

# Wide-Open Flaps are Key to Urease Activity

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## Supporting Information

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## Computational Methods

For starting structures, we used the PDB entries 1FWJ (closed flap) and 1EJX (open flap), both crystal structures of *Klebsiella aerogenes* urease. Because 1EJX misses residues 1001 and 1320 – 1329 (original PDB numbering), where 1320 – 1329 are part of the flap, we filled in its missing sections by means of homology modelling based on the urease from *Bacillus pasteurii* (PDB ID 2UBP), using Prime version 2.2,<sup>1-3</sup> part of the Schrödinger 2010 suite. PDB text of *K. aerogenes* urease with a flap in the wide-open conformation can be found at the end of this document.

For the protein, the FF99SB force field<sup>4</sup> was used, except for the supplementary parameters needed to model the dinickel cluster. These parameters were prepared using MCPB<sup>5</sup> and the MTK++ libraries.<sup>5</sup> The required DFT calculations were performed with Gaussian 03.<sup>6</sup> We used the B3LYP functional.<sup>7-10</sup> For the optimisation and frequency calculations to determine bond and angle force constants, we used a mixed basis set, with LANL2DZ<sup>11-14</sup> being used for the nickel ions and 6-31G\*<sup>15-24</sup> for all other atoms in the defined small cluster. On the nickel ions, LANL2DZ pseudopotentials were also used. For the calculation on the defined large cluster, which was used to compute charges according to the RESP method, the 6-31G\* basis set was used on all atoms. The parameters obtained from this procedure are shown in Table 1 (atom types and Lennard-Jones parameters), Table 2 (bond parameters), Table 3 (angle parameters), Table 4 (proper dihedral parameters), Table 5 (improper dihedral parameters) and Table 6 (atomic partial charges). We gave the residues in the dinickel cluster unique residue names to avoid accidentally overriding other parameters. For the same reason, we gave some atoms in these residues new atom types. Residue names are shown in Figure 1, atom names in Figure 2, and atom types in Figure 3. For solvent water molecules (but not those bound to the nickel ions), we used the TIP3P water model.<sup>25</sup>

Molecular dynamics simulations were run using Amber 11.<sup>26</sup> Preliminary calculations, namely steps 1 to 6 of the closed-flap simulation and steps 1 to 3 of the open-flap simulation (see below), were run on a dual quad-core Mac Pro. The production molecular dynamics calculations were run on the Cray supercomputers Kraken and Athena. Kraken is a Cray XT5

system in which each node has two 2.6 GHz six-core AMD Opteron processors, while Athena is a Cray XT4 system in which each node has one 2.6 GHz four-core AMD Opteron processor.

In all simulations, we used truncated octahedral periodic cells, with a short-range non-bonding interaction cutoff distance of 10 Å. For long-range electrostatics, we used the Particle Mesh Ewald (PME) treatment of Darden *et al.*,<sup>27-29</sup> with a cubic spline switching function for the transition from direct sums to PME and an interpolation order of 4.

Our simulation of the closed-flap structure consisted of the following procedure:

1. We began by running 5,000 steps of energy minimisation, the first 500 of which used steepest descents, and the remaining 4,500 conjugate gradients. During this minimisation, we restrained all protein atoms, including hydrogen atoms, to their original positions with a 100 kcal mol<sup>-1</sup> Å<sup>-2</sup> harmonic restraint while leaving solvent and counter-ions free to move.
2. We followed this minimisation with a 1 ns molecular dynamics simulation with a time step of 1 fs and a constant pressure of 1 bar, and with all protein atoms restrained to their original positions as described in step 1 above. During this simulation, the system was heated from 0 K to 500 K during the first 200 ps, kept at 500 K for the next 400 ps, cooled to 300 K during the next 200 ps, and kept at 300 K for the final 200 ps.
3. We then ran a 10 ps molecular dynamics simulation with a time step of 0.5 fs and with all protein atoms restrained to their original positions as described in step 1 above, a total of 20,000 steps. During this simulation, we kept the volume constant while cooling the temperature down from 300 K, so that after 40,000 steps (if the simulation had run that long) the temperature would have reached 0 K. In the event, the temperature cooled down to approximately 170 K.
4. We then ran another 10 ps molecular dynamics simulation with a time step of 0.5 fs and with all protein atoms restrained to their original positions as described in step 1 above, another 20,000 steps. We cooled the temperature down from 170 K to 0 K over the course of this simulation, while keeping the volume constant.
5. We again minimised the energy of the structure for up to 10,000 steps, with the first 100 steps being steepest descents and the remainder conjugate gradients. During this minimisation, unlike in the initial minimisation (see step 1 above), all atoms were free to move.
6. We then ran 100 ps of molecular dynamics with a time step of 1 fs, heating the system gradually over the course of this simulation from 0 K to 310 K, while keeping the pressure constant at 1 bar.
7. The final stage was the main molecular dynamics itself. We ran a total of 183.442 ns of MD on the closed-flap structure, the first 10.0 ns of which used a time step of 1 fs and flexible hydrogens. For the remaining 173.442 ns, we used the SHAKE algorithm to fix hydrogens relative to their bonding partners and increased the time step to 2 fs. The temperature was set to 310 K using Langevin dynamics with a collision frequency of 5.0 preventing synchronization,<sup>30</sup> and the pressure was kept constant at 1 bar.

For the open-flap structure, we used a different simulation procedure:

1. We initially ran energy minimisation with all atoms free to move, for a maximum of 10,000 steps, of which the first 500 used the steepest-descents algorithm and the remainder used conjugate gradients. The simulation reached the 10,000<sup>th</sup> step without converging.
2. We then ran molecular dynamics starting from the minimised structure from step 1, for a total of 200 ps (100,000 steps with a time step of 2.0 fs). During the first 50,000 steps, we gradually increased the temperature from 0 K to 310 K, while during the last 50,000 steps the temperature was held constant at 310 K. Throughout the simulation, pressure was held constant at 1.0 bar. All protein atoms were restrained to their starting positions with a harmonic restraint of 10 kcal mol<sup>-1</sup> Å<sup>-2</sup>, and SHAKE was used on all hydrogen atoms.
3. We then ran molecular dynamics starting from the final structure of step 2, for a total of 1.0 ns (500,000 steps with a time step of 2.0 fs). The pressure was held constant at 1.0 bar, and the temperature at 310 K using Langevin dynamics with a collision frequency of 5.0. SHAKE was used on all hydrogen atoms.
4. We ran molecular dynamics starting from the final structure of step 3, for a total of 100.0 ns. The simulation setup was the same as in step 3, but with different random seeds where needed.

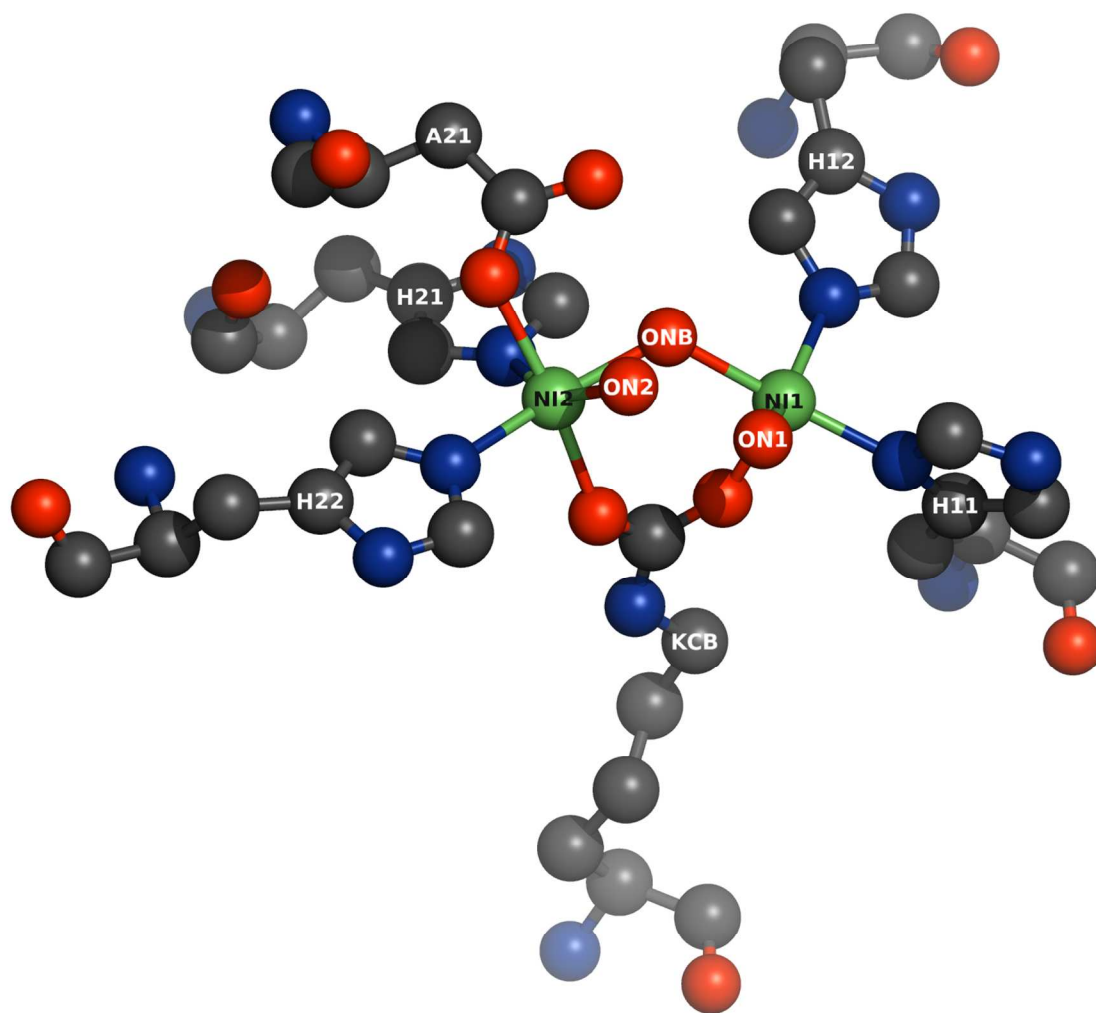


Figure 1. Our names for the residues forming part of the dinickel cluster in the urease active site.

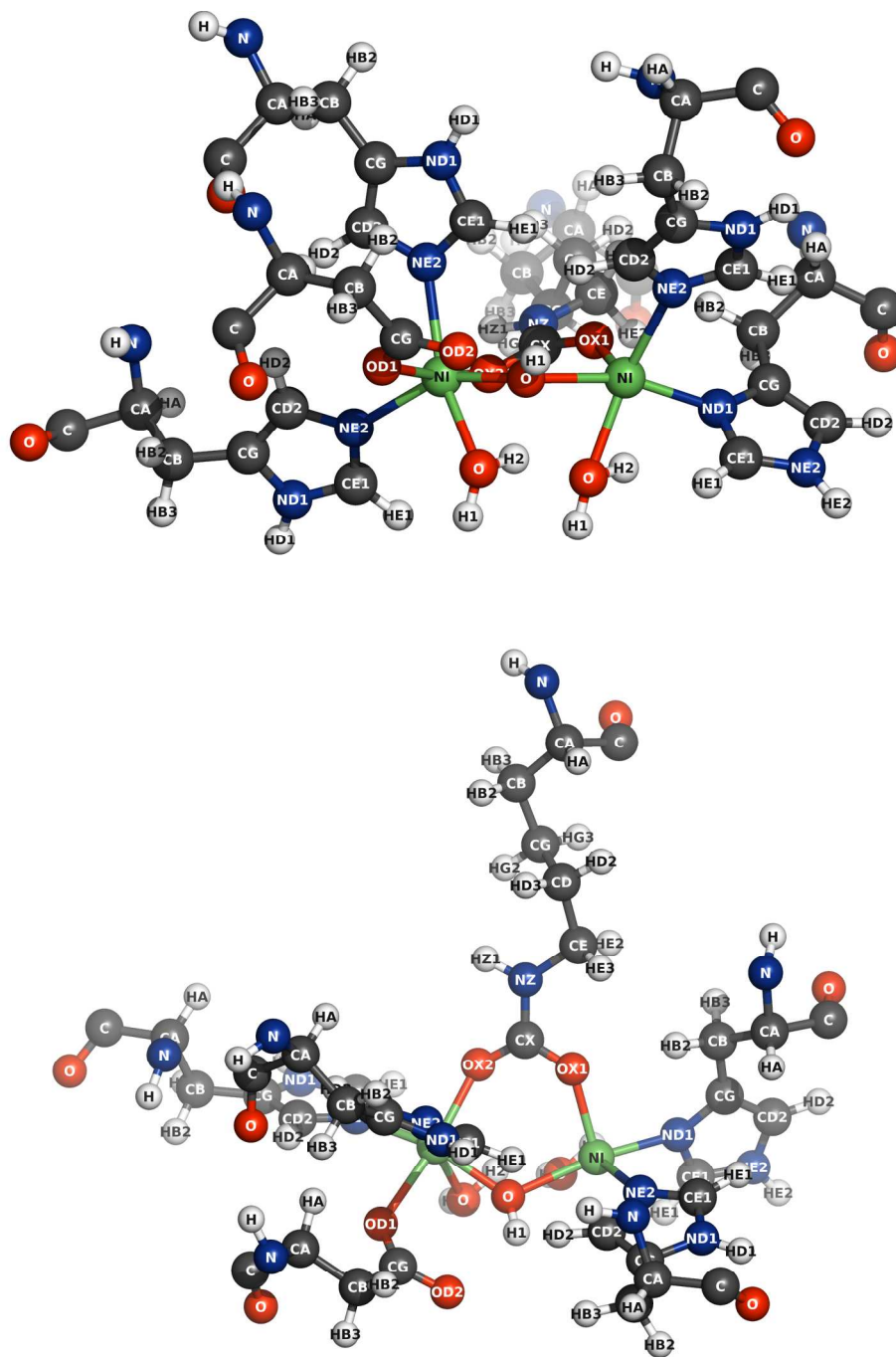


Figure 2. Atom names in the dinickel cluster. The cluster is shown from two different vantage points so that every atom may be seen clearly.

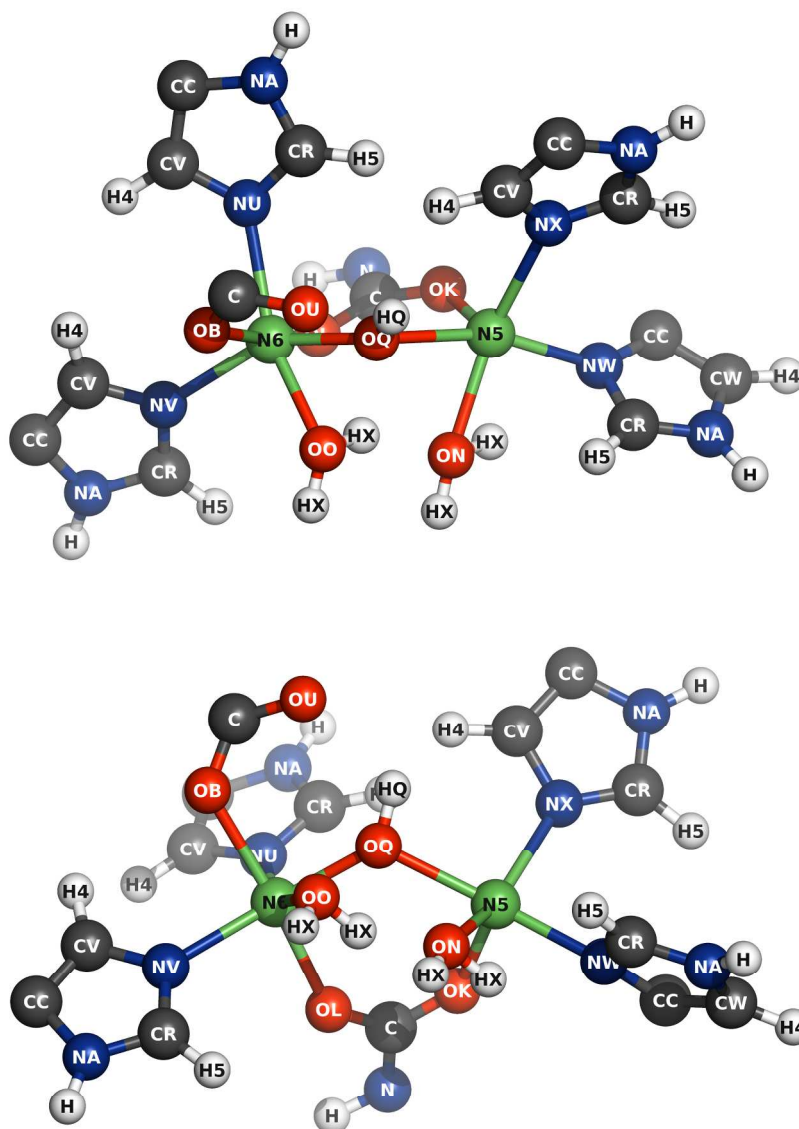


Figure 3. Atom types in the dinickel cluster. The cluster is shown from two different vantage points so that every atom may be seen clearly. Only the atoms with custom types and their immediate neighbours are shown. For other atoms, the conventional Amber types for the corresponding standard amino acid residues were used.

Table 1. Additional atom types, masses, and Lennard-Jones parameters.

Atom type	Element	Mass (u)	$\sigma$ (Å)	$\epsilon$ (kcal mol <sup>-1</sup> )
HQ	H	1.008	0.60	0.0157
HX	H	1.008	0.60	0.0157
N5	Ni	58.693	0.00	0.0000
N6	Ni	58.693	0.00	0.0000
NU	N	14.010	1.82	0.1700
NV	N	14.010	1.82	0.1700
NW	N	14.010	1.82	0.1700
NX	N	14.010	1.82	0.1700
OB	O	16.000	1.66	0.2100
OK	O	16.000	1.66	0.2100
OL	O	16.000	1.66	0.2100
ON	O	16.000	1.78	0.1550
OO	O	16.000	1.78	0.1550
OQ	O	16.000	1.72	0.2100
OU	O	16.000	1.66	0.2100

Table 2. Bond parameters.

Bond type	$k$ (kcal mol <sup>-1</sup> Å <sup>-2</sup> )	$r_0$ (Å)
C—OB	656.00	1.250
C—OK	656.00	1.250
C—OL	656.00	1.250
C—OQ	450.00	1.364
C—OU	656.00	1.250
CA—OQ	450.00	1.364
CB—NU	414.00	1.391
CB—NV	414.00	1.391
CB—NW	414.00	1.391
CB—NX	414.00	1.391
CC—NU	410.00	1.394
CC—NV	410.00	1.394
CC—NW	410.00	1.394
CC—NX	410.00	1.394
CK—NU	529.00	1.304
CK—NV	529.00	1.304
CK—NW	529.00	1.304
CK—NX	529.00	1.304
CR—NU	488.00	1.335
CR—NV	488.00	1.335
CR—NW	488.00	1.335
CR—NX	488.00	1.335
CT—OQ	320.00	1.410



Bond type	$k$ (kcal mol <sup>-1</sup> Å <sup>-2</sup> )	$r_0$ (Å)
CV—NU	410.00	1.394
CV—NV	410.00	1.394
CV—NW	410.00	1.394
CV—NX	410.00	1.394
HQ—OQ	553.00	0.960
HX—ON	529.58	1.012
HX—OO	529.58	1.012
LP—NU	600.00	0.200
LP—NV	600.00	0.200
LP—NW	600.00	0.200
LP—NX	600.00	0.200
LP—OQ	600.00	0.200
N5—NW	60.63	2.149
N5—NX	70.80	2.113
N5—OK	83.45	2.022
N5—ON	59.88	2.141
N5—OQ	136.15	1.928
N6—NU	67.53	2.127
N6—NV	74.66	2.099
N6—OB	107.84	2.087
N6—OL	40.79	2.194
N6—OO	52.57	2.203
N6—OQ	107.56	2.042
OB—P	525.00	1.480

<b>Bond type</b>	<b><math>k</math> (kcal mol<sup>-1</sup> Å<sup>-2</sup>)</b>	<b><math>r_0</math> (Å)</b>
OK—P	525.00	1.480
OL—P	525.00	1.480
OQ—P	230.00	1.610
OU—P	525.00	1.480

Table 3. Angle parameters.

Angle type	$k_{\theta}$ (kcal mol <sup>-1</sup> rad <sup>-2</sup> )	$\theta_0$ (°)
C—C—OQ	80.00	120.00
CA—C—OQ	70.00	120.00
CT—C—OQ	80.00	110.00
CT—C—OB	70.00	117.00
CT—C—OK	70.00	117.00
CT—C—OL	70.00	117.00
CT—C—OU	70.00	117.00
H4—C—OQ	50.00	120.00
H5—C—OQ	50.00	107.00
N—C—OK	126.78	117.86
N—C—OL	130.62	116.74
O—C—OQ	80.00	120.00
OB—C—OB	80.00	126.00
OB—C—OU	140.26	125.55
OK—C—OK	80.00	126.00
OK—C—OL	121.98	125.34
OL—C—OL	80.00	126.00
OU—C—OU	80.00	126.00
CA—CA—OQ	70.00	120.00
C—CB—NW	70.00	130.00
C—CB—NV	70.00	130.00
C—CB—NU	70.00	130.00
C—CB—NX	70.00	130.00

Angle type	$k_{\theta}$ (kcal mol <sup>-1</sup> rad <sup>-2</sup> )	$\theta_0$ (°)
CA—CB—NW	70.00	132.40
CA—CB—NV	70.00	132.40
CA—CB—NU	70.00	132.40
CA—CB—NX	70.00	132.40
CB—CB—NW	70.00	110.40
CB—CB—NV	70.00	110.40
CB—CB—NU	70.00	110.40
CB—CB—NX	70.00	110.40
CT—CC—NX	70.00	120.00
CT—CC—NU	70.00	120.00
CT—CC—NV	70.00	120.00
CT—CC—NW	70.00	120.00
CW—CC—NX	70.00	120.00
CW—CC—NU	70.00	120.00
CW—CC—NV	70.00	120.00
CW—CC—NW	70.00	120.00
H5—CK—NV	50.00	123.05
H5—CK—NU	50.00	123.05
H5—CK—NW	50.00	123.05
H5—CK—NX	50.00	123.05
N*—CK—NV	70.00	113.90
N*—CK—NU	70.00	113.90
N*—CK—NX	70.00	113.90
N*—CK—NW	70.00	113.90

Angle type	$k_{\theta}$ (kcal mol <sup>-1</sup> rad <sup>-2</sup> )	$\theta_0$ (°)
H5—CR—NX	50.00	120.00
H5—CR—NU	50.00	120.00
H5—CR—NV	50.00	120.00
H5—CR—NW	50.00	120.00
NA—CR—NX	70.00	120.00
NA—CR—NU	70.00	120.00
NA—CR—NV	70.00	120.00
NA—CR—NW	70.00	120.00
H1—CT—OQ	50.00	109.50
HC—CT—N	50.00	109.50
CT—CT—OQ	50.00	109.50
CC—CV—NW	70.00	120.00
CC—CV—NU	70.00	120.00
CC—CV—NV	70.00	120.00
CC—CV—NX	70.00	120.00
H4—CV—NW	50.00	120.00
H4—CV—NU	50.00	120.00
H4—CV—NX	50.00	120.00
H4—CV—NV	50.00	120.00
HX—HX—ON	0.00	33.38
HX—HX—OO	0.00	33.38
NW—N5—NX	61.42	90.10
NW—N5—OQ	41.30	153.90
NW—N5—ON	60.35	87.55

Angle type	$k_{\theta}$ (kcal mol <sup>-1</sup> rad <sup>-2</sup> )	$\theta_0$ (°)
NW—N5—OK	57.25	100.82
NX—N5—OK	56.14	98.61
NX—N5—OQ	51.72	95.16
NX—N5—ON	55.10	170.30
OK—N5—ON	53.15	91.08
OK—N5—OQ	31.31	103.61
ON—N5—OQ	55.74	82.99
NU—N6—OL	53.17	92.42
NU—N6—OB	54.52	93.41
NU—N6—OQ	62.91	101.42
NU—N6—OO	50.67	173.86
NU—N6—NV	51.57	93.09
NV—N6—OL	43.60	89.63
NV—N6—OB	69.52	90.41
NV—N6—OQ	53.79	165.37
NV—N6—OO	48.89	89.03
OB—N6—OL	50.49	174.16
OB—N6—OO	49.98	80.80
OB—N6—OQ	67.00	90.54
OL—N6—OO	50.11	93.36
OL—N6—OQ	34.52	87.95
OO—N6—OQ	62.89	76.71
CB—NU—CK	70.00	103.80
CB—NU—LP	50.00	126.00

Angle type	$k_{\theta}$ (kcal mol <sup>-1</sup> rad <sup>-2</sup> )	$\theta_0$ (°)
CC—NU—LP	50.00	126.00
CC—NU—CR	70.00	117.00
CK—NU—LP	50.00	126.00
CR—NU—CV	70.00	117.00
CR—NU—N6	71.60	124.90
CR—NU—LP	50.00	126.00
CV—NU—LP	50.00	126.00
CV—NU—N6	71.79	128.37
CB—NV—CK	70.00	103.80
CB—NV—LP	50.00	126.00
CC—NV—LP	50.00	126.00
CC—NV—CR	70.00	117.00
CK—NV—LP	50.00	126.00
CR—NV—CV	70.00	117.00
CR—NV—LP	50.00	126.00
CR—NV—N6	75.38	125.86
CV—NV—LP	50.00	126.00
CV—NV—N6	76.59	126.76
CB—NW—CK	70.00	103.80
CB—NW—LP	50.00	126.00
CC—NW—CR	70.00	117.00
CC—NW—LP	50.00	126.00
CC—NW—N5	98.53	132.82
CK—NW—LP	50.00	126.00

Angle type	$k_{\theta}$ (kcal mol <sup>-1</sup> rad <sup>-2</sup> )	$\theta_0$ (°)
CR—NW—CV	70.00	117.00
CR—NW—LP	50.00	126.00
CR—NW—N5	93.90	120.06
CV—NW—LP	50.00	126.00
CB—NX—CK	70.00	103.80
CB—NX—LP	50.00	126.00
CC—NX—CR	70.00	117.00
CC—NX—LP	50.00	126.00
CK—NX—LP	50.00	126.00
CR—NX—CV	70.00	117.00
CR—NX—LP	50.00	126.00
CR—NX—N5	75.95	124.52
CV—NX—LP	50.00	126.00
CV—NX—N5	75.69	128.87
C—OB—N6	99.84	124.88
C—OK—N5	85.19	119.16
C—OL—N6	68.61	118.74
HX—ON—HX	37.95	113.24
HX—ON—N5	35.32	104.60
HX—OO—HX	37.95	113.24
HX—OO—N6	22.15	87.20
C—OQ—HQ	50.00	113.00
C—OQ—LP	50.00	120.00
CA—OQ—HQ	50.00	113.00



Angle type	$k_{\theta}$ (kcal mol <sup>-1</sup> rad <sup>-2</sup> )	$\theta_0$ (°)
CT—OQ—HQ	55.00	108.50
CT—OQ—LP	50.00	109.50
HQ—OQ—LP	50.00	109.50
HQ—OQ—N5	34.81	122.26
HQ—OQ—N6	36.01	99.45
HQ—OQ—P	45.00	108.50
LP—OQ—LP	50.00	109.50
N5—OQ—N6	77.28	122.68
O2—P—OQ	45.00	108.23
OB—P—OB	40.00	119.90
OB—P—OH	45.00	108.23
OB—P—OQ	45.00	108.23
OB—P—OS	0.00	108.23
OH—P—OK	45.00	108.23
OH—P—OL	45.00	108.23
OH—P—OU	45.00	108.23
OK—P—OK	40.00	119.90
OK—P—OQ	45.00	108.23
OK—P—OS	0.00	108.23
OL—P—OL	40.00	119.90
OL—P—OQ	45.00	108.23
OL—P—OS	0.00	108.23
OQ—P—OS	45.00	102.60
OQ—P—OU	45.00	108.23

<b>Angle type</b>	<b><math>k_{\theta}</math> (kcal mol<sup>-1</sup> rad<sup>-2</sup>)</b>	<b><math>\theta_0</math> (°)</b>
OS—P—OU	0.00	108.23
OU—P—OU	40.00	119.90

Table 4. Proper dihedral parameters. Torsions whose parameters are neither given in this table nor specified in the default FF99SB force field, principally those involving one of the nickel ions, had no barrier associated with them.

Dihedral type	Scaling	$V$ (kcal mol <sup>-1</sup> )	Phase (°)	Periodicity
O—C—OQ—HQ	1	1.900	0.0	1
O—C—OQ—HQ	1	2.300	180.0	2
X—C—OQ—X	2	4.600	180.0	2
X—CA—OQ—X	2	1.800	180.0	2
X—CB—NU—X	2	5.100	180.0	2
X—CB—NV—X	2	5.100	180.0	2
X—CB—NW—X	2	5.100	180.0	2
X—CB—NX—X	2	5.100	180.0	2
X—CC—NU—X	2	4.800	180.0	2
X—CC—NV—X	2	4.800	180.0	2
X—CC—NW—X	2	4.800	180.0	2
X—CC—NX—X	2	4.800	180.0	2
X—CK—NU—X	2	20.000	180.0	2
X—CK—NV—X	2	20.000	180.0	2
X—CK—NW—X	2	20.000	180.0	2
X—CK—NX—X	2	20.000	180.0	2
X—CR—NU—X	2	10.000	180.0	2
X—CR—NV—X	2	10.000	180.0	2
X—CR—NW—X	2	10.000	180.0	2
X—CR—NX—X	2	10.000	180.0	2
H1—CT—CT—OQ	1	0.250	0.0	1
HC—CT—CT—OQ	1	0.250	0.0	1

Dihedral type	Scaling	$V$ (kcal mol <sup>-1</sup> )	Phase (°)	Periodicity
OQ—CT—CT—OQ	1	1.175	0.0	2
OQ—CT—CT—OQ	1	0.144	0.0	3
OQ—CT—CT—OS	1	1.175	0.0	2
OQ—CT—CT—OS	1	0.144	0.0	3
CT—CT—OQ—HQ	1	0.250	0.0	1
CT—CT—OQ—HQ	1	0.160	0.0	3
X—CT—OQ—X	3	0.500	0.0	3
X—CV—NU—X	2	4.800	180.0	2
X—CV—NV—X	2	4.800	180.0	2
X—CV—NW—X	2	4.800	180.0	2
X—CV—NX—X	2	4.800	180.0	2
X—OQ—P—X	3	0.750	0.0	3
CT—OS—P—OQ	1	1.200	0.0	2
CT—OS—P—OQ	1	0.250	0.0	3

Table 5. Improper dihedral parameters.

<b>Improper dihedral type</b>	<b>V (kcal mol<sup>-1</sup>)</b>	<b>Phase (°)</b>	<b>Periodicity</b>
CA—CA—C—OQ	1.100	180.0	2
CT—O—C—OQ	10.500	180.0	2
H5—O—C—OQ	1.100	180.0	2
X—OB—C—OB	10.500	180.0	2
X—OK—C—OK	10.500	180.0	2
X—OL—C—OL	10.500	180.0	2
X—OU—C—OU	10.500	180.0	2
CA—CA—CA—OQ	1.100	180.0	2
CT—CW—CC—NU	1.100	180.0	2
CT—CW—CC—NV	1.100	180.0	2
CT—CW—CC—NW	1.100	180.0	2
CT—CW—CC—NX	1.100	180.0	2

Table 6. Atomic partial charges.

<b>Residue</b>	<b>Element</b>	<b>Atom name</b>	<b>Partial charge (e)</b>
NI1	Ni	NI	1.27465
NI2	Ni	NI	0.27155
A21	N	N	-0.51630
A21	H	H	0.29360
A21	C	CA	0.03810
A21	H	HA	0.08800
A21	C	CB	0.13092
A21	H	HB2	-0.00456
A21	H	HB3	-0.00456
A21	C	CG	0.60604
A21	O	OD1	-0.45860
A21	O	OD2	-0.65369
A21	C	C	0.53660
A21	O	O	-0.58190
H11	N	N	-0.41570
H11	H	H	0.27190
H11	C	CA	-0.05810
H11	H	HA	0.13600
H11	C	CB	0.14676
H11	H	HB2	0.02306
H11	H	HB3	0.02306
H11	C	CG	0.13059
H11	N	ND1	-0.49302

<b>Residue</b>	<b>Element</b>	<b>Atom name</b>	<b>Partial charge (e)</b>
H11	C	CE1	0.00072
H11	H	HE1	0.11114
H11	N	NE2	-0.06355
H11	H	HE2	0.30639
H11	C	CD2	-0.25264
H11	H	HD2	0.22361
H11	C	C	0.59730
H11	O	O	-0.56790
H12	N	N	-0.41570
H12	H	H	0.27190
H12	C	CA	0.01880
H12	H	HA	0.08810
H12	C	CB	0.08143
H12	H	HB2	0.00676
H12	H	HB3	0.00676
H12	C	CG	0.06831
H12	N	ND1	-0.20358
H12	H	HD1	0.38070
H12	C	CE1	0.14467
H12	H	HE1	0.06255
H12	N	NE2	-0.50629
H12	C	CD2	-0.05762
H12	H	HD2	0.10469
H12	C	C	0.59730

<b>Residue</b>	<b>Element</b>	<b>Atom name</b>	<b>Partial charge (e)</b>
H12	O	O	-0.56790
H21	N	N	-0.41570
H21	H	H	0.27190
H21	C	CA	0.01880
H21	H	HA	0.08810
H21	C	CB	0.03928
H21	H	HB2	0.01718
H21	H	HB3	0.01718
H21	C	CG	-0.00577
H21	N	ND1	-0.18614
H21	H	HD1	0.29486
H21	C	CE1	0.02593
H21	H	HE1	0.17862
H21	N	NE2	0.00636
H21	C	CD2	-0.29529
H21	H	HD2	0.24205
H21	C	C	0.59730
H21	O	O	-0.56790
H22	N	N	-0.41570
H22	H	H	0.27190
H22	C	CA	0.01880
H22	H	HA	0.08810
H22	C	CB	0.01769
H22	H	HB2	0.06181



<b>Residue</b>	<b>Element</b>	<b>Atom name</b>	<b>Partial charge (e)</b>
H22	H	HB3	0.06181
H22	C	CG	-0.02373
H22	N	ND1	-0.22596
H22	H	HD1	0.32242
H22	C	CE1	-0.07437
H22	H	HE1	0.17627
H22	N	NE2	-0.09067
H22	C	CD2	0.02037
H22	H	HD2	0.03997
H22	C	C	0.59730
H22	O	O	-0.56790
KCB	N	N	-0.34790
KCB	H	H	0.27470
KCB	C	CA	-0.24000
KCB	H	HA	0.14260
KCB	C	CB	-0.10064
KCB	H	HB2	0.07462
KCB	H	HB3	0.07462
KCB	C	CG	-0.03603
KCB	H	HG2	0.03394
KCB	H	HG3	0.03394
KCB	C	CD	-0.11262
KCB	H	HD2	0.06026
KCB	H	HD3	0.06026

<b>Residue</b>	<b>Element</b>	<b>Atom name</b>	<b>Partial charge (e)</b>
KCB	C	CE	-0.07196
KCB	H	HE2	0.07319
KCB	H	HE3	0.07319
KCB	N	NZ	-0.23030
KCB	H	HZ1 (HZ in open flap)	0.24495
KCB	C	CX	0.43426
KCB	O	OX1 (OQ1 in open flap)	-0.64076
KCB	O	OX2 (OQ2 in open flap)	-0.48356
KCB	C	C	0.73410
KCB	O	O	-0.58940
ON1	H	H1	0.38462
ON1	O	O	-0.67193
ON1	H	H2	0.38462
ON2	H	H1	0.28631
ON2	O	O	-0.34191
ON2	H	H2	0.28631
ONB	O	O	-1.09258
ONB	H	H1	0.47786

Table 7. Composition of the closed-flap simulation.

<i>Molecule or assembly</i>	<i>Number of instances</i>	<i>Number of atoms per instance</i>	<i>Total number of atoms</i>
Protein	1	34,686	34,686
Na <sup>+</sup>	318	1	318
Cl <sup>-</sup>	246	1	246
Water	69,361	3	208,083
<b>Total</b>			<b>243,333</b>

Table 8. Composition of the open-flap simulation.

<i>Molecule or assembly</i>	<i>Number of instances</i>	<i>Number of atoms per instance</i>	<i>Total number of atoms</i>
Protein	1	34,734	34,734
Na <sup>+</sup>	318	1	318
Cl <sup>-</sup>	243	1	243
Water	69,971	3	209,913
<b>Total</b>			<b>245,208</b>

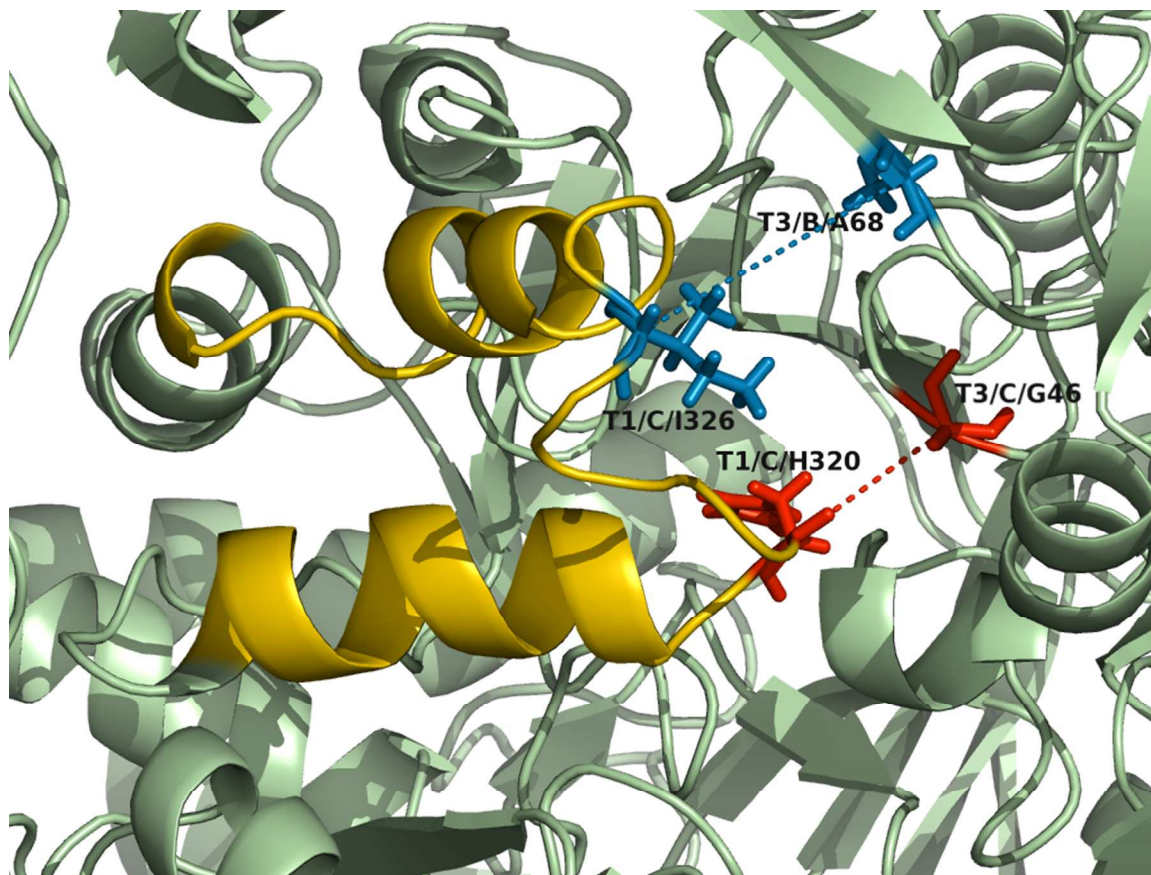


Figure 4. The two distances used to prepare the relative free energy map. Distances are measured between the carbon atoms of the indicated residues. The distance from H320 to G46 is  $r_{HG}$ , and that from I326 to A68 is  $r_{IA}$ .

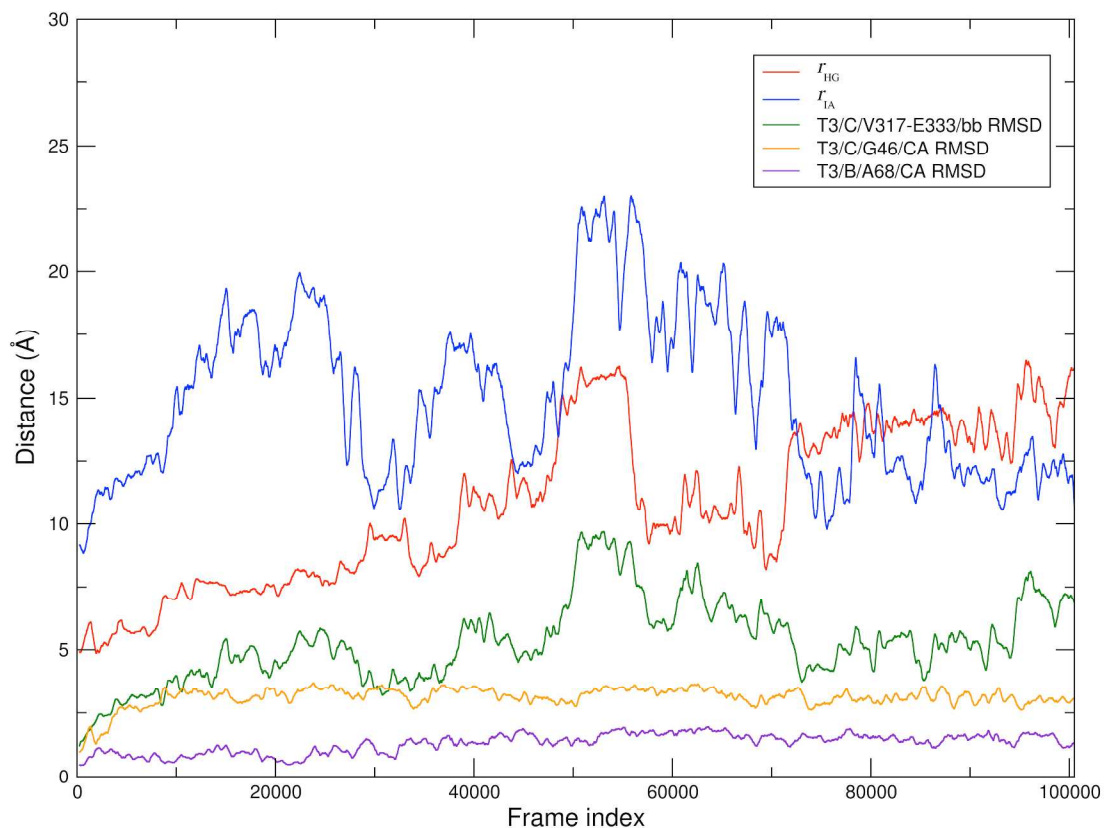


Figure 5. Comparison of the distances used to construct the relative free energy map with selected RMS deviations. The distances shown in this graph are (a)  $r_{HG}$ , (b)  $r_{IA}$  (see Figure 4), (c) the RMSD of the backbone atoms (carbonyl carbon,  $\alpha$  carbon, amide nitrogen) in residues V317 to E333 of chain C in trimer 3, comprising the flap that opens up into the wide-open conformation, and the RMSDs of the  $\alpha$  carbon atoms in (d) G46 of chain C in trimer 2 and (e) A68 of chain B in trimer 2. To reduce noise, the distances shown here are centered moving averages over 500 points.

