	182	5.544	11.476-164.729	1.00	0.00	H
ATOM	13207	NZ	LYS	K	182	4.457	11.455-166.536	1.00	0.00	N
ATOM	13208	1HZ	LYS	K	182	4.537	11.603-167.530	1.00	0.00	H
ATOM	13209	2HZ	LYS	K	182	3.859	12.191-166.143	1.00	0.00	H
ATOM	13210	3HZ	LYS	K	182	3.878	10.633-166.377	1.00	0.00	H
TER	13211		LYS	K	182					
ATOM	13212	N	ASP	L	106	5.136	4.456-189.949	1.00	0.00	N
ATOM	13213	1H	ASP	L	106	4.705	3.604-189.617	1.00	0.00	H
ATOM	13214	2H	ASP	L	106	4.423	5.178-190.001	1.00	0.00	H
ATOM	13215	3H	ASP	L	106	5.808	4.794-189.265	1.00	0.00	H
ATOM	13216	CA	ASP	L	106	5.781	4.249-191.267	1.00	0.00	C
ATOM	13217	HA	ASP	L	106	6.600	3.546-191.131	1.00	0.00	H
ATOM	13218	C	ASP	L	106	6.414	5.510-191.883	1.00	0.00	C
ATOM	13219	O	ASP	L	106	7.330	5.326-192.682	1.00	0.00	O
ATOM	13220	CB	ASP	L	106	4.795	3.606-192.252	1.00	0.00	C
ATOM	13221	1HB	ASP	L	106	5.261	3.500-193.233	1.00	0.00	H
ATOM	13222	2HB	ASP	L	106	4.521	2.613-191.892	1.00	0.00	H
ATOM	13223	CG	ASP	L	106	3.558	4.483-192.343	1.00	0.00	C
ATOM	13224	OD1	ASP	L	106	2.702	4.311-191.449	1.00	0.00	O
ATOM	13225	OD2	ASP	L	106	3.605	5.478-193.083	1.00	0.00	O
ATOM	13226	N	SER	L	107	5.945	6.733-191.569	1.00	0.00	N
ATOM	13227	H	SER	L	107	5.296	6.780-190.782	1.00	0.00	H
ATOM	13228	CA	SER	L	107	6.322	8.090-192.062	1.00	0.00	C
ATOM	13229	HA	SER	L	107	6.572	8.662-191.168	1.00	0.00	H
ATOM	13230	C	SER	L	107	5.165	8.867-192.719	1.00	0.00	C
ATOM	13231	O	SER	L	107	5.320	10.051-193.039	1.00	0.00	O
ATOM	13232	CB	SER	L	107	7.560	8.161-192.971	1.00	0.00	C
ATOM	13233	1HB	SER	L	107	7.801	9.207-193.167	1.00	0.00	H
ATOM	13234	2HB	SER	L	107	8.410	7.706-192.461	1.00	0.00	H
ATOM	13235	OG	SER	L	107	7.341	7.505-194.202	1.00	0.00	O
ATOM	13236	HG	SER	L	107	7.255	6.564-193.960	1.00	0.00	H
ATOM	13237	N	ARG	L	108	4.000	8.239-192.920	1.00	0.00	N
ATOM	13238	H	ARG	L	108	3.967	7.232-192.754	1.00	0.00	H
ATOM	13239	CA	ARG	L	108	2.773	8.837-193.484	1.00	0.00	C
ATOM	13240	HA	ARG	L	108	2.952	9.873-193.739	1.00	0.00	H
ATOM	13241	C	ARG	L	108	1.627	8.896-192.474	1.00	0.00	C
ATOM	13242	O	ARG	L	108	0.467	9.034-192.855	1.00	0.00	O
ATOM	13243	CB	ARG	L	108	2.350	8.071-194.755	1.00	0.00	C
ATOM	13244	1HB	ARG	L	108	1.998	7.077-194.474	1.00	0.00	H
ATOM	13245	2HB	ARG	L	108	1.502	8.589-195.207	1.00	0.00	H
ATOM	13246	CG	ARG	L	108	3.441	7.911-195.830	1.00	0.00	C
ATOM	13247	1HG	ARG	L	108	4.173	7.177-195.489	1.00	0.00	H
ATOM	13248	2HG	ARG	L	108	2.972	7.514-196.731	1.00	0.00	H
ATOM	13249	CD	ARG	L	108	4.185	9.207-196.192	1.00	0.00	C
ATOM	13250	1HD	ARG	L	108	4.891	9.444-195.400	1.00	0.00	H
ATOM	13251	2HD	ARG	L	108	4.762	9.029-197.100	1.00	0.00	H
ATOM	13252	NE	ARG	L	108	3.259	10.329-196.424	1.00	0.00	N
ATOM	13253	HE	ARG	L	108	2.560	10.201-197.152	1.00	0.00	H
ATOM	13254	CZ	ARG	L	108	3.194	11.489-195.802	1.00	0.00	C
ATOM	13255	NH1	ARG	L	108	4.043	11.871-194.887	1.00	0.00	N
ATOM	13256	1HH1	ARG	L	108	4.669	11.187-194.476	1.00	0.00	H
ATOM	13257	2HH1	ARG	L	108	3.871	12.738-194.415	1.00	0.00	H
ATOM	13258	NH2	ARG	L	108	2.239	12.312-196.083	1.00	0.00	N
ATOM	13259	1HH2	ARG	L	108	1.458	12.032-196.679	1.00	0.00	H
ATOM	13260	2HH2	ARG	L	108	2.226	13.268-195.755	1.00	0.00	H
ATOM	13261	N	SER	L	109	1.949	8.759-191.190	1.00	0.00	N
ATOM	13262	H	SER	L	109	2.919	8.669-190.937	1.00	0.00	H
ATOM	13263	CA	SER	L	109	0.980	8.365-190.176	1.00	0.00	C
ATOM	13264	HA	SER	L	109	-0.006	8.739-190.451	1.00	0.00	H
ATOM	13265	C	SER	L	109	1.270	8.885-188.771	1.00	0.00	C
ATOM	13266	O	SER	L	109	2.326	9.454-188.479	1.00	0.00	O
ATOM	13267	CB	SER	L	109	0.925	6.839-190.173	1.00	0.00	C

ATOM	13268	1HB	SER	L	109	0.190	6.496-189.454	1.00	0.00	H
ATOM	13269	2HB	SER	L	109	0.631	6.510-191.167	1.00	0.00	H
ATOM	13270	OG	SER	L	109	2.165	6.241-189.876	1.00	0.00	O
ATOM	13271	HG	SER	L	109	2.294	5.534-190.554	1.00	0.00	H
ATOM	13272	N	ILE	L	110	0.295	8.652-187.896	1.00	0.00	N
ATOM	13273	H	ILE	L	110	-0.539	8.184-188.241	1.00	0.00	H
ATOM	13274	CA	ILE	L	110	0.308	8.986-186.473	1.00	0.00	C
ATOM	13275	HA	ILE	L	110	1.327	9.219-186.173	1.00	0.00	H
ATOM	13276	C	ILE	L	110	-0.135	7.780-185.639	1.00	0.00	C
ATOM	13277	O	ILE	L	110	-0.765	6.854-186.154	1.00	0.00	O
ATOM	13278	CB	ILE	L	110	-0.584	10.220-186.182	1.00	0.00	C
ATOM	13279	HB	ILE	L	110	-0.648	10.334-185.100	1.00	0.00	H
ATOM	13280	CG1	ILE	L	110	-2.022	10.052-186.725	1.00	0.00	C
ATOM	13281	1HG1	ILE	L	110	-2.005	10.075-187.815	1.00	0.00	H
ATOM	13282	2HG1	ILE	L	110	-2.404	9.081-186.412	1.00	0.00	H
ATOM	13283	CG2	ILE	L	110	0.071	11.497-186.732	1.00	0.00	C
ATOM	13284	1HG2	ILE	L	110	-0.481	12.369-186.387	1.00	0.00	H
ATOM	13285	2HG2	ILE	L	110	0.078	11.485-187.822	1.00	0.00	H
ATOM	13286	3HG2	ILE	L	110	1.091	11.584-186.364	1.00	0.00	H
ATOM	13287	CD1	ILE	L	110	-3.016	11.115-186.235	1.00	0.00	C
ATOM	13288	1HD1	ILE	L	110	-3.093	11.079-185.149	1.00	0.00	H
ATOM	13289	2HD1	ILE	L	110	-4.001	10.915-186.655	1.00	0.00	H
ATOM	13290	3HD1	ILE	L	110	-2.709	12.111-186.553	1.00	0.00	H
ATOM	13291	N	TYR	L	111	0.162	7.816-184.342	1.00	0.00	N
ATOM	13292	H	TYR	L	111	0.660	8.633-184.003	1.00	0.00	H
ATOM	13293	CA	TYR	L	111	-0.385	6.932-183.320	1.00	0.00	C
ATOM	13294	HA	TYR	L	111	-1.197	6.368-183.767	1.00	0.00	H
ATOM	13295	C	TYR	L	111	-0.988	7.741-182.168	1.00	0.00	C
ATOM	13296	O	TYR	L	111	-0.676	8.920-181.989	1.00	0.00	O
ATOM	13297	CB	TYR	L	111	0.662	5.925-182.832	1.00	0.00	C
ATOM	13298	1HB	TYR	L	111	0.130	5.128-182.314	1.00	0.00	H
ATOM	13299	2HB	TYR	L	111	1.143	5.478-183.699	1.00	0.00	H
ATOM	13300	CG	TYR	L	111	1.720	6.460-181.883	1.00	0.00	C
ATOM	13301	CD1	TYR	L	111	2.942	6.954-182.375	1.00	0.00	C
ATOM	13302	HD1	TYR	L	111	3.120	7.006-183.438	1.00	0.00	H
ATOM	13303	CD2	TYR	L	111	1.485	6.447-180.494	1.00	0.00	C
ATOM	13304	HD2	TYR	L	111	0.544	6.070-180.112	1.00	0.00	H
ATOM	13305	CE1	TYR	L	111	3.930	7.417-181.486	1.00	0.00	C
ATOM	13306	HE1	TYR	L	111	4.864	7.805-181.866	1.00	0.00	H
ATOM	13307	CE2	TYR	L	111	2.456	6.941-179.602	1.00	0.00	C
ATOM	13308	HE2	TYR	L	111	2.253	6.958-178.542	1.00	0.00	H
ATOM	13309	CZ	TYR	L	111	3.685	7.422-180.098	1.00	0.00	C
ATOM	13310	OH	TYR	L	111	4.624	7.911-179.246	1.00	0.00	O
ATOM	13311	HH	TYR	L	111	4.332	7.865-178.334	1.00	0.00	H
ATOM	13312	N	VAL	L	112	-1.883	7.105-181.412	1.00	0.00	N
ATOM	13313	H	VAL	L	112	-2.067	6.129-181.623	1.00	0.00	H
ATOM	13314	CA	VAL	L	112	-2.860	7.796-180.562	1.00	0.00	C
ATOM	13315	HA	VAL	L	112	-2.495	8.795-180.325	1.00	0.00	H
ATOM	13316	C	VAL	L	112	-3.072	7.031-179.253	1.00	0.00	C
ATOM	13317	O	VAL	L	112	-3.328	5.825-179.278	1.00	0.00	O
ATOM	13318	CB	VAL	L	112	-4.199	7.936-181.317	1.00	0.00	C
ATOM	13319	HB	VAL	L	112	-4.667	6.954-181.410	1.00	0.00	H
ATOM	13320	CG1	VAL	L	112	-5.139	8.852-180.541	1.00	0.00	C
ATOM	13321	1HG1	VAL	L	112	-4.683	9.832-180.406	1.00	0.00	H
ATOM	13322	2HG1	VAL	L	112	-5.357	8.427-179.563	1.00	0.00	H
ATOM	13323	3HG1	VAL	L	112	-6.073	8.966-181.090	1.00	0.00	H
ATOM	13324	CG2	VAL	L	112	-4.050	8.521-182.731	1.00	0.00	C
ATOM	13325	1HG2	VAL	L	112	-3.500	9.462-182.693	1.00	0.00	H
ATOM	13326	2HG2	VAL	L	112	-5.032	8.705-183.162	1.00	0.00	H
ATOM	13327	3HG2	VAL	L	112	-3.530	7.819-183.381	1.00	0.00	H
ATOM	13328	N	GLY	L	113	-2.983	7.740-178.122	1.00	0.00	N
ATOM	13329	H	GLY	L	113	-2.877	8.748-178.214	1.00	0.00	H
ATOM	13330	CA	GLY	L	113	-3.097	7.215-176.754	1.00	0.00	C
ATOM	13331	1HA	GLY	L	113	-3.485	6.198-176.776	1.00	0.00	H
ATOM	13332	2HA	GLY	L	113	-2.111	7.199-176.290	1.00	0.00	H
ATOM	13333	C	GLY	L	113	-4.036	8.052-175.877	1.00	0.00	C
ATOM	13334	O	GLY	L	113	-4.576	9.052-176.337	1.00	0.00	O
ATOM	13335	N	ASN	L	114	-4.277	7.615-174.630	1.00	0.00	N
ATOM	13336	H	ASN	L	114	-3.708	6.864-174.267	1.00	0.00	H
ATOM	13337	CA	ASN	L	114	-5.454	8.026-173.831	1.00	0.00	C
ATOM	13338	HA	ASN	L	114	-5.455	7.418-172.925	1.00	0.00	H
ATOM	13339	C	ASN	L	114	-6.782	7.677-174.572	1.00	0.00	C
ATOM	13340	O	ASN	L	114	-7.786	8.368-174.459	1.00	0.00	O
ATOM	13341	CB	ASN	L	114	-5.258	9.501-173.377	1.00	0.00	C
ATOM	13342	1HB	ASN	L	114	-4.228	9.618-173.038	1.00	0.00	H
ATOM	13343	2HB	ASN	L	114	-5.384	10.157-174.228	1.00	0.00	H
ATOM	13344	CG	ASN	L	114	-6.139	10.036-172.248	1.00	0.00	C

ATOM	13345	OD1	ASN	L	114	-5.661	10.616-171.291	1.00	0.00	O
ATOM	13346	ND2	ASN	L	114	-7.442	9.946-172.311	1.00	0.00	N
ATOM	13347	1HD2	ASN	L	114	-7.972	10.380-171.581	1.00	0.00	H
ATOM	13348	2HD2	ASN	L	114	-7.883	9.608-173.166	1.00	0.00	H
ATOM	13349	N	VAL	L	115	-6.805	6.595-175.363	1.00	0.00	N
ATOM	13350	H	VAL	L	115	-5.974	6.035-175.441	1.00	0.00	H
ATOM	13351	CA	VAL	L	115	-8.020	6.143-176.072	1.00	0.00	C
ATOM	13352	HA	VAL	L	115	-8.525	7.024-176.470	1.00	0.00	H
ATOM	13353	C	VAL	L	115	-8.984	5.435-175.108	1.00	0.00	C
ATOM	13354	O	VAL	L	115	-8.587	4.556-174.338	1.00	0.00	O
ATOM	13355	CB	VAL	L	115	-7.679	5.226-177.265	1.00	0.00	C
ATOM	13356	HB	VAL	L	115	-7.218	4.310-176.892	1.00	0.00	H
ATOM	13357	CG1	VAL	L	115	-8.940	4.869-178.067	1.00	0.00	C
ATOM	13358	1HG1	VAL	L	115	-9.610	4.254-177.466	1.00	0.00	H
ATOM	13359	2HG1	VAL	L	115	-8.668	4.295-178.953	1.00	0.00	H
ATOM	13360	3HG1	VAL	L	115	-9.458	5.775-178.381	1.00	0.00	H
ATOM	13361	CG2	VAL	L	115	-6.700	5.910-178.231	1.00	0.00	C
ATOM	13362	1HG2	VAL	L	115	-6.503	5.257-179.083	1.00	0.00	H
ATOM	13363	2HG2	VAL	L	115	-5.752	6.112-177.739	1.00	0.00	H
ATOM	13364	3HG2	VAL	L	115	-7.126	6.847-178.591	1.00	0.00	H
ATOM	13365	N	ASP	L	116	-10.263	5.813-175.162	1.00	0.00	N
ATOM	13366	H	ASP	L	116	-10.508	6.562-175.791	1.00	0.00	H
ATOM	13367	CA	ASP	L	116	-11.340	5.223-174.361	1.00	0.00	C
ATOM	13368	HA	ASP	L	116	-11.029	5.245-173.315	1.00	0.00	H
ATOM	13369	C	ASP	L	116	-11.652	3.757-174.740	1.00	0.00	C
ATOM	13370	O	ASP	L	116	-11.682	3.379-175.911	1.00	0.00	O
ATOM	13371	CB	ASP	L	116	-12.588	6.101-174.497	1.00	0.00	C
ATOM	13372	1HB	ASP	L	116	-12.335	7.128-174.226	1.00	0.00	H
ATOM	13373	2HB	ASP	L	116	-12.923	6.096-175.536	1.00	0.00	H
ATOM	13374	CG	ASP	L	116	-13.721	5.610-173.600	1.00	0.00	C
ATOM	13375	OD1	ASP	L	116	-14.025	6.256-172.577	1.00	0.00	O
ATOM	13376	OD2	ASP	L	116	-14.378	4.608-173.948	1.00	0.00	O
ATOM	13377	N	TYR	L	117	-11.942	2.935-173.726	1.00	0.00	N
ATOM	13378	H	TYR	L	117	-12.057	3.356-172.818	1.00	0.00	H
ATOM	13379	CA	TYR	L	117	-12.188	1.491-173.832	1.00	0.00	C
ATOM	13380	HA	TYR	L	117	-11.372	1.070-174.423	1.00	0.00	H
ATOM	13381	C	TYR	L	117	-13.484	1.061-174.557	1.00	0.00	C
ATOM	13382	O	TYR	L	117	-13.778	-0.138-174.591	1.00	0.00	O
ATOM	13383	CB	TYR	L	117	-12.114	0.893-172.416	1.00	0.00	C
ATOM	13384	1HB	TYR	L	117	-12.208	-0.191-172.485	1.00	0.00	H
ATOM	13385	2HB	TYR	L	117	-11.124	1.103-172.012	1.00	0.00	H
ATOM	13386	CG	TYR	L	117	-13.157	1.404-171.435	1.00	0.00	C
ATOM	13387	CD1	TYR	L	117	-12.814	2.389-170.488	1.00	0.00	C
ATOM	13388	HD1	TYR	L	117	-11.813	2.798-170.460	1.00	0.00	H
ATOM	13389	CD2	TYR	L	117	-14.471	0.896-171.474	1.00	0.00	C
ATOM	13390	HD2	TYR	L	117	-14.737	0.149-172.210	1.00	0.00	H
ATOM	13391	CE1	TYR	L	117	-13.784	2.870-169.587	1.00	0.00	C
ATOM	13392	HE1	TYR	L	117	-13.538	3.647-168.878	1.00	0.00	H
ATOM	13393	CE2	TYR	L	117	-15.448	1.385-170.586	1.00	0.00	C
ATOM	13394	HE2	TYR	L	117	-16.458	1.015-170.641	1.00	0.00	H
ATOM	13395	CZ	TYR	L	117	-15.104	2.377-169.642	1.00	0.00	C
ATOM	13396	OH	TYR	L	117	-16.044	2.848-168.781	1.00	0.00	O
ATOM	13397	HH	TYR	L	117	-16.917	2.540-169.014	1.00	0.00	H
ATOM	13398	N	ALA	L	118	-14.270	1.991-175.106	1.00	0.00	N
ATOM	13399	H	ALA	L	118	-14.053	2.968-174.913	1.00	0.00	H
ATOM	13400	CA	ALA	L	118	-15.485	1.718-175.883	1.00	0.00	C
ATOM	13401	HA	ALA	L	118	-15.563	0.644-176.052	1.00	0.00	H
ATOM	13402	C	ALA	L	118	-15.486	2.358-177.292	1.00	0.00	C
ATOM	13403	O	ALA	L	118	-16.485	2.240-178.003	1.00	0.00	O
ATOM	13404	CB	ALA	L	118	-16.691	2.152-175.039	1.00	0.00	C
ATOM	13405	1HB	ALA	L	118	-16.646	3.229-174.873	1.00	0.00	H
ATOM	13406	2HB	ALA	L	118	-16.673	1.638-174.078	1.00	0.00	H
ATOM	13407	3HB	ALA	L	118	-17.614	1.910-175.565	1.00	0.00	H
ATOM	13408	N	CYS	L	119	-14.378	2.996-177.686	1.00	0.00	N
ATOM	13409	H	CYS	L	119	-13.596	3.015-177.046	1.00	0.00	H
ATOM	13410	CA	CYS	L	119	-14.158	3.592-179.007	1.00	0.00	C
ATOM	13411	HA	CYS	L	119	-15.012	4.223-179.263	1.00	0.00	H
ATOM	13412	C	CYS	L	119	-13.991	2.533-180.128	1.00	0.00	C
ATOM	13413	O	CYS	L	119	-13.681	1.368-179.860	1.00	0.00	O
ATOM	13414	CB	CYS	L	119	-12.907	4.473-178.854	1.00	0.00	C
ATOM	13415	1HB	CYS	L	119	-12.997	5.067-177.942	1.00	0.00	H
ATOM	13416	2HB	CYS	L	119	-12.019	3.843-178.774	1.00	0.00	H
ATOM	13417	SG	CYS	L	119	-12.740	5.609-180.252	1.00	0.00	S
ATOM	13418	HG	CYS	L	119	-11.666	6.279-179.820	1.00	0.00	H
ATOM	13419	N	THR	L	120	-14.137	2.935-181.396	1.00	0.00	N
ATOM	13420	H	THR	L	120	-14.462	3.888-181.543	1.00	0.00	H
ATOM	13421	CA	THR	L	120	-14.070	2.055-182.581	1.00	0.00	C



ATOM	13422	HA	THR	L	120	-13.690	1.085-182.269	1.00	0.00	H
ATOM	13423	C	THR	L	120	-13.143	2.602-183.679	1.00	0.00	C
ATOM	13424	O	THR	L	120	-13.073	3.812-183.884	1.00	0.00	O
ATOM	13425	CB	THR	L	120	-15.468	1.832-183.188	1.00	0.00	C
ATOM	13426	HB	THR	L	120	-15.363	1.173-184.049	1.00	0.00	H
ATOM	13427	OG1	THR	L	120	-16.050	3.034-183.631	1.00	0.00	O
ATOM	13428	HG1	THR	L	120	-16.196	3.602-182.835	1.00	0.00	H
ATOM	13429	CG2	THR	L	120	-16.448	1.178-182.216	1.00	0.00	C
ATOM	13430	1HG2	THR	L	120	-16.024	0.248-181.840	1.00	0.00	H
ATOM	13431	2HG2	THR	L	120	-17.381	0.968-182.737	1.00	0.00	H
ATOM	13432	3HG2	THR	L	120	-16.650	1.847-181.378	1.00	0.00	H
ATOM	13433	N	PRO	L	121	-12.438	1.750-184.455	1.00	0.00	N
ATOM	13434	CA	PRO	L	121	-11.602	2.224-185.563	1.00	0.00	C
ATOM	13435	HA	PRO	L	121	-10.894	2.964-185.191	1.00	0.00	H
ATOM	13436	C	PRO	L	121	-12.415	2.878-186.692	1.00	0.00	C
ATOM	13437	O	PRO	L	121	-11.877	3.672-187.461	1.00	0.00	O
ATOM	13438	CB	PRO	L	121	-10.825	1.003-186.057	1.00	0.00	C
ATOM	13439	1HB	PRO	L	121	-10.685	1.019-187.138	1.00	0.00	H
ATOM	13440	2HB	PRO	L	121	-9.857	0.975-185.560	1.00	0.00	H
ATOM	13441	CG	PRO	L	121	-11.675	-0.189-185.616	1.00	0.00	C
ATOM	13442	1HG	PRO	L	121	-12.401	-0.418-186.394	1.00	0.00	H
ATOM	13443	2HG	PRO	L	121	-11.066	-1.069-185.411	1.00	0.00	H
ATOM	13444	CD	PRO	L	121	-12.403	0.299-184.361	1.00	0.00	C
ATOM	13445	1HD	PRO	L	121	-13.408	-0.124-184.324	1.00	0.00	H
ATOM	13446	2HD	PRO	L	121	-11.849	0.008-183.469	1.00	0.00	H
ATOM	13447	N	GLU	L	122	-13.700	2.544-186.809	1.00	0.00	N
ATOM	13448	H	GLU	L	122	-14.063	1.804-186.211	1.00	0.00	H
ATOM	13449	CA	GLU	L	122	-14.661	3.187-187.706	1.00	0.00	C
ATOM	13450	HA	GLU	L	122	-14.268	3.192-188.722	1.00	0.00	H
ATOM	13451	C	GLU	L	122	-14.925	4.656-187.328	1.00	0.00	C
ATOM	13452	O	GLU	L	122	-14.975	5.496-188.223	1.00	0.00	O
ATOM	13453	CB	GLU	L	122	-15.976	2.386-187.704	1.00	0.00	C
ATOM	13454	1HB	GLU	L	122	-16.346	2.285-186.682	1.00	0.00	H
ATOM	13455	2HB	GLU	L	122	-16.717	2.958-188.264	1.00	0.00	H
ATOM	13456	CG	GLU	L	122	-15.884	0.993-188.364	1.00	0.00	C
ATOM	13457	1HG	GLU	L	122	-16.896	0.589-188.442	1.00	0.00	H
ATOM	13458	2HG	GLU	L	122	-15.504	1.118-189.380	1.00	0.00	H
ATOM	13459	CD	GLU	L	122	-15.015	-0.035-187.616	1.00	0.00	C
ATOM	13460	OE1	GLU	L	122	-14.411	-0.910-188.288	1.00	0.00	O
ATOM	13461	OE2	GLU	L	122	-14.920	0.030-186.372	1.00	0.00	O
ATOM	13462	N	GLU	L	123	-15.045	4.997-186.038	1.00	0.00	N
ATOM	13463	H	GLU	L	123	-15.010	4.284-185.317	1.00	0.00	H
ATOM	13464	CA	GLU	L	123	-15.224	6.400-185.626	1.00	0.00	C
ATOM	13465	HA	GLU	L	123	-15.761	6.905-186.426	1.00	0.00	H
ATOM	13466	C	GLU	L	123	-13.894	7.154-185.477	1.00	0.00	C
ATOM	13467	O	GLU	L	123	-13.838	8.328-185.818	1.00	0.00	O
ATOM	13468	CB	GLU	L	123	-16.135	6.520-184.393	1.00	0.00	C
ATOM	13469	1HB	GLU	L	123	-16.606	7.504-184.408	1.00	0.00	H
ATOM	13470	2HB	GLU	L	123	-16.932	5.779-184.488	1.00	0.00	H
ATOM	13471	CG	GLU	L	123	-15.441	6.352-183.037	1.00	0.00	C
ATOM	13472	1HG	GLU	L	123	-14.647	5.613-183.125	1.00	0.00	H
ATOM	13473	2HG	GLU	L	123	-14.987	7.299-182.737	1.00	0.00	H
ATOM	13474	CD	GLU	L	123	-16.438	5.876-181.979	1.00	0.00	C
ATOM	13475	OE1	GLU	L	123	-16.353	4.682-181.606	1.00	0.00	O
ATOM	13476	OE2	GLU	L	123	-17.313	6.657-181.547	1.00	0.00	O
ATOM	13477	N	VAL	L	124	-12.799	6.489-185.085	1.00	0.00	N
ATOM	13478	H	VAL	L	124	-12.913	5.535-184.756	1.00	0.00	H
ATOM	13479	CA	VAL	L	124	-11.452	7.098-185.061	1.00	0.00	C
ATOM	13480	HA	VAL	L	124	-11.465	7.949-184.382	1.00	0.00	H
ATOM	13481	C	VAL	L	124	-11.068	7.658-186.428	1.00	0.00	C
ATOM	13482	O	VAL	L	124	-10.637	8.806-186.516	1.00	0.00	O
ATOM	13483	CB	VAL	L	124	-10.391	6.095-184.565	1.00	0.00	C
ATOM	13484	HB	VAL	L	124	-10.511	5.158-185.109	1.00	0.00	H
ATOM	13485	CG1	VAL	L	124	-8.946	6.572-184.756	1.00	0.00	C
ATOM	13486	1HG1	VAL	L	124	-8.252	5.854-184.319	1.00	0.00	H
ATOM	13487	2HG1	VAL	L	124	-8.822	7.540-184.269	1.00	0.00	H
ATOM	13488	3HG1	VAL	L	124	-8.711	6.671-185.815	1.00	0.00	H
ATOM	13489	CG2	VAL	L	124	-10.559	5.826-183.066	1.00	0.00	C
ATOM	13490	1HG2	VAL	L	124	-9.885	5.031-182.749	1.00	0.00	H
ATOM	13491	2HG2	VAL	L	124	-11.581	5.522-182.855	1.00	0.00	H
ATOM	13492	3HG2	VAL	L	124	-10.346	6.732-182.498	1.00	0.00	H
ATOM	13493	N	GLN	L	125	-11.240	6.875-187.502	1.00	0.00	N
ATOM	13494	H	GLN	L	125	-11.616	5.943-187.390	1.00	0.00	H
ATOM	13495	CA	GLN	L	125	-10.955	7.389-188.842	1.00	0.00	C
ATOM	13496	HA	GLN	L	125	-9.970	7.859-188.804	1.00	0.00	H
ATOM	13497	C	GLN	L	125	-11.928	8.504-189.233	1.00	0.00	C
ATOM	13498	O	GLN	L	125	-11.463	9.491-189.776	1.00	0.00	O

ATOM	13499	CB	GLN	L	125	-10.851	6.265-189.891	1.00	0.00	C
ATOM	13500	1HB	GLN	L	125	-10.424	6.683-190.804	1.00	0.00	H
ATOM	13501	2HB	GLN	L	125	-10.155	5.515-189.514	1.00	0.00	H
ATOM	13502	CG	GLN	L	125	-12.174	5.576-190.252	1.00	0.00	C
ATOM	13503	1HG	GLN	L	125	-12.716	5.353-189.338	1.00	0.00	H
ATOM	13504	2HG	GLN	L	125	-12.785	6.246-190.857	1.00	0.00	H
ATOM	13505	CD	GLN	L	125	-11.955	4.275-191.023	1.00	0.00	C
ATOM	13506	OE1	GLN	L	125	-11.675	4.242-192.210	1.00	0.00	O
ATOM	13507	NE2	GLN	L	125	-12.064	3.144-190.361	1.00	0.00	N
ATOM	13508	1HE2	GLN	L	125	-11.946	2.276-190.883	1.00	0.00	H
ATOM	13509	2HE2	GLN	L	125	-12.168	3.188-189.357	1.00	0.00	H
ATOM	13510	N	GLN	L	126	-13.230	8.410-188.921	1.00	0.00	N
ATOM	13511	H	GLN	L	126	-13.577	7.597-188.432	1.00	0.00	H
ATOM	13512	CA	GLN	L	126	-14.175	9.462-189.309	1.00	0.00	C
ATOM	13513	HA	GLN	L	126	-13.944	9.714-190.347	1.00	0.00	H
ATOM	13514	C	GLN	L	126	-14.001	10.761-188.528	1.00	0.00	C
ATOM	13515	O	GLN	L	126	-14.238	11.775-189.144	1.00	0.00	O
ATOM	13516	CB	GLN	L	126	-15.640	8.982-189.318	1.00	0.00	C
ATOM	13517	1HB	GLN	L	126	-16.166	9.519-190.109	1.00	0.00	H
ATOM	13518	2HB	GLN	L	126	-15.652	7.927-189.594	1.00	0.00	H
ATOM	13519	CG	GLN	L	126	-16.437	9.160-188.009	1.00	0.00	C
ATOM	13520	1HG	GLN	L	126	-17.209	8.391-187.975	1.00	0.00	H
ATOM	13521	2HG	GLN	L	126	-15.790	9.007-187.153	1.00	0.00	H
ATOM	13522	CD	GLN	L	126	-17.146	10.510-187.879	1.00	0.00	C
ATOM	13523	OE1	GLN	L	126	-18.061	10.812-188.629	1.00	0.00	O
ATOM	13524	NE2	GLN	L	126	-16.818	11.322-186.897	1.00	0.00	N
ATOM	13525	1HE2	GLN	L	126	-17.201	12.255-186.946	1.00	0.00	H
ATOM	13526	2HE2	GLN	L	126	-16.039	11.142-186.289	1.00	0.00	H
ATOM	13527	N	HIS	L	127	-13.589	10.755-187.249	1.00	0.00	N
ATOM	13528	H	HIS	L	127	-13.436	9.863-186.793	1.00	0.00	H
ATOM	13529	CA	HIS	L	127	-13.242	11.972-186.497	1.00	0.00	C
ATOM	13530	HA	HIS	L	127	-14.074	12.679-186.509	1.00	0.00	H
ATOM	13531	C	HIS	L	127	-12.039	12.675-187.132	1.00	0.00	C
ATOM	13532	O	HIS	L	127	-12.114	13.847-187.434	1.00	0.00	O
ATOM	13533	CB	HIS	L	127	-12.905	11.645-185.033	1.00	0.00	C
ATOM	13534	1HB	HIS	L	127	-12.439	10.661-184.978	1.00	0.00	H
ATOM	13535	2HB	HIS	L	127	-12.168	12.374-184.688	1.00	0.00	H
ATOM	13536	CG	HIS	L	127	-14.055	11.712-184.057	1.00	0.00	C
ATOM	13537	ND1	HIS	L	127	-14.298	12.727-183.155	1.00	0.00	N
ATOM	13538	HD1	HIS	L	127	-13.797	13.610-183.065	1.00	0.00	H
ATOM	13539	CD2	HIS	L	127	-14.989	10.741-183.816	1.00	0.00	C
ATOM	13540	HD2	HIS	L	127	-15.059	9.792-184.320	1.00	0.00	H
ATOM	13541	CE1	HIS	L	127	-15.366	12.387-182.416	1.00	0.00	C
ATOM	13542	HE1	HIS	L	127	-15.802	13.007-181.643	1.00	0.00	H
ATOM	13543	NE2	HIS	L	127	-15.804	11.159-182.759	1.00	0.00	N
ATOM	13544	N	PHE	L	128	-10.936	11.963-187.385	1.00	0.00	N
ATOM	13545	H	PHE	L	128	-10.885	10.998-187.093	1.00	0.00	H
ATOM	13546	CA	PHE	L	128	-9.758	12.600-187.983	1.00	0.00	C
ATOM	13547	HA	PHE	L	128	-9.587	13.564-187.497	1.00	0.00	H
ATOM	13548	C	PHE	L	128	-9.893	12.887-189.469	1.00	0.00	C
ATOM	13549	O	PHE	L	128	-9.283	13.845-189.919	1.00	0.00	O
ATOM	13550	CB	PHE	L	128	-8.524	11.721-187.832	1.00	0.00	C
ATOM	13551	1HB	PHE	L	128	-8.714	10.781-188.348	1.00	0.00	H
ATOM	13552	2HB	PHE	L	128	-7.683	12.210-188.328	1.00	0.00	H
ATOM	13553	CG	PHE	L	128	-8.100	11.419-186.420	1.00	0.00	C
ATOM	13554	CD1	PHE	L	128	-8.068	12.424-185.435	1.00	0.00	C
ATOM	13555	HD1	PHE	L	128	-8.393	13.432-185.661	1.00	0.00	H
ATOM	13556	CD2	PHE	L	128	-7.696	10.112-186.105	1.00	0.00	C
ATOM	13557	HD2	PHE	L	128	-7.755	9.337-186.852	1.00	0.00	H
ATOM	13558	CE1	PHE	L	128	-7.630	12.113-184.138	1.00	0.00	C
ATOM	13559	HE1	PHE	L	128	-7.639	12.878-183.373	1.00	0.00	H
ATOM	13560	CE2	PHE	L	128	-7.228	9.810-184.818	1.00	0.00	C
ATOM	13561	HE2	PHE	L	128	-6.908	8.808-184.585	1.00	0.00	H
ATOM	13562	CZ	PHE	L	128	-7.199	10.812-183.832	1.00	0.00	C
ATOM	13563	HZ	PHE	L	128	-6.865	10.585-182.831	1.00	0.00	H
ATOM	13564	N	GLN	L	129	-10.633	12.070-190.233	1.00	0.00	N
ATOM	13565	H	GLN	L	129	-11.058	11.259-189.805	1.00	0.00	H
ATOM	13566	CA	GLN	L	129	-11.053	12.427-191.590	1.00	0.00	C
ATOM	13567	HA	GLN	L	129	-10.165	12.628-192.192	1.00	0.00	H
ATOM	13568	C	GLN	L	129	-11.803	13.720-191.431	1.00	0.00	C
ATOM	13569	O	GLN	L	129	-11.277	14.716-191.915	1.00	0.00	O
ATOM	13570	CB	GLN	L	129	-11.909	11.340-192.274	1.00	0.00	C
ATOM	13571	1HB	GLN	L	129	-11.483	10.362-192.069	1.00	0.00	H
ATOM	13572	2HB	GLN	L	129	-12.924	11.350-191.876	1.00	0.00	H
ATOM	13573	CG	GLN	L	129	-11.957	11.494-193.802	1.00	0.00	C
ATOM	13574	1HG	GLN	L	129	-12.476	12.413-194.070	1.00	0.00	H
ATOM	13575	2HG	GLN	L	129	-10.942	11.548-194.194	1.00	0.00	H

ATOM	13576	CD	GLN	L	129	-12.674	10.308-194.445	1.00	0.00	C
ATOM	13577	OE1	GLN	L	129	-13.878	10.269-194.644	1.00	0.00	O
ATOM	13578	NE2	GLN	L	129	-11.970	9.238-194.754	1.00	0.00	N
ATOM	13579	1HE2	GLN	L	129	-12.467	8.531-195.253	1.00	0.00	H
ATOM	13580	2HE2	GLN	L	129	-10.961	9.239-194.654	1.00	0.00	H
ATOM	13581	N	SER	L	130	-12.822	13.684-190.553	1.00	0.00	N
ATOM	13582	H	SER	L	130	-13.119	12.789-190.201	1.00	0.00	H
ATOM	13583	CA	SER	L	130	-13.478	14.835-189.967	1.00	0.00	C
ATOM	13584	HA	SER	L	130	-14.024	15.268-190.786	1.00	0.00	H
ATOM	13585	C	SER	L	130	-12.536	15.937-189.486	1.00	0.00	C
ATOM	13586	O	SER	L	130	-13.270	16.852-189.166	1.00	0.00	O
ATOM	13587	CB	SER	L	130	-14.669	14.583-188.988	1.00	0.00	C
ATOM	13588	1HB	SER	L	130	-14.374	13.939-188.171	1.00	0.00	H
ATOM	13589	2HB	SER	L	130	-15.009	15.513-188.533	1.00	0.00	H
ATOM	13590	OG	SER	L	130	-15.795	14.035-189.666	1.00	0.00	O
ATOM	13591	HG	SER	L	130	-15.447	13.347-190.171	1.00	0.00	H
ATOM	13592	N	CYS	L	131	-11.134	15.951-189.590	1.00	0.00	N
ATOM	13593	H	CYS	L	131	-10.745	15.056-189.824	1.00	0.00	H
ATOM	13594	CA	CYS	L	131	-10.127	17.106-189.758	1.00	0.00	C
ATOM	13595	HA	CYS	L	131	-10.730	17.972-189.867	1.00	0.00	H
ATOM	13596	C	CYS	L	131	-9.094	17.151-190.932	1.00	0.00	C
ATOM	13597	O	CYS	L	131	-8.831	18.221-191.487	1.00	0.00	O
ATOM	13598	CB	CYS	L	131	-9.258	17.587-188.583	1.00	0.00	C
ATOM	13599	1HB	CYS	L	131	-9.529	17.189-187.614	1.00	0.00	H
ATOM	13600	2HB	CYS	L	131	-8.216	17.314-188.727	1.00	0.00	H
ATOM	13601	SG	CYS	L	131	-9.427	19.423-188.649	1.00	0.00	S
ATOM	13602	HG	CYS	L	131	-9.795	19.499-187.352	1.00	0.00	H
ATOM	13603	N	GLY	L	132	-8.358	16.082-191.254	1.00	0.00	N
ATOM	13604	H	GLY	L	132	-8.602	15.198-190.824	1.00	0.00	H
ATOM	13605	CA	GLY	L	132	-7.279	16.101-192.265	1.00	0.00	C
ATOM	13606	1HA	GLY	L	132	-7.458	16.898-192.985	1.00	0.00	H
ATOM	13607	2HA	GLY	L	132	-6.326	16.289-191.779	1.00	0.00	H
ATOM	13608	C	GLY	L	132	-7.205	14.770-193.012	1.00	0.00	C
ATOM	13609	O	GLY	L	132	-7.195	13.731-192.360	1.00	0.00	O
ATOM	13610	N	THR	L	133	-7.212	14.786-194.360	1.00	0.00	N
ATOM	13611	H	THR	L	133	-7.276	15.694-194.784	1.00	0.00	H
ATOM	13612	CA	THR	L	133	-7.716	13.618-195.125	1.00	0.00	C
ATOM	13613	HA	THR	L	133	-8.751	13.468-194.813	1.00	0.00	H
ATOM	13614	C	THR	L	133	-6.942	12.376-194.728	1.00	0.00	C
ATOM	13615	O	THR	L	133	-5.712	12.386-194.733	1.00	0.00	O
ATOM	13616	CB	THR	L	133	-7.764	13.800-196.656	1.00	0.00	C
ATOM	13617	HB	THR	L	133	-8.470	14.592-196.875	1.00	0.00	H
ATOM	13618	OG1	THR	L	133	-8.229	12.629-197.286	1.00	0.00	O
ATOM	13619	HG1	THR	L	133	-7.473	12.099-197.559	1.00	0.00	H
ATOM	13620	CG2	THR	L	133	-6.449	14.151-197.340	1.00	0.00	C
ATOM	13621	1HG2	THR	L	133	-6.645	14.400-198.383	1.00	0.00	H
ATOM	13622	2HG2	THR	L	133	-5.778	13.297-197.300	1.00	0.00	H
ATOM	13623	3HG2	THR	L	133	-5.992	15.009-196.849	1.00	0.00	H
ATOM	13624	N	VAL	L	134	-7.663	11.332-194.326	1.00	0.00	N
ATOM	13625	H	VAL	L	134	-8.669	11.403-194.388	1.00	0.00	H
ATOM	13626	CA	VAL	L	134	-7.114	10.148-193.657	1.00	0.00	C
ATOM	13627	HA	VAL	L	134	-6.061	10.063-193.906	1.00	0.00	H
ATOM	13628	C	VAL	L	134	-7.838	8.913-194.181	1.00	0.00	C
ATOM	13629	O	VAL	L	134	-9.025	8.972-194.514	1.00	0.00	O
ATOM	13630	CB	VAL	L	134	-7.205	10.300-192.125	1.00	0.00	C
ATOM	13631	HB	VAL	L	134	-6.963	11.324-191.857	1.00	0.00	H
ATOM	13632	CG1	VAL	L	134	-8.592	9.977-191.586	1.00	0.00	C
ATOM	13633	1HG1	VAL	L	134	-9.310	10.531-192.174	1.00	0.00	H
ATOM	13634	2HG1	VAL	L	134	-8.660	10.284-190.546	1.00	0.00	H
ATOM	13635	3HG1	VAL	L	134	-8.815	8.914-191.660	1.00	0.00	H
ATOM	13636	CG2	VAL	L	134	-6.205	9.418-191.386	1.00	0.00	C
ATOM	13637	1HG2	VAL	L	134	-5.194	9.696-191.680	1.00	0.00	H
ATOM	13638	2HG2	VAL	L	134	-6.385	8.369-191.613	1.00	0.00	H
ATOM	13639	3HG2	VAL	L	134	-6.312	9.591-190.316	1.00	0.00	H
ATOM	13640	N	ASN	L	135	-7.117	7.798-194.302	1.00	0.00	N
ATOM	13641	H	ASN	L	135	-6.143	7.832-194.014	1.00	0.00	H
ATOM	13642	CA	ASN	L	135	-7.563	6.677-195.129	1.00	0.00	C
ATOM	13643	HA	ASN	L	135	-8.619	6.800-195.380	1.00	0.00	H
ATOM	13644	C	ASN	L	135	-7.480	5.324-194.413	1.00	0.00	C
ATOM	13645	O	ASN	L	135	-8.496	4.631-194.364	1.00	0.00	O
ATOM	13646	CB	ASN	L	135	-6.785	6.738-196.455	1.00	0.00	C
ATOM	13647	1HB	ASN	L	135	-7.239	7.493-197.095	1.00	0.00	H
ATOM	13648	2HB	ASN	L	135	-5.758	7.048-196.264	1.00	0.00	H
ATOM	13649	CG	ASN	L	135	-6.764	5.431-197.224	1.00	0.00	C
ATOM	13650	OD1	ASN	L	135	-7.765	4.883-197.651	1.00	0.00	O
ATOM	13651	ND2	ASN	L	135	-5.608	4.838-197.373	1.00	0.00	N
ATOM	13652	1HD2	ASN	L	135	-5.557	4.049-197.976	1.00	0.00	H

ATOM	13653	2HD2	ASN	L	135	-4.810	5.209-196.843	1.00	0.00	H
ATOM	13654	N	ARG	L	136	-6.333	4.917-193.846	1.00	0.00	N
ATOM	13655	H	ARG	L	136	-5.502	5.486-194.002	1.00	0.00	H
ATOM	13656	CA	ARG	L	136	-6.194	3.629-193.120	1.00	0.00	C
ATOM	13657	HA	ARG	L	136	-7.133	3.090-193.194	1.00	0.00	H
ATOM	13658	C	ARG	L	136	-6.018	3.800-191.613	1.00	0.00	C
ATOM	13659	O	ARG	L	136	-5.676	4.874-191.133	1.00	0.00	O
ATOM	13660	CB	ARG	L	136	-5.080	2.762-193.753	1.00	0.00	C
ATOM	13661	1HB	ARG	L	136	-4.515	3.344-194.478	1.00	0.00	H
ATOM	13662	2HB	ARG	L	136	-4.374	2.463-192.977	1.00	0.00	H
ATOM	13663	CG	ARG	L	136	-5.573	1.486-194.457	1.00	0.00	C
ATOM	13664	1HG	ARG	L	136	-4.689	0.919-194.751	1.00	0.00	H
ATOM	13665	2HG	ARG	L	136	-6.134	0.874-193.750	1.00	0.00	H
ATOM	13666	CD	ARG	L	136	-6.408	1.735-195.728	1.00	0.00	C
ATOM	13667	1HD	ARG	L	136	-5.896	2.480-196.336	1.00	0.00	H
ATOM	13668	2HD	ARG	L	136	-6.456	0.819-196.311	1.00	0.00	H
ATOM	13669	NE	ARG	L	136	-7.777	2.198-195.443	1.00	0.00	N
ATOM	13670	HE	ARG	L	136	-7.956	3.195-195.542	1.00	0.00	H
ATOM	13671	CZ	ARG	L	136	-8.756	1.534-194.863	1.00	0.00	C
ATOM	13672	NH1	ARG	L	136	-8.715	0.250-194.701	1.00	0.00	N
ATOM	13673	1HH1	ARG	L	136	-7.910	-0.272-195.003	1.00	0.00	H
ATOM	13674	2HH1	ARG	L	136	-9.522	-0.147-194.216	1.00	0.00	H
ATOM	13675	NH2	ARG	L	136	-9.795	2.136-194.377	1.00	0.00	N
ATOM	13676	1HH2	ARG	L	136	-9.814	3.154-194.336	1.00	0.00	H
ATOM	13677	2HH2	ARG	L	136	-10.489	1.591-193.872	1.00	0.00	H
ATOM	13678	N	VAL	L	137	-6.275	2.708-190.884	1.00	0.00	N
ATOM	13679	H	VAL	L	137	-6.506	1.862-191.379	1.00	0.00	H
ATOM	13680	CA	VAL	L	137	-6.363	2.635-189.415	1.00	0.00	C
ATOM	13681	HA	VAL	L	137	-5.659	3.351-189.000	1.00	0.00	H
ATOM	13682	C	VAL	L	137	-5.998	1.231-188.908	1.00	0.00	C
ATOM	13683	O	VAL	L	137	-6.290	0.243-189.586	1.00	0.00	O
ATOM	13684	CB	VAL	L	137	-7.794	3.028-188.960	1.00	0.00	C
ATOM	13685	HB	VAL	L	137	-8.005	4.021-189.356	1.00	0.00	H
ATOM	13686	CG1	VAL	L	137	-8.887	2.088-189.492	1.00	0.00	C
ATOM	13687	1HG1	VAL	L	137	-8.731	1.071-189.140	1.00	0.00	H
ATOM	13688	2HG1	VAL	L	137	-8.903	2.104-190.582	1.00	0.00	H
ATOM	13689	3HG1	VAL	L	137	-9.855	2.437-189.137	1.00	0.00	H
ATOM	13690	CG2	VAL	L	137	-7.965	3.101-187.436	1.00	0.00	C
ATOM	13691	1HG2	VAL	L	137	-8.938	3.537-187.202	1.00	0.00	H
ATOM	13692	2HG2	VAL	L	137	-7.200	3.744-187.003	1.00	0.00	H
ATOM	13693	3HG2	VAL	L	137	-7.903	2.112-186.985	1.00	0.00	H
ATOM	13694	N	THR	L	138	-5.445	1.133-187.693	1.00	0.00	N
ATOM	13695	H	THR	L	138	-5.231	2.003-187.212	1.00	0.00	H
ATOM	13696	CA	THR	L	138	-5.310	-0.124-186.916	1.00	0.00	C
ATOM	13697	HA	THR	L	138	-6.116	-0.792-187.214	1.00	0.00	H
ATOM	13698	C	THR	L	138	-5.458	0.168-185.416	1.00	0.00	C
ATOM	13699	O	THR	L	138	-5.158	1.272-184.963	1.00	0.00	O
ATOM	13700	CB	THR	L	138	-3.969	-0.864-187.149	1.00	0.00	C
ATOM	13701	HB	THR	L	138	-3.182	-0.387-186.564	1.00	0.00	H
ATOM	13702	OG1	THR	L	138	-3.588	-0.867-188.503	1.00	0.00	O
ATOM	13703	HG1	THR	L	138	-2.636	-0.974-188.539	1.00	0.00	H
ATOM	13704	CG2	THR	L	138	-4.037	-2.352-186.796	1.00	0.00	C
ATOM	13705	1HG2	THR	L	138	-4.242	-2.486-185.736	1.00	0.00	H
ATOM	13706	2HG2	THR	L	138	-3.075	-2.822-187.004	1.00	0.00	H
ATOM	13707	3HG2	THR	L	138	-4.814	-2.839-187.383	1.00	0.00	H
ATOM	13708	N	ILE	L	139	-5.942	-0.824-184.663	1.00	0.00	N
ATOM	13709	H	ILE	L	139	-6.102	-1.714-185.110	1.00	0.00	H
ATOM	13710	CA	ILE	L	139	-6.202	-0.824-183.214	1.00	0.00	C
ATOM	13711	HA	ILE	L	139	-5.378	-0.326-182.700	1.00	0.00	H
ATOM	13712	C	ILE	L	139	-6.280	-2.292-182.748	1.00	0.00	C
ATOM	13713	O	ILE	L	139	-6.666	-3.154-183.549	1.00	0.00	O
ATOM	13714	CB	ILE	L	139	-7.529	-0.064-182.937	1.00	0.00	C
ATOM	13715	HB	ILE	L	139	-7.437	0.920-183.400	1.00	0.00	H
ATOM	13716	CG1	ILE	L	139	-7.787	0.172-181.433	1.00	0.00	C
ATOM	13717	1HG1	ILE	L	139	-7.989	-0.775-180.933	1.00	0.00	H
ATOM	13718	2HG1	ILE	L	139	-6.894	0.606-180.994	1.00	0.00	H
ATOM	13719	CG2	ILE	L	139	-8.741	-0.769-183.577	1.00	0.00	C
ATOM	13720	1HG2	ILE	L	139	-9.612	-0.124-183.504	1.00	0.00	H
ATOM	13721	2HG2	ILE	L	139	-8.959	-1.707-183.064	1.00	0.00	H
ATOM	13722	3HG2	ILE	L	139	-8.557	-0.971-184.631	1.00	0.00	H
ATOM	13723	CD1	ILE	L	139	-8.952	1.133-181.150	1.00	0.00	C
ATOM	13724	1HD1	ILE	L	139	-8.809	2.067-181.695	1.00	0.00	H
ATOM	13725	2HD1	ILE	L	139	-8.992	1.354-180.084	1.00	0.00	H
ATOM	13726	3HD1	ILE	L	139	-9.903	0.684-181.437	1.00	0.00	H
ATOM	13727	N	LEU	L	140	-5.995	-2.601-181.471	1.00	0.00	N
ATOM	13728	H	LEU	L	140	-5.689	-1.858-180.859	1.00	0.00	H
ATOM	13729	CA	LEU	L	140	-6.143	-3.976-180.956	1.00	0.00	C

ATOM	13730	HA	LEU	L	140	-6.849	-4.484-181.613	1.00	0.00	H
ATOM	13731	C	LEU	L	140	-6.779	-4.100-179.563	1.00	0.00	O
ATOM	13732	O	LEU	L	140	-7.911	-4.570-179.516	1.00	0.00	C
ATOM	13733	CB	LEU	L	140	-4.811	-4.739-181.081	1.00	0.00	C
ATOM	13734	1HB	LEU	L	140	-4.488	-4.674-182.119	1.00	0.00	H
ATOM	13735	2HB	LEU	L	140	-4.053	-4.256-180.468	1.00	0.00	H
ATOM	13736	CG	LEU	L	140	-4.872	-6.229-180.694	1.00	0.00	C
ATOM	13737	HG	LEU	L	140	-5.158	-6.323-179.646	1.00	0.00	H
ATOM	13738	CD1	LEU	L	140	-5.866	-7.027-181.543	1.00	0.00	C
ATOM	13739	1HD1	LEU	L	140	-6.882	-6.682-181.355	1.00	0.00	H
ATOM	13740	2HD1	LEU	L	140	-5.805	-8.085-181.296	1.00	0.00	H
ATOM	13741	3HD1	LEU	L	140	-5.632	-6.886-182.600	1.00	0.00	H
ATOM	13742	CD2	LEU	L	140	-3.491	-6.862-180.864	1.00	0.00	C
ATOM	13743	1HD2	LEU	L	140	-3.171	-6.769-181.905	1.00	0.00	H
ATOM	13744	2HD2	LEU	L	140	-3.512	-7.910-180.577	1.00	0.00	H
ATOM	13745	3HD2	LEU	L	140	-2.770	-6.330-180.241	1.00	0.00	H
ATOM	13746	N	THR	L	141	-6.073	-3.767-178.468	1.00	0.00	N
ATOM	13747	H	THR	L	141	-5.142	-3.410-178.636	1.00	0.00	H
ATOM	13748	CA	THR	L	141	-6.441	-3.802-177.020	1.00	0.00	C
ATOM	13749	HA	THR	L	141	-6.670	-2.775-176.735	1.00	0.00	H
ATOM	13750	C	THR	L	141	-5.284	-4.248-176.116	1.00	0.00	C
ATOM	13751	O	THR	L	141	-4.538	-5.163-176.466	1.00	0.00	O
ATOM	13752	CB	THR	L	141	-7.651	-4.681-176.602	1.00	0.00	C
ATOM	13753	HB	THR	L	141	-7.539	-4.939-175.549	1.00	0.00	H
ATOM	13754	OG1	THR	L	141	-7.732	-5.901-177.312	1.00	0.00	O
ATOM	13755	HG1	THR	L	141	-7.966	-5.589-178.213	1.00	0.00	H
ATOM	13756	CG2	THR	L	141	-8.994	-3.964-176.702	1.00	0.00	C
ATOM	13757	1HG2	THR	L	141	-8.978	-3.095-176.055	1.00	0.00	H
ATOM	13758	2HG2	THR	L	141	-9.795	-4.629-176.382	1.00	0.00	H
ATOM	13759	3HG2	THR	L	141	-9.196	-3.614-177.711	1.00	0.00	H
ATOM	13760	N	ASP	L	142	-5.287	-3.745-174.881	1.00	0.00	N
ATOM	13761	H	ASP	L	142	-5.713	-2.837-174.779	1.00	0.00	H
ATOM	13762	CA	ASP	L	142	-4.554	-4.232-173.703	1.00	0.00	C
ATOM	13763	HA	ASP	L	142	-3.485	-4.120-173.894	1.00	0.00	H
ATOM	13764	C	ASP	L	142	-4.798	-5.729-173.361	1.00	0.00	C
ATOM	13765	O	ASP	L	142	-5.769	-6.355-173.810	1.00	0.00	O
ATOM	13766	CB	ASP	L	142	-4.918	-3.272-172.548	1.00	0.00	C
ATOM	13767	1HB	ASP	L	142	-4.256	-2.406-172.596	1.00	0.00	H
ATOM	13768	2HB	ASP	L	142	-5.935	-2.911-172.689	1.00	0.00	H
ATOM	13769	CG	ASP	L	142	-4.832	-3.886-171.155	1.00	0.00	C
ATOM	13770	OD1	ASP	L	142	-3.702	-4.107-170.668	1.00	0.00	O
ATOM	13771	OD2	ASP	L	142	-5.887	-4.252-170.585	1.00	0.00	O
ATOM	13772	N	LYS	L	143	-3.909	-6.318-172.541	1.00	0.00	N
ATOM	13773	H	LYS	L	143	-3.182	-5.706-172.179	1.00	0.00	H
ATOM	13774	CA	LYS	L	143	-4.001	-7.691-171.987	1.00	0.00	C
ATOM	13775	HA	LYS	L	143	-5.054	-7.973-171.964	1.00	0.00	H
ATOM	13776	C	LYS	L	143	-3.550	-7.815-170.511	1.00	0.00	C
ATOM	13777	O	LYS	L	143	-3.363	-8.932-170.029	1.00	0.00	O
ATOM	13778	CB	LYS	L	143	-3.240	-8.691-172.895	1.00	0.00	C
ATOM	13779	1HB	LYS	L	143	-2.256	-8.294-173.152	1.00	0.00	H
ATOM	13780	2HB	LYS	L	143	-3.075	-9.617-172.344	1.00	0.00	H
ATOM	13781	CG	LYS	L	143	-4.014	-9.092-174.164	1.00	0.00	C
ATOM	13782	1HG	LYS	L	143	-3.869	-10.160-174.334	1.00	0.00	H
ATOM	13783	2HG	LYS	L	143	-5.080	-8.940-173.996	1.00	0.00	H
ATOM	13784	CD	LYS	L	143	-3.558	-8.357-175.434	1.00	0.00	C
ATOM	13785	1HD	LYS	L	143	-3.375	-7.301-175.225	1.00	0.00	H
ATOM	13786	2HD	LYS	L	143	-2.619	-8.795-175.778	1.00	0.00	H
ATOM	13787	CE	LYS	L	143	-4.617	-8.489-176.537	1.00	0.00	C
ATOM	13788	1HE	LYS	L	143	-4.157	-8.225-177.495	1.00	0.00	H
ATOM	13789	2HE	LYS	L	143	-4.966	-9.522-176.582	1.00	0.00	H
ATOM	13790	NZ	LYS	L	143	-5.739	-7.564-176.273	1.00	0.00	N
ATOM	13791	1HZ	LYS	L	143	-6.534	-7.628-176.896	1.00	0.00	H
ATOM	13792	2HZ	LYS	L	143	-5.395	-6.615-176.404	1.00	0.00	H
ATOM	13793	3HZ	LYS	L	143	-6.026	-7.544-175.298	1.00	0.00	H
ATOM	13794	N	PHE	L	144	-3.384	-6.708-169.789	1.00	0.00	N
ATOM	13795	H	PHE	L	144	-3.600	-5.818-170.231	1.00	0.00	H
ATOM	13796	CA	PHE	L	144	-2.789	-6.644-168.445	1.00	0.00	C
ATOM	13797	HA	PHE	L	144	-2.773	-7.638-167.997	1.00	0.00	H
ATOM	13798	C	PHE	L	144	-3.576	-5.740-167.478	1.00	0.00	C
ATOM	13799	O	PHE	L	144	-3.807	-6.137-166.336	1.00	0.00	O
ATOM	13800	CB	PHE	L	144	-1.334	-6.162-168.609	1.00	0.00	C
ATOM	13801	1HB	PHE	L	144	-0.748	-6.970-169.048	1.00	0.00	H
ATOM	13802	2HB	PHE	L	144	-1.329	-5.337-169.325	1.00	0.00	H
ATOM	13803	CG	PHE	L	144	-0.627	-5.689-167.349	1.00	0.00	C
ATOM	13804	CD1	PHE	L	144	-0.598	-6.490-166.189	1.00	0.00	C
ATOM	13805	HD1	PHE	L	144	-1.090	-7.450-166.184	1.00	0.00	H
ATOM	13806	CD2	PHE	L	144	0.005	-4.430-167.337	1.00	0.00	C

ATOM	13807	HD2	PHE	L	144	0.002	-3.808-168.223	1.00	0.00	H
ATOM	13808	CE1	PHE	L	144	0.041	-6.025-165.024	1.00	0.00	C
ATOM	13809	HE1	PHE	L	144	0.041	-6.630-164.130	1.00	0.00	H
ATOM	13810	CE2	PHE	L	144	0.644	-3.967-166.174	1.00	0.00	C
ATOM	13811	HE2	PHE	L	144	1.116	-2.993-166.173	1.00	0.00	H
ATOM	13812	CZ	PHE	L	144	0.660	-4.762-165.016	1.00	0.00	C
ATOM	13813	HZ	PHE	L	144	1.139	-4.395-164.119	1.00	0.00	H
ATOM	13814	N	GLY	L	145	-4.036	-4.570-167.926	1.00	0.00	N
ATOM	13815	H	GLY	L	145	-3.886	-4.348-168.909	1.00	0.00	H
ATOM	13816	CA	GLY	L	145	-4.787	-3.611-167.109	1.00	0.00	C
ATOM	13817	1HA	GLY	L	145	-5.771	-4.022-166.890	1.00	0.00	H
ATOM	13818	2HA	GLY	L	145	-4.257	-3.470-166.166	1.00	0.00	H
ATOM	13819	C	GLY	L	145	-4.961	-2.228-167.748	1.00	0.00	C
ATOM	13820	O	GLY	L	145	-5.994	-1.598-167.522	1.00	0.00	O
ATOM	13821	N	GLN	L	146	-4.011	-1.813-168.588	1.00	0.00	N
ATOM	13822	H	GLN	L	146	-3.283	-2.477-168.807	1.00	0.00	H
ATOM	13823	CA	GLN	L	146	-3.868	-0.496-169.235	1.00	0.00	C
ATOM	13824	HA	GLN	L	146	-3.797	0.267-168.459	1.00	0.00	H
ATOM	13825	C	GLN	L	146	-5.053	-0.119-170.167	1.00	0.00	C
ATOM	13826	O	GLN	L	146	-5.868	-0.993-170.476	1.00	0.00	O
ATOM	13827	CB	GLN	L	146	-2.531	-0.539-170.006	1.00	0.00	C
ATOM	13828	1HB	GLN	L	146	-2.571	-1.326-170.761	1.00	0.00	H
ATOM	13829	2HB	GLN	L	146	-2.384	0.406-170.512	1.00	0.00	H
ATOM	13830	CG	GLN	L	146	-1.321	-0.783-169.081	1.00	0.00	C
ATOM	13831	1HG	GLN	L	146	-1.266	0.025-168.357	1.00	0.00	H
ATOM	13832	2HG	GLN	L	146	-1.448	-1.714-168.531	1.00	0.00	H
ATOM	13833	CD	GLN	L	146	0.012	-0.873-169.819	1.00	0.00	C
ATOM	13834	OE1	GLN	L	146	0.551	-1.952-170.017	1.00	0.00	O
ATOM	13835	NE2	GLN	L	146	0.599	0.234-170.205	1.00	0.00	N
ATOM	13836	1HE2	GLN	L	146	1.457	0.191-170.738	1.00	0.00	H
ATOM	13837	2HE2	GLN	L	146	0.113	1.125-170.149	1.00	0.00	H
ATOM	13838	N	PRO	L	147	-5.215	1.142-170.628	1.00	0.00	N
ATOM	13839	CA	PRO	L	147	-6.211	1.540-171.632	1.00	0.00	C
ATOM	13840	HA	PRO	L	147	-7.174	1.601-171.125	1.00	0.00	H
ATOM	13841	C	PRO	L	147	-6.346	0.580-172.823	1.00	0.00	C
ATOM	13842	O	PRO	L	147	-5.380	-0.019-173.289	1.00	0.00	O
ATOM	13843	CB	PRO	L	147	-5.822	2.950-172.074	1.00	0.00	C
ATOM	13844	1HB	PRO	L	147	-5.066	2.907-172.859	1.00	0.00	H
ATOM	13845	2HB	PRO	L	147	-6.686	3.526-172.407	1.00	0.00	H
ATOM	13846	CG	PRO	L	147	-5.213	3.530-170.802	1.00	0.00	C
ATOM	13847	1HG	PRO	L	147	-4.506	4.328-171.028	1.00	0.00	H
ATOM	13848	2HG	PRO	L	147	-6.007	3.900-170.152	1.00	0.00	H
ATOM	13849	CD	PRO	L	147	-4.533	2.329-170.141	1.00	0.00	C
ATOM	13850	1HD	PRO	L	147	-3.484	2.304-170.423	1.00	0.00	H
ATOM	13851	2HD	PRO	L	147	-4.631	2.414-169.060	1.00	0.00	H
ATOM	13852	N	LYS	L	148	-7.580	0.413-173.307	1.00	0.00	N
ATOM	13853	H	LYS	L	148	-8.291	1.063-173.004	1.00	0.00	H
ATOM	13854	CA	LYS	L	148	-7.998	-0.729-174.134	1.00	0.00	C
ATOM	13855	HA	LYS	L	148	-7.188	-1.457-174.167	1.00	0.00	H
ATOM	13856	C	LYS	L	148	-8.234	-0.306-175.591	1.00	0.00	C
ATOM	13857	O	LYS	L	148	-9.363	-0.394-176.063	1.00	0.00	O
ATOM	13858	CB	LYS	L	148	-9.240	-1.417-173.516	1.00	0.00	C
ATOM	13859	1HB	LYS	L	148	-10.032	-0.682-173.387	1.00	0.00	H
ATOM	13860	2HB	LYS	L	148	-9.617	-2.145-174.231	1.00	0.00	H
ATOM	13861	CG	LYS	L	148	-9.028	-2.191-172.205	1.00	0.00	C
ATOM	13862	1HG	LYS	L	148	-9.783	-2.977-172.159	1.00	0.00	H
ATOM	13863	2HG	LYS	L	148	-8.053	-2.672-172.217	1.00	0.00	H
ATOM	13864	CD	LYS	L	148	-9.180	-1.333-170.942	1.00	0.00	C
ATOM	13865	1HD	LYS	L	148	-8.425	-0.548-170.922	1.00	0.00	H
ATOM	13866	2HD	LYS	L	148	-10.162	-0.860-170.957	1.00	0.00	H
ATOM	13867	CE	LYS	L	148	-9.080	-2.176-169.664	1.00	0.00	C
ATOM	13868	1HE	LYS	L	148	-9.380	-1.542-168.825	1.00	0.00	H
ATOM	13869	2HE	LYS	L	148	-9.774	-3.017-169.728	1.00	0.00	H
ATOM	13870	NZ	LYS	L	148	-7.703	-2.659-169.424	1.00	0.00	N
ATOM	13871	1HZ	LYS	L	148	-7.036	-1.895-169.529	1.00	0.00	H
ATOM	13872	2HZ	LYS	L	148	-7.355	-3.352-170.091	1.00	0.00	H
ATOM	13873	3HZ	LYS	L	148	-7.551	-2.999-168.488	1.00	0.00	H
ATOM	13874	N	GLY	L	149	-7.194	0.151-176.293	1.00	0.00	N
ATOM	13875	H	GLY	L	149	-6.271	0.143-175.876	1.00	0.00	H
ATOM	13876	CA	GLY	L	149	-7.343	0.564-177.695	1.00	0.00	C
ATOM	13877	1HA	GLY	L	149	-7.270	-0.323-178.323	1.00	0.00	H
ATOM	13878	2HA	GLY	L	149	-8.335	0.996-177.841	1.00	0.00	H
ATOM	13879	C	GLY	L	149	-6.332	1.581-178.227	1.00	0.00	C
ATOM	13880	O	GLY	L	149	-6.744	2.518-178.901	1.00	0.00	O
ATOM	13881	N	PHE	L	150	-5.034	1.440-177.943	1.00	0.00	N
ATOM	13882	H	PHE	L	150	-4.729	0.626-177.420	1.00	0.00	H
ATOM	13883	CA	PHE	L	150	-4.006	2.241-178.639	1.00	0.00	C