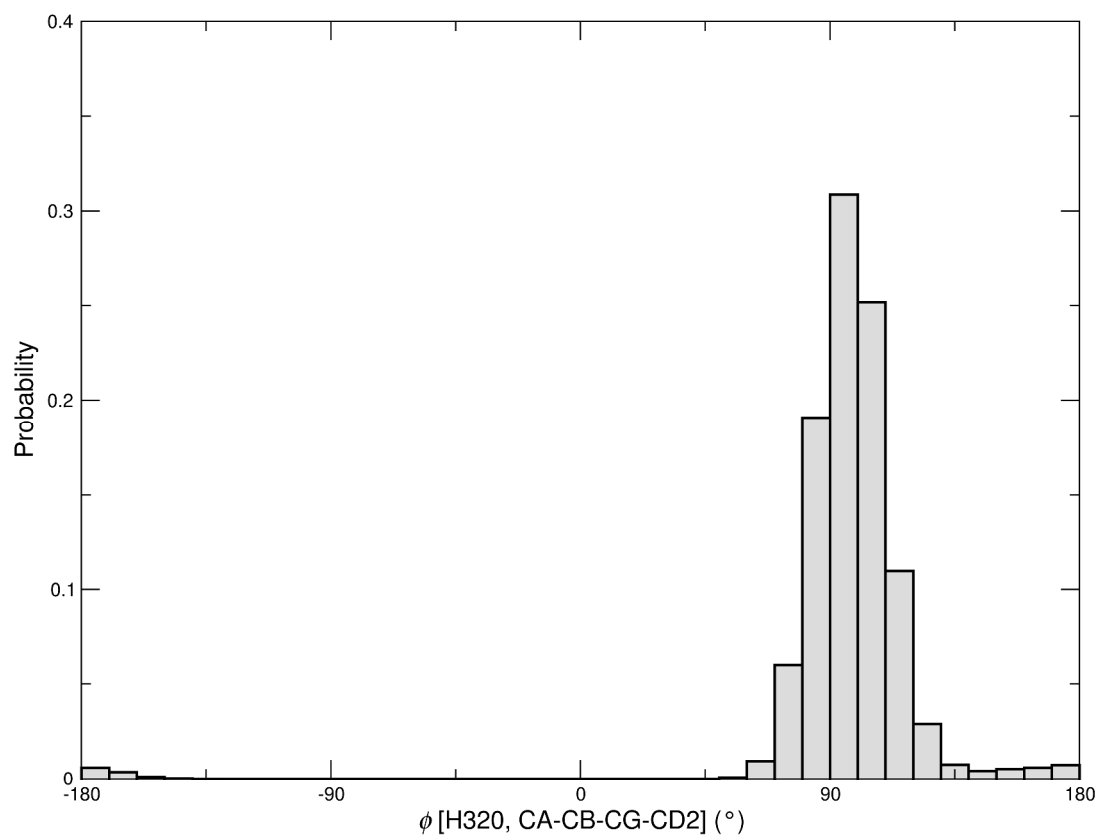


Figure 6. Distribution of the  $C_{\alpha}-C_{\beta}-C_{\gamma}-C_{\delta 2}$  dihedral angle of His 320 in a closed-flap situation. Snapshots were taken from the closed-flap simulation.

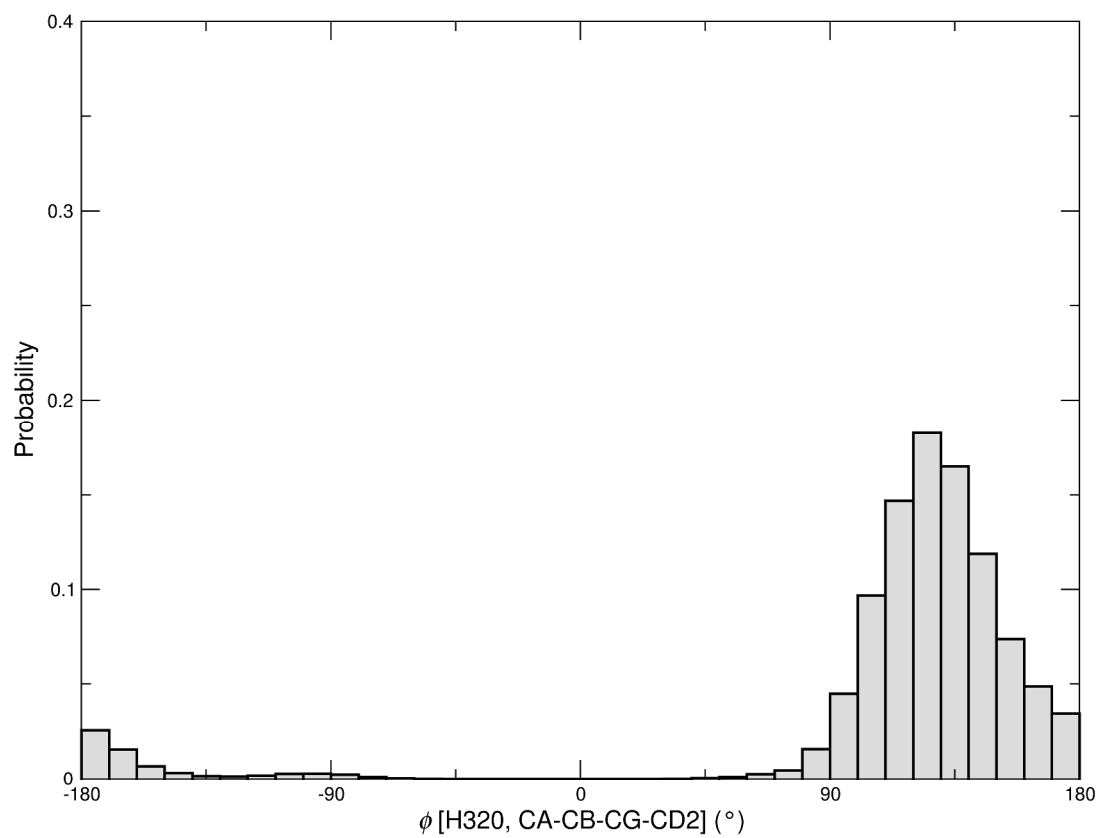


Figure 7. Distribution of the  $C_{\alpha}$ — $C_{\beta}$ — $C_{\gamma}$ — $C_{\delta 2}$  dihedral angle of His 320 in an open-flap situation. Snapshots were taken from the closed-flap simulation.

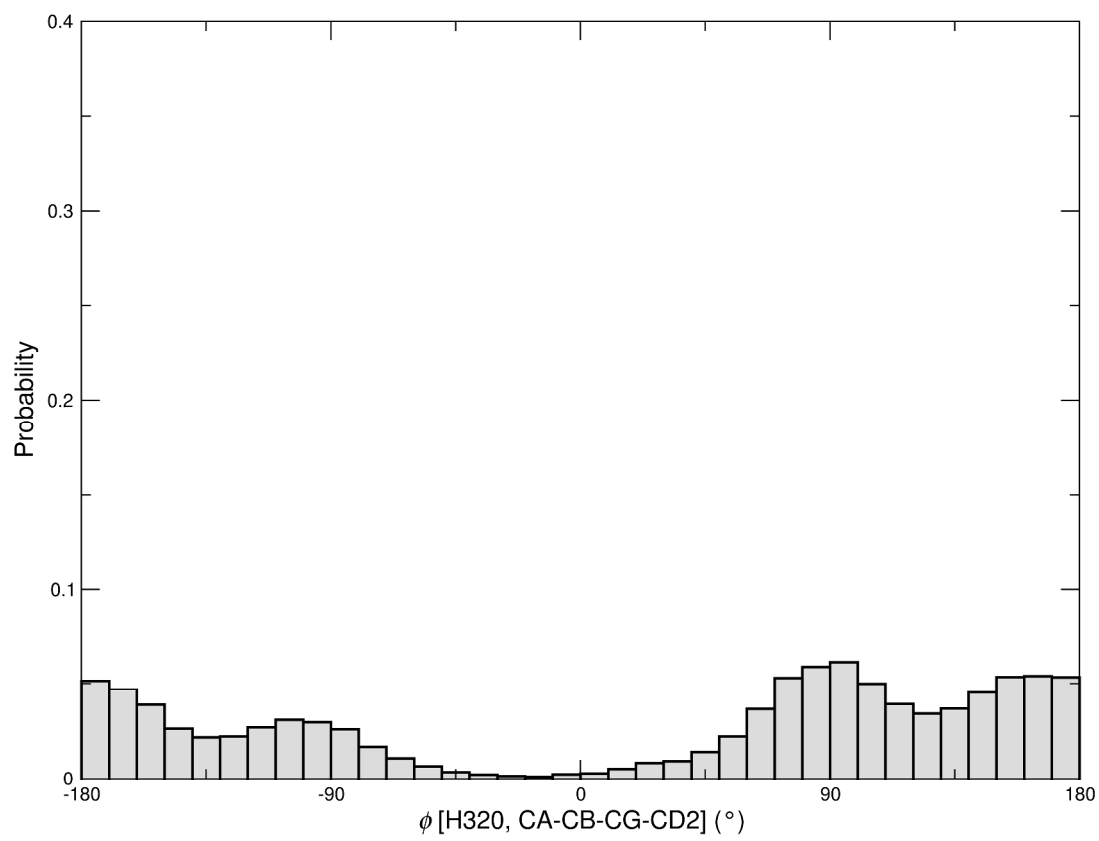


Figure 8. Distribution of the  $C_{\alpha}-C_{\beta}-C_{\gamma}-C_{\delta 2}$  dihedral angle of His 320 in a wide-open-flap situation. Snapshots were taken from the closed-flap simulation.



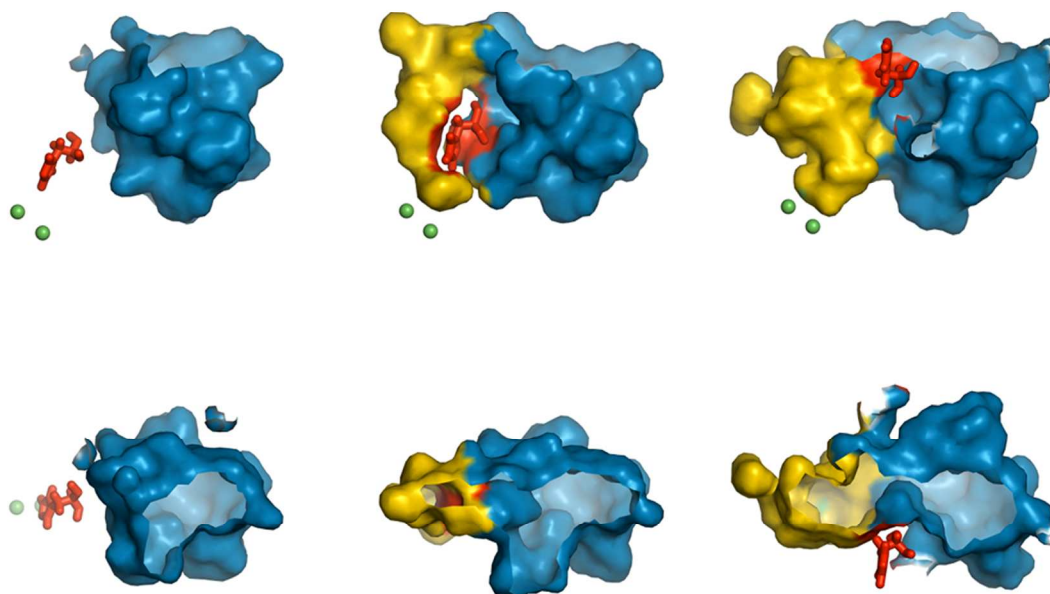


Figure 9. The position of the His 320 residue in the closed (left), open (centre) and wide-open (right) conformations of urease. His 320 is shown in red, and the remainder of the active site and ancillary pocket are coloured yellow and blue respectively. Nickel ions, where visible, are shown as green spheres. The first row shows a view from the top, looking down in the binding site, and the second row shows the pockets from the side.



Table 9. Degrees of sequence identity between HP, KA, BP and JB ureases. The identity of the entire protein sequence is shown in this table, as a reference for calculating conservation.

	HP	KA	BP	JB
KA	60.23%			
BP	59.14%	64.49%		
JB	56.45%	59.19%	55.95%	

Table 10. Degree of sequence identity between flap regions (bold residues in Figure 10) in the selected ureases.

	HP	KA	BP	JB
KA	69.70%			
BP	72.73%	81.82%		
JB	66.67%	78.79%	78.79%	

Table 11. Degree of sequence identity between significant residues in ancillary pockets (coloured residues in Figure 10) in the selected ureases. Residues are only included if in at least three of the four ureases the residue at the corresponding position is also making a significant contribution. (For sequence-identity purposes, if the residue in the remaining protein does not make a significant contribution to the ancillary pocket, it is treated as a gap.)

	HP	KA	BP	JB
KA	61.29%			
BP	46.67%	56.67%		
JB	50.00%	46.67%	44.83%	

REMARK 1 PDB of *K. aerogenes* urease with wide-open flap

ATOM	1	NI	NI1	1	51.287	82.183	93.525	0.00	0.00
ATOM	2	NI	NI2	2	53.370	81.199	91.023	0.00	0.00
ATOM	3	N	MEN	3	95.982	66.424	69.584	0.00	0.00
ATOM	4	H1	MEN	3	96.885	66.524	70.025	0.00	0.00
ATOM	5	H2	MEN	3	95.814	67.319	69.149	0.00	0.00
ATOM	6	H3	MEN	3	95.984	65.730	68.850	0.00	0.00
ATOM	7	CA	MEN	3	94.862	66.064	70.433	0.00	0.00
ATOM	8	HA	MEN	3	95.162	65.171	70.981	0.00	0.00
ATOM	9	CB	MEN	3	94.747	67.089	71.594	0.00	0.00
ATOM	10	HB2	MEN	3	95.601	67.746	71.762	0.00	0.00
ATOM	11	HB3	MEN	3	93.967	67.821	71.388	0.00	0.00
ATOM	12	CG	MEN	3	94.458	66.323	72.869	0.00	0.00
ATOM	13	HG2	MEN	3	95.191	65.551	73.101	0.00	0.00
ATOM	14	HG3	MEN	3	94.515	67.056	73.674	0.00	0.00
ATOM	15	SD	MEN	3	92.957	65.432	72.935	0.00	0.00
ATOM	16	CE	MEN	3	92.873	65.115	74.780	0.00	0.00
ATOM	17	HE1	MEN	3	91.910	64.657	75.006	0.00	0.00
ATOM	18	HE2	MEN	3	93.600	64.342	75.031	0.00	0.00
ATOM	19	HE3	MEN	3	93.065	66.009	75.374	0.00	0.00
ATOM	20	C	MEN	3	93.472	65.811	69.761	0.00	0.00
ATOM	21	O	MEN	3	93.175	64.658	69.499	0.00	0.00
ATOM	22	N	GLU	4	92.831	66.891	69.333	0.00	0.00
ATOM	23	H	GLU	4	93.398	67.723	69.422	0.00	0.00
ATOM	24	CA	GLU	4	91.673	66.754	68.464	0.00	0.00
ATOM	25	HA	GLU	4	91.164	67.717	68.487	0.00	0.00

ATOM	26	CB	GLU	4	92.050	66.568	66.930	0.00	0.00
ATOM	27	HB2	GLU	4	92.630	65.690	66.647	0.00	0.00
ATOM	28	HB3	GLU	4	91.167	66.443	66.305	0.00	0.00
ATOM	29	CG	GLU	4	92.715	67.832	66.415	0.00	0.00
ATOM	30	HG2	GLU	4	92.680	67.906	65.328	0.00	0.00
ATOM	31	HG3	GLU	4	92.333	68.750	66.860	0.00	0.00
ATOM	32	CD	GLU	4	94.225	67.873	66.710	0.00	0.00
ATOM	33	OE1	GLU	4	95.079	67.429	65.899	0.00	0.00
ATOM	34	OE2	GLU	4	94.648	68.405	67.769	0.00	0.00
ATOM	35	C	GLU	4	90.562	65.821	69.001	0.00	0.00
ATOM	36	O	GLU	4	90.156	64.742	68.544	0.00	0.00
ATOM	37	N	LEU	5	90.123	66.195	70.303	0.00	0.00
ATOM	38	H	LEU	5	90.537	67.017	70.719	0.00	0.00
ATOM	39	CA	LEU	5	89.083	65.332	70.980	0.00	0.00
ATOM	40	HA	LEU	5	89.475	64.318	70.900	0.00	0.00
ATOM	41	CB	LEU	5	88.973	65.754	72.484	0.00	0.00
ATOM	42	HB2	LEU	5	89.948	65.942	72.933	0.00	0.00
ATOM	43	HB3	LEU	5	88.442	66.702	72.572	0.00	0.00
ATOM	44	CG	LEU	5	88.232	64.653	73.266	0.00	0.00
ATOM	45	HG	LEU	5	87.388	64.214	72.736	0.00	0.00
ATOM	46	CD1	LEU	5	89.147	63.472	73.593	0.00	0.00
ATOM	47	1HD1	LEU	5	89.317	62.941	72.656	0.00	0.00
ATOM	48	2HD1	LEU	5	90.090	63.917	73.909	0.00	0.00
ATOM	49	3HD1	LEU	5	88.751	62.839	74.388	0.00	0.00
ATOM	50	CD2	LEU	5	87.815	65.231	74.577	0.00	0.00
ATOM	51	1HD2	LEU	5	88.702	65.443	75.174	0.00	0.00

ATOM	52	2HD2	LEU	5	87.380	66.230	74.620	0.00	0.00
ATOM	53	3HD2	LEU	5	87.191	64.462	75.033	0.00	0.00
ATOM	54	C	LEU	5	87.654	65.338	70.266	0.00	0.00
ATOM	55	O	LEU	5	87.031	66.379	69.912	0.00	0.00
ATOM	56	N	THR	6	87.059	64.109	70.133	0.00	0.00
ATOM	57	H	THR	6	87.545	63.339	70.570	0.00	0.00
ATOM	58	CA	THR	6	85.748	63.906	69.478	0.00	0.00
ATOM	59	HA	THR	6	85.561	64.809	68.897	0.00	0.00
ATOM	60	CB	THR	6	85.795	62.751	68.488	0.00	0.00
ATOM	61	HB	THR	6	84.769	62.670	68.129	0.00	0.00
ATOM	62	CG2	THR	6	86.782	63.002	67.367	0.00	0.00
ATOM	63	1HG2	THR	6	86.860	62.093	66.771	0.00	0.00
ATOM	64	2HG2	THR	6	86.452	63.811	66.715	0.00	0.00
ATOM	65	3HG2	THR	6	87.789	63.267	67.692	0.00	0.00
ATOM	66	OG1	THR	6	86.057	61.534	69.112	0.00	0.00
ATOM	67	HG1	THR	6	86.943	61.720	69.430	0.00	0.00
ATOM	68	C	THR	6	84.481	63.759	70.361	0.00	0.00
ATOM	69	O	THR	6	84.450	63.304	71.445	0.00	0.00
ATOM	70	N	PRO	7	83.266	63.784	69.694	0.00	0.00
ATOM	71	CD	PRO	7	83.019	64.497	68.512	0.00	0.00
ATOM	72	HD2	PRO	7	83.760	64.296	67.739	0.00	0.00
ATOM	73	HD3	PRO	7	83.032	65.538	68.832	0.00	0.00
ATOM	74	CG	PRO	7	81.647	64.060	68.053	0.00	0.00
ATOM	75	HG2	PRO	7	81.176	64.765	67.368	0.00	0.00
ATOM	76	HG3	PRO	7	81.727	63.077	67.590	0.00	0.00
ATOM	77	CB	PRO	7	80.833	63.906	69.350	0.00	0.00

ATOM	78	HB2 PRO	7	80.129	64.708	69.573	0.00	0.00
ATOM	79	HB3 PRO	7	80.245	62.996	69.223	0.00	0.00
ATOM	80	CA PRO	7	81.966	63.644	70.380	0.00	0.00
ATOM	81	HA PRO	7	81.873	64.435	71.125	0.00	0.00
ATOM	82	C PRO	7	81.763	62.318	71.071	0.00	0.00
ATOM	83	O PRO	7	81.316	62.328	72.216	0.00	0.00
ATOM	84	N ARG	8	82.063	61.148	70.451	0.00	0.00
ATOM	85	H ARG	8	82.393	61.256	69.503	0.00	0.00
ATOM	86	CA ARG	8	81.978	59.838	71.072	0.00	0.00
ATOM	87	HA ARG	8	80.939	59.742	71.387	0.00	0.00
ATOM	88	CB ARG	8	82.334	58.632	70.156	0.00	0.00
ATOM	89	HB2 ARG	8	82.036	57.748	70.720	0.00	0.00
ATOM	90	HB3 ARG	8	81.764	58.747	69.234	0.00	0.00
ATOM	91	CG ARG	8	83.767	58.503	69.747	0.00	0.00
ATOM	92	HG2 ARG	8	84.216	57.834	70.481	0.00	0.00
ATOM	93	HG3 ARG	8	84.236	59.487	69.736	0.00	0.00
ATOM	94	CD ARG	8	84.058	57.870	68.383	0.00	0.00
ATOM	95	HD2 ARG	8	85.132	57.796	68.214	0.00	0.00
ATOM	96	HD3 ARG	8	83.589	56.887	68.340	0.00	0.00
ATOM	97	NE ARG	8	83.642	58.798	67.344	0.00	0.00
ATOM	98	HE ARG	8	82.861	59.381	67.610	0.00	0.00
ATOM	99	CZ ARG	8	84.030	58.884	66.075	0.00	0.00
ATOM	100	NH1 ARG	8	83.656	60.036	65.525	0.00	0.00
ATOM	101	1HH1 ARG	8	84.124	60.422	64.717	0.00	0.00
ATOM	102	2HH1 ARG	8	82.842	60.399	66.001	0.00	0.00
ATOM	103	NH2 ARG	8	84.885	58.173	65.456	0.00	0.00

ATOM	104	1HH2	ARG	8	84.794	58.195	64.450	0.00	0.00
ATOM	105	2HH2	ARG	8	85.192	57.332	65.923	0.00	0.00
ATOM	106	C	ARG	8	82.823	59.731	72.350	0.00	0.00
ATOM	107	O	ARG	8	82.423	59.114	73.309	0.00	0.00
ATOM	108	N	GLU	9	84.012	60.327	72.252	0.00	0.00
ATOM	109	H	GLU	9	84.086	60.820	71.374	0.00	0.00
ATOM	110	CA	GLU	9	85.051	60.463	73.320	0.00	0.00
ATOM	111	HA	GLU	9	85.269	59.487	73.754	0.00	0.00
ATOM	112	CB	GLU	9	86.408	61.128	72.896	0.00	0.00
ATOM	113	HB2	GLU	9	86.138	62.080	72.439	0.00	0.00
ATOM	114	HB3	GLU	9	87.103	61.307	73.717	0.00	0.00
ATOM	115	CG	GLU	9	87.156	60.224	71.871	0.00	0.00
ATOM	116	HG2	GLU	9	87.446	59.326	72.417	0.00	0.00
ATOM	117	HG3	GLU	9	86.523	60.025	71.006	0.00	0.00
ATOM	118	CD	GLU	9	88.427	60.872	71.313	0.00	0.00
ATOM	119	OE1	GLU	9	89.490	60.616	71.880	0.00	0.00
ATOM	120	OE2	GLU	9	88.351	61.704	70.321	0.00	0.00
ATOM	121	C	GLU	9	84.395	61.254	74.485	0.00	0.00
ATOM	122	O	GLU	9	84.236	60.651	75.553	0.00	0.00
ATOM	123	N	LYS	10	83.882	62.481	74.273	0.00	0.00
ATOM	124	H	LYS	10	84.035	62.896	73.365	0.00	0.00
ATOM	125	CA	LYS	10	83.207	63.289	75.354	0.00	0.00
ATOM	126	HA	LYS	10	83.886	63.478	76.185	0.00	0.00
ATOM	127	CB	LYS	10	82.751	64.665	74.886	0.00	0.00
ATOM	128	HB2	LYS	10	81.890	64.605	74.220	0.00	0.00
ATOM	129	HB3	LYS	10	82.288	65.171	75.733	0.00	0.00



ATOM	130	CG	LYS	10	83.865	65.597	74.371	0.00	0.00
ATOM	131	HG2	LYS	10	84.567	65.765	75.188	0.00	0.00
ATOM	132	HG3	LYS	10	84.375	65.170	73.508	0.00	0.00
ATOM	133	CD	LYS	10	83.187	66.922	74.085	0.00	0.00
ATOM	134	HD2	LYS	10	82.477	66.620	73.315	0.00	0.00
ATOM	135	HD3	LYS	10	82.724	67.355	74.972	0.00	0.00
ATOM	136	CE	LYS	10	84.160	67.868	73.351	0.00	0.00
ATOM	137	HE2	LYS	10	84.915	68.214	74.057	0.00	0.00
ATOM	138	HE3	LYS	10	84.559	67.381	72.461	0.00	0.00
ATOM	139	NZ	LYS	10	83.330	68.972	72.803	0.00	0.00
ATOM	140	HZ1	LYS	10	82.805	68.550	72.051	0.00	0.00
ATOM	141	HZ2	LYS	10	82.713	69.362	73.502	0.00	0.00
ATOM	142	HZ3	LYS	10	83.845	69.716	72.355	0.00	0.00
ATOM	143	C	LYS	10	82.054	62.567	75.992	0.00	0.00
ATOM	144	O	LYS	10	81.857	62.646	77.170	0.00	0.00
ATOM	145	N	ASP	11	81.326	61.723	75.324	0.00	0.00
ATOM	146	H	ASP	11	81.682	61.471	74.414	0.00	0.00
ATOM	147	CA	ASP	11	80.225	60.922	75.932	0.00	0.00
ATOM	148	HA	ASP	11	79.418	61.522	76.352	0.00	0.00
ATOM	149	CB	ASP	11	79.466	60.303	74.729	0.00	0.00
ATOM	150	HB2	ASP	11	80.076	59.517	74.284	0.00	0.00
ATOM	151	HB3	ASP	11	79.408	61.050	73.938	0.00	0.00
ATOM	152	CG	ASP	11	78.008	59.894	74.992	0.00	0.00
ATOM	153	OD1	ASP	11	77.576	58.801	74.547	0.00	0.00
ATOM	154	OD2	ASP	11	77.275	60.824	75.437	0.00	0.00
ATOM	155	C	ASP	11	80.695	59.850	76.898	0.00	0.00

ATOM	156	O	ASP	11	80.153	59.594	77.998	0.00	0.00
ATOM	157	N	LYS	12	81.713	59.101	76.473	0.00	0.00
ATOM	158	H	LYS	12	82.000	59.159	75.506	0.00	0.00
ATOM	159	CA	LYS	12	82.293	58.071	77.339	0.00	0.00
ATOM	160	HA	LYS	12	81.536	57.390	77.727	0.00	0.00
ATOM	161	CB	LYS	12	83.158	57.162	76.483	0.00	0.00
ATOM	162	HB2	LYS	12	83.825	57.816	75.923	0.00	0.00
ATOM	163	HB3	LYS	12	83.549	56.337	77.079	0.00	0.00
ATOM	164	CG	LYS	12	82.340	56.534	75.309	0.00	0.00
ATOM	165	HG2	LYS	12	81.564	55.955	75.811	0.00	0.00
ATOM	166	HG3	LYS	12	81.872	57.297	74.687	0.00	0.00
ATOM	167	CD	LYS	12	83.148	55.669	74.351	0.00	0.00
ATOM	168	HD2	LYS	12	83.925	56.340	73.985	0.00	0.00
ATOM	169	HD3	LYS	12	83.452	54.751	74.854	0.00	0.00
ATOM	170	CE	LYS	12	82.509	55.404	73.056	0.00	0.00
ATOM	171	HE2	LYS	12	81.914	56.288	72.827	0.00	0.00
ATOM	172	HE3	LYS	12	83.226	55.199	72.261	0.00	0.00
ATOM	173	NZ	LYS	12	81.676	54.192	73.164	0.00	0.00
ATOM	174	HZ1	LYS	12	81.165	54.286	74.031	0.00	0.00
ATOM	175	HZ2	LYS	12	80.916	54.200	72.499	0.00	0.00
ATOM	176	HZ3	LYS	12	82.159	53.305	73.177	0.00	0.00
ATOM	177	C	LYS	12	83.019	58.576	78.532	0.00	0.00
ATOM	178	O	LYS	12	83.200	57.879	79.536	0.00	0.00
ATOM	179	N	LEU	13	83.356	59.866	78.515	0.00	0.00
ATOM	180	H	LEU	13	83.237	60.323	77.622	0.00	0.00
ATOM	181	CA	LEU	13	83.884	60.720	79.554	0.00	0.00

ATOM	182	HA	LEU	13	84.517	60.103	80.192	0.00	0.00
ATOM	183	CB	LEU	13	84.768	61.788	78.964	0.00	0.00
ATOM	184	HB2	LEU	13	85.300	61.303	78.146	0.00	0.00
ATOM	185	HB3	LEU	13	84.167	62.534	78.442	0.00	0.00
ATOM	186	CG	LEU	13	85.679	62.719	79.751	0.00	0.00
ATOM	187	HG	LEU	13	85.056	63.323	80.410	0.00	0.00
ATOM	188	CD1	LEU	13	86.564	61.882	80.577	0.00	0.00
ATOM	189	1HD1	LEU	13	85.939	61.432	81.349	0.00	0.00
ATOM	190	2HD1	LEU	13	87.078	61.163	79.938	0.00	0.00
ATOM	191	3HD1	LEU	13	87.421	62.412	80.992	0.00	0.00
ATOM	192	CD2	LEU	13	86.515	63.748	78.985	0.00	0.00
ATOM	193	1HD2	LEU	13	87.163	64.297	79.669	0.00	0.00
ATOM	194	2HD2	LEU	13	87.115	63.158	78.292	0.00	0.00
ATOM	195	3HD2	LEU	13	85.832	64.376	78.413	0.00	0.00
ATOM	196	C	LEU	13	82.830	61.333	80.513	0.00	0.00
ATOM	197	O	LEU	13	83.158	61.629	81.661	0.00	0.00
ATOM	198	N	LEU	14	81.531	61.273	80.196	0.00	0.00
ATOM	199	H	LEU	14	81.271	60.868	79.308	0.00	0.00
ATOM	200	CA	LEU	14	80.405	61.404	81.120	0.00	0.00
ATOM	201	HA	LEU	14	80.665	62.190	81.829	0.00	0.00
ATOM	202	CB	LEU	14	79.113	61.680	80.386	0.00	0.00
ATOM	203	HB2	LEU	14	79.351	62.439	79.641	0.00	0.00
ATOM	204	HB3	LEU	14	78.994	60.747	79.834	0.00	0.00
ATOM	205	CG	LEU	14	77.835	61.995	81.141	0.00	0.00
ATOM	206	HG	LEU	14	77.553	61.308	81.939	0.00	0.00
ATOM	207	CD1	LEU	14	77.715	63.467	81.447	0.00	0.00

ATOM	208	1HD1	LEU	14	78.111	63.762	82.419	0.00	0.00
ATOM	209	2HD1	LEU	14	78.065	64.066	80.606	0.00	0.00
ATOM	210	3HD1	LEU	14	76.659	63.729	81.515	0.00	0.00
ATOM	211	CD2	LEU	14	76.761	61.743	80.051	0.00	0.00
ATOM	212	1HD2	LEU	14	76.701	62.613	79.398	0.00	0.00
ATOM	213	2HD2	LEU	14	76.908	60.905	79.370	0.00	0.00
ATOM	214	3HD2	LEU	14	75.786	61.561	80.502	0.00	0.00
ATOM	215	C	LEU	14	80.196	60.069	81.920	0.00	0.00
ATOM	216	O	LEU	14	79.948	60.129	83.144	0.00	0.00
ATOM	217	N	LEU	15	80.294	58.927	81.255	0.00	0.00
ATOM	218	H	LEU	15	80.612	59.012	80.300	0.00	0.00
ATOM	219	CA	LEU	15	80.257	57.669	81.979	0.00	0.00
ATOM	220	HA	LEU	15	79.280	57.740	82.458	0.00	0.00
ATOM	221	CB	LEU	15	80.225	56.421	81.018	0.00	0.00
ATOM	222	HB2	LEU	15	79.452	56.496	80.253	0.00	0.00
ATOM	223	HB3	LEU	15	81.189	56.473	80.513	0.00	0.00
ATOM	224	CG	LEU	15	80.087	54.994	81.624	0.00	0.00
ATOM	225	HG	LEU	15	80.873	54.813	82.357	0.00	0.00
ATOM	226	CD1	LEU	15	78.746	54.945	82.337	0.00	0.00
ATOM	227	1HD1	LEU	15	78.852	54.024	82.911	0.00	0.00
ATOM	228	2HD1	LEU	15	78.601	55.833	82.953	0.00	0.00
ATOM	229	3HD1	LEU	15	77.924	54.911	81.622	0.00	0.00
ATOM	230	CD2	LEU	15	80.089	53.948	80.503	0.00	0.00
ATOM	231	1HD2	LEU	15	80.376	52.939	80.798	0.00	0.00
ATOM	232	2HD2	LEU	15	79.079	53.972	80.095	0.00	0.00
ATOM	233	3HD2	LEU	15	80.847	54.203	79.762	0.00	0.00

ATOM	234	C	LEU	15	81.324	57.457	83.025	0.00	0.00
ATOM	235	O	LEU	15	81.059	56.911	84.108	0.00	0.00
ATOM	236	N	PHE	16	82.531	57.959	82.792	0.00	0.00
ATOM	237	H	PHE	16	82.730	58.253	81.847	0.00	0.00
ATOM	238	CA	PHE	16	83.599	57.976	83.831	0.00	0.00
ATOM	239	HA	PHE	16	83.798	57.003	84.280	0.00	0.00
ATOM	240	CB	PHE	16	84.857	58.519	83.196	0.00	0.00
ATOM	241	HB2	PHE	16	85.241	57.794	82.479	0.00	0.00
ATOM	242	HB3	PHE	16	84.650	59.395	82.581	0.00	0.00
ATOM	243	CG	PHE	16	85.941	58.955	84.211	0.00	0.00
ATOM	244	CD1	PHE	16	86.363	58.050	85.185	0.00	0.00
ATOM	245	HD1	PHE	16	85.886	57.082	85.133	0.00	0.00
ATOM	246	CE1	PHE	16	87.232	58.438	86.152	0.00	0.00
ATOM	247	HE1	PHE	16	87.579	57.696	86.855	0.00	0.00
ATOM	248	CZ	PHE	16	87.748	59.719	86.309	0.00	0.00
ATOM	249	HZ	PHE	16	88.613	60.020	86.882	0.00	0.00
ATOM	250	CE2	PHE	16	87.377	60.597	85.286	0.00	0.00
ATOM	251	HE2	PHE	16	87.798	61.591	85.331	0.00	0.00
ATOM	252	CD2	PHE	16	86.487	60.265	84.259	0.00	0.00
ATOM	253	HD2	PHE	16	86.254	61.062	83.567	0.00	0.00
ATOM	254	C	PHE	16	83.143	58.858	85.016	0.00	0.00
ATOM	255	O	PHE	16	83.266	58.423	86.175	0.00	0.00
ATOM	256	N	THR	17	82.579	60.102	84.795	0.00	0.00
ATOM	257	H	THR	17	82.357	60.532	83.909	0.00	0.00
ATOM	258	CA	THR	17	82.347	60.956	85.910	0.00	0.00
ATOM	259	HA	THR	17	83.283	60.870	86.462	0.00	0.00

ATOM	260	CB	THR	17	82.335	62.488	85.545	0.00	0.00
ATOM	261	HB	THR	17	82.001	63.071	86.403	0.00	0.00
ATOM	262	CG2	THR	17	83.689	62.972	85.098	0.00	0.00
ATOM	263	1HG2	THR	17	83.882	62.254	84.301	0.00	0.00
ATOM	264	2HG2	THR	17	83.697	64.017	84.791	0.00	0.00
ATOM	265	3HG2	THR	17	84.544	62.875	85.768	0.00	0.00
ATOM	266	OG1	THR	17	81.581	62.872	84.356	0.00	0.00
ATOM	267	HG1	THR	17	81.578	63.830	84.287	0.00	0.00
ATOM	268	C	THR	17	81.323	60.456	86.871	0.00	0.00
ATOM	269	O	THR	17	81.576	60.458	88.078	0.00	0.00
ATOM	270	N	ALA	18	80.252	59.855	86.348	0.00	0.00
ATOM	271	H	ALA	18	80.166	59.942	85.345	0.00	0.00
ATOM	272	CA	ALA	18	79.185	59.162	87.072	0.00	0.00
ATOM	273	HA	ALA	18	78.823	59.857	87.830	0.00	0.00
ATOM	274	CB	ALA	18	78.090	58.893	86.038	0.00	0.00
ATOM	275	HB1	ALA	18	77.760	59.707	85.393	0.00	0.00
ATOM	276	HB2	ALA	18	78.378	58.101	85.346	0.00	0.00
ATOM	277	HB3	ALA	18	77.216	58.514	86.568	0.00	0.00
ATOM	278	C	ALA	18	79.667	57.873	87.809	0.00	0.00
ATOM	279	O	ALA	18	79.326	57.484	88.937	0.00	0.00
ATOM	280	N	ALA	19	80.611	57.121	87.227	0.00	0.00
ATOM	281	H	ALA	19	80.963	57.438	86.335	0.00	0.00
ATOM	282	CA	ALA	19	81.391	55.967	87.828	0.00	0.00
ATOM	283	HA	ALA	19	80.667	55.248	88.210	0.00	0.00
ATOM	284	CB	ALA	19	82.081	55.267	86.756	0.00	0.00
ATOM	285	HB1	ALA	19	82.596	54.359	87.069	0.00	0.00

ATOM	286	HB2 ALA	19	81.303	55.003	86.040	0.00	0.00
ATOM	287	HB3 ALA	19	82.818	55.878	86.236	0.00	0.00
ATOM	288	C ALA	19	82.281	56.406	89.031	0.00	0.00
ATOM	289	O ALA	19	82.205	55.737	90.063	0.00	0.00
ATOM	290	N LEU	20	82.974	57.563	88.946	0.00	0.00
ATOM	291	H LEU	20	83.082	57.980	88.033	0.00	0.00
ATOM	292	CA LEU	20	83.671	58.208	90.077	0.00	0.00
ATOM	293	HA LEU	20	84.354	57.458	90.474	0.00	0.00
ATOM	294	CB LEU	20	84.582	59.295	89.440	0.00	0.00
ATOM	295	HB2 LEU	20	85.046	58.776	88.602	0.00	0.00
ATOM	296	HB3 LEU	20	83.933	60.111	89.123	0.00	0.00
ATOM	297	CG LEU	20	85.641	59.810	90.370	0.00	0.00
ATOM	298	HG LEU	20	85.212	60.040	91.345	0.00	0.00
ATOM	299	CD1 LEU	20	86.588	58.647	90.773	0.00	0.00
ATOM	300	1HD1 LEU	20	87.568	58.982	91.114	0.00	0.00
ATOM	301	2HD1 LEU	20	86.217	58.088	91.632	0.00	0.00
ATOM	302	3HD1 LEU	20	86.900	58.060	89.909	0.00	0.00
ATOM	303	CD2 LEU	20	86.431	60.970	89.704	0.00	0.00
ATOM	304	1HD2 LEU	20	86.545	60.664	88.664	0.00	0.00
ATOM	305	2HD2 LEU	20	85.952	61.943	89.808	0.00	0.00
ATOM	306	3HD2 LEU	20	87.386	61.129	90.205	0.00	0.00
ATOM	307	C LEU	20	82.767	58.663	91.242	0.00	0.00
ATOM	308	O LEU	20	83.123	58.500	92.366	0.00	0.00
ATOM	309	N VAL	21	81.598	59.234	90.886	0.00	0.00
ATOM	310	H VAL	21	81.491	59.261	89.882	0.00	0.00
ATOM	311	CA VAL	21	80.484	59.549	91.832	0.00	0.00

ATOM	312	HA	VAL	21	80.877	60.246	92.572	0.00	0.00
ATOM	313	CB	VAL	21	79.325	60.328	91.155	0.00	0.00
ATOM	314	HB	VAL	21	79.114	59.794	90.229	0.00	0.00
ATOM	315	CG1	VAL	21	78.031	60.329	91.965	0.00	0.00
ATOM	316	1HG1	VAL	21	77.424	61.105	91.499	0.00	0.00
ATOM	317	2HG1	VAL	21	77.582	59.336	91.946	0.00	0.00
ATOM	318	3HG1	VAL	21	78.317	60.548	92.993	0.00	0.00
ATOM	319	CG2	VAL	21	79.767	61.766	90.864	0.00	0.00
ATOM	320	1HG2	VAL	21	80.106	62.217	91.796	0.00	0.00
ATOM	321	2HG2	VAL	21	80.572	61.699	90.132	0.00	0.00
ATOM	322	3HG2	VAL	21	78.890	62.266	90.454	0.00	0.00
ATOM	323	C	VAL	21	79.994	58.286	92.644	0.00	0.00
ATOM	324	O	VAL	21	79.971	58.292	93.864	0.00	0.00
ATOM	325	N	ALA	22	79.784	57.194	91.915	0.00	0.00
ATOM	326	H	ALA	22	79.735	57.280	90.910	0.00	0.00
ATOM	327	CA	ALA	22	79.330	55.900	92.456	0.00	0.00
ATOM	328	HA	ALA	22	78.464	56.060	93.098	0.00	0.00
ATOM	329	CB	ALA	22	78.992	54.996	91.263	0.00	0.00
ATOM	330	HB1	ALA	22	79.843	54.856	90.598	0.00	0.00
ATOM	331	HB2	ALA	22	78.606	54.083	91.716	0.00	0.00
ATOM	332	HB3	ALA	22	78.194	55.465	90.688	0.00	0.00
ATOM	333	C	ALA	22	80.344	55.206	93.348	0.00	0.00
ATOM	334	O	ALA	22	79.989	54.817	94.448	0.00	0.00
ATOM	335	N	GLU	23	81.626	55.126	92.937	0.00	0.00
ATOM	336	H	GLU	23	81.851	55.448	92.006	0.00	0.00
ATOM	337	CA	GLU	23	82.775	54.560	93.674	0.00	0.00



ATOM	338	HA	GLU	23	82.628	53.512	93.932	0.00	0.00
ATOM	339	CB	GLU	23	84.115	54.703	92.916	0.00	0.00
ATOM	340	HB2	GLU	23	84.024	54.182	91.963	0.00	0.00
ATOM	341	HB3	GLU	23	84.485	55.723	92.811	0.00	0.00
ATOM	342	CG	GLU	23	85.277	53.976	93.685	0.00	0.00
ATOM	343	HG2	GLU	23	85.473	54.476	94.633	0.00	0.00
ATOM	344	HG3	GLU	23	84.932	53.004	94.037	0.00	0.00
ATOM	345	CD	GLU	23	86.532	53.917	92.817	0.00	0.00
ATOM	346	OE1	GLU	23	86.569	53.067	91.908	0.00	0.00
ATOM	347	OE2	GLU	23	87.484	54.680	92.956	0.00	0.00
ATOM	348	C	GLU	23	82.900	55.302	94.978	0.00	0.00
ATOM	349	O	GLU	23	82.927	54.628	96.035	0.00	0.00
ATOM	350	N	ARG	24	82.756	56.667	94.966	0.00	0.00
ATOM	351	H	ARG	24	82.644	57.107	94.063	0.00	0.00
ATOM	352	CA	ARG	24	82.873	57.420	96.251	0.00	0.00
ATOM	353	HA	ARG	24	83.809	57.100	96.709	0.00	0.00
ATOM	354	CB	ARG	24	83.023	58.922	95.930	0.00	0.00
ATOM	355	HB2	ARG	24	82.217	59.354	95.338	0.00	0.00
ATOM	356	HB3	ARG	24	82.905	59.361	96.921	0.00	0.00
ATOM	357	CG	ARG	24	84.421	59.305	95.353	0.00	0.00
ATOM	358	HG2	ARG	24	85.249	59.245	96.060	0.00	0.00
ATOM	359	HG3	ARG	24	84.679	58.571	94.591	0.00	0.00
ATOM	360	CD	ARG	24	84.476	60.762	94.794	0.00	0.00
ATOM	361	HD2	ARG	24	85.386	60.824	94.197	0.00	0.00
ATOM	362	HD3	ARG	24	83.638	60.832	94.100	0.00	0.00
ATOM	363	NE	ARG	24	84.507	61.764	95.804	0.00	0.00

ATOM	364	HE	ARG	24	83.641	62.045	96.243	0.00	0.00
ATOM	365	CZ	ARG	24	85.552	62.470	96.239	0.00	0.00
ATOM	366	NH1	ARG	24	86.729	62.364	95.722	0.00	0.00
ATOM	367	1HH1	ARG	24	87.412	62.987	96.129	0.00	0.00
ATOM	368	2HH1	ARG	24	86.992	61.718	94.991	0.00	0.00
ATOM	369	NH2	ARG	24	85.445	63.396	97.206	0.00	0.00
ATOM	370	1HH2	ARG	24	86.171	64.089	97.321	0.00	0.00
ATOM	371	2HH2	ARG	24	84.596	63.507	97.741	0.00	0.00
ATOM	372	C	ARG	24	81.726	57.179	97.214	0.00	0.00
ATOM	373	O	ARG	24	81.940	57.244	98.397	0.00	0.00
ATOM	374	N	ARG	25	80.552	56.831	96.706	0.00	0.00
ATOM	375	H	ARG	25	80.703	56.540	95.750	0.00	0.00
ATOM	376	CA	ARG	25	79.353	56.448	97.534	0.00	0.00
ATOM	377	HA	ARG	25	79.196	57.033	98.440	0.00	0.00
ATOM	378	CB	ARG	25	78.093	56.842	96.746	0.00	0.00
ATOM	379	HB2	ARG	25	78.101	56.387	95.755	0.00	0.00
ATOM	380	HB3	ARG	25	77.251	56.372	97.254	0.00	0.00
ATOM	381	CG	ARG	25	77.818	58.357	96.792	0.00	0.00
ATOM	382	HG2	ARG	25	77.787	58.706	97.824	0.00	0.00
ATOM	383	HG3	ARG	25	78.651	58.905	96.350	0.00	0.00
ATOM	384	CD	ARG	25	76.522	58.769	96.084	0.00	0.00
ATOM	385	HD2	ARG	25	76.529	58.347	95.079	0.00	0.00
ATOM	386	HD3	ARG	25	75.640	58.378	96.592	0.00	0.00
ATOM	387	NE	ARG	25	76.438	60.223	95.911	0.00	0.00
ATOM	388	HE	ARG	25	76.938	60.765	96.601	0.00	0.00
ATOM	389	CZ	ARG	25	75.675	60.968	95.094	0.00	0.00

ATOM	390	NH1	ARG	25	75.823	62.226	95.125	0.00	0.00
ATOM	391	1HH1	ARG	25	75.030	62.827	94.947	0.00	0.00
ATOM	392	2HH1	ARG	25	76.560	62.526	95.747	0.00	0.00
ATOM	393	NH2	ARG	25	74.824	60.463	94.280	0.00	0.00
ATOM	394	1HH2	ARG	25	74.503	60.977	93.473	0.00	0.00
ATOM	395	2HH2	ARG	25	74.760	59.456	94.340	0.00	0.00
ATOM	396	C	ARG	25	79.561	54.984	98.080	0.00	0.00
ATOM	397	O	ARG	25	79.447	54.800	99.245	0.00	0.00
ATOM	398	N	LEU	26	79.853	54.038	97.237	0.00	0.00
ATOM	399	H	LEU	26	79.827	54.271	96.254	0.00	0.00
ATOM	400	CA	LEU	26	80.314	52.706	97.748	0.00	0.00
ATOM	401	HA	LEU	26	79.482	52.090	98.090	0.00	0.00
ATOM	402	CB	LEU	26	80.934	52.018	96.509	0.00	0.00
ATOM	403	HB2	LEU	26	80.121	51.898	95.793	0.00	0.00
ATOM	404	HB3	LEU	26	81.612	52.719	96.022	0.00	0.00
ATOM	405	CG	LEU	26	81.614	50.609	96.732	0.00	0.00
ATOM	406	HG	LEU	26	82.402	50.807	97.458	0.00	0.00
ATOM	407	CD1	LEU	26	80.688	49.515	97.256	0.00	0.00
ATOM	408	1HD1	LEU	26	80.298	49.805	98.232	0.00	0.00
ATOM	409	2HD1	LEU	26	79.895	49.369	96.522	0.00	0.00
ATOM	410	3HD1	LEU	26	81.349	48.665	97.420	0.00	0.00
ATOM	411	CD2	LEU	26	82.298	50.143	95.445	0.00	0.00
ATOM	412	1HD2	LEU	26	83.023	50.874	95.087	0.00	0.00
ATOM	413	2HD2	LEU	26	82.915	49.272	95.669	0.00	0.00
ATOM	414	3HD2	LEU	26	81.483	50.017	94.734	0.00	0.00
ATOM	415	C	LEU	26	81.414	52.700	98.843	0.00	0.00

ATOM	416	O	LEU	26	81.240	52.006	99.869	0.00	0.00
ATOM	417	N	ALA	27	82.470	53.490	98.726	0.00	0.00
ATOM	418	H	ALA	27	82.598	53.952	97.838	0.00	0.00
ATOM	419	CA	ALA	27	83.656	53.496	99.656	0.00	0.00
ATOM	420	HA	ALA	27	83.853	52.522	100.103	0.00	0.00
ATOM	421	CB	ALA	27	84.842	53.929	98.845	0.00	0.00
ATOM	422	HB1	ALA	27	85.738	53.557	99.341	0.00	0.00
ATOM	423	HB2	ALA	27	84.882	53.436	97.874	0.00	0.00
ATOM	424	HB3	ALA	27	84.799	54.974	98.538	0.00	0.00
ATOM	425	C	ALA	27	83.365	54.357	100.968	0.00	0.00
ATOM	426	O	ALA	27	84.166	54.477	101.886	0.00	0.00
ATOM	427	N	ARG	28	82.130	54.915	101.043	0.00	0.00
ATOM	428	H	ARG	28	81.575	54.813	100.205	0.00	0.00
ATOM	429	CA	ARG	28	81.531	55.499	102.214	0.00	0.00
ATOM	430	HA	ARG	28	82.225	55.433	103.053	0.00	0.00
ATOM	431	CB	ARG	28	81.247	56.931	101.870	0.00	0.00
ATOM	432	HB2	ARG	28	81.861	57.338	101.067	0.00	0.00
ATOM	433	HB3	ARG	28	80.270	56.933	101.387	0.00	0.00
ATOM	434	CG	ARG	28	81.255	57.915	103.086	0.00	0.00
ATOM	435	HG2	ARG	28	82.285	58.271	103.086	0.00	0.00
ATOM	436	HG3	ARG	28	80.899	57.558	104.052	0.00	0.00
ATOM	437	CD	ARG	28	80.468	59.234	102.849	0.00	0.00
ATOM	438	HD2	ARG	28	79.398	59.036	102.902	0.00	0.00
ATOM	439	HD3	ARG	28	80.803	59.870	103.669	0.00	0.00
ATOM	440	NE	ARG	28	80.876	59.849	101.600	0.00	0.00
ATOM	441	HE	ARG	28	81.842	60.116	101.475	0.00	0.00

ATOM 442 CZ ARG 28 80.008 60.021 100.588 0.00 0.00  
ATOM 443 NH1 ARG 28 78.723 60.011 100.648 0.00 0.00  
ATOM 444 1HH1 ARG 28 78.260 60.264 99.787 0.00 0.00  
ATOM 445 2HH1 ARG 28 78.332 60.188 101.563 0.00 0.00  
ATOM 446 NH2 ARG 28 80.526 60.289 99.391 0.00 0.00  
ATOM 447 1HH2 ARG 28 79.920 60.569 98.633 0.00 0.00  
ATOM 448 2HH2 ARG 28 81.528 60.339 99.278 0.00 0.00  
ATOM 449 C ARG 28 80.259 54.765 102.620 0.00 0.00  
ATOM 450 O ARG 28 79.458 55.281 103.390 0.00 0.00  
ATOM 451 N GLY 29 80.066 53.515 102.180 0.00 0.00  
ATOM 452 H GLY 29 80.703 53.171 101.476 0.00 0.00  
ATOM 453 CA GLY 29 79.011 52.646 102.612 0.00 0.00  
ATOM 454 HA2 GLY 29 79.159 51.673 102.143 0.00 0.00  
ATOM 455 HA3 GLY 29 79.065 52.583 103.699 0.00 0.00  
ATOM 456 C GLY 29 77.626 53.177 102.366 0.00 0.00  
ATOM 457 O GLY 29 76.712 52.878 103.128 0.00 0.00  
ATOM 458 N LEU 30 77.355 53.829 101.229 0.00 0.00  
ATOM 459 H LEU 30 78.116 54.263 100.726 0.00 0.00  
ATOM 460 CA LEU 30 76.040 53.878 100.639 0.00 0.00  
ATOM 461 HA LEU 30 75.300 54.020 101.426 0.00 0.00  
ATOM 462 CB LEU 30 75.901 55.106 99.750 0.00 0.00  
ATOM 463 HB2 LEU 30 76.628 55.071 98.939 0.00 0.00  
ATOM 464 HB3 LEU 30 75.026 55.021 99.106 0.00 0.00  
ATOM 465 CG LEU 30 75.892 56.412 100.507 0.00 0.00  
ATOM 466 HG LEU 30 75.768 57.209 99.773 0.00 0.00  
ATOM 467 CD1 LEU 30 74.731 56.557 101.514 0.00 0.00

ATOM	468	1HD1	LEU	30	74.707	55.749	102.245	0.00	0.00
ATOM	469	2HD1	LEU	30	74.823	57.470	102.103	0.00	0.00
ATOM	470	3HD1	LEU	30	73.791	56.566	100.961	0.00	0.00
ATOM	471	CD2	LEU	30	77.202	56.768	101.289	0.00	0.00
ATOM	472	1HD2	LEU	30	78.104	56.461	100.760	0.00	0.00
ATOM	473	2HD2	LEU	30	77.326	57.849	101.366	0.00	0.00
ATOM	474	3HD2	LEU	30	77.273	56.257	102.250	0.00	0.00
ATOM	475	C	LEU	30	75.848	52.562	99.898	0.00	0.00
ATOM	476	O	LEU	30	76.719	52.051	99.152	0.00	0.00
ATOM	477	N	LYS	31	74.587	52.078	99.941	0.00	0.00
ATOM	478	H	LYS	31	74.084	52.383	100.762	0.00	0.00
ATOM	479	CA	LYS	31	74.043	51.090	98.975	0.00	0.00
ATOM	480	HA	LYS	31	74.806	50.327	98.822	0.00	0.00
ATOM	481	CB	LYS	31	72.807	50.412	99.661	0.00	0.00
ATOM	482	HB2	LYS	31	72.045	51.162	99.872	0.00	0.00
ATOM	483	HB3	LYS	31	72.384	49.672	98.981	0.00	0.00
ATOM	484	CG	LYS	31	73.118	49.712	100.971	0.00	0.00
ATOM	485	HG2	LYS	31	73.579	50.347	101.728	0.00	0.00
ATOM	486	HG3	LYS	31	72.149	49.432	101.382	0.00	0.00
ATOM	487	CD	LYS	31	73.948	48.438	100.885	0.00	0.00
ATOM	488	HD2	LYS	31	73.398	47.791	100.202	0.00	0.00
ATOM	489	HD3	LYS	31	74.880	48.710	100.388	0.00	0.00
ATOM	490	CE	LYS	31	74.118	47.950	102.291	0.00	0.00
ATOM	491	HE2	LYS	31	74.782	47.086	102.291	0.00	0.00
ATOM	492	HE3	LYS	31	74.418	48.790	102.916	0.00	0.00
ATOM	493	NZ	LYS	31	72.857	47.343	102.716	0.00	0.00

ATOM	494	HZ1	LYS	31	72.916	46.957	103.648	0.00	0.00
ATOM	495	HZ2	LYS	31	72.174	48.087	102.687	0.00	0.00
ATOM	496	HZ3	LYS	31	72.612	46.616	102.059	0.00	0.00
ATOM	497	C	LYS	31	73.719	51.868	97.622	0.00	0.00
ATOM	498	O	LYS	31	73.141	52.943	97.719	0.00	0.00
ATOM	499	N	LEU	32	74.197	51.418	96.455	0.00	0.00
ATOM	500	H	LEU	32	74.592	50.489	96.449	0.00	0.00
ATOM	501	CA	LEU	32	74.169	52.153	95.276	0.00	0.00
ATOM	502	HA	LEU	32	74.496	53.178	95.451	0.00	0.00
ATOM	503	CB	LEU	32	75.179	51.614	94.314	0.00	0.00
ATOM	504	HB2	LEU	32	74.873	50.569	94.364	0.00	0.00
ATOM	505	HB3	LEU	32	75.047	52.092	93.343	0.00	0.00
ATOM	506	CG	LEU	32	76.643	51.722	94.647	0.00	0.00
ATOM	507	HG	LEU	32	76.986	50.899	95.273	0.00	0.00
ATOM	508	CD1	LEU	32	77.512	51.566	93.370	0.00	0.00
ATOM	509	1HD1	LEU	32	77.032	52.045	92.517	0.00	0.00
ATOM	510	2HD1	LEU	32	78.546	51.799	93.626	0.00	0.00
ATOM	511	3HD1	LEU	32	77.461	50.503	93.134	0.00	0.00
ATOM	512	CD2	LEU	32	77.015	53.037	95.358	0.00	0.00
ATOM	513	1HD2	LEU	32	76.819	53.903	94.725	0.00	0.00
ATOM	514	2HD2	LEU	32	76.497	52.955	96.313	0.00	0.00
ATOM	515	3HD2	LEU	32	78.090	53.000	95.536	0.00	0.00
ATOM	516	C	LEU	32	72.761	52.213	94.699	0.00	0.00
ATOM	517	O	LEU	32	72.052	51.169	94.833	0.00	0.00
ATOM	518	N	ASN	33	72.198	53.302	94.140	0.00	0.00
ATOM	519	H	ASN	33	72.915	54.007	94.044	0.00	0.00

ATOM	520	CA	ASN	33	70.923	53.461	93.434	0.00	0.00
ATOM	521	HA	ASN	33	70.110	52.895	93.889	0.00	0.00
ATOM	522	CB	ASN	33	70.550	55.015	93.622	0.00	0.00
ATOM	523	HB2	ASN	33	69.470	55.158	93.659	0.00	0.00
ATOM	524	HB3	ASN	33	71.018	55.370	94.540	0.00	0.00
ATOM	525	CG	ASN	33	70.993	55.991	92.571	0.00	0.00
ATOM	526	OD1	ASN	33	71.802	55.741	91.671	0.00	0.00
ATOM	527	ND2	ASN	33	70.418	57.178	92.574	0.00	0.00
ATOM	528	1HD2	ASN	33	70.695	57.917	91.943	0.00	0.00
ATOM	529	2HD2	ASN	33	69.604	57.442	93.110	0.00	0.00
ATOM	530	C	ASN	33	71.052	52.995	92.021	0.00	0.00
ATOM	531	O	ASN	33	72.198	52.657	91.590	0.00	0.00
ATOM	532	N	TYR	34	69.949	52.960	91.281	0.00	0.00
ATOM	533	H	TYR	34	69.065	53.064	91.760	0.00	0.00
ATOM	534	CA	TYR	34	69.909	52.483	89.918	0.00	0.00
ATOM	535	HA	TYR	34	70.185	51.429	89.910	0.00	0.00
ATOM	536	CB	TYR	34	68.465	52.435	89.442	0.00	0.00
ATOM	537	HB2	TYR	34	67.887	51.729	90.038	0.00	0.00
ATOM	538	HB3	TYR	34	67.982	53.383	89.682	0.00	0.00
ATOM	539	CG	TYR	34	68.276	52.029	87.981	0.00	0.00
ATOM	540	CD1	TYR	34	68.748	50.753	87.591	0.00	0.00
ATOM	541	HD1	TYR	34	69.412	50.237	88.268	0.00	0.00
ATOM	542	CE1	TYR	34	68.548	50.383	86.208	0.00	0.00
ATOM	543	HE1	TYR	34	69.011	49.501	85.791	0.00	0.00
ATOM	544	CZ	TYR	34	67.740	51.156	85.391	0.00	0.00
ATOM	545	OH	TYR	34	67.479	50.745	84.101	0.00	0.00



ATOM	546	HH	TYR	34	67.878	49.900	83.884	0.00	0.00
ATOM	547	CE2	TYR	34	67.206	52.409	85.836	0.00	0.00
ATOM	548	HE2	TYR	34	66.648	53.043	85.163	0.00	0.00
ATOM	549	CD2	TYR	34	67.513	52.820	87.154	0.00	0.00
ATOM	550	HD2	TYR	34	67.084	53.752	87.491	0.00	0.00
ATOM	551	C	TYR	34	70.967	52.941	88.919	0.00	0.00
ATOM	552	O	TYR	34	71.698	52.111	88.387	0.00	0.00
ATOM	553	N	PRO	35	71.001	54.259	88.716	0.00	0.00
ATOM	554	CD	PRO	35	70.057	55.250	89.207	0.00	0.00
ATOM	555	HD2	PRO	35	69.071	55.206	88.744	0.00	0.00
ATOM	556	HD3	PRO	35	69.908	55.144	90.281	0.00	0.00
ATOM	557	CG	PRO	35	70.794	56.579	88.857	0.00	0.00
ATOM	558	HG2	PRO	35	70.036	57.349	88.708	0.00	0.00
ATOM	559	HG3	PRO	35	71.553	56.934	89.554	0.00	0.00
ATOM	560	CB	PRO	35	71.528	56.347	87.573	0.00	0.00
ATOM	561	HB2	PRO	35	70.868	56.308	86.707	0.00	0.00
ATOM	562	HB3	PRO	35	72.323	57.081	87.436	0.00	0.00
ATOM	563	CA	PRO	35	71.990	54.857	87.790	0.00	0.00
ATOM	564	HA	PRO	35	71.794	54.345	86.848	0.00	0.00
ATOM	565	C	PRO	35	73.459	54.729	88.227	0.00	0.00
ATOM	566	O	PRO	35	74.325	54.372	87.411	0.00	0.00
ATOM	567	N	GLU	36	73.828	55.064	89.472	0.00	0.00
ATOM	568	H	GLU	36	73.110	55.456	90.065	0.00	0.00
ATOM	569	CA	GLU	36	75.114	54.800	90.107	0.00	0.00
ATOM	570	HA	GLU	36	75.866	55.499	89.740	0.00	0.00
ATOM	571	CB	GLU	36	75.023	55.024	91.692	0.00	0.00

ATOM	572	HB2	GLU	36	74.194	54.427	92.073	0.00	0.00
ATOM	573	HB3	GLU	36	75.890	54.619	92.214	0.00	0.00
ATOM	574	CG	GLU	36	74.915	56.458	92.214	0.00	0.00
ATOM	575	HG2	GLU	36	75.864	56.951	92.005	0.00	0.00
ATOM	576	HG3	GLU	36	74.247	57.011	91.553	0.00	0.00
ATOM	577	CD	GLU	36	74.403	56.511	93.759	0.00	0.00
ATOM	578	OE1	GLU	36	73.981	55.531	94.411	0.00	0.00
ATOM	579	OE2	GLU	36	74.290	57.669	94.161	0.00	0.00
ATOM	580	C	GLU	36	75.636	53.417	89.941	0.00	0.00
ATOM	581	O	GLU	36	76.751	53.140	89.531	0.00	0.00
ATOM	582	N	SER	37	74.826	52.345	90.225	0.00	0.00
ATOM	583	H	SER	37	73.929	52.665	90.560	0.00	0.00
ATOM	584	CA	SER	37	75.121	50.890	90.156	0.00	0.00
ATOM	585	HA	SER	37	76.000	50.642	90.751	0.00	0.00
ATOM	586	CB	SER	37	73.856	50.046	90.583	0.00	0.00
ATOM	587	HB2	SER	37	73.026	50.218	89.898	0.00	0.00
ATOM	588	HB3	SER	37	74.050	48.975	90.520	0.00	0.00
ATOM	589	OG	SER	37	73.477	50.357	91.932	0.00	0.00
ATOM	590	HG	SER	37	73.095	51.237	91.968	0.00	0.00
ATOM	591	C	SER	37	75.524	50.414	88.744	0.00	0.00
ATOM	592	O	SER	37	76.516	49.653	88.594	0.00	0.00
ATOM	593	N	VAL	38	74.838	50.874	87.680	0.00	0.00
ATOM	594	H	VAL	38	74.017	51.402	87.940	0.00	0.00
ATOM	595	CA	VAL	38	75.125	50.477	86.319	0.00	0.00
ATOM	596	HA	VAL	38	75.514	49.459	86.284	0.00	0.00
ATOM	597	CB	VAL	38	73.914	50.535	85.420	0.00	0.00

ATOM	598	HB VAL	38	74.350	50.307	84.447	0.00	0.00
ATOM	599	CG1 VAL	38	72.869	49.529	85.871	0.00	0.00
ATOM	600	1HG1 VAL	38	73.252	48.552	86.167	0.00	0.00
ATOM	601	2HG1 VAL	38	72.504	49.943	86.811	0.00	0.00
ATOM	602	3HG1 VAL	38	72.055	49.465	85.149	0.00	0.00
ATOM	603	CG2 VAL	38	73.231	51.910	85.274	0.00	0.00
ATOM	604	1HG2 VAL	38	73.996	52.526	84.801	0.00	0.00
ATOM	605	2HG2 VAL	38	72.429	51.848	84.539	0.00	0.00
ATOM	606	3HG2 VAL	38	72.957	52.397	86.209	0.00	0.00
ATOM	607	C VAL	38	76.261	51.294	85.736	0.00	0.00
ATOM	608	O VAL	38	77.032	50.811	84.893	0.00	0.00
ATOM	609	N ALA	39	76.344	52.540	86.205	0.00	0.00
ATOM	610	H ALA	39	75.612	52.918	86.790	0.00	0.00
ATOM	611	CA ALA	39	77.486	53.429	85.844	0.00	0.00
ATOM	612	HA ALA	39	77.451	53.640	84.775	0.00	0.00
ATOM	613	CB ALA	39	77.142	54.807	86.443	0.00	0.00
ATOM	614	HB1 ALA	39	76.273	55.121	85.865	0.00	0.00
ATOM	615	HB2 ALA	39	77.008	54.645	87.512	0.00	0.00
ATOM	616	HB3 ALA	39	77.969	55.475	86.199	0.00	0.00
ATOM	617	C ALA	39	78.825	52.779	86.263	0.00	0.00
ATOM	618	O ALA	39	79.802	52.773	85.436	0.00	0.00
ATOM	619	N LEU	40	78.897	52.169	87.475	0.00	0.00
ATOM	620	H LEU	40	78.166	52.375	88.142	0.00	0.00
ATOM	621	CA LEU	40	80.127	51.609	87.959	0.00	0.00
ATOM	622	HA LEU	40	80.918	52.298	87.663	0.00	0.00
ATOM	623	CB LEU	40	80.041	51.543	89.487	0.00	0.00

ATOM	624	HB2	LEU	40	79.765	52.557	89.777	0.00	0.00
ATOM	625	HB3	LEU	40	79.253	50.866	89.814	0.00	0.00
ATOM	626	CG	LEU	40	81.264	51.176	90.205	0.00	0.00
ATOM	627	HG	LEU	40	81.551	50.155	89.954	0.00	0.00
ATOM	628	CD1	LEU	40	82.508	52.094	89.882	0.00	0.00
ATOM	629	1HD1	LEU	40	83.282	51.932	90.633	0.00	0.00
ATOM	630	2HD1	LEU	40	82.741	51.905	88.834	0.00	0.00
ATOM	631	3HD1	LEU	40	82.278	53.156	89.794	0.00	0.00
ATOM	632	CD2	LEU	40	80.960	51.297	91.757	0.00	0.00
ATOM	633	1HD2	LEU	40	81.875	51.093	92.314	0.00	0.00
ATOM	634	2HD2	LEU	40	80.736	52.343	91.967	0.00	0.00
ATOM	635	3HD2	LEU	40	80.139	50.652	92.069	0.00	0.00
ATOM	636	C	LEU	40	80.536	50.221	87.308	0.00	0.00
ATOM	637	O	LEU	40	81.743	50.005	87.137	0.00	0.00
ATOM	638	N	ILE	41	79.558	49.344	87.032	0.00	0.00
ATOM	639	H	ILE	41	78.598	49.524	87.287	0.00	0.00
ATOM	640	CA	ILE	41	79.970	48.147	86.278	0.00	0.00
ATOM	641	HA	ILE	41	80.940	47.746	86.574	0.00	0.00
ATOM	642	CB	ILE	41	78.916	47.032	86.496	0.00	0.00
ATOM	643	HB	ILE	41	79.120	46.155	85.883	0.00	0.00
ATOM	644	CG2	ILE	41	78.970	46.596	87.972	0.00	0.00
ATOM	645	1HG2	ILE	41	78.542	45.594	87.973	0.00	0.00
ATOM	646	2HG2	ILE	41	79.998	46.521	88.325	0.00	0.00
ATOM	647	3HG2	ILE	41	78.375	47.231	88.629	0.00	0.00
ATOM	648	CG1	ILE	41	77.458	47.369	86.132	0.00	0.00
ATOM	649	2HG1	ILE	41	77.117	48.159	86.800	0.00	0.00

ATOM	650	3HG1	ILE	41	77.380	47.853	85.158	0.00	0.00
ATOM	651	CD1	ILE	41	76.310	46.399	86.256	0.00	0.00
ATOM	652	1HD1	ILE	41	76.285	46.136	87.313	0.00	0.00
ATOM	653	2HD1	ILE	41	75.357	46.877	86.029	0.00	0.00
ATOM	654	3HD1	ILE	41	76.422	45.583	85.542	0.00	0.00
ATOM	655	C	ILE	41	80.157	48.335	84.758	0.00	0.00
ATOM	656	O	ILE	41	81.024	47.706	84.106	0.00	0.00
ATOM	657	N	SER	42	79.517	49.334	84.123	0.00	0.00
ATOM	658	H	SER	42	78.770	49.839	84.578	0.00	0.00
ATOM	659	CA	SER	42	79.649	49.648	82.699	0.00	0.00
ATOM	660	HA	SER	42	79.604	48.749	82.084	0.00	0.00
ATOM	661	CB	SER	42	78.624	50.588	82.190	0.00	0.00
ATOM	662	HB2	SER	42	78.658	51.550	82.701	0.00	0.00
ATOM	663	HB3	SER	42	78.853	50.690	81.129	0.00	0.00
ATOM	664	OG	SER	42	77.324	50.030	82.374	0.00	0.00
ATOM	665	HG	SER	42	76.874	50.499	83.079	0.00	0.00
ATOM	666	C	SER	42	80.983	50.352	82.413	0.00	0.00
ATOM	667	O	SER	42	81.479	50.097	81.316	0.00	0.00
ATOM	668	N	ALA	43	81.533	51.155	83.348	0.00	0.00
ATOM	669	H	ALA	43	81.023	51.458	84.166	0.00	0.00
ATOM	670	CA	ALA	43	82.928	51.558	83.326	0.00	0.00
ATOM	671	HA	ALA	43	83.058	51.999	82.338	0.00	0.00
ATOM	672	CB	ALA	43	83.155	52.656	84.425	0.00	0.00
ATOM	673	HB1	ALA	43	82.683	53.571	84.068	0.00	0.00
ATOM	674	HB2	ALA	43	82.755	52.292	85.371	0.00	0.00
ATOM	675	HB3	ALA	43	84.211	52.925	84.465	0.00	0.00

ATOM	676	C	ALA	43	83.964	50.401	83.476	0.00	0.00
ATOM	677	O	ALA	43	84.862	50.306	82.727	0.00	0.00
ATOM	678	N	PHE	44	83.773	49.506	84.460	0.00	0.00
ATOM	679	H	PHE	44	82.960	49.635	85.046	0.00	0.00
ATOM	680	CA	PHE	44	84.572	48.338	84.702	0.00	0.00
ATOM	681	HA	PHE	44	85.535	48.635	85.117	0.00	0.00
ATOM	682	CB	PHE	44	83.919	47.619	85.940	0.00	0.00
ATOM	683	HB2	PHE	44	83.618	48.289	86.745	0.00	0.00
ATOM	684	HB3	PHE	44	82.968	47.202	85.607	0.00	0.00
ATOM	685	CG	PHE	44	84.918	46.564	86.458	0.00	0.00
ATOM	686	CD1	PHE	44	85.773	46.945	87.520	0.00	0.00
ATOM	687	HD1	PHE	44	85.677	47.859	88.088	0.00	0.00
ATOM	688	CE1	PHE	44	86.625	46.012	88.095	0.00	0.00
ATOM	689	HE1	PHE	44	87.271	46.225	88.934	0.00	0.00
ATOM	690	CZ	PHE	44	86.850	44.786	87.422	0.00	0.00
ATOM	691	HZ	PHE	44	87.521	44.005	87.748	0.00	0.00
ATOM	692	CE2	PHE	44	85.997	44.388	86.418	0.00	0.00
ATOM	693	HE2	PHE	44	86.145	43.426	85.950	0.00	0.00
ATOM	694	CD2	PHE	44	85.042	45.278	85.843	0.00	0.00
ATOM	695	HD2	PHE	44	84.432	44.930	85.023	0.00	0.00
ATOM	696	C	PHE	44	84.904	47.411	83.492	0.00	0.00
ATOM	697	O	PHE	44	86.067	47.097	83.337	0.00	0.00
ATOM	698	N	ILE	45	83.898	47.301	82.636	0.00	0.00
ATOM	699	H	ILE	45	83.074	47.812	82.917	0.00	0.00
ATOM	700	CA	ILE	45	84.091	46.445	81.443	0.00	0.00
ATOM	701	HA	ILE	45	84.733	45.586	81.641	0.00	0.00

ATOM	702	CB	ILE	45	82.810	45.754	80.989	0.00	0.00
ATOM	703	HB	ILE	45	83.027	45.307	80.019	0.00	0.00
ATOM	704	CG2	ILE	45	82.335	44.791	82.094	0.00	0.00
ATOM	705	1HG2	ILE	45	83.069	44.105	82.518	0.00	0.00
ATOM	706	2HG2	ILE	45	81.891	45.206	82.999	0.00	0.00
ATOM	707	3HG2	ILE	45	81.674	44.048	81.650	0.00	0.00
ATOM	708	CG1	ILE	45	81.666	46.773	80.702	0.00	0.00
ATOM	709	2HG1	ILE	45	81.432	47.417	81.550	0.00	0.00
ATOM	710	3HG1	ILE	45	82.103	47.401	79.926	0.00	0.00
ATOM	711	CD1	ILE	45	80.348	46.118	80.307	0.00	0.00
ATOM	712	1HD1	ILE	45	79.588	46.829	79.985	0.00	0.00
ATOM	713	2HD1	ILE	45	80.523	45.396	79.509	0.00	0.00
ATOM	714	3HD1	ILE	45	79.919	45.643	81.189	0.00	0.00
ATOM	715	C	ILE	45	84.701	47.323	80.269	0.00	0.00
ATOM	716	O	ILE	45	85.386	46.749	79.387	0.00	0.00
ATOM	717	N	MET	46	84.476	48.669	80.196	0.00	0.00
ATOM	718	H	MET	46	83.931	49.060	80.951	0.00	0.00
ATOM	719	CA	MET	46	85.129	49.565	79.235	0.00	0.00
ATOM	720	HA	MET	46	85.045	49.098	78.253	0.00	0.00
ATOM	721	CB	MET	46	84.317	50.911	79.377	0.00	0.00
ATOM	722	HB2	MET	46	83.252	50.702	79.281	0.00	0.00
ATOM	723	HB3	MET	46	84.418	51.355	80.368	0.00	0.00
ATOM	724	CG	MET	46	84.626	51.991	78.354	0.00	0.00
ATOM	725	HG2	MET	46	85.667	52.313	78.375	0.00	0.00
ATOM	726	HG3	MET	46	84.499	51.486	77.396	0.00	0.00
ATOM	727	SD	MET	46	83.768	53.593	78.358	0.00	0.00

ATOM	728	CE	MET	46	82.266	53.410	77.382	0.00	0.00
ATOM	729	HE1	MET	46	81.670	54.297	77.598	0.00	0.00
ATOM	730	HE2	MET	46	82.382	53.412	76.298	0.00	0.00
ATOM	731	HE3	MET	46	81.729	52.539	77.756	0.00	0.00
ATOM	732	C	MET	46	86.660	49.719	79.653	0.00	0.00
ATOM	733	O	MET	46	87.501	49.791	78.761	0.00	0.00
ATOM	734	N	GLU	47	86.962	49.826	80.954	0.00	0.00
ATOM	735	H	GLU	47	86.210	49.962	81.615	0.00	0.00
ATOM	736	CA	GLU	47	88.372	49.885	81.484	0.00	0.00
ATOM	737	HA	GLU	47	88.881	50.669	80.924	0.00	0.00
ATOM	738	CB	GLU	47	88.493	50.293	82.929	0.00	0.00
ATOM	739	HB2	GLU	47	88.048	49.552	83.593	0.00	0.00
ATOM	740	HB3	GLU	47	89.526	50.377	83.267	0.00	0.00
ATOM	741	CG	GLU	47	87.893	51.633	83.369	0.00	0.00
ATOM	742	HG2	GLU	47	86.822	51.671	83.173	0.00	0.00
ATOM	743	HG3	GLU	47	87.975	51.700	84.453	0.00	0.00
ATOM	744	CD	GLU	47	88.562	52.894	82.714	0.00	0.00
ATOM	745	OE1	GLU	47	89.778	53.138	83.026	0.00	0.00
ATOM	746	OE2	GLU	47	87.974	53.715	82.009	0.00	0.00
ATOM	747	C	GLU	47	89.219	48.711	81.079	0.00	0.00
ATOM	748	O	GLU	47	90.416	48.854	81.011	0.00	0.00
ATOM	749	N	GLY	48	88.625	47.536	80.853	0.00	0.00
ATOM	750	H	GLY	48	87.705	47.467	81.263	0.00	0.00
ATOM	751	CA	GLY	48	89.360	46.406	80.333	0.00	0.00
ATOM	752	HA2	GLY	48	90.362	46.290	80.746	0.00	0.00
ATOM	753	HA3	GLY	48	88.764	45.523	80.568	0.00	0.00



ATOM	754	C	GLY	48	89.528	46.393	78.747	0.00	0.00
ATOM	755	O	GLY	48	90.448	45.697	78.297	0.00	0.00
ATOM	756	N	ALA	49	88.762	47.156	77.968	0.00	0.00
ATOM	757	H	ALA	49	88.080	47.730	78.443	0.00	0.00
ATOM	758	CA	ALA	49	89.004	47.339	76.579	0.00	0.00
ATOM	759	HA	ALA	49	89.358	46.391	76.174	0.00	0.00
ATOM	760	CB	ALA	49	87.756	47.856	75.837	0.00	0.00
ATOM	761	HB1	ALA	49	87.346	48.739	76.328	0.00	0.00
ATOM	762	HB2	ALA	49	87.973	47.835	74.770	0.00	0.00
ATOM	763	HB3	ALA	49	86.897	47.200	75.977	0.00	0.00
ATOM	764	C	ALA	49	90.085	48.327	76.327	0.00	0.00
ATOM	765	O	ALA	49	90.887	48.117	75.444	0.00	0.00
ATOM	766	N	ARG	50	90.273	49.333	77.174	0.00	0.00
ATOM	767	H	ARG	50	89.511	49.522	77.809	0.00	0.00
ATOM	768	CA	ARG	50	91.537	50.199	77.226	0.00	0.00
ATOM	769	HA	ARG	50	91.748	50.418	76.179	0.00	0.00
ATOM	770	CB	ARG	50	91.195	51.373	78.143	0.00	0.00
ATOM	771	HB2	ARG	50	90.468	52.099	77.778	0.00	0.00
ATOM	772	HB3	ARG	50	90.692	51.026	79.045	0.00	0.00
ATOM	773	CG	ARG	50	92.314	52.270	78.540	0.00	0.00
ATOM	774	HG2	ARG	50	91.977	53.093	79.169	0.00	0.00
ATOM	775	HG3	ARG	50	93.119	51.743	79.054	0.00	0.00
ATOM	776	CD	ARG	50	92.904	52.975	77.326	0.00	0.00
ATOM	777	HD2	ARG	50	93.096	52.364	76.443	0.00	0.00
ATOM	778	HD3	ARG	50	92.229	53.758	76.979	0.00	0.00
ATOM	779	NE	ARG	50	94.229	53.539	77.714	0.00	0.00

ATOM	780	HE	ARG	50	94.259	54.511	77.986	0.00	0.00
ATOM	781	CZ	ARG	50	95.331	52.925	77.870	0.00	0.00
ATOM	782	NH1	ARG	50	95.651	51.727	77.576	0.00	0.00
ATOM	783	1HH1	ARG	50	96.487	51.207	77.803	0.00	0.00
ATOM	784	2HH1	ARG	50	94.908	51.141	77.224	0.00	0.00
ATOM	785	NH2	ARG	50	96.214	53.640	78.444	0.00	0.00
ATOM	786	1HH2	ARG	50	97.164	53.306	78.520	0.00	0.00
ATOM	787	2HH2	ARG	50	95.966	54.618	78.471	0.00	0.00
ATOM	788	C	ARG	50	92.762	49.340	77.729	0.00	0.00
ATOM	789	O	ARG	50	93.892	49.632	77.311	0.00	0.00
ATOM	790	N	ASP	51	92.563	48.370	78.598	0.00	0.00
ATOM	791	H	ASP	51	91.635	48.362	78.995	0.00	0.00
ATOM	792	CA	ASP	51	93.586	47.348	79.074	0.00	0.00
ATOM	793	HA	ASP	51	94.511	47.921	79.124	0.00	0.00
ATOM	794	CB	ASP	51	93.337	46.951	80.552	0.00	0.00
ATOM	795	HB2	ASP	51	93.145	47.918	81.019	0.00	0.00
ATOM	796	HB3	ASP	51	92.450	46.318	80.557	0.00	0.00
ATOM	797	CG	ASP	51	94.508	46.248	81.218	0.00	0.00
ATOM	798	OD1	ASP	51	94.263	45.385	82.140	0.00	0.00
ATOM	799	OD2	ASP	51	95.697	46.639	80.983	0.00	0.00
ATOM	800	C	ASP	51	93.822	46.168	78.164	0.00	0.00
ATOM	801	O	ASP	51	94.381	45.154	78.484	0.00	0.00
ATOM	802	N	GLY	52	93.359	46.255	76.912	0.00	0.00
ATOM	803	H	GLY	52	92.773	47.029	76.630	0.00	0.00
ATOM	804	CA	GLY	52	93.657	45.201	75.923	0.00	0.00
ATOM	805	HA2	GLY	52	93.467	45.592	74.924	0.00	0.00