ATOM	13884	HA	PHE	L	150	-4.180	3.296-178.424	1.00	0.00	H
ATOM	13885	C	PHE	L	150	-4.118	2.032-180.160	1.00	0.00	C
ATOM	13886	O	PHE	L	150	-4.459	0.938-180.623	1.00	0.00	O
ATOM	13887	CB	PHE	L	150	-2.644	1.836-178.068	1.00	0.00	C
ATOM	13888	1HB	PHE	L	150	-2.789	1.808-177.001	1.00	0.00	H
ATOM	13889	2HB	PHE	L	150	-2.405	0.831-178.395	1.00	0.00	H
ATOM	13890	CG	PHE	L	150	-1.417	2.705-178.234	1.00	0.00	C
ATOM	13891	CD1	PHE	L	150	-0.191	2.108-178.584	1.00	0.00	C
ATOM	13892	HD1	PHE	L	150	-0.159	1.062-178.854	1.00	0.00	H
ATOM	13893	CD2	PHE	L	150	-1.428	4.031-177.772	1.00	0.00	C
ATOM	13894	HD2	PHE	L	150	-2.350	4.460-177.420	1.00	0.00	H
ATOM	13895	CE1	PHE	L	150	1.005	2.838-178.481	1.00	0.00	C
ATOM	13896	HE1	PHE	L	150	1.949	2.360-178.684	1.00	0.00	H
ATOM	13897	CE2	PHE	L	150	-0.237	4.772-177.692	1.00	0.00	C
ATOM	13898	HE2	PHE	L	150	-0.253	5.782-177.310	1.00	0.00	H
ATOM	13899	CZ	PHE	L	150	0.983	4.168-178.035	1.00	0.00	C
ATOM	13900	HZ	PHE	L	150	1.911	4.704-177.911	1.00	0.00	H
ATOM	13901	N	ALA	L	151	-3.909	3.088-180.944	1.00	0.00	N
ATOM	13902	H	ALA	L	151	-3.621	3.964-180.522	1.00	0.00	H
ATOM	13903	CA	ALA	L	151	-4.326	3.103-182.348	1.00	0.00	C
ATOM	13904	HA	ALA	L	151	-4.346	2.083-182.731	1.00	0.00	H
ATOM	13905	C	ALA	L	151	-3.369	3.898-183.244	1.00	0.00	C
ATOM	13906	O	ALA	L	151	-2.507	4.629-182.758	1.00	0.00	O
ATOM	13907	CB	ALA	L	151	-5.754	3.667-182.412	1.00	0.00	C
ATOM	13908	1HB	ALA	L	151	-6.129	3.624-183.435	1.00	0.00	H
ATOM	13909	2HB	ALA	L	151	-5.763	4.702-182.067	1.00	0.00	H
ATOM	13910	3HB	ALA	L	151	-6.413	3.077-181.774	1.00	0.00	H
ATOM	13911	N	TYR	L	152	-3.534	3.761-184.560	1.00	0.00	N
ATOM	13912	H	TYR	L	152	-4.270	3.139-184.881	1.00	0.00	H
ATOM	13913	CA	TYR	L	152	-2.796	4.505-185.588	1.00	0.00	C
ATOM	13914	HA	TYR	L	152	-2.468	5.449-185.162	1.00	0.00	H
ATOM	13915	C	TYR	L	152	-3.714	4.847-186.774	1.00	0.00	C
ATOM	13916	O	TYR	L	152	-4.667	4.104-187.019	1.00	0.00	O
ATOM	13917	CB	TYR	L	152	-1.554	3.690-186.030	1.00	0.00	C
ATOM	13918	1HB	TYR	L	152	-0.660	4.254-185.765	1.00	0.00	H
ATOM	13919	2HB	TYR	L	152	-1.504	2.757-185.467	1.00	0.00	H
ATOM	13920	CG	TYR	L	152	-1.502	3.344-187.511	1.00	0.00	C
ATOM	13921	CD1	TYR	L	152	-0.743	4.124-188.401	1.00	0.00	C
ATOM	13922	HD1	TYR	L	152	-0.160	4.952-188.017	1.00	0.00	H
ATOM	13923	CD2	TYR	L	152	-2.294	2.295-188.008	1.00	0.00	C
ATOM	13924	HD2	TYR	L	152	-2.897	1.725-187.321	1.00	0.00	H
ATOM	13925	CE1	TYR	L	152	-0.776	3.845-189.784	1.00	0.00	C
ATOM	13926	HE1	TYR	L	152	-0.182	4.423-190.471	1.00	0.00	H
ATOM	13927	CE2	TYR	L	152	-2.352	2.033-189.390	1.00	0.00	C
ATOM	13928	HE2	TYR	L	152	-2.989	1.257-189.782	1.00	0.00	H
ATOM	13929	CZ	TYR	L	152	-1.590	2.808-190.283	1.00	0.00	C
ATOM	13930	OH	TYR	L	152	-1.642	2.551-191.615	1.00	0.00	O
ATOM	13931	HH	TYR	L	152	-1.148	3.197-192.126	1.00	0.00	H
ATOM	13932	N	VAL	L	153	-3.389	5.907-187.529	1.00	0.00	N
ATOM	13933	H	VAL	L	153	-2.565	6.438-187.267	1.00	0.00	H
ATOM	13934	CA	VAL	L	153	-4.019	6.260-188.823	1.00	0.00	C
ATOM	13935	HA	VAL	L	153	-4.358	5.336-189.279	1.00	0.00	H
ATOM	13936	C	VAL	L	153	-3.026	6.908-189.807	1.00	0.00	C
ATOM	13937	O	VAL	L	153	-1.989	7.414-189.376	1.00	0.00	O
ATOM	13938	CB	VAL	L	153	-5.241	7.193-188.657	1.00	0.00	C
ATOM	13939	HB	VAL	L	153	-5.612	7.411-189.654	1.00	0.00	H
ATOM	13940	CG1	VAL	L	153	-6.407	6.557-187.899	1.00	0.00	C
ATOM	13941	1HG1	VAL	L	153	-6.144	6.391-186.855	1.00	0.00	H
ATOM	13942	2HG1	VAL	L	153	-6.657	5.613-188.371	1.00	0.00	H
ATOM	13943	3HG1	VAL	L	153	-7.277	7.212-187.951	1.00	0.00	H
ATOM	13944	CG2	VAL	L	153	-4.897	8.519-187.975	1.00	0.00	C
ATOM	13945	1HG2	VAL	L	153	-4.596	8.349-186.942	1.00	0.00	H
ATOM	13946	2HG2	VAL	L	153	-5.766	9.174-187.985	1.00	0.00	H
ATOM	13947	3HG2	VAL	L	153	-4.100	9.026-188.517	1.00	0.00	H
ATOM	13948	N	GLU	L	154	-3.324	6.924-191.116	1.00	0.00	N
ATOM	13949	H	GLU	L	154	-4.214	6.534-191.410	1.00	0.00	H
ATOM	13950	CA	GLU	L	154	-2.423	7.444-192.173	1.00	0.00	C
ATOM	13951	HA	GLU	L	154	-1.729	8.147-191.716	1.00	0.00	H
ATOM	13952	C	GLU	L	154	-3.104	8.213-193.319	1.00	0.00	C
ATOM	13953	O	GLU	L	154	-4.306	8.059-193.547	1.00	0.00	O
ATOM	13954	CB	GLU	L	154	-1.589	6.283-192.762	1.00	0.00	C
ATOM	13955	1HB	GLU	L	154	-0.757	6.688-193.337	1.00	0.00	H
ATOM	13956	2HB	GLU	L	154	-1.164	5.737-191.927	1.00	0.00	H
ATOM	13957	CG	GLU	L	154	-2.329	5.245-193.623	1.00	0.00	C
ATOM	13958	1HG	GLU	L	154	-1.675	4.377-193.733	1.00	0.00	H
ATOM	13959	2HG	GLU	L	154	-3.216	4.912-193.080	1.00	0.00	H
ATOM	13960	CD	GLU	L	154	-2.714	5.729-195.029	1.00	0.00	C

ATOM	13961	OE1	GLU	L	154	-3.900	5.569-195.388	1.00	0.00	O
ATOM	13962	OE2	GLU	L	154	-1.832	6.211-195.774	1.00	0.00	O
ATOM	13963	N	PHE	L	155	-2.292	8.944-194.099	1.00	0.00	N
ATOM	13964	H	PHE	L	155	-1.325	9.047-193.811	1.00	0.00	H
ATOM	13965	CA	PHE	L	155	-2.586	9.259-195.505	1.00	0.00	C
ATOM	13966	HA	PHE	L	155	-3.146	8.419-195.921	1.00	0.00	H
ATOM	13967	C	PHE	L	155	-1.304	9.447-196.336	1.00	0.00	C
ATOM	13968	O	PHE	L	155	-0.465	10.311-196.057	1.00	0.00	O
ATOM	13969	CB	PHE	L	155	-3.474	10.496-195.621	1.00	0.00	C
ATOM	13970	1HB	PHE	L	155	-4.166	10.482-194.785	1.00	0.00	H
ATOM	13971	2HB	PHE	L	155	-2.868	11.393-195.505	1.00	0.00	H
ATOM	13972	CG	PHE	L	155	-4.283	10.564-196.912	1.00	0.00	C
ATOM	13973	CD1	PHE	L	155	-5.589	10.041-196.940	1.00	0.00	C
ATOM	13974	HD1	PHE	L	155	-5.992	9.577-196.060	1.00	0.00	H
ATOM	13975	CD2	PHE	L	155	-3.761	11.151-198.082	1.00	0.00	C
ATOM	13976	HD2	PHE	L	155	-2.759	11.548-198.082	1.00	0.00	H
ATOM	13977	CE1	PHE	L	155	-6.382	10.131-198.095	1.00	0.00	C
ATOM	13978	HE1	PHE	L	155	-7.396	9.747-198.104	1.00	0.00	H
ATOM	13979	CE2	PHE	L	155	-4.556	11.245-199.243	1.00	0.00	C
ATOM	13980	HE2	PHE	L	155	-4.180	11.720-200.135	1.00	0.00	H
ATOM	13981	CZ	PHE	L	155	-5.868	10.740-199.247	1.00	0.00	C
ATOM	13982	HZ	PHE	L	155	-6.489	10.813-200.134	1.00	0.00	H
ATOM	13983	N	VAL	L	156	-1.159	8.629-197.383	1.00	0.00	N
ATOM	13984	H	VAL	L	156	-1.806	7.847-197.405	1.00	0.00	H
ATOM	13985	CA	VAL	L	156	0.027	8.551-198.256	1.00	0.00	C
ATOM	13986	HA	VAL	L	156	0.839	8.162-197.645	1.00	0.00	H
ATOM	13987	C	VAL	L	156	0.502	9.901-198.820	1.00	0.00	C
ATOM	13988	O	VAL	L	156	1.700	10.181-198.744	1.00	0.00	O
ATOM	13989	CB	VAL	L	156	-0.204	7.545-199.406	1.00	0.00	C
ATOM	13990	HB	VAL	L	156	-0.969	7.938-200.077	1.00	0.00	H
ATOM	13991	CG1	VAL	L	156	1.080	7.309-200.217	1.00	0.00	C
ATOM	13992	1HG1	VAL	L	156	1.402	8.235-200.693	1.00	0.00	H
ATOM	13993	2HG1	VAL	L	156	0.889	6.579-201.003	1.00	0.00	H
ATOM	13994	3HG1	VAL	L	156	1.872	6.942-199.564	1.00	0.00	H
ATOM	13995	CG2	VAL	L	156	-0.668	6.172-198.898	1.00	0.00	C
ATOM	13996	1HG2	VAL	L	156	0.022	5.793-198.144	1.00	0.00	H
ATOM	13997	2HG2	VAL	L	156	-0.734	5.465-199.724	1.00	0.00	H
ATOM	13998	3HG2	VAL	L	156	-1.660	6.251-198.452	1.00	0.00	H
ATOM	13999	N	GLU	L	157	-0.379	10.735-199.384	1.00	0.00	N
ATOM	14000	H	GLU	L	157	-1.355	10.479-199.383	1.00	0.00	H
ATOM	14001	CA	GLU	L	157	0.008	12.034-199.977	1.00	0.00	C
ATOM	14002	HA	GLU	L	157	0.821	11.839-200.678	1.00	0.00	H
ATOM	14003	C	GLU	L	157	0.574	13.023-198.942	1.00	0.00	C
ATOM	14004	O	GLU	L	157	0.205	13.003-197.768	1.00	0.00	O
ATOM	14005	CB	GLU	L	157	-1.155	12.664-200.769	1.00	0.00	C
ATOM	14006	1HB	GLU	L	157	-2.080	12.160-200.503	1.00	0.00	H
ATOM	14007	2HB	GLU	L	157	-1.269	13.715-200.500	1.00	0.00	H
ATOM	14008	CG	GLU	L	157	-0.963	12.559-202.295	1.00	0.00	C
ATOM	14009	1HG	GLU	L	157	-0.798	11.510-202.551	1.00	0.00	H
ATOM	14010	2HG	GLU	L	157	-1.892	12.877-202.773	1.00	0.00	H
ATOM	14011	CD	GLU	L	157	0.197	13.410-202.852	1.00	0.00	C
ATOM	14012	OE1	GLU	L	157	0.377	13.427-204.087	1.00	0.00	O
ATOM	14013	OE2	GLU	L	157	0.945	14.017-202.046	1.00	0.00	O
ATOM	14014	N	ILE	L	158	1.520	13.865-199.368	1.00	0.00	N
ATOM	14015	H	ILE	L	158	1.622	13.941-200.383	1.00	0.00	H
ATOM	14016	CA	ILE	L	158	2.525	14.521-198.515	1.00	0.00	C
ATOM	14017	HA	ILE	L	158	3.094	13.741-198.016	1.00	0.00	H
ATOM	14018	C	ILE	L	158	1.891	15.369-197.402	1.00	0.00	C
ATOM	14019	O	ILE	L	158	2.199	15.155-196.226	1.00	0.00	O
ATOM	14020	CB	ILE	L	158	3.532	15.318-199.388	1.00	0.00	C
ATOM	14021	HB	ILE	L	158	2.986	15.836-200.179	1.00	0.00	H
ATOM	14022	CG1	ILE	L	158	4.610	14.409-200.033	1.00	0.00	C
ATOM	14023	1HG1	ILE	L	158	5.313	15.041-200.577	1.00	0.00	H
ATOM	14024	2HG1	ILE	L	158	5.165	13.900-199.243	1.00	0.00	H
ATOM	14025	CG2	ILE	L	158	4.306	16.381-198.578	1.00	0.00	C
ATOM	14026	1HG2	ILE	L	158	3.629	17.159-198.222	1.00	0.00	H
ATOM	14027	2HG2	ILE	L	158	5.053	16.865-199.206	1.00	0.00	H
ATOM	14028	3HG2	ILE	L	158	4.798	15.918-197.721	1.00	0.00	H
ATOM	14029	CD1	ILE	L	158	4.110	13.351-201.024	1.00	0.00	C
ATOM	14030	1HD1	ILE	L	158	3.514	12.595-200.514	1.00	0.00	H
ATOM	14031	2HD1	ILE	L	158	4.966	12.858-201.483	1.00	0.00	H
ATOM	14032	3HD1	ILE	L	158	3.521	13.827-201.807	1.00	0.00	H
ATOM	14033	N	ASP	L	159	1.013	16.305-197.767	1.00	0.00	N
ATOM	14034	H	ASP	L	159	0.770	16.370-198.744	1.00	0.00	H
ATOM	14035	CA	ASP	L	159	0.445	17.305-196.850	1.00	0.00	C
ATOM	14036	HA	ASP	L	159	1.212	17.602-196.133	1.00	0.00	H
ATOM	14037	C	ASP	L	159	-0.762	16.789-196.046	1.00	0.00	C



ATOM	14038	O	ASP	L	159	-1.095	17.335-195.000	1.00	0.00	O
ATOM	14039	CB	ASP	L	159	0.057	18.545-197.671	1.00	0.00	C
ATOM	14040	1HB	ASP	L	159	0.891	18.813-198.323	1.00	0.00	H
ATOM	14041	2HB	ASP	L	159	-0.800	18.304-198.303	1.00	0.00	H
ATOM	14042	CG	ASP	L	159	-0.262	19.757-196.791	1.00	0.00	C
ATOM	14043	OD1	ASP	L	159	-1.341	20.354-196.983	1.00	0.00	O
ATOM	14044	OD2	ASP	L	159	0.618	20.112-195.975	1.00	0.00	O
ATOM	14045	N	ALA	L	160	-1.401	15.704-196.486	1.00	0.00	N
ATOM	14046	H	ALA	L	160	-1.054	15.237-197.309	1.00	0.00	H
ATOM	14047	CA	ALA	L	160	-2.620	15.186-195.866	1.00	0.00	C
ATOM	14048	HA	ALA	L	160	-3.409	15.938-195.936	1.00	0.00	H
ATOM	14049	C	ALA	L	160	-2.433	14.854-194.375	1.00	0.00	C
ATOM	14050	O	ALA	L	160	-3.102	15.431-193.516	1.00	0.00	O
ATOM	14051	CB	ALA	L	160	-3.039	13.964-196.669	1.00	0.00	C
ATOM	14052	1HB	ALA	L	160	-3.881	13.489-196.170	1.00	0.00	H
ATOM	14053	2HB	ALA	L	160	-2.213	13.256-196.719	1.00	0.00	H
ATOM	14054	3HB	ALA	L	160	-3.332	14.257-197.677	1.00	0.00	H
ATOM	14055	N	VAL	L	161	-1.437	14.021-194.044	1.00	0.00	N
ATOM	14056	H	VAL	L	161	-0.951	13.537-194.784	1.00	0.00	H
ATOM	14057	CA	VAL	L	161	-1.093	13.750-192.638	1.00	0.00	C
ATOM	14058	HA	VAL	L	161	-2.019	13.459-192.142	1.00	0.00	H
ATOM	14059	C	VAL	L	161	-0.576	14.994-191.903	1.00	0.00	C
ATOM	14060	O	VAL	L	161	-0.771	15.099-190.701	1.00	0.00	O
ATOM	14061	CB	VAL	L	161	-0.119	12.563-192.503	1.00	0.00	C
ATOM	14062	HB	VAL	L	161	-0.451	11.777-193.183	1.00	0.00	H
ATOM	14063	CG1	VAL	L	161	1.327	12.923-192.869	1.00	0.00	C
ATOM	14064	1HG1	VAL	L	161	1.760	13.572-192.106	1.00	0.00	H
ATOM	14065	2HG1	VAL	L	161	1.340	13.439-193.826	1.00	0.00	H
ATOM	14066	3HG1	VAL	L	161	1.914	12.009-192.932	1.00	0.00	H
ATOM	14067	CG2	VAL	L	161	-0.138	11.983-191.084	1.00	0.00	C
ATOM	14068	1HG2	VAL	L	161	0.184	12.727-190.355	1.00	0.00	H
ATOM	14069	2HG2	VAL	L	161	0.529	11.129-191.024	1.00	0.00	H
ATOM	14070	3HG2	VAL	L	161	-1.149	11.657-190.835	1.00	0.00	H
ATOM	14071	N	GLN	L	162	0.055	15.952-192.595	1.00	0.00	N
ATOM	14072	H	GLN	L	162	0.068	15.885-193.602	1.00	0.00	H
ATOM	14073	CA	GLN	L	162	0.528	17.205-191.986	1.00	0.00	C
ATOM	14074	HA	GLN	L	162	1.129	16.948-191.115	1.00	0.00	H
ATOM	14075	C	GLN	L	162	-0.630	18.080-191.470	1.00	0.00	C
ATOM	14076	O	GLN	L	162	-0.447	18.795-190.489	1.00	0.00	O
ATOM	14077	CB	GLN	L	162	1.443	17.944-192.981	1.00	0.00	C
ATOM	14078	1HB	GLN	L	162	2.223	17.254-193.308	1.00	0.00	H
ATOM	14079	2HB	GLN	L	162	0.870	18.251-193.852	1.00	0.00	H
ATOM	14080	CG	GLN	L	162	2.117	19.194-192.397	1.00	0.00	C
ATOM	14081	1HG	GLN	L	162	1.368	19.974-192.251	1.00	0.00	H
ATOM	14082	2HG	GLN	L	162	2.559	18.950-191.430	1.00	0.00	H
ATOM	14083	CD	GLN	L	162	3.213	19.731-193.314	1.00	0.00	C
ATOM	14084	OE1	GLN	L	162	4.398	19.683-193.013	1.00	0.00	O
ATOM	14085	NE2	GLN	L	162	2.897	20.238-194.482	1.00	0.00	N
ATOM	14086	1HE2	GLN	L	162	3.637	20.572-195.057	1.00	0.00	H
ATOM	14087	2HE2	GLN	L	162	1.926	20.235-194.827	1.00	0.00	H
ATOM	14088	N	ASN	L	163	-1.819	17.968-192.071	1.00	0.00	N
ATOM	14089	H	ASN	L	163	-1.884	17.381-192.893	1.00	0.00	H
ATOM	14090	CA	ASN	L	163	-3.062	18.525-191.532	1.00	0.00	C
ATOM	14091	HA	ASN	L	163	-2.863	19.490-191.060	1.00	0.00	H
ATOM	14092	C	ASN	L	163	-3.649	17.600-190.443	1.00	0.00	C
ATOM	14093	O	ASN	L	163	-3.890	18.039-189.321	1.00	0.00	O
ATOM	14094	CB	ASN	L	163	-4.056	18.746-192.690	1.00	0.00	C
ATOM	14095	1HB	ASN	L	163	-4.196	17.827-193.256	1.00	0.00	H
ATOM	14096	2HB	ASN	L	163	-5.021	19.021-192.265	1.00	0.00	H
ATOM	14097	CG	ASN	L	163	-3.638	19.860-193.641	1.00	0.00	C
ATOM	14098	OD1	ASN	L	163	-4.069	20.994-193.531	1.00	0.00	O
ATOM	14099	ND2	ASN	L	163	-2.779	19.575-194.593	1.00	0.00	N
ATOM	14100	1HD2	ASN	L	163	-2.503	20.294-195.255	1.00	0.00	H
ATOM	14101	2HD2	ASN	L	163	-2.348	18.667-194.657	1.00	0.00	H
ATOM	14102	N	ALA	L	164	-3.799	16.300-190.732	1.00	0.00	N
ATOM	14103	H	ALA	L	164	-3.589	15.993-191.674	1.00	0.00	H
ATOM	14104	CA	ALA	L	164	-4.428	15.325-189.826	1.00	0.00	C
ATOM	14105	HA	ALA	L	164	-5.437	15.678-189.599	1.00	0.00	H
ATOM	14106	C	ALA	L	164	-3.699	15.118-188.481	1.00	0.00	C
ATOM	14107	O	ALA	L	164	-4.299	14.663-187.508	1.00	0.00	O
ATOM	14108	CB	ALA	L	164	-4.542	13.986-190.562	1.00	0.00	C
ATOM	14109	1HB	ALA	L	164	-5.297	13.367-190.072	1.00	0.00	H
ATOM	14110	2HB	ALA	L	164	-3.587	13.464-190.543	1.00	0.00	H
ATOM	14111	3HB	ALA	L	164	-4.836	14.144-191.599	1.00	0.00	H
ATOM	14112	N	LEU	L	165	-2.396	15.421-188.408	1.00	0.00	N
ATOM	14113	H	LEU	L	165	-1.931	15.700-189.264	1.00	0.00	H
ATOM	14114	CA	LEU	L	165	-1.604	15.351-187.175	1.00	0.00	C

ATOM	14115	HA	LEU	L	165	-1.986	14.512-186.595	1.00	0.00	H
ATOM	14116	C	LEU	L	165	-1.751	16.586-186.271	1.00	0.00	C
ATOM	14117	O	LEU	L	165	-1.244	16.540-185.152	1.00	0.00	O
ATOM	14118	CB	LEU	L	165	-0.129	15.015-187.495	1.00	0.00	C
ATOM	14119	1HB	LEU	L	165	0.349	14.678-186.575	1.00	0.00	H
ATOM	14120	2HB	LEU	L	165	-0.144	14.162-188.174	1.00	0.00	H
ATOM	14121	CG	LEU	L	165	0.754	16.122-188.113	1.00	0.00	C
ATOM	14122	HG	LEU	L	165	0.174	16.706-188.825	1.00	0.00	H
ATOM	14123	CD1	LEU	L	165	1.390	17.064-187.084	1.00	0.00	C
ATOM	14124	1HD1	LEU	L	165	0.627	17.617-186.545	1.00	0.00	H
ATOM	14125	2HD1	LEU	L	165	2.023	17.792-187.590	1.00	0.00	H
ATOM	14126	3HD1	LEU	L	165	1.981	16.500-186.364	1.00	0.00	H
ATOM	14127	CD2	LEU	L	165	1.939	15.473-188.843	1.00	0.00	C
ATOM	14128	1HD2	LEU	L	165	2.532	14.888-188.140	1.00	0.00	H
ATOM	14129	2HD2	LEU	L	165	2.561	16.245-189.294	1.00	0.00	H
ATOM	14130	3HD2	LEU	L	165	1.569	14.818-189.630	1.00	0.00	H
ATOM	14131	N	LEU	L	166	-2.409	17.654-186.739	1.00	0.00	N
ATOM	14132	H	LEU	L	166	-2.846	17.579-187.652	1.00	0.00	H
ATOM	14133	CA	LEU	L	166	-2.293	19.012-186.186	1.00	0.00	C
ATOM	14134	HA	LEU	L	166	-1.718	18.965-185.261	1.00	0.00	H
ATOM	14135	C	LEU	L	166	-3.640	19.669-185.829	1.00	0.00	C
ATOM	14136	O	LEU	L	166	-3.657	20.772-185.292	1.00	0.00	O
ATOM	14137	CB	LEU	L	166	-1.513	19.841-187.231	1.00	0.00	C
ATOM	14138	1HB	LEU	L	166	-0.620	19.285-187.515	1.00	0.00	H
ATOM	14139	2HB	LEU	L	166	-2.131	19.929-188.126	1.00	0.00	H
ATOM	14140	CG	LEU	L	166	-1.069	21.259-186.818	1.00	0.00	C
ATOM	14141	HG	LEU	L	166	-1.935	21.904-186.688	1.00	0.00	H
ATOM	14142	CD1	LEU	L	166	-0.234	21.265-185.534	1.00	0.00	C
ATOM	14143	1HD1	LEU	L	166	-0.861	20.967-184.693	1.00	0.00	H
ATOM	14144	2HD1	LEU	L	166	0.131	22.272-185.336	1.00	0.00	H
ATOM	14145	3HD1	LEU	L	166	0.604	20.576-185.626	1.00	0.00	H
ATOM	14146	CD2	LEU	L	166	-0.215	21.860-187.936	1.00	0.00	C
ATOM	14147	1HD2	LEU	L	166	0.061	22.881-187.676	1.00	0.00	H
ATOM	14148	2HD2	LEU	L	166	-0.795	21.875-188.860	1.00	0.00	H
ATOM	14149	3HD2	LEU	L	166	0.681	21.260-188.087	1.00	0.00	H
ATOM	14150	N	LEU	L	167	-4.760	19.014-186.130	1.00	0.00	N
ATOM	14151	H	LEU	L	167	-4.676	18.114-186.573	1.00	0.00	H
ATOM	14152	CA	LEU	L	167	-6.099	19.606-186.067	1.00	0.00	C
ATOM	14153	HA	LEU	L	167	-6.079	20.523-185.476	1.00	0.00	H
ATOM	14154	C	LEU	L	167	-7.100	18.658-185.371	1.00	0.00	C
ATOM	14155	O	LEU	L	167	-8.198	18.442-185.848	1.00	0.00	O
ATOM	14156	CB	LEU	L	167	-6.535	19.956-187.500	1.00	0.00	C
ATOM	14157	1HB	LEU	L	167	-6.680	19.022-188.043	1.00	0.00	H
ATOM	14158	2HB	LEU	L	167	-7.485	20.469-187.385	1.00	0.00	H
ATOM	14159	CG	LEU	L	167	-5.662	20.880-188.363	1.00	0.00	C
ATOM	14160	HG	LEU	L	167	-4.631	20.527-188.373	1.00	0.00	H
ATOM	14161	CD1	LEU	L	167	-6.172	20.901-189.808	1.00	0.00	C
ATOM	14162	1HD1	LEU	L	167	-5.535	21.529-190.427	1.00	0.00	H
ATOM	14163	2HD1	LEU	L	167	-7.197	21.275-189.835	1.00	0.00	H
ATOM	14164	3HD1	LEU	L	167	-6.174	19.887-190.208	1.00	0.00	H
ATOM	14165	CD2	LEU	L	167	-5.696	22.312-187.827	1.00	0.00	C
ATOM	14166	1HD2	LEU	L	167	-5.090	22.956-188.460	1.00	0.00	H
ATOM	14167	2HD2	LEU	L	167	-5.299	22.330-186.813	1.00	0.00	H
ATOM	14168	3HD2	LEU	L	167	-6.726	22.673-187.811	1.00	0.00	H
ATOM	14169	N	ASN	L	168	-6.654	17.952-184.330	1.00	0.00	N
ATOM	14170	H	ASN	L	168	-5.728	18.177-183.995	1.00	0.00	H
ATOM	14171	CA	ASN	L	168	-7.127	16.586-184.065	1.00	0.00	C
ATOM	14172	HA	ASN	L	168	-8.127	16.449-184.487	1.00	0.00	H
ATOM	14173	C	ASN	L	168	-7.209	16.153-182.587	1.00	0.00	C
ATOM	14174	O	ASN	L	168	-7.862	15.160-182.276	1.00	0.00	O
ATOM	14175	CB	ASN	L	168	-6.132	15.661-184.798	1.00	0.00	C
ATOM	14176	1HB	ASN	L	168	-6.442	14.629-184.652	1.00	0.00	H
ATOM	14177	2HB	ASN	L	168	-6.171	15.867-185.867	1.00	0.00	H
ATOM	14178	CG	ASN	L	168	-4.686	15.796-184.325	1.00	0.00	C
ATOM	14179	OD1	ASN	L	168	-4.269	16.721-183.648	1.00	0.00	O
ATOM	14180	ND2	ASN	L	168	-3.827	14.891-184.707	1.00	0.00	N
ATOM	14181	1HD2	ASN	L	168	-2.875	15.135-184.487	1.00	0.00	H
ATOM	14182	2HD2	ASN	L	168	-4.095	14.315-185.495	1.00	0.00	H
ATOM	14183	N	GLU	L	169	-6.484	16.795-181.671	1.00	0.00	N
ATOM	14184	H	GLU	L	169	-5.981	17.620-181.963	1.00	0.00	H
ATOM	14185	CA	GLU	L	169	-6.048	16.131-180.432	1.00	0.00	C
ATOM	14186	HA	GLU	L	169	-6.230	15.063-180.545	1.00	0.00	H
ATOM	14187	C	GLU	L	169	-6.831	16.511-179.166	1.00	0.00	C
ATOM	14188	O	GLU	L	169	-6.256	16.520-178.077	1.00	0.00	O
ATOM	14189	CB	GLU	L	169	-4.528	16.265-180.258	1.00	0.00	C
ATOM	14190	1HB	GLU	L	169	-4.247	15.612-179.432	1.00	0.00	H
ATOM	14191	2HB	GLU	L	169	-4.025	15.873-181.142	1.00	0.00	H

ATOM	14192	CG	GLU	L	169	-4.018	17.695-179.980	1.00	0.00	C
ATOM	14193	1HG	GLU	L	169	-3.870	18.215-180.928	1.00	0.00	H
ATOM	14194	2HG	GLU	L	169	-4.757	18.251-179.403	1.00	0.00	H
ATOM	14195	CD	GLU	L	169	-2.704	17.659-179.191	1.00	0.00	C
ATOM	14196	OE1	GLU	L	169	-1.924	16.697-179.359	1.00	0.00	O
ATOM	14197	OE2	GLU	L	169	-2.444	18.529-178.328	1.00	0.00	O
ATOM	14198	N	THR	L	170	-8.126	16.812-179.284	1.00	0.00	N
ATOM	14199	H	THR	L	170	-8.517	16.859-180.214	1.00	0.00	H
ATOM	14200	CA	THR	L	170	-8.927	17.320-178.147	1.00	0.00	C
ATOM	14201	HA	THR	L	170	-8.395	17.104-177.223	1.00	0.00	H
ATOM	14202	C	THR	L	170	-10.290	16.628-177.988	1.00	0.00	C
ATOM	14203	O	THR	L	170	-10.806	16.589-176.872	1.00	0.00	O
ATOM	14204	CB	THR	L	170	-9.056	18.858-178.214	1.00	0.00	C
ATOM	14205	HB	THR	L	170	-9.787	19.119-178.980	1.00	0.00	H
ATOM	14206	OG1	THR	L	170	-7.815	19.441-178.563	1.00	0.00	O
ATOM	14207	HG1	THR	L	170	-7.309	19.618-177.745	1.00	0.00	H
ATOM	14208	CG2	THR	L	170	-9.465	19.495-176.886	1.00	0.00	C
ATOM	14209	1HG2	THR	L	170	-10.476	19.189-176.620	1.00	0.00	H
ATOM	14210	2HG2	THR	L	170	-9.453	20.582-176.985	1.00	0.00	H
ATOM	14211	3HG2	THR	L	170	-8.776	19.202-176.094	1.00	0.00	H
ATOM	14212	N	GLU	L	171	-10.831	15.965-179.023	1.00	0.00	N
ATOM	14213	H	GLU	L	171	-10.402	16.013-179.934	1.00	0.00	H
ATOM	14214	CA	GLU	L	171	-12.110	15.239-178.926	1.00	0.00	C
ATOM	14215	HA	GLU	L	171	-12.228	14.898-177.897	1.00	0.00	H
ATOM	14216	C	GLU	L	171	-12.167	13.998-179.832	1.00	0.00	C
ATOM	14217	O	GLU	L	171	-12.025	14.073-181.052	1.00	0.00	O
ATOM	14218	CB	GLU	L	171	-13.275	16.200-179.221	1.00	0.00	C
ATOM	14219	1HB	GLU	L	171	-13.048	17.156-178.748	1.00	0.00	H
ATOM	14220	2HB	GLU	L	171	-13.371	16.373-180.294	1.00	0.00	H
ATOM	14221	CG	GLU	L	171	-14.610	15.718-178.632	1.00	0.00	C
ATOM	14222	1HG	GLU	L	171	-14.447	15.356-177.613	1.00	0.00	H
ATOM	14223	2HG	GLU	L	171	-15.265	16.580-178.554	1.00	0.00	H
ATOM	14224	CD	GLU	L	171	-15.326	14.644-179.459	1.00	0.00	C
ATOM	14225	OE1	GLU	L	171	-15.958	14.983-180.475	1.00	0.00	O
ATOM	14226	OE2	GLU	L	171	-15.315	13.459-179.036	1.00	0.00	O
ATOM	14227	N	LEU	L	172	-12.391	12.834-179.218	1.00	0.00	N
ATOM	14228	H	LEU	L	172	-12.465	12.843-178.207	1.00	0.00	H
ATOM	14229	CA	LEU	L	172	-12.702	11.582-179.905	1.00	0.00	C
ATOM	14230	HA	LEU	L	172	-13.125	11.815-180.881	1.00	0.00	H
ATOM	14231	C	LEU	L	172	-13.726	10.797-179.073	1.00	0.00	C
ATOM	14232	O	LEU	L	172	-13.499	10.551-177.882	1.00	0.00	O
ATOM	14233	CB	LEU	L	172	-11.396	10.777-180.073	1.00	0.00	C
ATOM	14234	1HB	LEU	L	172	-10.566	11.483-180.127	1.00	0.00	H
ATOM	14235	2HB	LEU	L	172	-11.247	10.188-179.169	1.00	0.00	H
ATOM	14236	CG	LEU	L	172	-11.278	9.837-181.290	1.00	0.00	C
ATOM	14237	HG	LEU	L	172	-10.504	9.101-181.075	1.00	0.00	H
ATOM	14238	CD1	LEU	L	172	-12.545	9.050-181.613	1.00	0.00	C
ATOM	14239	1HD1	LEU	L	172	-13.325	9.725-181.955	1.00	0.00	H
ATOM	14240	2HD1	LEU	L	172	-12.878	8.523-180.724	1.00	0.00	H
ATOM	14241	3HD1	LEU	L	172	-12.347	8.325-182.397	1.00	0.00	H
ATOM	14242	CD2	LEU	L	172	-10.827	10.621-182.516	1.00	0.00	C
ATOM	14243	1HD2	LEU	L	172	-10.787	9.983-183.396	1.00	0.00	H
ATOM	14244	2HD2	LEU	L	172	-9.838	11.044-182.345	1.00	0.00	H
ATOM	14245	3HD2	LEU	L	172	-11.513	11.451-182.682	1.00	0.00	H
ATOM	14246	N	HIS	L	173	-14.817	10.321-179.687	1.00	0.00	N
ATOM	14247	H	HIS	L	173	-14.990	10.620-180.642	1.00	0.00	H
ATOM	14248	CA	HIS	L	173	-15.819	9.458-179.034	1.00	0.00	C
ATOM	14249	HA	HIS	L	173	-16.642	9.340-179.739	1.00	0.00	H
ATOM	14250	C	HIS	L	173	-16.433	10.082-177.751	1.00	0.00	C
ATOM	14251	O	HIS	L	173	-17.026	9.386-176.925	1.00	0.00	O
ATOM	14252	CB	HIS	L	173	-15.179	8.060-178.830	1.00	0.00	C
ATOM	14253	1HB	HIS	L	173	-14.858	7.699-179.807	1.00	0.00	H
ATOM	14254	2HB	HIS	L	173	-14.289	8.157-178.209	1.00	0.00	H
ATOM	14255	CG	HIS	L	173	-16.043	6.980-178.223	1.00	0.00	C
ATOM	14256	ND1	HIS	L	173	-17.058	6.305-178.847	1.00	0.00	N
ATOM	14257	HD1	HIS	L	173	-17.292	6.397-179.846	1.00	0.00	H
ATOM	14258	CD2	HIS	L	173	-15.892	6.408-176.992	1.00	0.00	C
ATOM	14259	HD2	HIS	L	173	-15.138	6.683-176.270	1.00	0.00	H
ATOM	14260	CE1	HIS	L	173	-17.517	5.361-178.015	1.00	0.00	C
ATOM	14261	HE1	HIS	L	173	-18.263	4.625-178.283	1.00	0.00	H
ATOM	14262	NE2	HIS	L	173	-16.882	5.421-176.828	1.00	0.00	N
ATOM	14263	N	GLY	L	174	-16.301	11.387-177.525	1.00	0.00	N
ATOM	14264	H	GLY	L	174	-15.847	11.964-178.241	1.00	0.00	H
ATOM	14265	CA	GLY	L	174	-16.761	12.098-176.334	1.00	0.00	C
ATOM	14266	1HA	GLY	L	174	-17.035	13.069-176.690	1.00	0.00	H
ATOM	14267	2HA	GLY	L	174	-17.625	11.609-175.886	1.00	0.00	H
ATOM	14268	C	GLY	L	174	-15.718	12.374-175.258	1.00	0.00	C

ATOM	14269	O	GLY	L	174	-16.092	12.719-174.136	1.00	0.00	O
ATOM	14270	N	ARG	L	175	-14.438	12.123-175.539	1.00	0.00	N
ATOM	14271	H	ARG	L	175	-14.196	11.894-176.502	1.00	0.00	H
ATOM	14272	CA	ARG	L	175	-13.355	12.102-174.546	1.00	0.00	C
ATOM	14273	HA	ARG	L	175	-13.658	12.669-173.664	1.00	0.00	H
ATOM	14274	C	ARG	L	175	-12.088	12.769-175.094	1.00	0.00	C
ATOM	14275	O	ARG	L	175	-11.898	12.853-176.304	1.00	0.00	O
ATOM	14276	CB	ARG	L	175	-13.049	10.639-174.156	1.00	0.00	C
ATOM	14277	1HB	ARG	L	175	-12.841	10.061-175.060	1.00	0.00	H
ATOM	14278	2HB	ARG	L	175	-12.130	10.640-173.568	1.00	0.00	H
ATOM	14279	CG	ARG	L	175	-14.108	9.900-173.312	1.00	0.00	C
ATOM	14280	1HG	ARG	L	175	-13.604	9.035-172.879	1.00	0.00	H
ATOM	14281	2HG	ARG	L	175	-14.426	10.538-172.487	1.00	0.00	H
ATOM	14282	CD	ARG	L	175	-15.352	9.397-174.072	1.00	0.00	C
ATOM	14283	1HD	ARG	L	175	-16.153	10.130-173.978	1.00	0.00	H
ATOM	14284	2HD	ARG	L	175	-15.095	9.286-175.128	1.00	0.00	H
ATOM	14285	NE	ARG	L	175	-15.808	8.092-173.549	1.00	0.00	N
ATOM	14286	HE	ARG	L	175	-15.160	7.615-172.923	1.00	0.00	H
ATOM	14287	CZ	ARG	L	175	-16.738	7.313-174.064	1.00	0.00	C
ATOM	14288	NH1	ARG	L	175	-17.621	7.719-174.922	1.00	0.00	N
ATOM	14289	1HH1	ARG	L	175	-17.448	8.625-175.352	1.00	0.00	H
ATOM	14290	2HH1	ARG	L	175	-17.997	7.025-175.542	1.00	0.00	H
ATOM	14291	NH2	ARG	L	175	-16.751	6.043-173.800	1.00	0.00	N
ATOM	14292	1HH2	ARG	L	175	-15.908	5.681-173.347	1.00	0.00	H
ATOM	14293	2HH2	ARG	L	175	-17.134	5.460-174.522	1.00	0.00	H
ATOM	14294	N	GLN	L	176	-11.189	13.169-174.189	1.00	0.00	N
ATOM	14295	H	GLN	L	176	-11.429	13.116-173.215	1.00	0.00	H
ATOM	14296	CA	GLN	L	176	-9.829	13.585-174.548	1.00	0.00	C
ATOM	14297	HA	GLN	L	176	-9.912	14.348-175.327	1.00	0.00	H
ATOM	14298	C	GLN	L	176	-9.008	12.411-175.110	1.00	0.00	C
ATOM	14299	O	GLN	L	176	-9.179	11.265-174.681	1.00	0.00	O
ATOM	14300	CB	GLN	L	176	-9.110	14.228-173.334	1.00	0.00	C
ATOM	14301	1HB	GLN	L	176	-8.298	14.847-173.718	1.00	0.00	H
ATOM	14302	2HB	GLN	L	176	-9.808	14.891-172.821	1.00	0.00	H
ATOM	14303	CG	GLN	L	176	-8.498	13.235-172.315	1.00	0.00	C
ATOM	14304	1HG	GLN	L	176	-9.279	12.588-171.918	1.00	0.00	H
ATOM	14305	2HG	GLN	L	176	-7.763	12.619-172.828	1.00	0.00	H
ATOM	14306	CD	GLN	L	176	-7.778	13.910-171.143	1.00	0.00	C
ATOM	14307	OE1	GLN	L	176	-8.186	14.940-170.645	1.00	0.00	O
ATOM	14308	NE2	GLN	L	176	-6.697	13.346-170.637	1.00	0.00	N
ATOM	14309	1HE2	GLN	L	176	-6.220	13.855-169.899	1.00	0.00	H
ATOM	14310	2HE2	GLN	L	176	-6.325	12.469-170.976	1.00	0.00	H
ATOM	14311	N	LEU	L	177	-8.024	12.717-175.959	1.00	0.00	N
ATOM	14312	H	LEU	L	177	-7.950	13.676-176.279	1.00	0.00	H
ATOM	14313	CA	LEU	L	177	-6.888	11.845-176.275	1.00	0.00	C
ATOM	14314	HA	LEU	L	177	-6.597	11.352-175.355	1.00	0.00	H
ATOM	14315	C	LEU	L	177	-5.672	12.669-176.737	1.00	0.00	C
ATOM	14316	O	LEU	L	177	-5.798	13.876-176.900	1.00	0.00	O
ATOM	14317	CB	LEU	L	177	-7.303	10.746-177.270	1.00	0.00	C
ATOM	14318	1HB	LEU	L	177	-6.424	10.158-177.517	1.00	0.00	H
ATOM	14319	2HB	LEU	L	177	-7.992	10.081-176.748	1.00	0.00	H
ATOM	14320	CG	LEU	L	177	-7.974	11.166-178.589	1.00	0.00	C
ATOM	14321	HG	LEU	L	177	-8.897	11.708-178.384	1.00	0.00	H
ATOM	14322	CD1	LEU	L	177	-7.089	12.021-179.500	1.00	0.00	C
ATOM	14323	1HD1	LEU	L	177	-6.114	11.560-179.637	1.00	0.00	H
ATOM	14324	2HD1	LEU	L	177	-6.975	13.015-179.070	1.00	0.00	H
ATOM	14325	3HD1	LEU	L	177	-7.574	12.154-180.469	1.00	0.00	H
ATOM	14326	CD2	LEU	L	177	-8.316	9.866-179.319	1.00	0.00	C
ATOM	14327	1HD2	LEU	L	177	-7.470	9.192-179.316	1.00	0.00	H
ATOM	14328	2HD2	LEU	L	177	-8.594	10.084-180.348	1.00	0.00	H
ATOM	14329	3HD2	LEU	L	177	-9.143	9.376-178.808	1.00	0.00	H
ATOM	14330	N	LYS	L	178	-4.498	12.052-176.940	1.00	0.00	N
ATOM	14331	H	LYS	L	178	-4.463	11.044-176.817	1.00	0.00	H
ATOM	14332	CA	LYS	L	178	-3.290	12.737-177.462	1.00	0.00	C
ATOM	14333	HA	LYS	L	178	-3.623	13.580-178.068	1.00	0.00	H
ATOM	14334	C	LYS	L	178	-2.494	11.851-178.436	1.00	0.00	C
ATOM	14335	O	LYS	L	178	-2.715	10.640-178.526	1.00	0.00	O
ATOM	14336	CB	LYS	L	178	-2.420	13.291-176.302	1.00	0.00	C
ATOM	14337	1HB	LYS	L	178	-2.202	12.475-175.610	1.00	0.00	H
ATOM	14338	2HB	LYS	L	178	-1.467	13.638-176.704	1.00	0.00	H
ATOM	14339	CG	LYS	L	178	-3.032	14.463-175.495	1.00	0.00	C
ATOM	14340	1HG	LYS	L	178	-3.983	14.150-175.065	1.00	0.00	H
ATOM	14341	2HG	LYS	L	178	-2.369	14.695-174.663	1.00	0.00	H
ATOM	14342	CD	LYS	L	178	-3.236	15.748-176.324	1.00	0.00	C
ATOM	14343	1HD	LYS	L	178	-2.264	16.138-176.631	1.00	0.00	H
ATOM	14344	2HD	LYS	L	178	-3.805	15.507-177.217	1.00	0.00	H
ATOM	14345	CE	LYS	L	178	-4.007	16.844-175.573	1.00	0.00	C

ATOM	14346	1HE	LYS	L	178	-4.889	16.396-175.107	1.00	0.00	H
ATOM	14347	2HE	LYS	L	178	-3.371	17.269-174.794	1.00	0.00	H
ATOM	14348	NZ	LYS	L	178	-4.454	17.901-176.512	1.00	0.00	N
ATOM	14349	1HZ	LYS	L	178	-5.117	17.519-177.184	1.00	0.00	H
ATOM	14350	2HZ	LYS	L	178	-3.692	18.311-177.051	1.00	0.00	H
ATOM	14351	3HZ	LYS	L	178	-4.993	18.666-176.095	1.00	0.00	H
ATOM	14352	N	VAL	L	179	-1.592	12.472-179.205	1.00	0.00	N
ATOM	14353	H	VAL	L	179	-1.442	13.453-179.017	1.00	0.00	H
ATOM	14354	CA	VAL	L	179	-1.121	11.972-180.519	1.00	0.00	C
ATOM	14355	HA	VAL	L	179	-1.377	10.918-180.620	1.00	0.00	H
ATOM	14356	C	VAL	L	179	0.405	12.111-180.690	1.00	0.00	C
ATOM	14357	O	VAL	L	179	1.016	13.013-180.119	1.00	0.00	O
ATOM	14358	CB	VAL	L	179	-1.856	12.759-181.639	1.00	0.00	C
ATOM	14359	HB	VAL	L	179	-1.590	13.813-181.556	1.00	0.00	H
ATOM	14360	CG1	VAL	L	179	-1.487	12.287-183.051	1.00	0.00	C
ATOM	14361	1HG1	VAL	L	179	-1.654	11.214-183.139	1.00	0.00	H
ATOM	14362	2HG1	VAL	L	179	-0.451	12.527-183.280	1.00	0.00	H
ATOM	14363	3HG1	VAL	L	179	-2.104	12.807-183.784	1.00	0.00	H
ATOM	14364	CG2	VAL	L	179	-3.386	12.645-181.525	1.00	0.00	C
ATOM	14365	1HG2	VAL	L	179	-3.743	13.110-180.607	1.00	0.00	H
ATOM	14366	2HG2	VAL	L	179	-3.691	11.601-181.550	1.00	0.00	H
ATOM	14367	3HG2	VAL	L	179	-3.863	13.174-182.351	1.00	0.00	H
ATOM	14368	N	SER	L	180	1.029	11.264-181.517	1.00	0.00	N
ATOM	14369	H	SER	L	180	0.475	10.514-181.925	1.00	0.00	H
ATOM	14370	CA	SER	L	180	2.408	11.429-182.024	1.00	0.00	C
ATOM	14371	HA	SER	L	180	2.635	12.493-182.097	1.00	0.00	H
ATOM	14372	C	SER	L	180	2.572	10.821-183.429	1.00	0.00	C
ATOM	14373	O	SER	L	180	1.730	10.045-183.863	1.00	0.00	O
ATOM	14374	CB	SER	L	180	3.408	10.774-181.061	1.00	0.00	C
ATOM	14375	1HB	SER	L	180	2.873	10.213-180.293	1.00	0.00	H
ATOM	14376	2HB	SER	L	180	4.056	10.086-181.605	1.00	0.00	H
ATOM	14377	OG	SER	L	180	4.218	11.759-180.450	1.00	0.00	O
ATOM	14378	HG	SER	L	180	4.663	11.356-179.701	1.00	0.00	H
ATOM	14379	N	ALA	L	181	3.646	11.143-184.158	1.00	0.00	N
ATOM	14380	H	ALA	L	181	4.325	11.768-183.756	1.00	0.00	H
ATOM	14381	CA	ALA	L	181	3.941	10.552-185.478	1.00	0.00	C
ATOM	14382	HA	ALA	L	181	3.042	10.587-186.091	1.00	0.00	H
ATOM	14383	C	ALA	L	181	4.397	9.074-185.400	1.00	0.00	C
ATOM	14384	O	ALA	L	181	4.917	8.647-184.366	1.00	0.00	O
ATOM	14385	CB	ALA	L	181	5.006	11.419-186.160	1.00	0.00	C
ATOM	14386	1HB	ALA	L	181	4.652	12.449-186.235	1.00	0.00	H
ATOM	14387	2HB	ALA	L	181	5.196	11.042-187.165	1.00	0.00	H
ATOM	14388	3HB	ALA	L	181	5.933	11.394-185.585	1.00	0.00	H
ATOM	14389	N	LYS	L	182	4.279	8.308-186.500	1.00	0.00	N
ATOM	14390	H	LYS	L	182	3.841	8.708-187.328	1.00	0.00	H
ATOM	14391	CA	LYS	L	182	4.737	6.903-186.592	1.00	0.00	C
ATOM	14392	HA	LYS	L	182	5.481	6.735-185.814	1.00	0.00	H
ATOM	14393	C	LYS	L	182	5.453	6.578-187.903	1.00	0.00	C
ATOM	14394	O	LYS	L	182	5.021	7.029-188.984	1.00	0.00	O
ATOM	14395	OXT	LYS	L	182	6.355	5.712-187.885	1.00	0.00	O
ATOM	14396	CB	LYS	L	182	3.549	5.947-186.349	1.00	0.00	C
ATOM	14397	1HB	LYS	L	182	2.971	6.304-185.498	1.00	0.00	H
ATOM	14398	2HB	LYS	L	182	2.893	5.947-187.221	1.00	0.00	H
ATOM	14399	CG	LYS	L	182	4.032	4.513-186.057	1.00	0.00	C
ATOM	14400	1HG	LYS	L	182	4.482	4.094-186.958	1.00	0.00	H
ATOM	14401	2HG	LYS	L	182	4.789	4.549-185.272	1.00	0.00	H
ATOM	14402	CD	LYS	L	182	2.901	3.584-185.600	1.00	0.00	C
ATOM	14403	1HD	LYS	L	182	2.456	3.987-184.692	1.00	0.00	H
ATOM	14404	2HD	LYS	L	182	2.136	3.532-186.375	1.00	0.00	H
ATOM	14405	CE	LYS	L	182	3.463	2.187-185.307	1.00	0.00	C
ATOM	14406	1HE	LYS	L	182	3.967	1.811-186.202	1.00	0.00	H
ATOM	14407	2HE	LYS	L	182	4.204	2.271-184.506	1.00	0.00	H
ATOM	14408	NZ	LYS	L	182	2.393	1.249-184.900	1.00	0.00	N
ATOM	14409	1HZ	LYS	L	182	1.701	1.164-185.640	1.00	0.00	H
ATOM	14410	2HZ	LYS	L	182	1.909	1.609-184.081	1.00	0.00	H
ATOM	14411	3HZ	LYS	L	182	2.771	0.324-184.694	1.00	0.00	H
TER	14412		LYS	L	182					
ATOM	14413	N	ASP	M	106	-3.281	-3.997-208.684	1.00	0.00	N
ATOM	14414	1H	ASP	M	106	-2.651	-4.786-208.645	1.00	0.00	H
ATOM	14415	2H	ASP	M	106	-4.096	-4.213-208.114	1.00	0.00	H
ATOM	14416	3H	ASP	M	106	-2.861	-3.191-208.225	1.00	0.00	H
ATOM	14417	CA	ASP	M	106	-3.690	-3.707-210.068	1.00	0.00	C
ATOM	14418	HA	ASP	M	106	-2.796	-3.453-210.636	1.00	0.00	H
ATOM	14419	C	ASP	M	106	-4.618	-2.499-210.198	1.00	0.00	C
ATOM	14420	O	ASP	M	106	-4.470	-1.824-211.208	1.00	0.00	O
ATOM	14421	CB	ASP	M	106	-4.328	-4.935-210.734	1.00	0.00	C
ATOM	14422	1HB	ASP	M	106	-4.583	-4.685-211.766	1.00	0.00	H

ATOM	14423	2HB	ASP	M	106	-3.616	-5.757-210.769	1.00	0.00	H
ATOM	14424	CG	ASP	M	106	-5.582	-5.368-209.982	1.00	0.00	C
ATOM	14425	OD1	ASP	M	106	-5.443	-5.787-208.810	1.00	0.00	O
ATOM	14426	OD2	ASP	M	106	-6.681	-5.164-210.522	1.00	0.00	O
ATOM	14427	N	SER	M	107	-5.576	-2.278-209.275	1.00	0.00	N
ATOM	14428	H	SER	M	107	-5.506	-2.820-208.412	1.00	0.00	H
ATOM	14429	CA	SER	M	107	-6.656	-1.247-209.232	1.00	0.00	C
ATOM	14430	HA	SER	M	107	-6.546	-0.743-208.271	1.00	0.00	H
ATOM	14431	C	SER	M	107	-8.083	-1.834-209.226	1.00	0.00	C
ATOM	14432	O	SER	M	107	-9.068	-1.099-209.098	1.00	0.00	O
ATOM	14433	CB	SER	M	107	-6.579	-0.139-210.298	1.00	0.00	C
ATOM	14434	1HB	SER	M	107	-7.337	0.617-210.088	1.00	0.00	H
ATOM	14435	2HB	SER	M	107	-5.600	0.343-210.260	1.00	0.00	H
ATOM	14436	OG	SER	M	107	-6.803	-0.673-211.588	1.00	0.00	O
ATOM	14437	HG	SER	M	107	-5.941	-1.065-211.825	1.00	0.00	H
ATOM	14438	N	ARG	M	108	-8.243	-3.161-209.350	1.00	0.00	N
ATOM	14439	H	ARG	M	108	-7.427	-3.719-209.600	1.00	0.00	H
ATOM	14440	CA	ARG	M	108	-9.532	-3.880-209.256	1.00	0.00	C
ATOM	14441	HA	ARG	M	108	-10.331	-3.158-209.134	1.00	0.00	H
ATOM	14442	C	ARG	M	108	-9.630	-4.771-208.021	1.00	0.00	C
ATOM	14443	O	ARG	M	108	-10.627	-5.485-207.871	1.00	0.00	O
ATOM	14444	CB	ARG	M	108	-9.796	-4.705-210.533	1.00	0.00	C
ATOM	14445	1HB	ARG	M	108	-9.147	-5.581-210.537	1.00	0.00	H
ATOM	14446	2HB	ARG	M	108	-10.820	-5.080-210.493	1.00	0.00	H
ATOM	14447	CG	ARG	M	108	-9.604	-3.952-211.863	1.00	0.00	C
ATOM	14448	1HG	ARG	M	108	-8.541	-3.772-212.028	1.00	0.00	H
ATOM	14449	2HG	ARG	M	108	-9.959	-4.594-212.670	1.00	0.00	H
ATOM	14450	CD	ARG	M	108	-10.342	-2.609-211.941	1.00	0.00	C
ATOM	14451	1HD	ARG	M	108	-9.805	-1.873-211.345	1.00	0.00	H
ATOM	14452	2HD	ARG	M	108	-10.321	-2.260-212.974	1.00	0.00	H
ATOM	14453	NE	ARG	M	108	-11.742	-2.735-211.495	1.00	0.00	N
ATOM	14454	HE	ARG	M	108	-12.319	-3.391-212.006	1.00	0.00	H
ATOM	14455	CZ	ARG	M	108	-12.350	-2.071-210.534	1.00	0.00	C
ATOM	14456	NH1	ARG	M	108	-11.806	-1.091-209.869	1.00	0.00	N
ATOM	14457	1HH1	ARG	M	108	-10.803	-0.927-209.941	1.00	0.00	H
ATOM	14458	2HH1	ARG	M	108	-12.305	-0.622-209.138	1.00	0.00	H
ATOM	14459	NH2	ARG	M	108	-13.563	-2.401-210.217	1.00	0.00	N
ATOM	14460	1HH2	ARG	M	108	-13.977	-3.257-210.572	1.00	0.00	H
ATOM	14461	2HH2	ARG	M	108	-14.133	-1.767-209.675	1.00	0.00	H
ATOM	14462	N	SER	M	109	-8.631	-4.723-207.139	1.00	0.00	N
ATOM	14463	H	SER	M	109	-7.867	-4.080-207.300	1.00	0.00	H
ATOM	14464	CA	SER	M	109	-8.524	-5.593-205.974	1.00	0.00	C
ATOM	14465	HA	SER	M	109	-9.504	-6.024-205.795	1.00	0.00	H
ATOM	14466	C	SER	M	109	-8.163	-4.851-204.682	1.00	0.00	C
ATOM	14467	O	SER	M	109	-7.793	-3.677-204.692	1.00	0.00	O
ATOM	14468	CB	SER	M	109	-7.565	-6.753-206.286	1.00	0.00	C
ATOM	14469	1HB	SER	M	109	-7.660	-7.515-205.516	1.00	0.00	H
ATOM	14470	2HB	SER	M	109	-7.840	-7.193-207.244	1.00	0.00	H
ATOM	14471	OG	SER	M	109	-6.210	-6.381-206.349	1.00	0.00	O
ATOM	14472	HG	SER	M	109	-6.030	-5.984-207.233	1.00	0.00	H
ATOM	14473	N	ILE	M	110	-8.338	-5.541-203.553	1.00	0.00	N
ATOM	14474	H	ILE	M	110	-8.700	-6.484-203.635	1.00	0.00	H
ATOM	14475	CA	ILE	M	110	-8.105	-5.024-202.199	1.00	0.00	C
ATOM	14476	HA	ILE	M	110	-7.444	-4.160-202.276	1.00	0.00	H
ATOM	14477	C	ILE	M	110	-7.378	-6.068-201.344	1.00	0.00	C
ATOM	14478	O	ILE	M	110	-7.735	-7.247-201.351	1.00	0.00	O
ATOM	14479	CB	ILE	M	110	-9.419	-4.547-201.525	1.00	0.00	C
ATOM	14480	HB	ILE	M	110	-9.168	-4.234-200.510	1.00	0.00	H
ATOM	14481	CG1	ILE	M	110	-10.497	-5.651-201.417	1.00	0.00	C
ATOM	14482	1HG1	ILE	M	110	-10.747	-6.009-202.416	1.00	0.00	H
ATOM	14483	2HG1	ILE	M	110	-10.092	-6.481-200.842	1.00	0.00	H
ATOM	14484	CG2	ILE	M	110	-9.974	-3.313-202.254	1.00	0.00	C
ATOM	14485	1HG2	ILE	M	110	-10.730	-2.834-201.638	1.00	0.00	H
ATOM	14486	2HG2	ILE	M	110	-10.404	-3.593-203.215	1.00	0.00	H
ATOM	14487	3HG2	ILE	M	110	-9.181	-2.588-202.422	1.00	0.00	H
ATOM	14488	CD1	ILE	M	110	-11.797	-5.219-200.725	1.00	0.00	C
ATOM	14489	1HD1	ILE	M	110	-11.571	-4.762-199.761	1.00	0.00	H
ATOM	14490	2HD1	ILE	M	110	-12.428	-6.094-200.564	1.00	0.00	H
ATOM	14491	3HD1	ILE	M	110	-12.341	-4.512-201.351	1.00	0.00	H
ATOM	14492	N	TYR	M	111	-6.341	-5.620-200.639	1.00	0.00	N
ATOM	14493	H	TYR	M	111	-6.206	-4.614-200.663	1.00	0.00	H
ATOM	14494	CA	TYR	M	111	-5.549	-6.332-199.634	1.00	0.00	C
ATOM	14495	HA	TYR	M	111	-5.313	-7.334-199.989	1.00	0.00	H
ATOM	14496	C	TYR	M	111	-6.289	-6.450-198.289	1.00	0.00	C
ATOM	14497	O	TYR	M	111	-7.111	-5.603-197.943	1.00	0.00	O
ATOM	14498	CB	TYR	M	111	-4.243	-5.536-199.451	1.00	0.00	C
ATOM	14499	1HB	TYR	M	111	-3.645	-5.631-200.358	1.00	0.00	H

ATOM	14500	2HB	TYR	M	111	-4.489	-4.479-199.347	1.00	0.00	H
ATOM	14501	CG	TYR	M	111	-3.395	-5.930-198.254	1.00	0.00	C
ATOM	14502	CD1	TYR	M	111	-3.610	-5.316-197.003	1.00	0.00	C
ATOM	14503	HD1	TYR	M	111	-4.366	-4.551-196.896	1.00	0.00	H
ATOM	14504	CD2	TYR	M	111	-2.378	-6.891-198.395	1.00	0.00	C
ATOM	14505	HD2	TYR	M	111	-2.177	-7.329-199.359	1.00	0.00	H
ATOM	14506	CE1	TYR	M	111	-2.823	-5.675-195.893	1.00	0.00	C
ATOM	14507	HE1	TYR	M	111	-2.957	-5.180-194.945	1.00	0.00	H
ATOM	14508	CE2	TYR	M	111	-1.579	-7.240-197.289	1.00	0.00	C
ATOM	14509	HE2	TYR	M	111	-0.765	-7.940-197.405	1.00	0.00	H
ATOM	14510	CZ	TYR	M	111	-1.808	-6.643-196.034	1.00	0.00	C
ATOM	14511	OH	TYR	M	111	-1.026	-6.976-194.975	1.00	0.00	O
ATOM	14512	HH	TYR	M	111	-0.240	-7.449-195.280	1.00	0.00	H
ATOM	14513	N	VAL	M	112	-5.935	-7.464-197.493	1.00	0.00	N
ATOM	14514	H	VAL	M	112	-5.255	-8.124-197.855	1.00	0.00	H
ATOM	14515	CA	VAL	M	112	-6.455	-7.725-196.143	1.00	0.00	C
ATOM	14516	HA	VAL	M	112	-6.898	-6.811-195.748	1.00	0.00	H
ATOM	14517	C	VAL	M	112	-5.303	-8.158-195.224	1.00	0.00	C
ATOM	14518	O	VAL	M	112	-4.585	-9.106-195.552	1.00	0.00	O
ATOM	14519	CB	VAL	M	112	-7.535	-8.828-196.177	1.00	0.00	C
ATOM	14520	HB	VAL	M	112	-7.054	-9.801-196.276	1.00	0.00	H
ATOM	14521	CG1	VAL	M	112	-8.331	-8.808-194.872	1.00	0.00	C
ATOM	14522	1HG1	VAL	M	112	-8.865	-7.862-194.786	1.00	0.00	H
ATOM	14523	2HG1	VAL	M	112	-7.656	-8.911-194.023	1.00	0.00	H
ATOM	14524	3HG1	VAL	M	112	-9.045	-9.630-194.857	1.00	0.00	H
ATOM	14525	CG2	VAL	M	112	-8.551	-8.696-197.322	1.00	0.00	C
ATOM	14526	1HG2	VAL	M	112	-9.030	-7.717-197.287	1.00	0.00	H
ATOM	14527	2HG2	VAL	M	112	-9.303	-9.477-197.232	1.00	0.00	H
ATOM	14528	3HG2	VAL	M	112	-8.052	-8.815-198.284	1.00	0.00	H
ATOM	14529	N	GLY	M	113	-5.147	-7.498-194.069	1.00	0.00	N
ATOM	14530	H	GLY	M	113	-5.834	-6.786-193.834	1.00	0.00	H
ATOM	14531	CA	GLY	M	113	-3.979	-7.611-193.179	1.00	0.00	C
ATOM	14532	1HA	GLY	M	113	-3.398	-8.496-193.437	1.00	0.00	H
ATOM	14533	2HA	GLY	M	113	-3.334	-6.748-193.338	1.00	0.00	H
ATOM	14534	C	GLY	M	113	-4.314	-7.667-191.680	1.00	0.00	C
ATOM	14535	O	GLY	M	113	-5.479	-7.610-191.285	1.00	0.00	O
ATOM	14536	N	ASN	M	114	-3.274	-7.833-190.848	1.00	0.00	N
ATOM	14537	H	ASN	M	114	-2.345	-7.745-191.237	1.00	0.00	H
ATOM	14538	CA	ASN	M	114	-3.353	-8.133-189.402	1.00	0.00	C
ATOM	14539	HA	ASN	M	114	-2.354	-8.460-189.113	1.00	0.00	H
ATOM	14540	C	ASN	M	114	-4.285	-9.331-189.060	1.00	0.00	C
ATOM	14541	O	ASN	M	114	-4.998	-9.337-188.061	1.00	0.00	O
ATOM	14542	CB	ASN	M	114	-3.646	-6.820-188.635	1.00	0.00	C
ATOM	14543	1HB	ASN	M	114	-3.232	-5.974-189.183	1.00	0.00	H
ATOM	14544	2HB	ASN	M	114	-4.724	-6.677-188.566	1.00	0.00	H
ATOM	14545	CG	ASN	M	114	-3.038	-6.752-187.237	1.00	0.00	C
ATOM	14546	OD1	ASN	M	114	-2.066	-7.429-186.929	1.00	0.00	O
ATOM	14547	ND2	ASN	M	114	-3.558	-5.883-186.400	1.00	0.00	N
ATOM	14548	1HD2	ASN	M	114	-3.101	-5.682-185.506	1.00	0.00	H
ATOM	14549	2HD2	ASN	M	114	-4.290	-5.264-186.683	1.00	0.00	H
ATOM	14550	N	VAL	M	115	-4.332	-10.334-189.953	1.00	0.00	N
ATOM	14551	H	VAL	M	115	-3.728	-10.247-190.751	1.00	0.00	H
ATOM	14552	CA	VAL	M	115	-5.373	-11.382-189.997	1.00	0.00	C
ATOM	14553	HA	VAL	M	115	-6.311	-10.908-189.705	1.00	0.00	H
ATOM	14554	C	VAL	M	115	-5.124	-12.562-189.040	1.00	0.00	C
ATOM	14555	O	VAL	M	115	-3.992	-13.017-188.853	1.00	0.00	O
ATOM	14556	CB	VAL	M	115	-5.551	-11.928-191.436	1.00	0.00	C
ATOM	14557	HB	VAL	M	115	-4.689	-12.547-191.686	1.00	0.00	H
ATOM	14558	CG1	VAL	M	115	-6.823	-12.780-191.578	1.00	0.00	C
ATOM	14559	1HG1	VAL	M	115	-6.706	-13.725-191.048	1.00	0.00	H
ATOM	14560	2HG1	VAL	M	115	-7.007	-13.019-192.625	1.00	0.00	H
ATOM	14561	3HG1	VAL	M	115	-7.682	-12.240-191.185	1.00	0.00	H
ATOM	14562	CG2	VAL	M	115	-5.635	-10.806-192.479	1.00	0.00	C
ATOM	14563	1HG2	VAL	M	115	-5.925	-11.206-193.452	1.00	0.00	H
ATOM	14564	2HG2	VAL	M	115	-4.662	-10.337-192.599	1.00	0.00	H
ATOM	14565	3HG2	VAL	M	115	-6.365	-10.059-192.168	1.00	0.00	H
ATOM	14566	N	ASP	M	116	-6.236	-13.099-188.526	1.00	0.00	N
ATOM	14567	H	ASP	M	116	-7.085	-12.593-188.722	1.00	0.00	H
ATOM	14568	CA	ASP	M	116	-6.419	-14.370-187.806	1.00	0.00	C
ATOM	14569	HA	ASP	M	116	-5.993	-14.256-186.808	1.00	0.00	H
ATOM	14570	C	ASP	M	116	-5.758	-15.620-188.452	1.00	0.00	C
ATOM	14571	O	ASP	M	116	-5.356	-15.616-189.614	1.00	0.00	O
ATOM	14572	CB	ASP	M	116	-7.942	-14.547-187.655	1.00	0.00	C
ATOM	14573	1HB	ASP	M	116	-8.350	-13.693-187.110	1.00	0.00	H
ATOM	14574	2HB	ASP	M	116	-8.399	-14.560-188.647	1.00	0.00	H
ATOM	14575	CG	ASP	M	116	-8.326	-15.826-186.922	1.00	0.00	C
ATOM	14576	OD1	ASP	M	116	-8.355	-15.840-185.674	1.00	0.00	O