ATOM	806	HA3	GLY	52	94.709	44.916	75.915	0.00	0.00
ATOM	807	C	GLY	52	92.960	43.863	75.990	0.00	0.00
ATOM	808	O	GLY	52	93.486	42.895	75.401	0.00	0.00
ATOM	809	N	LYS	53	91.780	43.728	76.645	0.00	0.00
ATOM	810	H	LYS	53	91.415	44.573	77.061	0.00	0.00
ATOM	811	CA	LYS	53	91.169	42.448	76.814	0.00	0.00
ATOM	812	HA	LYS	53	91.858	41.605	76.763	0.00	0.00
ATOM	813	CB	LYS	53	90.365	42.330	78.111	0.00	0.00
ATOM	814	HB2	LYS	53	89.797	43.230	78.350	0.00	0.00
ATOM	815	HB3	LYS	53	89.706	41.483	77.921	0.00	0.00
ATOM	816	CG	LYS	53	91.208	41.957	79.372	0.00	0.00
ATOM	817	HG2	LYS	53	91.926	41.197	79.061	0.00	0.00
ATOM	818	HG3	LYS	53	90.519	41.512	80.090	0.00	0.00
ATOM	819	CD	LYS	53	92.095	43.066	79.896	0.00	0.00
ATOM	820	HD2	LYS	53	92.838	43.419	79.181	0.00	0.00
ATOM	821	HD3	LYS	53	91.506	43.948	80.146	0.00	0.00
ATOM	822	CE	LYS	53	92.995	42.674	81.122	0.00	0.00
ATOM	823	HE2	LYS	53	93.393	43.444	81.783	0.00	0.00
ATOM	824	HE3	LYS	53	92.369	42.105	81.809	0.00	0.00
ATOM	825	NZ	LYS	53	94.119	41.803	80.722	0.00	0.00
ATOM	826	HZ1	LYS	53	93.744	40.964	80.304	0.00	0.00
ATOM	827	HZ2	LYS	53	94.755	42.121	80.004	0.00	0.00
ATOM	828	HZ3	LYS	53	94.639	41.484	81.527	0.00	0.00
ATOM	829	C	LYS	53	90.190	42.307	75.658	0.00	0.00
ATOM	830	O	LYS	53	89.823	43.272	75.013	0.00	0.00
ATOM	831	N	SER	54	89.897	41.067	75.305	0.00	0.00

ATOM	832	H	SER	54	90.206	40.317	75.907	0.00	0.00
ATOM	833	CA	SER	54	89.047	40.786	74.140	0.00	0.00
ATOM	834	HA	SER	54	88.985	41.635	73.460	0.00	0.00
ATOM	835	CB	SER	54	89.431	39.586	73.315	0.00	0.00
ATOM	836	HB2	SER	54	89.542	38.739	73.991	0.00	0.00
ATOM	837	HB3	SER	54	88.653	39.339	72.593	0.00	0.00
ATOM	838	OG	SER	54	90.660	39.779	72.674	0.00	0.00
ATOM	839	HG	SER	54	91.372	39.218	72.988	0.00	0.00
ATOM	840	C	SER	54	87.638	40.631	74.593	0.00	0.00
ATOM	841	O	SER	54	87.345	40.327	75.743	0.00	0.00
ATOM	842	N	VAL	55	86.639	40.791	73.703	0.00	0.00
ATOM	843	H	VAL	55	86.836	41.117	72.768	0.00	0.00
ATOM	844	CA	VAL	55	85.230	41.072	74.033	0.00	0.00
ATOM	845	HA	VAL	55	85.241	41.841	74.806	0.00	0.00
ATOM	846	CB	VAL	55	84.339	41.581	72.870	0.00	0.00
ATOM	847	HB	VAL	55	83.356	41.841	73.262	0.00	0.00
ATOM	848	CG1	VAL	55	84.824	42.921	72.288	0.00	0.00
ATOM	849	1HG1	VAL	55	84.902	43.685	73.061	0.00	0.00
ATOM	850	2HG1	VAL	55	85.760	42.873	71.732	0.00	0.00
ATOM	851	3HG1	VAL	55	84.196	43.212	71.445	0.00	0.00
ATOM	852	CG2	VAL	55	84.066	40.538	71.786	0.00	0.00
ATOM	853	1HG2	VAL	55	85.016	40.197	71.373	0.00	0.00
ATOM	854	2HG2	VAL	55	83.461	39.756	72.245	0.00	0.00
ATOM	855	3HG2	VAL	55	83.479	41.007	70.997	0.00	0.00
ATOM	856	C	VAL	55	84.645	39.884	74.789	0.00	0.00
ATOM	857	O	VAL	55	83.992	40.025	75.805	0.00	0.00

ATOM	858	N	ALA	56	85.040	38.645	74.341	0.00	0.00
ATOM	859	H	ALA	56	85.609	38.562	73.511	0.00	0.00
ATOM	860	CA	ALA	56	84.625	37.415	75.007	0.00	0.00
ATOM	861	HA	ALA	56	83.542	37.357	74.902	0.00	0.00
ATOM	862	CB	ALA	56	85.247	36.192	74.292	0.00	0.00
ATOM	863	HB1	ALA	56	86.336	36.194	74.341	0.00	0.00
ATOM	864	HB2	ALA	56	85.021	35.227	74.746	0.00	0.00
ATOM	865	HB3	ALA	56	84.919	36.316	73.260	0.00	0.00
ATOM	866	C	ALA	56	84.949	37.356	76.452	0.00	0.00
ATOM	867	O	ALA	56	84.026	37.046	77.231	0.00	0.00
ATOM	868	N	SER	57	86.212	37.671	76.867	0.00	0.00
ATOM	869	H	SER	57	86.977	37.687	76.209	0.00	0.00
ATOM	870	CA	SER	57	86.562	37.797	78.288	0.00	0.00
ATOM	871	HA	SER	57	86.447	36.805	78.724	0.00	0.00
ATOM	872	CB	SER	57	88.062	38.227	78.433	0.00	0.00
ATOM	873	HB2	SER	57	88.598	37.434	77.911	0.00	0.00
ATOM	874	HB3	SER	57	88.228	39.280	78.207	0.00	0.00
ATOM	875	OG	SER	57	88.479	38.107	79.748	0.00	0.00
ATOM	876	HG	SER	57	88.151	37.268	80.080	0.00	0.00
ATOM	877	C	SER	57	85.639	38.757	79.128	0.00	0.00
ATOM	878	O	SER	57	85.128	38.525	80.219	0.00	0.00
ATOM	879	N	LEU	58	85.537	40.022	78.650	0.00	0.00
ATOM	880	H	LEU	58	85.975	40.201	77.758	0.00	0.00
ATOM	881	CA	LEU	58	84.799	41.043	79.334	0.00	0.00
ATOM	882	HA	LEU	58	85.222	41.147	80.334	0.00	0.00
ATOM	883	CB	LEU	58	84.929	42.387	78.626	0.00	0.00

ATOM	884	HB2	LEU	58	84.453	42.430	77.646	0.00	0.00
ATOM	885	HB3	LEU	58	84.211	43.029	79.136	0.00	0.00
ATOM	886	CG	LEU	58	86.376	42.925	78.632	0.00	0.00
ATOM	887	HG	LEU	58	87.114	42.141	78.459	0.00	0.00
ATOM	888	CD1	LEU	58	86.531	43.913	77.494	0.00	0.00
ATOM	889	1HD1	LEU	58	87.567	44.251	77.485	0.00	0.00
ATOM	890	2HD1	LEU	58	86.162	43.581	76.524	0.00	0.00
ATOM	891	3HD1	LEU	58	85.912	44.759	77.790	0.00	0.00
ATOM	892	CD2	LEU	58	86.695	43.389	80.101	0.00	0.00
ATOM	893	1HD2	LEU	58	86.758	42.548	80.791	0.00	0.00
ATOM	894	2HD2	LEU	58	87.690	43.827	80.029	0.00	0.00
ATOM	895	3HD2	LEU	58	85.876	44.039	80.410	0.00	0.00
ATOM	896	C	LEU	58	83.225	40.793	79.324	0.00	0.00
ATOM	897	O	LEU	58	82.626	41.280	80.227	0.00	0.00
ATOM	898	N	MET	59	82.717	40.032	78.438	0.00	0.00
ATOM	899	H	MET	59	83.301	39.667	77.699	0.00	0.00
ATOM	900	CA	MET	59	81.311	39.551	78.498	0.00	0.00
ATOM	901	HA	MET	59	80.708	40.459	78.497	0.00	0.00
ATOM	902	CB	MET	59	81.053	38.761	77.164	0.00	0.00
ATOM	903	HB2	MET	59	81.994	38.220	77.066	0.00	0.00
ATOM	904	HB3	MET	59	80.191	38.098	77.240	0.00	0.00
ATOM	905	CG	MET	59	80.864	39.727	75.944	0.00	0.00
ATOM	906	HG2	MET	59	79.814	40.019	75.956	0.00	0.00
ATOM	907	HG3	MET	59	81.524	40.594	75.965	0.00	0.00
ATOM	908	SD	MET	59	81.178	38.894	74.360	0.00	0.00
ATOM	909	CE	MET	59	80.575	40.385	73.413	0.00	0.00

ATOM	910	HE1	MET	59	79.494	40.302	73.299	0.00	0.00
ATOM	911	HE2	MET	59	80.940	41.343	73.783	0.00	0.00
ATOM	912	HE3	MET	59	81.091	40.480	72.458	0.00	0.00
ATOM	913	C	MET	59	81.117	38.737	79.785	0.00	0.00
ATOM	914	O	MET	59	80.045	38.688	80.348	0.00	0.00
ATOM	915	N	GLU	60	82.141	38.066	80.358	0.00	0.00
ATOM	916	H	GLU	60	83.058	38.064	79.933	0.00	0.00
ATOM	917	CA	GLU	60	82.175	37.543	81.655	0.00	0.00
ATOM	918	HA	GLU	60	81.173	37.231	81.947	0.00	0.00
ATOM	919	CB	GLU	60	83.019	36.332	81.869	0.00	0.00
ATOM	920	HB2	GLU	60	84.085	36.507	81.721	0.00	0.00
ATOM	921	HB3	GLU	60	82.837	36.060	82.909	0.00	0.00
ATOM	922	CG	GLU	60	82.612	35.113	80.944	0.00	0.00
ATOM	923	HG2	GLU	60	81.537	34.946	81.023	0.00	0.00
ATOM	924	HG3	GLU	60	82.797	35.243	79.877	0.00	0.00
ATOM	925	CD	GLU	60	83.389	33.829	81.340	0.00	0.00
ATOM	926	OE1	GLU	60	83.432	33.427	82.529	0.00	0.00
ATOM	927	OE2	GLU	60	84.051	33.130	80.501	0.00	0.00
ATOM	928	C	GLU	60	82.450	38.532	82.809	0.00	0.00
ATOM	929	O	GLU	60	81.632	38.762	83.708	0.00	0.00
ATOM	930	N	GLU	61	83.576	39.203	82.794	0.00	0.00
ATOM	931	H	GLU	61	84.139	39.104	81.962	0.00	0.00
ATOM	932	CA	GLU	61	84.230	39.860	83.865	0.00	0.00
ATOM	933	HA	GLU	61	84.381	39.063	84.593	0.00	0.00
ATOM	934	CB	GLU	61	85.554	40.361	83.470	0.00	0.00
ATOM	935	HB2	GLU	61	85.412	41.024	82.617	0.00	0.00

ATOM	936	HB3	GLU	61	85.965	41.165	84.080	0.00	0.00
ATOM	937	CG	GLU	61	86.627	39.326	83.070	0.00	0.00
ATOM	938	HG2	GLU	61	86.256	38.711	82.250	0.00	0.00
ATOM	939	HG3	GLU	61	87.494	39.930	82.802	0.00	0.00
ATOM	940	CD	GLU	61	87.141	38.530	84.240	0.00	0.00
ATOM	941	OE1	GLU	61	87.490	37.310	84.134	0.00	0.00
ATOM	942	OE2	GLU	61	87.372	39.083	85.324	0.00	0.00
ATOM	943	C	GLU	61	83.463	41.013	84.477	0.00	0.00
ATOM	944	O	GLU	61	83.767	41.381	85.600	0.00	0.00
ATOM	945	N	GLY	62	82.396	41.526	83.792	0.00	0.00
ATOM	946	H	GLY	62	82.289	41.174	82.851	0.00	0.00
ATOM	947	CA	GLY	62	81.548	42.495	84.414	0.00	0.00
ATOM	948	HA2	GLY	62	82.128	43.266	84.922	0.00	0.00
ATOM	949	HA3	GLY	62	80.990	43.079	83.682	0.00	0.00
ATOM	950	C	GLY	62	80.629	41.989	85.478	0.00	0.00
ATOM	951	O	GLY	62	79.902	42.859	86.003	0.00	0.00
ATOM	952	N	ARG	63	80.533	40.704	85.680	0.00	0.00
ATOM	953	H	ARG	63	80.938	40.082	84.994	0.00	0.00
ATOM	954	CA	ARG	63	79.780	39.980	86.707	0.00	0.00
ATOM	955	HA	ARG	63	78.867	40.534	86.922	0.00	0.00
ATOM	956	CB	ARG	63	79.299	38.628	86.075	0.00	0.00
ATOM	957	HB2	ARG	63	78.928	38.798	85.065	0.00	0.00
ATOM	958	HB3	ARG	63	80.195	38.009	86.033	0.00	0.00
ATOM	959	CG	ARG	63	78.199	37.926	86.849	0.00	0.00
ATOM	960	HG2	ARG	63	78.684	37.335	87.626	0.00	0.00
ATOM	961	HG3	ARG	63	77.589	38.648	87.391	0.00	0.00



ATOM	962	CD	ARG	63	77.300	37.052	86.049	0.00	0.00
ATOM	963	HD2	ARG	63	76.633	36.508	86.718	0.00	0.00
ATOM	964	HD3	ARG	63	76.708	37.622	85.334	0.00	0.00
ATOM	965	NE	ARG	63	77.993	35.992	85.270	0.00	0.00
ATOM	966	HE	ARG	63	78.624	35.419	85.813	0.00	0.00
ATOM	967	CZ	ARG	63	78.100	35.877	83.933	0.00	0.00
ATOM	968	NH1	ARG	63	77.408	36.578	83.046	0.00	0.00
ATOM	969	1HH1	ARG	63	77.395	36.529	82.037	0.00	0.00
ATOM	970	2HH1	ARG	63	76.734	37.252	83.381	0.00	0.00
ATOM	971	NH2	ARG	63	78.966	35.051	83.440	0.00	0.00
ATOM	972	1HH2	ARG	63	79.026	34.894	82.444	0.00	0.00
ATOM	973	2HH2	ARG	63	79.642	34.661	84.080	0.00	0.00
ATOM	974	C	ARG	63	80.525	39.745	88.051	0.00	0.00
ATOM	975	O	ARG	63	79.918	39.321	89.055	0.00	0.00
ATOM	976	N	HIE	64	81.834	40.136	88.197	0.00	0.00
ATOM	977	H	HIE	64	82.263	40.437	87.334	0.00	0.00
ATOM	978	CA	HIE	64	82.667	39.881	89.370	0.00	0.00
ATOM	979	HA	HIE	64	82.162	39.246	90.098	0.00	0.00
ATOM	980	CB	HIE	64	83.990	39.205	88.904	0.00	0.00
ATOM	981	HB2	HIE	64	84.602	39.978	88.440	0.00	0.00
ATOM	982	HB3	HIE	64	84.517	38.947	89.823	0.00	0.00
ATOM	983	CG	HIE	64	83.845	38.055	87.904	0.00	0.00
ATOM	984	ND1	HIE	64	82.731	37.187	87.826	0.00	0.00
ATOM	985	CE1	HIE	64	82.999	36.403	86.797	0.00	0.00
ATOM	986	HE1	HIE	64	82.276	35.696	86.417	0.00	0.00
ATOM	987	NE2	HIE	64	84.258	36.489	86.367	0.00	0.00

ATOM	988	HE2	HIE	64	84.685	35.835	85.727	0.00	0.00
ATOM	989	CD2	HIE	64	84.761	37.621	86.982	0.00	0.00
ATOM	990	HD2	HIE	64	85.606	38.276	86.827	0.00	0.00
ATOM	991	C	HIE	64	82.998	41.191	90.150	0.00	0.00
ATOM	992	O	HIE	64	84.018	41.219	90.860	0.00	0.00
ATOM	993	N	VAL	65	82.131	42.199	90.058	0.00	0.00
ATOM	994	H	VAL	65	81.426	42.123	89.339	0.00	0.00
ATOM	995	CA	VAL	65	82.472	43.592	90.499	0.00	0.00
ATOM	996	HA	VAL	65	83.480	43.557	90.913	0.00	0.00
ATOM	997	CB	VAL	65	82.442	44.616	89.348	0.00	0.00
ATOM	998	HB	VAL	65	81.388	44.677	89.076	0.00	0.00
ATOM	999	CG1	VAL	65	82.830	46.022	89.775	0.00	0.00
ATOM	1000	1HG1	VAL	65	83.885	45.928	90.034	0.00	0.00
ATOM	1001	2HG1	VAL	65	82.792	46.656	88.890	0.00	0.00
ATOM	1002	3HG1	VAL	65	82.137	46.374	90.539	0.00	0.00
ATOM	1003	CG2	VAL	65	83.420	44.062	88.303	0.00	0.00
ATOM	1004	1HG2	VAL	65	84.426	44.065	88.722	0.00	0.00
ATOM	1005	2HG2	VAL	65	83.082	43.094	87.933	0.00	0.00
ATOM	1006	3HG2	VAL	65	83.342	44.698	87.421	0.00	0.00
ATOM	1007	C	VAL	65	81.513	44.135	91.607	0.00	0.00
ATOM	1008	O	VAL	65	81.946	44.516	92.749	0.00	0.00
ATOM	1009	N	LEU	66	80.196	43.837	91.536	0.00	0.00
ATOM	1010	H	LEU	66	79.901	43.209	90.801	0.00	0.00
ATOM	1011	CA	LEU	66	79.181	44.264	92.558	0.00	0.00
ATOM	1012	HA	LEU	66	79.689	44.740	93.397	0.00	0.00
ATOM	1013	CB	LEU	66	78.281	45.369	91.967	0.00	0.00

ATOM	1014	HB2	LEU	66	77.977	45.037	90.974	0.00	0.00
ATOM	1015	HB3	LEU	66	77.386	45.487	92.577	0.00	0.00
ATOM	1016	CG	LEU	66	79.015	46.658	91.867	0.00	0.00
ATOM	1017	HG	LEU	66	79.730	46.685	91.044	0.00	0.00
ATOM	1018	CD1	LEU	66	78.133	47.829	91.584	0.00	0.00
ATOM	1019	1HD1	LEU	66	77.344	47.632	90.857	0.00	0.00
ATOM	1020	2HD1	LEU	66	77.445	48.070	92.394	0.00	0.00
ATOM	1021	3HD1	LEU	66	78.722	48.642	91.160	0.00	0.00
ATOM	1022	CD2	LEU	66	79.776	47.161	93.131	0.00	0.00
ATOM	1023	1HD2	LEU	66	80.627	46.515	93.346	0.00	0.00
ATOM	1024	2HD2	LEU	66	80.066	48.210	93.076	0.00	0.00
ATOM	1025	3HD2	LEU	66	79.149	47.132	94.022	0.00	0.00
ATOM	1026	C	LEU	66	78.306	43.083	93.080	0.00	0.00
ATOM	1027	O	LEU	66	78.044	42.123	92.322	0.00	0.00
ATOM	1028	N	THR	67	77.706	43.262	94.231	0.00	0.00
ATOM	1029	H	THR	67	77.809	44.148	94.705	0.00	0.00
ATOM	1030	CA	THR	67	76.702	42.302	94.820	0.00	0.00
ATOM	1031	HA	THR	67	76.343	41.657	94.018	0.00	0.00
ATOM	1032	CB	THR	67	77.299	41.408	95.871	0.00	0.00
ATOM	1033	HB	THR	67	76.656	40.711	96.407	0.00	0.00
ATOM	1034	CG2	THR	67	78.554	40.654	95.330	0.00	0.00
ATOM	1035	1HG2	THR	67	78.344	40.134	94.395	0.00	0.00
ATOM	1036	2HG2	THR	67	79.400	41.328	95.192	0.00	0.00
ATOM	1037	3HG2	THR	67	78.941	40.012	96.121	0.00	0.00
ATOM	1038	OG1	THR	67	77.853	42.180	96.934	0.00	0.00
ATOM	1039	HG1	THR	67	78.377	41.632	97.523	0.00	0.00

ATOM	1040	C	THR	67	75.493	43.038	95.432	0.00	0.00
ATOM	1041	O	THR	67	75.464	44.213	95.781	0.00	0.00
ATOM	1042	N	ARG	68	74.354	42.279	95.516	0.00	0.00
ATOM	1043	H	ARG	68	74.323	41.351	95.117	0.00	0.00
ATOM	1044	CA	ARG	68	73.111	42.678	96.180	0.00	0.00
ATOM	1045	HA	ARG	68	72.655	43.417	95.521	0.00	0.00
ATOM	1046	CB	ARG	68	72.134	41.469	96.405	0.00	0.00
ATOM	1047	HB2	ARG	68	72.638	40.552	96.712	0.00	0.00
ATOM	1048	HB3	ARG	68	71.470	41.805	97.201	0.00	0.00
ATOM	1049	CG	ARG	68	71.296	41.230	95.154	0.00	0.00
ATOM	1050	HG2	ARG	68	70.551	42.023	95.221	0.00	0.00
ATOM	1051	HG3	ARG	68	71.771	41.433	94.194	0.00	0.00
ATOM	1052	CD	ARG	68	70.565	39.844	94.919	0.00	0.00
ATOM	1053	HD2	ARG	68	71.293	39.033	94.948	0.00	0.00
ATOM	1054	HD3	ARG	68	69.933	39.681	95.792	0.00	0.00
ATOM	1055	NE	ARG	68	69.740	39.895	93.750	0.00	0.00
ATOM	1056	HE	ARG	68	68.797	40.223	93.899	0.00	0.00
ATOM	1057	CZ	ARG	68	70.021	39.279	92.511	0.00	0.00
ATOM	1058	NH1	ARG	68	71.241	38.861	92.199	0.00	0.00
ATOM	1059	1HH1	ARG	68	71.501	38.483	91.299	0.00	0.00
ATOM	1060	2HH1	ARG	68	71.973	38.849	92.896	0.00	0.00
ATOM	1061	NH2	ARG	68	69.133	39.220	91.559	0.00	0.00
ATOM	1062	1HH2	ARG	68	69.245	38.762	90.666	0.00	0.00
ATOM	1063	2HH2	ARG	68	68.154	39.312	91.787	0.00	0.00
ATOM	1064	C	ARG	68	73.226	43.491	97.497	0.00	0.00
ATOM	1065	O	ARG	68	72.269	44.217	97.853	0.00	0.00

ATOM	1066	N	GLU	69	74.204	43.138	98.311	0.00	0.00
ATOM	1067	H	GLU	69	74.764	42.338	98.051	0.00	0.00
ATOM	1068	CA	GLU	69	74.469	43.773	99.630	0.00	0.00
ATOM	1069	HA	GLU	69	73.528	43.968	100.146	0.00	0.00
ATOM	1070	CB	GLU	69	75.348	42.871	100.459	0.00	0.00
ATOM	1071	HB2	GLU	69	76.113	42.616	99.726	0.00	0.00
ATOM	1072	HB3	GLU	69	75.779	43.437	101.285	0.00	0.00
ATOM	1073	CG	GLU	69	74.598	41.709	101.106	0.00	0.00
ATOM	1074	HG2	GLU	69	73.779	41.455	100.433	0.00	0.00
ATOM	1075	HG3	GLU	69	75.199	40.801	101.137	0.00	0.00
ATOM	1076	CD	GLU	69	74.064	41.959	102.514	0.00	0.00
ATOM	1077	OE1	GLU	69	73.062	42.734	102.638	0.00	0.00
ATOM	1078	OE2	GLU	69	74.651	41.330	103.427	0.00	0.00
ATOM	1079	C	GLU	69	75.199	45.134	99.495	0.00	0.00
ATOM	1080	O	GLU	69	75.393	45.843	100.471	0.00	0.00
ATOM	1081	N	GLN	70	75.539	45.524	98.239	0.00	0.00
ATOM	1082	H	GLN	70	75.501	44.784	97.553	0.00	0.00
ATOM	1083	CA	GLN	70	76.165	46.773	97.835	0.00	0.00
ATOM	1084	HA	GLN	70	76.441	47.308	98.743	0.00	0.00
ATOM	1085	CB	GLN	70	77.456	46.543	97.022	0.00	0.00
ATOM	1086	HB2	GLN	70	77.218	46.022	96.095	0.00	0.00
ATOM	1087	HB3	GLN	70	78.050	47.445	96.877	0.00	0.00
ATOM	1088	CG	GLN	70	78.507	45.612	97.753	0.00	0.00
ATOM	1089	HG2	GLN	70	78.730	46.100	98.702	0.00	0.00
ATOM	1090	HG3	GLN	70	77.998	44.667	97.942	0.00	0.00
ATOM	1091	CD	GLN	70	79.798	45.320	96.987	0.00	0.00

ATOM	1092	OE1	GLN	70	80.709	46.113	96.932	0.00	0.00
ATOM	1093	NE2	GLN	70	79.860	44.210	96.269	0.00	0.00
ATOM	1094	1HE2	GLN	70	80.756	43.907	95.917	0.00	0.00
ATOM	1095	2HE2	GLN	70	79.118	43.535	96.153	0.00	0.00
ATOM	1096	C	GLN	70	75.256	47.726	97.056	0.00	0.00
ATOM	1097	O	GLN	70	75.624	48.911	96.843	0.00	0.00
ATOM	1098	N	VAL	71	74.048	47.322	96.587	0.00	0.00
ATOM	1099	H	VAL	71	73.696	46.394	96.772	0.00	0.00
ATOM	1100	CA	VAL	71	73.048	48.059	95.809	0.00	0.00
ATOM	1101	HA	VAL	71	73.282	49.116	95.685	0.00	0.00
ATOM	1102	CB	VAL	71	72.897	47.404	94.367	0.00	0.00
ATOM	1103	HB	VAL	71	72.141	47.892	93.752	0.00	0.00
ATOM	1104	CG1	VAL	71	74.186	47.406	93.525	0.00	0.00
ATOM	1105	1HG1	VAL	71	74.855	46.600	93.827	0.00	0.00
ATOM	1106	2HG1	VAL	71	73.912	47.370	92.471	0.00	0.00
ATOM	1107	3HG1	VAL	71	74.738	48.320	93.743	0.00	0.00
ATOM	1108	CG2	VAL	71	72.385	45.988	94.426	0.00	0.00
ATOM	1109	1HG2	VAL	71	71.531	45.838	95.087	0.00	0.00
ATOM	1110	2HG2	VAL	71	72.086	45.595	93.454	0.00	0.00
ATOM	1111	3HG2	VAL	71	73.183	45.423	94.908	0.00	0.00
ATOM	1112	C	VAL	71	71.699	48.163	96.557	0.00	0.00
ATOM	1113	O	VAL	71	71.390	47.289	97.339	0.00	0.00
ATOM	1114	N	MET	72	70.899	49.239	96.359	0.00	0.00
ATOM	1115	H	MET	72	71.260	49.996	95.795	0.00	0.00
ATOM	1116	CA	MET	72	69.593	49.503	96.968	0.00	0.00
ATOM	1117	HA	MET	72	69.673	49.689	98.039	0.00	0.00

ATOM	1118	CB	MET	72	69.141	50.889	96.449	0.00	0.00
ATOM	1119	HB2	MET	72	69.449	51.046	95.415	0.00	0.00
ATOM	1120	HB3	MET	72	68.068	50.932	96.636	0.00	0.00
ATOM	1121	CG	MET	72	69.610	52.083	97.260	0.00	0.00
ATOM	1122	HG2	MET	72	69.287	51.888	98.282	0.00	0.00
ATOM	1123	HG3	MET	72	70.689	51.942	97.205	0.00	0.00
ATOM	1124	SD	MET	72	69.017	53.645	96.550	0.00	0.00
ATOM	1125	CE	MET	72	67.359	53.572	97.208	0.00	0.00
ATOM	1126	HE1	MET	72	67.469	53.676	98.288	0.00	0.00
ATOM	1127	HE2	MET	72	66.803	54.413	96.795	0.00	0.00
ATOM	1128	HE3	MET	72	66.770	52.674	97.023	0.00	0.00
ATOM	1129	C	MET	72	68.512	48.496	96.601	0.00	0.00
ATOM	1130	O	MET	72	68.615	47.690	95.677	0.00	0.00
ATOM	1131	N	GLU	73	67.297	48.561	97.193	0.00	0.00
ATOM	1132	H	GLU	73	67.189	49.318	97.854	0.00	0.00
ATOM	1133	CA	GLU	73	66.259	47.535	96.936	0.00	0.00
ATOM	1134	HA	GLU	73	66.576	46.494	96.994	0.00	0.00
ATOM	1135	CB	GLU	73	65.235	47.647	98.059	0.00	0.00
ATOM	1136	HB2	GLU	73	65.785	47.461	98.982	0.00	0.00
ATOM	1137	HB3	GLU	73	64.969	48.698	98.174	0.00	0.00
ATOM	1138	CG	GLU	73	63.927	46.779	98.051	0.00	0.00
ATOM	1139	HG2	GLU	73	63.282	47.010	98.899	0.00	0.00
ATOM	1140	HG3	GLU	73	63.377	46.930	97.122	0.00	0.00
ATOM	1141	CD	GLU	73	64.339	45.347	98.062	0.00	0.00
ATOM	1142	OE1	GLU	73	64.794	44.859	96.995	0.00	0.00
ATOM	1143	OE2	GLU	73	64.115	44.612	99.100	0.00	0.00

ATOM	1144	C	GLU	73	65.700	47.696	95.469	0.00	0.00
ATOM	1145	O	GLU	73	65.638	48.867	95.018	0.00	0.00
ATOM	1146	N	GLY	74	65.269	46.660	94.770	0.00	0.00
ATOM	1147	H	GLY	74	65.127	45.758	95.200	0.00	0.00
ATOM	1148	CA	GLY	74	64.755	46.729	93.313	0.00	0.00
ATOM	1149	HA2	GLY	74	64.091	45.903	93.059	0.00	0.00
ATOM	1150	HA3	GLY	74	64.183	47.654	93.234	0.00	0.00
ATOM	1151	C	GLY	74	65.843	46.698	92.314	0.00	0.00
ATOM	1152	O	GLY	74	65.718	46.075	91.271	0.00	0.00
ATOM	1153	N	VAL	75	67.077	47.321	92.598	0.00	0.00
ATOM	1154	H	VAL	75	67.095	47.765	93.505	0.00	0.00
ATOM	1155	CA	VAL	75	68.061	47.554	91.597	0.00	0.00
ATOM	1156	HA	VAL	75	67.653	48.244	90.859	0.00	0.00
ATOM	1157	CB	VAL	75	69.246	48.360	92.221	0.00	0.00
ATOM	1158	HB	VAL	75	69.628	47.907	93.136	0.00	0.00
ATOM	1159	CG1	VAL	75	70.266	48.770	91.262	0.00	0.00
ATOM	1160	1HG1	VAL	75	71.067	49.307	91.769	0.00	0.00
ATOM	1161	2HG1	VAL	75	70.714	47.871	90.839	0.00	0.00
ATOM	1162	3HG1	VAL	75	69.780	49.252	90.414	0.00	0.00
ATOM	1163	CG2	VAL	75	68.817	49.677	92.857	0.00	0.00
ATOM	1164	1HG2	VAL	75	68.492	50.376	92.086	0.00	0.00
ATOM	1165	2HG2	VAL	75	67.969	49.453	93.504	0.00	0.00
ATOM	1166	3HG2	VAL	75	69.569	50.125	93.506	0.00	0.00
ATOM	1167	C	VAL	75	68.552	46.333	90.840	0.00	0.00
ATOM	1168	O	VAL	75	68.385	46.326	89.632	0.00	0.00
ATOM	1169	N	PRO	76	69.066	45.236	91.369	0.00	0.00



ATOM	1170	CD	PRO	76	69.118	44.907	92.779	0.00	0.00
ATOM	1171	HD2	PRO	76	69.818	45.650	93.161	0.00	0.00
ATOM	1172	HD3	PRO	76	68.139	45.007	93.249	0.00	0.00
ATOM	1173	CG	PRO	76	69.555	43.515	92.791	0.00	0.00
ATOM	1174	HG2	PRO	76	70.182	43.315	93.660	0.00	0.00
ATOM	1175	HG3	PRO	76	68.619	42.974	92.932	0.00	0.00
ATOM	1176	CB	PRO	76	70.267	43.197	91.493	0.00	0.00
ATOM	1177	HB2	PRO	76	71.283	43.510	91.735	0.00	0.00
ATOM	1178	HB3	PRO	76	70.186	42.125	91.317	0.00	0.00
ATOM	1179	CA	PRO	76	69.532	44.164	90.528	0.00	0.00
ATOM	1180	HA	PRO	76	70.310	44.535	89.861	0.00	0.00
ATOM	1181	C	PRO	76	68.390	43.359	89.821	0.00	0.00
ATOM	1182	O	PRO	76	68.606	42.642	88.876	0.00	0.00
ATOM	1183	N	GLU	77	67.139	43.491	90.305	0.00	0.00
ATOM	1184	H	GLU	77	66.927	44.062	91.111	0.00	0.00
ATOM	1185	CA	GLU	77	65.998	42.939	89.642	0.00	0.00
ATOM	1186	HA	GLU	77	66.417	41.979	89.339	0.00	0.00
ATOM	1187	CB	GLU	77	64.764	42.790	90.548	0.00	0.00
ATOM	1188	HB2	GLU	77	64.389	43.778	90.815	0.00	0.00
ATOM	1189	HB3	GLU	77	63.985	42.199	90.067	0.00	0.00
ATOM	1190	CG	GLU	77	65.131	41.971	91.811	0.00	0.00
ATOM	1191	HG2	GLU	77	65.762	42.574	92.463	0.00	0.00
ATOM	1192	HG3	GLU	77	64.188	41.852	92.345	0.00	0.00
ATOM	1193	CD	GLU	77	65.543	40.556	91.580	0.00	0.00
ATOM	1194	OE1	GLU	77	65.000	39.851	90.703	0.00	0.00
ATOM	1195	OE2	GLU	77	66.518	40.176	92.230	0.00	0.00

ATOM 1196 C GLU 77 65.754 43.743 88.391 0.00 0.00  
ATOM 1197 O GLU 77 65.604 43.175 87.287 0.00 0.00  
ATOM 1198 N MET 78 65.950 45.081 88.398 0.00 0.00  
ATOM 1199 H MET 78 66.073 45.462 89.326 0.00 0.00  
ATOM 1200 CA MET 78 66.048 45.934 87.170 0.00 0.00  
ATOM 1201 HA MET 78 65.245 45.575 86.527 0.00 0.00  
ATOM 1202 CB MET 78 65.868 47.383 87.509 0.00 0.00  
ATOM 1203 HB2 MET 78 66.713 47.637 88.150 0.00 0.00  
ATOM 1204 HB3 MET 78 65.869 47.967 86.589 0.00 0.00  
ATOM 1205 CG MET 78 64.629 47.687 88.291 0.00 0.00  
ATOM 1206 HG2 MET 78 63.823 47.229 87.717 0.00 0.00  
ATOM 1207 HG3 MET 78 64.738 47.137 89.225 0.00 0.00  
ATOM 1208 SD MET 78 64.128 49.392 88.691 0.00 0.00  
ATOM 1209 CE MET 78 65.641 49.949 89.511 0.00 0.00  
ATOM 1210 HE1 MET 78 65.584 51.034 89.606 0.00 0.00  
ATOM 1211 HE2 MET 78 65.717 49.396 90.448 0.00 0.00  
ATOM 1212 HE3 MET 78 66.517 49.715 88.906 0.00 0.00  
ATOM 1213 C MET 78 67.286 45.803 86.320 0.00 0.00  
ATOM 1214 O MET 78 67.393 46.577 85.299 0.00 0.00  
ATOM 1215 N ILE 79 68.240 44.898 86.585 0.00 0.00  
ATOM 1216 H ILE 79 68.035 44.290 87.365 0.00 0.00  
ATOM 1217 CA ILE 79 69.511 44.792 85.848 0.00 0.00  
ATOM 1218 HA ILE 79 69.496 45.489 85.010 0.00 0.00  
ATOM 1219 CB ILE 79 70.774 45.296 86.614 0.00 0.00  
ATOM 1220 HB ILE 79 70.904 44.680 87.503 0.00 0.00  
ATOM 1221 CG2 ILE 79 72.140 45.268 85.863 0.00 0.00

ATOM	1222	1HG2	ILE	79	72.084	44.483	85.110	0.00	0.00
ATOM	1223	2HG2	ILE	79	72.314	46.176	85.285	0.00	0.00
ATOM	1224	3HG2	ILE	79	72.893	45.016	86.609	0.00	0.00
ATOM	1225	CG1	ILE	79	70.578	46.787	87.089	0.00	0.00
ATOM	1226	2HG1	ILE	79	70.766	47.405	86.211	0.00	0.00
ATOM	1227	3HG1	ILE	79	69.530	47.034	87.260	0.00	0.00
ATOM	1228	CD1	ILE	79	71.533	47.037	88.278	0.00	0.00
ATOM	1229	1HD1	ILE	79	71.680	48.086	88.532	0.00	0.00
ATOM	1230	2HD1	ILE	79	71.196	46.419	89.110	0.00	0.00
ATOM	1231	3HD1	ILE	79	72.540	46.688	88.050	0.00	0.00
ATOM	1232	C	ILE	79	69.632	43.438	85.123	0.00	0.00
ATOM	1233	O	ILE	79	70.483	42.641	85.566	0.00	0.00
ATOM	1234	N	PRO	80	68.813	43.014	84.081	0.00	0.00
ATOM	1235	CD	PRO	80	67.683	43.764	83.489	0.00	0.00
ATOM	1236	HD2	PRO	80	66.850	43.955	84.166	0.00	0.00
ATOM	1237	HD3	PRO	80	68.049	44.741	83.176	0.00	0.00
ATOM	1238	CG	PRO	80	67.217	42.944	82.287	0.00	0.00
ATOM	1239	HG2	PRO	80	66.143	43.097	82.177	0.00	0.00
ATOM	1240	HG3	PRO	80	67.773	43.246	81.400	0.00	0.00
ATOM	1241	CB	PRO	80	67.684	41.521	82.579	0.00	0.00
ATOM	1242	HB2	PRO	80	67.014	41.002	83.264	0.00	0.00
ATOM	1243	HB3	PRO	80	67.856	40.954	81.664	0.00	0.00
ATOM	1244	CA	PRO	80	69.025	41.727	83.306	0.00	0.00
ATOM	1245	HA	PRO	80	69.323	40.972	84.034	0.00	0.00
ATOM	1246	C	PRO	80	70.282	41.887	82.402	0.00	0.00
ATOM	1247	O	PRO	80	71.017	40.941	82.276	0.00	0.00

ATOM	1248	N	ASP	81	70.597	43.011	81.717	0.00	0.00
ATOM	1249	H	ASP	81	69.986	43.814	81.672	0.00	0.00
ATOM	1250	CA	ASP	81	71.833	43.142	80.843	0.00	0.00
ATOM	1251	HA	ASP	81	72.498	42.324	81.122	0.00	0.00
ATOM	1252	CB	ASP	81	71.448	42.912	79.371	0.00	0.00
ATOM	1253	HB2	ASP	81	72.412	42.944	78.865	0.00	0.00
ATOM	1254	HB3	ASP	81	71.040	41.937	79.104	0.00	0.00
ATOM	1255	CG	ASP	81	70.515	43.938	78.655	0.00	0.00
ATOM	1256	OD1	ASP	81	69.536	44.464	79.264	0.00	0.00
ATOM	1257	OD2	ASP	81	70.814	44.280	77.520	0.00	0.00
ATOM	1258	C	ASP	81	72.506	44.585	80.979	0.00	0.00
ATOM	1259	O	ASP	81	71.830	45.536	81.335	0.00	0.00
ATOM	1260	N	ILE	82	73.800	44.694	80.606	0.00	0.00
ATOM	1261	H	ILE	82	74.235	43.838	80.291	0.00	0.00
ATOM	1262	CA	ILE	82	74.550	45.953	80.387	0.00	0.00
ATOM	1263	HA	ILE	82	73.822	46.721	80.127	0.00	0.00
ATOM	1264	CB	ILE	82	75.465	46.383	81.669	0.00	0.00
ATOM	1265	HB	ILE	82	75.953	47.332	81.446	0.00	0.00
ATOM	1266	CG2	ILE	82	74.479	46.619	82.886	0.00	0.00
ATOM	1267	1HG2	ILE	82	75.063	46.924	83.754	0.00	0.00
ATOM	1268	2HG2	ILE	82	73.748	47.377	82.604	0.00	0.00
ATOM	1269	3HG2	ILE	82	73.847	45.766	83.134	0.00	0.00
ATOM	1270	CG1	ILE	82	76.661	45.384	81.822	0.00	0.00
ATOM	1271	2HG1	ILE	82	76.196	44.408	81.961	0.00	0.00
ATOM	1272	3HG1	ILE	82	77.276	45.358	80.923	0.00	0.00
ATOM	1273	CD1	ILE	82	77.682	45.682	82.927	0.00	0.00

ATOM	1274	1HD1	ILE	82	78.294	44.810	83.155	0.00	0.00
ATOM	1275	2HD1	ILE	82	78.287	46.566	82.726	0.00	0.00
ATOM	1276	3HD1	ILE	82	77.168	45.913	83.860	0.00	0.00
ATOM	1277	C	ILE	82	75.438	45.870	79.158	0.00	0.00
ATOM	1278	O	ILE	82	75.930	44.863	78.762	0.00	0.00
ATOM	1279	N	GLN	83	75.591	46.955	78.454	0.00	0.00
ATOM	1280	H	GLN	83	75.239	47.811	78.859	0.00	0.00
ATOM	1281	CA	GLN	83	76.294	46.996	77.170	0.00	0.00
ATOM	1282	HA	GLN	83	76.900	46.095	77.075	0.00	0.00
ATOM	1283	CB	GLN	83	75.221	46.963	76.064	0.00	0.00
ATOM	1284	HB2	GLN	83	74.560	47.830	76.056	0.00	0.00
ATOM	1285	HB3	GLN	83	75.831	46.942	75.162	0.00	0.00
ATOM	1286	CG	GLN	83	74.362	45.721	76.027	0.00	0.00
ATOM	1287	HG2	GLN	83	75.065	44.910	76.215	0.00	0.00
ATOM	1288	HG3	GLN	83	73.610	45.709	76.816	0.00	0.00
ATOM	1289	CD	GLN	83	73.608	45.408	74.732	0.00	0.00
ATOM	1290	OE1	GLN	83	72.490	45.888	74.448	0.00	0.00
ATOM	1291	NE2	GLN	83	74.095	44.580	73.829	0.00	0.00
ATOM	1292	1HE2	GLN	83	73.472	44.328	73.074	0.00	0.00
ATOM	1293	2HE2	GLN	83	74.970	44.086	73.929	0.00	0.00
ATOM	1294	C	GLN	83	77.148	48.236	77.046	0.00	0.00
ATOM	1295	O	GLN	83	76.815	49.344	77.459	0.00	0.00
ATOM	1296	N	VAL	84	78.344	48.136	76.505	0.00	0.00
ATOM	1297	H	VAL	84	78.503	47.295	75.969	0.00	0.00
ATOM	1298	CA	VAL	84	79.239	49.253	76.100	0.00	0.00
ATOM	1299	HA	VAL	84	78.566	50.109	76.057	0.00	0.00

ATOM	1300	CB	VAL	84	80.282	49.747	77.038	0.00	0.00
ATOM	1301	HB	VAL	84	80.829	50.583	76.602	0.00	0.00
ATOM	1302	CG1	VAL	84	79.860	50.209	78.484	0.00	0.00
ATOM	1303	1HG1	VAL	84	80.740	50.514	79.051	0.00	0.00
ATOM	1304	2HG1	VAL	84	79.083	50.973	78.503	0.00	0.00
ATOM	1305	3HG1	VAL	84	79.577	49.282	78.982	0.00	0.00
ATOM	1306	CG2	VAL	84	81.366	48.698	77.180	0.00	0.00
ATOM	1307	1HG2	VAL	84	82.341	49.146	77.372	0.00	0.00
ATOM	1308	2HG2	VAL	84	81.142	47.965	77.954	0.00	0.00
ATOM	1309	3HG2	VAL	84	81.389	48.117	76.258	0.00	0.00
ATOM	1310	C	VAL	84	79.822	49.066	74.659	0.00	0.00
ATOM	1311	O	VAL	84	79.935	47.971	74.253	0.00	0.00
ATOM	1312	N	GLU	85	80.214	50.123	73.971	0.00	0.00
ATOM	1313	H	GLU	85	80.083	51.053	74.344	0.00	0.00
ATOM	1314	CA	GLU	85	81.308	50.053	72.961	0.00	0.00
ATOM	1315	HA	GLU	85	81.741	49.058	72.858	0.00	0.00
ATOM	1316	CB	GLU	85	80.830	50.605	71.574	0.00	0.00
ATOM	1317	HB2	GLU	85	80.690	51.679	71.697	0.00	0.00
ATOM	1318	HB3	GLU	85	81.642	50.492	70.855	0.00	0.00
ATOM	1319	CG	GLU	85	79.589	49.914	70.972	0.00	0.00
ATOM	1320	HG2	GLU	85	78.637	50.433	71.086	0.00	0.00
ATOM	1321	HG3	GLU	85	79.486	48.955	71.480	0.00	0.00
ATOM	1322	CD	GLU	85	79.731	49.626	69.484	0.00	0.00
ATOM	1323	OE1	GLU	85	80.582	50.161	68.792	0.00	0.00
ATOM	1324	OE2	GLU	85	78.878	48.914	68.901	0.00	0.00
ATOM	1325	C	GLU	85	82.546	50.811	73.379	0.00	0.00

ATOM	1326	O	GLU	85	82.511	51.777	74.119	0.00	0.00
ATOM	1327	N	ALA	86	83.772	50.349	73.093	0.00	0.00
ATOM	1328	H	ALA	86	83.757	49.459	72.615	0.00	0.00
ATOM	1329	CA	ALA	86	85.109	50.911	73.438	0.00	0.00
ATOM	1330	HA	ALA	86	85.004	51.986	73.584	0.00	0.00
ATOM	1331	CB	ALA	86	85.543	50.204	74.687	0.00	0.00
ATOM	1332	HB1	ALA	86	85.674	49.131	74.550	0.00	0.00
ATOM	1333	HB2	ALA	86	86.493	50.666	74.955	0.00	0.00
ATOM	1334	HB3	ALA	86	84.721	50.324	75.393	0.00	0.00
ATOM	1335	C	ALA	86	86.035	50.758	72.240	0.00	0.00
ATOM	1336	O	ALA	86	85.870	49.787	71.509	0.00	0.00
ATOM	1337	N	THR	87	87.111	51.574	72.108	0.00	0.00
ATOM	1338	H	THR	87	87.244	52.286	72.811	0.00	0.00
ATOM	1339	CA	THR	87	87.920	51.624	70.929	0.00	0.00
ATOM	1340	HA	THR	87	87.225	51.403	70.119	0.00	0.00
ATOM	1341	CB	THR	87	88.594	52.952	70.526	0.00	0.00
ATOM	1342	HB	THR	87	89.490	53.110	71.126	0.00	0.00
ATOM	1343	CG2	THR	87	88.957	52.845	69.010	0.00	0.00
ATOM	1344	1HG2	THR	87	89.376	53.834	68.822	0.00	0.00
ATOM	1345	2HG2	THR	87	89.788	52.225	68.672	0.00	0.00
ATOM	1346	3HG2	THR	87	88.082	52.590	68.412	0.00	0.00
ATOM	1347	OG1	THR	87	87.628	53.980	70.511	0.00	0.00
ATOM	1348	HG1	THR	87	87.540	54.212	71.439	0.00	0.00
ATOM	1349	C	THR	87	88.979	50.452	70.880	0.00	0.00
ATOM	1350	O	THR	87	89.438	50.084	71.980	0.00	0.00
ATOM	1351	N	PHE	88	89.339	50.000	69.698	0.00	0.00

ATOM	1352	H	PHE	88	88.761	50.341	68.943	0.00	0.00
ATOM	1353	CA	PHE	88	90.074	48.775	69.359	0.00	0.00
ATOM	1354	HA	PHE	88	90.614	48.441	70.245	0.00	0.00
ATOM	1355	CB	PHE	88	88.976	47.762	69.128	0.00	0.00
ATOM	1356	HB2	PHE	88	87.983	48.197	69.016	0.00	0.00
ATOM	1357	HB3	PHE	88	88.985	47.242	68.171	0.00	0.00
ATOM	1358	CG	PHE	88	88.782	46.637	70.077	0.00	0.00
ATOM	1359	CD1	PHE	88	89.196	45.288	69.811	0.00	0.00
ATOM	1360	HD1	PHE	88	89.623	45.068	68.843	0.00	0.00
ATOM	1361	CE1	PHE	88	88.995	44.211	70.714	0.00	0.00
ATOM	1362	HE1	PHE	88	89.359	43.203	70.583	0.00	0.00
ATOM	1363	CZ	PHE	88	88.400	44.538	71.960	0.00	0.00
ATOM	1364	HZ	PHE	88	88.285	43.822	72.761	0.00	0.00
ATOM	1365	CE2	PHE	88	87.924	45.857	72.188	0.00	0.00
ATOM	1366	HE2	PHE	88	87.316	45.938	73.076	0.00	0.00
ATOM	1367	CD2	PHE	88	88.124	46.904	71.283	0.00	0.00
ATOM	1368	HD2	PHE	88	87.692	47.880	71.444	0.00	0.00
ATOM	1369	C	PHE	88	90.916	48.966	68.158	0.00	0.00
ATOM	1370	O	PHE	88	90.820	50.018	67.488	0.00	0.00
ATOM	1371	N	PRO	89	91.677	47.964	67.733	0.00	0.00
ATOM	1372	CD	PRO	89	91.897	46.653	68.316	0.00	0.00
ATOM	1373	HD2	PRO	89	91.180	45.902	67.986	0.00	0.00
ATOM	1374	HD3	PRO	89	91.864	46.696	69.405	0.00	0.00
ATOM	1375	CG	PRO	89	93.348	46.217	67.889	0.00	0.00
ATOM	1376	HG2	PRO	89	94.064	46.654	68.585	0.00	0.00
ATOM	1377	HG3	PRO	89	93.403	45.130	67.834	0.00	0.00



ATOM	1378	CB	PRO	89	93.444	46.813	66.508	0.00	0.00
ATOM	1379	HB2	PRO	89	94.466	47.035	66.200	0.00	0.00
ATOM	1380	HB3	PRO	89	92.949	46.130	65.817	0.00	0.00
ATOM	1381	CA	PRO	89	92.665	48.150	66.625	0.00	0.00
ATOM	1382	HA	PRO	89	93.368	48.969	66.776	0.00	0.00
ATOM	1383	C	PRO	89	91.964	48.405	65.260	0.00	0.00
ATOM	1384	O	PRO	89	92.627	49.008	64.434	0.00	0.00
ATOM	1385	N	ASP	90	90.667	48.040	65.059	0.00	0.00
ATOM	1386	H	ASP	90	90.223	47.570	65.835	0.00	0.00
ATOM	1387	CA	ASP	90	89.870	48.184	63.837	0.00	0.00
ATOM	1388	HA	ASP	90	90.558	48.366	63.011	0.00	0.00
ATOM	1389	CB	ASP	90	89.237	46.836	63.546	0.00	0.00
ATOM	1390	HB2	ASP	90	88.829	46.728	62.541	0.00	0.00
ATOM	1391	HB3	ASP	90	90.046	46.112	63.637	0.00	0.00
ATOM	1392	CG	ASP	90	88.182	46.388	64.579	0.00	0.00
ATOM	1393	OD1	ASP	90	86.972	46.255	64.282	0.00	0.00
ATOM	1394	OD2	ASP	90	88.660	46.066	65.712	0.00	0.00
ATOM	1395	C	ASP	90	88.834	49.351	63.891	0.00	0.00
ATOM	1396	O	ASP	90	88.406	49.718	62.817	0.00	0.00
ATOM	1397	N	GLY	91	88.404	49.850	65.027	0.00	0.00
ATOM	1398	H	GLY	91	88.765	49.413	65.864	0.00	0.00
ATOM	1399	CA	GLY	91	87.322	50.812	65.257	0.00	0.00
ATOM	1400	HA2	GLY	91	87.688	51.832	65.138	0.00	0.00
ATOM	1401	HA3	GLY	91	86.544	50.632	64.515	0.00	0.00
ATOM	1402	C	GLY	91	86.843	50.616	66.686	0.00	0.00
ATOM	1403	O	GLY	91	87.693	50.423	67.560	0.00	0.00

ATOM	1404	N	SER	92	85.589	50.783	66.908	0.00	0.00
ATOM	1405	H	SER	92	84.968	50.992	66.139	0.00	0.00
ATOM	1406	CA	SER	92	84.874	50.345	68.095	0.00	0.00
ATOM	1407	HA	SER	92	85.595	50.358	68.912	0.00	0.00
ATOM	1408	CB	SER	92	83.755	51.242	68.269	0.00	0.00
ATOM	1409	HB2	SER	92	82.974	51.090	67.524	0.00	0.00
ATOM	1410	HB3	SER	92	83.196	51.132	69.198	0.00	0.00
ATOM	1411	OG	SER	92	84.231	52.607	68.282	0.00	0.00
ATOM	1412	HG	SER	92	84.349	52.828	67.355	0.00	0.00
ATOM	1413	C	SER	92	84.354	48.912	67.972	0.00	0.00
ATOM	1414	O	SER	92	84.020	48.322	66.878	0.00	0.00
ATOM	1415	N	LYS	93	84.171	48.272	69.119	0.00	0.00
ATOM	1416	H	LYS	93	84.553	48.825	69.873	0.00	0.00
ATOM	1417	CA	LYS	93	83.573	46.873	69.370	0.00	0.00
ATOM	1418	HA	LYS	93	83.076	46.527	68.463	0.00	0.00
ATOM	1419	CB	LYS	93	84.686	45.873	69.656	0.00	0.00
ATOM	1420	HB2	LYS	93	85.093	46.128	70.634	0.00	0.00
ATOM	1421	HB3	LYS	93	84.284	44.861	69.712	0.00	0.00
ATOM	1422	CG	LYS	93	85.856	45.699	68.731	0.00	0.00
ATOM	1423	HG2	LYS	93	86.465	46.603	68.706	0.00	0.00
ATOM	1424	HG3	LYS	93	86.585	45.061	69.231	0.00	0.00
ATOM	1425	CD	LYS	93	85.587	45.430	67.308	0.00	0.00
ATOM	1426	HD2	LYS	93	84.567	45.751	67.099	0.00	0.00
ATOM	1427	HD3	LYS	93	86.361	46.042	66.845	0.00	0.00
ATOM	1428	CE	LYS	93	85.816	43.925	66.971	0.00	0.00
ATOM	1429	HE2	LYS	93	86.781	43.587	67.351	0.00	0.00

ATOM	1430	HE3	LYS	93	84.970	43.338	67.328	0.00	0.00
ATOM	1431	NZ	LYS	93	85.825	43.733	65.539	0.00	0.00
ATOM	1432	HZ1	LYS	93	84.818	43.658	65.496	0.00	0.00
ATOM	1433	HZ2	LYS	93	86.154	44.529	65.012	0.00	0.00
ATOM	1434	HZ3	LYS	93	86.298	42.887	65.255	0.00	0.00
ATOM	1435	C	LYS	93	82.517	46.690	70.498	0.00	0.00
ATOM	1436	O	LYS	93	82.592	47.388	71.504	0.00	0.00
ATOM	1437	N	LEU	94	81.527	45.850	70.270	0.00	0.00
ATOM	1438	H	LEU	94	81.510	45.513	69.318	0.00	0.00
ATOM	1439	CA	LEU	94	80.504	45.624	71.212	0.00	0.00
ATOM	1440	HA	LEU	94	80.309	46.641	71.552	0.00	0.00
ATOM	1441	CB	LEU	94	79.285	45.205	70.412	0.00	0.00
ATOM	1442	HB2	LEU	94	79.083	45.777	69.507	0.00	0.00
ATOM	1443	HB3	LEU	94	79.551	44.198	70.091	0.00	0.00
ATOM	1444	CG	LEU	94	78.035	45.234	71.274	0.00	0.00
ATOM	1445	HG	LEU	94	78.231	44.547	72.098	0.00	0.00
ATOM	1446	CD1	LEU	94	77.538	46.513	71.830	0.00	0.00
ATOM	1447	1HD1	LEU	94	77.109	47.160	71.065	0.00	0.00
ATOM	1448	2HD1	LEU	94	76.841	46.261	72.629	0.00	0.00
ATOM	1449	3HD1	LEU	94	78.284	47.119	72.344	0.00	0.00
ATOM	1450	CD2	LEU	94	76.879	44.527	70.525	0.00	0.00
ATOM	1451	1HD2	LEU	94	77.125	43.468	70.437	0.00	0.00
ATOM	1452	2HD2	LEU	94	76.011	44.386	71.169	0.00	0.00
ATOM	1453	3HD2	LEU	94	76.654	44.945	69.544	0.00	0.00
ATOM	1454	C	LEU	94	80.933	44.719	72.373	0.00	0.00
ATOM	1455	O	LEU	94	81.351	43.585	72.196	0.00	0.00

ATOM 1456 N VAL 95 80.594 45.124 73.592 0.00 0.00  
ATOM 1457 H VAL 95 80.087 45.996 73.635 0.00 0.00  
ATOM 1458 CA VAL 95 80.682 44.322 74.824 0.00 0.00  
ATOM 1459 HA VAL 95 80.870 43.283 74.554 0.00 0.00  
ATOM 1460 CB VAL 95 81.785 44.797 75.771 0.00 0.00  
ATOM 1461 HB VAL 95 81.564 45.808 76.111 0.00 0.00  
ATOM 1462 CG1 VAL 95 81.970 43.848 76.957 0.00 0.00  
ATOM 1463 1HG1 VAL 95 82.187 42.834 76.622 0.00 0.00  
ATOM 1464 2HG1 VAL 95 82.846 44.269 77.452 0.00 0.00  
ATOM 1465 3HG1 VAL 95 81.134 44.030 77.633 0.00 0.00  
ATOM 1466 CG2 VAL 95 83.259 44.808 75.240 0.00 0.00  
ATOM 1467 1HG2 VAL 95 83.854 45.499 75.837 0.00 0.00  
ATOM 1468 2HG2 VAL 95 83.674 43.803 75.320 0.00 0.00  
ATOM 1469 3HG2 VAL 95 83.269 45.018 74.171 0.00 0.00  
ATOM 1470 C VAL 95 79.334 44.394 75.522 0.00 0.00  
ATOM 1471 O VAL 95 78.656 45.425 75.596 0.00 0.00  
ATOM 1472 N THR 96 78.918 43.275 76.069 0.00 0.00  
ATOM 1473 H THR 96 79.572 42.511 76.161 0.00 0.00  
ATOM 1474 CA THR 96 77.626 42.959 76.604 0.00 0.00  
ATOM 1475 HA THR 96 77.200 43.884 76.993 0.00 0.00  
ATOM 1476 CB THR 96 76.838 42.267 75.543 0.00 0.00  
ATOM 1477 HB THR 96 77.383 41.421 75.123 0.00 0.00  
ATOM 1478 CG2 THR 96 75.425 41.749 75.790 0.00 0.00  
ATOM 1479 1HG2 THR 96 75.357 40.900 76.471 0.00 0.00  
ATOM 1480 2HG2 THR 96 74.790 42.422 76.366 0.00 0.00  
ATOM 1481 3HG2 THR 96 75.012 41.489 74.815 0.00 0.00

ATOM	1482	OG1	THR	96	76.658	43.106	74.390	0.00	0.00
ATOM	1483	HG1	THR	96	76.659	42.536	73.617	0.00	0.00
ATOM	1484	C	THR	96	77.769	41.973	77.808	0.00	0.00
ATOM	1485	O	THR	96	78.484	41.022	77.683	0.00	0.00
ATOM	1486	N	VAL	97	77.095	42.092	78.963	0.00	0.00
ATOM	1487	H	VAL	97	76.770	43.043	79.065	0.00	0.00
ATOM	1488	CA	VAL	97	77.114	41.241	80.173	0.00	0.00
ATOM	1489	HA	VAL	97	77.572	40.285	79.919	0.00	0.00
ATOM	1490	CB	VAL	97	77.966	41.840	81.331	0.00	0.00
ATOM	1491	HB	VAL	97	77.323	42.505	81.908	0.00	0.00
ATOM	1492	CG1	VAL	97	78.181	40.738	82.405	0.00	0.00
ATOM	1493	1HG1	VAL	97	78.651	39.827	82.036	0.00	0.00
ATOM	1494	2HG1	VAL	97	78.790	41.147	83.211	0.00	0.00
ATOM	1495	3HG1	VAL	97	77.269	40.355	82.865	0.00	0.00
ATOM	1496	CG2	VAL	97	79.336	42.426	81.039	0.00	0.00
ATOM	1497	1HG2	VAL	97	79.835	42.869	81.901	0.00	0.00
ATOM	1498	2HG2	VAL	97	79.879	41.544	80.697	0.00	0.00
ATOM	1499	3HG2	VAL	97	79.165	43.139	80.233	0.00	0.00
ATOM	1500	C	VAL	97	75.669	40.918	80.761	0.00	0.00
ATOM	1501	O	VAL	97	74.860	41.914	80.936	0.00	0.00
ATOM	1502	N	HIE	98	75.432	39.675	81.166	0.00	0.00
ATOM	1503	H	HIE	98	76.195	39.016	81.092	0.00	0.00
ATOM	1504	CA	HIE	98	74.101	39.227	81.660	0.00	0.00
ATOM	1505	HA	HIE	98	73.296	39.934	81.459	0.00	0.00
ATOM	1506	CB	HIE	98	73.697	37.968	80.992	0.00	0.00
ATOM	1507	HB2	HIE	98	73.595	38.219	79.936	0.00	0.00

ATOM	1508	HB3	HIE	98	74.489	37.237	81.158	0.00	0.00
ATOM	1509	CG	HIE	98	72.329	37.329	81.387	0.00	0.00
ATOM	1510	ND1	HIE	98	72.132	36.479	82.501	0.00	0.00
ATOM	1511	CE1	HIE	98	70.817	36.370	82.695	0.00	0.00
ATOM	1512	HE1	HIE	98	70.349	35.923	83.560	0.00	0.00
ATOM	1513	NE2	HIE	98	70.200	37.043	81.705	0.00	0.00
ATOM	1514	HE2	HIE	98	69.205	37.203	81.636	0.00	0.00
ATOM	1515	CD2	HIE	98	71.128	37.699	80.966	0.00	0.00
ATOM	1516	HD2	HIE	98	71.019	38.419	80.169	0.00	0.00
ATOM	1517	C	HIE	98	74.042	39.002	83.131	0.00	0.00
ATOM	1518	O	HIE	98	74.979	38.304	83.646	0.00	0.00
ATOM	1519	N	ASN	99	72.985	39.500	83.820	0.00	0.00
ATOM	1520	H	ASN	99	72.236	39.910	83.281	0.00	0.00
ATOM	1521	CA	ASN	99	72.757	39.505	85.263	0.00	0.00
ATOM	1522	HA	ASN	99	72.163	40.388	85.503	0.00	0.00
ATOM	1523	CB	ASN	99	71.865	38.305	85.588	0.00	0.00
ATOM	1524	HB2	ASN	99	70.954	38.403	84.998	0.00	0.00
ATOM	1525	HB3	ASN	99	72.451	37.439	85.279	0.00	0.00
ATOM	1526	CG	ASN	99	71.524	38.225	86.993	0.00	0.00
ATOM	1527	OD1	ASN	99	71.519	39.212	87.686	0.00	0.00
ATOM	1528	ND2	ASN	99	71.297	37.048	87.501	0.00	0.00
ATOM	1529	1HD2	ASN	99	71.309	36.898	88.500	0.00	0.00
ATOM	1530	2HD2	ASN	99	71.071	36.233	86.950	0.00	0.00
ATOM	1531	C	ASN	99	74.012	39.751	86.122	0.00	0.00
ATOM	1532	O	ASN	99	74.454	38.749	86.779	0.00	0.00
ATOM	1533	N	PRO	100	74.662	41.012	86.062	0.00	0.00

ATOM	1534	CD	PRO	100	74.291	42.054	85.062	0.00	0.00
ATOM	1535	HD2	PRO	100	73.573	41.778	84.290	0.00	0.00
ATOM	1536	HD3	PRO	100	73.920	42.909	85.628	0.00	0.00
ATOM	1537	CG	PRO	100	75.617	42.410	84.470	0.00	0.00
ATOM	1538	HG2	PRO	100	75.983	41.614	83.822	0.00	0.00
ATOM	1539	HG3	PRO	100	75.670	43.393	84.001	0.00	0.00
ATOM	1540	CB	PRO	100	76.467	42.572	85.713	0.00	0.00
ATOM	1541	HB2	PRO	100	77.534	42.594	85.492	0.00	0.00
ATOM	1542	HB3	PRO	100	76.318	43.411	86.392	0.00	0.00
ATOM	1543	CA	PRO	100	76.008	41.336	86.503	0.00	0.00
ATOM	1544	HA	PRO	100	76.627	40.498	86.183	0.00	0.00
ATOM	1545	C	PRO	100	76.081	41.601	88.007	0.00	0.00
ATOM	1546	O	PRO	100	77.193	41.845	88.474	0.00	0.00
ATOM	1547	N	ILE	101	74.994	41.356	88.721	0.00	0.00
ATOM	1548	H	ILE	101	74.139	41.537	88.214	0.00	0.00
ATOM	1549	CA	ILE	101	74.944	41.455	90.175	0.00	0.00
ATOM	1550	HA	ILE	101	75.960	41.717	90.470	0.00	0.00
ATOM	1551	CB	ILE	101	74.006	42.514	90.711	0.00	0.00
ATOM	1552	HB	ILE	101	73.012	42.171	90.423	0.00	0.00
ATOM	1553	CG2	ILE	101	74.086	42.596	92.262	0.00	0.00
ATOM	1554	1HG2	ILE	101	73.274	43.227	92.624	0.00	0.00
ATOM	1555	2HG2	ILE	101	73.758	41.658	92.710	0.00	0.00
ATOM	1556	3HG2	ILE	101	75.100	42.768	92.624	0.00	0.00
ATOM	1557	CG1	ILE	101	74.408	43.904	90.060	0.00	0.00
ATOM	1558	2HG1	ILE	101	75.443	44.130	90.319	0.00	0.00
ATOM	1559	3HG1	ILE	101	74.479	43.859	88.973	0.00	0.00

ATOM	1560	CD1	ILE	101	73.501	45.005	90.488	0.00	0.00
ATOM	1561	1HD1	ILE	101	73.714	45.150	91.547	0.00	0.00
ATOM	1562	2HD1	ILE	101	73.691	45.931	89.945	0.00	0.00
ATOM	1563	3HD1	ILE	101	72.465	44.769	90.246	0.00	0.00
ATOM	1564	C	ILE	101	74.611	40.139	90.811	0.00	0.00
ATOM	1565	O	ILE	101	73.588	39.494	90.448	0.00	0.00
ATOM	1566	N	ILC	102	75.373	39.694	91.846	0.00	0.00
ATOM	1567	H	ILC	102	76.087	40.343	92.144	0.00	0.00
ATOM	1568	CA	ILC	102	75.120	38.416	92.625	0.00	0.00
ATOM	1569	HA	ILC	102	74.552	37.727	91.999	0.00	0.00
ATOM	1570	CB	ILC	102	76.492	37.740	92.946	0.00	0.00
ATOM	1571	HB	ILC	102	76.907	38.220	93.832	0.00	0.00
ATOM	1572	CG2	ILC	102	76.134	36.355	93.309	0.00	0.00
ATOM	1573	1HG2	ILC	102	75.305	36.303	94.014	0.00	0.00
ATOM	1574	2HG2	ILC	102	75.768	35.814	92.436	0.00	0.00
ATOM	1575	3HG2	ILC	102	77.047	35.888	93.679	0.00	0.00
ATOM	1576	CG1	ILC	102	77.527	37.697	91.758	0.00	0.00
ATOM	1577	2HG1	ILC	102	77.148	37.134	90.905	0.00	0.00
ATOM	1578	3HG1	ILC	102	77.761	38.696	91.390	0.00	0.00
ATOM	1579	CD1	ILC	102	78.843	37.137	92.325	0.00	0.00
ATOM	1580	1HD1	ILC	102	79.132	37.567	93.284	0.00	0.00
ATOM	1581	2HD1	ILC	102	78.730	36.069	92.514	0.00	0.00
ATOM	1582	3HD1	ILC	102	79.634	37.280	91.589	0.00	0.00
ATOM	1583	C	ILC	102	74.326	38.819	93.824	0.00	0.00
ATOM	1584	O	ILC	102	74.814	39.695	94.542	0.00	0.00
ATOM	1585	OXT	ILC	102	73.241	38.271	93.967	0.00	0.00



ATOM	1586	N	MEN	103	62.510	41.730	94.995	0.00	0.00
ATOM	1587	H1	MEN	103	62.340	41.223	95.852	0.00	0.00
ATOM	1588	H2	MEN	103	63.406	42.196	94.972	0.00	0.00
ATOM	1589	H3	MEN	103	62.446	40.964	94.341	0.00	0.00
ATOM	1590	CA	MEN	103	61.451	42.736	94.704	0.00	0.00
ATOM	1591	HA	MEN	103	60.543	42.134	94.678	0.00	0.00
ATOM	1592	CB	MEN	103	61.358	43.810	95.844	0.00	0.00
ATOM	1593	HB2	MEN	103	61.185	43.242	96.759	0.00	0.00
ATOM	1594	HB3	MEN	103	62.270	44.405	95.883	0.00	0.00
ATOM	1595	CG	MEN	103	60.012	44.594	95.767	0.00	0.00
ATOM	1596	HG2	MEN	103	59.280	43.856	95.440	0.00	0.00
ATOM	1597	HG3	MEN	103	59.714	44.848	96.785	0.00	0.00
ATOM	1598	SD	MEN	103	59.853	45.990	94.591	0.00	0.00
ATOM	1599	CE	MEN	103	60.999	47.283	95.142	0.00	0.00
ATOM	1600	HE1	MEN	103	60.556	48.275	95.048	0.00	0.00
ATOM	1601	HE2	MEN	103	61.137	47.123	96.212	0.00	0.00
ATOM	1602	HE3	MEN	103	61.955	47.151	94.636	0.00	0.00
ATOM	1603	C	MEN	103	61.729	43.386	93.343	0.00	0.00
ATOM	1604	O	MEN	103	62.604	44.260	93.236	0.00	0.00
ATOM	1605	N	ILE	104	60.915	43.019	92.311	0.00	0.00
ATOM	1606	H	ILE	104	60.203	42.308	92.399	0.00	0.00
ATOM	1607	CA	ILE	104	60.925	43.739	91.026	0.00	0.00
ATOM	1608	HA	ILE	104	61.882	44.262	91.028	0.00	0.00
ATOM	1609	CB	ILE	104	60.920	42.906	89.727	0.00	0.00
ATOM	1610	HB	ILE	104	61.410	41.955	89.935	0.00	0.00
ATOM	1611	CG2	ILE	104	59.398	42.615	89.414	0.00	0.00

ATOM	1612	1HG2	ILE	104	58.890	43.509	89.051	0.00	0.00
ATOM	1613	2HG2	ILE	104	59.255	41.927	88.581	0.00	0.00
ATOM	1614	3HG2	ILE	104	58.990	42.070	90.265	0.00	0.00
ATOM	1615	CG1	ILE	104	61.619	43.594	88.526	0.00	0.00
ATOM	1616	2HG1	ILE	104	60.950	44.355	88.124	0.00	0.00
ATOM	1617	3HG1	ILE	104	62.599	43.941	88.855	0.00	0.00
ATOM	1618	CD1	ILE	104	61.903	42.610	87.378	0.00	0.00
ATOM	1619	1HD1	ILE	104	62.324	43.183	86.552	0.00	0.00
ATOM	1620	2HD1	ILE	104	62.511	41.817	87.813	0.00	0.00
ATOM	1621	3HD1	ILE	104	60.908	42.252	87.115	0.00	0.00
ATOM	1622	C	ILE	104	59.800	44.918	91.125	0.00	0.00
ATOM	1623	O	ILE	104	58.640	44.742	91.500	0.00	0.00
ATOM	1624	N	PRO	105	60.166	46.173	90.861	0.00	0.00
ATOM	1625	CD	PRO	105	61.468	46.778	91.050	0.00	0.00
ATOM	1626	HD2	PRO	105	62.026	46.348	91.881	0.00	0.00
ATOM	1627	HD3	PRO	105	62.006	46.688	90.106	0.00	0.00
ATOM	1628	CG	PRO	105	61.202	48.279	91.102	0.00	0.00
ATOM	1629	HG2	PRO	105	61.078	48.701	92.099	0.00	0.00
ATOM	1630	HG3	PRO	105	62.110	48.767	90.748	0.00	0.00
ATOM	1631	CB	PRO	105	60.037	48.449	90.153	0.00	0.00
ATOM	1632	HB2	PRO	105	59.576	49.409	90.387	0.00	0.00
ATOM	1633	HB3	PRO	105	60.391	48.604	89.133	0.00	0.00
ATOM	1634	CA	PRO	105	59.190	47.156	90.352	0.00	0.00
ATOM	1635	HA	PRO	105	58.508	47.372	91.175	0.00	0.00
ATOM	1636	C	PRO	105	58.530	46.663	89.138	0.00	0.00
ATOM	1637	O	PRO	105	59.174	45.896	88.448	0.00	0.00

ATOM	1638	N	GLY	106	57.378	47.217	88.648	0.00	0.00
ATOM	1639	H	GLY	106	56.969	48.002	89.133	0.00	0.00
ATOM	1640	CA	GLY	106	56.719	46.750	87.416	0.00	0.00
ATOM	1641	HA2	GLY	106	55.858	47.361	87.144	0.00	0.00
ATOM	1642	HA3	GLY	106	57.440	46.757	86.599	0.00	0.00
ATOM	1643	C	GLY	106	56.301	45.302	87.408	0.00	0.00
ATOM	1644	O	GLY	106	56.412	44.702	86.359	0.00	0.00
ATOM	1645	N	GLU	107	55.701	44.770	88.452	0.00	0.00
ATOM	1646	H	GLU	107	55.462	45.335	89.254	0.00	0.00
ATOM	1647	CA	GLU	107	55.304	43.335	88.511	0.00	0.00
ATOM	1648	HA	GLU	107	56.058	42.774	87.958	0.00	0.00
ATOM	1649	CB	GLU	107	55.345	42.850	90.014	0.00	0.00
ATOM	1650	HB2	GLU	107	56.277	43.262	90.402	0.00	0.00
ATOM	1651	HB3	GLU	107	54.473	43.287	90.500	0.00	0.00
ATOM	1652	CG	GLU	107	55.390	41.341	90.094	0.00	0.00
ATOM	1653	HG2	GLU	107	54.492	40.913	89.649	0.00	0.00
ATOM	1654	HG3	GLU	107	56.151	40.879	89.466	0.00	0.00
ATOM	1655	CD	GLU	107	55.553	40.724	91.492	0.00	0.00
ATOM	1656	OE1	GLU	107	55.508	39.468	91.636	0.00	0.00
ATOM	1657	OE2	GLU	107	55.937	41.400	92.491	0.00	0.00
ATOM	1658	C	GLU	107	53.975	43.039	87.882	0.00	0.00
ATOM	1659	O	GLU	107	53.053	43.902	87.901	0.00	0.00
ATOM	1660	N	TYR	108	53.772	41.909	87.276	0.00	0.00
ATOM	1661	H	TYR	108	54.515	41.225	87.268	0.00	0.00
ATOM	1662	CA	TYR	108	52.501	41.442	86.739	0.00	0.00
ATOM	1663	HA	TYR	108	51.789	42.250	86.574	0.00	0.00

ATOM	1664	CB	TYR	108	52.706	40.806	85.303	0.00	0.00
ATOM	1665	HB2	TYR	108	53.542	40.111	85.388	0.00	0.00
ATOM	1666	HB3	TYR	108	51.820	40.236	85.022	0.00	0.00
ATOM	1667	CG	TYR	108	53.083	41.611	84.045	0.00	0.00
ATOM	1668	CD1	TYR	108	53.106	40.849	82.839	0.00	0.00
ATOM	1669	HD1	TYR	108	52.898	39.796	82.719	0.00	0.00
ATOM	1670	CE1	TYR	108	53.578	41.470	81.645	0.00	0.00
ATOM	1671	HE1	TYR	108	53.634	40.847	80.764	0.00	0.00
ATOM	1672	CZ	TYR	108	53.866	42.879	81.642	0.00	0.00
ATOM	1673	OH	TYR	108	54.382	43.384	80.495	0.00	0.00
ATOM	1674	HH	TYR	108	54.541	42.686	79.855	0.00	0.00
ATOM	1675	CE2	TYR	108	53.649	43.568	82.848	0.00	0.00
ATOM	1676	HE2	TYR	108	53.674	44.646	82.779	0.00	0.00
ATOM	1677	CD2	TYR	108	53.276	43.008	84.076	0.00	0.00
ATOM	1678	HD2	TYR	108	53.343	43.625	84.960	0.00	0.00
ATOM	1679	C	TYR	108	51.984	40.397	87.690	0.00	0.00
ATOM	1680	O	TYR	108	52.745	39.612	88.226	0.00	0.00
ATOM	1681	N	HIE	109	50.668	40.178	87.724	0.00	0.00
ATOM	1682	H	HIE	109	50.057	40.829	87.252	0.00	0.00
ATOM	1683	CA	HIE	109	49.961	39.039	88.287	0.00	0.00
ATOM	1684	HA	HIE	109	50.721	38.278	88.462	0.00	0.00
ATOM	1685	CB	HIE	109	49.095	39.559	89.464	0.00	0.00
ATOM	1686	HB2	HIE	109	49.645	40.170	90.180	0.00	0.00
ATOM	1687	HB3	HIE	109	48.419	40.316	89.066	0.00	0.00
ATOM	1688	CG	HIE	109	48.404	38.432	90.247	0.00	0.00
ATOM	1689	ND1	HIE	109	47.339	38.669	91.123	0.00	0.00

ATOM	1690	CE1	HIE	109	47.182	37.535	91.873	0.00	0.00
ATOM	1691	HE1	HIE	109	46.480	37.377	92.679	0.00	0.00
ATOM	1692	NE2	HIE	109	48.123	36.617	91.561	0.00	0.00
ATOM	1693	HE2	HIE	109	48.488	35.872	92.138	0.00	0.00
ATOM	1694	CD2	HIE	109	48.882	37.153	90.543	0.00	0.00
ATOM	1695	HD2	HIE	109	49.848	36.761	90.261	0.00	0.00
ATOM	1696	C	HIE	109	49.112	38.515	87.127	0.00	0.00
ATOM	1697	O	HIE	109	48.122	39.032	86.713	0.00	0.00
ATOM	1698	N	VAL	110	49.501	37.334	86.648	0.00	0.00
ATOM	1699	H	VAL	110	50.307	36.866	87.035	0.00	0.00
ATOM	1700	CA	VAL	110	48.844	36.626	85.578	0.00	0.00
ATOM	1701	HA	VAL	110	48.027	37.204	85.146	0.00	0.00
ATOM	1702	CB	VAL	110	49.879	36.484	84.428	0.00	0.00
ATOM	1703	HB	VAL	110	50.587	35.684	84.646	0.00	0.00
ATOM	1704	CG1	VAL	110	49.081	36.121	83.183	0.00	0.00
ATOM	1705	1HG1	VAL	110	48.849	35.057	83.243	0.00	0.00
ATOM	1706	2HG1	VAL	110	48.116	36.620	83.092	0.00	0.00
ATOM	1707	3HG1	VAL	110	49.662	36.182	82.263	0.00	0.00
ATOM	1708	CG2	VAL	110	50.706	37.724	84.121	0.00	0.00
ATOM	1709	1HG2	VAL	110	51.203	37.507	83.176	0.00	0.00
ATOM	1710	2HG2	VAL	110	50.062	38.594	83.999	0.00	0.00
ATOM	1711	3HG2	VAL	110	51.409	37.849	84.945	0.00	0.00
ATOM	1712	C	VAL	110	48.369	35.252	86.075	0.00	0.00
ATOM	1713	O	VAL	110	49.248	34.432	86.443	0.00	0.00
ATOM	1714	N	LYS	111	47.094	34.978	86.162	0.00	0.00
ATOM	1715	H	LYS	111	46.464	35.634	85.722	0.00	0.00

ATOM	1716	CA	LYS	111	46.521	33.741	86.572	0.00	0.00
ATOM	1717	HA	LYS	111	46.898	33.382	87.529	0.00	0.00
ATOM	1718	CB	LYS	111	44.998	33.908	86.776	0.00	0.00
ATOM	1719	HB2	LYS	111	44.625	34.439	85.900	0.00	0.00
ATOM	1720	HB3	LYS	111	44.546	32.936	86.976	0.00	0.00
ATOM	1721	CG	LYS	111	44.732	34.761	88.014	0.00	0.00
ATOM	1722	HG2	LYS	111	45.374	35.631	88.155	0.00	0.00
ATOM	1723	HG3	LYS	111	43.724	35.175	88.005	0.00	0.00
ATOM	1724	CD	LYS	111	44.701	34.021	89.347	0.00	0.00
ATOM	1725	HD2	LYS	111	43.780	33.465	89.522	0.00	0.00
ATOM	1726	HD3	LYS	111	45.619	33.446	89.465	0.00	0.00
ATOM	1727	CE	LYS	111	44.880	35.037	90.470	0.00	0.00
ATOM	1728	HE2	LYS	111	45.188	34.406	91.303	0.00	0.00
ATOM	1729	HE3	LYS	111	45.638	35.780	90.223	0.00	0.00
ATOM	1730	NZ	LYS	111	43.677	35.860	90.627	0.00	0.00
ATOM	1731	HZ1	LYS	111	43.682	36.307	91.533	0.00	0.00
ATOM	1732	HZ2	LYS	111	43.647	36.709	90.080	0.00	0.00
ATOM	1733	HZ3	LYS	111	42.766	35.496	90.388	0.00	0.00
ATOM	1734	C	LYS	111	46.810	32.612	85.555	0.00	0.00
ATOM	1735	O	LYS	111	47.081	32.770	84.348	0.00	0.00
ATOM	1736	N	PRO	112	46.590	31.337	85.973	0.00	0.00
ATOM	1737	CD	PRO	112	46.577	30.933	87.360	0.00	0.00
ATOM	1738	HD2	PRO	112	47.371	31.292	88.015	0.00	0.00
ATOM	1739	HD3	PRO	112	45.522	30.994	87.629	0.00	0.00
ATOM	1740	CG	PRO	112	46.743	29.421	87.346	0.00	0.00
ATOM	1741	HG2	PRO	112	47.791	29.124	87.351	0.00	0.00