ATOM	14577	OD2	ASP	M	116	-8.561	-16.852	-187.592	1.00	0.00	O
ATOM	14578	N	TYR	M	117	-5.664	-16.717	-187.686	1.00	0.00	N
ATOM	14579	H	TYR	M	117	-6.127	-16.694	-186.787	1.00	0.00	H
ATOM	14580	CA	TYR	M	117	-4.905	-17.938	-187.993	1.00	0.00	C
ATOM	14581	HA	TYR	M	117	-4.274	-17.741	-188.857	1.00	0.00	H
ATOM	14582	C	TYR	M	117	-5.736	-19.179	-188.382	1.00	0.00	C
ATOM	14583	O	TYR	M	117	-5.159	-20.255	-188.559	1.00	0.00	O
ATOM	14584	CB	TYR	M	117	-4.008	-18.243	-186.779	1.00	0.00	C
ATOM	14585	1HB	TYR	M	117	-3.330	-19.059	-187.033	1.00	0.00	H
ATOM	14586	2HB	TYR	M	117	-3.392	-17.371	-186.564	1.00	0.00	H
ATOM	14587	CG	TYR	M	117	-4.775	-18.611	-185.519	1.00	0.00	C
ATOM	14588	CD1	TYR	M	117	-5.153	-17.609	-184.603	1.00	0.00	C
ATOM	14589	HD1	TYR	M	117	-4.886	-16.576	-184.781	1.00	0.00	H
ATOM	14590	CD2	TYR	M	117	-5.142	-19.951	-185.283	1.00	0.00	C
ATOM	14591	HD2	TYR	M	117	-4.864	-20.716	-185.996	1.00	0.00	H
ATOM	14592	CE1	TYR	M	117	-5.906	-17.944	-183.461	1.00	0.00	C
ATOM	14593	HE1	TYR	M	117	-6.221	-17.178	-182.769	1.00	0.00	H
ATOM	14594	CE2	TYR	M	117	-5.898	-20.290	-184.144	1.00	0.00	C
ATOM	14595	HE2	TYR	M	117	-6.191	-21.314	-183.979	1.00	0.00	H
ATOM	14596	CZ	TYR	M	117	-6.284	-19.283	-183.233	1.00	0.00	C
ATOM	14597	OH	TYR	M	117	-7.021	-19.603	-182.137	1.00	0.00	O
ATOM	14598	HH	TYR	M	117	-7.251	-20.530	-182.121	1.00	0.00	H
ATOM	14599	N	ALA	M	118	-7.060	-19.066	-188.509	1.00	0.00	N
ATOM	14600	H	ALA	M	118	-7.493	-18.180	-188.254	1.00	0.00	H
ATOM	14601	CA	ALA	M	118	-7.951	-20.163	-188.917	1.00	0.00	C
ATOM	14602	HA	ALA	M	118	-7.350	-20.967	-189.342	1.00	0.00	H
ATOM	14603	C	ALA	M	118	-8.960	-19.776	-190.023	1.00	0.00	C
ATOM	14604	O	ALA	M	118	-9.665	-20.646	-190.534	1.00	0.00	O
ATOM	14605	CB	ALA	M	118	-8.641	-20.708	-187.660	1.00	0.00	C
ATOM	14606	1HB	ALA	M	118	-9.242	-19.922	-187.206	1.00	0.00	H
ATOM	14607	2HB	ALA	M	118	-7.891	-21.048	-186.947	1.00	0.00	H
ATOM	14608	3HB	ALA	M	118	-9.287	-21.543	-187.931	1.00	0.00	H
ATOM	14609	N	CYS	M	119	-8.986	-18.498	-190.410	1.00	0.00	N
ATOM	14610	H	CYS	M	119	-8.423	-17.851	-189.882	1.00	0.00	H
ATOM	14611	CA	CYS	M	119	-9.715	-17.959	-191.559	1.00	0.00	C
ATOM	14612	HA	CYS	M	119	-10.783	-18.142	-191.421	1.00	0.00	H
ATOM	14613	C	CYS	M	119	-9.288	-18.600	-192.901	1.00	0.00	C
ATOM	14614	O	CYS	M	119	-8.124	-18.966	-193.087	1.00	0.00	O
ATOM	14615	CB	CYS	M	119	-9.447	-16.446	-191.537	1.00	0.00	C
ATOM	14616	1HB	CYS	M	119	-9.707	-16.049	-190.554	1.00	0.00	H
ATOM	14617	2HB	CYS	M	119	-8.386	-16.266	-191.722	1.00	0.00	H
ATOM	14618	SG	CYS	M	119	-10.427	-15.584	-192.791	1.00	0.00	S
ATOM	14619	HG	CYS	M	119	-9.950	-14.355	-192.557	1.00	0.00	H
ATOM	14620	N	THR	M	120	-10.209	-18.687	-193.867	1.00	0.00	N
ATOM	14621	H	THR	M	120	-11.160	-18.422	-193.618	1.00	0.00	H
ATOM	14622	CA	THR	M	120	-10.019	-19.374	-195.159	1.00	0.00	C
ATOM	14623	HA	THR	M	120	-8.982	-19.694	-195.233	1.00	0.00	H
ATOM	14624	C	THR	M	120	-10.334	-18.478	-196.369	1.00	0.00	C
ATOM	14625	O	THR	M	120	-11.243	-17.648	-196.311	1.00	0.00	O
ATOM	14626	CB	THR	M	120	-10.902	-20.633	-195.241	1.00	0.00	C
ATOM	14627	HB	THR	M	120	-10.718	-21.118	-196.198	1.00	0.00	H
ATOM	14628	OG1	THR	M	120	-12.272	-20.311	-195.171	1.00	0.00	O
ATOM	14629	HG1	THR	M	120	-12.440	-19.940	-194.272	1.00	0.00	H
ATOM	14630	CG2	THR	M	120	-10.607	-21.647	-194.137	1.00	0.00	C
ATOM	14631	1HG2	THR	M	120	-9.547	-21.901	-194.146	1.00	0.00	H
ATOM	14632	2HG2	THR	M	120	-11.195	-22.548	-194.310	1.00	0.00	H
ATOM	14633	3HG2	THR	M	120	-10.867	-21.233	-193.161	1.00	0.00	H
ATOM	14634	N	PRO	M	121	-9.655	-18.642	-197.525	1.00	0.00	N
ATOM	14635	CA	PRO	M	121	-9.979	-17.868	-198.727	1.00	0.00	C
ATOM	14636	HA	PRO	M	121	-9.944	-16.803	-198.497	1.00	0.00	H
ATOM	14637	C	PRO	M	121	-11.382	-18.192	-199.267	1.00	0.00	C
ATOM	14638	O	PRO	M	121	-12.010	-17.351	-199.912	1.00	0.00	O
ATOM	14639	CB	PRO	M	121	-8.875	-18.195	-199.737	1.00	0.00	C
ATOM	14640	1HB	PRO	M	121	-9.240	-18.183	-200.764	1.00	0.00	H
ATOM	14641	2HB	PRO	M	121	-8.060	-17.483	-199.619	1.00	0.00	H
ATOM	14642	CG	PRO	M	121	-8.400	-19.586	-199.321	1.00	0.00	C
ATOM	14643	1HG	PRO	M	121	-9.040	-20.334	-199.784	1.00	0.00	H
ATOM	14644	2HG	PRO	M	121	-7.365	-19.765	-199.605	1.00	0.00	H
ATOM	14645	CD	PRO	M	121	-8.592	-19.599	-197.802	1.00	0.00	C
ATOM	14646	1HD	PRO	M	121	-8.853	-20.602	-197.465	1.00	0.00	H
ATOM	14647	2HD	PRO	M	121	-7.679	-19.272	-197.307	1.00	0.00	H
ATOM	14648	N	GLU	M	122	-11.896	-19.393	-198.990	1.00	0.00	N
ATOM	14649	H	GLU	M	122	-11.300	-20.077	-198.524	1.00	0.00	H
ATOM	14650	CA	GLU	M	122	-13.281	-19.800	-199.234	1.00	0.00	C
ATOM	14651	HA	GLU	M	122	-13.497	-19.721	-200.298	1.00	0.00	H
ATOM	14652	C	GLU	M	122	-14.310	-18.908	-198.509	1.00	0.00	C
ATOM	14653	O	GLU	M	122	-15.357	-18.616	-199.089	1.00	0.00	O



ATOM	14654	CB	GLU	M	122	-13.465	-21.273-198.823	1.00	0.00	C
ATOM	14655	1HB	GLU	M	122	-13.130	-21.418-197.795	1.00	0.00	H
ATOM	14656	2HB	GLU	M	122	-14.533	-21.492-198.849	1.00	0.00	H
ATOM	14657	CG	GLU	M	122	-12.775	-22.298-199.750	1.00	0.00	C
ATOM	14658	1HG	GLU	M	122	-13.155	-23.289-199.491	1.00	0.00	H
ATOM	14659	2HG	GLU	M	122	-13.081	-22.091-200.778	1.00	0.00	H
ATOM	14660	CD	GLU	M	122	-11.239	-22.345-199.676	1.00	0.00	C
ATOM	14661	OE1	GLU	M	122	-10.609	-22.826-200.651	1.00	0.00	O
ATOM	14662	OE2	GLU	M	122	-10.650	-21.901-198.671	1.00	0.00	O
ATOM	14663	N	GLU	M	123	-14.024	-18.417-197.294	1.00	0.00	N
ATOM	14664	H	GLU	M	123	-13.158	-18.692-196.838	1.00	0.00	H
ATOM	14665	CA	GLU	M	123	-14.956	-17.555-196.546	1.00	0.00	C
ATOM	14666	HA	GLU	M	123	-15.945	-17.688-196.982	1.00	0.00	H
ATOM	14667	C	GLU	M	123	-14.650	-16.054-196.670	1.00	0.00	C
ATOM	14668	O	GLU	M	123	-15.588	-15.258-196.679	1.00	0.00	O
ATOM	14669	CB	GLU	M	123	-15.100	-18.023-195.087	1.00	0.00	C
ATOM	14670	1HB	GLU	M	123	-16.082	-17.718-194.723	1.00	0.00	H
ATOM	14671	2HB	GLU	M	123	-15.071	-19.114-195.072	1.00	0.00	H
ATOM	14672	CG	GLU	M	123	-14.047	-17.466-194.122	1.00	0.00	C
ATOM	14673	1HG	GLU	M	123	-13.093	-17.369-194.638	1.00	0.00	H
ATOM	14674	2HG	GLU	M	123	-14.348	-16.471-193.788	1.00	0.00	H
ATOM	14675	CD	GLU	M	123	-13.867	-18.399-192.927	1.00	0.00	C
ATOM	14676	OE1	GLU	M	123	-12.830	-19.100-192.899	1.00	0.00	O
ATOM	14677	OE2	GLU	M	123	-14.754	-18.449-192.047	1.00	0.00	O
ATOM	14678	N	VAL	M	124	-13.388	-15.651-196.879	1.00	0.00	N
ATOM	14679	H	VAL	M	124	-12.647	-16.342-196.790	1.00	0.00	H
ATOM	14680	CA	VAL	M	124	-13.024	-14.245-197.168	1.00	0.00	C
ATOM	14681	HA	VAL	M	124	-13.292	-13.632-196.310	1.00	0.00	H
ATOM	14682	C	VAL	M	124	-13.831	-13.695-198.347	1.00	0.00	C
ATOM	14683	O	VAL	M	124	-14.412	-12.614-198.253	1.00	0.00	O
ATOM	14684	CB	VAL	M	124	-11.505	-14.097-197.405	1.00	0.00	C
ATOM	14685	HB	VAL	M	124	-11.190	-14.831-198.148	1.00	0.00	H
ATOM	14686	CG1	VAL	M	124	-11.102	-12.704-197.903	1.00	0.00	C
ATOM	14687	1HG1	VAL	M	124	-10.017	-12.640-197.999	1.00	0.00	H
ATOM	14688	2HG1	VAL	M	124	-11.442	-11.950-197.193	1.00	0.00	H
ATOM	14689	3HG1	VAL	M	124	-11.541	-12.503-198.878	1.00	0.00	H
ATOM	14690	CG2	VAL	M	124	-10.716	-14.326-196.112	1.00	0.00	C
ATOM	14691	1HG2	VAL	M	124	-9.647	-14.346-196.324	1.00	0.00	H
ATOM	14692	2HG2	VAL	M	124	-10.994	-15.272-195.656	1.00	0.00	H
ATOM	14693	3HG2	VAL	M	124	-10.921	-13.528-195.397	1.00	0.00	H
ATOM	14694	N	GLN	M	125	-13.947	-14.460-199.440	1.00	0.00	N
ATOM	14695	H	GLN	M	125	-13.462	-15.347-199.466	1.00	0.00	H
ATOM	14696	CA	GLN	M	125	-14.787	-14.056-200.571	1.00	0.00	C
ATOM	14697	HA	GLN	M	125	-14.509	-13.031-200.824	1.00	0.00	H
ATOM	14698	C	GLN	M	125	-16.288	-14.000-200.216	1.00	0.00	C
ATOM	14699	O	GLN	M	125	-16.967	-13.072-200.650	1.00	0.00	O
ATOM	14700	CB	GLN	M	125	-14.469	-14.908-201.819	1.00	0.00	C
ATOM	14701	1HB	GLN	M	125	-15.003	-14.491-202.675	1.00	0.00	H
ATOM	14702	2HB	GLN	M	125	-13.401	-14.815-202.022	1.00	0.00	H
ATOM	14703	CG	GLN	M	125	-14.813	-16.402-201.707	1.00	0.00	C
ATOM	14704	1HG	GLN	M	125	-14.484	-16.772-200.738	1.00	0.00	H
ATOM	14705	2HG	GLN	M	125	-15.893	-16.534-201.765	1.00	0.00	H
ATOM	14706	CD	GLN	M	125	-14.154	-17.244-202.803	1.00	0.00	C
ATOM	14707	OE1	GLN	M	125	-14.477	-17.158-203.981	1.00	0.00	O
ATOM	14708	NE2	GLN	M	125	-13.201	-18.077-202.443	1.00	0.00	N
ATOM	14709	1HE2	GLN	M	125	-12.776	-18.702-203.128	1.00	0.00	H
ATOM	14710	2HE2	GLN	M	125	-12.854	-18.031-201.493	1.00	0.00	H
ATOM	14711	N	GLN	M	126	-16.823	-14.925-199.402	1.00	0.00	N
ATOM	14712	H	GLN	M	126	-16.217	-15.617-198.984	1.00	0.00	H
ATOM	14713	CA	GLN	M	126	-18.261	-14.945-199.068	1.00	0.00	C
ATOM	14714	HA	GLN	M	126	-18.796	-14.745-199.997	1.00	0.00	H
ATOM	14715	C	GLN	M	126	-18.685	-13.827-198.097	1.00	0.00	C
ATOM	14716	O	GLN	M	126	-19.781	-13.281-198.248	1.00	0.00	O
ATOM	14717	CB	GLN	M	126	-18.709	-16.356-198.618	1.00	0.00	C
ATOM	14718	1HB	GLN	M	126	-19.725	-16.515-198.980	1.00	0.00	H
ATOM	14719	2HB	GLN	M	126	-18.085	-17.089-199.133	1.00	0.00	H
ATOM	14720	CG	GLN	M	126	-18.684	-16.686-197.110	1.00	0.00	C
ATOM	14721	1HG	GLN	M	126	-18.638	-17.768-196.996	1.00	0.00	H
ATOM	14722	2HG	GLN	M	126	-17.792	-16.276-196.651	1.00	0.00	H
ATOM	14723	CD	GLN	M	126	-19.919	-16.205-196.347	1.00	0.00	C
ATOM	14724	OE1	GLN	M	126	-21.048	-16.519-196.689	1.00	0.00	O
ATOM	14725	NE2	GLN	M	126	-19.763	-15.456-195.277	1.00	0.00	N
ATOM	14726	1HE2	GLN	M	126	-20.599	-15.134-194.824	1.00	0.00	H
ATOM	14727	2HE2	GLN	M	126	-18.852	-15.210-194.926	1.00	0.00	H
ATOM	14728	N	HIS	M	127	-17.821	-13.447-197.144	1.00	0.00	N
ATOM	14729	H	HIS	M	127	-16.930	-13.932-197.072	1.00	0.00	H
ATOM	14730	CA	HIS	M	127	-18.055	-12.299-196.258	1.00	0.00	C

ATOM	14731	HA	HIS	M	127	-18.984	-12.448-195.705	1.00	0.00	H
ATOM	14732	C	HIS	M	127	-18.224	-11.017-197.080	1.00	0.00	O
ATOM	14733	O	HIS	M	127	-19.284	-10.397-197.041	1.00	0.00	C
ATOM	14734	CB	HIS	M	127	-16.903	-12.145-195.247	1.00	0.00	C
ATOM	14735	1HB	HIS	M	127	-15.963	-12.456-195.705	1.00	0.00	H
ATOM	14736	2HB	HIS	M	127	-16.808	-11.087-194.993	1.00	0.00	H
ATOM	14737	CG	HIS	M	127	-17.101	-12.890-193.949	1.00	0.00	C
ATOM	14738	ND1	HIS	M	127	-17.452	-12.335-192.734	1.00	0.00	N
ATOM	14739	HD1	HIS	M	127	-17.523	-11.346-192.500	1.00	0.00	H
ATOM	14740	CD2	HIS	M	127	-16.912	-14.228-193.733	1.00	0.00	C
ATOM	14741	HD2	HIS	M	127	-16.583	-14.950-194.463	1.00	0.00	H
ATOM	14742	CE1	HIS	M	127	-17.514	-13.321-191.825	1.00	0.00	C
ATOM	14743	HE1	HIS	M	127	-17.749	-13.182-190.776	1.00	0.00	H
ATOM	14744	NE2	HIS	M	127	-17.182	-14.497-192.389	1.00	0.00	N
ATOM	14745	N	PHE	M	128	-17.227	-10.656-197.892	1.00	0.00	N
ATOM	14746	H	PHE	M	128	-16.364	-11.188-197.887	1.00	0.00	H
ATOM	14747	CA	PHE	M	128	-17.288	-9.424-198.680	1.00	0.00	C
ATOM	14748	HA	PHE	M	128	-17.559	-8.603-198.015	1.00	0.00	H
ATOM	14749	C	PHE	M	128	-18.375	-9.460-199.768	1.00	0.00	C
ATOM	14750	O	PHE	M	128	-19.100	-8.478-199.920	1.00	0.00	O
ATOM	14751	CB	PHE	M	128	-15.904	-9.130-199.263	1.00	0.00	C
ATOM	14752	1HB	PHE	M	128	-15.651	-9.945-199.937	1.00	0.00	H
ATOM	14753	2HB	PHE	M	128	-15.960	-8.212-199.851	1.00	0.00	H
ATOM	14754	CG	PHE	M	128	-14.772	-8.974-198.256	1.00	0.00	C
ATOM	14755	CD1	PHE	M	128	-14.952	-8.280-197.041	1.00	0.00	C
ATOM	14756	HD1	PHE	M	128	-15.913	-7.863-196.779	1.00	0.00	H
ATOM	14757	CD2	PHE	M	128	-13.506	-9.507-198.559	1.00	0.00	C
ATOM	14758	HD2	PHE	M	128	-13.364	-10.069-199.467	1.00	0.00	H
ATOM	14759	CE1	PHE	M	128	-13.873	-8.111-196.154	1.00	0.00	C
ATOM	14760	HE1	PHE	M	128	-14.019	-7.588-195.217	1.00	0.00	H
ATOM	14761	CE2	PHE	M	128	-12.420	-9.308-197.690	1.00	0.00	C
ATOM	14762	HE2	PHE	M	128	-11.447	-9.692-197.952	1.00	0.00	H
ATOM	14763	CZ	PHE	M	128	-12.601	-8.608-196.486	1.00	0.00	C
ATOM	14764	HZ	PHE	M	128	-11.769	-8.458-195.812	1.00	0.00	H
ATOM	14765	N	GLN	M	129	-18.579	-10.595-200.457	1.00	0.00	N
ATOM	14766	H	GLN	M	129	-17.956	-11.381-200.296	1.00	0.00	H
ATOM	14767	CA	GLN	M	129	-19.652	-10.750-201.457	1.00	0.00	C
ATOM	14768	HA	GLN	M	129	-19.489	-10.000-202.227	1.00	0.00	H
ATOM	14769	C	GLN	M	129	-21.057	-10.499-200.878	1.00	0.00	C
ATOM	14770	O	GLN	M	129	-21.950	-10.072-201.612	1.00	0.00	O
ATOM	14771	CB	GLN	M	129	-19.563	-12.137-202.125	1.00	0.00	C
ATOM	14772	1HB	GLN	M	129	-18.534	-12.317-202.427	1.00	0.00	H
ATOM	14773	2HB	GLN	M	129	-19.851	-12.904-201.404	1.00	0.00	H
ATOM	14774	CG	GLN	M	129	-20.427	-12.270-203.389	1.00	0.00	C
ATOM	14775	1HG	GLN	M	129	-21.477	-12.123-203.138	1.00	0.00	H
ATOM	14776	2HG	GLN	M	129	-20.130	-11.510-204.110	1.00	0.00	H
ATOM	14777	CD	GLN	M	129	-20.281	-13.645-204.035	1.00	0.00	C
ATOM	14778	OE1	GLN	M	129	-21.143	-14.505-203.934	1.00	0.00	O
ATOM	14779	NE2	GLN	M	129	-19.204	-13.913-204.739	1.00	0.00	N
ATOM	14780	1HE2	GLN	M	129	-19.112	-14.843-205.094	1.00	0.00	H
ATOM	14781	2HE2	GLN	M	129	-18.472	-13.216-204.867	1.00	0.00	H
ATOM	14782	N	SER	M	130	-21.252	-10.725-199.573	1.00	0.00	N
ATOM	14783	H	SER	M	130	-20.470	-11.057-199.021	1.00	0.00	H
ATOM	14784	CA	SER	M	130	-22.505	-10.428-198.862	1.00	0.00	C
ATOM	14785	HA	SER	M	130	-23.329	-10.856-199.432	1.00	0.00	H
ATOM	14786	C	SER	M	130	-22.806	-8.925-198.715	1.00	0.00	C
ATOM	14787	O	SER	M	130	-23.954	-8.576-198.435	1.00	0.00	O
ATOM	14788	CB	SER	M	130	-22.510	-11.090-197.479	1.00	0.00	C
ATOM	14789	1HB	SER	M	130	-21.704	-10.692-196.865	1.00	0.00	H
ATOM	14790	2HB	SER	M	130	-23.457	-10.868-196.986	1.00	0.00	H
ATOM	14791	OG	SER	M	130	-22.384	-12.498-197.601	1.00	0.00	O
ATOM	14792	HG	SER	M	130	-21.454	-12.715-197.797	1.00	0.00	H
ATOM	14793	N	CYS	M	131	-21.823	-8.048-198.954	1.00	0.00	N
ATOM	14794	H	CYS	M	131	-20.901	-8.418-199.151	1.00	0.00	H
ATOM	14795	CA	CYS	M	131	-21.943	-6.587-198.848	1.00	0.00	C
ATOM	14796	HA	CYS	M	131	-22.947	-6.316-198.520	1.00	0.00	H
ATOM	14797	C	CYS	M	131	-21.697	-5.863-200.185	1.00	0.00	C
ATOM	14798	O	CYS	M	131	-22.380	-4.887-200.488	1.00	0.00	O
ATOM	14799	CB	CYS	M	131	-20.947	-6.087-197.797	1.00	0.00	C
ATOM	14800	1HB	CYS	M	131	-19.937	-6.429-198.036	1.00	0.00	H
ATOM	14801	2HB	CYS	M	131	-20.947	-4.998-197.800	1.00	0.00	H
ATOM	14802	SG	CYS	M	131	-21.402	-6.652-196.136	1.00	0.00	S
ATOM	14803	HG	CYS	M	131	-20.427	-5.958-195.516	1.00	0.00	H
ATOM	14804	N	GLY	M	132	-20.782	-6.364-201.019	1.00	0.00	N
ATOM	14805	H	GLY	M	132	-20.217	-7.146-200.700	1.00	0.00	H
ATOM	14806	CA	GLY	M	132	-20.510	-5.855-202.364	1.00	0.00	C
ATOM	14807	1HA	GLY	M	132	-21.436	-5.507-202.820	1.00	0.00	H

ATOM	14808	2HA	GLY	M	132	-19.814	-5.018-202.307	1.00	0.00	H
ATOM	14809	C	GLY	M	132	-19.893	-6.952-203.228	1.00	0.00	C
ATOM	14810	O	GLY	M	132	-19.021	-7.688-202.777	1.00	0.00	O
ATOM	14811	N	THR	M	133	-20.381	-7.123-204.460	1.00	0.00	N
ATOM	14812	H	THR	M	133	-21.055	-6.461-204.807	1.00	0.00	H
ATOM	14813	CA	THR	M	133	-20.006	-8.280-205.292	1.00	0.00	C
ATOM	14814	HA	THR	M	133	-20.275	-9.167-204.719	1.00	0.00	H
ATOM	14815	C	THR	M	133	-18.494	-8.358-205.542	1.00	0.00	C
ATOM	14816	O	THR	M	133	-17.918	-7.506-206.209	1.00	0.00	O
ATOM	14817	CB	THR	M	133	-20.836	-8.359-206.586	1.00	0.00	C
ATOM	14818	HB	THR	M	133	-21.884	-8.443-206.295	1.00	0.00	H
ATOM	14819	OG1	THR	M	133	-20.488	-9.509-207.318	1.00	0.00	O
ATOM	14820	HG1	THR	M	133	-19.663	-9.300-207.772	1.00	0.00	H
ATOM	14821	CG2	THR	M	133	-20.712	-7.187-207.556	1.00	0.00	C
ATOM	14822	1HG2	THR	M	133	-21.529	-7.225-208.275	1.00	0.00	H
ATOM	14823	2HG2	THR	M	133	-19.771	-7.254-208.097	1.00	0.00	H
ATOM	14824	3HG2	THR	M	133	-20.754	-6.239-207.020	1.00	0.00	H
ATOM	14825	N	VAL	M	134	-17.875	-9.433-205.046	1.00	0.00	N
ATOM	14826	H	VAL	M	134	-18.420	-10.069-204.487	1.00	0.00	H
ATOM	14827	CA	VAL	M	134	-16.450	-9.764-205.198	1.00	0.00	C
ATOM	14828	HA	VAL	M	134	-16.012	-9.090-205.930	1.00	0.00	H
ATOM	14829	C	VAL	M	134	-16.340	-11.194-205.742	1.00	0.00	C
ATOM	14830	O	VAL	M	134	-17.235	-12.010-205.497	1.00	0.00	O
ATOM	14831	CB	VAL	M	134	-15.702	-9.531-203.867	1.00	0.00	C
ATOM	14832	HB	VAL	M	134	-16.156	-8.677-203.363	1.00	0.00	H
ATOM	14833	CG1	VAL	M	134	-15.749	-10.724-202.906	1.00	0.00	C
ATOM	14834	1HG1	VAL	M	134	-16.781	-10.938-202.644	1.00	0.00	H
ATOM	14835	2HG1	VAL	M	134	-15.199	-10.479-202.001	1.00	0.00	H
ATOM	14836	3HG1	VAL	M	134	-15.290	-11.607-203.350	1.00	0.00	H
ATOM	14837	CG2	VAL	M	134	-14.239	-9.167-204.104	1.00	0.00	C
ATOM	14838	1HG2	VAL	M	134	-14.175	-8.301-204.763	1.00	0.00	H
ATOM	14839	2HG2	VAL	M	134	-13.705	-10.007-204.547	1.00	0.00	H
ATOM	14840	3HG2	VAL	M	134	-13.773	-8.901-203.156	1.00	0.00	H
ATOM	14841	N	ASN	M	135	-15.306	-11.498-206.529	1.00	0.00	N
ATOM	14842	H	ASN	M	135	-14.588	-10.789-206.676	1.00	0.00	H
ATOM	14843	CA	ASN	M	135	-15.290	-12.674-207.407	1.00	0.00	C
ATOM	14844	HA	ASN	M	135	-16.173	-13.286-207.218	1.00	0.00	H
ATOM	14845	C	ASN	M	135	-14.099	-13.606-207.151	1.00	0.00	C
ATOM	14846	O	ASN	M	135	-14.339	-14.781-206.863	1.00	0.00	O
ATOM	14847	CB	ASN	M	135	-15.396	-12.181-208.862	1.00	0.00	C
ATOM	14848	1HB	ASN	M	135	-16.417	-11.864-209.049	1.00	0.00	H
ATOM	14849	2HB	ASN	M	135	-14.753	-11.312-209.002	1.00	0.00	H
ATOM	14850	CG	ASN	M	135	-15.050	-13.228-209.907	1.00	0.00	C
ATOM	14851	OD1	ASN	M	135	-15.743	-14.214-210.102	1.00	0.00	O
ATOM	14852	ND2	ASN	M	135	-13.973	-13.042-210.624	1.00	0.00	N
ATOM	14853	1HD2	ASN	M	135	-13.745	-13.691-211.343	1.00	0.00	H
ATOM	14854	2HD2	ASN	M	135	-13.351	-12.260-210.369	1.00	0.00	H
ATOM	14855	N	ARG	M	136	-12.845	-13.136-207.218	1.00	0.00	N
ATOM	14856	H	ARG	M	136	-12.711	-12.177-207.537	1.00	0.00	H
ATOM	14857	CA	ARG	M	136	-11.640	-13.966-206.979	1.00	0.00	C
ATOM	14858	HA	ARG	M	136	-11.954	-14.974-206.727	1.00	0.00	H
ATOM	14859	C	ARG	M	136	-10.854	-13.541-205.740	1.00	0.00	C
ATOM	14860	O	ARG	M	136	-11.100	-12.483-205.171	1.00	0.00	O
ATOM	14861	CB	ARG	M	136	-10.764	-14.019-208.252	1.00	0.00	C
ATOM	14862	1HB	ARG	M	136	-11.133	-13.315-208.994	1.00	0.00	H
ATOM	14863	2HB	ARG	M	136	-9.750	-13.700-208.006	1.00	0.00	H
ATOM	14864	CG	ARG	M	136	-10.675	-15.400-208.922	1.00	0.00	C
ATOM	14865	1HG	ARG	M	136	-9.970	-15.304-209.746	1.00	0.00	H
ATOM	14866	2HG	ARG	M	136	-10.259	-16.122-208.219	1.00	0.00	H
ATOM	14867	CD	ARG	M	136	-12.008	-15.921-209.495	1.00	0.00	C
ATOM	14868	1HD	ARG	M	136	-12.511	-15.101-210.004	1.00	0.00	H
ATOM	14869	2HD	ARG	M	136	-11.807	-16.688-210.240	1.00	0.00	H
ATOM	14870	NE	ARG	M	136	-12.899	-16.471-208.457	1.00	0.00	N
ATOM	14871	HE	ARG	M	136	-13.617	-15.850-208.099	1.00	0.00	H
ATOM	14872	CZ	ARG	M	136	-12.730	-17.565-207.746	1.00	0.00	C
ATOM	14873	NH1	ARG	M	136	-11.871	-18.478-208.072	1.00	0.00	N
ATOM	14874	1HH1	ARG	M	136	-11.297	-18.371-208.893	1.00	0.00	H
ATOM	14875	2HH1	ARG	M	136	-11.804	-19.265-207.423	1.00	0.00	H
ATOM	14876	NH2	ARG	M	136	-13.386	-17.781-206.650	1.00	0.00	N
ATOM	14877	1HH2	ARG	M	136	-13.973	-17.075-206.216	1.00	0.00	H
ATOM	14878	2HH2	ARG	M	136	-13.142	-18.614-206.115	1.00	0.00	H
ATOM	14879	N	VAL	M	137	-9.940	-14.420-205.318	1.00	0.00	N
ATOM	14880	H	VAL	M	137	-9.767	-15.228-205.893	1.00	0.00	H
ATOM	14881	CA	VAL	M	137	-9.198	-14.369-204.046	1.00	0.00	C
ATOM	14882	HA	VAL	M	137	-9.071	-13.327-203.764	1.00	0.00	H
ATOM	14883	C	VAL	M	137	-7.810	-15.009-204.187	1.00	0.00	C
ATOM	14884	O	VAL	M	137	-7.608	-15.878-205.038	1.00	0.00	O

ATOM	14885	CB	VAL	M	137	-10.016	-15.080	-202.936	1.00	0.00	C
ATOM	14886	HB	VAL	M	137	-11.006	-14.625	-202.915	1.00	0.00	H
ATOM	14887	CG1	VAL	M	137	-10.210	-16.581	-203.193	1.00	0.00	C
ATOM	14888	1HG1	VAL	M	137	-9.250	-17.094	-203.240	1.00	0.00	H
ATOM	14889	2HG1	VAL	M	137	-10.756	-16.740	-204.123	1.00	0.00	H
ATOM	14890	3HG1	VAL	M	137	-10.790	-17.010	-202.379	1.00	0.00	H
ATOM	14891	CG2	VAL	M	137	-9.420	-14.926	-201.528	1.00	0.00	C
ATOM	14892	1HG2	VAL	M	137	-10.160	-15.228	-200.787	1.00	0.00	H
ATOM	14893	2HG2	VAL	M	137	-9.150	-13.886	-201.343	1.00	0.00	H
ATOM	14894	3HG2	VAL	M	137	-8.533	-15.546	-201.408	1.00	0.00	H
ATOM	14895	N	THR	M	138	-6.870	-14.642	-203.315	1.00	0.00	N
ATOM	14896	H	THR	M	138	-7.066	-13.827	-202.735	1.00	0.00	H
ATOM	14897	CA	THR	M	138	-5.645	-15.399	-202.979	1.00	0.00	C
ATOM	14898	HA	THR	M	138	-5.874	-16.464	-202.988	1.00	0.00	H
ATOM	14899	C	THR	M	138	-5.211	-15.054	-201.545	1.00	0.00	C
ATOM	14900	O	THR	M	138	-5.630	-14.029	-201.011	1.00	0.00	O
ATOM	14901	CB	THR	M	138	-4.556	-15.139	-204.039	1.00	0.00	C
ATOM	14902	HB	THR	M	138	-4.612	-14.105	-204.379	1.00	0.00	H
ATOM	14903	OG1	THR	M	138	-4.839	-16.011	-205.112	1.00	0.00	O
ATOM	14904	HG1	THR	M	138	-5.774	-15.875	-205.335	1.00	0.00	H
ATOM	14905	CG2	THR	M	138	-3.113	-15.450	-203.639	1.00	0.00	C
ATOM	14906	1HG2	THR	M	138	-2.784	-14.757	-202.865	1.00	0.00	H
ATOM	14907	2HG2	THR	M	138	-2.465	-15.315	-204.506	1.00	0.00	H
ATOM	14908	3HG2	THR	M	138	-3.030	-16.475	-203.281	1.00	0.00	H
ATOM	14909	N	ILE	M	139	-4.436	-15.933	-200.892	1.00	0.00	N
ATOM	14910	H	ILE	M	139	-4.053	-16.717	-201.397	1.00	0.00	H
ATOM	14911	CA	ILE	M	139	-4.090	-15.851	-199.461	1.00	0.00	C
ATOM	14912	HA	ILE	M	139	-4.160	-14.811	-199.155	1.00	0.00	H
ATOM	14913	C	ILE	M	139	-2.644	-16.309	-199.190	1.00	0.00	C
ATOM	14914	O	ILE	M	139	-2.111	-17.164	-199.902	1.00	0.00	O
ATOM	14915	CB	ILE	M	139	-5.122	-16.667	-198.633	1.00	0.00	C
ATOM	14916	HB	ILE	M	139	-6.110	-16.401	-199.009	1.00	0.00	H
ATOM	14917	CG1	ILE	M	139	-5.117	-16.296	-197.132	1.00	0.00	C
ATOM	14918	1HG1	ILE	M	139	-4.164	-16.567	-196.678	1.00	0.00	H
ATOM	14919	2HG1	ILE	M	139	-5.242	-15.219	-197.050	1.00	0.00	H
ATOM	14920	CG2	ILE	M	139	-4.936	-18.185	-198.834	1.00	0.00	C
ATOM	14921	1HG2	ILE	M	139	-5.738	-18.729	-198.344	1.00	0.00	H
ATOM	14922	2HG2	ILE	M	139	-3.991	-18.514	-198.401	1.00	0.00	H
ATOM	14923	3HG2	ILE	M	139	-4.950	-18.432	-199.895	1.00	0.00	H
ATOM	14924	CD1	ILE	M	139	-6.242	-16.933	-196.307	1.00	0.00	C
ATOM	14925	1HD1	ILE	M	139	-7.206	-16.755	-196.786	1.00	0.00	H
ATOM	14926	2HD1	ILE	M	139	-6.257	-16.485	-195.313	1.00	0.00	H
ATOM	14927	3HD1	ILE	M	139	-6.073	-18.004	-196.196	1.00	0.00	H
ATOM	14928	N	LEU	M	140	-2.052	-15.788	-198.116	1.00	0.00	N
ATOM	14929	H	LEU	M	140	-2.541	-15.028	-197.649	1.00	0.00	H
ATOM	14930	CA	LEU	M	140	-0.769	-16.162	-197.534	1.00	0.00	C
ATOM	14931	HA	LEU	M	140	-0.530	-17.178	-197.845	1.00	0.00	H
ATOM	14932	C	LEU	M	140	-0.869	-16.126	-195.998	1.00	0.00	C
ATOM	14933	O	LEU	M	140	-0.847	-15.074	-195.366	1.00	0.00	O
ATOM	14934	CB	LEU	M	140	0.328	-15.214	-198.064	1.00	0.00	C
ATOM	14935	1HB	LEU	M	140	0.367	-15.295	-199.151	1.00	0.00	H
ATOM	14936	2HB	LEU	M	140	0.043	-14.190	-197.820	1.00	0.00	H
ATOM	14937	CG	LEU	M	140	1.737	-15.475	-197.490	1.00	0.00	C
ATOM	14938	HG	LEU	M	140	1.723	-15.366	-196.406	1.00	0.00	H
ATOM	14939	CD1	LEU	M	140	2.248	-16.882	-197.828	1.00	0.00	C
ATOM	14940	1HD1	LEU	M	140	1.648	-17.625	-197.306	1.00	0.00	H
ATOM	14941	2HD1	LEU	M	140	3.286	-16.970	-197.517	1.00	0.00	H
ATOM	14942	3HD1	LEU	M	140	2.179	-17.041	-198.904	1.00	0.00	H
ATOM	14943	CD2	LEU	M	140	2.737	-14.468	-198.054	1.00	0.00	C
ATOM	14944	1HD2	LEU	M	140	2.749	-14.501	-199.143	1.00	0.00	H
ATOM	14945	2HD2	LEU	M	140	3.736	-14.655	-197.663	1.00	0.00	H
ATOM	14946	3HD2	LEU	M	140	2.452	-13.465	-197.732	1.00	0.00	H
ATOM	14947	N	THR	M	141	-0.959	-17.301	-195.377	1.00	0.00	N
ATOM	14948	H	THR	M	141	-1.099	-18.131	-195.928	1.00	0.00	H
ATOM	14949	CA	THR	M	141	-0.675	-17.460	-193.942	1.00	0.00	C
ATOM	14950	HA	THR	M	141	-1.272	-16.745	-193.381	1.00	0.00	H
ATOM	14951	C	THR	M	141	0.802	-17.191	-193.652	1.00	0.00	C
ATOM	14952	O	THR	M	141	1.659	-17.642	-194.412	1.00	0.00	O
ATOM	14953	CB	THR	M	141	-1.036	-18.888	-193.496	1.00	0.00	C
ATOM	14954	HB	THR	M	141	-0.591	-19.592	-194.201	1.00	0.00	H
ATOM	14955	OG1	THR	M	141	-2.430	-19.048	-193.547	1.00	0.00	O
ATOM	14956	HG1	THR	M	141	-2.811	-18.514	-192.825	1.00	0.00	H
ATOM	14957	CG2	THR	M	141	-0.580	-19.292	-192.091	1.00	0.00	C
ATOM	14958	1HG2	THR	M	141	0.501	-19.430	-192.078	1.00	0.00	H
ATOM	14959	2HG2	THR	M	141	-1.052	-20.234	-191.811	1.00	0.00	H
ATOM	14960	3HG2	THR	M	141	-0.847	-18.528	-191.363	1.00	0.00	H
ATOM	14961	N	ASP	M	142	1.079	-16.536	-192.523	1.00	0.00	N

ATOM	14962	H	ASP	M	142	0.317	-15.990-192.139	1.00	0.00	H
ATOM	14963	CA	ASP	M	142	2.356	-16.354-191.809	1.00	0.00	C
ATOM	14964	HA	ASP	M	142	2.779	-15.402-192.139	1.00	0.00	H
ATOM	14965	C	ASP	M	142	3.439	-17.449-191.995	1.00	0.00	C
ATOM	14966	O	ASP	M	142	3.165	-18.627-192.244	1.00	0.00	O
ATOM	14967	CB	ASP	M	142	1.985	-16.204-190.319	1.00	0.00	C
ATOM	14968	1HB	ASP	M	142	1.196	-15.463-190.235	1.00	0.00	H
ATOM	14969	2HB	ASP	M	142	1.591	-17.156-189.959	1.00	0.00	H
ATOM	14970	CG	ASP	M	142	3.111	-15.750-189.392	1.00	0.00	C
ATOM	14971	OD1	ASP	M	142	4.165	-15.303-189.904	1.00	0.00	O
ATOM	14972	OD2	ASP	M	142	2.939	-15.883-188.158	1.00	0.00	O
ATOM	14973	N	LYS	M	143	4.712	-17.062-191.844	1.00	0.00	N
ATOM	14974	H	LYS	M	143	4.827	-16.096-191.534	1.00	0.00	H
ATOM	14975	CA	LYS	M	143	5.896	-17.945-191.806	1.00	0.00	C
ATOM	14976	HA	LYS	M	143	5.551	-18.971-191.677	1.00	0.00	H
ATOM	14977	C	LYS	M	143	6.847	-17.680-190.620	1.00	0.00	C
ATOM	14978	O	LYS	M	143	7.830	-18.407-190.489	1.00	0.00	O
ATOM	14979	CB	LYS	M	143	6.695	-17.814-193.127	1.00	0.00	C
ATOM	14980	1HB	LYS	M	143	6.144	-17.248-193.875	1.00	0.00	H
ATOM	14981	2HB	LYS	M	143	7.592	-17.222-192.933	1.00	0.00	H
ATOM	14982	CG	LYS	M	143	7.140	-19.174-193.702	1.00	0.00	C
ATOM	14983	1HG	LYS	M	143	8.163	-19.067-194.064	1.00	0.00	H
ATOM	14984	2HG	LYS	M	143	7.165	-19.918-192.904	1.00	0.00	H
ATOM	14985	CD	LYS	M	143	6.299	-19.720-194.872	1.00	0.00	C
ATOM	14986	1HD	LYS	M	143	6.500	-19.127-195.766	1.00	0.00	H
ATOM	14987	2HD	LYS	M	143	6.643	-20.736-195.072	1.00	0.00	H
ATOM	14988	CE	LYS	M	143	4.786	-19.772-194.620	1.00	0.00	C
ATOM	14989	1HE	LYS	M	143	4.346	-20.562-195.233	1.00	0.00	H
ATOM	14990	2HE	LYS	M	143	4.606	-20.024-193.569	1.00	0.00	H
ATOM	14991	NZ	LYS	M	143	4.127	-18.485-194.941	1.00	0.00	N
ATOM	14992	1HZ	LYS	M	143	3.153	-18.495-194.630	1.00	0.00	H
ATOM	14993	2HZ	LYS	M	143	4.136	-18.248-195.920	1.00	0.00	H
ATOM	14994	3HZ	LYS	M	143	4.525	-17.727-194.404	1.00	0.00	H
ATOM	14995	N	PHE	M	144	6.613	-16.634-189.824	1.00	0.00	N
ATOM	14996	H	PHE	M	144	5.726	-16.149-189.926	1.00	0.00	H
ATOM	14997	CA	PHE	M	144	7.648	-15.960-189.025	1.00	0.00	C
ATOM	14998	HA	PHE	M	144	8.348	-16.699-188.636	1.00	0.00	H
ATOM	14999	C	PHE	M	144	7.115	-15.159-187.815	1.00	0.00	C
ATOM	15000	O	PHE	M	144	7.776	-15.132-186.780	1.00	0.00	O
ATOM	15001	CB	PHE	M	144	8.395	-15.028-190.003	1.00	0.00	C
ATOM	15002	1HB	PHE	M	144	8.883	-15.640-190.762	1.00	0.00	H
ATOM	15003	2HB	PHE	M	144	7.653	-14.413-190.516	1.00	0.00	H
ATOM	15004	CG	PHE	M	144	9.448	-14.104-189.419	1.00	0.00	C
ATOM	15005	CD1	PHE	M	144	10.430	-14.592-188.534	1.00	0.00	C
ATOM	15006	HD1	PHE	M	144	10.423	-15.629-188.235	1.00	0.00	H
ATOM	15007	CD2	PHE	M	144	9.463	-12.746-189.794	1.00	0.00	C
ATOM	15008	HD2	PHE	M	144	8.723	-12.359-190.482	1.00	0.00	H
ATOM	15009	CE1	PHE	M	144	11.406	-13.724-188.012	1.00	0.00	C
ATOM	15010	HE1	PHE	M	144	12.139	-14.092-187.311	1.00	0.00	H
ATOM	15011	CE2	PHE	M	144	10.439	-11.879-189.272	1.00	0.00	C
ATOM	15012	HE2	PHE	M	144	10.430	-10.833-189.550	1.00	0.00	H
ATOM	15013	CZ	PHE	M	144	11.408	-12.366-188.378	1.00	0.00	C
ATOM	15014	HZ	PHE	M	144	12.143	-11.691-187.964	1.00	0.00	H
ATOM	15015	N	GLY	M	145	5.932	-14.547-187.921	1.00	0.00	N
ATOM	15016	H	GLY	M	145	5.368	-14.750-188.740	1.00	0.00	H
ATOM	15017	CA	GLY	M	145	5.309	-13.668-186.919	1.00	0.00	C
ATOM	15018	1HA	GLY	M	145	4.888	-14.280-186.123	1.00	0.00	H
ATOM	15019	2HA	GLY	M	145	6.076	-13.021-186.491	1.00	0.00	H
ATOM	15020	C	GLY	M	145	4.194	-12.763-187.481	1.00	0.00	C
ATOM	15021	O	GLY	M	145	3.331	-12.327-186.723	1.00	0.00	O
ATOM	15022	N	GLN	M	146	4.195	-12.558-188.801	1.00	0.00	N
ATOM	15023	H	GLN	M	146	4.889	-13.078-189.310	1.00	0.00	H
ATOM	15024	CA	GLN	M	146	3.347	-11.702-189.654	1.00	0.00	C
ATOM	15025	HA	GLN	M	146	3.337	-10.692-189.245	1.00	0.00	H
ATOM	15026	C	GLN	M	146	1.867	-12.200-189.740	1.00	0.00	C
ATOM	15027	O	GLN	M	146	1.535	-13.167-189.047	1.00	0.00	O
ATOM	15028	CB	GLN	M	146	4.071	-11.645-191.016	1.00	0.00	C
ATOM	15029	1HB	GLN	M	146	3.887	-12.570-191.564	1.00	0.00	H
ATOM	15030	2HB	GLN	M	146	3.677	-10.813-191.587	1.00	0.00	H
ATOM	15031	CG	GLN	M	146	5.595	-11.408-190.931	1.00	0.00	C
ATOM	15032	1HG	GLN	M	146	5.797	-10.515-190.339	1.00	0.00	H
ATOM	15033	2HG	GLN	M	146	6.091	-12.255-190.459	1.00	0.00	H
ATOM	15034	CD	GLN	M	146	6.197	-11.240-192.316	1.00	0.00	C
ATOM	15035	OE1	GLN	M	146	6.853	-12.148-192.817	1.00	0.00	O
ATOM	15036	NE2	GLN	M	146	5.978	-10.112-192.947	1.00	0.00	N
ATOM	15037	1HE2	GLN	M	146	6.156	-10.052-193.939	1.00	0.00	H
ATOM	15038	2HE2	GLN	M	146	5.455	-9.375-192.462	1.00	0.00	H

ATOM	15039	N	PRO	M	147	0.912	-11.628	-190.512	1.00	0.00	N
ATOM	15040	CA	PRO	M	147	-0.502	-12.005	-190.396	1.00	0.00	C
ATOM	15041	HA	PRO	M	147	-0.805	-11.920	-189.355	1.00	0.00	H
ATOM	15042	C	PRO	M	147	-0.768	-13.442	-190.848	1.00	0.00	C
ATOM	15043	O	PRO	M	147	-0.222	-13.947	-191.830	1.00	0.00	O
ATOM	15044	CB	PRO	M	147	-1.297	-10.983	-191.204	1.00	0.00	C
ATOM	15045	1HB	PRO	M	147	-2.196	-11.408	-191.653	1.00	0.00	H
ATOM	15046	2HB	PRO	M	147	-1.541	-10.137	-190.563	1.00	0.00	H
ATOM	15047	CG	PRO	M	147	-0.297	-10.536	-192.254	1.00	0.00	C
ATOM	15048	1HG	PRO	M	147	-0.261	-11.265	-193.060	1.00	0.00	H
ATOM	15049	2HG	PRO	M	147	-0.530	-9.542	-192.634	1.00	0.00	H
ATOM	15050	CD	PRO	M	147	1.030	-10.578	-191.510	1.00	0.00	C
ATOM	15051	1HD	PRO	M	147	1.803	-10.787	-192.243	1.00	0.00	H
ATOM	15052	2HD	PRO	M	147	1.186	-9.629	-191.011	1.00	0.00	H
ATOM	15053	N	LYS	M	148	-1.646	-14.134	-190.121	1.00	0.00	N
ATOM	15054	H	LYS	M	148	-2.199	-13.639	-189.425	1.00	0.00	H
ATOM	15055	CA	LYS	M	148	-1.799	-15.592	-190.210	1.00	0.00	C
ATOM	15056	HA	LYS	M	148	-0.856	-16.015	-190.541	1.00	0.00	H
ATOM	15057	C	LYS	M	148	-2.803	-16.026	-191.294	1.00	0.00	C
ATOM	15058	O	LYS	M	148	-2.999	-17.221	-191.511	1.00	0.00	O
ATOM	15059	CB	LYS	M	148	-2.062	-16.172	-188.810	1.00	0.00	C
ATOM	15060	1HB	LYS	M	148	-2.997	-15.774	-188.423	1.00	0.00	H
ATOM	15061	2HB	LYS	M	148	-2.159	-17.251	-188.926	1.00	0.00	H
ATOM	15062	CG	LYS	M	148	-0.943	-15.934	-187.770	1.00	0.00	C
ATOM	15063	1HG	LYS	M	148	-1.007	-16.727	-187.024	1.00	0.00	H
ATOM	15064	2HG	LYS	M	148	0.026	-16.020	-188.256	1.00	0.00	H
ATOM	15065	CD	LYS	M	148	-1.039	-14.589	-187.024	1.00	0.00	C
ATOM	15066	1HD	LYS	M	148	-0.972	-13.759	-187.722	1.00	0.00	H
ATOM	15067	2HD	LYS	M	148	-2.010	-14.530	-186.530	1.00	0.00	H
ATOM	15068	CE	LYS	M	148	0.056	-14.397	-185.965	1.00	0.00	C
ATOM	15069	1HE	LYS	M	148	-0.193	-13.493	-185.399	1.00	0.00	H
ATOM	15070	2HE	LYS	M	148	0.058	-15.244	-185.275	1.00	0.00	H
ATOM	15071	NZ	LYS	M	148	1.392	-14.219	-186.577	1.00	0.00	N
ATOM	15072	1HZ	LYS	M	148	1.350	-13.550	-187.345	1.00	0.00	H
ATOM	15073	2HZ	LYS	M	148	1.794	-15.052	-187.013	1.00	0.00	H
ATOM	15074	3HZ	LYS	M	148	2.074	-13.797	-185.958	1.00	0.00	H
ATOM	15075	N	GLY	M	149	-3.300	-15.066	-192.075	1.00	0.00	N
ATOM	15076	H	GLY	M	149	-3.094	-14.120	-191.801	1.00	0.00	H
ATOM	15077	CA	GLY	M	149	-4.136	-15.268	-193.257	1.00	0.00	C
ATOM	15078	1HA	GLY	M	149	-3.705	-16.057	-193.874	1.00	0.00	H
ATOM	15079	2HA	GLY	M	149	-5.133	-15.580	-192.941	1.00	0.00	H
ATOM	15080	C	GLY	M	149	-4.268	-14.011	-194.123	1.00	0.00	C
ATOM	15081	O	GLY	M	149	-5.382	-13.691	-194.529	1.00	0.00	O
ATOM	15082	N	PHE	M	150	-3.176	-13.267	-194.364	1.00	0.00	N
ATOM	15083	H	PHE	M	150	-2.270	-13.639	-194.108	1.00	0.00	H
ATOM	15084	CA	PHE	M	150	-3.187	-12.111	-195.284	1.00	0.00	C
ATOM	15085	HA	PHE	M	150	-3.852	-11.357	-194.866	1.00	0.00	H
ATOM	15086	C	PHE	M	150	-3.775	-12.532	-196.636	1.00	0.00	C
ATOM	15087	O	PHE	M	150	-3.397	-13.569	-197.177	1.00	0.00	O
ATOM	15088	CB	PHE	M	150	-1.775	-11.479	-195.395	1.00	0.00	C
ATOM	15089	1HB	PHE	M	150	-1.774	-10.563	-194.804	1.00	0.00	H
ATOM	15090	2HB	PHE	M	150	-1.066	-12.165	-194.931	1.00	0.00	H
ATOM	15091	CG	PHE	M	150	-1.215	-11.133	-196.776	1.00	0.00	C
ATOM	15092	CD1	PHE	M	150	-1.955	-10.388	-197.718	1.00	0.00	C
ATOM	15093	HD1	PHE	M	150	-2.915	-9.974	-197.452	1.00	0.00	H
ATOM	15094	CD2	PHE	M	150	0.100	-11.515	-197.106	1.00	0.00	C
ATOM	15095	HD2	PHE	M	150	0.726	-12.010	-196.375	1.00	0.00	H
ATOM	15096	CE1	PHE	M	150	-1.447	-10.151	-199.008	1.00	0.00	C
ATOM	15097	HE1	PHE	M	150	-2.042	-9.610	-199.726	1.00	0.00	H
ATOM	15098	CE2	PHE	M	150	0.634	-11.222	-198.374	1.00	0.00	C
ATOM	15099	HE2	PHE	M	150	1.659	-11.482	-198.593	1.00	0.00	H
ATOM	15100	CZ	PHE	M	150	-0.147	-10.568	-199.339	1.00	0.00	C
ATOM	15101	HZ	PHE	M	150	0.267	-10.353	-200.316	1.00	0.00	H
ATOM	15102	N	ALA	M	151	-4.702	-11.748	-197.183	1.00	0.00	N
ATOM	15103	H	ALA	M	151	-4.910	-10.863	-196.733	1.00	0.00	H
ATOM	15104	CA	ALA	M	151	-5.387	-12.066	-198.433	1.00	0.00	C
ATOM	15105	HA	ALA	M	151	-4.834	-12.838	-198.961	1.00	0.00	H
ATOM	15106	C	ALA	M	151	-5.463	-10.863	-199.379	1.00	0.00	C
ATOM	15107	O	ALA	M	151	-5.200	-9.728	-198.987	1.00	0.00	O
ATOM	15108	CB	ALA	M	151	-6.783	-12.612	-198.090	1.00	0.00	C
ATOM	15109	1HB	ALA	M	151	-7.281	-12.960	-198.996	1.00	0.00	H
ATOM	15110	2HB	ALA	M	151	-7.385	-11.827	-197.630	1.00	0.00	H
ATOM	15111	3HB	ALA	M	151	-6.698	-13.444	-197.392	1.00	0.00	H
ATOM	15112	N	TYR	M	152	-5.888	-11.106	-200.618	1.00	0.00	N
ATOM	15113	H	TYR	M	152	-6.030	-12.071	-200.898	1.00	0.00	H
ATOM	15114	CA	TYR	M	152	-6.477	-10.067	-201.462	1.00	0.00	C
ATOM	15115	HA	TYR	M	152	-6.941	-9.353	-200.785	1.00	0.00	H

ATOM	15116	C	TYR	M	152	-7.603	-10.635-202.340	1.00	0.00	C
ATOM	15117	O	TYR	M	152	-7.637	-11.840-202.610	1.00	0.00	O
ATOM	15118	CB	TYR	M	152	-5.395	-9.312-202.261	1.00	0.00	C
ATOM	15119	1HB	TYR	M	152	-5.831	-8.383-202.627	1.00	0.00	H
ATOM	15120	2HB	TYR	M	152	-4.592	-9.022-201.582	1.00	0.00	H
ATOM	15121	CG	TYR	M	152	-4.783	-10.033-203.447	1.00	0.00	C
ATOM	15122	CD1	TYR	M	152	-5.153	-9.660-204.755	1.00	0.00	C
ATOM	15123	HD1	TYR	M	152	-5.883	-8.876-204.910	1.00	0.00	H
ATOM	15124	CD2	TYR	M	152	-3.801	-11.023-203.249	1.00	0.00	C
ATOM	15125	HD2	TYR	M	152	-3.496	-11.292-202.247	1.00	0.00	H
ATOM	15126	CE1	TYR	M	152	-4.561	-10.289-205.867	1.00	0.00	C
ATOM	15127	HE1	TYR	M	152	-4.843	-9.994-206.867	1.00	0.00	H
ATOM	15128	CE2	TYR	M	152	-3.204	-11.652-204.359	1.00	0.00	C
ATOM	15129	HE2	TYR	M	152	-2.427	-12.392-204.224	1.00	0.00	H
ATOM	15130	CZ	TYR	M	152	-3.590	-11.295-205.669	1.00	0.00	C
ATOM	15131	OH	TYR	M	152	-3.023	-11.917-206.734	1.00	0.00	O
ATOM	15132	HH	TYR	M	152	-3.236	-11.473-207.556	1.00	0.00	H
ATOM	15133	N	VAL	M	153	-8.546	-9.779-202.750	1.00	0.00	N
ATOM	15134	H	VAL	M	153	-8.442	-8.805-202.472	1.00	0.00	H
ATOM	15135	CA	VAL	M	153	-9.771	-10.139-203.500	1.00	0.00	C
ATOM	15136	HA	VAL	M	153	-9.587	-11.070-204.026	1.00	0.00	H
ATOM	15137	C	VAL	M	153	-10.130	-9.085-204.552	1.00	0.00	C
ATOM	15138	O	VAL	M	153	-9.752	-7.931-204.386	1.00	0.00	O
ATOM	15139	CB	VAL	M	153	-10.988	-10.323-202.566	1.00	0.00	C
ATOM	15140	HB	VAL	M	153	-11.861	-10.508-203.190	1.00	0.00	H
ATOM	15141	CG1	VAL	M	153	-10.859	-11.534-201.644	1.00	0.00	C
ATOM	15142	1HG1	VAL	M	153	-10.024	-11.404-200.955	1.00	0.00	H
ATOM	15143	2HG1	VAL	M	153	-10.700	-12.416-202.255	1.00	0.00	H
ATOM	15144	3HG1	VAL	M	153	-11.781	-11.661-201.079	1.00	0.00	H
ATOM	15145	CG2	VAL	M	153	-11.282	-9.094-201.700	1.00	0.00	C
ATOM	15146	1HG2	VAL	M	153	-10.459	-8.903-201.010	1.00	0.00	H
ATOM	15147	2HG2	VAL	M	153	-12.195	-9.249-201.133	1.00	0.00	H
ATOM	15148	3HG2	VAL	M	153	-11.433	-8.222-202.332	1.00	0.00	H
ATOM	15149	N	GLU	M	154	-10.878	-9.441-205.606	1.00	0.00	N
ATOM	15150	H	GLU	M	154	-11.198	-10.400-205.666	1.00	0.00	H
ATOM	15151	CA	GLU	M	154	-11.145	-8.542-206.753	1.00	0.00	C
ATOM	15152	HA	GLU	M	154	-10.955	-7.518-206.436	1.00	0.00	H
ATOM	15153	C	GLU	M	154	-12.588	-8.549-207.288	1.00	0.00	C
ATOM	15154	O	GLU	M	154	-13.339	-9.507-207.080	1.00	0.00	O
ATOM	15155	CB	GLU	M	154	-10.150	-8.851-207.897	1.00	0.00	C
ATOM	15156	1HB	GLU	M	154	-10.170	-8.037-208.621	1.00	0.00	H
ATOM	15157	2HB	GLU	M	154	-9.151	-8.873-207.465	1.00	0.00	H
ATOM	15158	CG	GLU	M	154	-10.336	-10.183-208.649	1.00	0.00	C
ATOM	15159	1HG	GLU	M	154	-9.441	-10.360-209.249	1.00	0.00	H
ATOM	15160	2HG	GLU	M	154	-10.393	-10.992-207.916	1.00	0.00	H
ATOM	15161	CD	GLU	M	154	-11.557	-10.237-209.584	1.00	0.00	C
ATOM	15162	OE1	GLU	M	154	-12.319	-11.225-209.479	1.00	0.00	O
ATOM	15163	OE2	GLU	M	154	-11.758	-9.329-210.420	1.00	0.00	O
ATOM	15164	N	PHE	M	155	-12.937	-7.511-208.062	1.00	0.00	N
ATOM	15165	H	PHE	M	155	-12.268	-6.749-208.148	1.00	0.00	H
ATOM	15166	CA	PHE	M	155	-13.979	-7.598-209.095	1.00	0.00	C
ATOM	15167	HA	PHE	M	155	-13.954	-8.614-209.494	1.00	0.00	H
ATOM	15168	C	PHE	M	155	-13.706	-6.627-210.261	1.00	0.00	C
ATOM	15169	O	PHE	M	155	-13.833	-5.408-210.121	1.00	0.00	O
ATOM	15170	CB	PHE	M	155	-15.383	-7.381-208.507	1.00	0.00	C
ATOM	15171	1HB	PHE	M	155	-15.409	-7.803-207.506	1.00	0.00	H
ATOM	15172	2HB	PHE	M	155	-15.570	-6.315-208.392	1.00	0.00	H
ATOM	15173	CG	PHE	M	155	-16.499	-8.021-209.328	1.00	0.00	C
ATOM	15174	CD1	PHE	M	155	-17.146	-9.180-208.860	1.00	0.00	C
ATOM	15175	HD1	PHE	M	155	-16.846	-9.607-207.920	1.00	0.00	H
ATOM	15176	CD2	PHE	M	155	-16.892	-7.478-210.566	1.00	0.00	C
ATOM	15177	HD2	PHE	M	155	-16.421	-6.574-210.918	1.00	0.00	H
ATOM	15178	CE1	PHE	M	155	-18.169	-9.790-209.606	1.00	0.00	C
ATOM	15179	HE1	PHE	M	155	-18.647	-10.687-209.236	1.00	0.00	H
ATOM	15180	CE2	PHE	M	155	-17.907	-8.094-211.325	1.00	0.00	C
ATOM	15181	HE2	PHE	M	155	-18.201	-7.682-212.277	1.00	0.00	H
ATOM	15182	CZ	PHE	M	155	-18.547	-9.248-210.844	1.00	0.00	C
ATOM	15183	HZ	PHE	M	155	-19.325	-9.719-211.428	1.00	0.00	H
ATOM	15184	N	VAL	M	156	-13.381	-7.180-211.435	1.00	0.00	N
ATOM	15185	H	VAL	M	156	-13.063	-8.147-211.367	1.00	0.00	H
ATOM	15186	CA	VAL	M	156	-13.038	-6.448-212.676	1.00	0.00	C
ATOM	15187	HA	VAL	M	156	-12.033	-6.049-212.538	1.00	0.00	H
ATOM	15188	C	VAL	M	156	-13.944	-5.248-213.004	1.00	0.00	C
ATOM	15189	O	VAL	M	156	-13.428	-4.165-213.260	1.00	0.00	O
ATOM	15190	CB	VAL	M	156	-12.987	-7.405-213.889	1.00	0.00	C
ATOM	15191	HB	VAL	M	156	-13.996	-7.768-214.096	1.00	0.00	H
ATOM	15192	CG1	VAL	M	156	-12.463	-6.704-215.151	1.00	0.00	C

ATOM	15193	1HG1	VAL	M	156	-13.126	-5.889-215.441	1.00	0.00	H
ATOM	15194	2HG1	VAL	M	156	-12.412	-7.410-215.978	1.00	0.00	H
ATOM	15195	3HG1	VAL	M	156	-11.467	-6.300-214.963	1.00	0.00	H
ATOM	15196	CG2	VAL	M	156	-12.090	-8.625-213.645	1.00	0.00	C
ATOM	15197	1HG2	VAL	M	156	-11.102	-8.303-213.312	1.00	0.00	H
ATOM	15198	2HG2	VAL	M	156	-11.989	-9.214-214.556	1.00	0.00	H
ATOM	15199	3HG2	VAL	M	156	-12.524	-9.266-212.878	1.00	0.00	H
ATOM	15200	N	GLU	M	157	-15.274	-5.402-213.018	1.00	0.00	N
ATOM	15201	H	GLU	M	157	-15.651	-6.292-212.744	1.00	0.00	H
ATOM	15202	CA	GLU	M	157	-16.203	-4.294-213.331	1.00	0.00	C
ATOM	15203	HA	GLU	M	157	-15.900	-3.864-214.287	1.00	0.00	H
ATOM	15204	C	GLU	M	157	-16.144	-3.155-212.304	1.00	0.00	C
ATOM	15205	O	GLU	M	157	-16.091	-3.401-211.099	1.00	0.00	O
ATOM	15206	CB	GLU	M	157	-17.651	-4.797-213.450	1.00	0.00	C
ATOM	15207	1HB	GLU	M	157	-17.808	-5.598-212.733	1.00	0.00	H
ATOM	15208	2HB	GLU	M	157	-18.347	-3.998-213.188	1.00	0.00	H
ATOM	15209	CG	GLU	M	157	-17.994	-5.291-214.863	1.00	0.00	C
ATOM	15210	1HG	GLU	M	157	-17.187	-5.928-215.233	1.00	0.00	H
ATOM	15211	2HG	GLU	M	157	-18.894	-5.907-214.791	1.00	0.00	H
ATOM	15212	CD	GLU	M	157	-18.257	-4.140-215.854	1.00	0.00	C
ATOM	15213	OE1	GLU	M	157	-18.989	-4.393-216.840	1.00	0.00	O
ATOM	15214	OE2	GLU	M	157	-17.744	-3.020-215.617	1.00	0.00	O
ATOM	15215	N	ILE	M	158	-16.171	-1.910-212.792	1.00	0.00	N
ATOM	15216	H	ILE	M	158	-16.326	-1.820-213.790	1.00	0.00	H
ATOM	15217	CA	ILE	M	158	-15.677	-0.718-212.074	1.00	0.00	C
ATOM	15218	HA	ILE	M	158	-14.608	-0.841-211.914	1.00	0.00	H
ATOM	15219	C	ILE	M	158	-16.309	-0.563-210.678	1.00	0.00	C
ATOM	15220	O	ILE	M	158	-15.600	-0.554-209.671	1.00	0.00	O
ATOM	15221	CB	ILE	M	158	-15.836	0.549-212.956	1.00	0.00	C
ATOM	15222	HB	ILE	M	158	-16.843	0.564-213.375	1.00	0.00	H
ATOM	15223	CG1	ILE	M	158	-14.812	0.616-214.119	1.00	0.00	C
ATOM	15224	1HG1	ILE	M	158	-14.979	1.546-214.665	1.00	0.00	H
ATOM	15225	2HG1	ILE	M	158	-13.803	0.657-213.704	1.00	0.00	H
ATOM	15226	CG2	ILE	M	158	-15.646	1.844-212.141	1.00	0.00	C
ATOM	15227	1HG2	ILE	M	158	-16.433	1.961-211.395	1.00	0.00	H
ATOM	15228	2HG2	ILE	M	158	-15.685	2.716-212.793	1.00	0.00	H
ATOM	15229	3HG2	ILE	M	158	-14.680	1.834-211.631	1.00	0.00	H
ATOM	15230	CD1	ILE	M	158	-14.859	-0.520-215.149	1.00	0.00	C
ATOM	15231	1HD1	ILE	M	158	-14.463	-1.440-214.720	1.00	0.00	H
ATOM	15232	2HD1	ILE	M	158	-14.238	-0.253-216.004	1.00	0.00	H
ATOM	15233	3HD1	ILE	M	158	-15.883	-0.676-215.490	1.00	0.00	H
ATOM	15234	N	ASP	M	159	-17.640	-0.503-210.613	1.00	0.00	N
ATOM	15235	H	ASP	M	159	-18.159	-0.542-211.474	1.00	0.00	H
ATOM	15236	CA	ASP	M	159	-18.373	-0.192-209.376	1.00	0.00	C
ATOM	15237	HA	ASP	M	159	-17.869	0.641-208.884	1.00	0.00	H
ATOM	15238	C	ASP	M	159	-18.438	-1.366-208.376	1.00	0.00	C
ATOM	15239	O	ASP	M	159	-18.687	-1.178-207.188	1.00	0.00	O
ATOM	15240	CB	ASP	M	159	-19.785	0.272-209.760	1.00	0.00	C
ATOM	15241	1HB	ASP	M	159	-19.712	1.013-210.558	1.00	0.00	H
ATOM	15242	2HB	ASP	M	159	-20.352	-0.580-210.142	1.00	0.00	H
ATOM	15243	CG	ASP	M	159	-20.530	0.914-208.586	1.00	0.00	C
ATOM	15244	OD1	ASP	M	159	-21.669	0.474-208.311	1.00	0.00	O
ATOM	15245	OD2	ASP	M	159	-19.966	1.861-207.998	1.00	0.00	O
ATOM	15246	N	ALA	M	160	-18.201	-2.600-208.827	1.00	0.00	N
ATOM	15247	H	ALA	M	160	-17.871	-2.712-209.776	1.00	0.00	H
ATOM	15248	CA	ALA	M	160	-18.353	-3.788-207.989	1.00	0.00	C
ATOM	15249	HA	ALA	M	160	-19.372	-3.821-207.601	1.00	0.00	H
ATOM	15250	C	ALA	M	160	-17.407	-3.770-206.775	1.00	0.00	C
ATOM	15251	O	ALA	M	160	-17.866	-3.799-205.629	1.00	0.00	O
ATOM	15252	CB	ALA	M	160	-18.123	-5.010-208.872	1.00	0.00	C
ATOM	15253	1HB	ALA	M	160	-18.088	-5.898-208.248	1.00	0.00	H
ATOM	15254	2HB	ALA	M	160	-17.169	-4.917-209.387	1.00	0.00	H
ATOM	15255	3HB	ALA	M	160	-18.924	-5.102-209.605	1.00	0.00	H
ATOM	15256	N	VAL	M	161	-16.096	-3.641-207.022	1.00	0.00	N
ATOM	15257	H	VAL	M	161	-15.778	-3.634-207.981	1.00	0.00	H
ATOM	15258	CA	VAL	M	161	-15.118	-3.476-205.938	1.00	0.00	C
ATOM	15259	HA	VAL	M	161	-15.364	-4.227-205.192	1.00	0.00	H
ATOM	15260	C	VAL	M	161	-15.249	-2.117-205.238	1.00	0.00	C
ATOM	15261	O	VAL	M	161	-14.948	-2.039-204.057	1.00	0.00	O
ATOM	15262	CB	VAL	M	161	-13.674	-3.772-206.400	1.00	0.00	C
ATOM	15263	HB	VAL	M	161	-13.717	-4.512-207.201	1.00	0.00	H
ATOM	15264	CG1	VAL	M	161	-12.939	-2.539-206.933	1.00	0.00	C
ATOM	15265	1HG1	VAL	M	161	-12.660	-1.876-206.111	1.00	0.00	H
ATOM	15266	2HG1	VAL	M	161	-13.577	-1.994-207.622	1.00	0.00	H
ATOM	15267	3HG1	VAL	M	161	-12.029	-2.854-207.442	1.00	0.00	H
ATOM	15268	CG2	VAL	M	161	-12.851	-4.385-205.260	1.00	0.00	C
ATOM	15269	1HG2	VAL	M	161	-12.796	-3.693-204.418	1.00	0.00	H



ATOM	15270	2HG2	VAL	M	161	-11.839	-4.596-205.607	1.00	0.00	H
ATOM	15271	3HG2	VAL	M	161	-13.307	-5.318-204.931	1.00	0.00	H
ATOM	15272	N	GLN	M	162	-15.762	-1.076-205.910	1.00	0.00	N
ATOM	15273	H	GLN	M	162	-16.024	-1.203-206.875	1.00	0.00	H
ATOM	15274	CA	GLN	M	162	-16.020	0.242-205.306	1.00	0.00	C
ATOM	15275	HA	GLN	M	162	-15.090	0.609-204.872	1.00	0.00	H
ATOM	15276	C	GLN	M	162	-17.054	0.179-204.167	1.00	0.00	C
ATOM	15277	O	GLN	M	162	-16.948	0.915-203.194	1.00	0.00	O
ATOM	15278	CB	GLN	M	162	-16.446	1.224-206.410	1.00	0.00	C
ATOM	15279	1HB	GLN	M	162	-15.730	1.157-207.231	1.00	0.00	H
ATOM	15280	2HB	GLN	M	162	-17.428	0.943-206.777	1.00	0.00	H
ATOM	15281	CG	GLN	M	162	-16.518	2.686-205.952	1.00	0.00	C
ATOM	15282	1HG	GLN	M	162	-17.351	2.816-205.261	1.00	0.00	H
ATOM	15283	2HG	GLN	M	162	-15.593	2.953-205.440	1.00	0.00	H
ATOM	15284	CD	GLN	M	162	-16.706	3.629-207.137	1.00	0.00	C
ATOM	15285	OE1	GLN	M	162	-15.826	4.372-207.523	1.00	0.00	O
ATOM	15286	NE2	GLN	M	162	-17.828	3.621-207.822	1.00	0.00	N
ATOM	15287	1HE2	GLN	M	162	-17.880	4.301-208.550	1.00	0.00	H
ATOM	15288	2HE2	GLN	M	162	-18.602	2.983-207.614	1.00	0.00	H
ATOM	15289	N	ASN	M	163	-18.016	-0.749-204.240	1.00	0.00	N
ATOM	15290	H	ASN	M	163	-18.089	-1.287-205.093	1.00	0.00	H
ATOM	15291	CA	ASN	M	163	-18.878	-1.082-203.104	1.00	0.00	C
ATOM	15292	HA	ASN	M	163	-19.125	-0.173-202.549	1.00	0.00	H
ATOM	15293	C	ASN	M	163	-18.161	-2.034-202.121	1.00	0.00	C
ATOM	15294	O	ASN	M	163	-18.183	-1.818-200.911	1.00	0.00	O
ATOM	15295	CB	ASN	M	163	-20.184	-1.714-203.626	1.00	0.00	C
ATOM	15296	1HB	ASN	M	163	-19.954	-2.534-204.304	1.00	0.00	H
ATOM	15297	2HB	ASN	M	163	-20.735	-2.118-202.776	1.00	0.00	H
ATOM	15298	CG	ASN	M	163	-21.112	-0.732-204.331	1.00	0.00	C
ATOM	15299	OD1	ASN	M	163	-22.089	-0.267-203.769	1.00	0.00	O
ATOM	15300	ND2	ASN	M	163	-20.882	-0.459-205.593	1.00	0.00	N
ATOM	15301	1HD2	ASN	M	163	-21.468	0.204-206.085	1.00	0.00	H
ATOM	15302	2HD2	ASN	M	163	-20.036	-0.764-206.054	1.00	0.00	H
ATOM	15303	N	ALA	M	164	-17.526	-3.103-202.622	1.00	0.00	N
ATOM	15304	H	ALA	M	164	-17.511	-3.230-203.626	1.00	0.00	H
ATOM	15305	CA	ALA	M	164	-16.901	-4.130-201.778	1.00	0.00	C
ATOM	15306	HA	ALA	M	164	-17.661	-4.498-201.086	1.00	0.00	H
ATOM	15307	C	ALA	M	164	-15.725	-3.628-200.910	1.00	0.00	C
ATOM	15308	O	ALA	M	164	-15.450	-4.226-199.870	1.00	0.00	O
ATOM	15309	CB	ALA	M	164	-16.459	-5.306-202.657	1.00	0.00	C
ATOM	15310	1HB	ALA	M	164	-16.227	-6.163-202.023	1.00	0.00	H
ATOM	15311	2HB	ALA	M	164	-15.563	-5.035-203.212	1.00	0.00	H
ATOM	15312	3HB	ALA	M	164	-17.252	-5.585-203.352	1.00	0.00	H
ATOM	15313	N	LEU	M	165	-15.045	-2.546-201.309	1.00	0.00	N
ATOM	15314	H	LEU	M	165	-15.272	-2.143-202.212	1.00	0.00	H
ATOM	15315	CA	LEU	M	165	-13.943	-1.930-200.561	1.00	0.00	C
ATOM	15316	HA	LEU	M	165	-13.349	-2.740-200.143	1.00	0.00	H
ATOM	15317	C	LEU	M	165	-14.390	-1.084-199.358	1.00	0.00	C
ATOM	15318	O	LEU	M	165	-13.532	-0.728-198.558	1.00	0.00	O
ATOM	15319	CB	LEU	M	165	-13.003	-1.164-201.521	1.00	0.00	C
ATOM	15320	1HB	LEU	M	165	-12.068	-0.966-200.997	1.00	0.00	H
ATOM	15321	2HB	LEU	M	165	-12.769	-1.843-202.341	1.00	0.00	H
ATOM	15322	CG	LEU	M	165	-13.498	0.171-202.121	1.00	0.00	C
ATOM	15323	HG	LEU	M	165	-14.559	0.094-202.352	1.00	0.00	H
ATOM	15324	CD1	LEU	M	165	-13.258	1.380-201.214	1.00	0.00	C
ATOM	15325	1HD1	LEU	M	165	-13.780	1.279-200.268	1.00	0.00	H
ATOM	15326	2HD1	LEU	M	165	-13.623	2.287-201.699	1.00	0.00	H
ATOM	15327	3HD1	LEU	M	165	-12.194	1.498-201.007	1.00	0.00	H
ATOM	15328	CD2	LEU	M	165	-12.727	0.459-203.414	1.00	0.00	C
ATOM	15329	1HD2	LEU	M	165	-11.660	0.539-203.202	1.00	0.00	H
ATOM	15330	2HD2	LEU	M	165	-13.068	1.402-203.844	1.00	0.00	H
ATOM	15331	3HD2	LEU	M	165	-12.891	-0.338-204.135	1.00	0.00	H
ATOM	15332	N	LEU	M	166	-15.694	-0.812-199.211	1.00	0.00	N
ATOM	15333	H	LEU	M	166	-16.323	-1.171-199.916	1.00	0.00	H
ATOM	15334	CA	LEU	M	166	-16.231	0.253-198.346	1.00	0.00	C
ATOM	15335	HA	LEU	M	166	-15.412	0.665-197.754	1.00	0.00	H
ATOM	15336	C	LEU	M	166	-17.306	-0.235-197.347	1.00	0.00	C
ATOM	15337	O	LEU	M	166	-17.934	0.557-196.652	1.00	0.00	O
ATOM	15338	CB	LEU	M	166	-16.771	1.343-199.302	1.00	0.00	C
ATOM	15339	1HB	LEU	M	166	-16.056	1.478-200.114	1.00	0.00	H
ATOM	15340	2HB	LEU	M	166	-17.694	0.975-199.752	1.00	0.00	H
ATOM	15341	CG	LEU	M	166	-17.042	2.737-198.703	1.00	0.00	C
ATOM	15342	HG	LEU	M	166	-17.842	2.683-197.968	1.00	0.00	H
ATOM	15343	CD1	LEU	M	166	-15.802	3.349-198.052	1.00	0.00	C
ATOM	15344	1HD1	LEU	M	166	-15.525	2.785-197.162	1.00	0.00	H
ATOM	15345	2HD1	LEU	M	166	-16.011	4.373-197.742	1.00	0.00	H
ATOM	15346	3HD1	LEU	M	166	-14.966	3.356-198.753	1.00	0.00	H

ATOM	15347	CD2	LEU	M	166	-17.502	3.671-199.825	1.00	0.00	C
ATOM	15348	1HD2	LEU	M	166	-17.732	4.653-199.409	1.00	0.00	H
ATOM	15349	2HD2	LEU	M	166	-18.395	3.268-200.301	1.00	0.00	H
ATOM	15350	3HD2	LEU	M	166	-16.711	3.780-200.568	1.00	0.00	H
ATOM	15351	N	LEU	M	167	-17.570	-1.545-197.295	1.00	0.00	N
ATOM	15352	H	LEU	M	167	-16.988	-2.135-197.869	1.00	0.00	H
ATOM	15353	CA	LEU	M	167	-18.715	-2.155-196.592	1.00	0.00	C
ATOM	15354	HA	LEU	M	167	-19.083	-1.460-195.836	1.00	0.00	H
ATOM	15355	C	LEU	M	167	-18.300	-3.441-195.840	1.00	0.00	C
ATOM	15356	O	LEU	M	167	-19.017	-4.445-195.849	1.00	0.00	O
ATOM	15357	CB	LEU	M	167	-19.839	-2.421-197.622	1.00	0.00	C
ATOM	15358	1HB	LEU	M	167	-19.451	-3.118-198.366	1.00	0.00	H
ATOM	15359	2HB	LEU	M	167	-20.667	-2.904-197.104	1.00	0.00	H
ATOM	15360	CG	LEU	M	167	-20.411	-1.192-198.359	1.00	0.00	C
ATOM	15361	HG	LEU	M	167	-19.611	-0.630-198.837	1.00	0.00	H
ATOM	15362	CD1	LEU	M	167	-21.377	-1.662-199.450	1.00	0.00	C
ATOM	15363	1HD1	LEU	M	167	-21.755	-0.800-199.999	1.00	0.00	H
ATOM	15364	2HD1	LEU	M	167	-22.207	-2.215-199.012	1.00	0.00	H
ATOM	15365	3HD1	LEU	M	167	-20.846	-2.309-200.148	1.00	0.00	H
ATOM	15366	CD2	LEU	M	167	-21.189	-0.266-197.422	1.00	0.00	C
ATOM	15367	1HD2	LEU	M	167	-21.590	0.573-197.989	1.00	0.00	H
ATOM	15368	2HD2	LEU	M	167	-20.517	0.136-196.663	1.00	0.00	H
ATOM	15369	3HD2	LEU	M	167	-21.999	-0.807-196.936	1.00	0.00	H
ATOM	15370	N	ASN	M	168	-17.080	-3.457-195.299	1.00	0.00	N
ATOM	15371	H	ASN	M	168	-16.569	-2.580-195.319	1.00	0.00	H
ATOM	15372	CA	ASN	M	168	-16.253	-4.668-195.230	1.00	0.00	C
ATOM	15373	HA	ASN	M	168	-16.897	-5.549-195.218	1.00	0.00	H
ATOM	15374	C	ASN	M	168	-15.320	-4.795-194.004	1.00	0.00	C
ATOM	15375	O	ASN	M	168	-15.178	-5.892-193.469	1.00	0.00	O
ATOM	15376	CB	ASN	M	168	-15.408	-4.689-196.527	1.00	0.00	C
ATOM	15377	1HB	ASN	M	168	-14.770	-5.567-196.518	1.00	0.00	H
ATOM	15378	2HB	ASN	M	168	-16.070	-4.765-197.388	1.00	0.00	H
ATOM	15379	CG	ASN	M	168	-14.511	-3.468-196.720	1.00	0.00	C
ATOM	15380	OD1	ASN	M	168	-14.671	-2.434-196.098	1.00	0.00	O
ATOM	15381	ND2	ASN	M	168	-13.545	-3.530-197.593	1.00	0.00	N
ATOM	15382	1HD2	ASN	M	168	-13.083	-2.638-197.742	1.00	0.00	H
ATOM	15383	2HD2	ASN	M	168	-13.515	-4.283-198.255	1.00	0.00	H
ATOM	15384	N	GLU	M	169	-14.640	-3.728-193.587	1.00	0.00	N
ATOM	15385	H	GLU	M	169	-14.794	-2.854-194.079	1.00	0.00	H
ATOM	15386	CA	GLU	M	169	-13.392	-3.811-192.809	1.00	0.00	C
ATOM	15387	HA	GLU	M	169	-12.854	-4.693-193.157	1.00	0.00	H
ATOM	15388	C	GLU	M	169	-13.542	-4.021-191.286	1.00	0.00	C
ATOM	15389	O	GLU	M	169	-12.708	-3.548-190.517	1.00	0.00	O
ATOM	15390	CB	GLU	M	169	-12.498	-2.606-193.150	1.00	0.00	C
ATOM	15391	1HB	GLU	M	169	-11.525	-2.777-192.690	1.00	0.00	H
ATOM	15392	2HB	GLU	M	169	-12.336	-2.580-194.229	1.00	0.00	H
ATOM	15393	CG	GLU	M	169	-13.046	-1.237-192.700	1.00	0.00	C
ATOM	15394	1HG	GLU	M	169	-13.752	-0.869-193.447	1.00	0.00	H
ATOM	15395	2HG	GLU	M	169	-13.581	-1.345-191.755	1.00	0.00	H
ATOM	15396	CD	GLU	M	169	-11.899	-0.237-192.514	1.00	0.00	C
ATOM	15397	OE1	GLU	M	169	-10.965	-0.252-193.345	1.00	0.00	O
ATOM	15398	OE2	GLU	M	169	-11.862	0.458-191.473	1.00	0.00	O
ATOM	15399	N	THR	M	170	-14.580	-4.728-190.832	1.00	0.00	N
ATOM	15400	H	THR	M	170	-15.240	-5.064-191.519	1.00	0.00	H
ATOM	15401	CA	THR	M	170	-14.914	-4.823-189.393	1.00	0.00	C
ATOM	15402	HA	THR	M	170	-14.058	-4.491-188.806	1.00	0.00	H
ATOM	15403	C	THR	M	170	-15.217	-6.252-188.913	1.00	0.00	C
ATOM	15404	O	THR	M	170	-15.071	-6.529-187.725	1.00	0.00	O
ATOM	15405	CB	THR	M	170	-16.081	-3.873-189.046	1.00	0.00	C
ATOM	15406	HB	THR	M	170	-17.005	-4.322-189.410	1.00	0.00	H
ATOM	15407	OG1	THR	M	170	-15.941	-2.623-189.683	1.00	0.00	O
ATOM	15408	HG1	THR	M	170	-15.348	-2.054-189.140	1.00	0.00	H
ATOM	15409	CG2	THR	M	170	-16.234	-3.588-187.552	1.00	0.00	C
ATOM	15410	1HG2	THR	M	170	-16.538	-4.491-187.025	1.00	0.00	H
ATOM	15411	2HG2	THR	M	170	-16.995	-2.822-187.402	1.00	0.00	H
ATOM	15412	3HG2	THR	M	170	-15.290	-3.230-187.140	1.00	0.00	H
ATOM	15413	N	GLU	M	171	-15.578	-7.197-189.796	1.00	0.00	N
ATOM	15414	H	GLU	M	171	-15.635	-6.964-190.776	1.00	0.00	H
ATOM	15415	CA	GLU	M	171	-15.888	-8.584-189.395	1.00	0.00	C
ATOM	15416	HA	GLU	M	171	-15.293	-8.822-188.513	1.00	0.00	H
ATOM	15417	C	GLU	M	171	-15.528	-9.612-190.483	1.00	0.00	C
ATOM	15418	O	GLU	M	171	-16.099	-9.621-191.578	1.00	0.00	O
ATOM	15419	CB	GLU	M	171	-17.373	-8.693-188.987	1.00	0.00	C
ATOM	15420	1HB	GLU	M	171	-17.632	-7.802-188.413	1.00	0.00	H
ATOM	15421	2HB	GLU	M	171	-18.011	-8.704-189.872	1.00	0.00	H
ATOM	15422	CG	GLU	M	171	-17.695	-9.901-188.089	1.00	0.00	C
ATOM	15423	1HG	GLU	M	171	-16.944	-9.972-187.298	1.00	0.00	H

ATOM	15424	2HG	GLU	M	171	-18.654	-9.712	-187.600	1.00	0.00	H
ATOM	15425	CD	GLU	M	171	-17.793	-11.235	-188.842	1.00	0.00	O
ATOM	15426	OE1	GLU	M	171	-18.856	-11.506	-189.444	1.00	0.00	C
ATOM	15427	OE2	GLU	M	171	-16.822	-12.025	-188.785	1.00	0.00	O
ATOM	15428	N	LEU	M	172	-14.597	-10.511	-190.153	1.00	0.00	N
ATOM	15429	H	LEU	M	172	-14.162	-10.433	-189.238	1.00	0.00	H
ATOM	15430	CA	LEU	M	172	-14.245	-11.681	-190.956	1.00	0.00	C
ATOM	15431	HA	LEU	M	172	-15.071	-11.899	-191.629	1.00	0.00	H
ATOM	15432	C	LEU	M	172	-14.020	-12.890	-190.035	1.00	0.00	C
ATOM	15433	O	LEU	M	172	-13.249	-12.803	-189.076	1.00	0.00	O
ATOM	15434	CB	LEU	M	172	-12.973	-11.359	-191.772	1.00	0.00	C
ATOM	15435	1HB	LEU	M	172	-12.886	-10.277	-191.889	1.00	0.00	H
ATOM	15436	2HB	LEU	M	172	-12.105	-11.679	-191.196	1.00	0.00	H
ATOM	15437	CG	LEU	M	172	-12.884	-11.988	-193.175	1.00	0.00	C
ATOM	15438	HG	LEU	M	172	-11.849	-11.928	-193.510	1.00	0.00	H
ATOM	15439	CD1	LEU	M	172	-13.293	-13.458	-193.220	1.00	0.00	C
ATOM	15440	1HD1	LEU	M	172	-14.365	-13.561	-193.076	1.00	0.00	H
ATOM	15441	2HD1	LEU	M	172	-12.766	-14.001	-192.440	1.00	0.00	H
ATOM	15442	3HD1	LEU	M	172	-13.025	-13.893	-194.178	1.00	0.00	H
ATOM	15443	CD2	LEU	M	172	-13.732	-11.192	-194.162	1.00	0.00	C
ATOM	15444	1HD2	LEU	M	172	-13.687	-11.637	-195.154	1.00	0.00	H
ATOM	15445	2HD2	LEU	M	172	-13.353	-10.173	-194.218	1.00	0.00	H
ATOM	15446	3HD2	LEU	M	172	-14.760	-11.148	-193.811	1.00	0.00	H
ATOM	15447	N	HIS	M	173	-14.630	-14.044	-190.339	1.00	0.00	N
ATOM	15448	H	HIS	M	173	-15.285	-14.052	-191.112	1.00	0.00	H
ATOM	15449	CA	HIS	M	173	-14.431	-15.302	-189.598	1.00	0.00	C
ATOM	15450	HA	HIS	M	173	-15.168	-16.013	-189.976	1.00	0.00	H
ATOM	15451	C	HIS	M	173	-14.714	-15.166	-188.073	1.00	0.00	C
ATOM	15452	O	HIS	M	173	-14.218	-15.937	-187.248	1.00	0.00	O
ATOM	15453	CB	HIS	M	173	-13.036	-15.850	-189.986	1.00	0.00	C
ATOM	15454	1HB	HIS	M	173	-12.994	-15.933	-191.073	1.00	0.00	H
ATOM	15455	2HB	HIS	M	173	-12.272	-15.134	-189.683	1.00	0.00	H
ATOM	15456	CG	HIS	M	173	-12.656	-17.197	-189.428	1.00	0.00	C
ATOM	15457	ND1	HIS	M	173	-13.171	-18.415	-189.790	1.00	0.00	N
ATOM	15458	HD1	HIS	M	173	-13.805	-18.574	-190.584	1.00	0.00	H
ATOM	15459	CD2	HIS	M	173	-11.653	-17.443	-188.537	1.00	0.00	C
ATOM	15460	HD2	HIS	M	173	-11.011	-16.688	-188.108	1.00	0.00	H
ATOM	15461	CE1	HIS	M	173	-12.515	-19.368	-189.111	1.00	0.00	C
ATOM	15462	HE1	HIS	M	173	-12.661	-20.431	-189.255	1.00	0.00	H
ATOM	15463	NE2	HIS	M	173	-11.615	-18.822	-188.271	1.00	0.00	N
ATOM	15464	N	GLY	M	174	-15.509	-14.173	-187.657	1.00	0.00	N
ATOM	15465	H	GLY	M	174	-15.897	-13.530	-188.352	1.00	0.00	H
ATOM	15466	CA	GLY	M	174	-15.829	-13.865	-186.261	1.00	0.00	C
ATOM	15467	1HA	GLY	M	174	-16.772	-13.317	-186.249	1.00	0.00	H
ATOM	15468	2HA	GLY	M	174	-15.960	-14.789	-185.699	1.00	0.00	H
ATOM	15469	C	GLY	M	174	-14.789	-12.998	-185.540	1.00	0.00	C
ATOM	15470	O	GLY	M	174	-14.732	-13.040	-184.311	1.00	0.00	O
ATOM	15471	N	ARG	M	175	-13.933	-12.266	-186.266	1.00	0.00	N
ATOM	15472	H	ARG	M	175	-14.033	-12.289	-187.280	1.00	0.00	H
ATOM	15473	CA	ARG	M	175	-12.859	-11.406	-185.728	1.00	0.00	C
ATOM	15474	HA	ARG	M	175	-13.063	-11.175	-184.682	1.00	0.00	H
ATOM	15475	C	ARG	M	175	-12.784	-10.072	-186.485	1.00	0.00	C
ATOM	15476	O	ARG	M	175	-13.237	-9.976	-187.624	1.00	0.00	O
ATOM	15477	CB	ARG	M	175	-11.489	-12.110	-185.846	1.00	0.00	C
ATOM	15478	1HB	ARG	M	175	-11.335	-12.431	-186.879	1.00	0.00	H
ATOM	15479	2HB	ARG	M	175	-10.714	-11.373	-185.631	1.00	0.00	H
ATOM	15480	CG	ARG	M	175	-11.227	-13.294	-184.900	1.00	0.00	C
ATOM	15481	1HG	ARG	M	175	-10.150	-13.470	-184.913	1.00	0.00	H
ATOM	15482	2HG	ARG	M	175	-11.504	-13.021	-183.881	1.00	0.00	H
ATOM	15483	CD	ARG	M	175	-11.939	-14.598	-185.291	1.00	0.00	C
ATOM	15484	1HD	ARG	M	175	-12.843	-14.711	-184.692	1.00	0.00	H
ATOM	15485	2HD	ARG	M	175	-12.217	-14.544	-186.346	1.00	0.00	H
ATOM	15486	NE	ARG	M	175	-11.061	-15.765	-185.098	1.00	0.00	N
ATOM	15487	HE	ARG	M	175	-10.066	-15.576	-184.982	1.00	0.00	H
ATOM	15488	CZ	ARG	M	175	-11.328	-17.011	-185.424	1.00	0.00	C
ATOM	15489	NH1	ARG	M	175	-12.522	-17.437	-185.710	1.00	0.00	N
ATOM	15490	1HH1	ARG	M	175	-13.222	-16.727	-185.903	1.00	0.00	H
ATOM	15491	2HH1	ARG	M	175	-12.573	-18.271	-186.269	1.00	0.00	H
ATOM	15492	NH2	ARG	M	175	-10.353	-17.850	-185.574	1.00	0.00	N
ATOM	15493	1HH2	ARG	M	175	-9.431	-17.407	-185.622	1.00	0.00	H
ATOM	15494	2HH2	ARG	M	175	-10.518	-18.611	-186.209	1.00	0.00	H
ATOM	15495	N	GLN	M	176	-12.153	-9.069	-185.871	1.00	0.00	N
ATOM	15496	H	GLN	M	176	-11.800	-9.220	-184.943	1.00	0.00	H
ATOM	15497	CA	GLN	M	176	-11.683	-7.879	-186.589	1.00	0.00	C
ATOM	15498	HA	GLN	M	176	-12.506	-7.502	-187.201	1.00	0.00	H
ATOM	15499	C	GLN	M	176	-10.506	-8.210	-187.526	1.00	0.00	C
ATOM	15500	O	GLN	M	176	-9.770	-9.172	-187.301	1.00	0.00	O

ATOM	15501	CB	GLN	M	176	-11.285	-6.759-185.603	1.00	0.00	C
ATOM	15502	1HB	GLN	M	176	-11.092	-5.856-186.186	1.00	0.00	H
ATOM	15503	2HB	GLN	M	176	-12.129	-6.546-184.945	1.00	0.00	H
ATOM	15504	CG	GLN	M	176	-10.036	-7.050-184.743	1.00	0.00	C
ATOM	15505	1HG	GLN	M	176	-10.273	-7.801-183.990	1.00	0.00	H
ATOM	15506	2HG	GLN	M	176	-9.234	-7.440-185.369	1.00	0.00	H
ATOM	15507	CD	GLN	M	176	-9.520	-5.795-184.041	1.00	0.00	C
ATOM	15508	OE1	GLN	M	176	-10.251	-5.110-183.353	1.00	0.00	O
ATOM	15509	NE2	GLN	M	176	-8.258	-5.456-184.203	1.00	0.00	N
ATOM	15510	1HE2	GLN	M	176	-7.941	-4.582-183.785	1.00	0.00	H
ATOM	15511	2HE2	GLN	M	176	-7.629	-5.998-184.762	1.00	0.00	H
ATOM	15512	N	LEU	M	177	-10.296	-7.351-188.523	1.00	0.00	N
ATOM	15513	H	LEU	M	177	-10.966	-6.599-188.638	1.00	0.00	H
ATOM	15514	CA	LEU	M	177	-9.089	-7.207-189.348	1.00	0.00	C
ATOM	15515	HA	LEU	M	177	-8.216	-7.157-188.695	1.00	0.00	C
ATOM	15516	C	LEU	M	177	-9.177	-5.862-190.096	1.00	0.00	C
ATOM	15517	O	LEU	M	177	-10.187	-5.175-189.954	1.00	0.00	O
ATOM	15518	CB	LEU	M	177	-8.911	-8.421-190.284	1.00	0.00	C
ATOM	15519	1HB	LEU	M	177	-8.066	-8.227-190.944	1.00	0.00	H
ATOM	15520	2HB	LEU	M	177	-8.627	-9.270-189.662	1.00	0.00	H
ATOM	15521	CG	LEU	M	177	-10.120	-8.853-191.140	1.00	0.00	C
ATOM	15522	HG	LEU	M	177	-10.969	-9.087-190.499	1.00	0.00	H
ATOM	15523	CD1	LEU	M	177	-10.560	-7.803-192.163	1.00	0.00	C
ATOM	15524	1HD1	LEU	M	177	-9.697	-7.412-192.698	1.00	0.00	H
ATOM	15525	2HD1	LEU	M	177	-11.068	-6.986-191.652	1.00	0.00	H
ATOM	15526	3HD1	LEU	M	177	-11.269	-8.234-192.869	1.00	0.00	H
ATOM	15527	CD2	LEU	M	177	-9.723	-10.132-191.879	1.00	0.00	C
ATOM	15528	1HD2	LEU	M	177	-8.752	-10.012-192.350	1.00	0.00	H
ATOM	15529	2HD2	LEU	M	177	-10.457	-10.366-192.644	1.00	0.00	H
ATOM	15530	3HD2	LEU	M	177	-9.677	-10.953-191.165	1.00	0.00	H
ATOM	15531	N	LYS	M	178	-8.175	-5.478-190.900	1.00	0.00	N
ATOM	15532	H	LYS	M	178	-7.376	-6.094-191.013	1.00	0.00	H
ATOM	15533	CA	LYS	M	178	-8.231	-4.248-191.722	1.00	0.00	C
ATOM	15534	HA	LYS	M	178	-9.278	-3.996-191.879	1.00	0.00	C
ATOM	15535	C	LYS	M	178	-7.701	-4.469-193.147	1.00	0.00	H
ATOM	15536	O	LYS	M	178	-7.212	-5.548-193.485	1.00	0.00	O
ATOM	15537	CB	LYS	M	178	-7.570	-3.060-190.972	1.00	0.00	C
ATOM	15538	1HB	LYS	M	178	-6.574	-3.361-190.641	1.00	0.00	H
ATOM	15539	2HB	LYS	M	178	-7.442	-2.219-191.655	1.00	0.00	H
ATOM	15540	CG	LYS	M	178	-8.364	-2.543-189.746	1.00	0.00	C
ATOM	15541	1HG	LYS	M	178	-8.534	-3.363-189.050	1.00	0.00	H
ATOM	15542	2HG	LYS	M	178	-7.757	-1.807-189.222	1.00	0.00	H
ATOM	15543	CD	LYS	M	178	-9.710	-1.888-190.113	1.00	0.00	C
ATOM	15544	1HD	LYS	M	178	-9.524	-0.983-190.696	1.00	0.00	H
ATOM	15545	2HD	LYS	M	178	-10.286	-2.575-190.726	1.00	0.00	H
ATOM	15546	CE	LYS	M	178	-10.566	-1.534-188.887	1.00	0.00	C
ATOM	15547	1HE	LYS	M	178	-10.621	-2.408-188.234	1.00	0.00	H
ATOM	15548	2HE	LYS	M	178	-10.092	-0.712-188.345	1.00	0.00	H
ATOM	15549	NZ	LYS	M	178	-11.936	-1.154-189.308	1.00	0.00	N
ATOM	15550	1HZ	LYS	M	178	-12.375	-1.921-189.807	1.00	0.00	H
ATOM	15551	2HZ	LYS	M	178	-11.929	-0.362-189.956	1.00	0.00	H
ATOM	15552	3HZ	LYS	M	178	-12.594	-0.938-188.557	1.00	0.00	H
ATOM	15553	N	VAL	M	179	-7.899	-3.469-194.007	1.00	0.00	N
ATOM	15554	H	VAL	M	179	-8.227	-2.596-193.618	1.00	0.00	H
ATOM	15555	CA	VAL	M	179	-7.949	-3.590-195.482	1.00	0.00	C
ATOM	15556	HA	VAL	M	179	-7.570	-4.565-195.782	1.00	0.00	H
ATOM	15557	C	VAL	M	179	-7.062	-2.522-196.149	1.00	0.00	C
ATOM	15558	O	VAL	M	179	-6.706	-1.530-195.516	1.00	0.00	O
ATOM	15559	CB	VAL	M	179	-9.436	-3.485-195.925	1.00	0.00	C
ATOM	15560	HB	VAL	M	179	-9.863	-2.588-195.476	1.00	0.00	H
ATOM	15561	CG1	VAL	M	179	-9.686	-3.398-197.438	1.00	0.00	C
ATOM	15562	1HG1	VAL	M	179	-9.249	-4.253-197.950	1.00	0.00	H
ATOM	15563	2HG1	VAL	M	179	-9.279	-2.471-197.840	1.00	0.00	H
ATOM	15564	3HG1	VAL	M	179	-10.758	-3.381-197.632	1.00	0.00	H
ATOM	15565	CG2	VAL	M	179	-10.240	-4.698-195.422	1.00	0.00	C
ATOM	15566	1HG2	VAL	M	179	-10.227	-4.742-194.334	1.00	0.00	H
ATOM	15567	2HG2	VAL	M	179	-9.818	-5.617-195.829	1.00	0.00	H
ATOM	15568	3HG2	VAL	M	179	-11.280	-4.608-195.736	1.00	0.00	H
ATOM	15569	N	SER	M	180	-6.697	-2.685-197.423	1.00	0.00	N
ATOM	15570	H	SER	M	180	-6.983	-3.542-197.890	1.00	0.00	H
ATOM	15571	CA	SER	M	180	-6.106	-1.631-198.280	1.00	0.00	C
ATOM	15572	HA	SER	M	180	-6.527	-0.662-198.014	1.00	0.00	H
ATOM	15573	C	SER	M	180	-6.436	-1.879-199.758	1.00	0.00	C
ATOM	15574	O	SER	M	180	-6.859	-2.977-200.108	1.00	0.00	O
ATOM	15575	CB	SER	M	180	-4.582	-1.570-198.090	1.00	0.00	C
ATOM	15576	1HB	SER	M	180	-4.153	-2.568-198.174	1.00	0.00	H
ATOM	15577	2HB	SER	M	180	-4.134	-0.935-198.856	1.00	0.00	H

ATOM	15578	OG	SER	M	180	-4.283	-1.026-196.820	1.00	0.00	O
ATOM	15579	HG	SER	M	180	-5.016	-1.232-196.218	1.00	0.00	H
ATOM	15580	N	ALA	M	181	-6.258	-0.892-200.639	1.00	0.00	N
ATOM	15581	H	ALA	M	181	-5.900	-0.005-200.320	1.00	0.00	H
ATOM	15582	CA	ALA	M	181	-6.316	-1.109-202.092	1.00	0.00	C
ATOM	15583	HA	ALA	M	181	-7.214	-1.675-202.335	1.00	0.00	H
ATOM	15584	C	ALA	M	181	-5.102	-1.919-202.598	1.00	0.00	C
ATOM	15585	O	ALA	M	181	-4.094	-2.020-201.893	1.00	0.00	O
ATOM	15586	CB	ALA	M	181	-6.415	0.257-202.781	1.00	0.00	C
ATOM	15587	1HB	ALA	M	181	-7.290	0.797-202.416	1.00	0.00	H
ATOM	15588	2HB	ALA	M	181	-6.513	0.123-203.859	1.00	0.00	H
ATOM	15589	3HB	ALA	M	181	-5.519	0.846-202.579	1.00	0.00	H
ATOM	15590	N	LYS	M	182	-5.182	-2.485-203.812	1.00	0.00	N
ATOM	15591	H	LYS	M	182	-6.054	-2.439-204.330	1.00	0.00	H
ATOM	15592	CA	LYS	M	182	-4.049	-3.156-204.468	1.00	0.00	C
ATOM	15593	HA	LYS	M	182	-3.133	-2.671-204.126	1.00	0.00	H
ATOM	15594	C	LYS	M	182	-4.048	-2.971-205.984	1.00	0.00	C
ATOM	15595	O	LYS	M	182	-5.035	-3.317-206.676	1.00	0.00	O
ATOM	15596	OXT	LYS	M	182	-2.988	-2.582-206.510	1.00	0.00	O
ATOM	15597	CB	LYS	M	182	-4.005	-4.638-204.046	1.00	0.00	C
ATOM	15598	1HB	LYS	M	182	-4.296	-4.717-202.997	1.00	0.00	H
ATOM	15599	2HB	LYS	M	182	-4.715	-5.209-204.641	1.00	0.00	H
ATOM	15600	CG	LYS	M	182	-2.593	-5.223-204.192	1.00	0.00	C
ATOM	15601	1HG	LYS	M	182	-2.268	-5.149-205.232	1.00	0.00	H
ATOM	15602	2HG	LYS	M	182	-1.912	-4.638-203.572	1.00	0.00	H
ATOM	15603	CD	LYS	M	182	-2.533	-6.692-203.749	1.00	0.00	C
ATOM	15604	1HD	LYS	M	182	-3.014	-6.802-202.776	1.00	0.00	H
ATOM	15605	2HD	LYS	M	182	-3.059	-7.308-204.480	1.00	0.00	H
ATOM	15606	CE	LYS	M	182	-1.068	-7.132-203.640	1.00	0.00	C
ATOM	15607	1HE	LYS	M	182	-0.544	-6.854-204.559	1.00	0.00	H
ATOM	15608	2HE	LYS	M	182	-0.596	-6.591-202.814	1.00	0.00	H
ATOM	15609	NZ	LYS	M	182	-0.932	-8.590-203.429	1.00	0.00	N
ATOM	15610	1HZ	LYS	M	182	-1.162	-9.098-204.280	1.00	0.00	H
ATOM	15611	2HZ	LYS	M	182	-1.483	-8.932-202.663	1.00	0.00	H
ATOM	15612	3HZ	LYS	M	182	0.046	-8.812-203.225	1.00	0.00	H
TER	15613		LYS	M	182					
ATOM	15614	N	ASP	N	106	-12.006	-19.132-223.841	1.00	0.00	N
ATOM	15615	1H	ASP	N	106	-11.059	-19.206-224.172	1.00	0.00	H
ATOM	15616	2H	ASP	N	106	-12.239	-19.950-223.289	1.00	0.00	H
ATOM	15617	3H	ASP	N	106	-12.041	-18.347-223.194	1.00	0.00	H
ATOM	15618	CA	ASP	N	106	-12.964	-18.934-224.942	1.00	0.00	C
ATOM	15619	HA	ASP	N	106	-12.649	-18.059-225.510	1.00	0.00	H
ATOM	15620	C	ASP	N	106	-14.410	-18.660-224.488	1.00	0.00	C
ATOM	15621	O	ASP	N	106	-15.158	-18.144-225.313	1.00	0.00	O
ATOM	15622	CB	ASP	N	106	-12.935	-20.150-225.879	1.00	0.00	C
ATOM	15623	1HB	ASP	N	106	-13.440	-19.894-226.812	1.00	0.00	H
ATOM	15624	2HB	ASP	N	106	-11.903	-20.419-226.108	1.00	0.00	H
ATOM	15625	CG	ASP	N	106	-13.648	-21.322-225.209	1.00	0.00	C
ATOM	15626	OD1	ASP	N	106	-13.157	-21.747-224.137	1.00	0.00	O
ATOM	15627	OD2	ASP	N	106	-14.764	-21.658-225.635	1.00	0.00	O
ATOM	15628	N	SER	N	107	-14.821	-19.065-223.270	1.00	0.00	N
ATOM	15629	H	SER	N	107	-14.085	-19.273-222.590	1.00	0.00	H
ATOM	15630	CA	SER	N	107	-16.192	-19.147-222.683	1.00	0.00	C
ATOM	15631	HA	SER	N	107	-16.130	-18.642-221.718	1.00	0.00	H
ATOM	15632	C	SER	N	107	-16.646	-20.586-222.366	1.00	0.00	C
ATOM	15633	O	SER	N	107	-17.676	-20.793-221.711	1.00	0.00	O
ATOM	15634	CB	SER	N	107	-17.308	-18.436-223.468	1.00	0.00	C
ATOM	15635	1HB	SER	N	107	-18.221	-18.440-222.871	1.00	0.00	H
ATOM	15636	2HB	SER	N	107	-17.024	-17.398-223.648	1.00	0.00	H
ATOM	15637	OG	SER	N	107	-17.566	-19.081-224.700	1.00	0.00	O
ATOM	15638	HG	SER	N	107	-16.767	-18.906-225.233	1.00	0.00	H
ATOM	15639	N	ARG	N	108	-15.888	-21.605-222.796	1.00	0.00	N
ATOM	15640	H	ARG	N	108	-15.129	-21.397-223.442	1.00	0.00	H
ATOM	15641	CA	ARG	N	108	-16.098	-23.026-222.464	1.00	0.00	C
ATOM	15642	HA	ARG	N	108	-16.995	-23.122-221.871	1.00	0.00	H
ATOM	15643	C	ARG	N	108	-15.009	-23.594-221.556	1.00	0.00	C
ATOM	15644	O	ARG	N	108	-14.941	-24.809-221.367	1.00	0.00	O
ATOM	15645	CB	ARG	N	108	-16.255	-23.856-223.756	1.00	0.00	C
ATOM	15646	1HB	ARG	N	108	-15.311	-23.850-224.302	1.00	0.00	H
ATOM	15647	2HB	ARG	N	108	-16.453	-24.893-223.481	1.00	0.00	H
ATOM	15648	CG	ARG	N	108	-17.378	-23.391-224.705	1.00	0.00	C
ATOM	15649	1HG	ARG	N	108	-17.081	-22.470-225.203	1.00	0.00	H
ATOM	15650	2HG	ARG	N	108	-17.509	-24.152-225.475	1.00	0.00	H
ATOM	15651	CD	ARG	N	108	-18.730	-23.135-224.027	1.00	0.00	C
ATOM	15652	1HD	ARG	N	108	-18.681	-22.186-223.496	1.00	0.00	H
ATOM	15653	2HD	ARG	N	108	-19.493	-23.037-224.801	1.00	0.00	H
ATOM	15654	NE	ARG	N	108	-19.095	-24.233-223.118	1.00	0.00	N

ATOM	15655	HE	ARG	N	108	-19.117	-25.160	-223.525	1.00	0.00	H
ATOM	15656	CZ	ARG	N	108	-19.357	-24.169	-221.829	1.00	0.00	C
ATOM	15657	NH1	ARG	N	108	-19.471	-23.049	-221.169	1.00	0.00	N
ATOM	15658	1HH1	ARG	N	108	-19.122	-22.193	-221.591	1.00	0.00	H
ATOM	15659	2HH1	ARG	N	108	-19.599	-23.076	-220.175	1.00	0.00	H
ATOM	15660	NH2	ARG	N	108	-19.501	-25.272	-221.167	1.00	0.00	N
ATOM	15661	1HH2	ARG	N	108	-19.190	-26.153	-221.576	1.00	0.00	H
ATOM	15662	2HH2	ARG	N	108	-19.910	-25.279	-220.244	1.00	0.00	H
ATOM	15663	N	SER	N	109	-14.185	-22.725	-220.975	1.00	0.00	N
ATOM	15664	H	SER	N	109	-14.337	-21.738	-221.116	1.00	0.00	H
ATOM	15665	CA	SER	N	109	-12.957	-23.093	-220.282	1.00	0.00	C
ATOM	15666	HA	SER	N	109	-13.031	-24.128	-219.954	1.00	0.00	H
ATOM	15667	C	SER	N	109	-12.682	-22.279	-219.017	1.00	0.00	C
ATOM	15668	O	SER	N	109	-13.351	-21.286	-218.728	1.00	0.00	O
ATOM	15669	CB	SER	N	109	-11.786	-23.003	-221.266	1.00	0.00	C
ATOM	15670	1HB	SER	N	109	-10.852	-23.126	-220.725	1.00	0.00	H
ATOM	15671	2HB	SER	N	109	-11.888	-23.815	-221.979	1.00	0.00	H
ATOM	15672	OG	SER	N	109	-11.730	-21.803	-222.010	1.00	0.00	O
ATOM	15673	HG	SER	N	109	-12.384	-21.876	-222.745	1.00	0.00	H
ATOM	15674	N	ILE	N	110	-11.692	-22.751	-218.258	1.00	0.00	N
ATOM	15675	H	ILE	N	110	-11.209	-23.584	-218.578	1.00	0.00	H
ATOM	15676	CA	ILE	N	110	-11.171	-22.137	-217.034	1.00	0.00	C
ATOM	15677	HA	ILE	N	110	-11.463	-21.087	-217.015	1.00	0.00	H
ATOM	15678	C	ILE	N	110	-9.638	-22.171	-217.038	1.00	0.00	C
ATOM	15679	O	ILE	N	110	-9.034	-23.026	-217.692	1.00	0.00	O
ATOM	15680	CB	ILE	N	110	-11.732	-22.822	-215.760	1.00	0.00	C
ATOM	15681	HB	ILE	N	110	-11.213	-22.400	-214.899	1.00	0.00	H
ATOM	15682	CG1	ILE	N	110	-11.488	-24.347	-215.732	1.00	0.00	C
ATOM	15683	1HG1	ILE	N	110	-12.047	-24.819	-216.539	1.00	0.00	H
ATOM	15684	2HG1	ILE	N	110	-10.426	-24.532	-215.893	1.00	0.00	H
ATOM	15685	CG2	ILE	N	110	-13.224	-22.497	-215.591	1.00	0.00	C
ATOM	15686	1HG2	ILE	N	110	-13.557	-22.817	-214.606	1.00	0.00	H
ATOM	15687	2HG2	ILE	N	110	-13.815	-22.991	-216.360	1.00	0.00	H
ATOM	15688	3HG2	ILE	N	110	-13.377	-21.422	-215.657	1.00	0.00	H
ATOM	15689	CD1	ILE	N	110	-11.880	-25.020	-214.407	1.00	0.00	C
ATOM	15690	1HD1	ILE	N	110	-11.378	-24.524	-213.576	1.00	0.00	H
ATOM	15691	2HD1	ILE	N	110	-11.575	-26.066	-214.424	1.00	0.00	H
ATOM	15692	3HD1	ILE	N	110	-12.959	-24.981	-214.260	1.00	0.00	H
ATOM	15693	N	TYR	N	111	-9.038	-21.262	-216.277	1.00	0.00	N
ATOM	15694	H	TYR	N	111	-9.645	-20.641	-215.750	1.00	0.00	H
ATOM	15695	CA	TYR	N	111	-7.611	-21.144	-215.973	1.00	0.00	C
ATOM	15696	HA	TYR	N	111	-7.039	-21.884	-216.532	1.00	0.00	H
ATOM	15697	C	TYR	N	111	-7.392	-21.405	-214.473	1.00	0.00	C
ATOM	15698	O	TYR	N	111	-8.307	-21.239	-213.664	1.00	0.00	O
ATOM	15699	CB	TYR	N	111	-7.126	-19.740	-216.383	1.00	0.00	C
ATOM	15700	1HB	TYR	N	111	-6.982	-19.716	-217.464	1.00	0.00	H
ATOM	15701	2HB	TYR	N	111	-7.906	-19.012	-216.147	1.00	0.00	H
ATOM	15702	CG	TYR	N	111	-5.850	-19.286	-215.694	1.00	0.00	C
ATOM	15703	CD1	TYR	N	111	-5.937	-18.608	-214.460	1.00	0.00	C
ATOM	15704	HD1	TYR	N	111	-6.900	-18.377	-214.032	1.00	0.00	H
ATOM	15705	CD2	TYR	N	111	-4.585	-19.578	-216.245	1.00	0.00	C
ATOM	15706	HD2	TYR	N	111	-4.505	-20.089	-217.193	1.00	0.00	H
ATOM	15707	CE1	TYR	N	111	-4.768	-18.226	-213.778	1.00	0.00	C
ATOM	15708	HE1	TYR	N	111	-4.821	-17.684	-212.846	1.00	0.00	H
ATOM	15709	CE2	TYR	N	111	-3.413	-19.167	-215.576	1.00	0.00	C
ATOM	15710	HE2	TYR	N	111	-2.442	-19.346	-216.014	1.00	0.00	H
ATOM	15711	CZ	TYR	N	111	-3.504	-18.481	-214.344	1.00	0.00	C
ATOM	15712	OH	TYR	N	111	-2.393	-18.048	-213.694	1.00	0.00	O
ATOM	15713	HH	TYR	N	111	-1.672	-17.844	-214.309	1.00	0.00	H
ATOM	15714	N	VAL	N	112	-6.183	-21.823	-214.105	1.00	0.00	N
ATOM	15715	H	VAL	N	112	-5.469	-21.892	-214.825	1.00	0.00	H
ATOM	15716	CA	VAL	N	112	-5.795	-22.254	-212.759	1.00	0.00	C
ATOM	15717	HA	VAL	N	112	-6.498	-21.867	-212.024	1.00	0.00	H
ATOM	15718	C	VAL	N	112	-4.399	-21.710	-212.454	1.00	0.00	C
ATOM	15719	O	VAL	N	112	-3.492	-21.893	-213.264	1.00	0.00	O
ATOM	15720	CB	VAL	N	112	-5.776	-23.793	-212.690	1.00	0.00	C
ATOM	15721	HB	VAL	N	112	-4.966	-24.163	-213.316	1.00	0.00	H
ATOM	15722	CG1	VAL	N	112	-5.535	-24.273	-211.261	1.00	0.00	C
ATOM	15723	1HG1	VAL	N	112	-6.328	-23.903	-210.615	1.00	0.00	H
ATOM	15724	2HG1	VAL	N	112	-4.578	-23.899	-210.899	1.00	0.00	H
ATOM	15725	3HG1	VAL	N	112	-5.514	-25.362	-211.229	1.00	0.00	H
ATOM	15726	CG2	VAL	N	112	-7.078	-24.445	-213.179	1.00	0.00	C
ATOM	15727	1HG2	VAL	N	112	-7.924	-24.063	-212.609	1.00	0.00	H
ATOM	15728	2HG2	VAL	N	112	-7.008	-25.522	-213.055	1.00	0.00	H
ATOM	15729	3HG2	VAL	N	112	-7.229	-24.238	-214.238	1.00	0.00	H
ATOM	15730	N	GLY	N	113	-4.214	-21.101	-211.282	1.00	0.00	N
ATOM	15731	H	GLY	N	113	-4.987	-21.072	-210.623	1.00	0.00	H

ATOM	15732	CA	GLY	N	113	-2.981	-20.419-210.882	1.00	0.00	C
ATOM	15733	1HA	GLY	N	113	-2.139	-20.833-211.430	1.00	0.00	H
ATOM	15734	2HA	GLY	N	113	-3.057	-19.361-211.137	1.00	0.00	H
ATOM	15735	C	GLY	N	113	-2.670	-20.543-209.388	1.00	0.00	C
ATOM	15736	O	GLY	N	113	-3.475	-21.069-208.619	1.00	0.00	O
ATOM	15737	N	ASN	N	114	-1.476	-20.074-209.006	1.00	0.00	N
ATOM	15738	H	ASN	N	114	-0.935	-19.577-209.698	1.00	0.00	H
ATOM	15739	CA	ASN	N	114	-0.841	-20.292-207.698	1.00	0.00	C
ATOM	15740	HA	ASN	N	114	0.194	-19.981-207.797	1.00	0.00	H
ATOM	15741	C	ASN	N	114	-0.786	-21.782-207.284	1.00	0.00	C
ATOM	15742	O	ASN	N	114	-1.644	-22.264-206.548	1.00	0.00	O
ATOM	15743	CB	ASN	N	114	-1.472	-19.348-206.656	1.00	0.00	C
ATOM	15744	1HB	ASN	N	114	-1.543	-18.342-207.070	1.00	0.00	H
ATOM	15745	2HB	ASN	N	114	-2.477	-19.692-206.413	1.00	0.00	H
ATOM	15746	CG	ASN	N	114	-0.664	-19.260-205.374	1.00	0.00	C
ATOM	15747	OD1	ASN	N	114	0.424	-19.800-205.247	1.00	0.00	O
ATOM	15748	ND2	ASN	N	114	-1.161	-18.541-204.396	1.00	0.00	N
ATOM	15749	1HD2	ASN	N	114	-0.595	-18.437-203.573	1.00	0.00	H
ATOM	15750	2HD2	ASN	N	114	-2.012	-18.023-204.530	1.00	0.00	H
ATOM	15751	N	VAL	N	115	0.186	-22.535-207.824	1.00	0.00	N
ATOM	15752	H	VAL	N	115	0.920	-22.082-208.354	1.00	0.00	H
ATOM	15753	CA	VAL	N	115	0.192	-24.013-207.807	1.00	0.00	C
ATOM	15754	HA	VAL	N	115	-0.575	-24.350-207.110	1.00	0.00	H
ATOM	15755	C	VAL	N	115	1.531	-24.590-207.310	1.00	0.00	C
ATOM	15756	O	VAL	N	115	2.568	-23.927-207.306	1.00	0.00	O
ATOM	15757	CB	VAL	N	115	-0.173	-24.569-209.209	1.00	0.00	C
ATOM	15758	HB	VAL	N	115	0.677	-24.423-209.874	1.00	0.00	H
ATOM	15759	CG1	VAL	N	115	-0.519	-26.069-209.182	1.00	0.00	C
ATOM	15760	1HG1	VAL	N	115	0.383	-26.661-209.039	1.00	0.00	H
ATOM	15761	2HG1	VAL	N	115	-0.953	-26.378-210.133	1.00	0.00	H
ATOM	15762	3HG1	VAL	N	115	-1.232	-26.274-208.385	1.00	0.00	H
ATOM	15763	CG2	VAL	N	115	-1.378	-23.846-209.835	1.00	0.00	C
ATOM	15764	1HG2	VAL	N	115	-1.717	-24.361-210.733	1.00	0.00	H
ATOM	15765	2HG2	VAL	N	115	-1.089	-22.837-210.122	1.00	0.00	H
ATOM	15766	3HG2	VAL	N	115	-2.196	-23.795-209.117	1.00	0.00	H
ATOM	15767	N	ASP	N	116	1.501	-25.850-206.870	1.00	0.00	N
ATOM	15768	H	ASP	N	116	0.615	-26.326-206.889	1.00	0.00	H
ATOM	15769	CA	ASP	N	116	2.678	-26.641-206.506	1.00	0.00	C
ATOM	15770	HA	ASP	N	116	3.373	-25.999-205.963	1.00	0.00	H
ATOM	15771	C	ASP	N	116	3.400	-27.223-207.741	1.00	0.00	C
ATOM	15772	O	ASP	N	116	2.800	-27.883-208.596	1.00	0.00	O
ATOM	15773	CB	ASP	N	116	2.227	-27.763-205.564	1.00	0.00	C
ATOM	15774	1HB	ASP	N	116	1.673	-27.323-204.732	1.00	0.00	H
ATOM	15775	2HB	ASP	N	116	1.552	-28.435-206.096	1.00	0.00	H
ATOM	15776	CG	ASP	N	116	3.401	-28.568-205.009	1.00	0.00	C
ATOM	15777	OD1	ASP	N	116	3.558	-28.619-203.770	1.00	0.00	O
ATOM	15778	OD2	ASP	N	116	4.088	-29.265-205.783	1.00	0.00	O
ATOM	15779	N	TYR	N	117	4.722	-27.030-207.789	1.00	0.00	N
ATOM	15780	H	TYR	N	117	5.140	-26.541-207.015	1.00	0.00	H
ATOM	15781	CA	TYR	N	117	5.594	-27.382-208.914	1.00	0.00	C
ATOM	15782	HA	TYR	N	117	5.167	-26.920-209.803	1.00	0.00	H
ATOM	15783	C	TYR	N	117	5.715	-28.884-209.244	1.00	0.00	C
ATOM	15784	O	TYR	N	117	6.363	-29.218-210.240	1.00	0.00	O
ATOM	15785	CB	TYR	N	117	6.977	-26.753-208.676	1.00	0.00	C
ATOM	15786	1HB	TYR	N	117	7.595	-26.914-209.560	1.00	0.00	H
ATOM	15787	2HB	TYR	N	117	6.850	-25.675-208.567	1.00	0.00	H
ATOM	15788	CG	TYR	N	117	7.723	-27.276-207.459	1.00	0.00	C
ATOM	15789	CD1	TYR	N	117	7.740	-26.524-206.267	1.00	0.00	C
ATOM	15790	HD1	TYR	N	117	7.226	-25.574-206.213	1.00	0.00	H
ATOM	15791	CD2	TYR	N	117	8.386	-28.518-207.515	1.00	0.00	C
ATOM	15792	HD2	TYR	N	117	8.364	-29.098-208.428	1.00	0.00	H
ATOM	15793	CE1	TYR	N	117	8.409	-27.019-205.131	1.00	0.00	C
ATOM	15794	HE1	TYR	N	117	8.409	-26.459-204.207	1.00	0.00	H
ATOM	15795	CE2	TYR	N	117	9.043	-29.023-206.377	1.00	0.00	C
ATOM	15796	HE2	TYR	N	117	9.525	-29.986-206.416	1.00	0.00	H
ATOM	15797	CZ	TYR	N	117	9.051	-28.273-205.180	1.00	0.00	C
ATOM	15798	OH	TYR	N	117	9.682	-28.757-204.079	1.00	0.00	O
ATOM	15799	HH	TYR	N	117	10.001	-29.647-204.216	1.00	0.00	H
ATOM	15800	N	ALA	N	118	5.142	-29.788-208.442	1.00	0.00	N
ATOM	15801	H	ALA	N	118	4.674	-29.456-207.597	1.00	0.00	H
ATOM	15802	CA	ALA	N	118	5.154	-31.236-208.680	1.00	0.00	C
ATOM	15803	HA	ALA	N	118	5.894	-31.465-209.446	1.00	0.00	H
ATOM	15804	C	ALA	N	118	3.813	-31.801-209.205	1.00	0.00	C
ATOM	15805	O	ALA	N	118	3.742	-32.993-209.510	1.00	0.00	O
ATOM	15806	CB	ALA	N	118	5.606	-31.922-207.384	1.00	0.00	C
ATOM	15807	1HB	ALA	N	118	4.883	-31.720-206.594	1.00	0.00	H
ATOM	15808	2HB	ALA	N	118	6.580	-31.537-207.082	1.00	0.00	H

ATOM	15809	3HB	ALA	N	118	5.672	-32.998	-207.541	1.00	0.00	H
ATOM	15810	N	CYS	N	119	2.784	-30.957	-209.339	1.00	0.00	N
ATOM	15811	H	CYS	N	119	2.929	-29.990	-209.072	1.00	0.00	H
ATOM	15812	CA	CYS	N	119	1.463	-31.312	-209.868	1.00	0.00	C
ATOM	15813	HA	CYS	N	119	1.050	-32.122	-209.261	1.00	0.00	H
ATOM	15814	C	CYS	N	119	1.507	-31.792	-211.339	1.00	0.00	C
ATOM	15815	O	CYS	N	119	2.340	-31.338	-212.131	1.00	0.00	O
ATOM	15816	CB	CYS	N	119	0.587	-30.062	-209.699	1.00	0.00	C
ATOM	15817	1HB	CYS	N	119	0.705	-29.673	-208.686	1.00	0.00	H
ATOM	15818	2HB	CYS	N	119	0.912	-29.293	-210.402	1.00	0.00	H
ATOM	15819	SG	CYS	N	119	-1.161	-30.449	-209.970	1.00	0.00	S
ATOM	15820	HG	CYS	N	119	-1.621	-29.200	-209.828	1.00	0.00	H
ATOM	15821	N	THR	N	120	0.581	-32.675	-211.732	1.00	0.00	N
ATOM	15822	H	THR	N	120	-0.043	-33.042	-211.016	1.00	0.00	H
ATOM	15823	CA	THR	N	120	0.554	-33.338	-213.053	1.00	0.00	C
ATOM	15824	HA	THR	N	120	1.393	-32.969	-213.638	1.00	0.00	H
ATOM	15825	C	THR	N	120	-0.735	-33.066	-213.846	1.00	0.00	C
ATOM	15826	O	THR	N	120	-1.812	-32.914	-213.264	1.00	0.00	O
ATOM	15827	CB	THR	N	120	0.731	-34.862	-212.913	1.00	0.00	C
ATOM	15828	HB	THR	N	120	0.746	-35.299	-213.910	1.00	0.00	H
ATOM	15829	OG1	THR	N	120	-0.336	-35.447	-212.205	1.00	0.00	O
ATOM	15830	HG1	THR	N	120	-0.281	-35.115	-211.276	1.00	0.00	H
ATOM	15831	CG2	THR	N	120	2.031	-35.254	-212.212	1.00	0.00	C
ATOM	15832	1HG2	THR	N	120	2.877	-34.807	-212.733	1.00	0.00	H
ATOM	15833	2HG2	THR	N	120	2.131	-36.339	-212.223	1.00	0.00	H
ATOM	15834	3HG2	THR	N	120	2.024	-34.907	-211.178	1.00	0.00	H
ATOM	15835	N	PRO	N	121	-0.695	-33.052	-215.196	1.00	0.00	N
ATOM	15836	CA	PRO	N	121	-1.911	-32.909	-215.999	1.00	0.00	C
ATOM	15837	HA	PRO	N	121	-2.449	-32.013	-215.689	1.00	0.00	H
ATOM	15838	C	PRO	N	121	-2.858	-34.109	-215.839	1.00	0.00	C
ATOM	15839	O	PRO	N	121	-4.072	-33.956	-215.990	1.00	0.00	O
ATOM	15840	CB	PRO	N	121	-1.445	-32.731	-217.445	1.00	0.00	C
ATOM	15841	1HB	PRO	N	121	-2.118	-33.211	-218.156	1.00	0.00	H
ATOM	15842	2HB	PRO	N	121	-1.369	-31.668	-217.670	1.00	0.00	H
ATOM	15843	CG	PRO	N	121	-0.055	-33.368	-217.480	1.00	0.00	C
ATOM	15844	1HG	PRO	N	121	-0.149	-34.419	-217.750	1.00	0.00	H
ATOM	15845	2HG	PRO	N	121	0.600	-32.860	-218.189	1.00	0.00	H
ATOM	15846	CD	PRO	N	121	0.472	-33.247	-216.047	1.00	0.00	C
ATOM	15847	1HD	PRO	N	121	1.016	-34.152	-215.777	1.00	0.00	H
ATOM	15848	2HD	PRO	N	121	1.137	-32.389	-215.960	1.00	0.00	H
ATOM	15849	N	GLU	N	122	-2.328	-35.293	-215.521	1.00	0.00	N
ATOM	15850	H	GLU	N	122	-1.311	-35.380	-215.515	1.00	0.00	H
ATOM	15851	CA	GLU	N	122	-3.085	-36.503	-215.184	1.00	0.00	C
ATOM	15852	HA	GLU	N	122	-3.743	-36.757	-216.014	1.00	0.00	H
ATOM	15853	C	GLU	N	122	-3.981	-36.333	-213.948	1.00	0.00	C
ATOM	15854	O	GLU	N	122	-5.086	-36.876	-213.940	1.00	0.00	O
ATOM	15855	CB	GLU	N	122	-2.124	-37.686	-214.961	1.00	0.00	C
ATOM	15856	1HB	GLU	N	122	-1.351	-37.405	-214.243	1.00	0.00	H
ATOM	15857	2HB	GLU	N	122	-2.694	-38.506	-214.521	1.00	0.00	H
ATOM	15858	CG	GLU	N	122	-1.475	-38.232	-216.246	1.00	0.00	C
ATOM	15859	1HG	GLU	N	122	-0.923	-39.139	-215.989	1.00	0.00	H
ATOM	15860	2HG	GLU	N	122	-2.272	-38.521	-216.936	1.00	0.00	H
ATOM	15861	CD	GLU	N	122	-0.514	-37.256	-216.942	1.00	0.00	C
ATOM	15862	OE1	GLU	N	122	-0.475	-37.280	-218.193	1.00	0.00	O
ATOM	15863	OE2	GLU	N	122	0.169	-36.484	-216.231	1.00	0.00	O
ATOM	15864	N	GLU	N	123	-3.566	-35.561	-212.935	1.00	0.00	N
ATOM	15865	H	GLU	N	123	-2.632	-35.163	-212.962	1.00	0.00	H
ATOM	15866	CA	GLU	N	123	-4.393	-35.327	-211.742	1.00	0.00	C
ATOM	15867	HA	GLU	N	123	-5.126	-36.130	-211.687	1.00	0.00	H
ATOM	15868	C	GLU	N	123	-5.208	-34.029	-211.823	1.00	0.00	C
ATOM	15869	O	GLU	N	123	-6.378	-34.046	-211.443	1.00	0.00	O
ATOM	15870	CB	GLU	N	123	-3.571	-35.464	-210.453	1.00	0.00	C
ATOM	15871	1HB	GLU	N	123	-4.251	-35.688	-209.630	1.00	0.00	H
ATOM	15872	2HB	GLU	N	123	-2.904	-36.321	-210.568	1.00	0.00	H
ATOM	15873	CG	GLU	N	123	-2.754	-34.227	-210.073	1.00	0.00	C
ATOM	15874	1HG	GLU	N	123	-2.417	-33.722	-210.976	1.00	0.00	H
ATOM	15875	2HG	GLU	N	123	-3.383	-33.532	-209.513	1.00	0.00	H
ATOM	15876	CD	GLU	N	123	-1.533	-34.626	-209.248	1.00	0.00	C
ATOM	15877	OE1	GLU	N	123	-0.407	-34.483	-209.778	1.00	0.00	O
ATOM	15878	OE2	GLU	N	123	-1.695	-35.100	-208.103	1.00	0.00	O
ATOM	15879	N	VAL	N	124	-4.692	-32.951	-212.432	1.00	0.00	N
ATOM	15880	H	VAL	N	124	-3.710	-32.971	-212.699	1.00	0.00	H
ATOM	15881	CA	VAL	N	124	-5.480	-31.727	-212.699	1.00	0.00	C
ATOM	15882	HA	VAL	N	124	-5.773	-31.287	-211.746	1.00	0.00	H
ATOM	15883	C	VAL	N	124	-6.784	-32.057	-213.430	1.00	0.00	C
ATOM	15884	O	VAL	N	124	-7.855	-31.600	-213.030	1.00	0.00	O
ATOM	15885	CB	VAL	N	124	-4.650	-30.679	-213.472	1.00	0.00	C



ATOM	15886	HB	VAL	N	124	-4.186	-31.158-214.335	1.00	0.00	H
ATOM	15887	CG1	VAL	N	124	-5.482	-29.490-213.972	1.00	0.00	C
ATOM	15888	1HG1	VAL	N	124	-4.830	-28.760-214.453	1.00	0.00	H
ATOM	15889	2HG1	VAL	N	124	-5.985	-29.018-213.128	1.00	0.00	H
ATOM	15890	3HG1	VAL	N	124	-6.222	-29.815-214.703	1.00	0.00	H
ATOM	15891	CG2	VAL	N	124	-3.557	-30.097-212.572	1.00	0.00	C
ATOM	15892	1HG2	VAL	N	124	-2.951	-29.384-213.129	1.00	0.00	H
ATOM	15893	2HG2	VAL	N	124	-2.908	-30.891-212.209	1.00	0.00	H
ATOM	15894	3HG2	VAL	N	124	-4.002	-29.590-211.715	1.00	0.00	H
ATOM	15895	N	GLN	N	125	-6.732	-32.917-214.454	1.00	0.00	N
ATOM	15896	H	GLN	N	125	-5.833	-33.283-214.746	1.00	0.00	H
ATOM	15897	CA	GLN	N	125	-7.956	-33.366-215.118	1.00	0.00	C
ATOM	15898	HA	GLN	N	125	-8.542	-32.473-215.341	1.00	0.00	H
ATOM	15899	C	GLN	N	125	-8.847	-34.248-214.224	1.00	0.00	C
ATOM	15900	O	GLN	N	125	-10.062	-34.142-214.340	1.00	0.00	O
ATOM	15901	CB	GLN	N	125	-7.639	-34.029-216.470	1.00	0.00	C
ATOM	15902	1HB	GLN	N	125	-8.560	-34.102-217.049	1.00	0.00	H
ATOM	15903	2HB	GLN	N	125	-6.952	-33.382-217.018	1.00	0.00	H
ATOM	15904	CG	GLN	N	125	-7.029	-35.432-216.353	1.00	0.00	C
ATOM	15905	1HG	GLN	N	125	-6.219	-35.408-215.631	1.00	0.00	H
ATOM	15906	2HG	GLN	N	125	-7.782	-36.138-216.001	1.00	0.00	H
ATOM	15907	CD	GLN	N	125	-6.482	-35.922-217.686	1.00	0.00	C
ATOM	15908	OE1	GLN	N	125	-7.154	-36.577-218.468	1.00	0.00	O
ATOM	15909	NE2	GLN	N	125	-5.247	-35.604-217.998	1.00	0.00	N
ATOM	15910	1HE2	GLN	N	125	-4.871	-35.950-218.859	1.00	0.00	H
ATOM	15911	2HE2	GLN	N	125	-4.710	-35.037-217.346	1.00	0.00	H
ATOM	15912	N	GLN	N	126	-8.301	-35.097-213.338	1.00	0.00	N
ATOM	15913	H	GLN	N	126	-7.298	-35.080-213.201	1.00	0.00	H
ATOM	15914	CA	GLN	N	126	-9.103	-36.034-212.529	1.00	0.00	C
ATOM	15915	HA	GLN	N	126	-9.882	-36.425-213.183	1.00	0.00	H
ATOM	15916	C	GLN	N	126	-9.840	-35.350-211.363	1.00	0.00	C
ATOM	15917	O	GLN	N	126	-10.996	-35.684-211.094	1.00	0.00	O
ATOM	15918	CB	GLN	N	126	-8.260	-37.260-212.104	1.00	0.00	C
ATOM	15919	1HB	GLN	N	126	-8.906	-38.138-212.141	1.00	0.00	H
ATOM	15920	2HB	GLN	N	126	-7.495	-37.424-212.864	1.00	0.00	H
ATOM	15921	CG	GLN	N	126	-7.562	-37.231-210.725	1.00	0.00	C
ATOM	15922	1HG	GLN	N	126	-6.733	-37.938-210.744	1.00	0.00	H
ATOM	15923	2HG	GLN	N	126	-7.144	-36.249-210.544	1.00	0.00	H
ATOM	15924	CD	GLN	N	126	-8.467	-37.631-209.558	1.00	0.00	C
ATOM	15925	OE1	GLN	N	126	-9.248	-38.563-209.648	1.00	0.00	O
ATOM	15926	NE2	GLN	N	126	-8.396	-36.974-208.420	1.00	0.00	N
ATOM	15927	1HE2	GLN	N	126	-9.029	-37.264-207.696	1.00	0.00	H
ATOM	15928	2HE2	GLN	N	126	-7.721	-36.242-208.245	1.00	0.00	H
ATOM	15929	N	HIS	N	127	-9.222	-34.344-210.729	1.00	0.00	N
ATOM	15930	H	HIS	N	127	-8.273	-34.102-211.002	1.00	0.00	H
ATOM	15931	CA	HIS	N	127	-9.884	-33.523-209.709	1.00	0.00	C
ATOM	15932	HA	HIS	N	127	-10.253	-34.170-208.910	1.00	0.00	H
ATOM	15933	C	HIS	N	127	-11.105	-32.811-210.308	1.00	0.00	C
ATOM	15934	O	HIS	N	127	-12.219	-32.982-209.819	1.00	0.00	O
ATOM	15935	CB	HIS	N	127	-8.893	-32.521-209.090	1.00	0.00	C
ATOM	15936	1HB	HIS	N	127	-8.292	-32.067-209.880	1.00	0.00	H
ATOM	15937	2HB	HIS	N	127	-9.461	-31.726-208.604	1.00	0.00	H
ATOM	15938	CG	HIS	N	127	-7.977	-33.128-208.051	1.00	0.00	C
ATOM	15939	ND1	HIS	N	127	-7.955	-32.849-206.699	1.00	0.00	N
ATOM	15940	HD1	HIS	N	127	-8.436	-32.090-206.214	1.00	0.00	H
ATOM	15941	CD2	HIS	N	127	-7.016	-34.075-208.267	1.00	0.00	C
ATOM	15942	HD2	HIS	N	127	-6.759	-34.513-209.211	1.00	0.00	H
ATOM	15943	CE1	HIS	N	127	-7.036	-33.645-206.123	1.00	0.00	C
ATOM	15944	HE1	HIS	N	127	-6.779	-33.638-205.071	1.00	0.00	H
ATOM	15945	NE2	HIS	N	127	-6.436	-34.414-207.048	1.00	0.00	N
ATOM	15946	N	PHE	N	128	-10.944	-32.101-211.430	1.00	0.00	N
ATOM	15947	H	PHE	N	128	-10.011	-31.955-211.797	1.00	0.00	H
ATOM	15948	CA	PHE	N	128	-12.077	-31.427-212.075	1.00	0.00	C
ATOM	15949	HA	PHE	N	128	-12.630	-30.883-211.307	1.00	0.00	H
ATOM	15950	C	PHE	N	128	-13.092	-32.407-212.692	1.00	0.00	C
ATOM	15951	O	PHE	N	128	-14.294	-32.177-212.576	1.00	0.00	O
ATOM	15952	CB	PHE	N	128	-11.562	-30.404-213.095	1.00	0.00	C
ATOM	15953	1HB	PHE	N	128	-11.076	-30.949-213.907	1.00	0.00	H
ATOM	15954	2HB	PHE	N	128	-12.418	-29.877-213.518	1.00	0.00	H
ATOM	15955	CG	PHE	N	128	-10.589	-29.362-212.552	1.00	0.00	C
ATOM	15956	CD1	PHE	N	128	-10.695	-28.860-211.235	1.00	0.00	C
ATOM	15957	HD1	PHE	N	128	-11.481	-29.194-210.575	1.00	0.00	H
ATOM	15958	CD2	PHE	N	128	-9.553	-28.894-213.380	1.00	0.00	C
ATOM	15959	HD2	PHE	N	128	-9.447	-29.281-214.380	1.00	0.00	H
ATOM	15960	CE1	PHE	N	128	-9.756	-27.931-210.752	1.00	0.00	C
ATOM	15961	HE1	PHE	N	128	-9.816	-27.580-209.730	1.00	0.00	H
ATOM	15962	CE2	PHE	N	128	-8.633	-27.944-212.907	1.00	0.00	C