ATOM	1742	HG3	PRO	112	46.272	28.962	88.215	0.00	0.00
ATOM	1743	CB	PRO	112	46.017	28.993	86.059	0.00	0.00
ATOM	1744	HB2	PRO	112	46.453	28.084	85.646	0.00	0.00
ATOM	1745	HB3	PRO	112	44.972	28.687	86.109	0.00	0.00
ATOM	1746	CA	PRO	112	46.264	30.165	85.121	0.00	0.00
ATOM	1747	HA	PRO	112	47.089	29.955	84.441	0.00	0.00
ATOM	1748	C	PRO	112	45.096	30.431	84.212	0.00	0.00
ATOM	1749	O	PRO	112	44.112	31.088	84.579	0.00	0.00
ATOM	1750	N	GLY	113	45.154	29.809	83.065	0.00	0.00
ATOM	1751	H	GLY	113	45.920	29.164	82.934	0.00	0.00
ATOM	1752	CA	GLY	113	44.100	29.770	82.082	0.00	0.00
ATOM	1753	HA2	GLY	113	43.531	28.860	82.272	0.00	0.00
ATOM	1754	HA3	GLY	113	43.609	30.740	82.166	0.00	0.00
ATOM	1755	C	GLY	113	44.470	29.669	80.627	0.00	0.00
ATOM	1756	O	GLY	113	45.671	29.792	80.267	0.00	0.00
ATOM	1757	N	GLN	114	43.468	29.465	79.694	0.00	0.00
ATOM	1758	H	GLN	114	42.567	29.684	80.095	0.00	0.00
ATOM	1759	CA	GLN	114	43.659	29.130	78.321	0.00	0.00
ATOM	1760	HA	GLN	114	44.715	29.322	78.134	0.00	0.00
ATOM	1761	CB	GLN	114	43.459	27.605	77.900	0.00	0.00
ATOM	1762	HB2	GLN	114	42.400	27.352	77.964	0.00	0.00
ATOM	1763	HB3	GLN	114	43.880	27.495	76.900	0.00	0.00
ATOM	1764	CG	GLN	114	44.142	26.486	78.791	0.00	0.00
ATOM	1765	HG2	GLN	114	43.696	26.528	79.785	0.00	0.00
ATOM	1766	HG3	GLN	114	44.123	25.475	78.384	0.00	0.00
ATOM	1767	CD	GLN	114	45.633	26.710	79.030	0.00	0.00

ATOM	1768	OE1	GLN	114	46.183	26.668	80.169	0.00	0.00
ATOM	1769	NE2	GLN	114	46.284	26.957	77.939	0.00	0.00
ATOM	1770	1HE2	GLN	114	47.285	26.980	78.075	0.00	0.00
ATOM	1771	2HE2	GLN	114	45.866	27.030	77.023	0.00	0.00
ATOM	1772	C	GLN	114	42.844	29.996	77.386	0.00	0.00
ATOM	1773	O	GLN	114	41.698	30.255	77.607	0.00	0.00
ATOM	1774	N	ILE	115	43.504	30.443	76.371	0.00	0.00
ATOM	1775	H	ILE	115	44.452	30.100	76.311	0.00	0.00
ATOM	1776	CA	ILE	115	43.004	31.323	75.328	0.00	0.00
ATOM	1777	HA	ILE	115	41.964	31.493	75.606	0.00	0.00
ATOM	1778	CB	ILE	115	43.962	32.607	75.365	0.00	0.00
ATOM	1779	HB	ILE	115	44.985	32.245	75.261	0.00	0.00
ATOM	1780	CG2	ILE	115	43.775	33.571	74.137	0.00	0.00
ATOM	1781	1HG2	ILE	115	42.697	33.730	74.116	0.00	0.00
ATOM	1782	2HG2	ILE	115	44.347	34.481	74.321	0.00	0.00
ATOM	1783	3HG2	ILE	115	44.057	33.110	73.191	0.00	0.00
ATOM	1784	CG1	ILE	115	43.965	33.352	76.717	0.00	0.00
ATOM	1785	2HG1	ILE	115	42.955	33.724	76.892	0.00	0.00
ATOM	1786	3HG1	ILE	115	44.165	32.555	77.434	0.00	0.00
ATOM	1787	CD1	ILE	115	44.783	34.625	76.937	0.00	0.00
ATOM	1788	1HD1	ILE	115	45.847	34.467	76.757	0.00	0.00
ATOM	1789	2HD1	ILE	115	44.431	35.392	76.248	0.00	0.00
ATOM	1790	3HD1	ILE	115	44.595	34.993	77.946	0.00	0.00
ATOM	1791	C	ILE	115	43.069	30.666	73.913	0.00	0.00
ATOM	1792	O	ILE	115	44.155	30.488	73.366	0.00	0.00
ATOM	1793	N	ALA	116	41.907	30.175	73.394	0.00	0.00



ATOM	1794	H	ALA	116	41.103	30.418	73.955	0.00	0.00
ATOM	1795	CA	ALA	116	41.837	29.515	72.116	0.00	0.00
ATOM	1796	HA	ALA	116	42.777	28.982	71.977	0.00	0.00
ATOM	1797	CB	ALA	116	40.739	28.432	72.048	0.00	0.00
ATOM	1798	HB1	ALA	116	40.869	27.674	71.275	0.00	0.00
ATOM	1799	HB2	ALA	116	40.756	27.870	72.982	0.00	0.00
ATOM	1800	HB3	ALA	116	39.748	28.848	71.868	0.00	0.00
ATOM	1801	C	ALA	116	41.731	30.565	71.020	0.00	0.00
ATOM	1802	O	ALA	116	40.994	31.594	71.080	0.00	0.00
ATOM	1803	N	LEU	117	42.543	30.346	69.950	0.00	0.00
ATOM	1804	H	LEU	117	43.167	29.552	69.974	0.00	0.00
ATOM	1805	CA	LEU	117	42.815	31.422	69.012	0.00	0.00
ATOM	1806	HA	LEU	117	42.521	32.411	69.362	0.00	0.00
ATOM	1807	CB	LEU	117	44.293	31.605	68.619	0.00	0.00
ATOM	1808	HB2	LEU	117	44.542	30.660	68.136	0.00	0.00
ATOM	1809	HB3	LEU	117	44.473	32.384	67.878	0.00	0.00
ATOM	1810	CG	LEU	117	45.229	31.910	69.824	0.00	0.00
ATOM	1811	HG	LEU	117	45.084	31.121	70.562	0.00	0.00
ATOM	1812	CD1	LEU	117	46.600	32.054	69.161	0.00	0.00
ATOM	1813	1HD1	LEU	117	47.387	32.114	69.913	0.00	0.00
ATOM	1814	2HD1	LEU	117	46.821	31.291	68.415	0.00	0.00
ATOM	1815	3HD1	LEU	117	46.588	33.041	68.697	0.00	0.00
ATOM	1816	CD2	LEU	117	44.874	33.081	70.660	0.00	0.00
ATOM	1817	1HD2	LEU	117	43.835	32.940	70.959	0.00	0.00
ATOM	1818	2HD2	LEU	117	45.546	33.214	71.508	0.00	0.00
ATOM	1819	3HD2	LEU	117	44.948	34.027	70.126	0.00	0.00

ATOM	1820	C	LEU	117	42.050	31.189	67.702	0.00	0.00
ATOM	1821	O	LEU	117	41.812	30.080	67.218	0.00	0.00
ATOM	1822	N	ASN	118	41.648	32.337	67.097	0.00	0.00
ATOM	1823	H	ASN	118	41.785	33.237	67.535	0.00	0.00
ATOM	1824	CA	ASN	118	40.944	32.440	65.854	0.00	0.00
ATOM	1825	HA	ASN	118	40.295	33.275	66.118	0.00	0.00
ATOM	1826	CB	ASN	118	41.876	32.787	64.631	0.00	0.00
ATOM	1827	HB2	ASN	118	41.346	32.900	63.686	0.00	0.00
ATOM	1828	HB3	ASN	118	42.280	33.776	64.848	0.00	0.00
ATOM	1829	CG	ASN	118	43.006	31.803	64.427	0.00	0.00
ATOM	1830	OD1	ASN	118	44.184	32.140	64.513	0.00	0.00
ATOM	1831	ND2	ASN	118	42.727	30.550	64.289	0.00	0.00
ATOM	1832	1HD2	ASN	118	43.413	29.840	64.501	0.00	0.00
ATOM	1833	2HD2	ASN	118	41.737	30.349	64.313	0.00	0.00
ATOM	1834	C	ASN	118	39.931	31.319	65.567	0.00	0.00
ATOM	1835	O	ASN	118	40.024	30.551	64.586	0.00	0.00
ATOM	1836	N	THR	119	39.037	31.093	66.520	0.00	0.00
ATOM	1837	H	THR	119	38.937	31.833	67.201	0.00	0.00
ATOM	1838	CA	THR	119	38.136	29.934	66.578	0.00	0.00
ATOM	1839	HA	THR	119	38.650	29.006	66.323	0.00	0.00
ATOM	1840	CB	THR	119	37.638	29.594	68.016	0.00	0.00
ATOM	1841	HB	THR	119	36.825	28.876	67.912	0.00	0.00
ATOM	1842	CG2	THR	119	38.791	28.851	68.742	0.00	0.00
ATOM	1843	1HG2	THR	119	38.772	27.798	68.461	0.00	0.00
ATOM	1844	2HG2	THR	119	39.785	29.229	68.505	0.00	0.00
ATOM	1845	3HG2	THR	119	38.594	28.911	69.812	0.00	0.00

ATOM	1846	OG1	THR	119	37.155	30.743	68.574	0.00	0.00
ATOM	1847	HG1	THR	119	37.956	31.187	68.862	0.00	0.00
ATOM	1848	C	THR	119	36.906	30.008	65.713	0.00	0.00
ATOM	1849	O	THR	119	36.366	31.078	65.438	0.00	0.00
ATOM	1850	N	GLY	120	36.220	28.906	65.345	0.00	0.00
ATOM	1851	H	GLY	120	36.644	28.003	65.507	0.00	0.00
ATOM	1852	CA	GLY	120	34.984	28.806	64.610	0.00	0.00
ATOM	1853	HA2	GLY	120	34.623	27.780	64.672	0.00	0.00
ATOM	1854	HA3	GLY	120	34.226	29.413	65.106	0.00	0.00
ATOM	1855	C	GLY	120	35.147	29.171	63.131	0.00	0.00
ATOM	1856	O	GLY	120	34.236	28.866	62.297	0.00	0.00
ATOM	1857	N	ARG	121	36.338	29.674	62.731	0.00	0.00
ATOM	1858	H	ARG	121	37.041	29.840	63.437	0.00	0.00
ATOM	1859	CA	ARG	121	36.712	30.085	61.346	0.00	0.00
ATOM	1860	HA	ARG	121	35.813	30.418	60.827	0.00	0.00
ATOM	1861	CB	ARG	121	37.719	31.229	61.368	0.00	0.00
ATOM	1862	HB2	ARG	121	38.542	30.860	61.981	0.00	0.00
ATOM	1863	HB3	ARG	121	38.122	31.373	60.365	0.00	0.00
ATOM	1864	CG	ARG	121	37.201	32.574	61.931	0.00	0.00
ATOM	1865	HG2	ARG	121	36.719	33.202	61.181	0.00	0.00
ATOM	1866	HG3	ARG	121	36.474	32.338	62.708	0.00	0.00
ATOM	1867	CD	ARG	121	38.372	33.443	62.404	0.00	0.00
ATOM	1868	HD2	ARG	121	37.929	34.307	62.898	0.00	0.00
ATOM	1869	HD3	ARG	121	39.042	32.910	63.078	0.00	0.00
ATOM	1870	NE	ARG	121	39.176	33.695	61.186	0.00	0.00
ATOM	1871	HE	ARG	121	39.147	33.107	60.366	0.00	0.00

ATOM	1872	CZ	ARG	121	40.171	34.598	61.135	0.00	0.00
ATOM	1873	NH1	ARG	121	40.472	35.387	62.156	0.00	0.00
ATOM	1874	1HH1	ARG	121	41.339	35.904	62.128	0.00	0.00
ATOM	1875	2HH1	ARG	121	39.876	35.582	62.948	0.00	0.00
ATOM	1876	NH2	ARG	121	40.977	34.739	60.146	0.00	0.00
ATOM	1877	1HH2	ARG	121	41.730	35.410	60.198	0.00	0.00
ATOM	1878	2HH2	ARG	121	40.937	34.062	59.398	0.00	0.00
ATOM	1879	C	ARG	121	37.351	28.864	60.669	0.00	0.00
ATOM	1880	O	ARG	121	38.018	28.044	61.281	0.00	0.00
ATOM	1881	N	ALA	122	37.118	28.771	59.393	0.00	0.00
ATOM	1882	H	ALA	122	36.597	29.440	58.844	0.00	0.00
ATOM	1883	CA	ALA	122	37.430	27.625	58.622	0.00	0.00
ATOM	1884	HA	ALA	122	36.945	26.750	59.055	0.00	0.00
ATOM	1885	CB	ALA	122	36.946	27.872	57.173	0.00	0.00
ATOM	1886	HB1	ALA	122	35.869	27.711	57.133	0.00	0.00
ATOM	1887	HB2	ALA	122	37.303	28.818	56.764	0.00	0.00
ATOM	1888	HB3	ALA	122	37.266	27.046	56.538	0.00	0.00
ATOM	1889	C	ALA	122	38.906	27.299	58.682	0.00	0.00
ATOM	1890	O	ALA	122	39.795	28.166	58.547	0.00	0.00
ATOM	1891	N	THR	123	39.199	26.002	58.810	0.00	0.00
ATOM	1892	H	THR	123	38.460	25.314	58.770	0.00	0.00
ATOM	1893	CA	THR	123	40.586	25.480	58.916	0.00	0.00
ATOM	1894	HA	THR	123	41.256	26.281	58.606	0.00	0.00
ATOM	1895	CB	THR	123	40.914	24.995	60.347	0.00	0.00
ATOM	1896	HB	THR	123	41.902	24.536	60.310	0.00	0.00
ATOM	1897	CG2	THR	123	40.932	26.205	61.273	0.00	0.00

ATOM	1898	1HG2	THR	123	40.984	25.910	62.321	0.00	0.00
ATOM	1899	2HG2	THR	123	41.765	26.812	60.919	0.00	0.00
ATOM	1900	3HG2	THR	123	40.105	26.887	61.075	0.00	0.00
ATOM	1901	OG1	THR	123	40.071	24.030	60.884	0.00	0.00
ATOM	1902	HG1	THR	123	39.170	24.247	60.633	0.00	0.00
ATOM	1903	C	THR	123	40.849	24.379	57.890	0.00	0.00
ATOM	1904	O	THR	123	39.923	23.867	57.283	0.00	0.00
ATOM	1905	N	CYS	124	42.152	24.057	57.683	0.00	0.00
ATOM	1906	H	CYS	124	42.877	24.539	58.196	0.00	0.00
ATOM	1907	CA	CYS	124	42.625	22.860	56.934	0.00	0.00
ATOM	1908	HA	CYS	124	41.958	22.031	57.174	0.00	0.00
ATOM	1909	CB	CYS	124	42.630	23.111	55.438	0.00	0.00
ATOM	1910	HB2	CYS	124	42.946	22.253	54.845	0.00	0.00
ATOM	1911	HB3	CYS	124	41.566	23.129	55.205	0.00	0.00
ATOM	1912	SG	CYS	124	43.694	24.382	54.779	0.00	0.00
ATOM	1913	HG	CYS	124	43.275	24.322	53.512	0.00	0.00
ATOM	1914	C	CYS	124	43.974	22.336	57.429	0.00	0.00
ATOM	1915	O	CYS	124	44.655	22.979	58.227	0.00	0.00
ATOM	1916	N	ARG	125	44.361	21.099	57.062	0.00	0.00
ATOM	1917	H	ARG	125	43.780	20.602	56.403	0.00	0.00
ATOM	1918	CA	ARG	125	45.603	20.495	57.593	0.00	0.00
ATOM	1919	HA	ARG	125	46.329	21.195	58.006	0.00	0.00
ATOM	1920	CB	ARG	125	45.116	19.416	58.658	0.00	0.00
ATOM	1921	HB2	ARG	125	44.509	19.876	59.438	0.00	0.00
ATOM	1922	HB3	ARG	125	44.400	18.799	58.116	0.00	0.00
ATOM	1923	CG	ARG	125	46.171	18.538	59.322	0.00	0.00

ATOM	1924	HG2	ARG	125	46.925	19.222	59.709	0.00	0.00
ATOM	1925	HG3	ARG	125	46.625	17.819	58.640	0.00	0.00
ATOM	1926	CD	ARG	125	45.558	17.937	60.649	0.00	0.00
ATOM	1927	HD2	ARG	125	44.637	17.510	60.253	0.00	0.00
ATOM	1928	HD3	ARG	125	46.038	17.038	61.036	0.00	0.00
ATOM	1929	NE	ARG	125	45.341	18.932	61.720	0.00	0.00
ATOM	1930	HE	ARG	125	44.433	19.374	61.729	0.00	0.00
ATOM	1931	CZ	ARG	125	46.088	19.167	62.800	0.00	0.00
ATOM	1932	NH1	ARG	125	47.295	18.696	63.055	0.00	0.00
ATOM	1933	1HH1	ARG	125	47.872	19.112	63.772	0.00	0.00
ATOM	1934	2HH1	ARG	125	47.666	17.930	62.511	0.00	0.00
ATOM	1935	NH2	ARG	125	45.729	19.987	63.658	0.00	0.00
ATOM	1936	1HH2	ARG	125	46.379	20.242	64.388	0.00	0.00
ATOM	1937	2HH2	ARG	125	44.787	20.346	63.713	0.00	0.00
ATOM	1938	C	ARG	125	46.353	19.768	56.403	0.00	0.00
ATOM	1939	O	ARG	125	45.661	19.081	55.612	0.00	0.00
ATOM	1940	N	VAL	126	47.677	19.945	56.282	0.00	0.00
ATOM	1941	H	VAL	126	48.124	20.433	57.045	0.00	0.00
ATOM	1942	CA	VAL	126	48.472	19.371	55.212	0.00	0.00
ATOM	1943	HA	VAL	126	47.986	18.461	54.859	0.00	0.00
ATOM	1944	CB	VAL	126	48.596	20.345	54.038	0.00	0.00
ATOM	1945	HB	VAL	126	49.261	19.753	53.410	0.00	0.00
ATOM	1946	CG1	VAL	126	47.308	20.477	53.248	0.00	0.00
ATOM	1947	1HG1	VAL	126	47.382	21.158	52.400	0.00	0.00
ATOM	1948	2HG1	VAL	126	47.017	19.550	52.754	0.00	0.00
ATOM	1949	3HG1	VAL	126	46.449	20.845	53.809	0.00	0.00

ATOM	1950	CG2	VAL	126	49.159	21.724	54.356	0.00	0.00
ATOM	1951	1HG2	VAL	126	48.548	22.326	55.030	0.00	0.00
ATOM	1952	2HG2	VAL	126	50.054	21.527	54.947	0.00	0.00
ATOM	1953	3HG2	VAL	126	49.264	22.304	53.439	0.00	0.00
ATOM	1954	C	VAL	126	49.841	18.932	55.773	0.00	0.00
ATOM	1955	O	VAL	126	50.307	19.565	56.729	0.00	0.00
ATOM	1956	N	VAL	127	50.378	17.906	55.118	0.00	0.00
ATOM	1957	H	VAL	127	50.037	17.635	54.207	0.00	0.00
ATOM	1958	CA	VAL	127	51.686	17.297	55.473	0.00	0.00
ATOM	1959	HA	VAL	127	51.883	17.585	56.506	0.00	0.00
ATOM	1960	CB	VAL	127	51.663	15.706	55.247	0.00	0.00
ATOM	1961	HB	VAL	127	51.265	15.390	54.282	0.00	0.00
ATOM	1962	CG1	VAL	127	53.054	14.944	55.391	0.00	0.00
ATOM	1963	1HG1	VAL	127	53.751	15.106	54.569	0.00	0.00
ATOM	1964	2HG1	VAL	127	53.454	15.276	56.350	0.00	0.00
ATOM	1965	3HG1	VAL	127	52.715	13.910	55.452	0.00	0.00
ATOM	1966	CG2	VAL	127	50.701	15.148	56.273	0.00	0.00
ATOM	1967	1HG2	VAL	127	49.687	15.516	56.121	0.00	0.00
ATOM	1968	2HG2	VAL	127	50.722	14.058	56.256	0.00	0.00
ATOM	1969	3HG2	VAL	127	51.002	15.591	57.222	0.00	0.00
ATOM	1970	C	VAL	127	52.710	17.992	54.491	0.00	0.00
ATOM	1971	O	VAL	127	52.739	17.808	53.286	0.00	0.00
ATOM	1972	N	VAL	128	53.716	18.681	55.091	0.00	0.00
ATOM	1973	H	VAL	128	53.812	18.666	56.096	0.00	0.00
ATOM	1974	CA	VAL	128	54.783	19.304	54.379	0.00	0.00
ATOM	1975	HA	VAL	128	54.558	19.553	53.342	0.00	0.00

ATOM	1976	CB	VAL	128	55.158	20.568	55.094	0.00	0.00
ATOM	1977	HB	VAL	128	55.397	20.336	56.132	0.00	0.00
ATOM	1978	CG1	VAL	128	56.417	21.088	54.405	0.00	0.00
ATOM	1979	1HG1	VAL	128	56.379	22.155	54.624	0.00	0.00
ATOM	1980	2HG1	VAL	128	57.286	20.701	54.938	0.00	0.00
ATOM	1981	3HG1	VAL	128	56.357	20.857	53.341	0.00	0.00
ATOM	1982	CG2	VAL	128	53.938	21.568	54.835	0.00	0.00
ATOM	1983	1HG2	VAL	128	53.106	21.135	55.391	0.00	0.00
ATOM	1984	2HG2	VAL	128	54.242	22.513	55.285	0.00	0.00
ATOM	1985	3HG2	VAL	128	53.666	21.598	53.780	0.00	0.00
ATOM	1986	C	VAL	128	56.004	18.395	54.363	0.00	0.00
ATOM	1987	O	VAL	128	56.565	18.130	55.364	0.00	0.00
ATOM	1988	N	GLU	129	56.597	18.088	53.260	0.00	0.00
ATOM	1989	H	GLU	129	56.014	18.207	52.444	0.00	0.00
ATOM	1990	CA	GLU	129	57.939	17.474	53.079	0.00	0.00
ATOM	1991	HA	GLU	129	58.251	17.150	54.072	0.00	0.00
ATOM	1992	CB	GLU	129	57.949	16.196	52.253	0.00	0.00
ATOM	1993	HB2	GLU	129	57.073	15.588	52.478	0.00	0.00
ATOM	1994	HB3	GLU	129	57.816	16.482	51.209	0.00	0.00
ATOM	1995	CG	GLU	129	59.116	15.266	52.488	0.00	0.00
ATOM	1996	HG2	GLU	129	60.054	15.807	52.614	0.00	0.00
ATOM	1997	HG3	GLU	129	58.952	14.619	53.350	0.00	0.00
ATOM	1998	CD	GLU	129	59.266	14.299	51.355	0.00	0.00
ATOM	1999	OE1	GLU	129	58.271	13.721	50.912	0.00	0.00
ATOM	2000	OE2	GLU	129	60.431	13.981	51.072	0.00	0.00
ATOM	2001	C	GLU	129	58.894	18.481	52.472	0.00	0.00



ATOM	2002	O	GLU	129	58.510	18.905	51.398	0.00	0.00
ATOM	2003	N	ASN	130	60.110	18.825	52.964	0.00	0.00
ATOM	2004	H	ASN	130	60.480	18.332	53.763	0.00	0.00
ATOM	2005	CA	ASN	130	61.044	19.777	52.389	0.00	0.00
ATOM	2006	HA	ASN	130	60.435	20.422	51.756	0.00	0.00
ATOM	2007	CB	ASN	130	61.648	20.639	53.582	0.00	0.00
ATOM	2008	HB2	ASN	130	60.817	20.915	54.232	0.00	0.00
ATOM	2009	HB3	ASN	130	62.411	20.031	54.067	0.00	0.00
ATOM	2010	CG	ASN	130	62.403	21.944	53.132	0.00	0.00
ATOM	2011	OD1	ASN	130	62.462	22.196	51.969	0.00	0.00
ATOM	2012	ND2	ASN	130	63.058	22.710	53.992	0.00	0.00
ATOM	2013	1HD2	ASN	130	63.632	23.465	53.646	0.00	0.00
ATOM	2014	2HD2	ASN	130	63.024	22.544	54.988	0.00	0.00
ATOM	2015	C	ASN	130	62.033	19.034	51.530	0.00	0.00
ATOM	2016	O	ASN	130	62.801	18.124	52.029	0.00	0.00
ATOM	2017	N	HID	131	62.073	19.458	50.239	0.00	0.00
ATOM	2018	H	HID	131	61.454	20.217	49.991	0.00	0.00
ATOM	2019	CA	HID	131	62.762	18.837	49.101	0.00	0.00
ATOM	2020	HA	HID	131	62.823	17.756	49.230	0.00	0.00
ATOM	2021	CB	HID	131	61.998	19.294	47.829	0.00	0.00
ATOM	2022	HB2	HID	131	60.946	19.020	47.905	0.00	0.00
ATOM	2023	HB3	HID	131	62.191	20.366	47.787	0.00	0.00
ATOM	2024	CG	HID	131	62.447	18.660	46.505	0.00	0.00
ATOM	2025	ND1	HID	131	63.016	19.263	45.371	0.00	0.00
ATOM	2026	HD1	HID	131	63.208	20.227	45.140	0.00	0.00
ATOM	2027	CE1	HID	131	63.281	18.330	44.453	0.00	0.00

ATOM	2028	HE1	HID	131	63.791	18.589	43.537	0.00	0.00
ATOM	2029	NE2	HID	131	63.037	17.113	44.984	0.00	0.00
ATOM	2030	CD2	HID	131	62.429	17.314	46.258	0.00	0.00
ATOM	2031	HD2	HID	131	62.095	16.556	46.951	0.00	0.00
ATOM	2032	C	HID	131	64.224	19.193	49.051	0.00	0.00
ATOM	2033	O	HID	131	64.963	18.409	48.617	0.00	0.00
ATOM	2034	N	GLY	132	64.630	20.376	49.434	0.00	0.00
ATOM	2035	H	GLY	132	63.874	21.018	49.622	0.00	0.00
ATOM	2036	CA	GLY	132	65.901	21.058	49.465	0.00	0.00
ATOM	2037	HA2	GLY	132	66.325	20.895	48.474	0.00	0.00
ATOM	2038	HA3	GLY	132	65.699	22.125	49.566	0.00	0.00
ATOM	2039	C	GLY	132	66.911	20.775	50.592	0.00	0.00
ATOM	2040	O	GLY	132	66.689	19.872	51.404	0.00	0.00
ATOM	2041	N	ASP	133	67.920	21.616	50.665	0.00	0.00
ATOM	2042	H	ASP	133	68.082	22.300	49.940	0.00	0.00
ATOM	2043	CA	ASP	133	69.198	21.278	51.387	0.00	0.00
ATOM	2044	HA	ASP	133	69.045	20.288	51.817	0.00	0.00
ATOM	2045	CB	ASP	133	70.406	21.241	50.476	0.00	0.00
ATOM	2046	HB2	ASP	133	71.296	20.854	50.973	0.00	0.00
ATOM	2047	HB3	ASP	133	70.095	20.499	49.740	0.00	0.00
ATOM	2048	CG	ASP	133	70.780	22.619	49.951	0.00	0.00
ATOM	2049	OD1	ASP	133	69.880	23.462	49.758	0.00	0.00
ATOM	2050	OD2	ASP	133	71.959	22.938	49.700	0.00	0.00
ATOM	2051	C	ASP	133	69.513	22.194	52.601	0.00	0.00
ATOM	2052	O	ASP	133	70.487	22.085	53.352	0.00	0.00
ATOM	2053	N	ARG	134	68.658	23.189	52.830	0.00	0.00

ATOM	2054	H	ARG	134	67.889	23.118	52.178	0.00	0.00
ATOM	2055	CA	ARG	134	68.775	24.305	53.779	0.00	0.00
ATOM	2056	HA	ARG	134	69.445	23.970	54.571	0.00	0.00
ATOM	2057	CB	ARG	134	69.391	25.495	53.040	0.00	0.00
ATOM	2058	HB2	ARG	134	69.710	26.213	53.796	0.00	0.00
ATOM	2059	HB3	ARG	134	70.357	25.185	52.642	0.00	0.00
ATOM	2060	CG	ARG	134	68.536	26.234	51.970	0.00	0.00
ATOM	2061	HG2	ARG	134	68.073	25.464	51.352	0.00	0.00
ATOM	2062	HG3	ARG	134	67.726	26.811	52.415	0.00	0.00
ATOM	2063	CD	ARG	134	69.501	27.105	51.093	0.00	0.00
ATOM	2064	HD2	ARG	134	68.836	27.770	50.541	0.00	0.00
ATOM	2065	HD3	ARG	134	70.048	27.707	51.818	0.00	0.00
ATOM	2066	NE	ARG	134	70.263	26.225	50.161	0.00	0.00
ATOM	2067	HE	ARG	134	70.143	25.229	50.276	0.00	0.00
ATOM	2068	CZ	ARG	134	71.040	26.573	49.221	0.00	0.00
ATOM	2069	NH1	ARG	134	71.190	27.820	48.928	0.00	0.00
ATOM	2070	1HH1	ARG	134	71.756	28.163	48.165	0.00	0.00
ATOM	2071	2HH1	ARG	134	70.813	28.525	49.545	0.00	0.00
ATOM	2072	NH2	ARG	134	71.653	25.722	48.441	0.00	0.00
ATOM	2073	1HH2	ARG	134	72.183	26.053	47.648	0.00	0.00
ATOM	2074	2HH2	ARG	134	71.546	24.721	48.513	0.00	0.00
ATOM	2075	C	ARG	134	67.415	24.715	54.409	0.00	0.00
ATOM	2076	O	ARG	134	66.351	24.308	53.917	0.00	0.00
ATOM	2077	N	PRO	135	67.362	25.401	55.547	0.00	0.00
ATOM	2078	CD	PRO	135	68.484	25.894	56.334	0.00	0.00
ATOM	2079	HD2	PRO	135	69.075	25.070	56.732	0.00	0.00

ATOM	2080	HD3 PRO	135	69.169	26.494	55.735	0.00	0.00
ATOM	2081	CG PRO	135	67.842	26.751	57.407	0.00	0.00
ATOM	2082	HG2 PRO	135	68.490	26.801	58.282	0.00	0.00
ATOM	2083	HG3 PRO	135	67.666	27.743	56.991	0.00	0.00
ATOM	2084	CB PRO	135	66.538	26.046	57.615	0.00	0.00
ATOM	2085	HB2 PRO	135	66.622	25.213	58.313	0.00	0.00
ATOM	2086	HB3 PRO	135	65.779	26.620	58.146	0.00	0.00
ATOM	2087	CA PRO	135	66.129	25.651	56.244	0.00	0.00
ATOM	2088	HA PRO	135	65.568	24.721	56.341	0.00	0.00
ATOM	2089	C PRO	135	65.236	26.732	55.695	0.00	0.00
ATOM	2090	O PRO	135	65.669	27.746	55.106	0.00	0.00
ATOM	2091	N ILE	136	63.923	26.465	55.781	0.00	0.00
ATOM	2092	H ILE	136	63.663	25.628	56.283	0.00	0.00
ATOM	2093	CA ILE	136	62.858	27.418	55.396	0.00	0.00
ATOM	2094	HA ILE	136	63.259	28.386	55.092	0.00	0.00
ATOM	2095	CB ILE	136	62.050	26.844	54.252	0.00	0.00
ATOM	2096	HB ILE	136	61.436	25.982	54.512	0.00	0.00
ATOM	2097	CG2 ILE	136	61.005	27.903	53.924	0.00	0.00
ATOM	2098	1HG2 ILE	136	60.475	27.796	52.978	0.00	0.00
ATOM	2099	2HG2 ILE	136	60.307	28.090	54.741	0.00	0.00
ATOM	2100	3HG2 ILE	136	61.500	28.854	53.730	0.00	0.00
ATOM	2101	CG1 ILE	136	62.943	26.495	53.032	0.00	0.00
ATOM	2102	2HG1 ILE	136	63.227	27.379	52.460	0.00	0.00
ATOM	2103	3HG1 ILE	136	63.826	25.967	53.389	0.00	0.00
ATOM	2104	CD1 ILE	136	62.110	25.567	52.135	0.00	0.00
ATOM	2105	1HD1 ILE	136	61.755	24.643	52.592	0.00	0.00

ATOM	2106	2HD1	ILE	136	61.257	26.090	51.702	0.00	0.00
ATOM	2107	3HD1	ILE	136	62.594	25.243	51.213	0.00	0.00
ATOM	2108	C	ILE	136	62.038	27.686	56.647	0.00	0.00
ATOM	2109	O	ILE	136	61.817	26.712	57.389	0.00	0.00
ATOM	2110	N	GLN	137	61.618	28.981	56.778	0.00	0.00
ATOM	2111	H	GLN	137	61.853	29.610	56.024	0.00	0.00
ATOM	2112	CA	GLN	137	60.657	29.622	57.711	0.00	0.00
ATOM	2113	HA	GLN	137	60.280	28.876	58.410	0.00	0.00
ATOM	2114	CB	GLN	137	61.310	30.745	58.586	0.00	0.00
ATOM	2115	HB2	GLN	137	62.326	30.505	58.900	0.00	0.00
ATOM	2116	HB3	GLN	137	61.444	31.694	58.068	0.00	0.00
ATOM	2117	CG	GLN	137	60.472	31.177	59.823	0.00	0.00
ATOM	2118	HG2	GLN	137	59.581	31.709	59.490	0.00	0.00
ATOM	2119	HG3	GLN	137	60.207	30.276	60.377	0.00	0.00
ATOM	2120	CD	GLN	137	61.246	32.037	60.812	0.00	0.00
ATOM	2121	OE1	GLN	137	62.068	31.562	61.551	0.00	0.00
ATOM	2122	NE2	GLN	137	61.182	33.338	60.728	0.00	0.00
ATOM	2123	1HE2	GLN	137	61.852	33.949	61.172	0.00	0.00
ATOM	2124	2HE2	GLN	137	60.548	33.825	60.111	0.00	0.00
ATOM	2125	C	GLN	137	59.453	30.192	57.024	0.00	0.00
ATOM	2126	O	GLN	137	59.631	30.787	55.974	0.00	0.00
ATOM	2127	N	VAL	138	58.249	30.098	57.605	0.00	0.00
ATOM	2128	H	VAL	138	58.152	29.513	58.423	0.00	0.00
ATOM	2129	CA	VAL	138	56.985	30.738	57.081	0.00	0.00
ATOM	2130	HA	VAL	138	57.405	31.477	56.399	0.00	0.00
ATOM	2131	CB	VAL	138	56.065	29.742	56.460	0.00	0.00

ATOM	2132	HB	VAL	138	55.730	29.067	57.248	0.00	0.00
ATOM	2133	CG1	VAL	138	54.777	30.398	55.925	0.00	0.00
ATOM	2134	1HG1	VAL	138	55.051	31.147	55.182	0.00	0.00
ATOM	2135	2HG1	VAL	138	53.984	29.788	55.491	0.00	0.00
ATOM	2136	3HG1	VAL	138	54.261	30.975	56.692	0.00	0.00
ATOM	2137	CG2	VAL	138	56.744	29.022	55.238	0.00	0.00
ATOM	2138	1HG2	VAL	138	57.568	28.398	55.584	0.00	0.00
ATOM	2139	2HG2	VAL	138	55.971	28.389	54.802	0.00	0.00
ATOM	2140	3HG2	VAL	138	57.045	29.739	54.475	0.00	0.00
ATOM	2141	C	VAL	138	56.223	31.372	58.256	0.00	0.00
ATOM	2142	O	VAL	138	55.942	30.730	59.318	0.00	0.00
ATOM	2143	N	GLY	139	55.750	32.588	58.092	0.00	0.00
ATOM	2144	H	GLY	139	55.758	33.002	57.171	0.00	0.00
ATOM	2145	CA	GLY	139	55.102	33.326	59.148	0.00	0.00
ATOM	2146	HA2	GLY	139	55.549	32.974	60.078	0.00	0.00
ATOM	2147	HA3	GLY	139	55.276	34.392	59.000	0.00	0.00
ATOM	2148	C	GLY	139	53.611	33.002	59.242	0.00	0.00
ATOM	2149	O	GLY	139	53.017	32.394	58.380	0.00	0.00
ATOM	2150	N	SER	140	52.882	33.430	60.298	0.00	0.00
ATOM	2151	H	SER	140	53.399	33.919	61.015	0.00	0.00
ATOM	2152	CA	SER	140	51.419	33.186	60.519	0.00	0.00
ATOM	2153	HA	SER	140	51.209	32.134	60.324	0.00	0.00
ATOM	2154	CB	SER	140	51.144	33.421	62.035	0.00	0.00
ATOM	2155	HB2	SER	140	50.239	32.838	62.208	0.00	0.00
ATOM	2156	HB3	SER	140	51.966	33.039	62.640	0.00	0.00
ATOM	2157	OG	SER	140	50.966	34.822	62.405	0.00	0.00

ATOM	2158	HG	SER	140	50.285	35.254	61.884	0.00	0.00
ATOM	2159	C	SER	140	50.442	33.853	59.587	0.00	0.00
ATOM	2160	O	SER	140	49.282	33.404	59.592	0.00	0.00
ATOM	2161	N	HIE	141	50.833	34.906	58.855	0.00	0.00
ATOM	2162	H	HIE	141	51.648	35.390	59.204	0.00	0.00
ATOM	2163	CA	HIE	141	49.896	35.620	58.046	0.00	0.00
ATOM	2164	HA	HIE	141	48.897	35.184	58.038	0.00	0.00
ATOM	2165	CB	HIE	141	49.809	37.022	58.611	0.00	0.00
ATOM	2166	HB2	HIE	141	50.802	37.410	58.839	0.00	0.00
ATOM	2167	HB3	HIE	141	49.351	37.605	57.812	0.00	0.00
ATOM	2168	CG	HIE	141	48.912	37.066	59.799	0.00	0.00
ATOM	2169	ND1	HIE	141	49.084	36.544	61.061	0.00	0.00
ATOM	2170	CE1	HIE	141	47.869	36.624	61.698	0.00	0.00
ATOM	2171	HE1	HIE	141	47.591	36.292	62.687	0.00	0.00
ATOM	2172	NE2	HIE	141	46.968	37.185	60.884	0.00	0.00
ATOM	2173	HE2	HIE	141	45.970	37.269	61.016	0.00	0.00
ATOM	2174	CD2	HIE	141	47.554	37.459	59.637	0.00	0.00
ATOM	2175	HD2	HIE	141	47.079	37.778	58.721	0.00	0.00
ATOM	2176	C	HIE	141	50.208	35.561	56.534	0.00	0.00
ATOM	2177	O	HIE	141	49.446	36.176	55.778	0.00	0.00
ATOM	2178	N	TYR	142	51.269	34.952	56.040	0.00	0.00
ATOM	2179	H	TYR	142	51.870	34.476	56.697	0.00	0.00
ATOM	2180	CA	TYR	142	51.507	34.707	54.625	0.00	0.00
ATOM	2181	HA	TYR	142	51.296	35.631	54.087	0.00	0.00
ATOM	2182	CB	TYR	142	53.025	34.557	54.402	0.00	0.00
ATOM	2183	HB2	TYR	142	53.402	35.487	54.828	0.00	0.00

ATOM	2184	HB3	TYR	142	53.367	33.675	54.943	0.00	0.00
ATOM	2185	CG	TYR	142	53.376	34.484	52.957	0.00	0.00
ATOM	2186	CD1	TYR	142	53.709	35.631	52.287	0.00	0.00
ATOM	2187	HD1	TYR	142	53.616	36.540	52.864	0.00	0.00
ATOM	2188	CE1	TYR	142	54.151	35.640	50.922	0.00	0.00
ATOM	2189	HE1	TYR	142	54.418	36.570	50.443	0.00	0.00
ATOM	2190	CZ	TYR	142	54.152	34.401	50.251	0.00	0.00
ATOM	2191	OH	TYR	142	54.276	34.494	48.857	0.00	0.00
ATOM	2192	HH	TYR	142	54.095	35.428	48.729	0.00	0.00
ATOM	2193	CE2	TYR	142	53.863	33.222	50.899	0.00	0.00
ATOM	2194	HE2	TYR	142	53.664	32.360	50.278	0.00	0.00
ATOM	2195	CD2	TYR	142	53.366	33.239	52.210	0.00	0.00
ATOM	2196	HD2	TYR	142	52.950	32.289	52.514	0.00	0.00
ATOM	2197	C	TYR	142	50.535	33.622	54.101	0.00	0.00
ATOM	2198	O	TYR	142	50.140	32.702	54.802	0.00	0.00
ATOM	2199	N	HID	143	50.129	33.796	52.862	0.00	0.00
ATOM	2200	H	HID	143	50.486	34.615	52.390	0.00	0.00
ATOM	2201	CA	HID	143	49.325	32.821	52.147	0.00	0.00
ATOM	2202	HA	HID	143	48.485	32.631	52.816	0.00	0.00
ATOM	2203	CB	HID	143	48.729	33.454	50.875	0.00	0.00
ATOM	2204	HB2	HID	143	48.380	34.398	51.293	0.00	0.00
ATOM	2205	HB3	HID	143	49.546	33.612	50.171	0.00	0.00
ATOM	2206	CG	HID	143	47.587	32.781	50.109	0.00	0.00
ATOM	2207	ND1	HID	143	46.963	33.377	49.001	0.00	0.00
ATOM	2208	HD1	HID	143	47.112	34.316	48.660	0.00	0.00
ATOM	2209	CE1	HID	143	46.102	32.482	48.564	0.00	0.00



ATOM	2210	HE1	HID	143	45.538	32.678	47.664	0.00	0.00
ATOM	2211	NE2	HID	143	45.980	31.399	49.329	0.00	0.00
ATOM	2212	CD2	HID	143	46.983	31.571	50.267	0.00	0.00
ATOM	2213	HD2	HID	143	47.172	30.890	51.084	0.00	0.00
ATOM	2214	C	HID	143	50.063	31.506	51.944	0.00	0.00
ATOM	2215	O	HID	143	51.070	31.494	51.236	0.00	0.00
ATOM	2216	N	PHE	144	49.624	30.414	52.618	0.00	0.00
ATOM	2217	H	PHE	144	48.806	30.436	53.210	0.00	0.00
ATOM	2218	CA	PHE	144	50.402	29.213	52.624	0.00	0.00
ATOM	2219	HA	PHE	144	51.321	29.579	53.081	0.00	0.00
ATOM	2220	CB	PHE	144	49.796	28.247	53.565	0.00	0.00
ATOM	2221	HB2	PHE	144	48.978	27.757	53.037	0.00	0.00
ATOM	2222	HB3	PHE	144	49.359	28.807	54.392	0.00	0.00
ATOM	2223	CG	PHE	144	50.861	27.368	54.194	0.00	0.00
ATOM	2224	CD1	PHE	144	51.883	27.848	54.976	0.00	0.00
ATOM	2225	HD1	PHE	144	51.803	28.854	55.359	0.00	0.00
ATOM	2226	CE1	PHE	144	52.995	27.079	55.363	0.00	0.00
ATOM	2227	HE1	PHE	144	53.762	27.537	55.970	0.00	0.00
ATOM	2228	CZ	PHE	144	53.027	25.731	55.009	0.00	0.00
ATOM	2229	HZ	PHE	144	53.801	25.105	55.427	0.00	0.00
ATOM	2230	CE2	PHE	144	52.005	25.206	54.291	0.00	0.00
ATOM	2231	HE2	PHE	144	52.104	24.218	53.868	0.00	0.00
ATOM	2232	CD2	PHE	144	50.986	26.005	53.701	0.00	0.00
ATOM	2233	HD2	PHE	144	50.405	25.680	52.850	0.00	0.00
ATOM	2234	C	PHE	144	50.587	28.492	51.290	0.00	0.00
ATOM	2235	O	PHE	144	51.584	27.882	50.986	0.00	0.00