ATOM	15963	HE2	PHE	N	128	-7.841	-27.597	-213.553	1.00	0.00	H
ATOM	15964	CZ	PHE	N	128	-8.728	-27.467	-211.588	1.00	0.00	C
ATOM	15965	HZ	PHE	N	128	-8.009	-26.754	-211.211	1.00	0.00	H
ATOM	15966	N	GLN	N	129	-12.650	-33.535	-213.268	1.00	0.00	N
ATOM	15967	H	GLN	N	129	-11.649	-33.669	-213.360	1.00	0.00	H
ATOM	15968	CA	GLN	N	129	-13.537	-34.588	-213.796	1.00	0.00	C
ATOM	15969	HA	GLN	N	129	-14.192	-34.127	-214.525	1.00	0.00	H
ATOM	15970	C	GLN	N	129	-14.450	-35.214	-212.730	1.00	0.00	C
ATOM	15971	O	GLN	N	129	-15.537	-35.683	-213.069	1.00	0.00	O
ATOM	15972	CB	GLN	N	129	-12.713	-35.646	-214.545	1.00	0.00	C
ATOM	15973	1HB	GLN	N	129	-12.072	-35.115	-215.244	1.00	0.00	H
ATOM	15974	2HB	GLN	N	129	-12.094	-36.199	-213.837	1.00	0.00	H
ATOM	15975	CG	GLN	N	129	-13.553	-36.632	-215.375	1.00	0.00	C
ATOM	15976	1HG	GLN	N	129	-14.170	-37.235	-214.709	1.00	0.00	H
ATOM	15977	2HG	GLN	N	129	-14.203	-36.067	-216.042	1.00	0.00	H
ATOM	15978	CD	GLN	N	129	-12.695	-37.572	-216.222	1.00	0.00	C
ATOM	15979	OE1	GLN	N	129	-12.901	-38.773	-216.273	1.00	0.00	O
ATOM	15980	NE2	GLN	N	129	-11.716	-37.075	-216.950	1.00	0.00	N
ATOM	15981	1HE2	GLN	N	129	-11.146	-37.737	-217.442	1.00	0.00	H
ATOM	15982	2HE2	GLN	N	129	-11.476	-36.101	-216.881	1.00	0.00	H
ATOM	15983	N	SER	N	130	-14.057	-35.164	-211.453	1.00	0.00	N
ATOM	15984	H	SER	N	130	-13.144	-34.779	-211.243	1.00	0.00	H
ATOM	15985	CA	SER	N	130	-14.906	-35.557	-210.318	1.00	0.00	C
ATOM	15986	HA	SER	N	130	-15.295	-36.557	-210.513	1.00	0.00	H
ATOM	15987	C	SER	N	130	-16.128	-34.641	-210.110	1.00	0.00	C
ATOM	15988	O	SER	N	130	-17.078	-35.048	-209.445	1.00	0.00	O
ATOM	15989	CB	SER	N	130	-14.074	-35.635	-209.033	1.00	0.00	C
ATOM	15990	1HB	SER	N	130	-13.680	-34.653	-208.776	1.00	0.00	H
ATOM	15991	2HB	SER	N	130	-14.714	-35.972	-208.217	1.00	0.00	H
ATOM	15992	OG	SER	N	130	-13.013	-36.563	-209.195	1.00	0.00	O
ATOM	15993	HG	SER	N	130	-12.331	-36.186	-209.775	1.00	0.00	H
ATOM	15994	N	CYS	N	131	-16.145	-33.452	-210.731	1.00	0.00	N
ATOM	15995	H	CYS	N	131	-15.307	-33.177	-211.227	1.00	0.00	H
ATOM	15996	CA	CYS	N	131	-17.219	-32.452	-210.633	1.00	0.00	C
ATOM	15997	HA	CYS	N	131	-18.047	-32.864	-210.053	1.00	0.00	H
ATOM	15998	C	CYS	N	131	-17.809	-32.036	-211.999	1.00	0.00	C
ATOM	15999	O	CYS	N	131	-18.944	-31.567	-212.056	1.00	0.00	O
ATOM	16000	CB	CYS	N	131	-16.679	-31.230	-209.874	1.00	0.00	C
ATOM	16001	1HB	CYS	N	131	-15.776	-30.858	-210.362	1.00	0.00	H
ATOM	16002	2HB	CYS	N	131	-17.434	-30.442	-209.874	1.00	0.00	H
ATOM	16003	SG	CYS	N	131	-16.300	-31.686	-208.157	1.00	0.00	S
ATOM	16004	HG	CYS	N	131	-15.706	-30.534	-207.793	1.00	0.00	H
ATOM	16005	N	GLY	N	132	-17.097	-32.240	-213.114	1.00	0.00	N
ATOM	16006	H	GLY	N	132	-16.126	-32.519	-213.018	1.00	0.00	H
ATOM	16007	CA	GLY	N	132	-17.613	-32.029	-214.470	1.00	0.00	C
ATOM	16008	1HA	GLY	N	132	-18.578	-32.527	-214.557	1.00	0.00	H
ATOM	16009	2HA	GLY	N	132	-17.768	-30.963	-214.633	1.00	0.00	H
ATOM	16010	C	GLY	N	132	-16.673	-32.554	-215.561	1.00	0.00	C
ATOM	16011	O	GLY	N	132	-15.458	-32.434	-215.463	1.00	0.00	O
ATOM	16012	N	THR	N	133	-17.235	-33.160	-216.614	1.00	0.00	N
ATOM	16013	H	THR	N	133	-18.239	-33.206	-216.643	1.00	0.00	H
ATOM	16014	CA	THR	N	133	-16.466	-33.730	-217.744	1.00	0.00	C
ATOM	16015	HA	THR	N	133	-15.793	-34.478	-217.328	1.00	0.00	H
ATOM	16016	C	THR	N	133	-15.574	-32.693	-218.451	1.00	0.00	C
ATOM	16017	O	THR	N	133	-15.856	-31.499	-218.410	1.00	0.00	O
ATOM	16018	CB	THR	N	133	-17.402	-34.466	-218.721	1.00	0.00	C
ATOM	16019	HB	THR	N	133	-17.848	-35.305	-218.186	1.00	0.00	H
ATOM	16020	OG1	THR	N	133	-16.707	-34.986	-219.828	1.00	0.00	O
ATOM	16021	HG1	THR	N	133	-16.693	-34.295	-220.501	1.00	0.00	H
ATOM	16022	CG2	THR	N	133	-18.535	-33.615	-219.286	1.00	0.00	C
ATOM	16023	1HG2	THR	N	133	-19.091	-34.185	-220.032	1.00	0.00	H
ATOM	16024	2HG2	THR	N	133	-18.129	-32.717	-219.748	1.00	0.00	H
ATOM	16025	3HG2	THR	N	133	-19.220	-33.332	-218.489	1.00	0.00	H
ATOM	16026	N	VAL	N	134	-14.511	-33.155	-219.126	1.00	0.00	N
ATOM	16027	H	VAL	N	134	-14.407	-34.156	-219.208	1.00	0.00	H
ATOM	16028	CA	VAL	N	134	-13.379	-32.340	-219.610	1.00	0.00	C
ATOM	16029	HA	VAL	N	134	-13.726	-31.318	-219.765	1.00	0.00	H
ATOM	16030	C	VAL	N	134	-12.827	-32.857	-220.955	1.00	0.00	C
ATOM	16031	O	VAL	N	134	-12.866	-34.057	-221.218	1.00	0.00	O
ATOM	16032	CB	VAL	N	134	-12.293	-32.289	-218.508	1.00	0.00	C
ATOM	16033	HB	VAL	N	134	-12.721	-31.764	-217.654	1.00	0.00	H
ATOM	16034	CG1	VAL	N	134	-11.830	-33.669	-218.012	1.00	0.00	C
ATOM	16035	1HG1	VAL	N	134	-12.669	-34.209	-217.576	1.00	0.00	H
ATOM	16036	2HG1	VAL	N	134	-11.074	-33.539	-217.237	1.00	0.00	H
ATOM	16037	3HG1	VAL	N	134	-11.408	-34.247	-218.835	1.00	0.00	H
ATOM	16038	CG2	VAL	N	134	-11.058	-31.504	-218.948	1.00	0.00	C
ATOM	16039	1HG2	VAL	N	134	-11.366	-30.550	-219.373	1.00	0.00	H

ATOM	16040	2HG2	VAL	N	134	-10.481	-32.065	-219.683	1.00	0.00	H
ATOM	16041	3HG2	VAL	N	134	-10.421	-31.313	-218.084	1.00	0.00	H
ATOM	16042	N	ASN	N	135	-12.338	-31.956	-221.822	1.00	0.00	N
ATOM	16043	H	ASN	N	135	-12.442	-30.978	-221.560	1.00	0.00	H
ATOM	16044	CA	ASN	N	135	-11.913	-32.243	-223.210	1.00	0.00	C
ATOM	16045	HA	ASN	N	135	-11.803	-33.323	-223.323	1.00	0.00	H
ATOM	16046	C	ASN	N	135	-10.537	-31.637	-223.608	1.00	0.00	C
ATOM	16047	O	ASN	N	135	-10.033	-31.897	-224.706	1.00	0.00	O
ATOM	16048	CB	ASN	N	135	-13.053	-31.792	-224.144	1.00	0.00	C
ATOM	16049	1HB	ASN	N	135	-13.980	-32.272	-223.836	1.00	0.00	H
ATOM	16050	2HB	ASN	N	135	-13.191	-30.716	-224.054	1.00	0.00	H
ATOM	16051	CG	ASN	N	135	-12.832	-32.158	-225.604	1.00	0.00	C
ATOM	16052	OD1	ASN	N	135	-12.784	-33.317	-225.987	1.00	0.00	O
ATOM	16053	ND2	ASN	N	135	-12.709	-31.194	-226.483	1.00	0.00	N
ATOM	16054	1HD2	ASN	N	135	-12.596	-31.440	-227.440	1.00	0.00	H
ATOM	16055	2HD2	ASN	N	135	-12.697	-30.214	-226.168	1.00	0.00	H
ATOM	16056	N	ARG	N	136	-9.884	-30.887	-222.710	1.00	0.00	N
ATOM	16057	H	ARG	N	136	-10.353	-30.702	-221.833	1.00	0.00	H
ATOM	16058	CA	ARG	N	136	-8.459	-30.494	-222.774	1.00	0.00	C
ATOM	16059	HA	ARG	N	136	-7.883	-31.264	-223.287	1.00	0.00	H
ATOM	16060	C	ARG	N	136	-7.879	-30.360	-221.370	1.00	0.00	C
ATOM	16061	O	ARG	N	136	-8.624	-30.116	-220.426	1.00	0.00	O
ATOM	16062	CB	ARG	N	136	-8.260	-29.128	-223.472	1.00	0.00	C
ATOM	16063	1HB	ARG	N	136	-9.102	-28.471	-223.267	1.00	0.00	H
ATOM	16064	2HB	ARG	N	136	-7.390	-28.633	-223.037	1.00	0.00	H
ATOM	16065	CG	ARG	N	136	-7.974	-29.200	-224.975	1.00	0.00	C
ATOM	16066	1HG	ARG	N	136	-7.207	-28.459	-225.212	1.00	0.00	H
ATOM	16067	2HG	ARG	N	136	-7.574	-30.183	-225.227	1.00	0.00	H
ATOM	16068	CD	ARG	N	136	-9.195	-28.892	-225.842	1.00	0.00	C
ATOM	16069	1HD	ARG	N	136	-10.027	-29.537	-225.563	1.00	0.00	H
ATOM	16070	2HD	ARG	N	136	-9.498	-27.859	-225.670	1.00	0.00	H
ATOM	16071	NE	ARG	N	136	-8.854	-29.056	-227.263	1.00	0.00	N
ATOM	16072	HE	ARG	N	136	-8.498	-28.233	-227.723	1.00	0.00	H
ATOM	16073	CZ	ARG	N	136	-8.859	-30.193	-227.930	1.00	0.00	C
ATOM	16074	NH1	ARG	N	136	-9.305	-31.308	-227.414	1.00	0.00	N
ATOM	16075	1HH1	ARG	N	136	-9.655	-31.298	-226.455	1.00	0.00	H
ATOM	16076	2HH1	ARG	N	136	-9.281	-32.171	-227.911	1.00	0.00	H
ATOM	16077	NH2	ARG	N	136	-8.382	-30.231	-229.143	1.00	0.00	N
ATOM	16078	1HH2	ARG	N	136	-7.962	-29.399	-229.526	1.00	0.00	H
ATOM	16079	2HH2	ARG	N	136	-8.307	-31.098	-229.633	1.00	0.00	H
ATOM	16080	N	VAL	N	137	-6.551	-30.422	-221.289	1.00	0.00	N
ATOM	16081	H	VAL	N	137	-6.030	-30.636	-222.126	1.00	0.00	H
ATOM	16082	CA	VAL	N	137	-5.755	-29.849	-220.201	1.00	0.00	C
ATOM	16083	HA	VAL	N	137	-6.315	-29.015	-219.793	1.00	0.00	H
ATOM	16084	C	VAL	N	137	-4.443	-29.301	-220.777	1.00	0.00	C
ATOM	16085	O	VAL	N	137	-3.833	-29.953	-221.625	1.00	0.00	O
ATOM	16086	CB	VAL	N	137	-5.535	-30.865	-219.055	1.00	0.00	C
ATOM	16087	HB	VAL	N	137	-6.519	-31.186	-218.709	1.00	0.00	H
ATOM	16088	CG1	VAL	N	137	-4.773	-32.131	-219.470	1.00	0.00	C
ATOM	16089	1HG1	VAL	N	137	-3.761	-31.878	-219.786	1.00	0.00	H
ATOM	16090	2HG1	VAL	N	137	-5.293	-32.631	-220.285	1.00	0.00	H
ATOM	16091	3HG1	VAL	N	137	-4.716	-32.813	-218.622	1.00	0.00	H
ATOM	16092	CG2	VAL	N	137	-4.819	-30.241	-217.851	1.00	0.00	C
ATOM	16093	1HG2	VAL	N	137	-4.807	-30.948	-217.022	1.00	0.00	H
ATOM	16094	2HG2	VAL	N	137	-5.346	-29.341	-217.530	1.00	0.00	H
ATOM	16095	3HG2	VAL	N	137	-3.792	-29.979	-218.105	1.00	0.00	H
ATOM	16096	N	THR	N	138	-4.008	-28.138	-220.295	1.00	0.00	N
ATOM	16097	H	THR	N	138	-4.597	-27.663	-219.618	1.00	0.00	H
ATOM	16098	CA	THR	N	138	-2.640	-27.601	-220.467	1.00	0.00	C
ATOM	16099	HA	THR	N	138	-2.011	-28.338	-220.963	1.00	0.00	H
ATOM	16100	C	THR	N	138	-2.092	-27.324	-219.071	1.00	0.00	C
ATOM	16101	O	THR	N	138	-2.872	-27.006	-218.175	1.00	0.00	O
ATOM	16102	CB	THR	N	138	-2.592	-26.284	-221.274	1.00	0.00	C
ATOM	16103	HB	THR	N	138	-2.992	-25.479	-220.657	1.00	0.00	H
ATOM	16104	OG1	THR	N	138	-3.350	-26.359	-222.454	1.00	0.00	O
ATOM	16105	HG1	THR	N	138	-3.546	-25.423	-222.686	1.00	0.00	H
ATOM	16106	CG2	THR	N	138	-1.181	-25.892	-221.715	1.00	0.00	C
ATOM	16107	1HG2	THR	N	138	-0.569	-25.631	-220.853	1.00	0.00	H
ATOM	16108	2HG2	THR	N	138	-1.233	-25.014	-222.360	1.00	0.00	H
ATOM	16109	3HG2	THR	N	138	-0.718	-26.710	-222.267	1.00	0.00	H
ATOM	16110	N	ILE	N	139	-0.779	-27.437	-218.872	1.00	0.00	N
ATOM	16111	H	ILE	N	139	-0.180	-27.661	-219.654	1.00	0.00	H
ATOM	16112	CA	ILE	N	139	-0.100	-27.147	-217.602	1.00	0.00	C
ATOM	16113	HA	ILE	N	139	-0.632	-26.339	-217.105	1.00	0.00	H
ATOM	16114	C	ILE	N	139	1.333	-26.675	-217.876	1.00	0.00	C
ATOM	16115	O	ILE	N	139	1.977	-27.187	-218.798	1.00	0.00	O
ATOM	16116	CB	ILE	N	139	-0.135	-28.393	-216.679	1.00	0.00	C

ATOM	16117	HB	ILE	N	139	-1.182	-28.684-216.573	1.00	0.00	H
ATOM	16118	CG1	ILE	N	139	0.391	-28.069-215.263	1.00	0.00	C
ATOM	16119	1HG1	ILE	N	139	1.456	-27.839-215.302	1.00	0.00	H
ATOM	16120	2HG1	ILE	N	139	-0.131	-27.186-214.901	1.00	0.00	H
ATOM	16121	CG2	ILE	N	139	0.623	-29.590-217.282	1.00	0.00	C
ATOM	16122	1HG2	ILE	N	139	0.437	-30.470-216.676	1.00	0.00	H
ATOM	16123	2HG2	ILE	N	139	1.695	-29.394-217.299	1.00	0.00	H
ATOM	16124	3HG2	ILE	N	139	0.277	-29.793-218.294	1.00	0.00	H
ATOM	16125	CD1	ILE	N	139	0.179	-29.193-214.238	1.00	0.00	C
ATOM	16126	1HD1	ILE	N	139	-0.861	-29.519-214.251	1.00	0.00	H
ATOM	16127	2HD1	ILE	N	139	0.422	-28.823-213.242	1.00	0.00	H
ATOM	16128	3HD1	ILE	N	139	0.828	-30.040-214.459	1.00	0.00	H
ATOM	16129	N	LEU	N	140	1.853	-25.756-217.058	1.00	0.00	N
ATOM	16130	H	LEU	N	140	1.232	-25.306-216.388	1.00	0.00	H
ATOM	16131	CA	LEU	N	140	3.224	-25.256-217.166	1.00	0.00	C
ATOM	16132	HA	LEU	N	140	3.754	-25.902-217.865	1.00	0.00	H
ATOM	16133	C	LEU	N	140	3.977	-25.345-215.832	1.00	0.00	C
ATOM	16134	O	LEU	N	140	3.918	-24.476-214.961	1.00	0.00	O
ATOM	16135	CB	LEU	N	140	3.235	-23.850-217.795	1.00	0.00	C
ATOM	16136	1HB	LEU	N	140	2.732	-23.900-218.763	1.00	0.00	H
ATOM	16137	2HB	LEU	N	140	2.659	-23.178-217.160	1.00	0.00	H
ATOM	16138	CG	LEU	N	140	4.639	-23.241-218.000	1.00	0.00	C
ATOM	16139	HG	LEU	N	140	5.058	-22.999-217.026	1.00	0.00	H
ATOM	16140	CD1	LEU	N	140	5.618	-24.182-218.718	1.00	0.00	C
ATOM	16141	1HD1	LEU	N	140	5.840	-25.045-218.095	1.00	0.00	H
ATOM	16142	2HD1	LEU	N	140	6.546	-23.651-218.923	1.00	0.00	H
ATOM	16143	3HD1	LEU	N	140	5.174	-24.508-219.659	1.00	0.00	H
ATOM	16144	CD2	LEU	N	140	4.582	-21.957-218.823	1.00	0.00	C
ATOM	16145	1HD2	LEU	N	140	4.185	-22.160-219.818	1.00	0.00	H
ATOM	16146	2HD2	LEU	N	140	5.564	-21.496-218.897	1.00	0.00	H
ATOM	16147	3HD2	LEU	N	140	3.907	-21.246-218.347	1.00	0.00	H
ATOM	16148	N	THR	N	141	4.778	-26.404-215.708	1.00	0.00	N
ATOM	16149	H	THR	N	141	4.671	-27.158-216.371	1.00	0.00	H
ATOM	16150	CA	THR	N	141	5.925	-26.470-214.790	1.00	0.00	C
ATOM	16151	HA	THR	N	141	5.575	-26.189-213.797	1.00	0.00	H
ATOM	16152	C	THR	N	141	7.003	-25.460-215.226	1.00	0.00	C
ATOM	16153	O	THR	N	141	8.006	-25.827-215.845	1.00	0.00	O
ATOM	16154	CB	THR	N	141	6.496	-27.899-214.700	1.00	0.00	C
ATOM	16155	HB	THR	N	141	7.117	-28.099-215.574	1.00	0.00	H
ATOM	16156	OG1	THR	N	141	5.475	-28.869-214.692	1.00	0.00	O
ATOM	16157	HG1	THR	N	141	5.081	-28.902-213.811	1.00	0.00	H
ATOM	16158	CG2	THR	N	141	7.328	-28.096-213.436	1.00	0.00	C
ATOM	16159	1HG2	THR	N	141	8.189	-27.428-213.448	1.00	0.00	H
ATOM	16160	2HG2	THR	N	141	7.679	-29.127-213.384	1.00	0.00	H
ATOM	16161	3HG2	THR	N	141	6.724	-27.884-212.552	1.00	0.00	H
ATOM	16162	N	ASP	N	142	6.739	-24.171-214.999	1.00	0.00	N
ATOM	16163	H	ASP	N	142	5.821	-23.975-214.610	1.00	0.00	H
ATOM	16164	CA	ASP	N	142	7.509	-22.980-215.400	1.00	0.00	C
ATOM	16165	HA	ASP	N	142	7.412	-22.883-216.481	1.00	0.00	H
ATOM	16166	C	ASP	N	142	9.041	-23.026-215.131	1.00	0.00	C
ATOM	16167	O	ASP	N	142	9.570	-23.907-214.447	1.00	0.00	O
ATOM	16168	CB	ASP	N	142	6.786	-21.747-214.812	1.00	0.00	C
ATOM	16169	1HB	ASP	N	142	6.012	-21.441-215.516	1.00	0.00	H
ATOM	16170	2HB	ASP	N	142	6.290	-22.010-213.880	1.00	0.00	H
ATOM	16171	CG	ASP	N	142	7.724	-20.573-214.567	1.00	0.00	C
ATOM	16172	OD1	ASP	N	142	8.165	-20.000-215.583	1.00	0.00	O
ATOM	16173	OD2	ASP	N	142	8.272	-20.482-213.447	1.00	0.00	O
ATOM	16174	N	LYS	N	143	9.794	-22.127-215.783	1.00	0.00	N
ATOM	16175	H	LYS	N	143	9.276	-21.334-216.177	1.00	0.00	H
ATOM	16176	CA	LYS	N	143	11.261	-21.998-215.741	1.00	0.00	C
ATOM	16177	HA	LYS	N	143	11.646	-22.720-215.023	1.00	0.00	H
ATOM	16178	C	LYS	N	143	11.755	-20.631-215.206	1.00	0.00	C
ATOM	16179	O	LYS	N	143	12.959	-20.390-215.274	1.00	0.00	O
ATOM	16180	CB	LYS	N	143	11.839	-22.289-217.147	1.00	0.00	C
ATOM	16181	1HB	LYS	N	143	11.094	-22.752-217.795	1.00	0.00	H
ATOM	16182	2HB	LYS	N	143	12.097	-21.338-217.619	1.00	0.00	H
ATOM	16183	CG	LYS	N	143	13.101	-23.172-217.107	1.00	0.00	C
ATOM	16184	1HG	LYS	N	143	13.750	-22.862-217.927	1.00	0.00	H
ATOM	16185	2HG	LYS	N	143	13.646	-22.984-216.181	1.00	0.00	H
ATOM	16186	CD	LYS	N	143	12.869	-24.689-217.260	1.00	0.00	C
ATOM	16187	1HD	LYS	N	143	12.555	-24.902-218.283	1.00	0.00	H
ATOM	16188	2HD	LYS	N	143	13.834	-25.176-217.109	1.00	0.00	H
ATOM	16189	CE	LYS	N	143	11.869	-25.313-216.274	1.00	0.00	C
ATOM	16190	1HE	LYS	N	143	12.103	-26.373-216.150	1.00	0.00	H
ATOM	16191	2HE	LYS	N	143	11.981	-24.830-215.297	1.00	0.00	H
ATOM	16192	NZ	LYS	N	143	10.471	-25.174-216.741	1.00	0.00	N
ATOM	16193	1HZ	LYS	N	143	9.809	-25.456-216.011	1.00	0.00	H

ATOM	16194	2HZ	LYS	N	143	10.257	-25.704-217.569	1.00	0.00	H
ATOM	16195	3HZ	LYS	N	143	10.249	-24.197-216.880	1.00	0.00	H
ATOM	16196	N	PHE	N	144	10.872	-19.779-214.685	1.00	0.00	H
ATOM	16197	H	PHE	N	144	9.886	-20.038-214.687	1.00	0.00	H
ATOM	16198	CA	PHE	N	144	11.149	-18.436-214.163	1.00	0.00	C
ATOM	16199	HA	PHE	N	144	12.224	-18.265-214.186	1.00	0.00	H
ATOM	16200	C	PHE	N	144	10.740	-18.344-212.675	1.00	0.00	C
ATOM	16201	O	PHE	N	144	11.175	-19.193-211.889	1.00	0.00	O
ATOM	16202	CB	PHE	N	144	10.496	-17.401-215.103	1.00	0.00	C
ATOM	16203	1HB	PHE	N	144	10.844	-17.586-216.120	1.00	0.00	H
ATOM	16204	2HB	PHE	N	144	9.416	-17.557-215.097	1.00	0.00	H
ATOM	16205	CG	PHE	N	144	10.794	-15.947-214.772	1.00	0.00	C
ATOM	16206	CD1	PHE	N	144	12.125	-15.495-214.664	1.00	0.00	C
ATOM	16207	HD1	PHE	N	144	12.946	-16.169-214.856	1.00	0.00	H
ATOM	16208	CD2	PHE	N	144	9.735	-15.050-214.531	1.00	0.00	C
ATOM	16209	HD2	PHE	N	144	8.707	-15.375-214.622	1.00	0.00	H
ATOM	16210	CE1	PHE	N	144	12.392	-14.165-214.292	1.00	0.00	C
ATOM	16211	HE1	PHE	N	144	13.410	-13.817-214.197	1.00	0.00	H
ATOM	16212	CE2	PHE	N	144	10.002	-13.723-214.154	1.00	0.00	C
ATOM	16213	HE2	PHE	N	144	9.184	-13.043-213.947	1.00	0.00	H
ATOM	16214	CZ	PHE	N	144	11.330	-13.282-214.028	1.00	0.00	C
ATOM	16215	HZ	PHE	N	144	11.527	-12.261-213.727	1.00	0.00	H
ATOM	16216	N	GLY	N	145	9.968	-17.340-212.241	1.00	0.00	H
ATOM	16217	H	GLY	N	145	9.578	-16.703-212.926	1.00	0.00	H
ATOM	16218	CA	GLY	N	145	9.769	-17.010-210.822	1.00	0.00	C
ATOM	16219	1HA	GLY	N	145	10.670	-17.241-210.253	1.00	0.00	H
ATOM	16220	2HA	GLY	N	145	9.592	-15.936-210.743	1.00	0.00	H
ATOM	16221	C	GLY	N	145	8.581	-17.718-210.165	1.00	0.00	C
ATOM	16222	O	GLY	N	145	8.751	-18.357-209.129	1.00	0.00	O
ATOM	16223	N	GLN	N	146	7.423	-17.708-210.824	1.00	0.00	N
ATOM	16224	H	GLN	N	146	7.422	-17.246-211.729	1.00	0.00	H
ATOM	16225	CA	GLN	N	146	6.092	-18.005-210.272	1.00	0.00	C
ATOM	16226	HA	GLN	N	146	5.848	-17.201-209.578	1.00	0.00	H
ATOM	16227	C	GLN	N	146	5.911	-19.347-209.518	1.00	0.00	C
ATOM	16228	O	GLN	N	146	6.674	-20.292-209.741	1.00	0.00	O
ATOM	16229	CB	GLN	N	146	5.092	-17.959-211.440	1.00	0.00	C
ATOM	16230	1HB	GLN	N	146	5.399	-18.656-212.220	1.00	0.00	H
ATOM	16231	2HB	GLN	N	146	4.119	-18.279-211.070	1.00	0.00	H
ATOM	16232	CG	GLN	N	146	4.883	-16.565-212.036	1.00	0.00	C
ATOM	16233	1HG	GLN	N	146	3.831	-16.500-212.300	1.00	0.00	H
ATOM	16234	2HG	GLN	N	146	5.101	-15.812-211.284	1.00	0.00	H
ATOM	16235	CD	GLN	N	146	5.701	-16.250-213.282	1.00	0.00	C
ATOM	16236	OE1	GLN	N	146	6.869	-16.609-213.398	1.00	0.00	O
ATOM	16237	NE2	GLN	N	146	5.113	-15.583-214.250	1.00	0.00	N
ATOM	16238	1HE2	GLN	N	146	5.640	-15.336-215.063	1.00	0.00	H
ATOM	16239	2HE2	GLN	N	146	4.162	-15.233-214.125	1.00	0.00	H
ATOM	16240	N	PRO	N	147	4.840	-19.508-208.710	1.00	0.00	N
ATOM	16241	CA	PRO	N	147	4.347	-20.797-208.197	1.00	0.00	C
ATOM	16242	HA	PRO	N	147	5.145	-21.295-207.648	1.00	0.00	H
ATOM	16243	C	PRO	N	147	3.890	-21.741-209.332	1.00	0.00	C
ATOM	16244	O	PRO	N	147	2.723	-21.771-209.729	1.00	0.00	O
ATOM	16245	CB	PRO	N	147	3.239	-20.442-207.195	1.00	0.00	C
ATOM	16246	1HB	PRO	N	147	2.450	-21.190-207.151	1.00	0.00	H
ATOM	16247	2HB	PRO	N	147	3.675	-20.309-206.204	1.00	0.00	H
ATOM	16248	CG	PRO	N	147	2.727	-19.095-207.699	1.00	0.00	C
ATOM	16249	1HG	PRO	N	147	2.053	-19.241-208.543	1.00	0.00	H
ATOM	16250	2HG	PRO	N	147	2.251	-18.512-206.910	1.00	0.00	H
ATOM	16251	CD	PRO	N	147	3.997	-18.431-208.203	1.00	0.00	C
ATOM	16252	1HD	PRO	N	147	3.746	-17.690-208.962	1.00	0.00	H
ATOM	16253	2HD	PRO	N	147	4.503	-17.952-207.365	1.00	0.00	H
ATOM	16254	N	LYS	N	148	4.872	-22.444-209.917	1.00	0.00	N
ATOM	16255	H	LYS	N	148	5.795	-22.242-209.564	1.00	0.00	H
ATOM	16256	CA	LYS	N	148	4.775	-23.295-211.118	1.00	0.00	C
ATOM	16257	HA	LYS	N	148	4.525	-22.658-211.967	1.00	0.00	H
ATOM	16258	C	LYS	N	148	3.688	-24.367-211.008	1.00	0.00	C
ATOM	16259	O	LYS	N	148	3.556	-25.003-209.974	1.00	0.00	O
ATOM	16260	CB	LYS	N	148	6.122	-23.991-211.390	1.00	0.00	C
ATOM	16261	1HB	LYS	N	148	6.319	-24.717-210.603	1.00	0.00	H
ATOM	16262	2HB	LYS	N	148	6.018	-24.550-212.318	1.00	0.00	H
ATOM	16263	CG	LYS	N	148	7.330	-23.053-211.543	1.00	0.00	C
ATOM	16264	1HG	LYS	N	148	7.927	-23.402-212.384	1.00	0.00	H
ATOM	16265	2HG	LYS	N	148	6.971	-22.051-211.767	1.00	0.00	H
ATOM	16266	CD	LYS	N	148	8.245	-23.007-210.309	1.00	0.00	C
ATOM	16267	1HD	LYS	N	148	7.691	-22.641-209.445	1.00	0.00	H
ATOM	16268	2HD	LYS	N	148	8.588	-24.018-210.085	1.00	0.00	H
ATOM	16269	CE	LYS	N	148	9.475	-22.118-210.547	1.00	0.00	C
ATOM	16270	1HE	LYS	N	148	10.090	-22.128-209.643	1.00	0.00	H

ATOM	16271	2HE	LYS	N	148	10.060	-22.534	-211.371	1.00	0.00	H
ATOM	16272	NZ	LYS	N	148	9.113	-20.721	-210.869	1.00	0.00	N
ATOM	16273	1HZ	LYS	N	148	8.477	-20.316	-210.181	1.00	0.00	H
ATOM	16274	2HZ	LYS	N	148	8.636	-20.654	-211.772	1.00	0.00	H
ATOM	16275	3HZ	LYS	N	148	9.926	-20.118	-210.950	1.00	0.00	H
ATOM	16276	N	GLY	N	149	3.013	-24.660	-212.120	1.00	0.00	N
ATOM	16277	H	GLY	N	149	3.236	-24.156	-212.970	1.00	0.00	H
ATOM	16278	CA	GLY	N	149	1.957	-25.682	-212.191	1.00	0.00	C
ATOM	16279	1HA	GLY	N	149	2.249	-26.439	-212.917	1.00	0.00	H
ATOM	16280	2HA	GLY	N	149	1.828	-26.172	-211.225	1.00	0.00	H
ATOM	16281	C	GLY	N	149	0.595	-25.129	-212.620	1.00	0.00	C
ATOM	16282	O	GLY	N	149	-0.375	-25.881	-212.668	1.00	0.00	O
ATOM	16283	N	PHE	N	150	0.522	-23.832	-212.935	1.00	0.00	N
ATOM	16284	H	PHE	N	150	1.353	-23.270	-212.841	1.00	0.00	H
ATOM	16285	CA	PHE	N	150	-0.633	-23.187	-213.564	1.00	0.00	C
ATOM	16286	HA	PHE	N	150	-1.460	-23.231	-212.857	1.00	0.00	H
ATOM	16287	C	PHE	N	150	-1.089	-23.929	-214.826	1.00	0.00	C
ATOM	16288	O	PHE	N	150	-0.289	-24.562	-215.522	1.00	0.00	O
ATOM	16289	CB	PHE	N	150	-0.345	-21.703	-213.855	1.00	0.00	C
ATOM	16290	1HB	PHE	N	150	-0.843	-21.404	-214.779	1.00	0.00	H
ATOM	16291	2HB	PHE	N	150	-0.798	-21.108	-213.065	1.00	0.00	H
ATOM	16292	CG	PHE	N	150	1.116	-21.310	-213.927	1.00	0.00	C
ATOM	16293	CD1	PHE	N	150	1.793	-20.960	-212.746	1.00	0.00	C
ATOM	16294	HD1	PHE	N	150	1.280	-20.990	-211.794	1.00	0.00	H
ATOM	16295	CD2	PHE	N	150	1.787	-21.263	-215.161	1.00	0.00	C
ATOM	16296	HD2	PHE	N	150	1.266	-21.523	-216.073	1.00	0.00	H
ATOM	16297	CE1	PHE	N	150	3.127	-20.537	-212.801	1.00	0.00	C
ATOM	16298	HE1	PHE	N	150	3.630	-20.263	-211.889	1.00	0.00	H
ATOM	16299	CE2	PHE	N	150	3.113	-20.800	-215.218	1.00	0.00	C
ATOM	16300	HE2	PHE	N	150	3.599	-20.694	-216.176	1.00	0.00	H
ATOM	16301	CZ	PHE	N	150	3.779	-20.423	-214.039	1.00	0.00	C
ATOM	16302	HZ	PHE	N	150	4.777	-20.015	-214.088	1.00	0.00	H
ATOM	16303	N	ALA	N	151	-2.396	-23.886	-215.083	1.00	0.00	N
ATOM	16304	H	ALA	N	151	-2.965	-23.241	-214.541	1.00	0.00	H
ATOM	16305	CA	ALA	N	151	-3.074	-24.813	-215.980	1.00	0.00	C
ATOM	16306	HA	ALA	N	151	-2.412	-25.031	-216.816	1.00	0.00	H
ATOM	16307	C	ALA	N	151	-4.379	-24.246	-216.565	1.00	0.00	C
ATOM	16308	O	ALA	N	151	-4.845	-23.172	-216.192	1.00	0.00	O
ATOM	16309	CB	ALA	N	151	-3.336	-26.110	-215.187	1.00	0.00	C
ATOM	16310	1HB	ALA	N	151	-3.823	-26.855	-215.815	1.00	0.00	H
ATOM	16311	2HB	ALA	N	151	-3.974	-25.907	-214.329	1.00	0.00	H
ATOM	16312	3HB	ALA	N	151	-2.393	-26.523	-214.829	1.00	0.00	H
ATOM	16313	N	TYR	N	152	-5.008	-25.004	-217.465	1.00	0.00	N
ATOM	16314	H	TYR	N	152	-4.563	-25.875	-217.735	1.00	0.00	H
ATOM	16315	CA	TYR	N	152	-6.352	-24.728	-217.987	1.00	0.00	C
ATOM	16316	HA	TYR	N	152	-6.930	-24.240	-217.203	1.00	0.00	H
ATOM	16317	C	TYR	N	152	-7.075	-26.036	-218.346	1.00	0.00	C
ATOM	16318	O	TYR	N	152	-6.415	-27.037	-218.631	1.00	0.00	O
ATOM	16319	CB	TYR	N	152	-6.256	-23.766	-219.196	1.00	0.00	C
ATOM	16320	1HB	TYR	N	152	-6.745	-22.832	-218.926	1.00	0.00	H
ATOM	16321	2HB	TYR	N	152	-5.211	-23.513	-219.385	1.00	0.00	H
ATOM	16322	CG	TYR	N	152	-6.853	-24.285	-220.495	1.00	0.00	C
ATOM	16323	CD1	TYR	N	152	-8.169	-23.970	-220.875	1.00	0.00	C
ATOM	16324	HD1	TYR	N	152	-8.769	-23.342	-220.233	1.00	0.00	H
ATOM	16325	CD2	TYR	N	152	-6.099	-25.154	-221.294	1.00	0.00	C
ATOM	16326	HD2	TYR	N	152	-5.101	-25.403	-220.984	1.00	0.00	H
ATOM	16327	CE1	TYR	N	152	-8.708	-24.510	-222.061	1.00	0.00	C
ATOM	16328	HE1	TYR	N	152	-9.712	-24.274	-222.354	1.00	0.00	H
ATOM	16329	CE2	TYR	N	152	-6.630	-25.706	-222.472	1.00	0.00	C
ATOM	16330	HE2	TYR	N	152	-6.028	-26.360	-223.086	1.00	0.00	H
ATOM	16331	CZ	TYR	N	152	-7.945	-25.391	-222.854	1.00	0.00	C
ATOM	16332	OH	TYR	N	152	-8.486	-25.953	-223.966	1.00	0.00	O
ATOM	16333	HH	TYR	N	152	-9.366	-25.613	-224.151	1.00	0.00	H
ATOM	16334	N	VAL	N	153	-8.415	-26.011	-218.399	1.00	0.00	N
ATOM	16335	H	VAL	N	153	-8.868	-25.128	-218.183	1.00	0.00	H
ATOM	16336	CA	VAL	N	153	-9.267	-27.092	-218.947	1.00	0.00	C
ATOM	16337	HA	VAL	N	153	-8.692	-27.628	-219.701	1.00	0.00	H
ATOM	16338	C	VAL	N	153	-10.520	-26.537	-219.655	1.00	0.00	C
ATOM	16339	O	VAL	N	153	-10.882	-25.376	-219.464	1.00	0.00	O
ATOM	16340	CB	VAL	N	153	-9.689	-28.116	-217.866	1.00	0.00	C
ATOM	16341	HB	VAL	N	153	-10.317	-28.856	-218.355	1.00	0.00	H
ATOM	16342	CG1	VAL	N	153	-8.515	-28.876	-217.241	1.00	0.00	C
ATOM	16343	1HG1	VAL	N	153	-7.912	-28.210	-216.624	1.00	0.00	H
ATOM	16344	2HG1	VAL	N	153	-7.891	-29.292	-218.028	1.00	0.00	H
ATOM	16345	3HG1	VAL	N	153	-8.887	-29.695	-216.626	1.00	0.00	H
ATOM	16346	CG2	VAL	N	153	-10.515	-27.513	-216.729	1.00	0.00	C
ATOM	16347	1HG2	VAL	N	153	-9.904	-26.817	-216.155	1.00	0.00	H

ATOM	16348	2HG2	VAL	N	153	-10.866	-28.304	-216.066	1.00	0.00	H
ATOM	16349	3HG2	VAL	N	153	-11.386	-26.996	-217.128	1.00	0.00	H
ATOM	16350	N	GLU	N	154	-11.223	-27.363	-220.444	1.00	0.00	N
ATOM	16351	H	GLU	N	154	-10.904	-28.315	-220.537	1.00	0.00	H
ATOM	16352	CA	GLU	N	154	-12.481	-26.997	-221.136	1.00	0.00	C
ATOM	16353	HA	GLU	N	154	-12.948	-26.181	-220.588	1.00	0.00	H
ATOM	16354	C	GLU	N	154	-13.512	-28.133	-221.197	1.00	0.00	C
ATOM	16355	O	GLU	N	154	-13.138	-29.311	-221.174	1.00	0.00	O
ATOM	16356	CB	GLU	N	154	-12.191	-26.497	-222.570	1.00	0.00	C
ATOM	16357	1HB	GLU	N	154	-13.060	-25.968	-222.961	1.00	0.00	H
ATOM	16358	2HB	GLU	N	154	-11.384	-25.773	-222.501	1.00	0.00	H
ATOM	16359	CG	GLU	N	154	-11.737	-27.562	-223.585	1.00	0.00	C
ATOM	16360	1HG	GLU	N	154	-10.927	-27.115	-224.162	1.00	0.00	H
ATOM	16361	2HG	GLU	N	154	-11.321	-28.417	-223.051	1.00	0.00	H
ATOM	16362	CD	GLU	N	154	-12.788	-28.069	-224.590	1.00	0.00	C
ATOM	16363	OE1	GLU	N	154	-12.354	-28.629	-225.623	1.00	0.00	O
ATOM	16364	OE2	GLU	N	154	-14.010	-28.020	-224.332	1.00	0.00	O
ATOM	16365	N	PHE	N	155	-14.791	-27.770	-221.370	1.00	0.00	N
ATOM	16366	H	PHE	N	155	-14.996	-26.775	-221.382	1.00	0.00	H
ATOM	16367	CA	PHE	N	155	-15.783	-28.659	-221.984	1.00	0.00	C
ATOM	16368	HA	PHE	N	155	-15.246	-29.299	-222.685	1.00	0.00	H
ATOM	16369	C	PHE	N	155	-16.858	-27.902	-222.777	1.00	0.00	C
ATOM	16370	O	PHE	N	155	-17.678	-27.160	-222.225	1.00	0.00	O
ATOM	16371	CB	PHE	N	155	-16.433	-29.586	-220.957	1.00	0.00	C
ATOM	16372	1HB	PHE	N	155	-15.664	-29.902	-220.257	1.00	0.00	H
ATOM	16373	2HB	PHE	N	155	-17.189	-29.043	-220.391	1.00	0.00	H
ATOM	16374	CG	PHE	N	155	-17.029	-30.826	-221.607	1.00	0.00	C
ATOM	16375	CD1	PHE	N	155	-16.179	-31.898	-221.928	1.00	0.00	C
ATOM	16376	HD1	PHE	N	155	-15.130	-31.814	-221.705	1.00	0.00	H
ATOM	16377	CD2	PHE	N	155	-18.395	-30.905	-221.943	1.00	0.00	C
ATOM	16378	HD2	PHE	N	155	-19.055	-30.079	-221.720	1.00	0.00	H
ATOM	16379	CE1	PHE	N	155	-16.677	-33.055	-222.550	1.00	0.00	C
ATOM	16380	HE1	PHE	N	155	-16.006	-33.867	-222.797	1.00	0.00	H
ATOM	16381	CE2	PHE	N	155	-18.900	-32.066	-222.565	1.00	0.00	C
ATOM	16382	HE2	PHE	N	155	-19.949	-32.147	-222.815	1.00	0.00	H
ATOM	16383	CZ	PHE	N	155	-18.043	-33.139	-222.866	1.00	0.00	C
ATOM	16384	HZ	PHE	N	155	-18.437	-34.022	-223.349	1.00	0.00	H
ATOM	16385	N	VAL	N	156	-16.889	-28.149	-224.088	1.00	0.00	N
ATOM	16386	H	VAL	N	156	-16.031	-28.562	-224.450	1.00	0.00	H
ATOM	16387	CA	VAL	N	156	-17.812	-27.554	-225.070	1.00	0.00	C
ATOM	16388	HA	VAL	N	156	-17.481	-26.528	-225.230	1.00	0.00	H
ATOM	16389	C	VAL	N	156	-19.280	-27.480	-224.615	1.00	0.00	C
ATOM	16390	O	VAL	N	156	-19.891	-26.420	-224.751	1.00	0.00	O
ATOM	16391	CB	VAL	N	156	-17.705	-28.285	-226.426	1.00	0.00	C
ATOM	16392	HB	VAL	N	156	-18.079	-29.304	-226.311	1.00	0.00	H
ATOM	16393	CG1	VAL	N	156	-18.534	-27.588	-227.516	1.00	0.00	C
ATOM	16394	1HG1	VAL	N	156	-19.592	-27.603	-227.257	1.00	0.00	H
ATOM	16395	2HG1	VAL	N	156	-18.409	-28.108	-228.465	1.00	0.00	H
ATOM	16396	3HG1	VAL	N	156	-18.204	-26.554	-227.626	1.00	0.00	H
ATOM	16397	CG2	VAL	N	156	-16.259	-28.360	-226.938	1.00	0.00	C
ATOM	16398	1HG2	VAL	N	156	-15.820	-27.362	-226.976	1.00	0.00	H
ATOM	16399	2HG2	VAL	N	156	-16.228	-28.807	-227.930	1.00	0.00	H
ATOM	16400	3HG2	VAL	N	156	-15.650	-28.977	-226.276	1.00	0.00	H
ATOM	16401	N	GLU	N	157	-19.875	-28.545	-224.065	1.00	0.00	N
ATOM	16402	H	GLU	N	157	-19.330	-29.379	-223.898	1.00	0.00	H
ATOM	16403	CA	GLU	N	157	-21.284	-28.506	-223.627	1.00	0.00	C
ATOM	16404	HA	GLU	N	157	-21.848	-27.959	-224.384	1.00	0.00	H
ATOM	16405	C	GLU	N	157	-21.470	-27.756	-222.296	1.00	0.00	C
ATOM	16406	O	GLU	N	157	-20.678	-27.902	-221.367	1.00	0.00	O
ATOM	16407	CB	GLU	N	157	-21.909	-29.903	-223.539	1.00	0.00	C
ATOM	16408	1HB	GLU	N	157	-21.398	-30.495	-222.782	1.00	0.00	H
ATOM	16409	2HB	GLU	N	157	-22.949	-29.783	-223.228	1.00	0.00	H
ATOM	16410	CG	GLU	N	157	-21.886	-30.627	-224.892	1.00	0.00	C
ATOM	16411	1HG	GLU	N	157	-22.174	-29.923	-225.678	1.00	0.00	H
ATOM	16412	2HG	GLU	N	157	-20.869	-30.967	-225.105	1.00	0.00	H
ATOM	16413	CD	GLU	N	157	-22.857	-31.812	-224.900	1.00	0.00	C
ATOM	16414	OE1	GLU	N	157	-22.420	-32.927	-224.540	1.00	0.00	O
ATOM	16415	OE2	GLU	N	157	-24.031	-31.588	-225.280	1.00	0.00	O
ATOM	16416	N	ILE	N	158	-22.532	-26.941	-222.225	1.00	0.00	N
ATOM	16417	H	ILE	N	158	-23.153	-26.948	-223.018	1.00	0.00	H
ATOM	16418	CA	ILE	N	158	-22.696	-25.815	-221.286	1.00	0.00	C
ATOM	16419	HA	ILE	N	158	-21.976	-25.048	-221.558	1.00	0.00	H
ATOM	16420	C	ILE	N	158	-22.394	-26.186	-219.824	1.00	0.00	C
ATOM	16421	O	ILE	N	158	-21.511	-25.585	-219.208	1.00	0.00	O
ATOM	16422	CB	ILE	N	158	-24.095	-25.163	-221.454	1.00	0.00	C
ATOM	16423	HB	ILE	N	158	-24.855	-25.947	-221.438	1.00	0.00	H
ATOM	16424	CG1	ILE	N	158	-24.243	-24.354	-222.769	1.00	0.00	C

ATOM	16425	1HG1	ILE	N	158	-25.228	-23.884	-222.770	1.00	0.00	H
ATOM	16426	2HG1	ILE	N	158	-23.499	-23.556	-222.784	1.00	0.00	H
ATOM	16427	CG2	ILE	N	158	-24.415	-24.178	-220.310	1.00	0.00	C
ATOM	16428	1HG2	ILE	N	158	-24.499	-24.699	-219.355	1.00	0.00	H
ATOM	16429	2HG2	ILE	N	158	-25.368	-23.680	-220.487	1.00	0.00	H
ATOM	16430	3HG2	ILE	N	158	-23.632	-23.422	-220.228	1.00	0.00	H
ATOM	16431	CD1	ILE	N	158	-24.132	-25.141	-224.082	1.00	0.00	C
ATOM	16432	1HD1	ILE	N	158	-23.096	-25.420	-224.272	1.00	0.00	H
ATOM	16433	2HD1	ILE	N	158	-24.466	-24.510	-224.906	1.00	0.00	H
ATOM	16434	3HD1	ILE	N	158	-24.761	-26.031	-224.040	1.00	0.00	H
ATOM	16435	N	ASP	N	159	-23.126	-27.156	-219.274	1.00	0.00	N
ATOM	16436	H	ASP	N	159	-23.799	-27.639	-219.845	1.00	0.00	H
ATOM	16437	CA	ASP	N	159	-23.199	-27.352	-217.821	1.00	0.00	C
ATOM	16438	HA	ASP	N	159	-23.287	-26.367	-217.363	1.00	0.00	H
ATOM	16439	C	ASP	N	159	-21.961	-28.034	-217.211	1.00	0.00	C
ATOM	16440	O	ASP	N	159	-21.666	-27.852	-216.034	1.00	0.00	O
ATOM	16441	CB	ASP	N	159	-24.479	-28.131	-217.488	1.00	0.00	C
ATOM	16442	1HB	ASP	N	159	-25.303	-27.740	-218.090	1.00	0.00	H
ATOM	16443	2HB	ASP	N	159	-24.342	-29.183	-217.744	1.00	0.00	H
ATOM	16444	CG	ASP	N	159	-24.862	-27.983	-216.014	1.00	0.00	C
ATOM	16445	OD1	ASP	N	159	-25.071	-29.024	-215.359	1.00	0.00	O
ATOM	16446	OD2	ASP	N	159	-24.977	-26.818	-215.574	1.00	0.00	O
ATOM	16447	N	ALA	N	160	-21.187	-28.780	-218.005	1.00	0.00	N
ATOM	16448	H	ALA	N	160	-21.415	-28.840	-218.986	1.00	0.00	H
ATOM	16449	CA	ALA	N	160	-20.013	-29.499	-217.507	1.00	0.00	C
ATOM	16450	HA	ALA	N	160	-20.329	-30.195	-216.728	1.00	0.00	H
ATOM	16451	C	ALA	N	160	-18.976	-28.552	-216.878	1.00	0.00	C
ATOM	16452	O	ALA	N	160	-18.612	-28.718	-215.714	1.00	0.00	O
ATOM	16453	CB	ALA	N	160	-19.420	-30.295	-218.667	1.00	0.00	C
ATOM	16454	1HB	ALA	N	160	-18.506	-30.790	-218.338	1.00	0.00	H
ATOM	16455	2HB	ALA	N	160	-19.185	-29.620	-219.487	1.00	0.00	H
ATOM	16456	3HB	ALA	N	160	-20.137	-31.041	-219.012	1.00	0.00	H
ATOM	16457	N	VAL	N	161	-18.566	-27.508	-217.611	1.00	0.00	N
ATOM	16458	H	VAL	N	161	-18.883	-27.432	-218.566	1.00	0.00	H
ATOM	16459	CA	VAL	N	161	-17.680	-26.474	-217.054	1.00	0.00	C
ATOM	16460	HA	VAL	N	161	-16.889	-26.998	-216.521	1.00	0.00	H
ATOM	16461	C	VAL	N	161	-18.391	-25.600	-216.012	1.00	0.00	C
ATOM	16462	O	VAL	N	161	-17.734	-25.094	-215.117	1.00	0.00	O
ATOM	16463	CB	VAL	N	161	-16.992	-25.638	-218.157	1.00	0.00	C
ATOM	16464	HB	VAL	N	161	-16.898	-26.260	-219.048	1.00	0.00	H
ATOM	16465	CG1	VAL	N	161	-17.762	-24.370	-218.546	1.00	0.00	C
ATOM	16466	1HG1	VAL	N	161	-17.675	-23.621	-217.758	1.00	0.00	H
ATOM	16467	2HG1	VAL	N	161	-18.812	-24.606	-218.694	1.00	0.00	H
ATOM	16468	3HG1	VAL	N	161	-17.333	-23.960	-219.459	1.00	0.00	H
ATOM	16469	CG2	VAL	N	161	-15.577	-25.232	-217.734	1.00	0.00	C
ATOM	16470	1HG2	VAL	N	161	-15.612	-24.631	-216.824	1.00	0.00	H
ATOM	16471	2HG2	VAL	N	161	-15.102	-24.653	-218.526	1.00	0.00	H
ATOM	16472	3HG2	VAL	N	161	-14.976	-26.123	-217.547	1.00	0.00	H
ATOM	16473	N	GLN	N	162	-19.720	-25.445	-216.083	1.00	0.00	N
ATOM	16474	H	GLN	N	162	-20.227	-25.942	-216.799	1.00	0.00	H
ATOM	16475	CA	GLN	N	162	-20.501	-24.664	-215.111	1.00	0.00	C
ATOM	16476	HA	GLN	N	162	-20.058	-23.670	-215.039	1.00	0.00	H
ATOM	16477	C	GLN	N	162	-20.466	-25.273	-213.698	1.00	0.00	C
ATOM	16478	O	GLN	N	162	-20.470	-24.537	-212.717	1.00	0.00	O
ATOM	16479	CB	GLN	N	162	-21.938	-24.511	-215.634	1.00	0.00	C
ATOM	16480	1HB	GLN	N	162	-21.896	-24.189	-216.676	1.00	0.00	H
ATOM	16481	2HB	GLN	N	162	-22.440	-25.474	-215.583	1.00	0.00	H
ATOM	16482	CG	GLN	N	162	-22.783	-23.498	-214.851	1.00	0.00	C
ATOM	16483	1HG	GLN	N	162	-23.026	-23.906	-213.869	1.00	0.00	H
ATOM	16484	2HG	GLN	N	162	-22.212	-22.578	-214.714	1.00	0.00	H
ATOM	16485	CD	GLN	N	162	-24.078	-23.160	-215.586	1.00	0.00	C
ATOM	16486	OE1	GLN	N	162	-24.281	-22.061	-216.077	1.00	0.00	O
ATOM	16487	NE2	GLN	N	162	-25.003	-24.079	-215.746	1.00	0.00	N
ATOM	16488	1HE2	GLN	N	162	-25.843	-23.797	-216.201	1.00	0.00	H
ATOM	16489	2HE2	GLN	N	162	-24.871	-25.050	-215.434	1.00	0.00	H
ATOM	16490	N	ASN	N	163	-20.367	-26.602	-213.592	1.00	0.00	N
ATOM	16491	H	ASN	N	163	-20.436	-27.153	-214.437	1.00	0.00	H
ATOM	16492	CA	ASN	N	163	-20.083	-27.290	-212.330	1.00	0.00	C
ATOM	16493	HA	ASN	N	163	-20.592	-26.780	-211.508	1.00	0.00	H
ATOM	16494	C	ASN	N	163	-18.572	-27.265	-212.014	1.00	0.00	C
ATOM	16495	O	ASN	N	163	-18.174	-26.885	-210.914	1.00	0.00	O
ATOM	16496	CB	ASN	N	163	-20.617	-28.732	-212.414	1.00	0.00	C
ATOM	16497	1HB	ASN	N	163	-20.221	-29.232	-213.297	1.00	0.00	H
ATOM	16498	2HB	ASN	N	163	-20.274	-29.285	-211.541	1.00	0.00	H
ATOM	16499	CG	ASN	N	163	-22.136	-28.816	-212.425	1.00	0.00	C
ATOM	16500	OD1	ASN	N	163	-22.778	-28.963	-211.399	1.00	0.00	O
ATOM	16501	ND2	ASN	N	163	-22.748	-28.743	-213.584	1.00	0.00	N



ATOM	16502	1HD2	ASN	N	163	-23.759	-28.804	-213.626	1.00	0.00	H
ATOM	16503	2HD2	ASN	N	163	-22.240	-28.532	-214.428	1.00	0.00	H
ATOM	16504	N	ALA	N	164	-17.713	-27.615	-212.981	1.00	0.00	N
ATOM	16505	H	ALA	N	164	-18.082	-27.931	-213.869	1.00	0.00	H
ATOM	16506	CA	ALA	N	164	-16.260	-27.687	-212.773	1.00	0.00	C
ATOM	16507	HA	ALA	N	164	-16.083	-28.323	-211.904	1.00	0.00	H
ATOM	16508	C	ALA	N	164	-15.571	-26.336	-212.467	1.00	0.00	C
ATOM	16509	O	ALA	N	164	-14.466	-26.340	-211.927	1.00	0.00	O
ATOM	16510	CB	ALA	N	164	-15.615	-28.372	-213.983	1.00	0.00	C
ATOM	16511	1HB	ALA	N	164	-14.556	-28.539	-213.781	1.00	0.00	H
ATOM	16512	2HB	ALA	N	164	-15.707	-27.741	-214.864	1.00	0.00	H
ATOM	16513	3HB	ALA	N	164	-16.090	-29.336	-214.167	1.00	0.00	H
ATOM	16514	N	LEU	N	165	-16.196	-25.191	-212.778	1.00	0.00	N
ATOM	16515	H	LEU	N	165	-17.048	-25.244	-213.323	1.00	0.00	H
ATOM	16516	CA	LEU	N	165	-15.707	-23.855	-212.403	1.00	0.00	C
ATOM	16517	HA	LEU	N	165	-14.619	-23.883	-212.454	1.00	0.00	H
ATOM	16518	C	LEU	N	165	-16.046	-23.452	-210.957	1.00	0.00	C
ATOM	16519	O	LEU	N	165	-15.485	-22.470	-210.483	1.00	0.00	O
ATOM	16520	CB	LEU	N	165	-16.151	-22.795	-213.439	1.00	0.00	C
ATOM	16521	1HB	LEU	N	165	-15.525	-21.911	-213.310	1.00	0.00	H
ATOM	16522	2HB	LEU	N	165	-15.920	-23.201	-214.424	1.00	0.00	H
ATOM	16523	CG	LEU	N	165	-17.627	-22.337	-213.431	1.00	0.00	C
ATOM	16524	HG	LEU	N	165	-18.271	-23.190	-213.229	1.00	0.00	H
ATOM	16525	CD1	LEU	N	165	-17.930	-21.220	-212.427	1.00	0.00	C
ATOM	16526	1HD1	LEU	N	165	-17.744	-21.547	-211.409	1.00	0.00	H
ATOM	16527	2HD1	LEU	N	165	-18.978	-20.932	-212.495	1.00	0.00	H
ATOM	16528	3HD1	LEU	N	165	-17.302	-20.351	-212.625	1.00	0.00	H
ATOM	16529	CD2	LEU	N	165	-17.987	-21.757	-214.804	1.00	0.00	C
ATOM	16530	1HD2	LEU	N	165	-17.354	-20.896	-215.020	1.00	0.00	H
ATOM	16531	2HD2	LEU	N	165	-19.032	-21.447	-214.810	1.00	0.00	H
ATOM	16532	3HD2	LEU	N	165	-17.837	-22.511	-215.573	1.00	0.00	H
ATOM	16533	N	LEU	N	166	-16.912	-24.203	-210.263	1.00	0.00	N
ATOM	16534	H	LEU	N	166	-17.299	-25.018	-210.722	1.00	0.00	H
ATOM	16535	CA	LEU	N	166	-17.559	-23.792	-209.005	1.00	0.00	C
ATOM	16536	HA	LEU	N	166	-17.131	-22.842	-208.682	1.00	0.00	H
ATOM	16537	C	LEU	N	166	-17.359	-24.788	-207.840	1.00	0.00	C
ATOM	16538	O	LEU	N	166	-17.766	-24.518	-206.716	1.00	0.00	O
ATOM	16539	CB	LEU	N	166	-19.055	-23.587	-209.339	1.00	0.00	C
ATOM	16540	1HB	LEU	N	166	-19.125	-22.950	-210.220	1.00	0.00	H
ATOM	16541	2HB	LEU	N	166	-19.479	-24.556	-209.610	1.00	0.00	H
ATOM	16542	CG	LEU	N	166	-19.945	-22.965	-208.245	1.00	0.00	C
ATOM	16543	HG	LEU	N	166	-20.019	-23.639	-207.394	1.00	0.00	H
ATOM	16544	CD1	LEU	N	166	-19.431	-21.604	-207.771	1.00	0.00	C
ATOM	16545	1HD1	LEU	N	166	-18.480	-21.731	-207.252	1.00	0.00	H
ATOM	16546	2HD1	LEU	N	166	-20.136	-21.165	-207.066	1.00	0.00	H
ATOM	16547	3HD1	LEU	N	166	-19.294	-20.932	-208.617	1.00	0.00	H
ATOM	16548	CD2	LEU	N	166	-21.357	-22.769	-208.802	1.00	0.00	C
ATOM	16549	1HD2	LEU	N	166	-22.004	-22.372	-208.020	1.00	0.00	H
ATOM	16550	2HD2	LEU	N	166	-21.752	-23.728	-209.137	1.00	0.00	H
ATOM	16551	3HD2	LEU	N	166	-21.334	-22.074	-209.641	1.00	0.00	H
ATOM	16552	N	LEU	N	167	-16.752	-25.949	-208.099	1.00	0.00	N
ATOM	16553	H	LEU	N	167	-16.438	-26.092	-209.045	1.00	0.00	H
ATOM	16554	CA	LEU	N	167	-16.688	-27.097	-207.180	1.00	0.00	C
ATOM	16555	HA	LEU	N	167	-16.938	-26.773	-206.169	1.00	0.00	H
ATOM	16556	C	LEU	N	167	-15.255	-27.664	-207.119	1.00	0.00	C
ATOM	16557	O	LEU	N	167	-15.036	-28.847	-207.378	1.00	0.00	O
ATOM	16558	CB	LEU	N	167	-17.718	-28.156	-207.638	1.00	0.00	C
ATOM	16559	1HB	LEU	N	167	-17.442	-28.471	-208.644	1.00	0.00	H
ATOM	16560	2HB	LEU	N	167	-17.635	-29.025	-206.983	1.00	0.00	H
ATOM	16561	CG	LEU	N	167	-19.194	-27.715	-207.661	1.00	0.00	C
ATOM	16562	HG	LEU	N	167	-19.312	-26.833	-208.290	1.00	0.00	H
ATOM	16563	CD1	LEU	N	167	-20.045	-28.838	-208.257	1.00	0.00	C
ATOM	16564	1HD1	LEU	N	167	-21.084	-28.517	-208.326	1.00	0.00	H
ATOM	16565	2HD1	LEU	N	167	-19.977	-29.731	-207.635	1.00	0.00	H
ATOM	16566	3HD1	LEU	N	167	-19.686	-29.071	-209.258	1.00	0.00	H
ATOM	16567	CD2	LEU	N	167	-19.736	-27.406	-206.264	1.00	0.00	C
ATOM	16568	1HD2	LEU	N	167	-20.790	-27.141	-206.329	1.00	0.00	H
ATOM	16569	2HD2	LEU	N	167	-19.199	-26.558	-205.839	1.00	0.00	H
ATOM	16570	3HD2	LEU	N	167	-19.613	-28.271	-205.613	1.00	0.00	H
ATOM	16571	N	ASN	N	168	-14.264	-26.788	-206.927	1.00	0.00	N
ATOM	16572	H	ASN	N	168	-14.524	-25.827	-206.741	1.00	0.00	H
ATOM	16573	CA	ASN	N	168	-12.902	-27.013	-207.431	1.00	0.00	C
ATOM	16574	HA	ASN	N	168	-12.707	-28.086	-207.481	1.00	0.00	H
ATOM	16575	C	ASN	N	168	-11.743	-26.413	-206.604	1.00	0.00	C
ATOM	16576	O	ASN	N	168	-10.724	-27.076	-206.436	1.00	0.00	O
ATOM	16577	CB	ASN	N	168	-12.871	-26.444	-208.867	1.00	0.00	C
ATOM	16578	1HB	ASN	N	168	-11.864	-26.544	-209.268	1.00	0.00	H

ATOM	16579	2HB	ASN	N	168	-13.536	-27.036	-209.494	1.00	0.00	H
ATOM	16580	CG	ASN	N	168	-13.282	-24.979	-208.989	1.00	0.00	C
ATOM	16581	OD1	ASN	N	168	-13.653	-24.301	-208.048	1.00	0.00	O
ATOM	16582	ND2	ASN	N	168	-13.283	-24.443	-210.176	1.00	0.00	N
ATOM	16583	1HD2	ASN	N	168	-13.662	-23.504	-210.209	1.00	0.00	H
ATOM	16584	2HD2	ASN	N	168	-13.219	-25.046	-210.984	1.00	0.00	H
ATOM	16585	N	GLU	N	169	-11.843	-25.171	-206.132	1.00	0.00	N
ATOM	16586	H	GLU	N	169	-12.700	-24.666	-206.329	1.00	0.00	H
ATOM	16587	CA	GLU	N	169	-10.678	-24.340	-205.773	1.00	0.00	C
ATOM	16588	HA	GLU	N	169	-9.894	-24.553	-206.499	1.00	0.00	H
ATOM	16589	C	GLU	N	169	-10.030	-24.621	-204.401	1.00	0.00	C
ATOM	16590	O	GLU	N	169	-9.347	-23.756	-203.857	1.00	0.00	O
ATOM	16591	CB	GLU	N	169	-11.043	-22.856	-205.950	1.00	0.00	C
ATOM	16592	1HB	GLU	N	169	-10.120	-22.283	-205.896	1.00	0.00	H
ATOM	16593	2HB	GLU	N	169	-11.444	-22.708	-206.954	1.00	0.00	H
ATOM	16594	CG	GLU	N	169	-12.045	-22.297	-204.924	1.00	0.00	C
ATOM	16595	1HG	GLU	N	169	-13.051	-22.633	-205.184	1.00	0.00	H
ATOM	16596	2HG	GLU	N	169	-11.810	-22.674	-203.928	1.00	0.00	H
ATOM	16597	CD	GLU	N	169	-11.989	-20.766	-204.904	1.00	0.00	C
ATOM	16598	OE1	GLU	N	169	-12.087	-20.158	-205.992	1.00	0.00	O
ATOM	16599	OE2	GLU	N	169	-11.756	-20.177	-203.824	1.00	0.00	O
ATOM	16600	N	THR	N	170	-10.241	-25.808	-203.827	1.00	0.00	N
ATOM	16601	H	THR	N	170	-10.803	-26.468	-204.344	1.00	0.00	H
ATOM	16602	CA	THR	N	170	-9.938	-26.086	-202.409	1.00	0.00	C
ATOM	16603	HA	THR	N	170	-9.320	-25.280	-202.020	1.00	0.00	H
ATOM	16604	C	THR	N	170	-9.126	-27.372	-202.189	1.00	0.00	C
ATOM	16605	O	THR	N	170	-8.559	-27.533	-201.112	1.00	0.00	O
ATOM	16606	CB	THR	N	170	-11.242	-26.069	-201.586	1.00	0.00	C
ATOM	16607	HB	THR	N	170	-11.868	-26.900	-201.911	1.00	0.00	H
ATOM	16608	OG1	THR	N	170	-11.943	-24.872	-201.832	1.00	0.00	O
ATOM	16609	HG1	THR	N	170	-11.423	-24.135	-201.441	1.00	0.00	H
ATOM	16610	CG2	THR	N	170	-11.077	-26.152	-200.068	1.00	0.00	C
ATOM	16611	1HG2	THR	N	170	-10.721	-27.141	-199.783	1.00	0.00	H
ATOM	16612	2HG2	THR	N	170	-12.040	-25.981	-199.587	1.00	0.00	H
ATOM	16613	3HG2	THR	N	170	-10.370	-25.398	-199.724	1.00	0.00	H
ATOM	16614	N	GLU	N	171	-8.972	-28.251	-203.192	1.00	0.00	N
ATOM	16615	H	GLU	N	171	-9.424	-28.076	-204.078	1.00	0.00	H
ATOM	16616	CA	GLU	N	171	-8.026	-29.384	-203.123	1.00	0.00	C
ATOM	16617	HA	GLU	N	171	-7.172	-29.051	-202.539	1.00	0.00	H
ATOM	16618	C	GLU	N	171	-7.513	-29.811	-204.512	1.00	0.00	C
ATOM	16619	O	GLU	N	171	-8.287	-30.216	-205.386	1.00	0.00	O
ATOM	16620	CB	GLU	N	171	-8.647	-30.576	-202.362	1.00	0.00	C
ATOM	16621	1HB	GLU	N	171	-9.276	-30.183	-201.562	1.00	0.00	H
ATOM	16622	2HB	GLU	N	171	-9.290	-31.160	-203.023	1.00	0.00	H
ATOM	16623	CG	GLU	N	171	-7.600	-31.489	-201.692	1.00	0.00	C
ATOM	16624	1HG	GLU	N	171	-6.830	-30.876	-201.219	1.00	0.00	H
ATOM	16625	2HG	GLU	N	171	-8.101	-32.039	-200.891	1.00	0.00	H
ATOM	16626	CD	GLU	N	171	-6.956	-32.505	-202.645	1.00	0.00	C
ATOM	16627	OE1	GLU	N	171	-7.565	-33.575	-202.858	1.00	0.00	O
ATOM	16628	OE2	GLU	N	171	-5.844	-32.236	-203.162	1.00	0.00	O
ATOM	16629	N	LEU	N	172	-6.193	-29.738	-204.705	1.00	0.00	N
ATOM	16630	H	LEU	N	172	-5.625	-29.462	-203.908	1.00	0.00	H
ATOM	16631	CA	LEU	N	172	-5.476	-30.286	-205.859	1.00	0.00	C
ATOM	16632	HA	LEU	N	172	-6.065	-31.101	-206.269	1.00	0.00	H
ATOM	16633	C	LEU	N	172	-4.114	-30.835	-205.400	1.00	0.00	C
ATOM	16634	O	LEU	N	172	-3.363	-30.127	-204.727	1.00	0.00	O
ATOM	16635	CB	LEU	N	172	-5.290	-29.184	-206.930	1.00	0.00	C
ATOM	16636	1HB	LEU	N	172	-6.034	-28.401	-206.774	1.00	0.00	H
ATOM	16637	2HB	LEU	N	172	-4.317	-28.714	-206.779	1.00	0.00	H
ATOM	16638	CG	LEU	N	172	-5.383	-29.635	-208.404	1.00	0.00	C
ATOM	16639	HG	LEU	N	172	-4.882	-28.890	-209.018	1.00	0.00	H
ATOM	16640	CD1	LEU	N	172	-4.718	-30.975	-208.716	1.00	0.00	C
ATOM	16641	1HD1	LEU	N	172	-5.255	-31.795	-208.244	1.00	0.00	H
ATOM	16642	2HD1	LEU	N	172	-3.687	-30.957	-208.370	1.00	0.00	H
ATOM	16643	3HD1	LEU	N	172	-4.708	-31.140	-209.790	1.00	0.00	H
ATOM	16644	CD2	LEU	N	172	-6.842	-29.683	-208.852	1.00	0.00	C
ATOM	16645	1HD2	LEU	N	172	-6.913	-30.034	-209.880	1.00	0.00	H
ATOM	16646	2HD2	LEU	N	172	-7.275	-28.685	-208.790	1.00	0.00	H
ATOM	16647	3HD2	LEU	N	172	-7.404	-30.339	-208.189	1.00	0.00	H
ATOM	16648	N	HIS	N	173	-3.748	-32.055	-205.814	1.00	0.00	N
ATOM	16649	H	HIS	N	173	-4.425	-32.607	-206.323	1.00	0.00	H
ATOM	16650	CA	HIS	N	173	-2.431	-32.664	-205.546	1.00	0.00	C
ATOM	16651	HA	HIS	N	173	-2.468	-33.682	-205.935	1.00	0.00	H
ATOM	16652	C	HIS	N	173	-2.104	-32.798	-204.031	1.00	0.00	C
ATOM	16653	O	HIS	N	173	-0.940	-32.927	-203.647	1.00	0.00	O
ATOM	16654	CB	HIS	N	173	-1.370	-31.895	-206.379	1.00	0.00	C
ATOM	16655	1HB	HIS	N	173	-1.731	-31.833	-207.405	1.00	0.00	H

ATOM	16656	2HB	HIS	N	173	-1.285	-30.877	-205.999	1.00	0.00	H
ATOM	16657	CG	HIS	N	173	0.019	-32.483	-206.446	1.00	0.00	C
ATOM	16658	ND1	HIS	N	173	0.352	-33.741	-206.880	1.00	0.00	N
ATOM	16659	HD1	HIS	N	173	-0.303	-34.398	-207.324	1.00	0.00	H
ATOM	16660	CD2	HIS	N	173	1.197	-31.829	-206.209	1.00	0.00	C
ATOM	16661	HD2	HIS	N	173	1.291	-30.796	-205.903	1.00	0.00	H
ATOM	16662	CE1	HIS	N	173	1.687	-33.851	-206.890	1.00	0.00	C
ATOM	16663	HE1	HIS	N	173	2.228	-34.708	-207.271	1.00	0.00	H
ATOM	16664	NE2	HIS	N	173	2.255	-32.729	-206.417	1.00	0.00	N
ATOM	16665	N	GLY	N	174	-3.097	-32.746	-203.133	1.00	0.00	N
ATOM	16666	H	GLY	N	174	-4.060	-32.630	-203.457	1.00	0.00	H
ATOM	16667	CA	GLY	N	174	-2.899	-32.714	-201.676	1.00	0.00	C
ATOM	16668	1HA	GLY	N	174	-3.841	-32.993	-201.204	1.00	0.00	H
ATOM	16669	2HA	GLY	N	174	-2.137	-33.437	-201.388	1.00	0.00	H
ATOM	16670	C	GLY	N	174	-2.500	-31.334	-201.131	1.00	0.00	C
ATOM	16671	O	GLY	N	174	-1.895	-31.244	-200.064	1.00	0.00	O
ATOM	16672	N	ARG	N	175	-2.781	-30.270	-201.890	1.00	0.00	N
ATOM	16673	H	ARG	N	175	-3.300	-30.460	-202.745	1.00	0.00	H
ATOM	16674	CA	ARG	N	175	-2.575	-28.842	-201.585	1.00	0.00	C
ATOM	16675	HA	ARG	N	175	-2.444	-28.704	-200.511	1.00	0.00	H
ATOM	16676	C	ARG	N	175	-3.854	-28.082	-202.002	1.00	0.00	C
ATOM	16677	O	ARG	N	175	-4.848	-28.713	-202.349	1.00	0.00	O
ATOM	16678	CB	ARG	N	175	-1.329	-28.310	-202.338	1.00	0.00	C
ATOM	16679	1HB	ARG	N	175	-1.466	-28.463	-203.410	1.00	0.00	H
ATOM	16680	2HB	ARG	N	175	-1.276	-27.232	-202.179	1.00	0.00	H
ATOM	16681	CG	ARG	N	175	0.051	-28.863	-201.925	1.00	0.00	C
ATOM	16682	1HG	ARG	N	175	0.796	-28.184	-202.345	1.00	0.00	H
ATOM	16683	2HG	ARG	N	175	0.150	-28.832	-200.839	1.00	0.00	H
ATOM	16684	CD	ARG	N	175	0.364	-30.282	-202.427	1.00	0.00	C
ATOM	16685	1HD	ARG	N	175	0.061	-31.008	-201.673	1.00	0.00	H
ATOM	16686	2HD	ARG	N	175	-0.209	-30.461	-203.339	1.00	0.00	H
ATOM	16687	NE	ARG	N	175	1.798	-30.457	-202.730	1.00	0.00	N
ATOM	16688	HE	ARG	N	175	2.371	-29.613	-202.771	1.00	0.00	H
ATOM	16689	CZ	ARG	N	175	2.354	-31.508	-203.298	1.00	0.00	C
ATOM	16690	NH1	ARG	N	175	1.758	-32.656	-203.410	1.00	0.00	N
ATOM	16691	1HH1	ARG	N	175	0.769	-32.690	-203.175	1.00	0.00	H
ATOM	16692	2HH1	ARG	N	175	2.066	-33.252	-204.155	1.00	0.00	H
ATOM	16693	NH2	ARG	N	175	3.515	-31.401	-203.866	1.00	0.00	N
ATOM	16694	1HH2	ARG	N	175	3.876	-30.444	-203.947	1.00	0.00	H
ATOM	16695	2HH2	ARG	N	175	3.707	-32.022	-204.630	1.00	0.00	H
ATOM	16696	N	GLN	N	176	-3.844	-26.748	-202.036	1.00	0.00	N
ATOM	16697	H	GLN	N	176	-2.993	-26.264	-201.795	1.00	0.00	H
ATOM	16698	CA	GLN	N	176	-4.840	-25.981	-202.801	1.00	0.00	C
ATOM	16699	HA	GLN	N	176	-5.314	-26.664	-203.508	1.00	0.00	H
ATOM	16700	C	GLN	N	176	-4.179	-24.915	-203.685	1.00	0.00	C
ATOM	16701	O	GLN	N	176	-2.959	-24.766	-203.680	1.00	0.00	O
ATOM	16702	CB	GLN	N	176	-5.989	-25.444	-201.920	1.00	0.00	C
ATOM	16703	1HB	GLN	N	176	-6.802	-25.161	-202.592	1.00	0.00	H
ATOM	16704	2HB	GLN	N	176	-6.357	-26.257	-201.297	1.00	0.00	H
ATOM	16705	CG	GLN	N	176	-5.680	-24.239	-201.012	1.00	0.00	C
ATOM	16706	1HG	GLN	N	176	-5.266	-24.595	-200.069	1.00	0.00	H
ATOM	16707	2HG	GLN	N	176	-4.945	-23.592	-201.488	1.00	0.00	H
ATOM	16708	CD	GLN	N	176	-6.931	-23.399	-200.734	1.00	0.00	C
ATOM	16709	OE1	GLN	N	176	-6.983	-22.221	-201.048	1.00	0.00	O
ATOM	16710	NE2	GLN	N	176	-7.984	-23.966	-200.185	1.00	0.00	N
ATOM	16711	1HE2	GLN	N	176	-8.831	-23.398	-200.088	1.00	0.00	H
ATOM	16712	2HE2	GLN	N	176	-7.983	-24.935	-199.927	1.00	0.00	H
ATOM	16713	N	LEU	N	177	-5.007	-24.244	-204.482	1.00	0.00	N
ATOM	16714	H	LEU	N	177	-6.001	-24.354	-204.321	1.00	0.00	H
ATOM	16715	CA	LEU	N	177	-4.672	-23.314	-205.563	1.00	0.00	C
ATOM	16716	HA	LEU	N	177	-3.857	-22.658	-205.250	1.00	0.00	H
ATOM	16717	C	LEU	N	177	-5.907	-22.440	-205.848	1.00	0.00	C
ATOM	16718	O	LEU	N	177	-6.931	-22.633	-205.192	1.00	0.00	O
ATOM	16719	CB	LEU	N	177	-4.215	-24.127	-206.794	1.00	0.00	C
ATOM	16720	1HB	LEU	N	177	-4.071	-23.440	-207.627	1.00	0.00	H
ATOM	16721	2HB	LEU	N	177	-3.233	-24.540	-206.556	1.00	0.00	H
ATOM	16722	CG	LEU	N	177	-5.113	-25.295	-207.258	1.00	0.00	C
ATOM	16723	HG	LEU	N	177	-5.226	-26.019	-206.452	1.00	0.00	H
ATOM	16724	CD1	LEU	N	177	-6.512	-24.873	-207.716	1.00	0.00	C
ATOM	16725	1HD1	LEU	N	177	-6.443	-24.011	-208.377	1.00	0.00	H
ATOM	16726	2HD1	LEU	N	177	-7.118	-24.616	-206.849	1.00	0.00	H
ATOM	16727	3HD1	LEU	N	177	-7.010	-25.695	-208.229	1.00	0.00	H
ATOM	16728	CD2	LEU	N	177	-4.411	-26.007	-208.415	1.00	0.00	C
ATOM	16729	1HD2	LEU	N	177	-4.069	-25.281	-209.148	1.00	0.00	H
ATOM	16730	2HD2	LEU	N	177	-5.092	-26.703	-208.896	1.00	0.00	H
ATOM	16731	3HD2	LEU	N	177	-3.551	-26.552	-208.030	1.00	0.00	H
ATOM	16732	N	LYS	N	178	-5.883	-21.536	-206.838	1.00	0.00	N

ATOM	16733	H	LYS	N	178	-5.028	-21.421-207.380	1.00	0.00	H
ATOM	16734	CA	LYS	N	178	-7.086	-20.768-207.233	1.00	0.00	C
ATOM	16735	HA	LYS	N	178	-7.958	-21.300-206.858	1.00	0.00	H
ATOM	16736	C	LYS	N	178	-7.322	-20.765-208.749	1.00	0.00	C
ATOM	16737	O	LYS	N	178	-6.501	-21.233-209.534	1.00	0.00	O
ATOM	16738	CB	LYS	N	178	-7.078	-19.367-206.567	1.00	0.00	C
ATOM	16739	1HB	LYS	N	178	-6.164	-18.846-206.860	1.00	0.00	H
ATOM	16740	2HB	LYS	N	178	-7.923	-18.783-206.934	1.00	0.00	H
ATOM	16741	CG	LYS	N	178	-7.154	-19.395-205.019	1.00	0.00	C
ATOM	16742	1HG	LYS	N	178	-6.326	-19.988-204.631	1.00	0.00	H
ATOM	16743	2HG	LYS	N	178	-7.019	-18.382-204.641	1.00	0.00	H
ATOM	16744	CD	LYS	N	178	-8.483	-19.946-204.465	1.00	0.00	C
ATOM	16745	1HD	LYS	N	178	-9.273	-19.205-204.599	1.00	0.00	H
ATOM	16746	2HD	LYS	N	178	-8.762	-20.833-205.018	1.00	0.00	H
ATOM	16747	CE	LYS	N	178	-8.392	-20.348-202.987	1.00	0.00	C
ATOM	16748	1HE	LYS	N	178	-7.453	-20.885-202.826	1.00	0.00	H
ATOM	16749	2HE	LYS	N	178	-8.388	-19.450-202.365	1.00	0.00	H
ATOM	16750	NZ	LYS	N	178	-9.518	-21.237-202.609	1.00	0.00	N
ATOM	16751	1HZ	LYS	N	178	-9.452	-22.124-203.102	1.00	0.00	H
ATOM	16752	2HZ	LYS	N	178	-10.421	-20.820-202.838	1.00	0.00	H
ATOM	16753	3HZ	LYS	N	178	-9.523	-21.510-201.628	1.00	0.00	H
ATOM	16754	N	VAL	N	179	-8.523	-20.346-209.153	1.00	0.00	N
ATOM	16755	H	VAL	N	179	-9.115	-19.915-208.459	1.00	0.00	H
ATOM	16756	CA	VAL	N	179	-9.136	-20.656-210.465	1.00	0.00	C
ATOM	16757	HA	VAL	N	179	-8.361	-20.968-211.164	1.00	0.00	H
ATOM	16758	C	VAL	N	179	-9.816	-19.406-211.041	1.00	0.00	C
ATOM	16759	O	VAL	N	179	-10.176	-18.503-210.289	1.00	0.00	O
ATOM	16760	CB	VAL	N	179	-10.154	-21.820-210.308	1.00	0.00	C
ATOM	16761	HB	VAL	N	179	-10.971	-21.482-209.670	1.00	0.00	H
ATOM	16762	CG1	VAL	N	179	-10.755	-22.295-211.639	1.00	0.00	C
ATOM	16763	1HG1	VAL	N	179	-9.963	-22.579-212.330	1.00	0.00	H
ATOM	16764	2HG1	VAL	N	179	-11.376	-21.520-212.083	1.00	0.00	H
ATOM	16765	3HG1	VAL	N	179	-11.390	-23.161-211.472	1.00	0.00	H
ATOM	16766	CG2	VAL	N	179	-9.528	-23.063-209.652	1.00	0.00	C
ATOM	16767	1HG2	VAL	N	179	-9.219	-22.843-208.631	1.00	0.00	H
ATOM	16768	2HG2	VAL	N	179	-8.663	-23.393-210.227	1.00	0.00	H
ATOM	16769	3HG2	VAL	N	179	-10.259	-23.870-209.603	1.00	0.00	H
ATOM	16770	N	SER	N	180	-10.021	-19.330-212.358	1.00	0.00	N
ATOM	16771	H	SER	N	180	-9.644	-20.078-212.937	1.00	0.00	H
ATOM	16772	CA	SER	N	180	-10.820	-18.293-213.041	1.00	0.00	C
ATOM	16773	HA	SER	N	180	-11.644	-17.983-212.399	1.00	0.00	H
ATOM	16774	C	SER	N	180	-11.425	-18.807-214.352	1.00	0.00	C
ATOM	16775	O	SER	N	180	-11.035	-19.861-214.846	1.00	0.00	O
ATOM	16776	CB	SER	N	180	-9.946	-17.068-213.335	1.00	0.00	C
ATOM	16777	1HB	SER	N	180	-8.985	-17.379-213.747	1.00	0.00	H
ATOM	16778	2HB	SER	N	180	-10.440	-16.410-214.050	1.00	0.00	H
ATOM	16779	OG	SER	N	180	-9.761	-16.361-212.132	1.00	0.00	O
ATOM	16780	HG	SER	N	180	-9.515	-16.986-211.436	1.00	0.00	H
ATOM	16781	N	ALA	N	181	-12.385	-18.079-214.931	1.00	0.00	N
ATOM	16782	H	ALA	N	181	-12.642	-17.202-214.505	1.00	0.00	H
ATOM	16783	CA	ALA	N	181	-12.861	-18.334-216.296	1.00	0.00	C
ATOM	16784	HA	ALA	N	181	-13.170	-19.375-216.376	1.00	0.00	H
ATOM	16785	C	ALA	N	181	-11.756	-18.096-217.349	1.00	0.00	C
ATOM	16786	O	ALA	N	181	-10.761	-17.433-217.062	1.00	0.00	O
ATOM	16787	CB	ALA	N	181	-14.088	-17.450-216.554	1.00	0.00	C
ATOM	16788	1HB	ALA	N	181	-14.856	-17.654-215.807	1.00	0.00	H
ATOM	16789	2HB	ALA	N	181	-14.492	-17.658-217.545	1.00	0.00	H
ATOM	16790	3HB	ALA	N	181	-13.803	-16.397-216.501	1.00	0.00	H
ATOM	16791	N	LYS	N	182	-11.949	-18.609-218.571	1.00	0.00	N
ATOM	16792	H	LYS	N	182	-12.767	-19.185-218.738	1.00	0.00	H
ATOM	16793	CA	LYS	N	182	-11.044	-18.412-219.714	1.00	0.00	C
ATOM	16794	HA	LYS	N	182	-10.489	-17.482-219.575	1.00	0.00	H
ATOM	16795	C	LYS	N	182	-11.825	-18.252-221.015	1.00	0.00	C
ATOM	16796	O	LYS	N	182	-12.826	-18.972-221.256	1.00	0.00	O
ATOM	16797	OXT	LYS	N	182	-11.374	-17.482-221.886	1.00	0.00	O
ATOM	16798	CB	LYS	N	182	-10.042	-19.582-219.766	1.00	0.00	C
ATOM	16799	1HB	LYS	N	182	-9.657	-19.760-218.761	1.00	0.00	H
ATOM	16800	2HB	LYS	N	182	-10.570	-20.478-220.087	1.00	0.00	H
ATOM	16801	CG	LYS	N	182	-8.832	-19.329-220.685	1.00	0.00	C
ATOM	16802	1HG	LYS	N	182	-9.162	-18.924-221.641	1.00	0.00	H
ATOM	16803	2HG	LYS	N	182	-8.171	-18.607-220.203	1.00	0.00	H
ATOM	16804	CD	LYS	N	182	-8.071	-20.636-220.947	1.00	0.00	C
ATOM	16805	1HD	LYS	N	182	-7.864	-21.120-219.993	1.00	0.00	H
ATOM	16806	2HD	LYS	N	182	-8.708	-21.281-221.553	1.00	0.00	H
ATOM	16807	CE	LYS	N	182	-6.744	-20.391-221.675	1.00	0.00	C
ATOM	16808	1HE	LYS	N	182	-6.893	-19.643-222.459	1.00	0.00	H
ATOM	16809	2HE	LYS	N	182	-6.025	-19.965-220.966	1.00	0.00	H

ATOM	16810	NZ	LYS	N	182	-6.185	-21.627	-222.275	1.00	0.00	N
ATOM	16811	1HZ	LYS	N	182	-6.726	-21.960	-223.065	1.00	0.00	H
ATOM	16812	2HZ	LYS	N	182	-6.042	-22.373	-221.610	1.00	0.00	H
ATOM	16813	3HZ	LYS	N	182	-5.263	-21.426	-222.666	1.00	0.00	H
TER	16814		LYS	N	182						
ATOM	16815	O5*	A	R	1	30.159	141.720	41.289	1.00	91.73	O
ATOM	16816	*HO5	A	R	1	29.964	142.109	40.401	1.00	91.73	H
ATOM	16817	C5*	A	R	1	31.221	142.469	41.849	1.00	91.56	C
ATOM	16818	1H5*	A	R	1	31.261	142.290	42.923	1.00	91.56	H
ATOM	16819	2H5*	A	R	1	31.011	143.526	41.681	1.00	91.56	H
ATOM	16820	C4*	A	R	1	32.599	142.151	41.244	1.00	91.68	C
ATOM	16821	H4*	A	R	1	33.233	143.019	41.423	1.00	91.68	H
ATOM	16822	O4*	A	R	1	33.228	141.024	41.836	1.00	92.12	O
ATOM	16823	C3*	A	R	1	32.639	141.872	39.742	1.00	90.55	C
ATOM	16824	H3*	A	R	1	31.892	141.123	39.468	1.00	90.55	H
ATOM	16825	O3*	A	R	1	32.539	143.053	38.964	1.00	90.76	O
ATOM	16826	C2*	A	R	1	34.044	141.278	39.607	1.00	91.61	C
ATOM	16827	H2*	A	R	1	34.081	140.555	38.792	1.00	91.61	H
ATOM	16828	O2*	A	R	1	34.975	142.328	39.396	1.00	86.86	O
ATOM	16829	*HO2	A	R	1	34.462	142.994	38.908	1.00	86.86	H
ATOM	16830	C1*	A	R	1	34.306	140.651	40.984	1.00	92.83	C
ATOM	16831	H1*	A	R	1	35.228	141.089	41.371	1.00	92.83	H
ATOM	16832	N9	A	R	1	34.484	139.178	40.968	1.00	95.81	N
ATOM	16833	C8	A	R	1	33.986	138.232	40.098	1.00	96.65	C
ATOM	16834	H8	A	R	1	33.302	138.472	39.292	1.00	96.65	H
ATOM	16835	N7	A	R	1	34.406	137.013	40.332	1.00	97.81	N
ATOM	16836	C5	A	R	1	35.260	137.178	41.425	1.00	97.82	C
ATOM	16837	C6	A	R	1	36.076	136.309	42.183	1.00	99.24	C
ATOM	16838	N6	A	R	1	36.185	135.013	41.972	1.00	98.04	N
ATOM	16839	1H6	A	R	1	36.809	134.504	42.565	1.00	98.04	H
ATOM	16840	2H6	A	R	1	35.658	134.622	41.209	1.00	98.04	H
ATOM	16841	N1	A	R	1	36.828	136.750	43.190	1.00	99.23	N
ATOM	16842	C2	A	R	1	36.786	138.051	43.445	1.00	98.52	C
ATOM	16843	H2	A	R	1	37.405	138.389	44.264	1.00	98.52	H
ATOM	16844	N3	A	R	1	36.086	138.993	42.827	1.00	97.85	N
ATOM	16845	C4	A	R	1	35.322	138.487	41.815	1.00	96.98	C
ATOM	16846	P	A	R	2	31.215	143.340	38.126	1.00	91.24	P
ATOM	16847	O1P	A	R	2	31.378	144.620	37.413	1.00	87.03	O
ATOM	16848	O2P	A	R	2	30.063	143.133	39.026	1.00	90.81	O
ATOM	16849	O5*	A	R	2	31.232	142.159	37.050	1.00	85.20	O
ATOM	16850	C5*	A	R	2	32.334	141.969	36.170	1.00	85.84	C
ATOM	16851	1H5*	A	R	2	33.223	142.448	36.580	1.00	85.84	H
ATOM	16852	2H5*	A	R	2	32.123	142.440	35.210	1.00	85.84	H
ATOM	16853	C4*	A	R	2	32.655	140.473	35.958	1.00	83.39	C
ATOM	16854	H4*	A	R	2	33.719	140.385	35.736	1.00	83.39	H
ATOM	16855	O4*	A	R	2	32.333	139.712	37.125	1.00	83.34	O
ATOM	16856	C3*	A	R	2	31.875	139.828	34.809	1.00	79.81	C
ATOM	16857	H3*	A	R	2	31.709	140.527	33.989	1.00	79.81	H
ATOM	16858	O3*	A	R	2	32.575	138.672	34.378	1.00	77.59	O
ATOM	16859	C2*	A	R	2	30.572	139.478	35.523	1.00	78.63	C
ATOM	16860	H2*	A	R	2	29.988	140.392	35.622	1.00	78.63	H
ATOM	16861	O2*	A	R	2	29.800	138.474	34.877	1.00	73.78	O
ATOM	16862	*HO2	A	R	2	29.767	138.680	33.928	1.00	73.78	H
ATOM	16863	C1*	A	R	2	31.100	139.030	36.889	1.00	80.29	C
ATOM	16864	H1*	A	R	2	31.317	137.963	36.804	1.00	80.29	H
ATOM	16865	N9	A	R	2	30.141	139.238	38.005	1.00	80.86	N
ATOM	16866	C8	A	R	2	29.080	140.113	38.113	1.00	82.76	C
ATOM	16867	H8	A	R	2	28.841	140.846	37.354	1.00	82.76	H
ATOM	16868	N7	A	R	2	28.387	139.994	39.218	1.00	80.81	N
ATOM	16869	C5	A	R	2	29.076	138.990	39.906	1.00	80.47	C
ATOM	16870	C6	A	R	2	28.946	138.389	41.178	1.00	81.21	C
ATOM	16871	N6	A	R	2	28.051	138.738	42.079	1.00	82.35	N
ATOM	16872	1H6	A	R	2	28.132	138.306	42.975	1.00	82.35	H
ATOM	16873	2H6	A	R	2	27.518	139.566	41.875	1.00	82.35	H
ATOM	16874	N1	A	R	2	29.747	137.403	41.583	1.00	80.44	N
ATOM	16875	C2	A	R	2	30.701	137.027	40.741	1.00	79.93	C
ATOM	16876	H2	A	R	2	31.349	136.234	41.085	1.00	79.93	H
ATOM	16877	N3	A	R	2	30.964	137.498	39.530	1.00	78.78	N
ATOM	16878	C4	A	R	2	30.118	138.504	39.167	1.00	79.60	C
ATOM	16879	P	A	R	3	33.589	138.758	33.151	1.00	80.93	P
ATOM	16880	O1P	A	R	3	34.347	137.494	33.072	1.00	78.10	O
ATOM	16881	O2P	A	R	3	34.296	140.053	33.237	1.00	77.06	O
ATOM	16882	O5*	A	R	3	32.556	138.810	31.928	1.00	75.10	O
ATOM	16883	C5*	A	R	3	31.719	137.699	31.637	1.00	66.87	C
ATOM	16884	1H5*	A	R	3	31.535	137.128	32.548	1.00	66.87	H
ATOM	16885	2H5*	A	R	3	32.232	137.048	30.929	1.00	66.87	H
ATOM	16886	C4*	A	R	3	30.361	138.122	31.048	1.00	63.27	C

ATOM	16887	H4*	A	R	3	29.755	137.227	30.909	1.00	63.27	H
ATOM	16888	O4*	A	R	3	29.703	139.001	31.962	1.00	62.03	O
ATOM	16889	C3*	A	R	3	30.461	138.841	29.695	1.00	61.12	C
ATOM	16890	H3*	A	R	3	31.361	138.552	29.149	1.00	61.12	H
ATOM	16891	O3*	A	R	3	29.278	138.566	28.951	1.00	56.34	O
ATOM	16892	C2*	A	R	3	30.526	140.298	30.174	1.00	60.39	C
ATOM	16893	H2*	A	R	3	31.522	140.491	30.573	1.00	60.39	H
ATOM	16894	O2*	A	R	3	30.213	141.276	29.193	1.00	56.73	O
ATOM	16895	*HO2	A	R	3	30.208	140.807	28.321	1.00	56.73	H
ATOM	16896	C1*	A	R	3	29.503	140.252	31.309	1.00	58.49	C
ATOM	16897	H1*	A	R	3	28.510	140.257	30.853	1.00	58.49	H
ATOM	16898	N9	A	R	3	29.614	141.377	32.271	1.00	56.46	N
ATOM	16899	C8	A	R	3	30.519	142.412	32.299	1.00	54.63	C
ATOM	16900	H8	A	R	3	31.303	142.520	31.561	1.00	54.63	H
ATOM	16901	N7	A	R	3	30.374	143.232	33.308	1.00	57.39	N
ATOM	16902	C5	A	R	3	29.265	142.705	33.989	1.00	53.73	C
ATOM	16903	C6	A	R	3	28.552	143.037	35.170	1.00	55.84	C
ATOM	16904	N6	A	R	3	28.854	143.996	36.019	1.00	55.71	N
ATOM	16905	1H6	A	R	3	28.397	143.930	36.910	1.00	55.71	H
ATOM	16906	2H6	A	R	3	29.793	144.383	35.995	1.00	55.71	H
ATOM	16907	N1	A	R	3	27.485	142.335	35.557	1.00	60.19	N
ATOM	16908	C2	A	R	3	27.124	141.306	34.809	1.00	59.73	C
ATOM	16909	H2	A	R	3	26.262	140.752	35.153	1.00	59.73	H
ATOM	16910	N3	A	R	3	27.685	140.865	33.694	1.00	56.65	N
ATOM	16911	C4	A	R	3	28.772	141.605	33.335	1.00	54.76	C
ATOM	16912	P	A	R	4	29.222	138.771	27.363	1.00	54.92	P
ATOM	16913	O1P	A	R	4	30.252	139.784	27.041	1.00	51.24	O
ATOM	16914	O2P	A	R	4	27.814	139.029	27.009	1.00	55.58	O
ATOM	16915	O5*	A	R	4	29.676	137.342	26.761	1.00	53.19	O
ATOM	16916	C5*	A	R	4	28.747	136.504	26.074	1.00	45.21	C
ATOM	16917	1H5*	A	R	4	28.526	136.958	25.105	1.00	45.21	H
ATOM	16918	2H5*	A	R	4	27.815	136.432	26.638	1.00	45.21	H
ATOM	16919	C4*	A	R	4	29.312	135.091	25.848	1.00	46.38	C
ATOM	16920	H4*	A	R	4	30.387	135.177	25.691	1.00	46.38	H
ATOM	16921	O4*	A	R	4	29.051	134.246	26.967	1.00	46.86	O
ATOM	16922	C3*	A	R	4	28.711	134.358	24.636	1.00	43.42	C
ATOM	16923	H3*	A	R	4	27.666	134.647	24.508	1.00	43.42	H
ATOM	16924	O3*	A	R	4	29.473	134.520	23.439	1.00	45.55	O
ATOM	16925	C2*	A	R	4	28.792	132.878	25.049	1.00	45.29	C
ATOM	16926	H2*	A	R	4	27.830	132.397	24.859	1.00	45.29	H
ATOM	16927	O2*	A	R	4	29.845	132.221	24.356	1.00	42.44	O
ATOM	16928	*HO2	A	R	4	29.981	132.815	23.593	1.00	42.44	H
ATOM	16929	C1*	A	R	4	29.136	132.901	26.537	1.00	38.28	C
ATOM	16930	H1*	A	R	4	30.174	132.591	26.636	1.00	38.28	H
ATOM	16931	N9	A	R	4	28.264	131.945	27.268	1.00	34.57	N
ATOM	16932	C8	A	R	4	28.584	130.664	27.643	1.00	31.89	C
ATOM	16933	H8	A	R	4	29.597	130.299	27.604	1.00	31.89	H
ATOM	16934	N7	A	R	4	27.577	129.920	28.020	1.00	30.69	N
ATOM	16935	C5	A	R	4	26.492	130.806	27.892	1.00	27.42	C
ATOM	16936	C6	A	R	4	25.089	130.705	28.070	1.00	29.64	C
ATOM	16937	N6	A	R	4	24.443	129.599	28.386	1.00	30.64	N
ATOM	16938	1H6	A	R	4	23.439	129.645	28.379	1.00	30.64	H
ATOM	16939	2H6	A	R	4	24.957	128.741	28.426	1.00	30.64	H
ATOM	16940	N1	A	R	4	24.274	131.739	27.888	1.00	27.35	N
ATOM	16941	C2	A	R	4	24.830	132.879	27.490	1.00	35.05	C
ATOM	16942	H2	A	R	4	24.155	133.708	27.328	1.00	35.05	H
ATOM	16943	N3	A	R	4	26.114	133.129	27.267	1.00	37.14	N
ATOM	16944	C4	A	R	4	26.905	132.046	27.477	1.00	32.47	C
ATOM	16945	P	A	R	5	28.773	134.999	22.085	1.00	47.33	P
ATOM	16946	O1P	A	R	5	29.849	135.171	21.089	1.00	45.15	O
ATOM	16947	O2P	A	R	5	27.874	136.111	22.412	1.00	49.44	O
ATOM	16948	O5*	A	R	5	27.880	133.734	21.650	1.00	51.90	O
ATOM	16949	C5*	A	R	5	28.395	132.678	20.847	1.00	42.25	C
ATOM	16950	1H5*	A	R	5	28.947	131.978	21.474	1.00	42.25	H
ATOM	16951	2H5*	A	R	5	29.076	133.081	20.097	1.00	42.25	H
ATOM	16952	C4*	A	R	5	27.277	131.918	20.109	1.00	46.71	C
ATOM	16953	H4*	A	R	5	27.739	131.215	19.419	1.00	46.71	H
ATOM	16954	O4*	A	R	5	26.502	131.191	21.052	1.00	49.29	O
ATOM	16955	C3*	A	R	5	26.341	132.828	19.295	1.00	51.82	C
ATOM	16956	H3*	A	R	5	26.804	133.807	19.173	1.00	51.82	H
ATOM	16957	O3*	A	R	5	26.092	132.296	17.981	1.00	55.23	O
ATOM	16958	C2*	A	R	5	25.156	132.973	20.270	1.00	47.37	C
ATOM	16959	H2*	A	R	5	25.412	133.745	20.997	1.00	47.37	H
ATOM	16960	O2*	A	R	5	23.917	133.307	19.665	1.00	54.80	O
ATOM	16961	*HO2	A	R	5	23.745	132.630	18.967	1.00	54.80	H
ATOM	16962	C1*	A	R	5	25.146	131.611	20.970	1.00	45.71	C
ATOM	16963	H1*	A	R	5	24.574	130.899	20.369	1.00	45.71	H

ATOM	16964	N9	A	R	5	24.584	131.654	22.332	1.00	41.12	N
ATOM	16965	C8	A	R	5	25.068	132.333	23.421	1.00	45.70	C
ATOM	16966	H8	A	R	5	25.920	132.998	23.359	1.00	45.70	H
ATOM	16967	N7	A	R	5	24.438	132.072	24.536	1.00	38.84	N
ATOM	16968	C5	A	R	5	23.440	131.175	24.133	1.00	31.14	C
ATOM	16969	C6	A	R	5	22.414	130.465	24.800	1.00	31.35	C
ATOM	16970	N6	A	R	5	22.205	130.489	26.102	1.00	28.71	N
ATOM	16971	1H6	A	R	5	21.490	129.883	26.472	1.00	28.71	H
ATOM	16972	2H6	A	R	5	22.828	131.056	26.667	1.00	28.71	H
ATOM	16973	N1	A	R	5	21.570	129.675	24.140	1.00	27.20	N
ATOM	16974	C2	A	R	5	21.733	129.568	22.828	1.00	32.72	C
ATOM	16975	H2	A	R	5	21.030	128.925	22.317	1.00	32.72	H
ATOM	16976	N3	A	R	5	22.663	130.134	22.065	1.00	35.81	N
ATOM	16977	C4	A	R	5	23.499	130.938	22.786	1.00	35.96	C
ATOM	16978	P	A	R	6	25.181	131.017	17.666	1.00	45.21	P
ATOM	16979	O1P	A	R	6	23.784	131.349	17.989	1.00	44.19	O
ATOM	16980	O2P	A	R	6	25.746	129.809	18.299	1.00	50.89	O
ATOM	16981	O5*	A	R	6	25.180	130.728	16.089	1.00	53.54	O
ATOM	16982	C5*	A	R	6	26.266	130.081	15.439	1.00	38.19	C
ATOM	16983	1H5*	A	R	6	26.712	129.328	16.090	1.00	38.19	H
ATOM	16984	2H5*	A	R	6	27.030	130.821	15.196	1.00	38.19	H
ATOM	16985	C4*	A	R	6	25.810	129.389	14.143	1.00	42.47	C
ATOM	16986	H4*	A	R	6	26.669	128.864	13.721	1.00	42.47	H
ATOM	16987	O4*	A	R	6	24.764	128.440	14.386	1.00	37.77	O
ATOM	16988	C3*	A	R	6	25.299	130.367	13.075	1.00	41.21	C
ATOM	16989	H3*	A	R	6	25.470	131.409	13.354	1.00	41.21	H
ATOM	16990	O3*	A	R	6	25.918	130.030	11.844	1.00	35.62	O
ATOM	16991	C2*	A	R	6	23.804	130.021	13.043	1.00	40.07	C
ATOM	16992	H2*	A	R	6	23.311	130.489	13.897	1.00	40.07	H
ATOM	16993	O2*	A	R	6	23.156	130.404	11.838	1.00	46.88	O
ATOM	16994	*HO2	A	R	6	23.776	130.988	11.332	1.00	46.88	H
ATOM	16995	C1*	A	R	6	23.890	128.507	13.264	1.00	37.36	C
ATOM	16996	H1*	A	R	6	24.392	128.076	12.390	1.00	37.36	H
ATOM	16997	N9	A	R	6	22.564	127.830	13.404	1.00	38.10	N
ATOM	16998	C8	A	R	6	21.500	127.945	12.534	1.00	37.40	C
ATOM	16999	H8	A	R	6	21.484	128.664	11.725	1.00	37.40	H
ATOM	17000	N7	A	R	6	20.518	127.110	12.744	1.00	40.51	N
ATOM	17001	C5	A	R	6	20.981	126.353	13.821	1.00	35.50	C
ATOM	17002	C6	A	R	6	20.473	125.235	14.523	1.00	37.32	C
ATOM	17003	N6	A	R	6	19.364	124.584	14.231	1.00	33.04	N
ATOM	17004	1H6	A	R	6	19.293	123.682	14.678	1.00	33.04	H
ATOM	17005	2H6	A	R	6	18.972	124.765	13.319	1.00	33.04	H
ATOM	17006	N1	A	R	6	21.118	124.707	15.552	1.00	30.30	N
ATOM	17007	C2	A	R	6	22.285	125.236	15.871	1.00	36.94	C
ATOM	17008	H2	A	R	6	22.780	124.791	16.720	1.00	36.94	H
ATOM	17009	N3	A	R	6	22.902	126.276	15.314	1.00	38.70	N
ATOM	17010	C4	A	R	6	22.205	126.794	14.256	1.00	38.91	C
ATOM	17011	P	A	R	7	26.200	131.154	10.756	1.00	45.07	P
ATOM	17012	O1P	A	R	7	27.414	131.875	11.173	1.00	41.06	O
ATOM	17013	O2P	A	R	7	24.924	131.881	10.582	1.00	43.44	O
ATOM	17014	O5*	A	R	7	26.504	130.314	9.426	1.00	41.78	O
ATOM	17015	C5*	A	R	7	25.448	129.877	8.584	1.00	33.45	C
ATOM	17016	1H5*	A	R	7	24.997	130.752	8.114	1.00	33.45	H
ATOM	17017	2H5*	A	R	7	24.682	129.389	9.189	1.00	33.45	H
ATOM	17018	C4*	A	R	7	25.895	128.908	7.475	1.00	33.17	C
ATOM	17019	H4*	A	R	7	25.041	128.750	6.815	1.00	33.17	H
ATOM	17020	O4*	A	R	7	26.977	129.445	6.713	1.00	34.17	O
ATOM	17021	C3*	A	R	7	26.333	127.540	8.005	1.00	36.53	C
ATOM	17022	H3*	A	R	7	25.870	127.330	8.971	1.00	36.53	H
ATOM	17023	O3*	A	R	7	25.959	126.579	7.023	1.00	34.16	O
ATOM	17024	C2*	A	R	7	27.844	127.755	8.156	1.00	38.36	C
ATOM	17025	H2*	A	R	7	28.028	128.307	9.079	1.00	38.36	H
ATOM	17026	O2*	A	R	7	28.657	126.588	8.129	1.00	38.34	O
ATOM	17027	*HO2	A	R	7	28.114	125.810	7.848	1.00	38.34	H
ATOM	17028	C1*	A	R	7	28.131	128.650	6.957	1.00	32.44	C
ATOM	17029	H1*	A	R	7	28.287	127.981	6.111	1.00	32.44	H
ATOM	17030	N9	A	R	7	29.337	129.489	7.144	1.00	34.98	N
ATOM	17031	C8	A	R	7	29.581	130.470	8.080	1.00	32.95	C
ATOM	17032	H8	A	R	7	28.848	130.766	8.822	1.00	32.95	H
ATOM	17033	N7	A	R	7	30.769	131.023	7.984	1.00	35.41	N
ATOM	17034	C5	A	R	7	31.349	130.324	6.917	1.00	32.51	C
ATOM	17035	C6	A	R	7	32.603	130.366	6.267	1.00	38.64	C
ATOM	17036	N6	A	R	7	33.589	131.175	6.601	1.00	37.87	N
ATOM	17037	1H6	A	R	7	34.442	131.075	6.089	1.00	37.87	H
ATOM	17038	2H6	A	R	7	33.436	131.781	7.387	1.00	37.87	H
ATOM	17039	N1	A	R	7	32.905	129.566	5.246	1.00	41.29	N
ATOM	17040	C2	A	R	7	31.966	128.707	4.872	1.00	35.13	C

ATOM	17041	H2	A	R	7	32.221	128.062	4.044	1.00	35.13	H
ATOM	17042	N3	A	R	7	30.753	128.534	5.379	1.00	34.65	N
ATOM	17043	C4	A	R	7	30.494	129.387	6.409	1.00	34.12	C
ATOM	17044	P	A	R	8	25.878	125.042	7.416	1.00	43.49	P
ATOM	17045	O1P	A	R	8	25.204	124.984	8.724	1.00	37.32	O
ATOM	17046	O2P	A	R	8	27.255	124.530	7.286	1.00	37.37	O
ATOM	17047	O5*	A	R	8	24.937	124.313	6.332	1.00	44.00	O
ATOM	17048	C5*	A	R	8	24.216	123.161	6.752	1.00	40.52	C
ATOM	17049	1H5*	A	R	8	23.441	123.474	7.453	1.00	40.52	H
ATOM	17050	2H5*	A	R	8	24.899	122.509	7.300	1.00	40.52	H
ATOM	17051	C4*	A	R	8	23.572	122.318	5.641	1.00	43.37	C
ATOM	17052	H4*	A	R	8	24.345	121.985	4.947	1.00	43.37	H
ATOM	17053	O4*	A	R	8	22.985	121.194	6.298	1.00	42.04	O
ATOM	17054	C3*	A	R	8	22.439	123.005	4.860	1.00	46.42	C
ATOM	17055	H3*	A	R	8	22.584	124.083	4.780	1.00	46.42	H
ATOM	17056	O3*	A	R	8	22.378	122.365	3.593	1.00	56.99	O
ATOM	17057	C2*	A	R	8	21.260	122.635	5.769	1.00	45.41	C
ATOM	17058	H2*	A	R	8	21.360	123.173	6.713	1.00	45.41	H
ATOM	17059	O2*	A	R	8	19.961	122.883	5.251	1.00	44.28	O
ATOM	17060	*HO2	A	R	8	20.013	122.930	4.260	1.00	44.28	H
ATOM	17061	C1*	A	R	8	21.593	121.161	6.008	1.00	42.33	C
ATOM	17062	H1*	A	R	8	21.444	120.608	5.078	1.00	42.33	H
ATOM	17063	N9	A	R	8	20.791	120.522	7.085	1.00	35.27	N
ATOM	17064	C8	A	R	8	19.620	120.962	7.661	1.00	37.36	C
ATOM	17065	H8	A	R	8	19.164	121.904	7.389	1.00	37.36	H
ATOM	17066	N7	A	R	8	19.117	120.168	8.574	1.00	33.55	N
ATOM	17067	C5	A	R	8	20.005	119.081	8.544	1.00	26.54	C
ATOM	17068	C6	A	R	8	20.076	117.836	9.213	1.00	24.62	C
ATOM	17069	N6	A	R	8	19.241	117.425	10.147	1.00	22.16	N
ATOM	17070	1H6	A	R	8	19.434	116.518	10.530	1.00	22.16	H
ATOM	17071	2H6	A	R	8	18.495	118.031	10.425	1.00	22.16	H
ATOM	17072	N1	A	R	8	21.022	116.944	8.949	1.00	22.57	N
ATOM	17073	C2	A	R	8	21.901	117.257	8.008	1.00	23.37	C
ATOM	17074	H2	A	R	8	22.654	116.512	7.796	1.00	23.37	H
ATOM	17075	N3	A	R	8	21.986	118.384	7.314	1.00	33.75	N
ATOM	17076	C4	A	R	8	21.001	119.271	7.623	1.00	29.46	C
ATOM	17077	P	A	R	10	21.629	123.000	2.342	1.00	47.33	P
ATOM	17078	O1P	A	R	10	22.389	124.195	1.934	1.00	45.15	O
ATOM	17079	O2P	A	R	10	20.207	123.119	2.710	1.00	49.44	O
ATOM	17080	O5*	A	R	10	21.787	121.852	1.240	1.00	51.90	O
ATOM	17081	C5*	A	R	10	23.072	121.391	0.850	1.00	42.25	C
ATOM	17082	1H5*	A	R	10	23.845	121.901	1.427	1.00	42.25	H
ATOM	17083	2H5*	A	R	10	23.232	121.627	-0.202	1.00	42.25	H
ATOM	17084	C4*	A	R	10	23.228	119.875	1.064	1.00	46.71	C
ATOM	17085	H4*	A	R	10	24.289	119.639	1.012	1.00	46.71	H
ATOM	17086	O4*	A	R	10	22.704	119.483	2.333	1.00	49.29	O
ATOM	17087	C3*	A	R	10	22.510	119.017	0.022	1.00	51.82	C
ATOM	17088	H3*	A	R	10	22.429	119.514	-0.947	1.00	51.82	H
ATOM	17089	O3*	A	R	10	23.175	117.765	-0.044	1.00	55.23	O
ATOM	17090	C2*	A	R	10	21.151	118.788	0.680	1.00	47.37	C
ATOM	17091	H2*	A	R	10	20.544	119.693	0.620	1.00	47.37	H
ATOM	17092	O2*	A	R	10	20.476	117.669	0.116	1.00	54.80	O
ATOM	17093	*HO2	A	R	10	20.972	117.423	-0.682	1.00	54.80	H
ATOM	17094	C1*	A	R	10	21.642	118.554	2.109	1.00	45.71	C
ATOM	17095	H1*	A	R	10	22.050	117.540	2.150	1.00	45.71	H
ATOM	17096	N9	A	R	10	20.581	118.654	3.127	1.00	41.12	N
ATOM	17097	C8	A	R	10	19.748	119.708	3.422	1.00	45.70	C
ATOM	17098	H8	A	R	10	19.793	120.652	2.892	1.00	45.70	H
ATOM	17099	N7	A	R	10	18.942	119.486	4.432	1.00	38.84	N
ATOM	17100	C5	A	R	10	19.244	118.162	4.786	1.00	31.14	C
ATOM	17101	C6	A	R	10	18.774	117.258	5.765	1.00	31.35	C
ATOM	17102	N6	A	R	10	17.879	117.539	6.689	1.00	28.71	N
ATOM	17103	1H6	A	R	10	17.703	116.811	7.352	1.00	28.71	H
ATOM	17104	2H6	A	R	10	17.575	118.494	6.769	1.00	28.71	H
ATOM	17105	N1	A	R	10	19.234	116.014	5.860	1.00	27.20	N
ATOM	17106	C2	A	R	10	20.173	115.648	4.996	1.00	32.72	C
ATOM	17107	H2	A	R	10	20.538	114.635	5.093	1.00	32.72	H
ATOM	17108	N3	A	R	10	20.720	116.372	4.026	1.00	35.81	N
ATOM	17109	C4	A	R	10	20.215	117.639	3.979	1.00	35.96	C
ATOM	17110	P	A	R	11	23.573	117.118	-1.419	1.00	45.21	P
ATOM	17111	O1P	A	R	11	24.090	115.767	-1.135	1.00	44.19	O
ATOM	17112	O2P	A	R	11	24.369	118.105	-2.163	1.00	50.89	O
ATOM	17113	O5*	A	R	11	22.130	116.932	-2.114	1.00	53.54	O
ATOM	17114	C5*	A	R	11	22.044	116.869	-3.535	1.00	38.19	C
ATOM	17115	1H5*	A	R	11	22.949	116.399	-3.926	1.00	38.19	H
ATOM	17116	2H5*	A	R	11	22.002	117.883	-3.936	1.00	38.19	H
ATOM	17117	C4*	A	R	11	20.840	116.074	-4.067	1.00	42.47	C



ATOM	17118	H4*	A	R	11	21.048	115.849	-5.116	1.00	42.47	H
ATOM	17119	O4*	A	R	11	20.706	114.842	-3.372	1.00	37.77	O
ATOM	17120	C3*	A	R	11	19.467	116.770	-4.019	1.00	41.21	C
ATOM	17121	H3*	A	R	11	19.539	117.809	-3.694	1.00	41.21	H
ATOM	17122	O3*	A	R	11	18.920	116.643	-5.321	1.00	35.62	O
ATOM	17123	C2*	A	R	11	18.715	115.891	-3.004	1.00	40.07	C
ATOM	17124	H2*	A	R	11	19.017	116.182	-1.997	1.00	40.07	H
ATOM	17125	O2*	A	R	11	17.296	115.892	-3.092	1.00	46.88	O
ATOM	17126	*HO2	A	R	11	17.013	116.413	-3.889	1.00	46.88	H
ATOM	17127	C1*	A	R	11	19.323	114.532	-3.342	1.00	37.36	C
ATOM	17128	H1*	A	R	11	18.986	114.234	-4.341	1.00	37.36	H
ATOM	17129	N9	A	R	11	19.010	113.446	-2.376	1.00	38.10	N
ATOM	17130	C8	A	R	11	17.935	113.328	-1.524	1.00	37.40	C
ATOM	17131	H8	A	R	11	17.174	114.091	-1.430	1.00	37.40	H
ATOM	17132	N7	A	R	11	17.928	112.231	-0.813	1.00	40.51	N
ATOM	17133	C5	A	R	11	19.053	111.537	-1.279	1.00	35.50	C
ATOM	17134	C6	A	R	11	19.674	110.298	-0.981	1.00	37.32	C
ATOM	17135	N6	A	R	11	19.337	109.468	-0.026	1.00	33.04	N
ATOM	17136	1H6	A	R	11	20.007	108.723	0.120	1.00	33.04	H
ATOM	17137	2H6	A	R	11	18.743	109.828	0.727	1.00	33.04	H
ATOM	17138	N1	A	R	11	20.782	109.904	-1.597	1.00	30.30	N
ATOM	17139	C2	A	R	11	21.300	110.712	-2.504	1.00	36.94	C
ATOM	17140	H2	A	R	11	22.193	110.361	-2.993	1.00	36.94	H
ATOM	17141	N3	A	R	11	20.879	111.924	-2.842	1.00	38.70	N
ATOM	17142	C4	A	R	11	19.714	112.270	-2.226	1.00	38.91	C
ATOM	17143	P	A	R	12	17.810	117.647	-5.849	1.00	45.07	P
ATOM	17144	O1P	A	R	12	18.359	119.009	-5.740	1.00	41.06	O
ATOM	17145	O2P	A	R	12	16.557	117.292	-5.152	1.00	43.44	O
ATOM	17146	O5*	A	R	12	17.701	117.256	-7.394	1.00	41.78	O
ATOM	17147	C5*	A	R	12	16.987	116.110	-7.828	1.00	33.45	C
ATOM	17148	1H5*	A	R	12	15.919	116.310	-7.741	1.00	33.45	H
ATOM	17149	2H5*	A	R	12	17.230	115.260	-7.188	1.00	33.45	H
ATOM	17150	C4*	A	R	12	17.304	115.743	-9.292	1.00	33.17	C
ATOM	17151	H4*	A	R	12	16.618	114.955	-9.599	1.00	33.17	H
ATOM	17152	O4*	A	R	12	17.137	116.879	-10.142	1.00	34.17	O
ATOM	17153	C3*	A	R	12	18.733	115.223	-9.480	1.00	36.53	C
ATOM	17154	H3*	A	R	12	19.116	114.788	-8.554	1.00	36.53	H
ATOM	17155	O3*	A	R	12	18.742	114.269	-10.535	1.00	34.16	O
ATOM	17156	C2*	A	R	12	19.479	116.518	-9.822	1.00	38.36	C
ATOM	17157	H2*	A	R	12	19.707	117.045	-8.895	1.00	38.36	H
ATOM	17158	O2*	A	R	12	20.664	116.348	-10.586	1.00	38.34	O
ATOM	17159	*HO2	A	R	12	20.904	115.383	-10.559	1.00	38.34	H
ATOM	17160	C1*	A	R	12	18.419	117.276	-10.617	1.00	32.44	C
ATOM	17161	H1*	A	R	12	18.517	116.946	-11.652	1.00	32.44	H
ATOM	17162	N9	A	R	12	18.606	118.746	-10.556	1.00	34.98	N
ATOM	17163	C8	A	R	12	18.692	119.579	-9.460	1.00	32.95	C
ATOM	17164	H8	A	R	12	18.566	119.228	-8.443	1.00	32.95	H
ATOM	17165	N7	A	R	12	18.933	120.837	-9.754	1.00	35.41	N
ATOM	17166	C5	A	R	12	19.032	120.813	-11.149	1.00	32.51	C
ATOM	17167	C6	A	R	12	19.308	121.782	-12.139	1.00	38.64	C
ATOM	17168	N6	A	R	12	19.555	123.052	-11.889	1.00	37.87	N
ATOM	17169	1H6	A	R	12	19.775	123.627	-12.675	1.00	37.87	H
ATOM	17170	2H6	A	R	12	19.567	123.330	-10.923	1.00	37.87	H
ATOM	17171	N1	A	R	12	19.357	121.483	-13.436	1.00	41.29	N
ATOM	17172	C2	A	R	12	19.135	120.214	-13.760	1.00	35.13	C
ATOM	17173	H2	A	R	12	19.189	119.979	-14.813	1.00	35.13	H
ATOM	17174	N3	A	R	12	18.877	119.193	-12.956	1.00	34.65	N
ATOM	17175	C4	A	R	12	18.836	119.554	-11.644	1.00	34.12	C
ATOM	17176	P	A	R	13	19.830	113.104	-10.500	1.00	43.49	P
ATOM	17177	O1P	A	R	13	19.481	112.238	-9.358	1.00	37.32	O
ATOM	17178	O2P	A	R	13	21.130	113.806	-10.527	1.00	37.37	O
ATOM	17179	O5*	A	R	13	19.649	112.289	-11.871	1.00	44.00	O
ATOM	17180	C5*	A	R	13	18.656	111.288	-12.019	1.00	40.52	C
ATOM	17181	1H5*	A	R	13	17.741	111.755	-12.381	1.00	40.52	H
ATOM	17182	2H5*	A	R	13	18.443	110.837	-11.051	1.00	40.52	H
ATOM	17183	C4*	A	R	13	19.094	110.187	-13.010	1.00	43.37	C
ATOM	17184	H4*	A	R	13	19.510	110.655	-13.903	1.00	43.37	H
ATOM	17185	O4*	A	R	13	20.059	109.329	-12.397	1.00	42.04	O
ATOM	17186	C3*	A	R	13	17.920	109.260	-13.377	1.00	46.42	C
ATOM	17187	H3*	A	R	13	16.981	109.801	-13.503	1.00	46.42	H
ATOM	17188	O3*	A	R	13	18.229	108.470	-14.513	1.00	56.99	O
ATOM	17189	C2*	A	R	13	17.916	108.367	-12.127	1.00	45.41	C
ATOM	17190	H2*	A	R	13	17.553	108.930	-11.268	1.00	45.41	H
ATOM	17191	O2*	A	R	13	17.155	107.175	-12.245	1.00	44.28	O
ATOM	17192	*HO2	A	R	13	17.438	106.693	-13.048	1.00	44.28	H
ATOM	17193	C1*	A	R	13	19.420	108.125	-11.996	1.00	42.33	C
ATOM	17194	H1*	A	R	13	19.682	107.329	-12.701	1.00	42.33	H

ATOM	17195	N9	A	R	13	19.881	107.744	-10.644	1.00	35.27	N
ATOM	17196	C8	A	R	13	19.820	108.440	-9.457	1.00	37.36	C
ATOM	17197	H8	A	R	13	19.374	109.426	-9.378	1.00	37.36	H
ATOM	17198	N7	A	R	13	20.363	107.816	-8.439	1.00	33.55	N
ATOM	17199	C5	A	R	13	20.858	106.638	-9.023	1.00	26.54	C
ATOM	17200	C6	A	R	13	21.603	105.524	-8.568	1.00	24.62	C
ATOM	17201	N6	A	R	13	22.022	105.348	-7.331	1.00	22.16	N
ATOM	17202	1H6	A	R	13	22.567	104.523	-7.162	1.00	22.16	H
ATOM	17203	2H6	A	R	13	21.817	106.057	-6.653	1.00	22.16	H
ATOM	17204	N1	A	R	13	21.972	104.541	-9.384	1.00	22.57	N
ATOM	17205	C2	A	R	13	21.606	104.634	-10.658	1.00	23.37	C
ATOM	17206	H2	A	R	13	21.914	103.826	-11.307	1.00	23.37	H
ATOM	17207	N3	A	R	13	20.893	105.600	-11.226	1.00	33.75	N
ATOM	17208	C4	A	R	13	20.559	106.587	-10.355	1.00	29.46	C
ATOM	17209	F	A	R	15	18.068	108.993	-16.012	1.00	47.33	F
ATOM	17210	O1P	A	R	15	18.477	110.412	-16.084	1.00	45.15	O
ATOM	17211	O2P	A	R	15	16.728	108.613	-16.488	1.00	49.44	O
ATOM	17212	O5*	A	R	15	19.159	108.064	-16.724	1.00	51.90	O
ATOM	17213	C5*	A	R	15	19.393	108.078	-18.124	1.00	42.25	C
ATOM	17214	1H5*	A	R	15	20.133	108.842	-18.343	1.00	42.25	H
ATOM	17215	2H5*	A	R	15	18.476	108.356	-18.638	1.00	42.25	H
ATOM	17216	C4*	A	R	15	19.923	106.735	-18.685	1.00	46.71	C
ATOM	17217	H4*	A	R	15	20.750	106.946	-19.365	1.00	46.71	H
ATOM	17218	O4*	A	R	15	20.390	105.886	-17.637	1.00	49.29	O
ATOM	17219	C3*	A	R	15	18.835	105.977	-19.465	1.00	51.82	C
ATOM	17220	H3*	A	R	15	18.041	106.671	-19.736	1.00	51.82	H
ATOM	17221	O3*	A	R	15	19.294	105.434	-20.711	1.00	55.23	O
ATOM	17222	C2*	A	R	15	18.271	105.071	-18.362	1.00	47.37	C
ATOM	17223	H2*	A	R	15	17.529	105.670	-17.834	1.00	47.37	H
ATOM	17224	O2*	A	R	15	17.635	103.880	-18.789	1.00	54.80	O
ATOM	17225	*HO2	A	R	15	18.138	103.523	-19.546	1.00	54.80	H
ATOM	17226	C1*	A	R	15	19.464	104.827	-17.430	1.00	45.71	C
ATOM	17227	H1*	A	R	15	19.952	103.896	-17.720	1.00	45.71	H
ATOM	17228	N9	A	R	15	19.066	104.742	-16.002	1.00	41.12	N
ATOM	17229	C8	A	R	15	18.108	105.467	-15.329	1.00	45.70	C
ATOM	17230	H8	A	R	15	17.533	106.252	-15.800	1.00	45.70	H
ATOM	17231	N7	A	R	15	17.952	105.141	-14.072	1.00	38.84	N
ATOM	17232	C5	A	R	15	18.873	104.097	-13.916	1.00	31.14	C
ATOM	17233	C6	A	R	15	19.230	103.249	-12.844	1.00	31.35	C
ATOM	17234	N6	A	R	15	18.703	103.296	-11.637	1.00	28.71	N
ATOM	17235	1H6	A	R	15	19.107	102.680	-10.960	1.00	28.71	H
ATOM	17236	2H6	A	R	15	18.087	104.063	-11.432	1.00	28.71	H
ATOM	17237	N1	A	R	15	20.156	102.306	-12.973	1.00	27.20	N
ATOM	17238	C2	A	R	15	20.730	102.179	-14.161	1.00	32.72	C
ATOM	17239	H2	A	R	15	21.485	101.411	-14.232	1.00	32.72	H
ATOM	17240	N3	A	R	15	20.490	102.869	-15.273	1.00	35.81	N
ATOM	17241	C4	A	R	15	19.546	103.838	-15.081	1.00	35.96	C
ATOM	17242	F	A	R	16	20.170	104.106	-20.925	1.00	45.21	F
ATOM	17243	O1P	A	R	16	21.092	103.896	-19.799	1.00	44.19	O
ATOM	17244	O2P	A	R	16	20.698	104.060	-22.298	1.00	50.89	O
ATOM	17245	O5*	A	R	16	19.072	102.940	-20.794	1.00	53.54	O
ATOM	17246	C5*	A	R	16	18.100	102.715	-21.815	1.00	38.19	C
ATOM	17247	1H5*	A	R	16	18.400	103.218	-22.736	1.00	38.19	H
ATOM	17248	2H5*	A	R	16	17.146	103.148	-21.512	1.00	38.19	H
ATOM	17249	C4*	A	R	16	17.911	101.220	-22.134	1.00	42.47	C
ATOM	17250	H4*	A	R	16	17.962	101.112	-23.216	1.00	42.47	H
ATOM	17251	O4*	A	R	16	18.943	100.425	-21.550	1.00	37.77	O
ATOM	17252	C3*	A	R	16	16.573	100.597	-21.696	1.00	41.21	C
ATOM	17253	H3*	A	R	16	15.831	101.338	-21.393	1.00	41.21	H
ATOM	17254	O3*	A	R	16	16.144	99.809	-22.788	1.00	35.62	O
ATOM	17255	C2*	A	R	16	17.029	99.699	-20.540	1.00	40.07	C
ATOM	17256	H2*	A	R	16	17.235	100.319	-19.666	1.00	40.07	H
ATOM	17257	O2*	A	R	16	16.135	98.652	-20.188	1.00	46.88	O
ATOM	17258	*HO2	A	R	16	15.390	98.629	-20.844	1.00	46.88	H
ATOM	17259	C1*	A	R	16	18.346	99.207	-21.140	1.00	37.36	C
ATOM	17260	H1*	A	R	16	18.127	98.583	-22.014	1.00	37.36	H
ATOM	17261	N9	A	R	16	19.229	98.456	-20.218	1.00	38.10	N
ATOM	17262	C8	A	R	16	18.908	97.800	-19.053	1.00	37.40	C
ATOM	17263	H8	A	R	16	17.904	97.784	-18.647	1.00	37.40	H
ATOM	17264	N7	A	R	16	19.926	97.235	-18.458	1.00	40.51	N
ATOM	17265	C5	A	R	16	20.985	97.466	-19.348	1.00	35.50	C
ATOM	17266	C6	A	R	16	22.365	97.153	-19.376	1.00	37.32	C
ATOM	17267	N6	A	R	16	23.040	96.581	-18.409	1.00	33.04	N
ATOM	17268	1H6	A	R	16	24.042	96.552	-18.548	1.00	33.04	H
ATOM	17269	2H6	A	R	16	22.629	96.546	-17.472	1.00	33.04	H
ATOM	17270	N1	A	R	16	23.151	97.536	-20.377	1.00	30.30	N
ATOM	17271	C2	A	R	16	22.601	98.226	-21.363	1.00	36.94	C

ATOM	17272	H2	A	R	16	23.254	98.518	-22.171	1.00	36.94	H
ATOM	17273	N3	A	R	16	21.349	98.657	-21.441	1.00	38.70	N
ATOM	17274	C4	A	R	16	20.568	98.201	-20.422	1.00	38.91	C
ATOM	17275	P	A	R	17	14.611	99.498	-23.060	1.00	45.07	P
ATOM	17276	O1P	A	R	17	13.961	100.766	-23.438	1.00	41.06	O
ATOM	17277	O2P	A	R	17	14.139	98.736	-21.887	1.00	43.44	O
ATOM	17278	O5*	A	R	17	14.735	98.542	-24.343	1.00	41.78	O
ATOM	17279	C5*	A	R	17	15.491	98.985	-25.456	1.00	33.45	C
ATOM	17280	1H5*	A	R	17	16.521	99.105	-25.128	1.00	33.45	H
ATOM	17281	2H5*	A	R	17	15.131	99.965	-25.772	1.00	33.45	H
ATOM	17282	C4*	A	R	17	15.479	98.043	-26.668	1.00	33.17	C
ATOM	17283	H4*	A	R	17	14.500	98.082	-27.129	1.00	33.17	H
ATOM	17284	O4*	A	R	17	16.472	98.486	-27.586	1.00	34.17	O
ATOM	17285	C3*	A	R	17	15.825	96.580	-26.391	1.00	36.53	C
ATOM	17286	H3*	A	R	17	15.409	96.245	-25.438	1.00	36.53	H
ATOM	17287	O3*	A	R	17	15.327	95.819	-27.477	1.00	34.16	O
ATOM	17288	C2*	A	R	17	17.354	96.665	-26.343	1.00	38.36	C
ATOM	17289	H2*	A	R	17	17.627	96.957	-25.327	1.00	38.36	H
ATOM	17290	O2*	A	R	17	18.066	95.487	-26.691	1.00	38.34	O
ATOM	17291	*HO2	A	R	17	17.417	94.750	-26.834	1.00	38.34	H
ATOM	17292	C1*	A	R	17	17.693	97.799	-27.320	1.00	32.44	C
ATOM	17293	H1*	A	R	17	18.048	97.346	-28.249	1.00	32.44	H
ATOM	17294	N9	A	R	17	18.777	98.627	-26.717	1.00	34.98	N
ATOM	17295	C8	A	R	17	19.965	98.152	-26.210	1.00	32.95	C
ATOM	17296	H8	A	R	17	20.282	97.125	-26.347	1.00	32.95	H
ATOM	17297	N7	A	R	17	20.637	99.015	-25.495	1.00	35.41	N
ATOM	17298	C5	A	R	17	19.845	100.166	-25.569	1.00	32.51	C
ATOM	17299	C6	A	R	17	19.916	101.453	-24.986	1.00	38.64	C
ATOM	17300	N6	A	R	17	20.837	101.837	-24.125	1.00	37.87	N
ATOM	17301	1H6	A	R	17	20.696	102.719	-23.629	1.00	37.87	H
ATOM	17302	2H6	A	R	17	21.493	101.143	-23.808	1.00	37.87	H
ATOM	17303	N1	A	R	17	18.997	102.381	-25.238	1.00	41.29	N
ATOM	17304	C2	A	R	17	18.005	102.059	-26.053	1.00	35.13	C
ATOM	17305	H2	A	R	17	17.269	102.828	-26.231	1.00	35.13	H
ATOM	17306	N3	A	R	17	17.791	100.897	-26.651	1.00	34.65	N
ATOM	17307	C4	A	R	17	18.745	99.965	-26.362	1.00	34.12	C
ATOM	17308	P	A	R	18	15.013	94.275	-27.291	1.00	43.49	P
ATOM	17309	O1P	A	R	18	13.916	94.174	-26.310	1.00	37.32	O
ATOM	17310	O2P	A	R	18	16.305	93.612	-27.036	1.00	37.37	O
ATOM	17311	O5*	A	R	18	14.484	93.861	-28.731	1.00	44.00	O
ATOM	17312	C5*	A	R	18	13.245	94.308	-29.246	1.00	40.52	C
ATOM	17313	1H5*	A	R	18	13.328	95.363	-29.504	1.00	40.52	H
ATOM	17314	2H5*	A	R	18	12.459	94.169	-28.506	1.00	40.52	H
ATOM	17315	C4*	A	R	18	12.948	93.482	-30.505	1.00	43.37	C
ATOM	17316	H4*	A	R	18	13.891	93.356	-31.034	1.00	43.37	H
ATOM	17317	O4*	A	R	18	12.428	92.211	-30.132	1.00	42.04	O
ATOM	17318	C3*	A	R	18	11.930	94.108	-31.469	1.00	46.42	C
ATOM	17319	H3*	A	R	18	11.913	95.192	-31.352	1.00	46.42	H
ATOM	17320	O3*	A	R	18	12.322	93.768	-32.796	1.00	56.99	O
ATOM	17321	C2*	A	R	18	10.604	93.477	-30.977	1.00	45.41	C
ATOM	17322	H2*	A	R	18	10.135	94.186	-30.295	1.00	45.41	H
ATOM	17323	O2*	A	R	18	9.676	93.123	-31.990	1.00	44.28	O
ATOM	17324	*HO2	A	R	18	10.121	93.364	-32.844	1.00	44.28	H
ATOM	17325	C1*	A	R	18	11.018	92.206	-30.231	1.00	42.33	C
ATOM	17326	H1*	A	R	18	10.745	91.336	-30.834	1.00	42.33	H
ATOM	17327	N9	A	R	18	10.374	92.064	-28.900	1.00	35.27	N
ATOM	17328	C8	A	R	18	10.033	93.033	-27.985	1.00	37.36	C
ATOM	17329	H8	A	R	18	10.232	94.083	-28.145	1.00	37.36	H
ATOM	17330	N7	A	R	18	9.463	92.586	-26.895	1.00	33.55	N
ATOM	17331	C5	A	R	18	9.387	91.210	-27.134	1.00	26.54	C
ATOM	17332	C6	A	R	18	8.855	90.111	-26.424	1.00	24.62	C
ATOM	17333	N6	A	R	18	8.259	90.197	-25.251	1.00	22.16	N
ATOM	17334	1H6	A	R	18	7.933	89.340	-24.854	1.00	22.16	H
ATOM	17335	2H6	A	R	18	8.162	91.110	-24.837	1.00	22.16	H
ATOM	17336	N1	A	R	18	8.883	88.875	-26.914	1.00	22.57	N
ATOM	17337	C2	A	R	18	9.431	88.715	-28.114	1.00	23.37	C
ATOM	17338	H2	A	R	18	9.439	87.706	-28.501	1.00	23.37	H
ATOM	17339	N3	A	R	18	9.943	89.643	-28.913	1.00	33.75	N
ATOM	17340	C4	A	R	18	9.915	90.885	-28.354	1.00	29.46	C
ATOM	17341	P	A	R	20	11.756	94.528	-34.075	1.00	47.33	P
ATOM	17342	O1P	A	R	20	11.864	95.991	-33.876	1.00	45.15	O
ATOM	17343	O2P	A	R	20	10.418	93.945	-34.283	1.00	49.44	O
ATOM	17344	O5*	A	R	20	12.620	94.066	-35.321	1.00	51.90	O
ATOM	17345	C5*	A	R	20	13.842	94.681	-35.689	1.00	42.25	C
ATOM	17346	1H5*	A	R	20	14.143	95.387	-34.916	1.00	42.25	H
ATOM	17347	2H5*	A	R	20	13.672	95.244	-36.606	1.00	42.25	H
ATOM	17348	C4*	A	R	20	14.988	93.680	-35.941	1.00	46.71	C