ATOM	2236	N	ALA	145	49.572	28.494	50.405	0.00	0.00
ATOM	2237	H	ALA	145	48.725	28.985	50.656	0.00	0.00
ATOM	2238	CA	ALA	145	49.779	27.962	49.050	0.00	0.00
ATOM	2239	HA	ALA	145	50.103	26.925	49.141	0.00	0.00
ATOM	2240	CB	ALA	145	48.433	27.815	48.227	0.00	0.00
ATOM	2241	HB1	ALA	145	47.945	28.781	48.094	0.00	0.00
ATOM	2242	HB2	ALA	145	48.804	27.417	47.283	0.00	0.00
ATOM	2243	HB3	ALA	145	47.828	27.097	48.781	0.00	0.00
ATOM	2244	C	ALA	145	50.803	28.685	48.143	0.00	0.00
ATOM	2245	O	ALA	145	51.166	28.192	47.106	0.00	0.00
ATOM	2246	N	GLU	146	51.345	29.761	48.662	0.00	0.00
ATOM	2247	H	GLU	146	50.971	30.022	49.563	0.00	0.00
ATOM	2248	CA	GLU	146	52.133	30.710	47.917	0.00	0.00
ATOM	2249	HA	GLU	146	52.055	30.526	46.845	0.00	0.00
ATOM	2250	CB	GLU	146	51.663	32.148	48.155	0.00	0.00
ATOM	2251	HB2	GLU	146	50.585	32.119	48.314	0.00	0.00
ATOM	2252	HB3	GLU	146	52.031	32.462	49.132	0.00	0.00
ATOM	2253	CG	GLU	146	51.990	33.154	47.070	0.00	0.00
ATOM	2254	HG2	GLU	146	51.981	34.147	47.519	0.00	0.00
ATOM	2255	HG3	GLU	146	52.961	32.899	46.645	0.00	0.00
ATOM	2256	CD	GLU	146	51.014	33.236	45.791	0.00	0.00
ATOM	2257	OE1	GLU	146	50.316	34.286	45.631	0.00	0.00
ATOM	2258	OE2	GLU	146	50.716	32.176	45.175	0.00	0.00
ATOM	2259	C	GLU	146	53.666	30.657	48.280	0.00	0.00
ATOM	2260	O	GLU	146	54.477	31.148	47.564	0.00	0.00
ATOM	2261	N	VAL	147	54.040	29.904	49.332	0.00	0.00

ATOM	2262	H	VAL	147	53.264	29.427	49.769	0.00	0.00
ATOM	2263	CA	VAL	147	55.446	29.783	49.859	0.00	0.00
ATOM	2264	HA	VAL	147	55.823	30.805	49.831	0.00	0.00
ATOM	2265	CB	VAL	147	55.386	29.225	51.259	0.00	0.00
ATOM	2266	HB	VAL	147	56.382	29.261	51.699	0.00	0.00
ATOM	2267	CG1	VAL	147	54.533	29.940	52.272	0.00	0.00
ATOM	2268	1HG1	VAL	147	54.298	29.248	53.081	0.00	0.00
ATOM	2269	2HG1	VAL	147	55.164	30.689	52.750	0.00	0.00
ATOM	2270	3HG1	VAL	147	53.561	30.238	51.880	0.00	0.00
ATOM	2271	CG2	VAL	147	55.028	27.724	51.315	0.00	0.00
ATOM	2272	1HG2	VAL	147	55.043	27.398	52.355	0.00	0.00
ATOM	2273	2HG2	VAL	147	53.996	27.514	51.035	0.00	0.00
ATOM	2274	3HG2	VAL	147	55.614	27.124	50.619	0.00	0.00
ATOM	2275	C	VAL	147	56.383	29.000	48.900	0.00	0.00
ATOM	2276	O	VAL	147	56.001	28.267	47.988	0.00	0.00
ATOM	2277	N	ASN	148	57.684	29.175	49.082	0.00	0.00
ATOM	2278	H	ASN	148	57.970	29.825	49.801	0.00	0.00
ATOM	2279	CA	ASN	148	58.760	28.416	48.411	0.00	0.00
ATOM	2280	HA	ASN	148	59.083	29.066	47.598	0.00	0.00
ATOM	2281	CB	ASN	148	59.889	28.401	49.418	0.00	0.00
ATOM	2282	HB2	ASN	148	60.122	29.382	49.833	0.00	0.00
ATOM	2283	HB3	ASN	148	59.718	27.724	50.255	0.00	0.00
ATOM	2284	CG	ASN	148	61.150	27.997	48.693	0.00	0.00
ATOM	2285	OD1	ASN	148	61.215	27.275	47.734	0.00	0.00
ATOM	2286	ND2	ASN	148	62.234	28.479	49.197	0.00	0.00
ATOM	2287	1HD2	ASN	148	63.069	28.373	48.638	0.00	0.00

ATOM	2288	2HD2	ASN	148	62.101	28.876	50.116	0.00	0.00
ATOM	2289	C	ASN	148	58.423	26.959	47.863	0.00	0.00
ATOM	2290	O	ASN	148	58.019	26.042	48.583	0.00	0.00
ATOM	2291	N	PRO	149	58.597	26.750	46.480	0.00	0.00
ATOM	2292	CD	PRO	149	58.873	27.720	45.507	0.00	0.00
ATOM	2293	HD2	PRO	149	58.253	28.592	45.712	0.00	0.00
ATOM	2294	HD3	PRO	149	59.941	27.938	45.518	0.00	0.00
ATOM	2295	CG	PRO	149	58.316	27.099	44.269	0.00	0.00
ATOM	2296	HG2	PRO	149	57.245	27.272	44.158	0.00	0.00
ATOM	2297	HG3	PRO	149	58.828	27.647	43.478	0.00	0.00
ATOM	2298	CB	PRO	149	58.712	25.630	44.409	0.00	0.00
ATOM	2299	HB2	PRO	149	58.174	25.020	43.683	0.00	0.00
ATOM	2300	HB3	PRO	149	59.774	25.425	44.273	0.00	0.00
ATOM	2301	CA	PRO	149	58.225	25.480	45.849	0.00	0.00
ATOM	2302	HA	PRO	149	57.135	25.446	45.846	0.00	0.00
ATOM	2303	C	PRO	149	58.996	24.262	46.452	0.00	0.00
ATOM	2304	O	PRO	149	58.579	23.146	46.133	0.00	0.00
ATOM	2305	N	ALA	150	60.131	24.452	47.151	0.00	0.00
ATOM	2306	H	ALA	150	60.549	25.364	47.037	0.00	0.00
ATOM	2307	CA	ALA	150	60.916	23.425	47.832	0.00	0.00
ATOM	2308	HA	ALA	150	61.151	22.612	47.145	0.00	0.00
ATOM	2309	CB	ALA	150	62.320	23.935	48.255	0.00	0.00
ATOM	2310	HB1	ALA	150	62.908	24.285	47.407	0.00	0.00
ATOM	2311	HB2	ALA	150	62.173	24.746	48.969	0.00	0.00
ATOM	2312	HB3	ALA	150	62.825	23.138	48.799	0.00	0.00
ATOM	2313	C	ALA	150	60.181	22.766	49.067	0.00	0.00

ATOM	2314	O	ALA	150	60.547	21.622	49.334	0.00	0.00
ATOM	2315	N	LEU	151	59.202	23.420	49.699	0.00	0.00
ATOM	2316	H	LEU	151	58.980	24.320	49.297	0.00	0.00
ATOM	2317	CA	LEU	151	58.176	22.787	50.493	0.00	0.00
ATOM	2318	HA	LEU	151	58.690	22.063	51.125	0.00	0.00
ATOM	2319	CB	LEU	151	57.522	23.791	51.465	0.00	0.00
ATOM	2320	HB2	LEU	151	57.055	24.607	50.914	0.00	0.00
ATOM	2321	HB3	LEU	151	56.775	23.274	52.068	0.00	0.00
ATOM	2322	CG	LEU	151	58.440	24.444	52.460	0.00	0.00
ATOM	2323	HG	LEU	151	59.087	25.120	51.901	0.00	0.00
ATOM	2324	CD1	LEU	151	57.582	25.232	53.425	0.00	0.00
ATOM	2325	1HD1	LEU	151	56.892	25.879	52.884	0.00	0.00
ATOM	2326	2HD1	LEU	151	57.008	24.669	54.160	0.00	0.00
ATOM	2327	3HD1	LEU	151	58.219	25.784	54.116	0.00	0.00
ATOM	2328	CD2	LEU	151	59.361	23.469	53.195	0.00	0.00
ATOM	2329	1HD2	LEU	151	58.711	22.861	53.823	0.00	0.00
ATOM	2330	2HD2	LEU	151	59.926	22.838	52.509	0.00	0.00
ATOM	2331	3HD2	LEU	151	60.051	24.054	53.804	0.00	0.00
ATOM	2332	C	LEU	151	57.171	22.133	49.511	0.00	0.00
ATOM	2333	O	LEU	151	56.554	22.719	48.629	0.00	0.00
ATOM	2334	N	LYS	152	57.031	20.840	49.752	0.00	0.00
ATOM	2335	H	LYS	152	57.607	20.289	50.371	0.00	0.00
ATOM	2336	CA	LYS	152	56.069	19.974	49.071	0.00	0.00
ATOM	2337	HA	LYS	152	55.583	20.509	48.255	0.00	0.00
ATOM	2338	CB	LYS	152	56.764	18.839	48.311	0.00	0.00
ATOM	2339	HB2	LYS	152	57.329	18.297	49.069	0.00	0.00

ATOM	2340	HB3	LYS	152	55.927	18.271	47.904	0.00	0.00
ATOM	2341	CG	LYS	152	57.707	19.340	47.213	0.00	0.00
ATOM	2342	HG2	LYS	152	57.147	20.040	46.593	0.00	0.00
ATOM	2343	HG3	LYS	152	58.453	19.908	47.770	0.00	0.00
ATOM	2344	CD	LYS	152	58.262	18.117	46.477	0.00	0.00
ATOM	2345	HD2	LYS	152	58.876	17.431	47.061	0.00	0.00
ATOM	2346	HD3	LYS	152	57.447	17.506	46.086	0.00	0.00
ATOM	2347	CE	LYS	152	59.094	18.613	45.222	0.00	0.00
ATOM	2348	HE2	LYS	152	59.661	19.473	45.577	0.00	0.00
ATOM	2349	HE3	LYS	152	59.750	17.789	44.942	0.00	0.00
ATOM	2350	NZ	LYS	152	58.317	18.975	44.022	0.00	0.00
ATOM	2351	HZ1	LYS	152	58.203	19.978	44.015	0.00	0.00
ATOM	2352	HZ2	LYS	152	58.865	18.770	43.198	0.00	0.00
ATOM	2353	HZ3	LYS	152	57.481	18.408	44.004	0.00	0.00
ATOM	2354	C	LYS	152	54.931	19.546	49.939	0.00	0.00
ATOM	2355	O	LYS	152	55.084	18.741	50.911	0.00	0.00
ATOM	2356	N	PHE	153	53.674	19.894	49.551	0.00	0.00
ATOM	2357	H	PHE	153	53.664	20.524	48.762	0.00	0.00
ATOM	2358	CA	PHE	153	52.436	19.683	50.245	0.00	0.00
ATOM	2359	HA	PHE	153	52.475	18.613	50.448	0.00	0.00
ATOM	2360	CB	PHE	153	52.359	20.552	51.555	0.00	0.00
ATOM	2361	HB2	PHE	153	51.373	20.387	51.989	0.00	0.00
ATOM	2362	HB3	PHE	153	53.118	20.184	52.244	0.00	0.00
ATOM	2363	CG	PHE	153	52.387	22.044	51.312	0.00	0.00
ATOM	2364	CD1	PHE	153	51.171	22.763	51.037	0.00	0.00
ATOM	2365	HD1	PHE	153	50.238	22.271	51.269	0.00	0.00

ATOM	2366	CE1	PHE	153	51.184	24.140	50.712	0.00	0.00
ATOM	2367	HE1	PHE	153	50.264	24.704	50.662	0.00	0.00
ATOM	2368	CZ	PHE	153	52.454	24.749	50.642	0.00	0.00
ATOM	2369	HZ	PHE	153	52.591	25.815	50.532	0.00	0.00
ATOM	2370	CE2	PHE	153	53.688	24.049	50.895	0.00	0.00
ATOM	2371	HE2	PHE	153	54.640	24.556	50.834	0.00	0.00
ATOM	2372	CD2	PHE	153	53.603	22.715	51.211	0.00	0.00
ATOM	2373	HD2	PHE	153	54.483	22.176	51.533	0.00	0.00
ATOM	2374	C	PHE	153	51.247	19.921	49.386	0.00	0.00
ATOM	2375	O	PHE	153	51.375	20.379	48.276	0.00	0.00
ATOM	2376	N	ASP	154	50.024	19.729	49.863	0.00	0.00
ATOM	2377	H	ASP	154	49.926	19.466	50.833	0.00	0.00
ATOM	2378	CA	ASP	154	48.832	19.904	49.002	0.00	0.00
ATOM	2379	HA	ASP	154	49.020	19.642	47.961	0.00	0.00
ATOM	2380	CB	ASP	154	47.683	18.931	49.379	0.00	0.00
ATOM	2381	HB2	ASP	154	48.119	17.932	49.392	0.00	0.00
ATOM	2382	HB3	ASP	154	47.364	19.114	50.406	0.00	0.00
ATOM	2383	CG	ASP	154	46.415	19.019	48.500	0.00	0.00
ATOM	2384	OD1	ASP	154	46.325	19.999	47.689	0.00	0.00
ATOM	2385	OD2	ASP	154	45.621	18.102	48.431	0.00	0.00
ATOM	2386	C	ASP	154	48.408	21.389	48.972	0.00	0.00
ATOM	2387	O	ASP	154	47.634	21.871	49.799	0.00	0.00
ATOM	2388	N	ARG	155	48.890	22.128	47.943	0.00	0.00
ATOM	2389	H	ARG	155	49.472	21.658	47.264	0.00	0.00
ATOM	2390	CA	ARG	155	48.662	23.550	47.730	0.00	0.00
ATOM	2391	HA	ARG	155	48.800	24.045	48.691	0.00	0.00

ATOM	2392	CB	ARG	155	49.680	24.104	46.790	0.00	0.00
ATOM	2393	HB2	ARG	155	49.560	23.629	45.817	0.00	0.00
ATOM	2394	HB3	ARG	155	49.304	25.123	46.698	0.00	0.00
ATOM	2395	CG	ARG	155	51.125	24.070	47.303	0.00	0.00
ATOM	2396	HG2	ARG	155	51.295	24.749	48.139	0.00	0.00
ATOM	2397	HG3	ARG	155	51.380	23.070	47.653	0.00	0.00
ATOM	2398	CD	ARG	155	52.057	24.525	46.241	0.00	0.00
ATOM	2399	HD2	ARG	155	52.017	23.815	45.415	0.00	0.00
ATOM	2400	HD3	ARG	155	51.771	25.523	45.912	0.00	0.00
ATOM	2401	NE	ARG	155	53.434	24.598	46.756	0.00	0.00
ATOM	2402	HE	ARG	155	54.179	23.933	46.603	0.00	0.00
ATOM	2403	CZ	ARG	155	54.080	25.589	47.436	0.00	0.00
ATOM	2404	NH1	ARG	155	53.620	26.778	47.631	0.00	0.00
ATOM	2405	1HH1	ARG	155	54.307	27.509	47.745	0.00	0.00
ATOM	2406	2HH1	ARG	155	52.770	27.119	47.205	0.00	0.00
ATOM	2407	NH2	ARG	155	55.219	25.339	47.905	0.00	0.00
ATOM	2408	1HH2	ARG	155	55.851	25.980	48.362	0.00	0.00
ATOM	2409	2HH2	ARG	155	55.617	24.413	47.962	0.00	0.00
ATOM	2410	C	ARG	155	47.236	23.879	47.226	0.00	0.00
ATOM	2411	O	ARG	155	46.840	25.001	47.196	0.00	0.00
ATOM	2412	N	GLN	156	46.469	22.901	46.811	0.00	0.00
ATOM	2413	H	GLN	156	46.843	21.983	47.008	0.00	0.00
ATOM	2414	CA	GLN	156	45.082	23.118	46.471	0.00	0.00
ATOM	2415	HA	GLN	156	44.917	24.127	46.093	0.00	0.00
ATOM	2416	CB	GLN	156	44.625	22.244	45.261	0.00	0.00
ATOM	2417	HB2	GLN	156	45.106	21.294	45.491	0.00	0.00



ATOM	2418	HB3	GLN	156	43.571	21.992	45.382	0.00	0.00
ATOM	2419	CG	GLN	156	45.072	22.758	43.842	0.00	0.00
ATOM	2420	HG2	GLN	156	44.320	23.335	43.304	0.00	0.00
ATOM	2421	HG3	GLN	156	45.968	23.350	44.030	0.00	0.00
ATOM	2422	CD	GLN	156	45.386	21.593	42.854	0.00	0.00
ATOM	2423	OE1	GLN	156	46.463	21.016	42.727	0.00	0.00
ATOM	2424	NE2	GLN	156	44.355	21.029	42.277	0.00	0.00
ATOM	2425	1HE2	GLN	156	44.528	20.387	41.517	0.00	0.00
ATOM	2426	2HE2	GLN	156	43.388	21.287	42.414	0.00	0.00
ATOM	2427	C	GLN	156	44.159	22.970	47.721	0.00	0.00
ATOM	2428	O	GLN	156	43.140	23.643	47.812	0.00	0.00
ATOM	2429	N	GLN	157	44.517	22.147	48.719	0.00	0.00
ATOM	2430	H	GLN	157	45.321	21.554	48.569	0.00	0.00
ATOM	2431	CA	GLN	157	43.808	22.321	50.034	0.00	0.00
ATOM	2432	HA	GLN	157	42.733	22.263	49.866	0.00	0.00
ATOM	2433	CB	GLN	157	44.098	21.061	50.843	0.00	0.00
ATOM	2434	HB2	GLN	157	45.146	20.762	50.824	0.00	0.00
ATOM	2435	HB3	GLN	157	43.850	21.163	51.900	0.00	0.00
ATOM	2436	CG	GLN	157	43.338	19.784	50.342	0.00	0.00
ATOM	2437	HG2	GLN	157	42.272	19.990	50.433	0.00	0.00
ATOM	2438	HG3	GLN	157	43.604	19.636	49.295	0.00	0.00
ATOM	2439	CD	GLN	157	43.693	18.643	51.309	0.00	0.00
ATOM	2440	OE1	GLN	157	43.262	18.654	52.465	0.00	0.00
ATOM	2441	NE2	GLN	157	44.482	17.706	51.006	0.00	0.00
ATOM	2442	1HE2	GLN	157	44.632	16.899	51.594	0.00	0.00
ATOM	2443	2HE2	GLN	157	44.731	17.754	50.028	0.00	0.00

ATOM	2444	C	GLN	157	44.086	23.613	50.820	0.00	0.00
ATOM	2445	O	GLN	157	43.282	24.187	51.494	0.00	0.00
ATOM	2446	N	ALA	158	45.330	24.090	50.662	0.00	0.00
ATOM	2447	H	ALA	158	45.881	23.573	49.992	0.00	0.00
ATOM	2448	CA	ALA	158	45.844	25.319	51.251	0.00	0.00
ATOM	2449	HA	ALA	158	45.379	25.473	52.225	0.00	0.00
ATOM	2450	CB	ALA	158	47.332	25.166	51.481	0.00	0.00
ATOM	2451	HB1	ALA	158	47.672	26.057	52.008	0.00	0.00
ATOM	2452	HB2	ALA	158	47.614	24.255	52.009	0.00	0.00
ATOM	2453	HB3	ALA	158	47.798	25.259	50.500	0.00	0.00
ATOM	2454	C	ALA	158	45.462	26.582	50.440	0.00	0.00
ATOM	2455	O	ALA	158	45.859	27.591	50.895	0.00	0.00
ATOM	2456	N	ALA	159	44.614	26.498	49.421	0.00	0.00
ATOM	2457	H	ALA	159	44.267	25.564	49.259	0.00	0.00
ATOM	2458	CA	ALA	159	44.158	27.658	48.605	0.00	0.00
ATOM	2459	HA	ALA	159	45.058	28.260	48.486	0.00	0.00
ATOM	2460	CB	ALA	159	43.642	27.102	47.298	0.00	0.00
ATOM	2461	HB1	ALA	159	42.912	26.300	47.408	0.00	0.00
ATOM	2462	HB2	ALA	159	43.276	27.946	46.714	0.00	0.00
ATOM	2463	HB3	ALA	159	44.562	26.655	46.922	0.00	0.00
ATOM	2464	C	ALA	159	43.138	28.558	49.307	0.00	0.00
ATOM	2465	O	ALA	159	42.002	28.210	49.584	0.00	0.00
ATOM	2466	N	GLY	160	43.632	29.690	49.729	0.00	0.00
ATOM	2467	H	GLY	160	44.588	29.915	49.493	0.00	0.00
ATOM	2468	CA	GLY	160	42.904	30.682	50.545	0.00	0.00
ATOM	2469	HA2	GLY	160	43.202	31.655	50.155	0.00	0.00

ATOM	2470	HA3	GLY	160	41.831	30.570	50.389	0.00	0.00
ATOM	2471	C	GLY	160	43.197	30.614	52.058	0.00	0.00
ATOM	2472	O	GLY	160	42.381	31.139	52.822	0.00	0.00
ATOM	2473	N	TYR	161	44.301	29.973	52.499	0.00	0.00
ATOM	2474	H	TYR	161	44.734	29.431	51.765	0.00	0.00
ATOM	2475	CA	TYR	161	44.657	29.731	53.864	0.00	0.00
ATOM	2476	HA	TYR	161	43.999	30.200	54.595	0.00	0.00
ATOM	2477	CB	TYR	161	44.615	28.270	54.086	0.00	0.00
ATOM	2478	HB2	TYR	161	45.229	27.697	53.390	0.00	0.00
ATOM	2479	HB3	TYR	161	45.008	28.036	55.076	0.00	0.00
ATOM	2480	CG	TYR	161	43.235	27.695	54.086	0.00	0.00
ATOM	2481	CD1	TYR	161	42.588	27.580	55.345	0.00	0.00
ATOM	2482	HD1	TYR	161	43.060	27.923	56.254	0.00	0.00
ATOM	2483	CE1	TYR	161	41.225	27.213	55.425	0.00	0.00
ATOM	2484	HE1	TYR	161	40.626	27.219	56.324	0.00	0.00
ATOM	2485	CZ	TYR	161	40.545	26.950	54.235	0.00	0.00
ATOM	2486	OH	TYR	161	39.247	26.645	54.430	0.00	0.00
ATOM	2487	HH	TYR	161	38.772	26.310	53.666	0.00	0.00
ATOM	2488	CE2	TYR	161	41.217	26.996	52.987	0.00	0.00
ATOM	2489	HE2	TYR	161	40.725	26.670	52.083	0.00	0.00
ATOM	2490	CD2	TYR	161	42.571	27.312	52.919	0.00	0.00
ATOM	2491	HD2	TYR	161	43.117	27.236	51.991	0.00	0.00
ATOM	2492	C	TYR	161	46.079	30.262	54.313	0.00	0.00
ATOM	2493	O	TYR	161	47.003	30.452	53.509	0.00	0.00
ATOM	2494	N	ARG	162	46.284	30.418	55.651	0.00	0.00
ATOM	2495	H	ARG	162	45.402	30.253	56.114	0.00	0.00

ATOM	2496	CA	ARG	162	47.509	30.790	56.356	0.00	0.00
ATOM	2497	HA	ARG	162	48.371	30.635	55.706	0.00	0.00
ATOM	2498	CB	ARG	162	47.355	32.208	56.739	0.00	0.00
ATOM	2499	HB2	ARG	162	48.304	32.699	56.954	0.00	0.00
ATOM	2500	HB3	ARG	162	47.011	32.714	55.837	0.00	0.00
ATOM	2501	CG	ARG	162	46.344	32.409	57.910	0.00	0.00
ATOM	2502	HG2	ARG	162	45.387	32.134	57.466	0.00	0.00
ATOM	2503	HG3	ARG	162	46.542	31.885	58.845	0.00	0.00
ATOM	2504	CD	ARG	162	46.118	33.859	58.338	0.00	0.00
ATOM	2505	HD2	ARG	162	47.078	34.358	58.469	0.00	0.00
ATOM	2506	HD3	ARG	162	45.662	34.406	57.512	0.00	0.00
ATOM	2507	NE	ARG	162	45.271	34.068	59.517	0.00	0.00
ATOM	2508	HE	ARG	162	44.394	34.544	59.360	0.00	0.00
ATOM	2509	CZ	ARG	162	45.737	33.955	60.728	0.00	0.00
ATOM	2510	NH1	ARG	162	46.904	33.451	61.075	0.00	0.00
ATOM	2511	1HH1	ARG	162	47.018	33.549	62.074	0.00	0.00
ATOM	2512	2HH1	ARG	162	47.639	33.164	60.445	0.00	0.00
ATOM	2513	NH2	ARG	162	45.025	34.401	61.680	0.00	0.00
ATOM	2514	1HH2	ARG	162	45.302	34.474	62.648	0.00	0.00
ATOM	2515	2HH2	ARG	162	44.198	34.939	61.461	0.00	0.00
ATOM	2516	C	ARG	162	47.765	29.897	57.585	0.00	0.00
ATOM	2517	O	ARG	162	46.849	29.174	57.932	0.00	0.00
ATOM	2518	N	LEU	163	48.816	29.927	58.376	0.00	0.00
ATOM	2519	H	LEU	163	49.545	30.559	58.078	0.00	0.00
ATOM	2520	CA	LEU	163	49.093	28.968	59.506	0.00	0.00
ATOM	2521	HA	LEU	163	48.838	27.940	59.247	0.00	0.00

ATOM	2522	CB	LEU	163	50.579	29.106	59.822	0.00	0.00
ATOM	2523	HB2	LEU	163	50.912	30.135	59.959	0.00	0.00
ATOM	2524	HB3	LEU	163	50.860	28.718	60.802	0.00	0.00
ATOM	2525	CG	LEU	163	51.570	28.530	58.758	0.00	0.00
ATOM	2526	HG	LEU	163	51.296	28.940	57.786	0.00	0.00
ATOM	2527	CD1	LEU	163	52.987	28.958	58.953	0.00	0.00
ATOM	2528	1HD1	LEU	163	52.948	30.034	58.787	0.00	0.00
ATOM	2529	2HD1	LEU	163	53.241	28.720	59.986	0.00	0.00
ATOM	2530	3HD1	LEU	163	53.666	28.342	58.364	0.00	0.00
ATOM	2531	CD2	LEU	163	51.577	26.933	58.748	0.00	0.00
ATOM	2532	1HD2	LEU	163	50.539	26.601	58.764	0.00	0.00
ATOM	2533	2HD2	LEU	163	51.917	26.582	57.773	0.00	0.00
ATOM	2534	3HD2	LEU	163	52.181	26.586	59.586	0.00	0.00
ATOM	2535	C	LEU	163	48.359	29.294	60.837	0.00	0.00
ATOM	2536	O	LEU	163	48.392	30.411	61.290	0.00	0.00
ATOM	2537	N	ASN	164	47.693	28.322	61.484	0.00	0.00
ATOM	2538	H	ASN	164	47.584	27.379	61.140	0.00	0.00
ATOM	2539	CA	ASN	164	46.878	28.427	62.650	0.00	0.00
ATOM	2540	HA	ASN	164	46.430	29.420	62.670	0.00	0.00
ATOM	2541	CB	ASN	164	45.830	27.223	62.647	0.00	0.00
ATOM	2542	HB2	ASN	164	45.364	27.271	61.662	0.00	0.00
ATOM	2543	HB3	ASN	164	46.451	26.330	62.705	0.00	0.00
ATOM	2544	CG	ASN	164	44.652	27.314	63.638	0.00	0.00
ATOM	2545	OD1	ASN	164	44.463	28.234	64.392	0.00	0.00
ATOM	2546	ND2	ASN	164	43.830	26.301	63.643	0.00	0.00
ATOM	2547	1HD2	ASN	164	43.024	26.443	64.235	0.00	0.00

ATOM	2548	2HD2	ASN	164	43.906	25.522	63.005	0.00	0.00
ATOM	2549	C	ASN	164	47.713	28.401	64.042	0.00	0.00
ATOM	2550	O	ASN	164	47.799	27.324	64.673	0.00	0.00
ATOM	2551	N	ILE	165	48.212	29.592	64.437	0.00	0.00
ATOM	2552	H	ILE	165	48.069	30.434	63.897	0.00	0.00
ATOM	2553	CA	ILE	165	49.205	29.675	65.554	0.00	0.00
ATOM	2554	HA	ILE	165	49.005	28.855	66.245	0.00	0.00
ATOM	2555	CB	ILE	165	50.651	29.429	65.032	0.00	0.00
ATOM	2556	HB	ILE	165	51.357	29.650	65.832	0.00	0.00
ATOM	2557	CG2	ILE	165	50.828	27.855	64.904	0.00	0.00
ATOM	2558	1HG2	ILE	165	50.260	27.309	65.657	0.00	0.00
ATOM	2559	2HG2	ILE	165	50.340	27.503	63.995	0.00	0.00
ATOM	2560	3HG2	ILE	165	51.845	27.464	64.921	0.00	0.00
ATOM	2561	CG1	ILE	165	50.892	30.315	63.827	0.00	0.00
ATOM	2562	2HG1	ILE	165	50.286	29.969	62.990	0.00	0.00
ATOM	2563	3HG1	ILE	165	50.495	31.307	64.043	0.00	0.00
ATOM	2564	CD1	ILE	165	52.326	30.347	63.320	0.00	0.00
ATOM	2565	1HD1	ILE	165	52.743	29.386	63.022	0.00	0.00
ATOM	2566	2HD1	ILE	165	52.438	31.079	62.520	0.00	0.00
ATOM	2567	3HD1	ILE	165	53.092	30.756	63.979	0.00	0.00
ATOM	2568	C	ILE	165	49.116	31.027	66.313	0.00	0.00
ATOM	2569	O	ILE	165	48.423	31.900	65.800	0.00	0.00
ATOM	2570	N	PRO	166	49.788	31.267	67.484	0.00	0.00
ATOM	2571	CD	PRO	166	50.582	30.412	68.247	0.00	0.00
ATOM	2572	HD2	PRO	166	50.158	29.415	68.371	0.00	0.00
ATOM	2573	HD3	PRO	166	51.559	30.326	67.772	0.00	0.00

ATOM	2574	CG	PRO	166	50.605	31.143	69.612	0.00	0.00
ATOM	2575	HG2	PRO	166	49.734	30.948	70.238	0.00	0.00
ATOM	2576	HG3	PRO	166	51.502	30.824	70.142	0.00	0.00
ATOM	2577	CB	PRO	166	50.683	32.632	69.309	0.00	0.00
ATOM	2578	HB2	PRO	166	50.248	33.291	70.061	0.00	0.00
ATOM	2579	HB3	PRO	166	51.702	32.923	69.055	0.00	0.00
ATOM	2580	CA	PRO	166	49.813	32.651	68.057	0.00	0.00
ATOM	2581	HA	PRO	166	48.806	32.991	68.298	0.00	0.00
ATOM	2582	C	PRO	166	50.389	33.626	66.999	0.00	0.00
ATOM	2583	O	PRO	166	51.518	33.420	66.539	0.00	0.00
ATOM	2584	N	ALA	167	49.742	34.743	66.776	0.00	0.00
ATOM	2585	H	ALA	167	48.920	34.987	67.309	0.00	0.00
ATOM	2586	CA	ALA	167	50.106	35.651	65.754	0.00	0.00
ATOM	2587	HA	ALA	167	50.071	35.024	64.864	0.00	0.00
ATOM	2588	CB	ALA	167	48.881	36.651	65.564	0.00	0.00
ATOM	2589	HB1	ALA	167	48.051	36.016	65.254	0.00	0.00
ATOM	2590	HB2	ALA	167	48.644	37.168	66.494	0.00	0.00
ATOM	2591	HB3	ALA	167	49.049	37.369	64.761	0.00	0.00
ATOM	2592	C	ALA	167	51.499	36.251	65.841	0.00	0.00
ATOM	2593	O	ALA	167	51.952	36.704	66.949	0.00	0.00
ATOM	2594	N	GLY	168	52.278	36.233	64.754	0.00	0.00
ATOM	2595	H	GLY	168	51.859	35.859	63.914	0.00	0.00
ATOM	2596	CA	GLY	168	53.729	36.612	64.828	0.00	0.00
ATOM	2597	HA2	GLY	168	54.013	36.831	63.798	0.00	0.00
ATOM	2598	HA3	GLY	168	53.795	37.507	65.447	0.00	0.00
ATOM	2599	C	GLY	168	54.682	35.536	65.212	0.00	0.00

ATOM	2600	O	GLY	168	55.858	35.798	65.342	0.00	0.00
ATOM	2601	N	THR	169	54.242	34.313	65.555	0.00	0.00
ATOM	2602	H	THR	169	53.245	34.158	65.606	0.00	0.00
ATOM	2603	CA	THR	169	55.152	33.168	65.617	0.00	0.00
ATOM	2604	HA	THR	169	56.175	33.481	65.827	0.00	0.00
ATOM	2605	CB	THR	169	54.737	32.129	66.714	0.00	0.00
ATOM	2606	HB	THR	169	55.389	31.256	66.684	0.00	0.00
ATOM	2607	CG2	THR	169	54.719	32.700	68.164	0.00	0.00
ATOM	2608	1HG2	THR	169	54.376	32.046	68.966	0.00	0.00
ATOM	2609	2HG2	THR	169	55.751	32.944	68.416	0.00	0.00
ATOM	2610	3HG2	THR	169	54.045	33.557	68.166	0.00	0.00
ATOM	2611	OG1	THR	169	53.516	31.527	66.605	0.00	0.00
ATOM	2612	HG1	THR	169	52.841	32.206	66.548	0.00	0.00
ATOM	2613	C	THR	169	55.207	32.498	64.265	0.00	0.00
ATOM	2614	O	THR	169	54.384	32.698	63.372	0.00	0.00
ATOM	2615	N	ALA	170	56.217	31.718	63.952	0.00	0.00
ATOM	2616	H	ALA	170	56.907	31.537	64.666	0.00	0.00
ATOM	2617	CA	ALA	170	56.517	31.083	62.624	0.00	0.00
ATOM	2618	HA	ALA	170	55.753	31.412	61.921	0.00	0.00
ATOM	2619	CB	ALA	170	57.931	31.470	62.176	0.00	0.00
ATOM	2620	HB1	ALA	170	58.169	31.004	61.219	0.00	0.00
ATOM	2621	HB2	ALA	170	58.043	32.553	62.117	0.00	0.00
ATOM	2622	HB3	ALA	170	58.628	31.067	62.910	0.00	0.00
ATOM	2623	C	ALA	170	56.369	29.573	62.733	0.00	0.00
ATOM	2624	O	ALA	170	56.235	28.952	63.808	0.00	0.00
ATOM	2625	N	VAL	171	56.421	28.906	61.600	0.00	0.00



ATOM	2626	H	VAL	171	56.410	29.519	60.797	0.00	0.00
ATOM	2627	CA	VAL	171	56.777	27.508	61.427	0.00	0.00
ATOM	2628	HA	VAL	171	57.005	27.174	62.439	0.00	0.00
ATOM	2629	CB	VAL	171	55.688	26.528	60.922	0.00	0.00
ATOM	2630	HB	VAL	171	55.255	26.967	60.023	0.00	0.00
ATOM	2631	CG1	VAL	171	56.346	25.144	60.705	0.00	0.00
ATOM	2632	1HG1	VAL	171	55.592	24.367	60.582	0.00	0.00
ATOM	2633	2HG1	VAL	171	57.041	25.253	59.872	0.00	0.00
ATOM	2634	3HG1	VAL	171	56.997	24.916	61.549	0.00	0.00
ATOM	2635	CG2	VAL	171	54.586	26.301	62.021	0.00	0.00
ATOM	2636	1HG2	VAL	171	54.186	27.193	62.504	0.00	0.00
ATOM	2637	2HG2	VAL	171	53.744	25.704	61.671	0.00	0.00
ATOM	2638	3HG2	VAL	171	55.045	25.811	62.879	0.00	0.00
ATOM	2639	C	VAL	171	58.088	27.407	60.651	0.00	0.00
ATOM	2640	O	VAL	171	58.243	27.996	59.606	0.00	0.00
ATOM	2641	N	ARG	172	59.023	26.696	61.188	0.00	0.00
ATOM	2642	H	ARG	172	58.760	26.131	61.983	0.00	0.00
ATOM	2643	CA	ARG	172	60.235	26.296	60.500	0.00	0.00
ATOM	2644	HA	ARG	172	60.340	26.866	59.577	0.00	0.00
ATOM	2645	CB	ARG	172	61.434	26.578	61.380	0.00	0.00
ATOM	2646	HB2	ARG	172	61.294	26.126	62.361	0.00	0.00
ATOM	2647	HB3	ARG	172	62.311	26.059	60.993	0.00	0.00
ATOM	2648	CG	ARG	172	61.906	28.052	61.374	0.00	0.00
ATOM	2649	HG2	ARG	172	62.003	28.448	60.363	0.00	0.00
ATOM	2650	HG3	ARG	172	61.080	28.708	61.647	0.00	0.00
ATOM	2651	CD	ARG	172	63.049	28.354	62.287	0.00	0.00

ATOM	2652	HD2	ARG	172	63.847	27.654	62.038	0.00	0.00
ATOM	2653	HD3	ARG	172	63.478	29.345	62.140	0.00	0.00
ATOM	2654	NE	ARG	172	62.743	28.153	63.700	0.00	0.00
ATOM	2655	HE	ARG	172	62.627	27.216	64.059	0.00	0.00
ATOM	2656	CZ	ARG	172	62.256	29.053	64.550	0.00	0.00
ATOM	2657	NH1	ARG	172	62.074	30.268	64.300	0.00	0.00
ATOM	2658	1HH1	ARG	172	61.573	30.769	65.019	0.00	0.00
ATOM	2659	2HH1	ARG	172	62.264	30.540	63.346	0.00	0.00
ATOM	2660	NH2	ARG	172	62.134	28.739	65.823	0.00	0.00
ATOM	2661	1HH2	ARG	172	61.681	29.291	66.537	0.00	0.00
ATOM	2662	2HH2	ARG	172	62.345	27.779	66.057	0.00	0.00
ATOM	2663	C	ARG	172	60.226	24.858	60.085	0.00	0.00
ATOM	2664	O	ARG	172	59.727	23.995	60.791	0.00	0.00
ATOM	2665	N	PHE	173	60.774	24.601	58.928	0.00	0.00
ATOM	2666	H	PHE	173	61.165	25.328	58.346	0.00	0.00
ATOM	2667	CA	PHE	173	60.822	23.357	58.224	0.00	0.00
ATOM	2668	HA	PHE	173	60.158	22.655	58.729	0.00	0.00
ATOM	2669	CB	PHE	173	60.000	23.441	56.893	0.00	0.00
ATOM	2670	HB2	PHE	173	60.542	23.923	56.079	0.00	0.00
ATOM	2671	HB3	PHE	173	59.880	22.408	56.568	0.00	0.00
ATOM	2672	CG	PHE	173	58.547	23.956	57.120	0.00	0.00
ATOM	2673	CD1	PHE	173	57.536	23.049	57.269	0.00	0.00
ATOM	2674	HD1	PHE	173	57.732	21.990	57.337	0.00	0.00
ATOM	2675	CE1	PHE	173	56.191	23.452	57.432	0.00	0.00
ATOM	2676	HE1	PHE	173	55.447	22.693	57.620	0.00	0.00
ATOM	2677	CZ	PHE	173	55.859	24.798	57.262	0.00	0.00

ATOM	2678	HZ	PHE	173	54.833	25.131	57.322	0.00	0.00
ATOM	2679	CE2	PHE	173	56.891	25.785	57.086	0.00	0.00
ATOM	2680	HE2	PHE	173	56.596	26.819	56.984	0.00	0.00
ATOM	2681	CD2	PHE	173	58.220	25.321	56.934	0.00	0.00
ATOM	2682	HD2	PHE	173	59.008	26.041	56.769	0.00	0.00
ATOM	2683	C	PHE	173	62.231	22.770	57.904	0.00	0.00
ATOM	2684	O	PHE	173	62.853	23.330	57.018	0.00	0.00
ATOM	2685	N	GLU	174	62.684	21.739	58.645	0.00	0.00
ATOM	2686	H	GLU	174	62.027	21.349	59.306	0.00	0.00
ATOM	2687	CA	GLU	174	64.033	21.176	58.438	0.00	0.00
ATOM	2688	HA	GLU	174	64.625	22.092	58.447	0.00	0.00
ATOM	2689	CB	GLU	174	64.525	20.276	59.599	0.00	0.00
ATOM	2690	HB2	GLU	174	63.996	19.325	59.547	0.00	0.00
ATOM	2691	HB3	GLU	174	65.577	20.044	59.432	0.00	0.00
ATOM	2692	CG	GLU	174	64.421	20.987	61.004	0.00	0.00
ATOM	2693	HG2	GLU	174	63.606	21.708	61.058	0.00	0.00
ATOM	2694	HG3	GLU	174	64.214	20.230	61.761	0.00	0.00
ATOM	2695	CD	GLU	174	65.778	21.609	61.487	0.00	0.00
ATOM	2696	OE1	GLU	174	66.270	22.535	60.758	0.00	0.00
ATOM	2697	OE2	GLU	174	66.211	21.302	62.621	0.00	0.00
ATOM	2698	C	GLU	174	64.168	20.498	57.056	0.00	0.00
ATOM	2699	O	GLU	174	63.192	19.855	56.654	0.00	0.00
ATOM	2700	N	PRO	175	65.339	20.614	56.430	0.00	0.00
ATOM	2701	CD	PRO	175	66.414	21.498	56.836	0.00	0.00
ATOM	2702	HD2	PRO	175	66.144	22.538	56.655	0.00	0.00
ATOM	2703	HD3	PRO	175	66.645	21.379	57.895	0.00	0.00