ATOM	17349	H4*	A	R	20	15.659	94.113	-36.685	1.00	46.71	H
ATOM	17350	O4*	A	R	20	15.722	93.514	-34.740	1.00	49.29	O
ATOM	17351	C3*	A	R	20	14.570	92.282	-36.435	1.00	51.82	C
ATOM	17352	H3*	A	R	20	13.492	92.175	-36.360	1.00	51.82	H
ATOM	17353	O3*	A	R	20	14.877	92.106	-37.816	1.00	55.23	O
ATOM	17354	C2*	A	R	20	15.154	91.334	-35.367	1.00	47.37	C
ATOM	17355	H2*	A	R	20	14.348	91.123	-34.665	1.00	47.37	H
ATOM	17356	O2*	A	R	20	15.682	90.101	-35.815	1.00	54.80	O
ATOM	17357	*HO2	A	R	20	15.857	90.162	-36.771	1.00	54.80	H
ATOM	17358	C1*	A	R	20	16.209	92.188	-34.666	1.00	45.71	C
ATOM	17359	H1*	A	R	20	17.158	92.103	-35.202	1.00	45.71	H
ATOM	17360	N9	A	R	20	16.402	91.897	-33.225	1.00	41.12	N
ATOM	17361	C8	A	R	20	15.459	91.585	-32.275	1.00	45.70	C
ATOM	17362	H8	A	R	20	14.437	91.329	-32.519	1.00	45.70	H
ATOM	17363	N7	A	R	20	15.874	91.710	-31.044	1.00	38.84	N
ATOM	17364	C5	A	R	20	17.215	92.084	-31.193	1.00	31.14	C
ATOM	17365	C6	A	R	20	18.265	92.444	-30.311	1.00	31.35	C
ATOM	17366	N6	A	R	20	18.169	92.608	-29.007	1.00	28.71	N
ATOM	17367	1H6	A	R	20	18.981	92.950	-28.538	1.00	28.71	H
ATOM	17368	2H6	A	R	20	17.257	92.613	-28.552	1.00	28.71	H
ATOM	17369	N1	A	R	20	19.484	92.727	-30.768	1.00	27.20	N
ATOM	17370	C2	A	R	20	19.676	92.681	-32.078	1.00	32.72	C
ATOM	17371	H2	A	R	20	20.676	92.915	-32.417	1.00	32.72	H
ATOM	17372	N3	A	R	20	18.787	92.421	-33.031	1.00	35.81	N
ATOM	17373	C4	A	R	20	17.561	92.124	-32.518	1.00	35.96	C
ATOM	17374	P	A	R	21	16.322	91.850	-38.449	1.00	45.21	P
ATOM	17375	O1P	A	R	21	17.403	92.306	-37.554	1.00	44.19	O
ATOM	17376	O2P	A	R	21	16.332	92.275	-39.854	1.00	50.89	O
ATOM	17377	O5*	A	R	21	16.399	90.254	-38.401	1.00	53.54	O
ATOM	17378	C5*	A	R	21	15.630	89.449	-39.287	1.00	38.19	C
ATOM	17379	1H5*	A	R	21	15.742	89.816	-40.310	1.00	38.19	H
ATOM	17380	2H5*	A	R	21	14.574	89.497	-39.016	1.00	38.19	H
ATOM	17381	C4*	A	R	21	16.097	87.988	-39.246	1.00	42.47	C
ATOM	17382	H4*	A	R	21	15.617	87.445	-40.063	1.00	42.47	H
ATOM	17383	O4*	A	R	21	17.504	87.954	-39.437	1.00	37.77	O
ATOM	17384	C3*	A	R	21	15.800	87.241	-37.935	1.00	41.21	C
ATOM	17385	H3*	A	R	21	15.247	87.864	-37.230	1.00	41.21	H
ATOM	17386	O3*	A	R	21	15.095	86.057	-38.247	1.00	35.62	O
ATOM	17387	C2*	A	R	21	17.217	86.935	-37.423	1.00	40.07	C
ATOM	17388	H2*	A	R	21	17.562	87.801	-36.856	1.00	40.07	H
ATOM	17389	O2*	A	R	21	17.334	85.773	-36.613	1.00	46.88	O
ATOM	17390	*HO2	A	R	21	16.424	85.476	-36.361	1.00	46.88	H
ATOM	17391	C1*	A	R	21	18.012	86.838	-38.730	1.00	37.36	C
ATOM	17392	H1*	A	R	21	17.765	85.906	-39.255	1.00	37.36	H
ATOM	17393	N9	A	R	21	19.486	86.941	-38.547	1.00	38.10	N
ATOM	17394	C8	A	R	21	20.245	86.525	-37.477	1.00	37.40	C
ATOM	17395	H8	A	R	21	19.819	86.004	-36.629	1.00	37.40	H
ATOM	17396	N7	A	R	21	21.503	86.881	-37.536	1.00	40.51	N
ATOM	17397	C5	A	R	21	21.609	87.470	-38.803	1.00	35.50	C
ATOM	17398	C6	A	R	21	22.643	88.097	-39.542	1.00	37.32	C
ATOM	17399	N6	A	R	21	23.851	88.383	-39.116	1.00	33.04	N
ATOM	17400	1H6	A	R	21	24.337	89.053	-39.699	1.00	33.04	H
ATOM	17401	2H6	A	R	21	24.073	88.270	-38.122	1.00	33.04	H
ATOM	17402	N1	A	R	21	22.436	88.617	-40.745	1.00	30.30	N
ATOM	17403	C2	A	R	21	21.218	88.522	-41.243	1.00	36.94	C
ATOM	17404	H2	A	R	21	21.080	88.923	-42.235	1.00	36.94	H
ATOM	17405	N3	A	R	21	20.134	88.058	-40.644	1.00	38.70	N
ATOM	17406	C4	A	R	21	20.392	87.494	-39.432	1.00	38.91	C
ATOM	17407	P	A	R	22	14.083	85.419	-37.203	1.00	45.07	P
ATOM	17408	O1P	A	R	22	12.930	86.329	-37.077	1.00	41.06	O
ATOM	17409	O2P	A	R	22	14.877	85.059	-36.011	1.00	43.44	O
ATOM	17410	O5*	A	R	22	13.630	84.078	-37.952	1.00	41.78	O
ATOM	17411	C5*	A	R	22	14.486	82.950	-38.062	1.00	33.45	C
ATOM	17412	1H5*	A	R	22	14.034	82.131	-37.504	1.00	33.45	H
ATOM	17413	2H5*	A	R	22	15.455	83.163	-37.606	1.00	33.45	H
ATOM	17414	C4*	A	R	22	14.726	82.472	-39.507	1.00	33.17	C
ATOM	17415	H4*	A	R	22	15.197	81.491	-39.446	1.00	33.17	H
ATOM	17416	O4*	A	R	22	13.529	82.359	-40.267	1.00	34.17	O
ATOM	17417	C3*	A	R	22	15.649	83.366	-40.322	1.00	36.53	C
ATOM	17418	H3*	A	R	22	16.346	83.908	-39.680	1.00	36.53	H
ATOM	17419	O3*	A	R	22	16.331	82.524	-41.237	1.00	34.16	O
ATOM	17420	C2*	A	R	22	14.671	84.321	-41.021	1.00	38.36	C
ATOM	17421	H2*	A	R	22	14.534	85.210	-40.408	1.00	38.36	H
ATOM	17422	O2*	A	R	22	15.121	84.695	-42.317	1.00	38.34	O
ATOM	17423	*HO2	A	R	22	16.111	84.654	-42.295	1.00	38.34	H
ATOM	17424	C1*	A	R	22	13.361	83.527	-41.076	1.00	32.44	C
ATOM	17425	H1*	A	R	22	13.215	83.224	-42.108	1.00	32.44	H

ATOM	17426	N9	A	R	22	12.166	84.295	-40.630	1.00	34.98	N
ATOM	17427	C8	A	R	22	11.213	83.896	-39.722	1.00	32.95	C
ATOM	17428	H8	A	R	22	11.272	82.935	-39.230	1.00	32.95	H
ATOM	17429	N7	A	R	22	10.245	84.753	-39.511	1.00	35.41	N
ATOM	17430	C5	A	R	22	10.642	85.837	-40.307	1.00	32.51	C
ATOM	17431	C6	A	R	22	10.151	87.147	-40.508	1.00	38.64	C
ATOM	17432	N6	A	R	22	9.139	87.678	-39.854	1.00	37.87	N
ATOM	17433	1H6	A	R	22	8.979	88.649	-40.031	1.00	37.87	H
ATOM	17434	2H6	A	R	22	8.787	87.155	-39.073	1.00	37.87	H
ATOM	17435	N1	A	R	22	10.691	87.986	-41.388	1.00	41.29	N
ATOM	17436	C2	A	R	22	11.751	87.549	-42.055	1.00	35.13	C
ATOM	17437	H2	A	R	22	12.185	88.241	-42.764	1.00	35.13	H
ATOM	17438	N3	A	R	22	12.335	86.361	-41.974	1.00	34.65	N
ATOM	17439	C4	A	R	22	11.759	85.546	-41.044	1.00	34.12	C
ATOM	17440	P	A	R	23	17.795	82.916	-41.710	1.00	43.49	P
ATOM	17441	O1P	A	R	23	18.713	82.482	-40.643	1.00	37.32	O
ATOM	17442	O2P	A	R	23	17.708	84.344	-42.084	1.00	37.37	O
ATOM	17443	O5*	A	R	23	17.991	82.031	-43.034	1.00	44.00	O
ATOM	17444	C5*	A	R	23	17.247	82.312	-44.211	1.00	40.52	C
ATOM	17445	1H5*	A	R	23	17.276	83.384	-44.415	1.00	40.52	H
ATOM	17446	2H5*	A	R	23	16.210	82.028	-44.036	1.00	40.52	H
ATOM	17447	C4*	A	R	23	17.758	81.570	-45.458	1.00	43.37	C
ATOM	17448	H4*	A	R	23	16.984	81.626	-46.224	1.00	43.37	H
ATOM	17449	O4*	A	R	23	18.926	82.207	-45.967	1.00	42.04	O
ATOM	17450	C3*	A	R	23	18.096	80.089	-45.230	1.00	46.42	C
ATOM	17451	H3*	A	R	23	17.641	79.712	-44.313	1.00	46.42	H
ATOM	17452	O3*	A	R	23	17.621	79.377	-46.376	1.00	56.99	O
ATOM	17453	C2*	A	R	23	19.623	80.189	-45.089	1.00	45.41	C
ATOM	17454	H2*	A	R	23	19.853	80.640	-44.121	1.00	45.41	H
ATOM	17455	O2*	A	R	23	20.329	78.964	-45.215	1.00	44.28	O
ATOM	17456	*HO2	A	R	23	19.667	78.239	-45.163	1.00	44.28	H
ATOM	17457	C1*	A	R	23	19.904	81.202	-46.193	1.00	42.33	C
ATOM	17458	H1*	A	R	23	19.713	80.721	-47.151	1.00	42.33	H
ATOM	17459	N9	A	R	23	21.272	81.770	-46.212	1.00	35.27	N
ATOM	17460	C8	A	R	23	22.336	81.517	-45.377	1.00	37.36	C
ATOM	17461	H8	A	R	23	22.268	80.822	-44.551	1.00	37.36	H
ATOM	17462	N7	A	R	23	23.419	82.205	-45.648	1.00	33.55	N
ATOM	17463	C5	A	R	23	23.045	82.918	-46.797	1.00	26.54	C
ATOM	17464	C6	A	R	23	23.696	83.831	-47.659	1.00	24.62	C
ATOM	17465	N6	A	R	23	24.933	84.257	-47.506	1.00	22.16	N
ATOM	17466	1H6	A	R	23	25.297	84.821	-48.246	1.00	22.16	H
ATOM	17467	2H6	A	R	23	25.476	83.839	-46.772	1.00	22.16	H
ATOM	17468	N1	A	R	23	23.102	84.339	-48.736	1.00	22.57	N
ATOM	17469	C2	A	R	23	21.862	83.935	-48.982	1.00	23.37	C
ATOM	17470	H2	A	R	23	21.399	84.341	-49.870	1.00	23.37	H
ATOM	17471	N3	A	R	23	21.107	83.114	-48.264	1.00	33.75	N
ATOM	17472	C4	A	R	23	21.759	82.632	-47.168	1.00	29.46	C
ATOM	17473	P	A	R	25	17.706	77.786	-46.486	1.00	47.33	P
ATOM	17474	O1P	A	R	25	16.396	77.300	-46.970	1.00	45.15	O
ATOM	17475	O2P	A	R	25	18.222	77.297	-45.193	1.00	49.44	O
ATOM	17476	O5*	A	R	25	18.828	77.486	-47.588	1.00	51.90	O
ATOM	17477	C5*	A	R	25	18.554	77.413	-48.980	1.00	42.25	C
ATOM	17478	1H5*	A	R	25	17.582	76.944	-49.141	1.00	42.25	H
ATOM	17479	2H5*	A	R	25	19.296	76.748	-49.418	1.00	42.25	H
ATOM	17480	C4*	A	R	25	18.569	78.773	-49.715	1.00	46.71	C
ATOM	17481	H4*	A	R	25	17.570	79.203	-49.656	1.00	46.71	H
ATOM	17482	O4*	A	R	25	19.504	79.692	-49.156	1.00	49.29	O
ATOM	17483	C3*	A	R	25	18.991	78.611	-51.187	1.00	51.82	C
ATOM	17484	H3*	A	R	25	18.669	77.648	-51.588	1.00	51.82	H
ATOM	17485	O3*	A	R	25	18.361	79.682	-51.895	1.00	55.23	O
ATOM	17486	C2*	A	R	25	20.522	78.640	-50.982	1.00	47.37	C
ATOM	17487	H2*	A	R	25	20.825	77.709	-50.503	1.00	47.37	H
ATOM	17488	O2*	A	R	25	21.329	78.784	-52.136	1.00	54.80	O
ATOM	17489	*HO2	A	R	25	20.940	79.490	-52.708	1.00	54.80	H
ATOM	17490	C1*	A	R	25	20.670	79.763	-49.964	1.00	45.71	C
ATOM	17491	H1*	A	R	25	20.702	80.721	-50.493	1.00	45.71	H
ATOM	17492	N9	A	R	25	21.881	79.616	-49.126	1.00	41.12	N
ATOM	17493	C8	A	R	25	22.064	78.835	-48.008	1.00	45.70	C
ATOM	17494	H8	A	R	25	21.280	78.210	-47.599	1.00	45.70	H
ATOM	17495	N7	A	R	25	23.255	78.931	-47.473	1.00	38.84	N
ATOM	17496	C5	A	R	25	23.895	79.860	-48.303	1.00	31.14	C
ATOM	17497	C6	A	R	25	25.170	80.472	-48.311	1.00	31.35	C
ATOM	17498	N6	A	R	25	26.103	80.266	-47.405	1.00	28.71	N
ATOM	17499	1H6	A	R	25	26.963	80.762	-47.512	1.00	28.71	H
ATOM	17500	2H6	A	R	25	25.868	79.666	-46.632	1.00	28.71	H
ATOM	17501	N1	A	R	25	25.530	81.344	-49.252	1.00	27.20	N
ATOM	17502	C2	A	R	25	24.625	81.630	-50.180	1.00	32.72	C

ATOM	17503	H2	A	R	25	24.929	82.345	-50.930	1.00	32.72	H
ATOM	17504	N3	A	R	25	23.388	81.167	-50.297	1.00	35.81	N
ATOM	17505	C4	A	R	25	23.076	80.270	-49.319	1.00	35.96	C
ATOM	17506	P	A	R	26	18.652	80.016	-53.424	1.00	45.21	P
ATOM	17507	O1P	A	R	26	20.048	80.448	-53.585	1.00	44.19	O
ATOM	17508	O2P	A	R	26	17.603	80.903	-53.967	1.00	50.89	O
ATOM	17509	O5*	A	R	26	18.521	78.651	-54.240	1.00	53.54	O
ATOM	17510	C5*	A	R	26	17.261	78.061	-54.515	1.00	38.19	C
ATOM	17511	1H5*	A	R	26	16.505	78.827	-54.692	1.00	38.19	H
ATOM	17512	2H5*	A	R	26	16.951	77.462	-53.658	1.00	38.19	H
ATOM	17513	C4*	A	R	26	17.344	77.161	-55.754	1.00	42.47	C
ATOM	17514	H4*	A	R	26	16.332	76.850	-56.018	1.00	42.47	H
ATOM	17515	O4*	A	R	26	17.926	77.867	-56.853	1.00	37.77	O
ATOM	17516	C3*	A	R	26	18.176	75.897	-55.517	1.00	41.21	C
ATOM	17517	H3*	A	R	26	18.374	75.728	-54.456	1.00	41.21	H
ATOM	17518	O3*	A	R	26	17.458	74.827	-56.101	1.00	35.62	O
ATOM	17519	C2*	A	R	26	19.460	76.231	-56.287	1.00	40.07	C
ATOM	17520	H2*	A	R	26	20.075	76.896	-55.678	1.00	40.07	H
ATOM	17521	O2*	A	R	26	20.222	75.104	-56.696	1.00	46.88	O
ATOM	17522	*HO2	A	R	26	19.793	74.276	-56.352	1.00	46.88	H
ATOM	17523	C1*	A	R	26	18.875	77.003	-57.470	1.00	37.36	C
ATOM	17524	H1*	A	R	26	18.350	76.276	-58.098	1.00	37.36	H
ATOM	17525	N9	A	R	26	19.901	77.709	-58.297	1.00	38.10	N
ATOM	17526	C8	A	R	26	21.183	77.289	-58.589	1.00	37.40	C
ATOM	17527	H8	A	R	26	21.628	76.411	-58.140	1.00	37.40	H
ATOM	17528	N7	A	R	26	21.821	78.032	-59.458	1.00	40.51	N
ATOM	17529	C5	A	R	26	20.877	79.005	-59.790	1.00	35.50	C
ATOM	17530	C6	A	R	26	20.860	80.094	-60.694	1.00	37.32	C
ATOM	17531	N6	A	R	26	21.840	80.404	-61.518	1.00	33.04	N
ATOM	17532	1H6	A	R	26	21.584	81.056	-62.262	1.00	33.04	H
ATOM	17533	2H6	A	R	26	22.555	79.707	-61.628	1.00	33.04	H
ATOM	17534	N1	A	R	26	19.801	80.884	-60.813	1.00	30.30	N
ATOM	17535	C2	A	R	26	18.742	80.591	-60.079	1.00	36.94	C
ATOM	17536	H2	A	R	26	17.896	81.242	-60.200	1.00	36.94	H
ATOM	17537	N3	A	R	26	18.604	79.624	-59.179	1.00	38.70	N
ATOM	17538	C4	A	R	26	19.712	78.829	-59.089	1.00	38.91	C
ATOM	17539	P	A	R	27	17.624	73.360	-55.519	1.00	45.07	P
ATOM	17540	O1P	A	R	27	17.098	73.364	-54.143	1.00	41.06	O
ATOM	17541	O2P	A	R	27	19.029	72.983	-55.763	1.00	43.44	O
ATOM	17542	O5*	A	R	27	16.681	72.459	-56.441	1.00	41.78	O
ATOM	17543	C5*	A	R	27	16.651	71.057	-56.252	1.00	33.45	C
ATOM	17544	1H5*	A	R	27	16.349	70.843	-55.226	1.00	33.45	H
ATOM	17545	2H5*	A	R	27	17.660	70.669	-56.400	1.00	33.45	H
ATOM	17546	C4*	A	R	27	15.701	70.324	-57.212	1.00	33.17	C
ATOM	17547	H4*	A	R	27	15.904	69.262	-57.111	1.00	33.17	H
ATOM	17548	O4*	A	R	27	14.343	70.564	-56.856	1.00	34.17	O
ATOM	17549	C3*	A	R	27	15.889	70.701	-58.683	1.00	36.53	C
ATOM	17550	H3*	A	R	27	16.885	71.120	-58.847	1.00	36.53	H
ATOM	17551	O3*	A	R	27	15.686	69.554	-59.499	1.00	34.16	O
ATOM	17552	C2*	A	R	27	14.814	71.787	-58.845	1.00	38.36	C
ATOM	17553	H2*	A	R	27	15.270	72.731	-58.544	1.00	38.36	H
ATOM	17554	O2*	A	R	27	14.259	71.908	-60.149	1.00	38.34	O
ATOM	17555	*HO2	A	R	27	14.922	71.529	-60.784	1.00	38.34	H
ATOM	17556	C1*	A	R	27	13.726	71.379	-57.848	1.00	32.44	C
ATOM	17557	H1*	A	R	27	13.013	70.761	-58.394	1.00	32.44	H
ATOM	17558	N9	A	R	27	12.993	72.539	-57.262	1.00	34.98	N
ATOM	17559	C8	A	R	27	13.046	73.868	-57.628	1.00	32.95	C
ATOM	17560	H8	A	R	27	13.725	74.241	-58.386	1.00	32.95	H
ATOM	17561	N7	A	R	27	12.181	74.641	-57.019	1.00	35.41	N
ATOM	17562	C5	A	R	27	11.513	73.753	-56.168	1.00	32.51	C
ATOM	17563	C6	A	R	27	10.458	73.879	-55.231	1.00	38.64	C
ATOM	17564	N6	A	R	27	9.826	74.996	-54.923	1.00	37.87	N
ATOM	17565	1H6	A	R	27	9.038	74.914	-54.318	1.00	37.87	H
ATOM	17566	2H6	A	R	27	10.078	75.865	-55.383	1.00	37.87	H
ATOM	17567	N1	A	R	27	9.973	72.825	-54.573	1.00	41.29	N
ATOM	17568	C2	A	R	27	10.515	71.647	-54.849	1.00	35.13	C
ATOM	17569	H2	A	R	27	10.103	70.803	-54.314	1.00	35.13	H
ATOM	17570	N3	A	R	27	11.496	71.363	-55.692	1.00	34.65	N
ATOM	17571	C4	A	R	27	11.980	72.472	-56.325	1.00	34.12	C
ATOM	17572	P	A	R	28	16.397	69.485	-60.923	1.00	43.49	P
ATOM	17573	O1P	A	R	28	17.826	69.186	-60.707	1.00	37.32	O
ATOM	17574	O2P	A	R	28	16.012	70.719	-61.627	1.00	37.37	O
ATOM	17575	O5*	A	R	28	15.763	68.222	-61.676	1.00	44.00	O
ATOM	17576	C5*	A	R	28	14.576	68.312	-62.451	1.00	40.52	C
ATOM	17577	1H5*	A	R	28	14.019	69.213	-62.185	1.00	40.52	H
ATOM	17578	2H5*	A	R	28	13.942	67.466	-62.210	1.00	40.52	H
ATOM	17579	C4*	A	R	28	14.834	68.313	-63.973	1.00	43.37	C

ATOM	17580	H4*	A	R	28	13.945	67.920	-64.463	1.00	43.37	H
ATOM	17581	O4*	A	R	28	15.029	69.663	-64.373	1.00	42.04	O
ATOM	17582	C3*	A	R	28	16.059	67.505	-64.451	1.00	46.42	C
ATOM	17583	H3*	A	R	28	16.289	66.676	-63.781	1.00	46.42	H
ATOM	17584	O3*	A	R	28	15.961	67.077	-65.810	1.00	56.99	O
ATOM	17585	C2*	A	R	28	17.145	68.583	-64.408	1.00	45.41	C
ATOM	17586	H2*	A	R	28	17.511	68.712	-63.391	1.00	45.41	H
ATOM	17587	O2*	A	R	28	18.207	68.264	-65.293	1.00	44.28	O
ATOM	17588	*HO2	A	R	28	17.803	67.680	-65.956	1.00	44.28	H
ATOM	17589	C1*	A	R	28	16.353	69.812	-64.866	1.00	42.33	C
ATOM	17590	H1*	A	R	28	16.298	69.771	-65.950	1.00	42.33	H
ATOM	17591	N9	A	R	28	16.952	71.121	-64.510	1.00	35.27	N
ATOM	17592	C8	A	R	28	18.084	71.394	-63.772	1.00	37.36	C
ATOM	17593	H8	A	R	28	18.612	70.632	-63.214	1.00	37.36	H
ATOM	17594	N7	A	R	28	18.476	72.644	-63.812	1.00	33.55	N
ATOM	17595	C5	A	R	28	17.494	73.244	-64.609	1.00	26.54	C
ATOM	17596	C6	A	R	28	17.261	74.560	-65.069	1.00	24.62	C
ATOM	17597	N6	A	R	28	18.013	75.599	-64.766	1.00	22.16	N
ATOM	17598	1H6	A	R	28	17.717	76.489	-65.111	1.00	22.16	H
ATOM	17599	2H6	A	R	28	18.772	75.445	-64.125	1.00	22.16	H
ATOM	17600	N1	A	R	28	16.239	74.862	-65.871	1.00	22.57	N
ATOM	17601	C2	A	R	28	15.428	73.866	-66.200	1.00	23.37	C
ATOM	17602	H2	A	R	28	14.604	74.125	-66.850	1.00	23.37	H
ATOM	17603	N3	A	R	28	15.484	72.597	-65.827	1.00	33.75	N
ATOM	17604	C4	A	R	28	16.558	72.336	-65.025	1.00	29.46	C
ATOM	17605	P	A	R	30	15.282	65.699	-66.241	1.00	47.33	P
ATOM	17606	O1P	A	R	30	13.840	65.823	-65.933	1.00	45.15	O
ATOM	17607	O2P	A	R	30	16.042	64.606	-65.607	1.00	49.44	O
ATOM	17608	O5*	A	R	30	15.565	65.696	-67.846	1.00	51.90	O
ATOM	17609	C5*	A	R	30	14.582	65.311	-68.810	1.00	42.25	C
ATOM	17610	1H5*	A	R	30	13.591	65.460	-68.382	1.00	42.25	H
ATOM	17611	2H5*	A	R	30	14.692	64.246	-68.991	1.00	42.25	H
ATOM	17612	C4*	A	R	30	14.615	66.028	-70.191	1.00	46.71	C
ATOM	17613	H4*	A	R	30	13.632	65.853	-70.625	1.00	46.71	H
ATOM	17614	O4*	A	R	30	14.785	67.444	-70.113	1.00	49.29	O
ATOM	17615	C3*	A	R	30	15.608	65.535	-71.270	1.00	51.82	C
ATOM	17616	H3*	A	R	30	16.427	65.018	-70.768	1.00	51.82	H
ATOM	17617	O3*	A	R	30	15.015	64.614	-72.210	1.00	55.23	O
ATOM	17618	C2*	A	R	30	16.172	66.861	-71.826	1.00	47.37	C
ATOM	17619	H2*	A	R	30	17.070	67.109	-71.258	1.00	47.37	H
ATOM	17620	O2*	A	R	30	16.468	66.916	-73.209	1.00	54.80	O
ATOM	17621	*HO2	A	R	30	15.937	66.233	-73.662	1.00	54.80	H
ATOM	17622	C1*	A	R	30	15.072	67.836	-71.436	1.00	45.71	C
ATOM	17623	H1*	A	R	30	14.197	67.606	-72.026	1.00	45.71	H
ATOM	17624	N9	A	R	30	15.320	69.271	-71.709	1.00	41.12	N
ATOM	17625	C8	A	R	30	14.375	70.120	-72.232	1.00	45.70	C
ATOM	17626	H8	A	R	30	13.325	69.855	-72.271	1.00	45.70	H
ATOM	17627	N7	A	R	30	14.850	71.226	-72.743	1.00	38.84	N
ATOM	17628	C5	A	R	30	16.215	71.136	-72.441	1.00	31.14	C
ATOM	17629	C6	A	R	30	17.321	71.994	-72.633	1.00	31.35	C
ATOM	17630	N6	A	R	30	17.250	73.206	-73.148	1.00	28.71	N
ATOM	17631	1H6	A	R	30	18.115	73.712	-73.182	1.00	28.71	H
ATOM	17632	2H6	A	R	30	16.345	73.618	-73.291	1.00	28.71	H
ATOM	17633	N1	A	R	30	18.557	71.637	-72.312	1.00	27.20	N
ATOM	17634	C2	A	R	30	18.713	70.434	-71.773	1.00	32.72	C
ATOM	17635	H2	A	R	30	19.726	70.152	-71.521	1.00	32.72	H
ATOM	17636	N3	A	R	30	17.777	69.540	-71.488	1.00	35.81	N
ATOM	17637	C4	A	R	30	16.524	69.942	-71.841	1.00	35.96	C
ATOM	17638	P	A	R	31	13.969	64.929	-73.420	1.00	45.21	P
ATOM	17639	O1P	A	R	31	13.178	66.130	-73.111	1.00	44.19	O
ATOM	17640	O2P	A	R	31	13.267	63.689	-73.768	1.00	50.89	O
ATOM	17641	O5*	A	R	31	14.947	65.310	-74.642	1.00	53.54	O
ATOM	17642	C5*	A	R	31	15.654	64.301	-75.359	1.00	38.19	C
ATOM	17643	1H5*	A	R	31	14.938	63.572	-75.744	1.00	38.19	H
ATOM	17644	2H5*	A	R	31	16.321	63.776	-74.674	1.00	38.19	H
ATOM	17645	C4*	A	R	31	16.483	64.834	-76.549	1.00	42.47	C
ATOM	17646	H4*	A	R	31	16.935	63.970	-77.039	1.00	42.47	H
ATOM	17647	O4*	A	R	31	15.631	65.498	-77.489	1.00	37.77	O
ATOM	17648	C3*	A	R	31	17.614	65.818	-76.185	1.00	41.21	C
ATOM	17649	H3*	A	R	31	17.939	65.707	-75.149	1.00	41.21	H
ATOM	17650	O3*	A	R	31	18.672	65.569	-77.101	1.00	35.62	O
ATOM	17651	C2*	A	R	31	16.876	67.144	-76.428	1.00	40.07	C
ATOM	17652	H2*	A	R	31	16.130	67.252	-75.643	1.00	40.07	H
ATOM	17653	O2*	A	R	31	17.617	68.361	-76.505	1.00	46.88	O
ATOM	17654	*HO2	A	R	31	18.497	68.142	-76.914	1.00	46.88	H
ATOM	17655	C1*	A	R	31	16.157	66.794	-77.723	1.00	37.36	C
ATOM	17656	H1*	A	R	31	16.876	66.782	-78.550	1.00	37.36	H

ATOM	17657	N9	A	R	31	15.088	67.778	-77.958	1.00	38.10	N
ATOM	17658	C8	A	R	31	13.984	67.993	-77.172	1.00	37.40	C
ATOM	17659	H8	A	R	31	13.693	67.312	-76.377	1.00	37.40	H
ATOM	17660	N7	A	R	31	13.400	69.141	-77.398	1.00	40.51	N
ATOM	17661	C5	A	R	31	14.081	69.636	-78.519	1.00	35.50	C
ATOM	17662	C6	A	R	31	13.915	70.747	-79.379	1.00	37.32	C
ATOM	17663	N6	A	R	31	12.899	71.574	-79.315	1.00	33.04	N
ATOM	17664	1H6	A	R	31	12.617	71.982	-80.202	1.00	33.04	H
ATOM	17665	2H6	A	R	31	12.156	71.278	-78.697	1.00	33.04	H
ATOM	17666	N1	A	R	31	14.790	71.037	-80.343	1.00	30.30	N
ATOM	17667	C2	A	R	31	15.788	70.176	-80.514	1.00	36.94	C
ATOM	17668	H2	A	R	31	16.487	70.411	-81.304	1.00	36.94	H
ATOM	17669	N3	A	R	31	16.045	69.068	-79.830	1.00	38.70	N
ATOM	17670	C4	A	R	31	15.136	68.833	-78.844	1.00	38.91	C
ATOM	17671	F	A	R	32	20.072	66.308	-76.980	1.00	45.07	F
ATOM	17672	O1P	A	R	32	20.536	66.170	-75.592	1.00	41.06	O
ATOM	17673	O2P	A	R	32	19.892	67.652	-77.571	1.00	43.44	O
ATOM	17674	O5*	A	R	32	21.016	65.411	-77.910	1.00	41.78	O
ATOM	17675	C5*	A	R	32	20.890	65.371	-79.323	1.00	33.45	C
ATOM	17676	1H5*	A	R	32	21.597	66.083	-79.748	1.00	33.45	H
ATOM	17677	2H5*	A	R	32	19.884	65.672	-79.621	1.00	33.45	H
ATOM	17678	C4*	A	R	32	21.194	63.968	-79.897	1.00	33.17	C
ATOM	17679	H4*	A	R	32	21.386	64.072	-80.965	1.00	33.17	H
ATOM	17680	O4*	A	R	32	22.328	63.390	-79.251	1.00	34.17	O
ATOM	17681	C3*	A	R	32	20.041	62.975	-79.714	1.00	36.53	C
ATOM	17682	H3*	A	R	32	19.073	63.481	-79.741	1.00	36.53	H
ATOM	17683	O3*	A	R	32	20.126	61.938	-80.694	1.00	34.16	O
ATOM	17684	C2*	A	R	32	20.345	62.437	-78.316	1.00	38.36	C
ATOM	17685	H2*	A	R	32	20.063	63.178	-77.566	1.00	38.36	H
ATOM	17686	O2*	A	R	32	19.712	61.199	-78.040	1.00	38.34	O
ATOM	17687	*HO2	A	R	32	18.990	61.079	-78.705	1.00	38.34	O
ATOM	17688	C1*	A	R	32	21.865	62.319	-78.429	1.00	32.44	C
ATOM	17689	H1*	A	R	32	22.057	61.384	-78.954	1.00	32.44	H
ATOM	17690	N9	A	R	32	22.561	62.261	-77.127	1.00	34.98	N
ATOM	17691	C8	A	R	32	22.379	63.022	-75.992	1.00	32.95	C
ATOM	17692	H8	A	R	32	21.702	63.869	-75.954	1.00	32.95	H
ATOM	17693	N7	A	R	32	23.096	62.629	-74.965	1.00	35.41	N
ATOM	17694	C5	A	R	32	23.786	61.521	-75.470	1.00	32.51	C
ATOM	17695	C6	A	R	32	24.705	60.593	-74.931	1.00	38.64	C
ATOM	17696	N6	A	R	32	25.131	60.598	-73.684	1.00	37.87	N
ATOM	17697	1H6	A	R	32	25.769	59.872	-73.426	1.00	37.87	H
ATOM	17698	2H6	A	R	32	24.764	61.305	-73.070	1.00	37.87	H
ATOM	17699	N1	A	R	32	25.222	59.607	-75.659	1.00	41.29	N
ATOM	17700	C2	A	R	32	24.835	59.522	-76.926	1.00	35.13	C
ATOM	17701	H2	A	R	32	25.259	58.709	-77.497	1.00	35.13	H
ATOM	17702	N3	A	R	32	23.977	60.303	-77.575	1.00	34.65	N
ATOM	17703	C4	A	R	32	23.479	61.297	-76.782	1.00	34.12	C
ATOM	17704	P	A	R	33	18.774	61.309	-81.244	1.00	43.49	P
ATOM	17705	O1P	A	R	33	18.272	62.293	-82.210	1.00	37.32	O
ATOM	17706	O2P	A	R	33	17.994	60.931	-80.049	1.00	37.37	O
ATOM	17707	O5*	A	R	33	19.196	59.973	-82.029	1.00	44.00	O
ATOM	17708	C5*	A	R	33	18.242	58.937	-82.263	1.00	40.52	C
ATOM	17709	1H5*	A	R	33	17.379	59.073	-81.609	1.00	40.52	H
ATOM	17710	2H5*	A	R	33	18.685	57.988	-81.988	1.00	40.52	H
ATOM	17711	C4*	A	R	33	17.721	58.822	-83.707	1.00	43.37	C
ATOM	17712	H4*	A	R	33	17.265	57.840	-83.821	1.00	43.37	H
ATOM	17713	O4*	A	R	33	16.722	59.821	-83.872	1.00	42.04	O
ATOM	17714	C3*	A	R	33	18.783	59.001	-84.809	1.00	46.42	C
ATOM	17715	H3*	A	R	33	19.786	58.783	-84.441	1.00	46.42	H
ATOM	17716	O3*	A	R	33	18.495	58.287	-86.021	1.00	56.99	O
ATOM	17717	C2*	A	R	33	18.606	60.497	-85.094	1.00	45.41	C
ATOM	17718	H2*	A	R	33	19.118	61.087	-84.333	1.00	45.41	H
ATOM	17719	O2*	A	R	33	19.070	60.816	-86.396	1.00	44.28	O
ATOM	17720	*HO2	A	R	33	18.949	59.999	-86.905	1.00	44.28	O
ATOM	17721	C1*	A	R	33	17.089	60.666	-84.948	1.00	42.33	C
ATOM	17722	H1*	A	R	33	16.630	60.278	-85.849	1.00	42.33	H
ATOM	17723	N9	A	R	33	16.637	62.076	-84.801	1.00	35.27	N
ATOM	17724	C8	A	R	33	17.336	63.214	-85.133	1.00	37.36	C
ATOM	17725	H8	A	R	33	18.384	63.186	-85.392	1.00	37.36	H
ATOM	17726	N7	A	R	33	16.632	64.317	-85.157	1.00	33.55	N
ATOM	17727	C5	A	R	33	15.364	63.866	-84.770	1.00	26.54	C
ATOM	17728	C6	A	R	33	14.111	64.497	-84.591	1.00	24.62	C
ATOM	17729	N6	A	R	33	13.891	65.787	-84.751	1.00	22.16	N
ATOM	17730	1H6	A	R	33	12.971	66.121	-84.544	1.00	22.16	H
ATOM	17731	2H6	A	R	33	14.680	66.365	-84.977	1.00	22.16	H
ATOM	17732	N1	A	R	33	13.016	63.820	-84.252	1.00	22.57	N
ATOM	17733	C2	A	R	33	13.166	62.521	-84.048	1.00	23.37	C



ATOM	17734	H2	A	R	33	12.268	61.992	-83.767	1.00	23.37	H
ATOM	17735	N3	A	R	33	14.259	61.781	-84.161	1.00	33.75	N
ATOM	17736	C4	A	R	33	15.353	62.515	-84.531	1.00	29.46	C
ATOM	17737	P	A	R	35	18.895	56.752	-86.255	1.00	47.33	P
ATOM	17738	O1P	A	R	35	18.030	55.917	-85.394	1.00	45.15	O
ATOM	17739	O2P	A	R	35	20.363	56.643	-86.079	1.00	49.44	O
ATOM	17740	O5*	A	R	35	18.522	56.510	-87.828	1.00	51.90	O
ATOM	17741	C5*	A	R	35	17.295	55.866	-88.190	1.00	42.25	C
ATOM	17742	1H5*	A	R	35	16.545	56.177	-87.471	1.00	42.25	H
ATOM	17743	2H5*	A	R	35	17.434	54.801	-88.017	1.00	42.25	H
ATOM	17744	C4*	A	R	35	16.642	56.020	-89.597	1.00	46.71	C
ATOM	17745	H4*	A	R	35	16.268	55.024	-89.820	1.00	46.71	H
ATOM	17746	O4*	A	R	35	15.495	56.868	-89.552	1.00	49.29	O
ATOM	17747	C3*	A	R	35	17.450	56.489	-90.832	1.00	51.82	C
ATOM	17748	H3*	A	R	35	18.426	56.841	-90.498	1.00	51.82	H
ATOM	17749	O3*	A	R	35	17.658	55.472	-91.836	1.00	55.23	O
ATOM	17750	C2*	A	R	35	16.644	57.713	-91.325	1.00	47.37	C
ATOM	17751	H2*	A	R	35	16.969	58.597	-90.775	1.00	47.37	H
ATOM	17752	O2*	A	R	35	16.752	57.955	-92.718	1.00	54.80	O
ATOM	17753	*HO2	A	R	35	16.628	57.107	-93.183	1.00	54.80	H
ATOM	17754	C1*	A	R	35	15.239	57.340	-90.863	1.00	45.71	C
ATOM	17755	H1*	A	R	35	14.891	56.517	-91.479	1.00	45.71	H
ATOM	17756	N9	A	R	35	14.150	58.355	-90.874	1.00	41.12	N
ATOM	17757	C8	A	R	35	12.824	58.068	-90.654	1.00	45.70	C
ATOM	17758	H8	A	R	35	12.492	57.073	-90.387	1.00	45.70	H
ATOM	17759	N7	A	R	35	12.003	59.071	-90.829	1.00	38.84	N
ATOM	17760	C5	A	R	35	12.874	60.130	-91.109	1.00	31.14	C
ATOM	17761	C6	A	R	35	12.694	61.516	-91.329	1.00	31.35	C
ATOM	17762	N6	A	R	35	11.546	62.155	-91.210	1.00	28.71	N
ATOM	17763	1H6	A	R	35	11.583	63.150	-91.337	1.00	28.71	H
ATOM	17764	2H6	A	R	35	10.778	61.691	-90.754	1.00	28.71	H
ATOM	17765	N1	A	R	35	13.693	62.297	-91.717	1.00	27.20	N
ATOM	17766	C2	A	R	35	14.888	61.733	-91.841	1.00	32.72	C
ATOM	17767	H2	A	R	35	15.692	62.384	-92.155	1.00	32.72	H
ATOM	17768	N3	A	R	35	15.224	60.475	-91.596	1.00	35.81	N
ATOM	17769	C4	A	R	35	14.170	59.697	-91.222	1.00	35.96	C
ATOM	17770	P	A	R	36	16.527	54.654	-92.683	1.00	45.21	P
ATOM	17771	O1P	A	R	36	15.354	54.410	-91.825	1.00	44.19	O
ATOM	17772	O2P	A	R	36	17.206	53.512	-93.310	1.00	50.89	O
ATOM	17773	O5*	A	R	36	16.070	55.657	-93.863	1.00	53.54	O
ATOM	17774	C5*	A	R	36	16.662	55.551	-95.157	1.00	38.19	C
ATOM	17775	1H5*	A	R	36	16.635	54.506	-95.473	1.00	38.19	H
ATOM	17776	2H5*	A	R	36	17.710	55.848	-95.096	1.00	38.19	H
ATOM	17777	C4*	A	R	36	15.979	56.369	-96.266	1.00	42.47	C
ATOM	17778	H4*	A	R	36	16.474	56.092	-97.199	1.00	42.47	H
ATOM	17779	O4*	A	R	36	14.596	56.035	-96.394	1.00	37.77	O
ATOM	17780	C3*	A	R	36	16.067	57.899	-96.123	1.00	41.21	C
ATOM	17781	H3*	A	R	36	16.830	58.213	-95.409	1.00	41.21	H
ATOM	17782	O3*	A	R	36	16.328	58.359	-97.438	1.00	35.62	O
ATOM	17783	C2*	A	R	36	14.638	58.204	-95.646	1.00	40.07	C
ATOM	17784	H2*	A	R	36	14.546	57.850	-94.617	1.00	40.07	H
ATOM	17785	O2*	A	R	36	14.173	59.550	-95.718	1.00	46.88	O
ATOM	17786	*HO2	A	R	36	14.706	60.015	-96.413	1.00	46.88	H
ATOM	17787	C1*	A	R	36	13.888	57.250	-96.571	1.00	37.36	C
ATOM	17788	H1*	A	R	36	13.964	57.600	-97.607	1.00	37.36	H
ATOM	17789	N9	A	R	36	12.473	57.106	-96.194	1.00	38.10	N
ATOM	17790	C8	A	R	36	11.958	56.377	-95.155	1.00	37.40	C
ATOM	17791	H8	A	R	36	12.575	55.741	-94.529	1.00	37.40	H
ATOM	17792	N7	A	R	36	10.685	56.588	-94.950	1.00	40.51	N
ATOM	17793	C5	A	R	36	10.311	57.411	-96.022	1.00	35.50	C
ATOM	17794	C6	A	R	36	9.091	57.965	-96.482	1.00	37.32	C
ATOM	17795	N6	A	R	36	7.914	57.682	-95.968	1.00	33.04	N
ATOM	17796	1H6	A	R	36	7.099	57.956	-96.518	1.00	33.04	H
ATOM	17797	2H6	A	R	36	7.864	56.888	-95.349	1.00	33.04	H
ATOM	17798	N1	A	R	36	9.069	58.879	-97.452	1.00	30.30	N
ATOM	17799	C2	A	R	36	10.219	59.151	-98.056	1.00	36.94	C
ATOM	17800	H2	A	R	36	10.174	59.877	-98.857	1.00	36.94	H
ATOM	17801	N3	A	R	36	11.426	58.677	-97.771	1.00	38.70	N
ATOM	17802	C4	A	R	36	11.407	57.781	-96.749	1.00	38.91	C
ATOM	17803	P	A	R	37	16.870	59.812	-97.737	1.00	45.07	P
ATOM	17804	O1P	A	R	37	18.132	60.001	-97.003	1.00	41.06	O
ATOM	17805	O2P	A	R	37	15.733	60.735	-97.538	1.00	43.44	O
ATOM	17806	O5*	A	R	37	17.216	59.671	-99.299	1.00	41.78	O
ATOM	17807	C5*	A	R	37	16.207	59.597	-100.295	1.00	33.45	C
ATOM	17808	1H5*	A	R	37	16.206	60.540	-100.840	1.00	33.45	H
ATOM	17809	2H5*	A	R	37	15.224	59.484	-99.832	1.00	33.45	H
ATOM	17810	C4*	A	R	37	16.417	58.451	-101.309	1.00	33.17	C

ATOM	17811	H4*	A	R	37	15.836	58.695-102.198	1.00	33.17	H
ATOM	17812	O4*	A	R	37	17.793	58.290-101.671	1.00	34.17	O
ATOM	17813	C3*	A	R	37	15.939	57.084-100.813	1.00	36.53	C
ATOM	17814	H3*	A	R	37	15.107	57.166-100.111	1.00	36.53	H
ATOM	17815	O3*	A	R	37	15.597	56.344-101.980	1.00	34.16	O
ATOM	17816	C2*	A	R	37	17.212	56.558-100.144	1.00	38.36	C
ATOM	17817	H2*	A	R	37	17.385	57.073 -99.201	1.00	38.36	H
ATOM	17818	O2*	A	R	37	17.245	55.151 -99.950	1.00	38.34	O
ATOM	17819	*HO2	A	R	37	16.415	54.757-100.318	1.00	38.34	H
ATOM	17820	C1*	A	R	37	18.229	57.024-101.176	1.00	32.44	C
ATOM	17821	H1*	A	R	37	18.183	56.289-101.977	1.00	32.44	H
ATOM	17822	N9	A	R	37	19.611	57.085-100.659	1.00	34.98	N
ATOM	17823	C8	A	R	37	20.196	58.034 -99.852	1.00	32.95	C
ATOM	17824	H8	A	R	37	19.639	58.872 -99.445	1.00	32.95	H
ATOM	17825	N7	A	R	37	21.484	57.854 -99.660	1.00	35.41	N
ATOM	17826	C5	A	R	37	21.732	56.653-100.339	1.00	32.51	C
ATOM	17827	C6	A	R	37	22.870	55.835-100.529	1.00	38.64	C
ATOM	17828	N6	A	R	37	24.062	56.095-100.030	1.00	37.87	N
ATOM	17829	1H6	A	R	37	24.757	55.384-100.124	1.00	37.87	H
ATOM	17830	2H6	A	R	37	24.130	56.899 -99.429	1.00	37.87	H
ATOM	17831	N1	A	R	37	22.824	54.691-101.215	1.00	41.29	N
ATOM	17832	C2	A	R	37	21.635	54.349-101.697	1.00	35.13	C
ATOM	17833	H2	A	R	37	21.600	53.415-102.235	1.00	35.13	H
ATOM	17834	N3	A	R	37	20.489	55.006-101.633	1.00	34.65	N
ATOM	17835	C4	A	R	37	20.598	56.166-100.925	1.00	34.12	C
ATOM	17836	P	A	R	38	14.504	55.200-101.903	1.00	43.49	P
ATOM	17837	O1P	A	R	38	13.240	55.831-101.505	1.00	37.32	O
ATOM	17838	O2P	A	R	38	15.116	54.128-101.091	1.00	37.37	O
ATOM	17839	O5*	A	R	38	14.417	54.709-103.430	1.00	44.00	O
ATOM	17840	C5*	A	R	38	13.841	53.452-103.770	1.00	40.52	C
ATOM	17841	1H5*	A	R	38	14.139	52.701-103.039	1.00	40.52	H
ATOM	17842	2H5*	A	R	38	14.243	53.156-104.740	1.00	40.52	H
ATOM	17843	C4*	A	R	38	12.309	53.424-103.878	1.00	43.37	C
ATOM	17844	H4*	A	R	38	12.064	52.572-104.511	1.00	43.37	H
ATOM	17845	O4*	A	R	38	11.639	53.193-102.642	1.00	42.04	O
ATOM	17846	C3*	A	R	38	11.690	54.659-104.549	1.00	46.42	C
ATOM	17847	H3*	A	R	38	12.404	55.476-104.642	1.00	46.42	H
ATOM	17848	O3*	A	R	38	11.190	54.258-105.816	1.00	56.99	O
ATOM	17849	C2*	A	R	38	10.596	55.036-103.537	1.00	45.41	C
ATOM	17850	H2*	A	R	38	11.034	55.731-102.817	1.00	45.41	H
ATOM	17851	O2*	A	R	38	9.421	55.602-104.103	1.00	44.28	O
ATOM	17852	*HO2	A	R	38	9.647	55.955-104.999	1.00	44.28	H
ATOM	17853	C1*	A	R	38	10.329	53.703-102.833	1.00	42.33	C
ATOM	17854	H1*	A	R	38	9.795	53.060-103.534	1.00	42.33	H
ATOM	17855	N9	A	R	38	9.499	53.815-101.599	1.00	35.27	N
ATOM	17856	C8	A	R	38	8.890	54.944-101.098	1.00	37.36	C
ATOM	17857	H8	A	R	38	9.111	55.934-101.473	1.00	37.36	H
ATOM	17858	N7	A	R	38	8.002	54.727-100.161	1.00	33.55	N
ATOM	17859	C5	A	R	38	8.017	53.333-100.042	1.00	26.54	C
ATOM	17860	C6	A	R	38	7.260	52.404 -99.288	1.00	24.62	C
ATOM	17861	N6	A	R	38	6.243	52.722 -98.503	1.00	22.16	N
ATOM	17862	1H6	A	R	38	5.664	51.963 -98.178	1.00	22.16	H
ATOM	17863	2H6	A	R	38	5.911	53.673 -98.554	1.00	22.16	H
ATOM	17864	N1	A	R	38	7.485	51.094 -99.370	1.00	22.57	N
ATOM	17865	C2	A	R	38	8.430	50.694-100.208	1.00	23.37	C
ATOM	17866	H2	A	R	38	8.587	49.626-100.264	1.00	23.37	H
ATOM	17867	N3	A	R	38	9.179	51.428-101.022	1.00	33.75	N
ATOM	17868	C4	A	R	38	8.937	52.768-100.889	1.00	29.46	C
ATOM	17869	P	A	R	40	11.023	55.311-106.995	1.00	47.33	P
ATOM	17870	O1P	A	R	40	12.362	55.618-107.535	1.00	45.15	O
ATOM	17871	O2P	A	R	40	10.158	56.390-106.488	1.00	49.44	O
ATOM	17872	O5*	A	R	40	10.215	54.455-108.069	1.00	51.90	O
ATOM	17873	C5*	A	R	40	10.859	53.449-108.827	1.00	42.25	C
ATOM	17874	1H5*	A	R	40	11.560	52.902-108.195	1.00	42.25	H
ATOM	17875	2H5*	A	R	40	11.422	53.930-109.628	1.00	42.25	H
ATOM	17876	C4*	A	R	40	9.859	52.459-109.443	1.00	46.71	C
ATOM	17877	H4*	A	R	40	10.376	51.888-110.212	1.00	46.71	H
ATOM	17878	O4*	A	R	40	9.401	51.563-108.438	1.00	49.29	O
ATOM	17879	C3*	A	R	40	8.640	53.143-110.080	1.00	51.82	C
ATOM	17880	H3*	A	R	40	8.864	54.194-110.262	1.00	51.82	H
ATOM	17881	O3*	A	R	40	8.306	52.548-111.343	1.00	55.23	O
ATOM	17882	C2*	A	R	40	7.616	53.058-108.931	1.00	47.37	C
ATOM	17883	H2*	A	R	40	7.789	53.898-108.255	1.00	47.37	H
ATOM	17884	O2*	A	R	40	6.261	53.083-109.350	1.00	54.80	O
ATOM	17885	*HO2	A	R	40	6.143	52.335-109.981	1.00	54.80	H
ATOM	17886	C1*	A	R	40	8.006	51.755-108.225	1.00	45.71	C
ATOM	17887	H1*	A	R	40	7.455	50.932-108.687	1.00	45.71	H

ATOM	17888	N9	A	R	40	7.716	51.749-106.776	1.00	41.12	N
ATOM	17889	C8	A	R	40	8.148	52.627-105.810	1.00	45.70	C
ATOM	17890	H8	A	R	40	8.748	53.500-106.036	1.00	45.70	H
ATOM	17891	N7	A	R	40	7.804	52.295-104.593	1.00	38.84	N
ATOM	17892	C5	A	R	40	7.064	51.123-104.781	1.00	31.14	C
ATOM	17893	C6	A	R	40	6.416	50.216-103.914	1.00	31.35	C
ATOM	17894	N6	A	R	40	6.436	50.307-102.600	1.00	28.71	N
ATOM	17895	1H6	A	R	40	5.964	49.605-102.055	1.00	28.71	H
ATOM	17896	2H6	A	R	40	6.959	51.069-102.198	1.00	28.71	H
ATOM	17897	N1	A	R	40	5.755	49.159-104.379	1.00	27.20	N
ATOM	17898	C2	A	R	40	5.720	48.996-105.695	1.00	32.72	C
ATOM	17899	H2	A	R	40	5.167	48.137-106.049	1.00	32.72	H
ATOM	17900	N3	A	R	40	6.307	49.729-106.637	1.00	35.81	N
ATOM	17901	C4	A	R	40	6.974	50.798-106.108	1.00	35.96	C
ATOM	17902	F	A	R	41	7.731	51.071-111.517	1.00	45.21	F
ATOM	17903	O1P	A	R	41	6.408	50.999-110.882	1.00	44.19	O
ATOM	17904	O2P	A	R	41	8.738	50.068-111.109	1.00	50.89	O
ATOM	17905	O5*	A	R	41	7.447	50.812-113.062	1.00	53.54	O
ATOM	17906	C5*	A	R	41	8.472	50.487-113.984	1.00	38.19	C
ATOM	17907	1H5*	A	R	41	9.266	49.918-113.500	1.00	38.19	H
ATOM	17908	2H5*	A	R	41	8.895	51.405-114.394	1.00	38.19	H
ATOM	17909	C4*	A	R	41	7.880	49.642-115.120	1.00	42.47	C
ATOM	17910	H4*	A	R	41	8.687	49.342-115.789	1.00	42.47	H
ATOM	17911	O4*	A	R	41	7.246	48.479-114.579	1.00	37.77	O
ATOM	17912	C3*	A	R	41	6.843	50.413-115.942	1.00	41.21	C
ATOM	17913	H3*	A	R	41	6.897	51.487-115.749	1.00	41.21	H
ATOM	17914	O3*	A	R	41	7.049	50.117-117.313	1.00	35.62	O
ATOM	17915	C2*	A	R	41	5.530	49.827-115.414	1.00	40.07	C
ATOM	17916	H2*	A	R	41	5.278	50.327-114.476	1.00	40.07	H
ATOM	17917	O2*	A	R	41	4.441	49.907-116.323	1.00	46.88	O
ATOM	17918	*HO2	A	R	41	4.688	50.524-117.056	1.00	46.88	H
ATOM	17919	C1*	A	R	41	5.943	48.379-115.144	1.00	37.36	C
ATOM	17920	H1*	A	R	41	6.001	47.873-116.112	1.00	37.36	H
ATOM	17921	N9	A	R	41	4.994	47.648-114.257	1.00	38.10	N
ATOM	17922	C8	A	R	41	3.694	47.975-113.940	1.00	37.40	C
ATOM	17923	H8	A	R	41	3.207	48.870-114.309	1.00	37.40	H
ATOM	17924	N7	A	R	41	3.107	47.129-113.133	1.00	40.51	N
ATOM	17925	C5	A	R	41	4.071	46.134-112.947	1.00	35.50	C
ATOM	17926	C6	A	R	41	4.131	44.926-112.209	1.00	37.32	C
ATOM	17927	N6	A	R	41	3.216	44.490-111.371	1.00	33.04	N
ATOM	17928	1H6	A	R	41	3.423	43.633-110.881	1.00	33.04	H
ATOM	17929	2H6	A	R	41	2.577	45.180-110.963	1.00	33.04	H
ATOM	17930	N1	A	R	41	5.213	44.151-112.232	1.00	30.30	N
ATOM	17931	C2	A	R	41	6.249	44.566-112.944	1.00	36.94	C
ATOM	17932	H2	A	R	41	7.120	43.927-112.934	1.00	36.94	H
ATOM	17933	N3	A	R	41	6.370	45.701-113.624	1.00	38.70	N
ATOM	17934	C4	A	R	41	5.218	46.435-113.632	1.00	38.91	C
ATOM	17935	F	A	R	42	6.729	51.239-118.390	1.00	45.07	F
ATOM	17936	O1P	A	R	42	7.699	52.326-118.169	1.00	41.06	O
ATOM	17937	O2P	A	R	42	5.279	51.493-118.281	1.00	43.44	O
ATOM	17938	O5*	A	R	42	7.048	50.525-119.788	1.00	41.78	O
ATOM	17939	C5*	A	R	42	6.025	49.895-120.542	1.00	33.45	C
ATOM	17940	1H5*	A	R	42	5.312	50.657-120.860	1.00	33.45	H
ATOM	17941	2H5*	A	R	42	5.494	49.183-119.907	1.00	33.45	H
ATOM	17942	C4*	A	R	42	6.549	49.164-121.795	1.00	33.17	C
ATOM	17943	H4*	A	R	42	5.684	48.831-122.367	1.00	33.17	H
ATOM	17944	O4*	A	R	42	7.352	50.023-122.604	1.00	34.17	O
ATOM	17945	C3*	A	R	42	7.407	47.940-121.466	1.00	36.53	C
ATOM	17946	H3*	A	R	42	7.103	47.505-120.511	1.00	36.53	H
ATOM	17947	O3*	A	R	42	7.314	46.980-122.513	1.00	34.16	O
ATOM	17948	C2*	A	R	42	8.791	48.593-121.349	1.00	38.36	C
ATOM	17949	H2*	A	R	42	8.887	48.947-120.321	1.00	38.36	H
ATOM	17950	O2*	A	R	42	9.886	47.748-121.674	1.00	38.34	O
ATOM	17951	*HO2	A	R	42	9.555	46.816-121.635	1.00	38.34	H
ATOM	17952	C1*	A	R	42	8.726	49.783-122.316	1.00	32.44	C
ATOM	17953	H1*	A	R	42	9.199	49.472-123.241	1.00	32.44	H
ATOM	17954	N9	A	R	42	9.474	50.973-121.822	1.00	34.98	N
ATOM	17955	C8	A	R	42	10.445	51.020-120.844	1.00	32.95	C
ATOM	17956	H8	A	R	42	10.693	50.163-120.234	1.00	32.95	H
ATOM	17957	N7	A	R	42	11.068	52.165-120.732	1.00	35.41	N
ATOM	17958	C5	A	R	42	10.412	52.954-121.684	1.00	32.51	C
ATOM	17959	C6	A	R	42	10.523	54.303-122.086	1.00	38.64	C
ATOM	17960	N6	A	R	42	11.324	55.185-121.524	1.00	37.87	N
ATOM	17961	1H6	A	R	42	11.197	56.132-121.816	1.00	37.87	H
ATOM	17962	2H6	A	R	42	11.770	54.897-120.670	1.00	37.87	H
ATOM	17963	N1	A	R	42	9.811	54.808-123.091	1.00	41.29	N
ATOM	17964	C2	A	R	42	8.954	53.986-123.681	1.00	35.13	C

ATOM	17965	H2	A	R	42	8.380	54.405-124.496	1.00	35.13	H
ATOM	17966	N3	A	R	42	8.730	52.705-123.422	1.00	34.65	N
ATOM	17967	C4	A	R	42	9.473	52.237-122.377	1.00	34.12	C
ATOM	17968	P	A	R	43	7.539	45.440-122.185	1.00	43.49	P
ATOM	17969	O1P	A	R	43	6.485	44.970-121.279	1.00	37.32	O
ATOM	17970	O2P	A	R	43	8.953	45.312-121.773	1.00	37.37	O
ATOM	17971	O5*	A	R	43	7.373	44.642-123.566	1.00	44.00	O
ATOM	17972	C5*	A	R	43	7.798	43.290-123.615	1.00	40.52	C
ATOM	17973	1H5*	A	R	43	7.941	42.925-122.597	1.00	40.52	H
ATOM	17974	2H5*	A	R	43	8.766	43.249-124.109	1.00	40.52	H
ATOM	17975	C4*	A	R	43	6.856	42.321-124.345	1.00	43.37	C
ATOM	17976	H4*	A	R	43	7.153	42.282-125.391	1.00	43.37	H
ATOM	17977	O4*	A	R	43	7.005	41.042-123.734	1.00	42.04	O
ATOM	17978	C3*	A	R	43	5.357	42.615-124.281	1.00	46.42	C
ATOM	17979	H3*	A	R	43	5.143	43.684-124.312	1.00	46.42	H
ATOM	17980	O3*	A	R	43	4.780	41.931-125.379	1.00	56.99	O
ATOM	17981	C2*	A	R	43	4.965	42.011-122.928	1.00	45.41	C
ATOM	17982	H2*	A	R	43	5.145	42.759-122.153	1.00	45.41	H
ATOM	17983	O2*	A	R	43	3.617	41.562-122.874	1.00	44.28	O
ATOM	17984	*HO2	A	R	43	3.120	42.016-123.600	1.00	44.28	H
ATOM	17985	C1*	A	R	43	5.937	40.832-122.806	1.00	42.33	C
ATOM	17986	H1*	A	R	43	5.390	39.938-123.117	1.00	42.33	H
ATOM	17987	N9	A	R	43	6.461	40.605-121.431	1.00	35.27	N
ATOM	17988	C8	A	R	43	6.791	41.513-120.445	1.00	37.36	C
ATOM	17989	H8	A	R	43	6.660	42.584-120.559	1.00	37.36	H
ATOM	17990	N7	A	R	43	7.317	40.974-119.371	1.00	33.55	N
ATOM	17991	C5	A	R	43	7.290	39.604-119.656	1.00	26.54	C
ATOM	17992	C6	A	R	43	7.698	38.435-118.969	1.00	24.62	C
ATOM	17993	N6	A	R	43	8.241	38.426-117.767	1.00	22.16	N
ATOM	17994	1H6	A	R	43	8.459	37.542-117.353	1.00	22.16	H
ATOM	17995	2H6	A	R	43	8.322	39.310-117.290	1.00	22.16	H
ATOM	17996	N1	A	R	43	7.570	37.215-119.499	1.00	22.57	N
ATOM	17997	C2	A	R	43	7.005	37.156-120.701	1.00	23.37	C
ATOM	17998	H2	A	R	43	6.912	36.169-121.128	1.00	23.37	H
ATOM	17999	N3	A	R	43	6.564	38.149-121.461	1.00	33.75	N
ATOM	18000	C4	A	R	43	6.743	39.370-120.887	1.00	29.46	C
ATOM	18001	P	A	R	45	3.461	42.479-126.061	1.00	47.33	P
ATOM	18002	O1P	A	R	45	3.857	43.622-126.904	1.00	45.15	O
ATOM	18003	O2P	A	R	45	2.468	42.641-124.982	1.00	49.44	O
ATOM	18004	O5*	A	R	45	3.027	41.256-126.996	1.00	51.90	O
ATOM	18005	C5*	A	R	45	2.525	40.051-126.449	1.00	42.25	C
ATOM	18006	1H5*	A	R	45	1.574	39.836-126.934	1.00	42.25	H
ATOM	18007	2H5*	A	R	45	2.350	40.150-125.376	1.00	42.25	H
ATOM	18008	C4*	A	R	45	3.524	38.910-126.705	1.00	46.71	C
ATOM	18009	H4*	A	R	45	4.198	39.222-127.503	1.00	46.71	H
ATOM	18010	O4*	A	R	45	4.274	38.618-125.520	1.00	49.29	O
ATOM	18011	C3*	A	R	45	2.824	37.605-127.116	1.00	51.82	C
ATOM	18012	H3*	A	R	45	1.898	37.794-127.662	1.00	51.82	H
ATOM	18013	O3*	A	R	45	3.765	36.907-127.923	1.00	55.23	O
ATOM	18014	C2*	A	R	45	2.555	37.034-125.716	1.00	47.37	C
ATOM	18015	H2*	A	R	45	1.776	37.631-125.239	1.00	47.37	H
ATOM	18016	O2*	A	R	45	2.175	35.669-125.650	1.00	54.80	O
ATOM	18017	*HO2	A	R	45	2.497	35.205-126.461	1.00	54.80	H
ATOM	18018	C1*	A	R	45	3.886	37.337-125.038	1.00	45.71	C
ATOM	18019	H1*	A	R	45	4.611	36.588-125.360	1.00	45.71	H
ATOM	18020	N9	A	R	45	3.769	37.298-123.565	1.00	41.12	N
ATOM	18021	C8	A	R	45	3.132	38.186-122.728	1.00	45.70	C
ATOM	18022	H8	A	R	45	2.718	39.125-123.077	1.00	45.70	H
ATOM	18023	N7	A	R	45	3.054	37.791-121.483	1.00	38.84	N
ATOM	18024	C5	A	R	45	3.730	36.566-121.504	1.00	31.14	C
ATOM	18025	C6	A	R	45	4.069	35.610-120.521	1.00	31.35	C
ATOM	18026	N6	A	R	45	3.787	35.721-119.240	1.00	28.71	N
ATOM	18027	1H6	A	R	45	4.108	34.993-118.635	1.00	28.71	H
ATOM	18028	2H6	A	R	45	3.319	36.560-118.939	1.00	28.71	H
ATOM	18029	N1	A	R	45	4.748	34.505-120.822	1.00	27.20	N
ATOM	18030	C2	A	R	45	5.088	34.327-122.091	1.00	32.72	C
ATOM	18031	H2	A	R	45	5.629	33.418-122.311	1.00	32.72	H
ATOM	18032	N3	A	R	45	4.869	35.133-123.126	1.00	35.81	N
ATOM	18033	C4	A	R	45	4.177	36.257-122.760	1.00	35.96	C
ATOM	18034	P	A	R	46	3.403	35.607-128.757	1.00	45.21	P
ATOM	18035	O1P	A	R	46	3.017	34.558-127.797	1.00	44.19	O
ATOM	18036	O2P	A	R	46	4.562	35.324-129.623	1.00	50.89	O
ATOM	18037	O5*	A	R	46	2.125	35.954-129.650	1.00	53.54	O
ATOM	18038	C5*	A	R	46	2.244	36.540-130.936	1.00	38.19	C
ATOM	18039	1H5*	A	R	46	3.248	36.943-131.080	1.00	38.19	H
ATOM	18040	2H5*	A	R	46	1.538	37.368-131.009	1.00	38.19	H
ATOM	18041	C4*	A	R	46	1.946	35.538-132.068	1.00	42.47	C

ATOM	18042	H4*	A	R	46	2.082	36.076-133.007	1.00	42.47	H
ATOM	18043	O4*	A	R	46	2.862	34.440-132.042	1.00	37.77	O
ATOM	18044	C3*	A	R	46	0.527	34.941-132.063	1.00	41.21	C
ATOM	18045	H3*	A	R	46	-0.199	35.591-131.572	1.00	41.21	H
ATOM	18046	O3*	A	R	46	0.246	34.762-133.445	1.00	35.62	O
ATOM	18047	C2*	A	R	46	0.797	33.643-131.277	1.00	40.07	C
ATOM	18048	H2*	A	R	46	0.960	33.897-130.229	1.00	40.07	H
ATOM	18049	O2*	A	R	46	-0.178	32.613-131.350	1.00	46.88	O
ATOM	18050	*HO2	A	R	46	-0.736	32.761-132.159	1.00	46.88	H
ATOM	18051	C1*	A	R	46	2.119	33.235-131.917	1.00	37.36	C
ATOM	18052	H1*	A	R	46	1.897	32.852-132.916	1.00	37.36	H
ATOM	18053	N9	A	R	46	2.889	32.211-131.172	1.00	38.10	N
ATOM	18054	C8	A	R	46	3.002	32.002-129.817	1.00	37.40	C
ATOM	18055	H8	A	R	46	2.457	32.600-129.096	1.00	37.40	H
ATOM	18056	N7	A	R	46	3.860	31.060-129.481	1.00	40.51	N
ATOM	18057	C5	A	R	46	4.286	30.573-130.730	1.00	35.50	C
ATOM	18058	C6	A	R	46	5.181	29.565-131.169	1.00	37.32	C
ATOM	18059	N6	A	R	46	5.936	28.805-130.398	1.00	33.04	N
ATOM	18060	1H6	A	R	46	6.484	28.107-130.865	1.00	33.04	H
ATOM	18061	2H6	A	R	46	5.963	28.938-129.398	1.00	33.04	H
ATOM	18062	N1	A	R	46	5.362	29.303-132.462	1.00	30.30	N
ATOM	18063	C2	A	R	46	4.646	29.999-133.338	1.00	36.94	C
ATOM	18064	H2	A	R	46	4.799	29.761-134.382	1.00	36.94	H
ATOM	18065	N3	A	R	46	3.796	30.982-133.085	1.00	38.70	N
ATOM	18066	C4	A	R	46	3.661	31.235-131.754	1.00	38.91	C
ATOM	18067	P	A	R	47	-1.186	34.369-134.023	1.00	45.07	P
ATOM	18068	O1P	A	R	47	-2.082	35.528-133.904	1.00	41.06	O
ATOM	18069	O2P	A	R	47	-1.558	33.062-133.448	1.00	43.44	O
ATOM	18070	O5*	A	R	47	-0.769	34.145-135.555	1.00	41.78	O
ATOM	18071	C5*	A	R	47	0.264	33.225-135.870	1.00	33.45	C
ATOM	18072	1H5*	A	R	47	-0.025	32.232-135.522	1.00	33.45	H
ATOM	18073	2H5*	A	R	47	1.163	33.511-135.324	1.00	33.45	H
ATOM	18074	C4*	A	R	47	0.589	33.145-137.373	1.00	33.17	C
ATOM	18075	H4*	A	R	47	-0.016	32.354-137.812	1.00	33.17	H
ATOM	18076	O4*	A	R	47	0.356	34.369-138.067	1.00	34.17	O
ATOM	18077	C3*	A	R	47	2.079	32.832-137.570	1.00	36.53	C
ATOM	18078	H3*	A	R	47	2.468	32.207-136.763	1.00	36.53	H
ATOM	18079	O3*	A	R	47	2.225	32.199-138.830	1.00	34.16	O
ATOM	18080	C2*	A	R	47	2.675	34.250-137.520	1.00	38.36	C
ATOM	18081	H2*	A	R	47	2.736	34.582-136.482	1.00	38.36	H
ATOM	18082	O2*	A	R	47	3.945	34.395-138.144	1.00	38.34	O
ATOM	18083	*HO2	A	R	47	4.198	33.543-138.572	1.00	38.34	H
ATOM	18084	C1*	A	R	47	1.592	35.044-138.247	1.00	32.44	C
ATOM	18085	H1*	A	R	47	1.844	35.032-139.303	1.00	32.44	H
ATOM	18086	N9	A	R	47	1.493	36.456-137.832	1.00	34.98	N
ATOM	18087	C8	A	R	47	0.975	36.994-136.675	1.00	32.95	C
ATOM	18088	H8	A	R	47	0.551	36.388-135.882	1.00	32.95	H
ATOM	18089	N7	A	R	47	1.033	38.303-136.629	1.00	35.41	N
ATOM	18090	C5	A	R	47	1.609	38.639-137.861	1.00	32.51	C
ATOM	18091	C6	A	R	47	1.939	39.853-138.504	1.00	38.64	C
ATOM	18092	N6	A	R	47	1.749	41.047-137.977	1.00	37.87	N
ATOM	18093	1H6	A	R	47	2.034	41.844-138.505	1.00	37.87	H
ATOM	18094	2H6	A	R	47	1.333	41.082-137.059	1.00	37.87	H
ATOM	18095	N1	A	R	47	2.488	39.882-139.723	1.00	41.29	N
ATOM	18096	C2	A	R	47	2.733	38.708-140.290	1.00	35.13	C
ATOM	18097	H2	A	R	47	3.188	38.748-141.268	1.00	35.13	H
ATOM	18098	N3	A	R	47	2.485	37.492-139.831	1.00	34.65	N
ATOM	18099	C4	A	R	47	1.905	37.524-138.593	1.00	34.12	C
ATOM	18100	P	A	R	48	3.482	31.271-139.132	1.00	43.49	P
ATOM	18101	O1P	A	R	48	3.558	30.258-138.067	1.00	37.32	O
ATOM	18102	O2P	A	R	48	4.624	32.175-139.399	1.00	37.37	O
ATOM	18103	O5*	A	R	48	2.992	30.572-140.492	1.00	44.00	O
ATOM	18104	C5*	A	R	48	1.988	29.576-140.426	1.00	40.52	C
ATOM	18105	1H5*	A	R	48	1.125	29.993-139.904	1.00	40.52	H
ATOM	18106	2H5*	A	R	48	2.368	28.737-139.840	1.00	40.52	H
ATOM	18107	C4*	A	R	48	1.543	29.077-141.811	1.00	43.37	C
ATOM	18108	H4*	A	R	48	1.398	29.934-142.469	1.00	43.37	H
ATOM	18109	O4*	A	R	48	2.537	28.202-142.356	1.00	42.04	O
ATOM	18110	C3*	A	R	48	0.233	28.262-141.707	1.00	46.42	C
ATOM	18111	H3*	A	R	48	-0.376	28.588-140.863	1.00	46.42	H
ATOM	18112	O3*	A	R	48	-0.476	28.482-142.932	1.00	56.99	O
ATOM	18113	C2*	A	R	48	0.858	26.887-141.422	1.00	45.41	C
ATOM	18114	H2*	A	R	48	1.303	26.919-140.427	1.00	45.41	H
ATOM	18115	O2*	A	R	48	-0.024	25.780-141.447	1.00	44.28	O
ATOM	18116	*HO2	A	R	48	-0.887	26.081-141.823	1.00	44.28	H
ATOM	18117	C1*	A	R	48	1.982	26.895-142.455	1.00	42.33	C
ATOM	18118	H1*	A	R	48	1.540	26.755-143.445	1.00	42.33	H

ATOM	18119	N9	A	R	48	3.023	25.863-142.248	1.00	35.27	N
ATOM	18120	C8	A	R	48	3.435	25.260-141.082	1.00	37.36	C
ATOM	18121	H8	A	R	48	3.043	25.535-140.112	1.00	37.36	H
ATOM	18122	N7	A	R	48	4.347	24.335-141.239	1.00	33.55	N
ATOM	18123	C5	A	R	48	4.526	24.316-142.628	1.00	26.54	C
ATOM	18124	C6	A	R	48	5.344	23.575-143.509	1.00	24.62	C
ATOM	18125	N6	A	R	48	6.235	22.693-143.099	1.00	22.16	N
ATOM	18126	1H6	A	R	48	6.850	22.284-143.765	1.00	22.16	H
ATOM	18127	2H6	A	R	48	6.307	22.564-142.101	1.00	22.16	H
ATOM	18128	N1	A	R	48	5.299	23.742-144.837	1.00	22.57	N
ATOM	18129	C2	A	R	48	4.450	24.663-145.288	1.00	23.37	C
ATOM	18130	H2	A	R	48	4.417	24.791-146.361	1.00	23.37	H
ATOM	18131	N3	A	R	48	3.653	25.462-144.595	1.00	33.75	N
ATOM	18132	C4	A	R	48	3.728	25.235-143.250	1.00	29.46	C
ATOM	18133	F	A	R	50	-1.588	27.506-143.565	1.00	47.33	F
ATOM	18134	O1P	A	R	50	-2.429	28.291-144.498	1.00	45.15	O
ATOM	18135	O2P	A	R	50	-2.202	26.736-142.467	1.00	49.44	O
ATOM	18136	O5*	A	R	50	-0.668	26.527-144.426	1.00	51.90	O
ATOM	18137	C5*	A	R	50	-1.038	25.194-144.733	1.00	42.25	C
ATOM	18138	1H5*	A	R	50	-1.698	25.200-145.601	1.00	42.25	H
ATOM	18139	2H5*	A	R	50	-1.544	24.726-143.888	1.00	42.25	H
ATOM	18140	C4*	A	R	50	0.248	24.423-145.059	1.00	46.71	C
ATOM	18141	H4*	A	R	50	0.863	25.054-145.703	1.00	46.71	H
ATOM	18142	O4*	A	R	50	0.950	24.181-143.843	1.00	49.29	O
ATOM	18143	C3*	A	R	50	0.050	23.051-145.742	1.00	51.82	C
ATOM	18144	H3*	A	R	50	-0.935	22.974-146.202	1.00	51.82	H
ATOM	18145	O3*	A	R	50	1.075	23.039-146.746	1.00	55.23	O
ATOM	18146	C2*	A	R	50	0.149	22.152-144.490	1.00	47.37	C
ATOM	18147	H2*	A	R	50	-0.749	22.298-143.887	1.00	47.37	H
ATOM	18148	O2*	A	R	50	0.314	20.764-144.710	1.00	54.80	O
ATOM	18149	*HO2	A	R	50	1.167	20.663-145.192	1.00	54.80	H
ATOM	18150	C1*	A	R	50	1.317	22.821-143.784	1.00	45.71	C
ATOM	18151	H1*	A	R	50	2.233	22.655-144.354	1.00	45.71	H
ATOM	18152	N9	A	R	50	1.528	22.375-142.391	1.00	41.12	N
ATOM	18153	C8	A	R	50	0.811	22.698-141.264	1.00	45.70	C
ATOM	18154	H8	A	R	50	-0.055	23.344-141.295	1.00	45.70	H
ATOM	18155	N7	A	R	50	1.271	22.169-140.158	1.00	38.84	N
ATOM	18156	C5	A	R	50	2.392	21.454-140.604	1.00	31.14	C
ATOM	18157	C6	A	R	50	3.391	20.679-139.973	1.00	31.35	C
ATOM	18158	N6	A	R	50	3.485	20.486-138.673	1.00	28.71	N
ATOM	18159	1H6	A	R	50	4.291	19.987-138.354	1.00	28.71	H
ATOM	18160	2H6	A	R	50	2.850	20.996-138.085	1.00	28.71	H
ATOM	18161	N1	A	R	50	4.349	20.064-140.665	1.00	27.20	N
ATOM	18162	C2	A	R	50	4.342	20.232-141.978	1.00	32.72	C
ATOM	18163	H2	A	R	50	5.128	19.726-142.520	1.00	32.72	H
ATOM	18164	N3	A	R	50	3.508	20.951-142.717	1.00	35.81	N
ATOM	18165	C4	A	R	50	2.539	21.548-141.961	1.00	35.96	C
ATOM	18166	P	A	R	51	1.916	21.779-147.248	1.00	45.21	P
ATOM	18167	O1P	A	R	51	2.489	21.098-146.074	1.00	44.19	O
ATOM	18168	O2P	A	R	51	2.887	22.258-148.241	1.00	50.89	O
ATOM	18169	O5*	A	R	51	0.941	20.726-147.933	1.00	53.54	O
ATOM	18170	C5*	A	R	51	0.555	20.771-149.295	1.00	38.19	C
ATOM	18171	1H5*	A	R	51	1.314	21.268-149.903	1.00	38.19	H
ATOM	18172	2H5*	A	R	51	-0.371	21.342-149.369	1.00	38.19	H
ATOM	18173	C4*	A	R	51	0.310	19.351-149.857	1.00	42.47	C
ATOM	18174	H4*	A	R	51	-0.367	19.457-150.703	1.00	42.47	H
ATOM	18175	O4*	A	R	51	1.516	18.753-150.326	1.00	37.77	O
ATOM	18176	C3*	A	R	51	-0.310	18.364-148.856	1.00	41.21	C
ATOM	18177	H3*	A	R	51	-0.818	18.920-148.069	1.00	41.21	H
ATOM	18178	O3*	A	R	51	-1.319	17.596-149.538	1.00	35.62	O
ATOM	18179	C2*	A	R	51	0.967	17.737-148.246	1.00	40.07	C
ATOM	18180	H2*	A	R	51	1.323	18.409-147.464	1.00	40.07	H
ATOM	18181	O2*	A	R	51	0.809	16.463-147.645	1.00	46.88	O
ATOM	18182	*HO2	A	R	51	0.251	15.905-148.248	1.00	46.88	H
ATOM	18183	C1*	A	R	51	1.986	17.780-149.392	1.00	37.36	C
ATOM	18184	H1*	A	R	51	2.004	16.795-149.867	1.00	37.36	H
ATOM	18185	N9	A	R	51	3.361	18.170-148.975	1.00	38.10	N
ATOM	18186	C8	A	R	51	3.955	19.405-149.104	1.00	37.40	C
ATOM	18187	H8	A	R	51	3.418	20.267-149.480	1.00	37.40	H
ATOM	18188	N7	A	R	51	5.222	19.444-148.772	1.00	40.51	N
ATOM	18189	C5	A	R	51	5.484	18.123-148.406	1.00	35.50	C
ATOM	18190	C6	A	R	51	6.654	17.432-148.017	1.00	37.32	C
ATOM	18191	N6	A	R	51	7.849	17.991-147.971	1.00	33.04	N
ATOM	18192	1H6	A	R	51	8.685	17.416-147.983	1.00	33.04	H
ATOM	18193	2H6	A	R	51	7.928	18.952-148.261	1.00	33.04	H
ATOM	18194	N1	A	R	51	6.627	16.140-147.683	1.00	30.30	N
ATOM	18195	C2	A	R	51	5.459	15.517-147.819	1.00	36.94	C

ATOM	18196	H2	A	R	51	5.453	14.466-147.569	1.00	36.94	H
ATOM	18197	N3	A	R	51	4.302	16.010-148.233	1.00	38.70	N
ATOM	18198	C4	A	R	51	4.363	17.343-148.506	1.00	38.91	C
ATOM	18199	P	A	R	52	-1.144	16.175-150.278	1.00	45.07	P
ATOM	18200	O1P	A	R	52	-2.407	15.890-150.990	1.00	41.06	O
ATOM	18201	O2P	A	R	52	-0.644	15.204-149.289	1.00	43.44	O
ATOM	18202	O5*	A	R	52	-0.012	16.381-151.385	1.00	41.78	O
ATOM	18203	C5*	A	R	52	-0.221	17.179-152.537	1.00	33.45	C
ATOM	18204	1H5*	A	R	52	0.739	17.611-152.811	1.00	33.45	H
ATOM	18205	2H5*	A	R	52	-0.905	17.996-152.307	1.00	33.45	H
ATOM	18206	C4*	A	R	52	-0.789	16.394-153.732	1.00	33.17	C
ATOM	18207	H4*	A	R	52	-1.812	16.111-153.506	1.00	33.17	H
ATOM	18208	O4*	A	R	52	-0.739	17.223-154.893	1.00	34.17	O
ATOM	18209	C3*	A	R	52	0.019	15.141-154.084	1.00	36.53	C
ATOM	18210	H3*	A	R	52	0.386	14.633-153.190	1.00	36.53	H
ATOM	18211	O3*	A	R	52	-0.776	14.281-154.891	1.00	34.16	O
ATOM	18212	C2*	A	R	52	1.157	15.781-154.889	1.00	38.36	C
ATOM	18213	H2*	A	R	52	1.863	16.258-154.206	1.00	38.36	H
ATOM	18214	O2*	A	R	52	1.836	14.883-155.755	1.00	38.34	O
ATOM	18215	*HO2	A	R	52	1.561	13.965-155.507	1.00	38.34	H
ATOM	18216	C1*	A	R	52	0.386	16.836-155.680	1.00	32.44	C
ATOM	18217	H1*	A	R	52	0.024	16.313-156.564	1.00	32.44	H
ATOM	18218	N9	A	R	52	1.263	17.956-156.110	1.00	34.98	N
ATOM	18219	C8	A	R	52	2.101	17.955-157.199	1.00	32.95	C
ATOM	18220	H8	A	R	52	2.126	17.134-157.905	1.00	32.95	H
ATOM	18221	N7	A	R	52	2.869	19.011-157.300	1.00	35.41	N
ATOM	18222	C5	A	R	52	2.535	19.749-156.154	1.00	32.51	C
ATOM	18223	C6	A	R	52	3.024	20.939-155.556	1.00	38.64	C
ATOM	18224	N6	A	R	52	4.020	21.668-156.014	1.00	37.87	N
ATOM	18225	1H6	A	R	52	4.325	22.441-155.429	1.00	37.87	H
ATOM	18226	2H6	A	R	52	4.496	21.377-156.845	1.00	37.87	H
ATOM	18227	N1	A	R	52	2.501	21.417-154.434	1.00	41.29	N
ATOM	18228	C2	A	R	52	1.504	20.747-153.882	1.00	35.13	C
ATOM	18229	H2	A	R	52	1.093	21.165-152.974	1.00	35.13	H
ATOM	18230	N3	A	R	52	0.948	19.621-154.312	1.00	34.65	N
ATOM	18231	C4	A	R	52	1.524	19.144-155.452	1.00	34.12	C
ATOM	18232	P	A	R	53	-0.524	12.709-154.857	1.00	43.49	P
ATOM	18233	O1P	A	R	53	-1.255	12.158-153.699	1.00	37.32	O
ATOM	18234	O2P	A	R	53	0.935	12.516-154.991	1.00	37.37	O
ATOM	18235	O5*	A	R	53	-1.220	12.198-156.197	1.00	44.00	O
ATOM	18236	C5*	A	R	53	-2.626	12.210-156.332	1.00	40.52	C
ATOM	18237	1H5*	A	R	53	-2.970	13.243-156.367	1.00	40.52	H
ATOM	18238	2H5*	A	R	53	-3.089	11.716-155.475	1.00	40.52	H
ATOM	18239	C4*	A	R	53	-3.000	11.471-157.619	1.00	43.37	C
ATOM	18240	H4*	A	R	53	-2.077	11.249-158.160	1.00	43.37	H
ATOM	18241	O4*	A	R	53	-3.682	10.253-157.297	1.00	42.04	O
ATOM	18242	C3*	A	R	53	-3.935	12.265-158.552	1.00	46.42	C
ATOM	18243	H3*	A	R	53	-3.886	13.339-158.374	1.00	46.42	H
ATOM	18244	O3*	A	R	53	-3.499	11.933-159.880	1.00	56.99	O
ATOM	18245	C2*	A	R	53	-5.276	11.666-158.083	1.00	45.41	C
ATOM	18246	H2*	A	R	53	-5.458	11.965-157.046	1.00	45.41	H
ATOM	18247	O2*	A	R	53	-6.405	12.014-158.873	1.00	44.28	O
ATOM	18248	*HO2	A	R	53	-6.057	12.642-159.558	1.00	44.28	H
ATOM	18249	C1*	A	R	53	-4.830	10.208-158.117	1.00	42.33	C
ATOM	18250	H1*	A	R	53	-4.515	9.963-159.135	1.00	42.33	H
ATOM	18251	N9	A	R	53	-5.821	9.196-157.694	1.00	35.27	N
ATOM	18252	C8	A	R	53	-6.188	8.080-158.405	1.00	37.36	C
ATOM	18253	H8	A	R	53	-5.716	7.824-159.346	1.00	37.36	H
ATOM	18254	N7	A	R	53	-7.148	7.373-157.863	1.00	33.55	N
ATOM	18255	C5	A	R	53	-7.393	8.069-156.667	1.00	26.54	C
ATOM	18256	C6	A	R	53	-8.257	7.877-155.564	1.00	24.62	C
ATOM	18257	N6	A	R	53	-9.105	6.877-155.434	1.00	22.16	N
ATOM	18258	1H6	A	R	53	-9.640	6.875-154.587	1.00	22.16	H
ATOM	18259	2H6	A	R	53	-9.138	6.186-156.158	1.00	22.16	H
ATOM	18260	N1	A	R	53	-8.274	8.698-154.521	1.00	22.57	N
ATOM	18261	C2	A	R	53	-7.443	9.734-154.557	1.00	23.37	C
ATOM	18262	H2	A	R	53	-7.453	10.389-153.698	1.00	23.37	H
ATOM	18263	N3	A	R	53	-6.598	10.060-155.523	1.00	33.75	N
ATOM	18264	C4	A	R	53	-6.599	9.179-156.558	1.00	29.46	C
ATOM	18265	P	A	R	55	-4.390	12.057-161.189	1.00	47.33	P
ATOM	18266	O1P	A	R	55	-5.364	13.139-160.954	1.00	45.15	O
ATOM	18267	O2P	A	R	55	-4.956	10.714-161.458	1.00	49.44	O
ATOM	18268	O5*	A	R	55	-3.455	12.472-162.413	1.00	51.90	O
ATOM	18269	C5*	A	R	55	-2.655	11.523-163.106	1.00	42.25	C
ATOM	18270	1H5*	A	R	55	-2.766	11.702-164.175	1.00	42.25	H
ATOM	18271	2H5*	A	R	55	-2.993	10.508-162.899	1.00	42.25	H
ATOM	18272	C4*	A	R	55	-1.168	11.644-162.761	1.00	46.71	C

ATOM	18273	H4*	A	R	55	-0.841	12.665-162.957	1.00	46.71	H
ATOM	18274	O4*	A	R	55	-0.938	11.297-161.402	1.00	49.29	O
ATOM	18275	C3*	A	R	55	-0.340	10.659-163.596	1.00	51.82	C
ATOM	18276	H3*	A	R	55	-0.814	10.477-164.560	1.00	51.82	H
ATOM	18277	O3*	A	R	55	0.956	11.211-163.748	1.00	55.23	O
ATOM	18278	C2*	A	R	55	-0.390	9.389-162.732	1.00	47.37	C
ATOM	18279	H2*	A	R	55	-1.329	8.874-162.931	1.00	47.37	H
ATOM	18280	O2*	A	R	55	0.693	8.483-162.914	1.00	54.80	O
ATOM	18281	*HO2	A	R	55	0.385	7.647-163.335	1.00	54.80	H
ATOM	18282	C1*	A	R	55	-0.405	9.983-161.323	1.00	45.71	C
ATOM	18283	H1*	A	R	55	0.630	10.053-160.977	1.00	45.71	H
ATOM	18284	N9	A	R	55	-1.189	9.187-160.350	1.00	41.12	N
ATOM	18285	C8	A	R	55	-2.433	8.614-160.483	1.00	45.70	C
ATOM	18286	H8	A	R	55	-3.008	8.686-161.395	1.00	45.70	H
ATOM	18287	N7	A	R	55	-2.872	7.996-159.414	1.00	38.84	N
ATOM	18288	C5	A	R	55	-1.828	8.216-158.493	1.00	31.14	C
ATOM	18289	C6	A	R	55	-1.619	7.939-157.119	1.00	31.35	C
ATOM	18290	N6	A	R	55	-2.500	7.402-156.302	1.00	28.71	N
ATOM	18291	1H6	A	R	55	-2.250	7.542-155.340	1.00	28.71	H
ATOM	18292	2H6	A	R	55	-3.449	7.398-156.622	1.00	28.71	H
ATOM	18293	N1	A	R	55	-0.504	8.284-156.487	1.00	27.20	N
ATOM	18294	C2	A	R	55	0.399	8.968-157.177	1.00	32.72	C
ATOM	18295	H2	A	R	55	1.288	9.263-156.637	1.00	32.72	H
ATOM	18296	N3	A	R	55	0.360	9.301-158.463	1.00	35.81	N
ATOM	18297	C4	A	R	55	-0.798	8.913-159.064	1.00	35.96	C
ATOM	18298	P	A	R	56	1.428	11.765-165.154	1.00	45.21	P
ATOM	18299	O1P	A	R	56	2.617	12.627-164.983	1.00	44.19	O
ATOM	18300	O2P	A	R	56	0.278	12.240-165.941	1.00	50.89	O
ATOM	18301	O5*	A	R	56	1.994	10.454-165.875	1.00	53.54	O
ATOM	18302	C5*	A	R	56	1.158	9.564-166.589	1.00	38.19	C
ATOM	18303	1H5*	A	R	56	0.713	10.062-167.448	1.00	38.19	H
ATOM	18304	2H5*	A	R	56	0.351	9.205-165.950	1.00	38.19	H
ATOM	18305	C4*	A	R	56	1.993	8.376-167.067	1.00	42.47	C
ATOM	18306	H4*	A	R	56	1.439	7.854-167.848	1.00	42.47	H
ATOM	18307	O4*	A	R	56	3.270	8.763-167.574	1.00	37.77	O
ATOM	18308	C3*	A	R	56	2.230	7.402-165.915	1.00	41.21	C
ATOM	18309	H3*	A	R	56	1.930	7.849-164.967	1.00	41.21	H
ATOM	18310	O3*	A	R	56	1.512	6.218-166.178	1.00	35.62	O
ATOM	18311	C2*	A	R	56	3.751	7.209-165.915	1.00	40.07	C
ATOM	18312	H2*	A	R	56	4.156	7.870-165.147	1.00	40.07	H
ATOM	18313	O2*	A	R	56	4.197	5.875-165.700	1.00	46.88	O
ATOM	18314	*HO2	A	R	56	3.504	5.418-165.158	1.00	46.88	H
ATOM	18315	C1*	A	R	56	4.166	7.699-167.302	1.00	37.36	C
ATOM	18316	H1*	A	R	56	4.004	6.890-168.017	1.00	37.36	H
ATOM	18317	N9	A	R	56	5.584	8.143-167.335	1.00	38.10	N
ATOM	18318	C8	A	R	56	6.574	7.889-166.413	1.00	37.40	C
ATOM	18319	H8	A	R	56	6.424	7.248-165.552	1.00	37.40	H
ATOM	18320	N7	A	R	56	7.689	8.533-166.629	1.00	40.51	N
ATOM	18321	C5	A	R	56	7.438	9.212-167.827	1.00	35.50	C
ATOM	18322	C6	A	R	56	8.165	10.121-168.631	1.00	37.32	C
ATOM	18323	N6	A	R	56	9.329	10.650-168.334	1.00	33.04	N
ATOM	18324	1H6	A	R	56	9.614	11.420-168.925	1.00	33.04	H
ATOM	18325	2H6	A	R	56	9.676	10.575-167.371	1.00	33.04	H
ATOM	18326	N1	A	R	56	7.674	10.591-169.772	1.00	30.30	N
ATOM	18327	C2	A	R	56	6.463	10.193-170.123	1.00	36.94	C
ATOM	18328	H2	A	R	56	6.098	10.575-171.064	1.00	36.94	H
ATOM	18329	N3	A	R	56	5.637	9.398-169.456	1.00	38.70	N
ATOM	18330	C4	A	R	56	6.182	8.932-168.297	1.00	38.91	C
ATOM	18331	P	A	R	57	1.016	5.341-164.962	1.00	45.07	P
ATOM	18332	O1P	A	R	57	0.112	6.179-164.150	1.00	41.06	O
ATOM	18333	O2P	A	R	57	2.227	4.731-164.376	1.00	43.44	O
ATOM	18334	O5*	A	R	57	0.174	4.219-165.715	1.00	41.78	O
ATOM	18335	C5*	A	R	57	0.824	3.217-166.472	1.00	33.45	C
ATOM	18336	1H5*	A	R	57	1.226	2.471-165.786	1.00	33.45	H
ATOM	18337	2H5*	A	R	57	1.657	3.657-167.024	1.00	33.45	H
ATOM	18338	C4*	A	R	57	-0.122	2.525-167.465	1.00	33.17	C
ATOM	18339	H4*	A	R	57	0.429	1.701-167.912	1.00	33.17	H
ATOM	18340	O4*	A	R	57	-1.272	2.026-166.789	1.00	34.17	O
ATOM	18341	C3*	A	R	57	-0.631	3.434-168.592	1.00	36.53	C
ATOM	18342	H3*	A	R	57	0.105	4.200-168.847	1.00	36.53	H
ATOM	18343	O3*	A	R	57	-0.967	2.614-169.712	1.00	34.16	O
ATOM	18344	C2*	A	R	57	-1.871	4.049-167.938	1.00	38.36	C
ATOM	18345	H2*	A	R	57	-1.571	4.849-167.260	1.00	38.36	H
ATOM	18346	O2*	A	R	57	-2.836	4.531-168.861	1.00	38.34	O
ATOM	18347	*HO2	A	R	57	-2.429	4.550-169.761	1.00	38.34	H
ATOM	18348	C1*	A	R	57	-2.382	2.835-167.163	1.00	32.44	C
ATOM	18349	H1*	A	R	57	-2.978	2.263-167.866	1.00	32.44	H



ATOM	18350	N9	A	R	57	-3.237	3.167-166.005	1.00	34.98	N
ATOM	18351	C8	A	R	57	-3.050	4.099-165.006	1.00	32.95	C
ATOM	18352	H8	A	R	57	-2.160	4.715-164.928	1.00	32.95	H
ATOM	18353	N7	A	R	57	-4.037	4.157-164.145	1.00	35.41	N
ATOM	18354	C5	A	R	57	-4.938	3.202-164.626	1.00	32.51	C
ATOM	18355	C6	A	R	57	-6.204	2.738-164.208	1.00	38.64	C
ATOM	18356	N6	A	R	57	-6.842	3.178-163.142	1.00	37.87	N
ATOM	18357	1H6	A	R	57	-7.746	2.800-162.951	1.00	37.87	H
ATOM	18358	2H6	A	R	57	-6.393	3.906-162.607	1.00	37.87	H
ATOM	18359	N1	A	R	57	-6.863	1.791-164.878	1.00	41.29	N
ATOM	18360	C2	A	R	57	-6.276	1.308-165.964	1.00	35.13	C
ATOM	18361	H2	A	R	57	-6.833	0.552-166.498	1.00	35.13	H
ATOM	18362	N3	A	R	57	-5.098	1.630-166.487	1.00	34.65	N
ATOM	18363	C4	A	R	57	-4.466	2.600-165.759	1.00	34.12	C
ATOM	18364	F	A	R	58	-0.801	3.203-171.181	1.00	43.49	P
ATOM	18365	O1P	A	R	58	0.632	3.494-171.304	1.00	37.32	O
ATOM	18366	O2P	A	R	58	-1.821	4.265-171.294	1.00	37.37	O
ATOM	18367	O5*	A	R	58	-1.179	1.936-172.112	1.00	44.00	O
ATOM	18368	C5*	A	R	58	-2.334	1.927-172.949	1.00	40.52	C
ATOM	18369	1H5*	A	R	58	-2.719	2.942-173.045	1.00	40.52	H
ATOM	18370	2H5*	A	R	58	-3.111	1.321-172.488	1.00	40.52	H
ATOM	18371	C4*	A	R	58	-2.102	1.412-174.385	1.00	43.37	C
ATOM	18372	H4*	A	R	58	-2.870	1.889-174.984	1.00	43.37	H
ATOM	18373	O4*	A	R	58	-0.819	1.792-174.862	1.00	42.04	O
ATOM	18374	C3*	A	R	58	-2.182	-0.102-174.629	1.00	46.42	C
ATOM	18375	H3*	A	R	58	-2.947	-0.577-174.013	1.00	46.42	H
ATOM	18376	O3*	A	R	58	-2.383	-0.336-176.025	1.00	56.99	O
ATOM	18377	C2*	A	R	58	-0.770	-0.483-174.192	1.00	45.41	C
ATOM	18378	H2*	A	R	58	-0.738	-0.446-173.101	1.00	45.41	H
ATOM	18379	O2*	A	R	58	-0.341	-1.762-174.643	1.00	44.28	O
ATOM	18380	*HO2	A	R	58	-1.114	-2.187-175.086	1.00	44.28	O
ATOM	18381	C1*	A	R	58	0.062	0.672-174.774	1.00	42.33	C
ATOM	18382	H1*	A	R	58	0.373	0.408-175.785	1.00	42.33	H
ATOM	18383	N9	A	R	58	1.258	0.949-173.936	1.00	35.27	N
ATOM	18384	C8	A	R	58	1.864	0.110-173.030	1.00	37.36	C
ATOM	18385	H8	A	R	58	1.544	-0.914-172.889	1.00	37.36	H
ATOM	18386	N7	A	R	58	2.803	0.661-172.305	1.00	33.55	N
ATOM	18387	C5	A	R	58	2.854	1.967-172.831	1.00	26.54	C
ATOM	18388	C6	A	R	58	3.611	3.131-172.550	1.00	24.62	C
ATOM	18389	N6	A	R	58	4.481	3.252-171.567	1.00	22.16	N
ATOM	18390	1H6	A	R	58	4.813	4.186-171.424	1.00	22.16	H
ATOM	18391	2H6	A	R	58	4.472	2.543-170.860	1.00	22.16	H
ATOM	18392	N1	A	R	58	3.539	4.226-173.303	1.00	22.57	N
ATOM	18393	C2	A	R	58	2.658	4.210-174.292	1.00	23.37	C
ATOM	18394	H2	A	R	58	2.602	5.111-174.885	1.00	23.37	H
ATOM	18395	N3	A	R	58	1.867	3.220-174.680	1.00	33.75	N
ATOM	18396	C4	A	R	58	1.982	2.122-173.878	1.00	29.46	C
ATOM	18397	F	A	R	60	-3.032	-1.665-176.588	1.00	47.33	P
ATOM	18398	O1P	A	R	60	-4.494	-1.426-176.692	1.00	45.15	O
ATOM	18399	O2P	A	R	60	-2.524	-2.759-175.739	1.00	49.44	O
ATOM	18400	O5*	A	R	60	-2.437	-1.906-178.074	1.00	51.90	O
ATOM	18401	C5*	A	R	60	-3.210	-1.632-179.234	1.00	42.25	C
ATOM	18402	1H5*	A	R	60	-3.787	-0.728-179.069	1.00	42.25	H
ATOM	18403	2H5*	A	R	60	-3.926	-2.437-179.347	1.00	42.25	H
ATOM	18404	C4*	A	R	60	-2.447	-1.494-180.570	1.00	46.71	C
ATOM	18405	H4*	A	R	60	-3.206	-1.470-181.350	1.00	46.71	H
ATOM	18406	O4*	A	R	60	-1.744	-0.260-180.646	1.00	49.29	O
ATOM	18407	C3*	A	R	60	-1.435	-2.609-180.931	1.00	51.82	C
ATOM	18408	H3*	A	R	60	-1.236	-3.191-180.032	1.00	51.82	H
ATOM	18409	O3*	A	R	60	-1.870	-3.537-181.957	1.00	55.23	O
ATOM	18410	C2*	A	R	60	-0.167	-1.782-181.226	1.00	47.37	C
ATOM	18411	H2*	A	R	60	0.372	-1.647-180.286	1.00	47.37	H
ATOM	18412	O2*	A	R	60	0.704	-2.325-182.198	1.00	54.80	O
ATOM	18413	*HO2	A	R	60	0.156	-2.780-182.862	1.00	54.80	O
ATOM	18414	C1*	A	R	60	-0.768	-0.445-181.641	1.00	45.71	C
ATOM	18415	H1*	A	R	60	-1.269	-0.581-182.597	1.00	45.71	H
ATOM	18416	N9	A	R	60	0.132	0.726-181.791	1.00	41.12	N
ATOM	18417	C8	A	R	60	-0.123	1.800-182.607	1.00	45.70	C
ATOM	18418	H8	A	R	60	-1.069	1.926-183.120	1.00	45.70	H
ATOM	18419	N7	A	R	60	0.887	2.613-182.765	1.00	38.84	N
ATOM	18420	C5	A	R	60	1.842	2.104-181.877	1.00	31.14	C
ATOM	18421	C6	A	R	60	3.133	2.519-181.469	1.00	31.35	C
ATOM	18422	N6	A	R	60	3.720	3.643-181.828	1.00	28.71	N
ATOM	18423	1H6	A	R	60	4.589	3.839-181.366	1.00	28.71	H
ATOM	18424	2H6	A	R	60	3.149	4.388-182.200	1.00	28.71	H
ATOM	18425	N1	A	R	60	3.894	1.757-180.692	1.00	27.20	N
ATOM	18426	C2	A	R	60	3.367	0.626-180.245	1.00	32.72	C

ATOM	18427	H2	A	R	60	3.997	0.029-179.599	1.00	32.72	H
ATOM	18428	N3	A	R	60	2.158	0.138-180.488	1.00	35.81	N
ATOM	18429	C4	A	R	60	1.419	0.926-181.317	1.00	35.96	C
ATOM	18430	P	A	R	61	-2.169	-3.228-183.523	1.00	45.21	P
ATOM	18431	O1P	A	R	61	-2.712	-1.868-183.662	1.00	44.19	O
ATOM	18432	O2P	A	R	61	-2.913	-4.374-184.087	1.00	50.89	O
ATOM	18433	O5*	A	R	61	-0.717	-3.235-184.223	1.00	53.54	O
ATOM	18434	C5*	A	R	61	-0.117	-4.459-184.642	1.00	38.19	C
ATOM	18435	1H5*	A	R	61	-0.816	-4.998-185.283	1.00	38.19	H
ATOM	18436	2H5*	A	R	61	0.080	-5.082-183.767	1.00	38.19	H
ATOM	18437	C4*	A	R	61	1.193	-4.285-185.431	1.00	42.47	C
ATOM	18438	H4*	A	R	61	1.469	-5.272-185.785	1.00	42.47	H
ATOM	18439	O4*	A	R	61	1.006	-3.425-186.559	1.00	37.77	O
ATOM	18440	C3*	A	R	61	2.364	-3.718-184.605	1.00	41.21	C
ATOM	18441	H3*	A	R	61	2.207	-3.842-183.532	1.00	41.21	H
ATOM	18442	O3*	A	R	61	3.636	-4.229-184.997	1.00	35.62	O
ATOM	18443	C2*	A	R	61	2.297	-2.253-185.028	1.00	40.07	C
ATOM	18444	H2*	A	R	61	1.435	-1.776-184.560	1.00	40.07	H
ATOM	18445	O2*	A	R	61	3.485	-1.521-184.767	1.00	46.88	O
ATOM	18446	*HO2	A	R	61	4.168	-2.210-184.674	1.00	46.88	H
ATOM	18447	C1*	A	R	61	2.040	-2.455-186.518	1.00	37.36	C
ATOM	18448	H1*	A	R	61	2.946	-2.848-186.991	1.00	37.36	H
ATOM	18449	N9	A	R	61	1.659	-1.178-187.140	1.00	38.10	N
ATOM	18450	C8	A	R	61	0.531	-0.439-186.896	1.00	37.40	C
ATOM	18451	H8	A	R	61	-0.304	-0.820-186.317	1.00	37.40	H
ATOM	18452	N7	A	R	61	0.606	0.786-187.343	1.00	40.51	N
ATOM	18453	C5	A	R	61	1.828	0.815-188.034	1.00	35.50	C
ATOM	18454	C6	A	R	61	2.521	1.775-188.814	1.00	37.32	C
ATOM	18455	N6	A	R	61	2.037	2.955-189.118	1.00	33.04	N
ATOM	18456	1H6	A	R	61	2.411	3.434-189.934	1.00	33.04	H
ATOM	18457	2H6	A	R	61	1.076	3.142-188.863	1.00	33.04	H
ATOM	18458	N1	A	R	61	3.759	1.553-189.263	1.00	30.30	N
ATOM	18459	C2	A	R	61	4.282	0.359-189.011	1.00	36.94	C
ATOM	18460	H2	A	R	61	5.280	0.190-189.391	1.00	36.94	H
ATOM	18461	N3	A	R	61	3.747	-0.649-188.331	1.00	38.70	N
ATOM	18462	C4	A	R	61	2.493	-0.368-187.882	1.00	38.91	C
ATOM	18463	P	A	R	62	4.039	-5.753-184.710	1.00	45.07	P
ATOM	18464	O1P	A	R	62	3.252	-6.224-183.559	1.00	41.06	O
ATOM	18465	O2P	A	R	62	5.512	-5.849-184.705	1.00	43.44	O
ATOM	18466	O5*	A	R	62	3.483	-6.537-185.999	1.00	41.78	O
ATOM	18467	C5*	A	R	62	4.306	-6.792-187.124	1.00	33.45	C
ATOM	18468	1H5*	A	R	62	5.246	-7.225-186.781	1.00	33.45	H
ATOM	18469	2H5*	A	R	62	4.532	-5.852-187.631	1.00	33.45	H
ATOM	18470	C4*	A	R	62	3.673	-7.777-188.126	1.00	33.17	C
ATOM	18471	H4*	A	R	62	4.478	-8.097-188.780	1.00	33.17	H
ATOM	18472	O4*	A	R	62	3.142	-8.926-187.461	1.00	34.17	O
ATOM	18473	C3*	A	R	62	2.535	-7.178-188.974	1.00	36.53	C
ATOM	18474	H3*	A	R	62	2.649	-6.100-189.108	1.00	36.53	H
ATOM	18475	O3*	A	R	62	2.442	-7.845-190.230	1.00	34.16	O
ATOM	18476	C2*	A	R	62	1.337	-7.507-188.066	1.00	38.36	C
ATOM	18477	H2*	A	R	62	1.332	-6.812-187.229	1.00	38.36	H
ATOM	18478	O2*	A	R	62	0.052	-7.521-188.683	1.00	38.34	O
ATOM	18479	*HO2	A	R	62	-0.618	-7.494-187.972	1.00	38.34	H
ATOM	18480	C1*	A	R	62	1.725	-8.898-187.576	1.00	32.44	C
ATOM	18481	H1*	A	R	62	1.415	-9.594-188.354	1.00	32.44	H
ATOM	18482	N9	A	R	62	1.063	-9.263-186.303	1.00	34.98	N
ATOM	18483	C8	A	R	62	1.394	-8.894-185.016	1.00	32.95	C
ATOM	18484	H8	A	R	62	2.256	-8.280-184.781	1.00	32.95	H
ATOM	18485	N7	A	R	62	0.589	-9.375-184.100	1.00	35.41	N
ATOM	18486	C5	A	R	62	-0.369	-10.060-184.850	1.00	32.51	C
ATOM	18487	C6	A	R	62	-1.547	-10.768-184.530	1.00	38.64	C
ATOM	18488	N6	A	R	62	-2.030	-10.903-183.313	1.00	37.87	N
ATOM	18489	1H6	A	R	62	-2.959	-11.270-183.251	1.00	37.87	H
ATOM	18490	2H6	A	R	62	-1.596	-10.338-182.601	1.00	37.87	H
ATOM	18491	N1	A	R	62	-2.274	-11.380-185.462	1.00	41.29	N
ATOM	18492	C2	A	R	62	-1.884	-11.229-186.718	1.00	35.13	C
ATOM	18493	H2	A	R	62	-2.504	-11.707-187.460	1.00	35.13	H
ATOM	18494	N3	A	R	62	-0.797	-10.626-187.184	1.00	34.65	N
ATOM	18495	C4	A	R	62	-0.079	-10.025-186.186	1.00	34.12	C
ATOM	18496	P	A	R	63	3.495	-7.602-191.410	1.00	43.49	P
ATOM	18497	O1P	A	R	63	4.744	-8.317-191.083	1.00	37.32	O
ATOM	18498	O2P	A	R	63	3.534	-6.173-191.759	1.00	37.37	O
ATOM	18499	O5*	A	R	63	2.860	-8.416-192.632	1.00	44.00	O
ATOM	18500	C5*	A	R	63	1.987	-7.825-193.574	1.00	40.52	C
ATOM	18501	1H5*	A	R	63	2.038	-6.743-193.528	1.00	40.52	H
ATOM	18502	2H5*	A	R	63	0.964	-8.126-193.364	1.00	40.52	H
ATOM	18503	C4*	A	R	63	2.397	-8.319-194.968	1.00	43.37	C

ATOM	18504	H4*	A	R	63	2.267	-9.397-194.955	1.00	43.37	H
ATOM	18505	O4*	A	R	63	1.568	-7.749-195.978	1.00	42.04	O
ATOM	18506	C3*	A	R	63	3.860	-7.956-195.297	1.00	46.42	C
ATOM	18507	H3*	A	R	63	4.303	-7.524-194.399	1.00	46.42	H
ATOM	18508	O3*	A	R	63	4.761	-9.012-195.673	1.00	56.99	O
ATOM	18509	C2*	A	R	63	3.743	-6.788-196.299	1.00	45.41	C
ATOM	18510	H2*	A	R	63	4.107	-5.876-195.823	1.00	45.41	H
ATOM	18511	O2*	A	R	63	4.454	-6.989-197.511	1.00	44.28	O
ATOM	18512	*HO2	A	R	63	4.379	-7.935-197.741	1.00	44.28	H
ATOM	18513	C1*	A	R	63	2.244	-6.659-196.601	1.00	42.33	C
ATOM	18514	H1*	A	R	63	2.117	-6.747-197.684	1.00	42.33	H
ATOM	18515	N9	A	R	63	1.637	-5.356-196.203	1.00	35.27	N
ATOM	18516	C8	A	R	63	1.771	-4.624-195.042	1.00	37.36	C
ATOM	18517	H8	A	R	63	2.460	-4.883-194.246	1.00	37.36	H
ATOM	18518	N7	A	R	63	0.958	-3.605-194.953	1.00	33.55	N
ATOM	18519	C5	A	R	63	0.276	-3.627-196.177	1.00	26.54	C
ATOM	18520	C6	A	R	63	-0.758	-2.853-196.762	1.00	24.62	C
ATOM	18521	N6	A	R	63	-1.392	-1.863-196.165	1.00	22.16	N
ATOM	18522	1H6	A	R	63	-2.156	-1.421-196.657	1.00	22.16	H
ATOM	18523	2H6	A	R	63	-1.105	-1.593-195.242	1.00	22.16	H
ATOM	18524	N1	A	R	63	-1.191	-3.103-197.997	1.00	22.57	N
ATOM	18525	C2	A	R	63	-0.613	-4.093-198.658	1.00	23.37	C
ATOM	18526	H2	A	R	63	-0.982	-4.263-199.660	1.00	23.37	H
ATOM	18527	N3	A	R	63	0.341	-4.923-198.244	1.00	33.75	N
ATOM	18528	C4	A	R	63	0.738	-4.643-196.970	1.00	29.46	C
ATOM	18529	P	A	R	65	4.447	-10.268-196.632	1.00	47.33	P
ATOM	18530	O1P	A	R	65	3.284	-11.043-196.161	1.00	45.15	O
ATOM	18531	O2P	A	R	65	5.726	-10.978-196.843	1.00	49.44	O
ATOM	18532	O5*	A	R	65	4.057	-9.611-198.039	1.00	51.90	O
ATOM	18533	C5*	A	R	65	4.357	-10.319-199.221	1.00	42.25	C
ATOM	18534	1H5*	A	R	65	4.043	-11.355-199.083	1.00	42.25	H
ATOM	18535	2H5*	A	R	65	5.439	-10.308-199.367	1.00	42.25	H
ATOM	18536	C4*	A	R	65	3.678	-9.761-200.478	1.00	46.71	C
ATOM	18537	H4*	A	R	65	2.603	-9.684-200.322	1.00	46.71	H
ATOM	18538	O4*	A	R	65	4.230	-8.487-200.805	1.00	49.29	O
ATOM	18539	C3*	A	R	65	3.990	-10.729-201.638	1.00	51.82	C
ATOM	18540	H3*	A	R	65	4.481	-11.617-201.241	1.00	51.82	H
ATOM	18541	O3*	A	R	65	2.836	-11.221-202.332	1.00	55.23	O
ATOM	18542	C2*	A	R	65	5.069	-9.945-202.399	1.00	47.37	C
ATOM	18543	H2*	A	R	65	6.015	-10.106-201.880	1.00	47.37	H
ATOM	18544	O2*	A	R	65	5.248	-10.308-203.754	1.00	54.80	O
ATOM	18545	*HO2	A	R	65	4.436	-10.070-204.233	1.00	54.80	H
ATOM	18546	C1*	A	R	65	4.658	-8.495-202.156	1.00	45.71	C
ATOM	18547	H1*	A	R	65	3.836	-8.216-202.819	1.00	45.71	H
ATOM	18548	N9	A	R	65	5.778	-7.558-202.370	1.00	41.12	N
ATOM	18549	C8	A	R	65	6.708	-7.095-201.469	1.00	45.70	C
ATOM	18550	H8	A	R	65	6.682	-7.366-200.421	1.00	45.70	H
ATOM	18551	N7	A	R	65	7.621	-6.314-201.991	1.00	38.84	N
ATOM	18552	C5	A	R	65	7.224	-6.231-203.335	1.00	31.14	C
ATOM	18553	C6	A	R	65	7.696	-5.547-204.479	1.00	31.35	C
ATOM	18554	N6	A	R	65	8.729	-4.728-204.495	1.00	28.71	N
ATOM	18555	1H6	A	R	65	8.883	-4.250-205.361	1.00	28.71	H
ATOM	18556	2H6	A	R	65	9.164	-4.508-203.618	1.00	28.71	H
ATOM	18557	N1	A	R	65	7.109	-5.663-205.665	1.00	27.20	N
ATOM	18558	C2	A	R	65	6.035	-6.444-205.742	1.00	32.72	C
ATOM	18559	H2	A	R	65	5.574	-6.530-206.717	1.00	32.72	H
ATOM	18560	N3	A	R	65	5.460	-7.134-204.762	1.00	35.81	N
ATOM	18561	C4	A	R	65	6.107	-6.984-203.573	1.00	35.96	C
ATOM	18562	P	A	R	66	1.886	-10.385-203.315	1.00	45.21	P
ATOM	18563	O1P	A	R	66	1.722	-9.012-202.823	1.00	44.19	O
ATOM	18564	O2P	A	R	66	0.649	-11.152-203.537	1.00	50.89	O
ATOM	18565	O5*	A	R	66	2.684	-10.339-204.706	1.00	53.54	O
ATOM	18566	C5*	A	R	66	2.948	-11.535-205.429	1.00	38.19	C
ATOM	18567	1H5*	A	R	66	2.091	-12.205-205.340	1.00	38.19	H
ATOM	18568	2H5*	A	R	66	3.795	-12.039-204.963	1.00	38.19	H
ATOM	18569	C4*	A	R	66	3.258	-11.375-206.931	1.00	42.47	C
ATOM	18570	H4*	A	R	66	3.709	-12.317-207.235	1.00	42.47	H
ATOM	18571	O4*	A	R	66	2.055	-11.213-207.679	1.00	37.77	O
ATOM	18572	C3*	A	R	66	4.195	-10.257-207.413	1.00	41.21	C
ATOM	18573	H3*	A	R	66	5.005	-10.052-206.711	1.00	41.21	H
ATOM	18574	O3*	A	R	66	4.653	-10.842-208.632	1.00	35.62	O
ATOM	18575	C2*	A	R	66	3.162	-9.116-207.495	1.00	40.07	C
ATOM	18576	H2*	A	R	66	2.943	-8.765-206.486	1.00	40.07	H
ATOM	18577	O2*	A	R	66	3.544	-7.988-208.262	1.00	46.88	O
ATOM	18578	*HO2	A	R	66	4.064	-8.286-209.051	1.00	46.88	H
ATOM	18579	C1*	A	R	66	1.935	-9.843-208.053	1.00	37.36	C
ATOM	18580	H1*	A	R	66	1.964	-9.742-209.140	1.00	37.36	H

ATOM	18581	N9	A	R	66	0.647	-9.323	-207.544	1.00	38.10	N
ATOM	18582	C8	A	R	66	-0.073	-9.746	-206.455	1.00	37.40	C
ATOM	18583	H8	A	R	66	0.279	-10.540	-205.811	1.00	37.40	H
ATOM	18584	N7	A	R	66	-1.217	-9.129	-206.281	1.00	40.51	N
ATOM	18585	C5	A	R	66	-1.256	-8.245	-207.371	1.00	35.50	C
ATOM	18586	C6	A	R	66	-2.205	-7.325	-207.880	1.00	37.32	C
ATOM	18587	N6	A	R	66	-3.402	-7.114	-207.369	1.00	33.04	N
ATOM	18588	1H6	A	R	66	-4.085	-6.573	-207.899	1.00	33.04	H
ATOM	18589	2H6	A	R	66	-3.691	-7.595	-206.538	1.00	33.04	H
ATOM	18590	N1	A	R	66	-1.959	-6.611	-208.978	1.00	30.30	N
ATOM	18591	C2	A	R	66	-0.816	-6.834	-209.614	1.00	36.94	C
ATOM	18592	H2	A	R	66	-0.648	-6.255	-210.512	1.00	36.94	H
ATOM	18593	N3	A	R	66	0.135	-7.700	-209.300	1.00	38.70	N
ATOM	18594	C4	A	R	66	-0.132	-8.365	-208.145	1.00	38.91	C
ATOM	18595	F	A	R	67	5.581	-10.155	-209.732	1.00	45.07	F
ATOM	18596	O1P	A	R	67	6.985	-10.163	-209.280	1.00	41.06	O
ATOM	18597	O2P	A	R	67	4.933	-8.914	-210.193	1.00	43.44	O
ATOM	18598	O5*	A	R	67	5.398	-11.249	-210.894	1.00	41.78	O
ATOM	18599	C5*	A	R	67	4.103	-11.520	-211.407	1.00	33.45	C
ATOM	18600	1H5*	A	R	67	3.983	-10.991	-212.353	1.00	33.45	H
ATOM	18601	2H5*	A	R	67	3.335	-11.165	-210.719	1.00	33.45	H
ATOM	18602	C4*	A	R	67	3.927	-13.028	-211.632	1.00	33.17	C
ATOM	18603	H4*	A	R	67	4.662	-13.346	-212.369	1.00	33.17	H
ATOM	18604	O4*	A	R	67	4.109	-13.747	-210.413	1.00	34.17	O
ATOM	18605	C3*	A	R	67	2.514	-13.370	-212.126	1.00	36.53	C
ATOM	18606	H3*	A	R	67	2.056	-12.522	-212.640	1.00	36.53	H
ATOM	18607	O3*	A	R	67	2.594	-14.513	-212.978	1.00	34.16	O
ATOM	18608	C2*	A	R	67	1.812	-13.659	-210.785	1.00	38.36	C
ATOM	18609	H2*	A	R	67	1.614	-12.719	-210.264	1.00	38.36	H
ATOM	18610	O2*	A	R	67	0.627	-14.435	-210.894	1.00	38.34	O
ATOM	18611	*HO2	A	R	67	0.292	-14.324	-211.819	1.00	38.34	O
ATOM	18612	C1*	A	R	67	2.914	-14.431	-210.072	1.00	32.44	C
ATOM	18613	H1*	A	R	67	2.927	-15.423	-210.515	1.00	32.44	H
ATOM	18614	N9	A	R	67	2.742	-14.573	-208.604	1.00	34.98	N
ATOM	18615	C8	A	R	67	1.601	-14.394	-207.856	1.00	32.95	C
ATOM	18616	H8	A	R	67	0.656	-14.089	-208.290	1.00	32.95	H
ATOM	18617	N7	A	R	67	1.756	-14.611	-206.576	1.00	35.41	N
ATOM	18618	C5	A	R	67	3.112	-14.933	-206.470	1.00	32.51	C
ATOM	18619	C6	A	R	67	3.986	-15.197	-205.389	1.00	38.64	C
ATOM	18620	N6	A	R	67	3.654	-15.111	-204.118	1.00	37.87	N
ATOM	18621	1H6	A	R	67	4.403	-15.154	-203.455	1.00	37.87	H
ATOM	18622	2H6	A	R	67	2.751	-14.718	-203.895	1.00	37.87	H
ATOM	18623	N1	A	R	67	5.263	-15.521	-205.590	1.00	41.29	N
ATOM	18624	C2	A	R	67	5.692	-15.550	-206.841	1.00	35.13	C
ATOM	18625	H2	A	R	67	6.731	-15.814	-206.976	1.00	35.13	H
ATOM	18626	N3	A	R	67	5.002	-15.341	-207.956	1.00	34.65	N
ATOM	18627	C4	A	R	67	3.707	-14.982	-207.703	1.00	34.12	C
ATOM	18628	P	A	R	68	1.404	-14.859	-213.987	1.00	43.49	P
ATOM	18629	O1P	A	R	68	1.922	-14.584	-215.339	1.00	37.32	O
ATOM	18630	O2P	A	R	68	0.190	-14.204	-213.473	1.00	37.37	O
ATOM	18631	O5*	A	R	68	1.224	-16.448	-213.801	1.00	44.00	O
ATOM	18632	C5*	A	R	68	1.753	-17.373	-214.736	1.00	40.52	C
ATOM	18633	1H5*	A	R	68	2.286	-18.143	-214.183	1.00	40.52	H
ATOM	18634	2H5*	A	R	68	2.485	-16.886	-215.382	1.00	40.52	H
ATOM	18635	C4*	A	R	68	0.665	-18.061	-215.596	1.00	43.37	C
ATOM	18636	H4*	A	R	68	0.449	-19.029	-215.154	1.00	43.37	H
ATOM	18637	O4*	A	R	68	-0.558	-17.334	-215.695	1.00	42.04	O
ATOM	18638	C3*	A	R	68	1.145	-18.255	-217.039	1.00	46.42	C
ATOM	18639	H3*	A	R	68	2.229	-18.368	-217.091	1.00	46.42	H
ATOM	18640	O3*	A	R	68	0.477	-19.403	-217.570	1.00	56.99	O
ATOM	18641	C2*	A	R	68	0.688	-16.910	-217.630	1.00	45.41	C
ATOM	18642	H2*	A	R	68	1.288	-16.097	-217.215	1.00	45.41	H
ATOM	18643	O2*	A	R	68	0.748	-16.870	-219.045	1.00	44.28	O
ATOM	18644	*HO2	A	R	68	1.244	-17.664	-219.349	1.00	44.28	O
ATOM	18645	C1*	A	R	68	-0.717	-16.869	-217.033	1.00	42.33	C
ATOM	18646	H1*	A	R	68	-1.328	-17.577	-217.594	1.00	42.33	H
ATOM	18647	N9	A	R	68	-1.429	-15.572	-217.041	1.00	35.27	N
ATOM	18648	C8	A	R	68	-0.942	-14.284	-217.009	1.00	37.36	C
ATOM	18649	H8	A	R	68	0.116	-14.056	-216.988	1.00	37.36	H
ATOM	18650	N7	A	R	68	-1.874	-13.361	-216.988	1.00	33.55	N
ATOM	18651	C5	A	R	68	-3.058	-14.106	-216.962	1.00	26.54	C
ATOM	18652	C6	A	R	68	-4.432	-13.791	-216.854	1.00	24.62	C
ATOM	18653	N6	A	R	68	-4.913	-12.573	-216.711	1.00	22.16	N
ATOM	18654	1H6	A	R	68	-5.897	-12.487	-216.548	1.00	22.16	H
ATOM	18655	2H6	A	R	68	-4.251	-11.824	-216.577	1.00	22.16	H
ATOM	18656	N1	A	R	68	-5.374	-14.733	-216.894	1.00	22.57	N
ATOM	18657	C2	A	R	68	-4.966	-15.986	-217.024	1.00	23.37	C

ATOM	18658	H2	A	R	68	-5.746	-16.732	-217.060	1.00	23.37	H
ATOM	18659	N3	A	R	68	-3.726	-16.445	-217.124	1.00	33.75	N
ATOM	18660	C4	A	R	68	-2.799	-15.444	-217.058	1.00	29.46	C
ATOM	18661	P	A	R	70	0.929	-20.088	-218.941	1.00	47.33	P
ATOM	18662	O1P	A	R	70	1.346	-21.472	-218.650	1.00	45.15	O
ATOM	18663	O2P	A	R	70	1.855	-19.169	-219.629	1.00	49.44	O
ATOM	18664	O5*	A	R	70	-0.417	-20.149	-219.813	1.00	51.90	O
ATOM	18665	C5*	A	R	70	-1.400	-21.149	-219.593	1.00	42.25	C
ATOM	18666	1H5*	A	R	70	-2.056	-20.835	-218.780	1.00	42.25	H
ATOM	18667	2H5*	A	R	70	-0.911	-22.078	-219.293	1.00	42.25	H
ATOM	18668	C4*	A	R	70	-2.244	-21.447	-220.851	1.00	46.71	C
ATOM	18669	H4*	A	R	70	-2.619	-22.465	-220.754	1.00	46.71	H
ATOM	18670	O4*	A	R	70	-3.349	-20.553	-220.937	1.00	49.29	O
ATOM	18671	C3*	A	R	70	-1.455	-21.329	-222.171	1.00	51.82	C
ATOM	18672	H3*	A	R	70	-0.391	-21.438	-221.956	1.00	51.82	H
ATOM	18673	O3*	A	R	70	-1.776	-22.320	-223.171	1.00	55.23	O
ATOM	18674	C2*	A	R	70	-1.714	-19.860	-222.564	1.00	47.37	C
ATOM	18675	H2*	A	R	70	-0.870	-19.257	-222.226	1.00	47.37	H
ATOM	18676	O2*	A	R	70	-1.910	-19.679	-223.957	1.00	54.80	O
ATOM	18677	*HO2	A	R	70	-2.611	-20.309	-224.206	1.00	54.80	H
ATOM	18678	C1*	A	R	70	-2.999	-19.479	-221.807	1.00	45.71	C
ATOM	18679	H1*	A	R	70	-3.784	-19.400	-222.558	1.00	45.71	H
ATOM	18680	N9	A	R	70	-2.979	-18.156	-221.134	1.00	41.12	N
ATOM	18681	C8	A	R	70	-1.910	-17.405	-220.698	1.00	45.70	C
ATOM	18682	H8	A	R	70	-0.898	-17.783	-220.649	1.00	45.70	H
ATOM	18683	N7	A	R	70	-2.215	-16.177	-220.380	1.00	38.84	N
ATOM	18684	C5	A	R	70	-3.593	-16.119	-220.585	1.00	31.14	C
ATOM	18685	C6	A	R	70	-4.572	-15.109	-220.447	1.00	31.35	C
ATOM	18686	N6	A	R	70	-4.332	-13.882	-220.036	1.00	28.71	N
ATOM	18687	1H6	A	R	70	-5.119	-13.284	-219.874	1.00	28.71	H
ATOM	18688	2H6	A	R	70	-3.397	-13.659	-219.725	1.00	28.71	H
ATOM	18689	N1	A	R	70	-5.847	-15.343	-220.760	1.00	27.20	N
ATOM	18690	C2	A	R	70	-6.160	-16.552	-221.189	1.00	32.72	C
ATOM	18691	H2	A	R	70	-7.204	-16.702	-221.427	1.00	32.72	H
ATOM	18692	N3	A	R	70	-5.368	-17.606	-221.377	1.00	35.81	N
ATOM	18693	C4	A	R	70	-4.072	-17.319	-221.038	1.00	35.96	C
ATOM	18694	P	A	R	71	-3.252	-22.665	-223.662	1.00	45.21	P
ATOM	18695	O1P	A	R	71	-3.995	-21.402	-223.806	1.00	44.19	O
ATOM	18696	O2P	A	R	71	-3.818	-23.708	-222.783	1.00	50.89	O
ATOM	18697	O5*	A	R	71	-3.175	-23.227	-225.150	1.00	53.54	O
ATOM	18698	C5*	A	R	71	-2.729	-24.530	-225.468	1.00	38.19	C
ATOM	18699	1H5*	A	R	71	-3.095	-25.246	-224.734	1.00	38.19	H
ATOM	18700	2H5*	A	R	71	-1.638	-24.540	-225.454	1.00	38.19	H
ATOM	18701	C4*	A	R	71	-3.221	-24.966	-226.862	1.00	42.47	C
ATOM	18702	H4*	A	R	71	-2.695	-25.885	-227.120	1.00	42.47	H
ATOM	18703	O4*	A	R	71	-4.625	-25.224	-226.850	1.00	37.77	O
ATOM	18704	C3*	A	R	71	-2.952	-23.940	-227.969	1.00	41.21	C
ATOM	18705	H3*	A	R	71	-2.117	-23.291	-227.695	1.00	41.21	H
ATOM	18706	O3*	A	R	71	-2.684	-24.620	-229.189	1.00	35.62	O
ATOM	18707	C2*	A	R	71	-4.268	-23.143	-227.995	1.00	40.07	C
ATOM	18708	H2*	A	R	71	-4.159	-22.304	-227.308	1.00	40.07	H
ATOM	18709	O2*	A	R	71	-4.643	-22.664	-229.280	1.00	46.88	O
ATOM	18710	*HO2	A	R	71	-3.813	-22.568	-229.813	1.00	46.88	H
ATOM	18711	C1*	A	R	71	-5.310	-24.148	-227.485	1.00	37.36	C
ATOM	18712	H1*	A	R	71	-5.807	-24.546	-228.369	1.00	37.36	H
ATOM	18713	N9	A	R	71	-6.352	-23.573	-226.590	1.00	38.10	N
ATOM	18714	C8	A	R	71	-6.263	-22.512	-225.716	1.00	37.40	C
ATOM	18715	H8	A	R	71	-5.349	-21.952	-225.587	1.00	37.40	H
ATOM	18716	N7	A	R	71	-7.363	-22.245	-225.051	1.00	40.51	N
ATOM	18717	C5	A	R	71	-8.266	-23.169	-225.589	1.00	35.50	C
ATOM	18718	C6	A	R	71	-9.645	-23.422	-225.402	1.00	37.32	C
ATOM	18719	N6	A	R	71	-10.423	-22.779	-224.556	1.00	33.04	N
ATOM	18720	1H6	A	R	71	-11.415	-22.980	-224.558	1.00	33.04	H
ATOM	18721	2H6	A	R	71	-10.021	-22.087	-223.948	1.00	33.04	H
ATOM	18722	N1	A	R	71	-10.271	-24.394	-226.058	1.00	30.30	N
ATOM	18723	C2	A	R	71	-9.564	-25.093	-226.932	1.00	36.94	C
ATOM	18724	H2	A	R	71	-10.105	-25.868	-227.456	1.00	36.94	H
ATOM	18725	N3	A	R	71	-8.279	-24.975	-227.241	1.00	38.70	N
ATOM	18726	C4	A	R	71	-7.668	-23.981	-226.521	1.00	38.91	C
ATOM	18727	P	A	R	72	-1.734	-23.926	-230.263	1.00	45.07	P
ATOM	18728	O1P	A	R	72	-0.371	-23.908	-229.709	1.00	41.06	O
ATOM	18729	O2P	A	R	72	-2.406	-22.673	-230.661	1.00	43.44	O
ATOM	18730	O5*	A	R	72	-1.735	-24.930	-231.509	1.00	41.78	O
ATOM	18731	C5*	A	R	72	-2.794	-24.930	-232.445	1.00	33.45	C
ATOM	18732	1H5*	A	R	72	-2.984	-23.909	-232.780	1.00	33.45	H
ATOM	18733	2H5*	A	R	72	-3.695	-25.307	-231.959	1.00	33.45	H
ATOM	18734	C4*	A	R	72	-2.477	-25.795	-233.675	1.00	33.17	C

ATOM	18735	H4*	A	R	72	-3.360	-25.791-234.312	1.00	33.17	H
ATOM	18736	O4*	A	R	72	-1.380	-25.250-234.407	1.00	34.17	O
ATOM	18737	C3*	A	R	72	-2.130	-27.250-233.343	1.00	36.53	C
ATOM	18738	H3*	A	R	72	-2.585	-27.567-232.403	1.00	36.53	H
ATOM	18739	O3*	A	R	72	-2.570	-28.043-234.439	1.00	34.16	O
ATOM	18740	C2*	A	R	72	-0.598	-27.177-233.240	1.00	38.36	C
ATOM	18741	H2*	A	R	72	-0.330	-26.784-232.258	1.00	38.36	H
ATOM	18742	O2*	A	R	72	0.061	-28.418-233.462	1.00	38.34	O
ATOM	18743	*HO2	A	R	72	-0.642	-29.116-233.470	1.00	38.34	H
ATOM	18744	C1*	A	R	72	-0.280	-26.147-234.326	1.00	32.44	C
ATOM	18745	H1*	A	R	72	-0.205	-26.683-235.275	1.00	32.44	H
ATOM	18746	N9	A	R	72	0.986	-25.416-234.086	1.00	34.98	N
ATOM	18747	C8	A	R	72	1.427	-24.787-232.940	1.00	32.95	C
ATOM	18748	H8	A	R	72	0.823	-24.703-232.040	1.00	32.95	H
ATOM	18749	N7	A	R	72	2.641	-24.301-233.033	1.00	35.41	N
ATOM	18750	C5	A	R	72	3.008	-24.612-234.345	1.00	32.51	C
ATOM	18751	C6	A	R	72	4.156	-24.371-235.131	1.00	38.64	C
ATOM	18752	N6	A	R	72	5.223	-23.723-234.708	1.00	37.87	N
ATOM	18753	1H6	A	R	72	5.951	-23.556-235.370	1.00	37.87	H
ATOM	18754	2H6	A	R	72	5.184	-23.342-233.776	1.00	37.87	H
ATOM	18755	N1	A	R	72	4.244	-24.779-236.397	1.00	41.29	N
ATOM	18756	C2	A	R	72	3.195	-25.424-236.890	1.00	35.13	C
ATOM	18757	H2	A	R	72	3.283	-25.747-237.918	1.00	35.13	H
ATOM	18758	N3	A	R	72	2.055	-25.736-236.287	1.00	34.65	N
ATOM	18759	C4	A	R	72	2.013	-25.287-234.996	1.00	34.12	C
ATOM	18760	P	A	R	73	-2.937	-29.574-234.256	1.00	43.49	P
ATOM	18761	O1P	A	R	73	-4.222	-29.695-233.548	1.00	37.32	O
ATOM	18762	O2P	A	R	73	-1.733	-30.257-233.736	1.00	37.37	O
ATOM	18763	O5*	A	R	73	-3.157	-30.044-235.766	1.00	44.00	O
ATOM	18764	C5*	A	R	73	-2.892	-31.378-236.137	1.00	40.52	C
ATOM	18765	1H5*	A	R	73	-3.517	-32.049-235.546	1.00	40.52	H
ATOM	18766	2H5*	A	R	73	-1.851	-31.596-235.909	1.00	40.52	H
ATOM	18767	C4*	A	R	73	-3.131	-31.645-237.630	1.00	43.37	C
ATOM	18768	H4*	A	R	73	-2.532	-32.516-237.891	1.00	43.37	H
ATOM	18769	O4*	A	R	73	-4.495	-31.976-237.862	1.00	42.04	O
ATOM	18770	C3*	A	R	73	-2.729	-30.492-238.567	1.00	46.42	C
ATOM	18771	H3*	A	R	73	-2.064	-29.798-238.050	1.00	46.42	H
ATOM	18772	O3*	A	R	73	-2.052	-31.075-239.680	1.00	56.99	O
ATOM	18773	C2*	A	R	73	-4.091	-29.810-238.818	1.00	45.41	C
ATOM	18774	H2*	A	R	73	-4.177	-28.978-238.116	1.00	45.41	H
ATOM	18775	O2*	A	R	73	-4.340	-29.350-240.139	1.00	44.28	O
ATOM	18776	*HO2	A	R	73	-3.473	-29.263-240.615	1.00	44.28	H
ATOM	18777	C1*	A	R	73	-5.135	-30.881-238.493	1.00	42.33	C
ATOM	18778	H1*	A	R	73	-5.522	-31.231-239.451	1.00	42.33	H
ATOM	18779	N9	A	R	73	-6.288	-30.381-237.700	1.00	35.27	N
ATOM	18780	C8	A	R	73	-6.309	-29.614-236.552	1.00	37.36	C
ATOM	18781	H8	A	R	73	-5.415	-29.317-236.017	1.00	37.36	H
ATOM	18782	N7	A	R	73	-7.511	-29.271-236.160	1.00	33.55	N
ATOM	18783	C5	A	R	73	-8.339	-29.866-237.112	1.00	26.54	C
ATOM	18784	C6	A	R	73	-9.736	-29.908-237.313	1.00	24.62	C
ATOM	18785	N6	A	R	73	-10.616	-29.308-236.537	1.00	22.16	N
ATOM	18786	1H6	A	R	73	-11.581	-29.386-236.778	1.00	22.16	H
ATOM	18787	2H6	A	R	73	-10.253	-28.773-235.763	1.00	22.16	H
ATOM	18788	N1	A	R	73	-10.280	-30.575-238.332	1.00	22.57	N
ATOM	18789	C2	A	R	73	-9.443	-31.190-239.156	1.00	23.37	C
ATOM	18790	H2	A	R	73	-9.902	-31.716-239.980	1.00	23.37	H
ATOM	18791	N3	A	R	73	-8.119	-31.248-239.108	1.00	33.75	N
ATOM	18792	C4	A	R	73	-7.611	-30.549-238.047	1.00	29.46	C
ATOM	18793	P	A	R	74	-1.185	-30.201-240.709	1.00	70.35	P
ATOM	18794	O1P	A	R	74	-2.110	-29.277-241.392	1.00	72.38	O
ATOM	18795	O2P	A	R	74	-0.360	-31.133-241.506	1.00	72.12	O
ATOM	18796	O5*	A	R	74	-0.215	-29.333-239.773	1.00	71.92	O
ATOM	18797	C5*	A	R	74	0.958	-29.873-239.197	1.00	76.07	C
ATOM	18798	1H5*	A	R	74	1.810	-29.550-239.796	1.00	76.07	H
ATOM	18799	2H5*	A	R	74	0.925	-30.962-239.203	1.00	76.07	H
ATOM	18800	C4*	A	R	74	1.138	-29.364-237.761	1.00	78.63	C
ATOM	18801	H4*	A	R	74	0.996	-28.281-237.740	1.00	78.63	H
ATOM	18802	O4*	A	R	74	0.198	-29.966-236.876	1.00	80.00	O
ATOM	18803	C3*	A	R	74	2.534	-29.697-237.218	1.00	79.73	C
ATOM	18804	H3*	A	R	74	2.920	-30.603-237.686	1.00	79.73	H
ATOM	18805	O3*	A	R	74	3.452	-28.630-237.337	1.00	79.92	O
ATOM	18806	*HO3	A	R	74	3.233	-28.087-236.554	1.00	79.92	H
ATOM	18807	C2*	A	R	74	2.262	-29.944-235.734	1.00	80.60	C
ATOM	18808	H2*	A	R	74	3.003	-30.624-235.311	1.00	80.60	H
ATOM	18809	O2*	A	R	74	2.274	-28.709-235.019	1.00	80.81	O
ATOM	18810	*HO2	A	R	74	1.497	-28.636-234.424	1.00	80.81	H
ATOM	18811	C1*	A	R	74	0.870	-30.586-235.789	1.00	81.33	C