ATOM	2704	CG	PRO	175	67.529	21.099	55.865	0.00	0.00
ATOM	2705	HG2	PRO	175	68.368	21.787	55.758	0.00	0.00
ATOM	2706	HG3	PRO	175	68.130	20.259	56.214	0.00	0.00
ATOM	2707	CB	PRO	175	66.744	20.743	54.599	0.00	0.00
ATOM	2708	HB2	PRO	175	66.410	21.664	54.121	0.00	0.00
ATOM	2709	HB3	PRO	175	67.343	20.148	53.910	0.00	0.00
ATOM	2710	CA	PRO	175	65.481	20.038	55.076	0.00	0.00
ATOM	2711	HA	PRO	175	64.644	20.308	54.432	0.00	0.00
ATOM	2712	C	PRO	175	65.536	18.566	55.041	0.00	0.00
ATOM	2713	O	PRO	175	66.168	17.920	55.873	0.00	0.00
ATOM	2714	N	GLY	176	64.805	17.970	54.088	0.00	0.00
ATOM	2715	H	GLY	176	64.332	18.544	53.405	0.00	0.00
ATOM	2716	CA	GLY	176	64.668	16.500	53.903	0.00	0.00
ATOM	2717	HA2	GLY	176	64.271	16.257	52.917	0.00	0.00
ATOM	2718	HA3	GLY	176	65.617	15.965	53.889	0.00	0.00
ATOM	2719	C	GLY	176	63.701	15.902	54.940	0.00	0.00
ATOM	2720	O	GLY	176	63.220	14.776	54.775	0.00	0.00
ATOM	2721	N	GLN	177	63.324	16.651	55.912	0.00	0.00
ATOM	2722	H	GLN	177	63.859	17.497	56.047	0.00	0.00
ATOM	2723	CA	GLN	177	62.384	16.361	56.918	0.00	0.00
ATOM	2724	HA	GLN	177	62.500	15.314	57.200	0.00	0.00
ATOM	2725	CB	GLN	177	62.730	17.027	58.289	0.00	0.00
ATOM	2726	HB2	GLN	177	62.492	18.091	58.282	0.00	0.00
ATOM	2727	HB3	GLN	177	62.069	16.617	59.052	0.00	0.00
ATOM	2728	CG	GLN	177	64.144	16.761	58.844	0.00	0.00
ATOM	2729	HG2	GLN	177	64.820	17.434	58.317	0.00	0.00

ATOM	2730	HG3	GLN	177	64.238	17.067	59.886	0.00	0.00
ATOM	2731	CD	GLN	177	64.616	15.308	58.779	0.00	0.00
ATOM	2732	OE1	GLN	177	64.863	14.688	57.739	0.00	0.00
ATOM	2733	NE2	GLN	177	64.586	14.560	59.846	0.00	0.00
ATOM	2734	1HE2	GLN	177	64.818	13.581	59.761	0.00	0.00
ATOM	2735	2HE2	GLN	177	64.674	15.044	60.728	0.00	0.00
ATOM	2736	C	GLN	177	60.939	16.545	56.535	0.00	0.00
ATOM	2737	O	GLN	177	60.659	17.322	55.564	0.00	0.00
ATOM	2738	N	LYS	178	60.008	16.074	57.385	0.00	0.00
ATOM	2739	H	LYS	178	60.428	15.681	58.215	0.00	0.00
ATOM	2740	CA	LYS	178	58.524	16.084	57.255	0.00	0.00
ATOM	2741	HA	LYS	178	58.201	16.702	56.417	0.00	0.00
ATOM	2742	CB	LYS	178	58.153	14.644	56.902	0.00	0.00
ATOM	2743	HB2	LYS	178	58.802	14.190	56.153	0.00	0.00
ATOM	2744	HB3	LYS	178	58.189	13.981	57.766	0.00	0.00
ATOM	2745	CG	LYS	178	56.699	14.629	56.301	0.00	0.00
ATOM	2746	HG2	LYS	178	55.886	15.129	56.827	0.00	0.00
ATOM	2747	HG3	LYS	178	56.781	15.176	55.362	0.00	0.00
ATOM	2748	CD	LYS	178	56.272	13.175	56.033	0.00	0.00
ATOM	2749	HD2	LYS	178	56.070	12.687	56.987	0.00	0.00
ATOM	2750	HD3	LYS	178	55.352	13.281	55.459	0.00	0.00
ATOM	2751	CE	LYS	178	57.099	12.185	55.180	0.00	0.00
ATOM	2752	HE2	LYS	178	57.329	12.649	54.220	0.00	0.00
ATOM	2753	HE3	LYS	178	58.068	12.017	55.648	0.00	0.00
ATOM	2754	NZ	LYS	178	56.534	10.813	54.960	0.00	0.00
ATOM	2755	HZ1	LYS	178	55.564	10.836	54.679	0.00	0.00

ATOM 2756 HZ2 LYS 178 57.014 10.288 54.243 0.00 0.00  
ATOM 2757 HZ3 LYS 178 56.646 10.327 55.838 0.00 0.00  
ATOM 2758 C LYS 178 57.735 16.641 58.442 0.00 0.00  
ATOM 2759 O LYS 178 57.888 16.080 59.570 0.00 0.00  
ATOM 2760 N ARG 179 56.816 17.582 58.314 0.00 0.00  
ATOM 2761 H ARG 179 56.736 18.074 57.435 0.00 0.00  
ATOM 2762 CA ARG 179 55.906 18.057 59.449 0.00 0.00  
ATOM 2763 HA ARG 179 55.652 17.091 59.886 0.00 0.00  
ATOM 2764 CB ARG 179 56.484 19.020 60.451 0.00 0.00  
ATOM 2765 HB2 ARG 179 55.695 19.049 61.203 0.00 0.00  
ATOM 2766 HB3 ARG 179 57.335 18.565 60.958 0.00 0.00  
ATOM 2767 CG ARG 179 56.836 20.436 59.892 0.00 0.00  
ATOM 2768 HG2 ARG 179 57.368 20.379 58.942 0.00 0.00  
ATOM 2769 HG3 ARG 179 55.912 20.993 59.740 0.00 0.00  
ATOM 2770 CD ARG 179 57.572 21.320 60.855 0.00 0.00  
ATOM 2771 HD2 ARG 179 58.537 20.880 61.106 0.00 0.00  
ATOM 2772 HD3 ARG 179 57.755 22.275 60.361 0.00 0.00  
ATOM 2773 NE ARG 179 56.774 21.595 62.070 0.00 0.00  
ATOM 2774 HE ARG 179 55.899 21.098 62.151 0.00 0.00  
ATOM 2775 CZ ARG 179 57.214 22.346 63.080 0.00 0.00  
ATOM 2776 NH1 ARG 179 56.534 22.387 64.206 0.00 0.00  
ATOM 2777 1HH1 ARG 179 56.666 23.207 64.781 0.00 0.00  
ATOM 2778 2HH1 ARG 179 55.687 21.851 64.334 0.00 0.00  
ATOM 2779 NH2 ARG 179 58.297 23.092 62.955 0.00 0.00  
ATOM 2780 1HH2 ARG 179 58.724 23.661 63.671 0.00 0.00  
ATOM 2781 2HH2 ARG 179 58.905 23.052 62.150 0.00 0.00

ATOM	2782	C	ARG	179	54.518	18.486	58.977	0.00	0.00
ATOM	2783	O	ARG	179	54.455	19.206	58.023	0.00	0.00
ATOM	2784	N	GLU	180	53.498	18.156	59.723	0.00	0.00
ATOM	2785	H	GLU	180	53.611	17.501	60.484	0.00	0.00
ATOM	2786	CA	GLU	180	52.094	18.487	59.459	0.00	0.00
ATOM	2787	HA	GLU	180	52.064	18.676	58.386	0.00	0.00
ATOM	2788	CB	GLU	180	51.251	17.366	59.925	0.00	0.00
ATOM	2789	HB2	GLU	180	51.423	16.464	59.337	0.00	0.00
ATOM	2790	HB3	GLU	180	51.455	16.969	60.920	0.00	0.00
ATOM	2791	CG	GLU	180	49.742	17.554	59.771	0.00	0.00
ATOM	2792	HG2	GLU	180	49.459	18.450	60.323	0.00	0.00
ATOM	2793	HG3	GLU	180	49.568	17.682	58.703	0.00	0.00
ATOM	2794	CD	GLU	180	49.026	16.449	60.510	0.00	0.00
ATOM	2795	OE1	GLU	180	48.616	15.460	59.900	0.00	0.00
ATOM	2796	OE2	GLU	180	48.801	16.612	61.722	0.00	0.00
ATOM	2797	C	GLU	180	51.863	19.733	60.260	0.00	0.00
ATOM	2798	O	GLU	180	52.279	19.865	61.402	0.00	0.00
ATOM	2799	N	VAL	181	51.064	20.572	59.636	0.00	0.00
ATOM	2800	H	VAL	181	50.679	20.447	58.711	0.00	0.00
ATOM	2801	CA	VAL	181	50.618	21.883	60.123	0.00	0.00
ATOM	2802	HA	VAL	181	50.831	21.932	61.191	0.00	0.00
ATOM	2803	CB	VAL	181	51.358	23.106	59.548	0.00	0.00
ATOM	2804	HB	VAL	181	50.837	23.983	59.931	0.00	0.00
ATOM	2805	CG1	VAL	181	52.878	23.074	59.892	0.00	0.00
ATOM	2806	1HG1	VAL	181	53.393	23.931	59.459	0.00	0.00
ATOM	2807	2HG1	VAL	181	52.818	23.173	60.976	0.00	0.00

ATOM	2808	3HG1	VAL	181	53.369	22.159	59.560	0.00	0.00
ATOM	2809	CG2	VAL	181	51.364	23.200	58.069	0.00	0.00
ATOM	2810	1HG2	VAL	181	51.705	24.210	57.840	0.00	0.00
ATOM	2811	2HG2	VAL	181	52.033	22.392	57.773	0.00	0.00
ATOM	2812	3HG2	VAL	181	50.338	23.185	57.701	0.00	0.00
ATOM	2813	C	VAL	181	49.091	22.018	59.883	0.00	0.00
ATOM	2814	O	VAL	181	48.534	21.504	58.927	0.00	0.00
ATOM	2815	N	GLU	182	48.465	22.659	60.885	0.00	0.00
ATOM	2816	H	GLU	182	48.968	22.964	61.706	0.00	0.00
ATOM	2817	CA	GLU	182	47.101	23.216	60.793	0.00	0.00
ATOM	2818	HA	GLU	182	46.554	22.590	60.088	0.00	0.00
ATOM	2819	CB	GLU	182	46.461	22.979	62.164	0.00	0.00
ATOM	2820	HB2	GLU	182	46.843	22.048	62.584	0.00	0.00
ATOM	2821	HB3	GLU	182	46.673	23.877	62.744	0.00	0.00
ATOM	2822	CG	GLU	182	44.974	22.780	61.883	0.00	0.00
ATOM	2823	HG2	GLU	182	44.576	23.671	61.398	0.00	0.00
ATOM	2824	HG3	GLU	182	44.787	21.911	61.252	0.00	0.00
ATOM	2825	CD	GLU	182	44.184	22.600	63.242	0.00	0.00
ATOM	2826	OE1	GLU	182	44.245	23.514	64.166	0.00	0.00
ATOM	2827	OE2	GLU	182	43.389	21.654	63.376	0.00	0.00
ATOM	2828	C	GLU	182	47.107	24.656	60.233	0.00	0.00
ATOM	2829	O	GLU	182	47.957	25.491	60.616	0.00	0.00
ATOM	2830	N	LEU	183	46.185	24.951	59.333	0.00	0.00
ATOM	2831	H	LEU	183	45.493	24.229	59.191	0.00	0.00
ATOM	2832	CA	LEU	183	45.948	26.171	58.622	0.00	0.00
ATOM	2833	HA	LEU	183	46.792	26.796	58.911	0.00	0.00



ATOM	2834	CB	LEU	183	46.094	25.971	57.077	0.00	0.00
ATOM	2835	HB2	LEU	183	45.286	25.305	56.774	0.00	0.00
ATOM	2836	HB3	LEU	183	45.908	26.936	56.605	0.00	0.00
ATOM	2837	CG	LEU	183	47.406	25.368	56.504	0.00	0.00
ATOM	2838	HG	LEU	183	47.523	24.364	56.913	0.00	0.00
ATOM	2839	CD1	LEU	183	47.388	25.466	54.978	0.00	0.00
ATOM	2840	1HD1	LEU	183	48.352	25.193	54.551	0.00	0.00
ATOM	2841	2HD1	LEU	183	46.650	24.777	54.567	0.00	0.00
ATOM	2842	3HD1	LEU	183	47.219	26.508	54.705	0.00	0.00
ATOM	2843	CD2	LEU	183	48.656	26.136	56.932	0.00	0.00
ATOM	2844	1HD2	LEU	183	49.546	26.048	56.310	0.00	0.00
ATOM	2845	2HD2	LEU	183	48.375	27.178	57.090	0.00	0.00
ATOM	2846	3HD2	LEU	183	48.887	25.822	57.950	0.00	0.00
ATOM	2847	C	LEU	183	44.686	26.759	59.025	0.00	0.00
ATOM	2848	O	LEU	183	43.830	26.130	59.628	0.00	0.00
ATOM	2849	N	VAL	184	44.439	28.052	58.678	0.00	0.00
ATOM	2850	H	VAL	184	45.139	28.395	58.037	0.00	0.00
ATOM	2851	CA	VAL	184	43.230	28.841	59.036	0.00	0.00
ATOM	2852	HA	VAL	184	42.434	28.097	59.069	0.00	0.00
ATOM	2853	CB	VAL	184	43.306	29.557	60.408	0.00	0.00
ATOM	2854	HB	VAL	184	43.354	28.868	61.252	0.00	0.00
ATOM	2855	CG1	VAL	184	44.333	30.723	60.592	0.00	0.00
ATOM	2856	1HG1	VAL	184	44.064	31.399	59.780	0.00	0.00
ATOM	2857	2HG1	VAL	184	44.220	31.167	61.581	0.00	0.00
ATOM	2858	3HG1	VAL	184	45.308	30.251	60.472	0.00	0.00
ATOM	2859	CG2	VAL	184	41.887	30.144	60.638	0.00	0.00

ATOM	2860	1HG2	VAL	184	41.098	29.406	60.496	0.00	0.00
ATOM	2861	2HG2	VAL	184	42.038	30.519	61.650	0.00	0.00
ATOM	2862	3HG2	VAL	184	41.637	31.023	60.043	0.00	0.00
ATOM	2863	C	VAL	184	42.823	29.789	57.839	0.00	0.00
ATOM	2864	O	VAL	184	43.683	30.400	57.147	0.00	0.00
ATOM	2865	N	ALA	185	41.537	30.020	57.535	0.00	0.00
ATOM	2866	H	ALA	185	40.793	29.505	57.983	0.00	0.00
ATOM	2867	CA	ALA	185	41.114	30.746	56.415	0.00	0.00
ATOM	2868	HA	ALA	185	41.628	30.430	55.507	0.00	0.00
ATOM	2869	CB	ALA	185	39.587	30.465	56.207	0.00	0.00
ATOM	2870	HB1	ALA	185	39.060	30.800	57.100	0.00	0.00
ATOM	2871	HB2	ALA	185	39.173	30.988	55.345	0.00	0.00
ATOM	2872	HB3	ALA	185	39.439	29.388	56.139	0.00	0.00
ATOM	2873	C	ALA	185	41.446	32.245	56.618	0.00	0.00
ATOM	2874	O	ALA	185	41.571	32.849	57.702	0.00	0.00
ATOM	2875	N	PHE	186	41.304	32.959	55.538	0.00	0.00
ATOM	2876	H	PHE	186	41.128	32.549	54.632	0.00	0.00
ATOM	2877	CA	PHE	186	41.109	34.424	55.645	0.00	0.00
ATOM	2878	HA	PHE	186	41.704	34.791	56.481	0.00	0.00
ATOM	2879	CB	PHE	186	41.506	35.211	54.332	0.00	0.00
ATOM	2880	HB2	PHE	186	40.821	34.985	53.515	0.00	0.00
ATOM	2881	HB3	PHE	186	41.594	36.276	54.550	0.00	0.00
ATOM	2882	CG	PHE	186	42.924	34.905	53.944	0.00	0.00
ATOM	2883	CD1	PHE	186	43.238	34.287	52.659	0.00	0.00
ATOM	2884	HD1	PHE	186	42.451	34.212	51.923	0.00	0.00
ATOM	2885	CE1	PHE	186	44.601	33.909	52.349	0.00	0.00

ATOM	2886	HE1	PHE	186	44.856	33.469	51.396	0.00	0.00
ATOM	2887	CZ	PHE	186	45.622	34.052	53.305	0.00	0.00
ATOM	2888	HZ	PHE	186	46.679	33.887	53.156	0.00	0.00
ATOM	2889	CE2	PHE	186	45.273	34.553	54.630	0.00	0.00
ATOM	2890	HE2	PHE	186	46.068	34.768	55.329	0.00	0.00
ATOM	2891	CD2	PHE	186	43.952	34.929	54.912	0.00	0.00
ATOM	2892	HD2	PHE	186	43.735	35.388	55.866	0.00	0.00
ATOM	2893	C	PHE	186	39.603	34.997	56.032	0.00	0.00
ATOM	2894	O	PHE	186	38.543	34.392	55.773	0.00	0.00
ATOM	2895	N	ALA	187	39.701	36.210	56.644	0.00	0.00
ATOM	2896	H	ALA	187	40.559	36.718	56.803	0.00	0.00
ATOM	2897	CA	ALA	187	38.535	37.085	56.925	0.00	0.00
ATOM	2898	HA	ALA	187	37.721	36.594	56.392	0.00	0.00
ATOM	2899	CB	ALA	187	38.244	37.136	58.452	0.00	0.00
ATOM	2900	HB1	ALA	187	37.445	37.835	58.702	0.00	0.00
ATOM	2901	HB2	ALA	187	38.008	36.134	58.810	0.00	0.00
ATOM	2902	HB3	ALA	187	39.187	37.426	58.916	0.00	0.00
ATOM	2903	C	ALA	187	38.806	38.539	56.372	0.00	0.00
ATOM	2904	O	ALA	187	39.642	38.677	55.450	0.00	0.00
ATOM	2905	N	GLY	188	38.095	39.529	56.845	0.00	0.00
ATOM	2906	H	GLY	188	37.300	39.295	57.423	0.00	0.00
ATOM	2907	CA	GLY	188	38.009	40.874	56.231	0.00	0.00
ATOM	2908	HA2	GLY	188	37.381	41.474	56.889	0.00	0.00
ATOM	2909	HA3	GLY	188	39.018	41.281	56.164	0.00	0.00
ATOM	2910	C	GLY	188	37.377	40.896	54.826	0.00	0.00
ATOM	2911	O	GLY	188	36.398	40.166	54.636	0.00	0.00

ATOM	2912	N	HIE	189	37.994	41.636	53.871	0.00	0.00
ATOM	2913	H	HIE	189	38.876	42.057	54.126	0.00	0.00
ATOM	2914	CA	HIE	189	37.526	41.544	52.466	0.00	0.00
ATOM	2915	HA	HIE	189	36.448	41.383	52.454	0.00	0.00
ATOM	2916	CB	HIE	189	37.561	42.899	51.859	0.00	0.00
ATOM	2917	HB2	HIE	189	37.145	43.640	52.542	0.00	0.00
ATOM	2918	HB3	HIE	189	38.634	43.057	51.749	0.00	0.00
ATOM	2919	CG	HIE	189	36.917	43.058	50.460	0.00	0.00
ATOM	2920	ND1	HIE	189	35.587	43.143	50.201	0.00	0.00
ATOM	2921	CE1	HIE	189	35.423	43.270	48.830	0.00	0.00
ATOM	2922	HE1	HIE	189	34.464	43.314	48.335	0.00	0.00
ATOM	2923	NE2	HIE	189	36.679	43.424	48.323	0.00	0.00
ATOM	2924	HE2	HIE	189	36.937	43.723	47.393	0.00	0.00
ATOM	2925	CD2	HIE	189	37.581	43.357	49.298	0.00	0.00
ATOM	2926	HD2	HIE	189	38.649	43.504	49.231	0.00	0.00
ATOM	2927	C	HIE	189	37.953	40.373	51.604	0.00	0.00
ATOM	2928	O	HIE	189	37.575	40.226	50.469	0.00	0.00
ATOM	2929	N	ARG	190	38.499	39.431	52.263	0.00	0.00
ATOM	2930	H	ARG	190	38.737	39.634	53.223	0.00	0.00
ATOM	2931	CA	ARG	190	39.050	38.084	51.919	0.00	0.00
ATOM	2932	HA	ARG	190	39.812	37.782	52.637	0.00	0.00
ATOM	2933	CB	ARG	190	37.837	37.111	51.874	0.00	0.00
ATOM	2934	HB2	ARG	190	37.123	37.570	51.190	0.00	0.00
ATOM	2935	HB3	ARG	190	38.135	36.120	51.532	0.00	0.00
ATOM	2936	CG	ARG	190	37.194	36.808	53.295	0.00	0.00
ATOM	2937	HG2	ARG	190	37.900	36.269	53.927	0.00	0.00

ATOM	2938	HG3	ARG	190	37.069	37.713	53.889	0.00	0.00
ATOM	2939	CD	ARG	190	35.922	35.913	53.157	0.00	0.00
ATOM	2940	HD2	ARG	190	35.255	36.342	52.409	0.00	0.00
ATOM	2941	HD3	ARG	190	36.243	34.949	52.762	0.00	0.00
ATOM	2942	NE	ARG	190	35.202	35.613	54.414	0.00	0.00
ATOM	2943	HE	ARG	190	34.896	36.429	54.924	0.00	0.00
ATOM	2944	CZ	ARG	190	34.969	34.462	55.022	0.00	0.00
ATOM	2945	NH1	ARG	190	35.327	33.389	54.450	0.00	0.00
ATOM	2946	1HH1	ARG	190	35.205	32.558	55.010	0.00	0.00
ATOM	2947	2HH1	ARG	190	35.474	33.312	53.454	0.00	0.00
ATOM	2948	NH2	ARG	190	34.310	34.419	56.162	0.00	0.00
ATOM	2949	1HH2	ARG	190	33.933	33.561	56.541	0.00	0.00
ATOM	2950	2HH2	ARG	190	34.264	35.253	56.730	0.00	0.00
ATOM	2951	C	ARG	190	39.756	37.994	50.551	0.00	0.00
ATOM	2952	O	ARG	190	39.576	37.028	49.786	0.00	0.00
ATOM	2953	N	ALA	191	40.528	38.964	50.185	0.00	0.00
ATOM	2954	H	ALA	191	40.803	39.709	50.809	0.00	0.00
ATOM	2955	CA	ALA	191	41.047	38.907	48.820	0.00	0.00
ATOM	2956	HA	ALA	191	40.343	38.682	48.019	0.00	0.00
ATOM	2957	CB	ALA	191	41.568	40.293	48.499	0.00	0.00
ATOM	2958	HB1	ALA	191	42.133	40.279	47.567	0.00	0.00
ATOM	2959	HB2	ALA	191	40.800	41.060	48.395	0.00	0.00
ATOM	2960	HB3	ALA	191	42.217	40.583	49.326	0.00	0.00
ATOM	2961	C	ALA	191	42.163	37.884	48.732	0.00	0.00
ATOM	2962	O	ALA	191	43.211	37.971	49.440	0.00	0.00
ATOM	2963	N	VAL	192	42.004	36.837	47.932	0.00	0.00

ATOM	2964	H	VAL	192	41.064	36.802	47.564	0.00	0.00
ATOM	2965	CA	VAL	192	43.026	35.790	47.793	0.00	0.00
ATOM	2966	HA	VAL	192	43.297	35.397	48.773	0.00	0.00
ATOM	2967	CB	VAL	192	42.440	34.550	47.072	0.00	0.00
ATOM	2968	HB	VAL	192	43.162	33.740	46.969	0.00	0.00
ATOM	2969	CG1	VAL	192	41.351	33.961	47.961	0.00	0.00
ATOM	2970	1HG1	VAL	192	41.028	33.024	47.506	0.00	0.00
ATOM	2971	2HG1	VAL	192	41.784	33.773	48.944	0.00	0.00
ATOM	2972	3HG1	VAL	192	40.407	34.503	48.023	0.00	0.00
ATOM	2973	CG2	VAL	192	41.810	34.727	45.652	0.00	0.00
ATOM	2974	1HG2	VAL	192	42.639	35.065	45.031	0.00	0.00
ATOM	2975	2HG2	VAL	192	41.397	33.799	45.257	0.00	0.00
ATOM	2976	3HG2	VAL	192	40.934	35.369	45.750	0.00	0.00
ATOM	2977	C	VAL	192	44.309	36.299	47.047	0.00	0.00
ATOM	2978	O	VAL	192	45.328	35.693	47.266	0.00	0.00
ATOM	2979	N	PHE	193	44.310	37.307	46.171	0.00	0.00
ATOM	2980	H	PHE	193	43.441	37.815	46.088	0.00	0.00
ATOM	2981	CA	PHE	193	45.469	37.881	45.502	0.00	0.00
ATOM	2982	HA	PHE	193	46.254	37.126	45.469	0.00	0.00
ATOM	2983	CB	PHE	193	45.035	38.254	44.101	0.00	0.00
ATOM	2984	HB2	PHE	193	44.784	39.312	44.172	0.00	0.00
ATOM	2985	HB3	PHE	193	45.921	38.216	43.468	0.00	0.00
ATOM	2986	CG	PHE	193	43.839	37.530	43.511	0.00	0.00
ATOM	2987	CD1	PHE	193	42.636	38.282	43.230	0.00	0.00
ATOM	2988	HD1	PHE	193	42.584	39.348	43.394	0.00	0.00
ATOM	2989	CE1	PHE	193	41.587	37.665	42.658	0.00	0.00

ATOM	2990	HE1	PHE	193	40.658	38.190	42.491	0.00	0.00
ATOM	2991	CZ	PHE	193	41.666	36.297	42.407	0.00	0.00
ATOM	2992	HZ	PHE	193	40.854	35.750	41.952	0.00	0.00
ATOM	2993	CE2	PHE	193	42.857	35.545	42.495	0.00	0.00
ATOM	2994	HE2	PHE	193	42.926	34.561	42.054	0.00	0.00
ATOM	2995	CD2	PHE	193	43.889	36.144	43.206	0.00	0.00
ATOM	2996	HD2	PHE	193	44.774	35.608	43.515	0.00	0.00
ATOM	2997	C	PHE	193	45.969	39.121	46.307	0.00	0.00
ATOM	2998	O	PHE	193	45.107	39.783	46.767	0.00	0.00
ATOM	2999	N	GLY	194	47.288	39.414	46.421	0.00	0.00
ATOM	3000	H	GLY	194	47.875	38.760	45.923	0.00	0.00
ATOM	3001	CA	GLY	194	48.021	40.297	47.351	0.00	0.00
ATOM	3002	HA2	GLY	194	48.229	41.298	46.973	0.00	0.00
ATOM	3003	HA3	GLY	194	47.342	40.522	48.174	0.00	0.00
ATOM	3004	C	GLY	194	49.392	39.754	47.832	0.00	0.00
ATOM	3005	O	GLY	194	50.226	40.589	48.166	0.00	0.00
ATOM	3006	N	PHE	195	49.635	38.442	47.791	0.00	0.00
ATOM	3007	H	PHE	195	48.829	37.861	47.608	0.00	0.00
ATOM	3008	CA	PHE	195	50.766	37.714	48.391	0.00	0.00
ATOM	3009	HA	PHE	195	51.174	38.312	49.206	0.00	0.00
ATOM	3010	CB	PHE	195	50.200	36.520	48.981	0.00	0.00
ATOM	3011	HB2	PHE	195	49.925	35.755	48.256	0.00	0.00
ATOM	3012	HB3	PHE	195	51.010	35.983	49.475	0.00	0.00
ATOM	3013	CG	PHE	195	49.063	36.729	50.014	0.00	0.00
ATOM	3014	CD1	PHE	195	47.694	36.594	49.756	0.00	0.00
ATOM	3015	HD1	PHE	195	47.259	36.446	48.778	0.00	0.00

ATOM	3016	CE1	PHE	195	46.799	36.819	50.764	0.00	0.00
ATOM	3017	HE1	PHE	195	45.772	36.643	50.482	0.00	0.00
ATOM	3018	CZ	PHE	195	47.220	37.204	52.096	0.00	0.00
ATOM	3019	HZ	PHE	195	46.559	37.267	52.948	0.00	0.00
ATOM	3020	CE2	PHE	195	48.588	37.335	52.330	0.00	0.00
ATOM	3021	HE2	PHE	195	48.876	37.433	53.366	0.00	0.00
ATOM	3022	CD2	PHE	195	49.514	36.988	51.342	0.00	0.00
ATOM	3023	HD2	PHE	195	50.555	36.867	51.605	0.00	0.00
ATOM	3024	C	PHE	195	51.991	37.421	47.512	0.00	0.00
ATOM	3025	O	PHE	195	53.178	37.379	47.981	0.00	0.00
ATOM	3026	N	ARG	196	51.766	37.331	46.196	0.00	0.00
ATOM	3027	H	ARG	196	50.811	37.463	45.893	0.00	0.00
ATOM	3028	CA	ARG	196	52.812	37.157	45.193	0.00	0.00
ATOM	3029	HA	ARG	196	53.688	37.744	45.469	0.00	0.00
ATOM	3030	CB	ARG	196	53.217	35.642	45.093	0.00	0.00
ATOM	3031	HB2	ARG	196	53.437	35.144	46.038	0.00	0.00
ATOM	3032	HB3	ARG	196	52.514	35.136	44.431	0.00	0.00
ATOM	3033	CG	ARG	196	54.586	35.543	44.385	0.00	0.00
ATOM	3034	HG2	ARG	196	54.573	36.108	43.453	0.00	0.00
ATOM	3035	HG3	ARG	196	55.416	35.869	45.012	0.00	0.00
ATOM	3036	CD	ARG	196	54.948	34.039	44.130	0.00	0.00
ATOM	3037	HD2	ARG	196	55.073	33.564	45.103	0.00	0.00
ATOM	3038	HD3	ARG	196	54.073	33.553	43.698	0.00	0.00
ATOM	3039	NE	ARG	196	56.129	33.969	43.204	0.00	0.00
ATOM	3040	HE	ARG	196	56.050	34.053	42.201	0.00	0.00
ATOM	3041	CZ	ARG	196	57.386	33.657	43.635	0.00	0.00



ATOM	3042	NH1	ARG	196	58.257	33.502	42.674	0.00	0.00
ATOM	3043	1HH1	ARG	196	59.242	33.457	42.892	0.00	0.00
ATOM	3044	2HH1	ARG	196	57.915	33.698	41.744	0.00	0.00
ATOM	3045	NH2	ARG	196	57.861	33.616	44.831	0.00	0.00
ATOM	3046	1HH2	ARG	196	58.808	33.294	44.971	0.00	0.00
ATOM	3047	2HH2	ARG	196	57.233	33.563	45.620	0.00	0.00
ATOM	3048	C	ARG	196	52.350	37.567	43.817	0.00	0.00
ATOM	3049	O	ARG	196	53.168	38.027	43.080	0.00	0.00
ATOM	3050	N	GLY	197	51.032	37.411	43.429	0.00	0.00
ATOM	3051	H	GLY	197	50.406	36.928	44.058	0.00	0.00
ATOM	3052	CA	GLY	197	50.417	37.998	42.232	0.00	0.00
ATOM	3053	HA2	GLY	197	49.339	37.841	42.288	0.00	0.00
ATOM	3054	HA3	GLY	197	50.410	39.086	42.311	0.00	0.00
ATOM	3055	C	GLY	197	50.967	37.481	40.854	0.00	0.00
ATOM	3056	O	GLY	197	50.624	38.043	39.776	0.00	0.00
ATOM	3057	N	GLU	198	51.635	36.342	40.886	0.00	0.00
ATOM	3058	H	GLU	198	51.869	35.947	41.785	0.00	0.00
ATOM	3059	CA	GLU	198	52.317	35.879	39.717	0.00	0.00
ATOM	3060	HA	GLU	198	52.934	36.668	39.286	0.00	0.00
ATOM	3061	CB	GLU	198	53.255	34.719	40.255	0.00	0.00
ATOM	3062	HB2	GLU	198	53.471	34.866	41.313	0.00	0.00
ATOM	3063	HB3	GLU	198	52.578	33.871	40.354	0.00	0.00
ATOM	3064	CG	GLU	198	54.412	34.379	39.337	0.00	0.00
ATOM	3065	HG2	GLU	198	54.133	33.761	38.483	0.00	0.00
ATOM	3066	HG3	GLU	198	54.960	35.247	38.971	0.00	0.00
ATOM	3067	CD	GLU	198	55.328	33.490	40.071	0.00	0.00

ATOM	3068	OE1	GLU	198	54.869	32.348	40.394	0.00	0.00
ATOM	3069	OE2	GLU	198	56.414	33.888	40.578	0.00	0.00
ATOM	3070	C	GLU	198	51.308	35.332	38.742	0.00	0.00
ATOM	3071	O	GLU	198	51.528	35.374	37.523	0.00	0.00
ATOM	3072	N	VAL	199	50.141	34.826	39.187	0.00	0.00
ATOM	3073	H	VAL	199	50.060	34.863	40.193	0.00	0.00
ATOM	3074	CA	VAL	199	48.895	34.578	38.479	0.00	0.00
ATOM	3075	HA	VAL	199	48.891	35.177	37.569	0.00	0.00
ATOM	3076	CB	VAL	199	48.753	33.046	38.098	0.00	0.00
ATOM	3077	HB	VAL	199	47.702	32.968	37.817	0.00	0.00
ATOM	3078	CG1	VAL	199	49.599	32.708	36.850	0.00	0.00
ATOM	3079	1HG1	VAL	199	50.622	32.569	37.198	0.00	0.00
ATOM	3080	2HG1	VAL	199	49.204	31.823	36.349	0.00	0.00
ATOM	3081	3HG1	VAL	199	49.543	33.448	36.052	0.00	0.00
ATOM	3082	CG2	VAL	199	49.104	32.122	39.271	0.00	0.00
ATOM	3083	1HG2	VAL	199	48.423	32.319	40.099	0.00	0.00
ATOM	3084	2HG2	VAL	199	48.988	31.119	38.862	0.00	0.00
ATOM	3085	3HG2	VAL	199	50.160	32.170	39.535	0.00	0.00
ATOM	3086	C	VAL	199	47.687	35.193	39.197	0.00	0.00
ATOM	3087	O	VAL	199	47.649	35.234	40.469	0.00	0.00
ATOM	3088	N	MET	200	46.699	35.590	38.399	0.00	0.00
ATOM	3089	H	MET	200	46.848	35.589	37.400	0.00	0.00
ATOM	3090	CA	MET	200	45.396	36.028	39.011	0.00	0.00
ATOM	3091	HA	MET	200	45.389	35.538	39.985	0.00	0.00
ATOM	3092	CB	MET	200	45.383	37.579	39.202	0.00	0.00
ATOM	3093	HB2	MET	200	45.352	38.091	38.240	0.00	0.00

ATOM	3094	HB3	MET	200	44.432	37.872	39.646	0.00	0.00
ATOM	3095	CG	MET	200	46.455	38.111	40.173	0.00	0.00
ATOM	3096	HG2	MET	200	46.512	37.649	41.159	0.00	0.00
ATOM	3097	HG3	MET	200	47.432	38.070	39.691	0.00	0.00
ATOM	3098	SD	MET	200	46.204	39.833	40.603	0.00	0.00
ATOM	3099	CE	MET	200	47.693	40.366	41.451	0.00	0.00
ATOM	3100	HE1	MET	200	47.636	41.419	41.723	0.00	0.00
ATOM	3101	HE2	MET	200	47.819	39.767	42.353	0.00	0.00
ATOM	3102	HE3	MET	200	48.468	40.288	40.689	0.00	0.00
ATOM	3103	C	MET	200	44.147	35.664	38.185	0.00	0.00
ATOM	3104	O	MET	200	44.202	35.770	36.974	0.00	0.00
ATOM	3105	N	GLY	201	43.110	35.302	38.874	0.00	0.00
ATOM	3106	H	GLY	201	43.138	35.271	39.883	0.00	0.00
ATOM	3107	CA	GLY	201	41.940	34.661	38.320	0.00	0.00
ATOM	3108	HA2	GLY	201	41.841	34.920	37.266	0.00	0.00
ATOM	3109	HA3	GLY	201	41.987	33.576	38.416	0.00	0.00
ATOM	3110	C	GLY	201	40.719	35.000	39.104	0.00	0.00
ATOM	3111	O	GLY	201	40.313	34.266	39.993	0.00	0.00
ATOM	3112	N	PRO	202	39.985	36.063	38.704	0.00	0.00
ATOM	3113	CD	PRO	202	40.318	37.296	37.962	0.00	0.00
ATOM	3114	HD2	PRO	202	41.236	37.751	38.333	0.00	0.00
ATOM	3115	HD3	PRO	202	40.377	37.049	36.902	0.00	0.00
ATOM	3116	CG	PRO	202	39.343	38.365	38.275	0.00	0.00
ATOM	3117	HG2	PRO	202	39.783	39.351	38.423	0.00	0.00
ATOM	3118	HG3	PRO	202	38.581	38.436	37.499	0.00	0.00
ATOM	3119	CB	PRO	202	38.647	37.860	39.503	0.00	0.00

ATOM	3120	HB2 PRO	202	39.133	38.292	40.378	0.00	0.00
ATOM	3121	HB3 PRO	202	37.626	38.240	39.471	0.00	0.00
ATOM	3122	CA PRO	202	38.739	36.346	39.459	0.00	0.00
ATOM	3123	HA PRO	202	38.816	36.094	40.517	0.00	0.00
ATOM	3124	C PRO	202	37.487	35.616	38.888	0.00	0.00
ATOM	3125	O PRO	202	37.466	35.271	37.701	0.00	0.00
ATOM	3126	N LEC	203	36.356	35.442	39.702	0.00	0.00
ATOM	3127	H LEC	203	36.368	35.958	40.571	0.00	0.00
ATOM	3128	CA LEC	203	35.094	34.658	39.436	0.00	0.00
ATOM	3129	HA LEC	203	35.323	33.741	38.893	0.00	0.00
ATOM	3130	CB LEC	203	34.559	34.339	40.849	0.00	0.00
ATOM	3131	HB2 LEC	203	34.190	35.235	41.348	0.00	0.00
ATOM	3132	HB3 LEC	203	33.710	33.681	40.661	0.00	0.00
ATOM	3133	CG LEC	203	35.493	33.592	41.888	0.00	0.00
ATOM	3134	HG LEC	203	36.309	34.221	42.243	0.00	0.00
ATOM	3135	CD1 LEC	203	34.752	33.086	43.137	0.00	0.00
ATOM	3136	1HD1 LEC	203	35.418	32.777	43.942	0.00	0.00
ATOM	3137	2HD1 LEC	203	34.239	33.958	43.542	0.00	0.00
ATOM	3138	3HD1 LEC	203	34.062	32.262	42.957	0.00	0.00
ATOM	3139	CD2 LEC	203	36.210	32.300	41.414	0.00	0.00
ATOM	3140	1HD2 LEC	203	36.771	31.707	42.136	0.00	0.00
ATOM	3141	2HD2 LEC	203	35.466	31.634	40.978	0.00	0.00
ATOM	3142	3HD2 LEC	203	36.804	32.484	40.519	0.00	0.00
ATOM	3143	C LEC	203	34.105	35.544	38.549	0.00	0.00
ATOM	3144	O LEC	203	33.303	35.072	37.725	0.00	0.00
ATOM	3145	OXT LEC	203	34.107	36.824	38.741	0.00	0.00

ATOM	3146	N	SEN	204	45.110	27.730	67.293	0.00	0.00
ATOM	3147	H1	SEN	204	45.365	28.700	67.412	0.00	0.00
ATOM	3148	H2	SEN	204	44.109	27.676	67.421	0.00	0.00
ATOM	3149	H3	SEN	204	45.320	27.456	66.344	0.00	0.00
ATOM	3150	CA	SEN	204	45.753	26.952	68.402	0.00	0.00
ATOM	3151	HA	SEN	204	45.574	25.879	68.325	0.00	0.00
ATOM	3152	CB	SEN	204	47.264	27.152	68.341	0.00	0.00
ATOM	3153	HB2	SEN	204	47.682	26.644	69.211	0.00	0.00
ATOM	3154	HB3	SEN	204	47.663	26.600	67.490	0.00	0.00
ATOM	3155	OG	SEN	204	47.651	28.527	68.400	0.00	0.00
ATOM	3156	HG	SEN	204	48.334	28.597	69.072	0.00	0.00
ATOM	3157	C	SEN	204	45.319	27.536	69.706	0.00	0.00
ATOM	3158	O	SEN	204	44.630	28.501	69.641	0.00	0.00
ATOM	3159	N	ASN	205	45.629	26.965	70.884	0.00	0.00
ATOM	3160	H	ASN	205	46.165	26.109	70.899	0.00	0.00
ATOM	3161	CA	ASN	205	45.488	27.623	72.201	0.00	0.00
ATOM	3162	HA	ASN	205	45.038	28.594	71.994	0.00	0.00
ATOM	3163	CB	ASN	205	44.444	26.873	73.127	0.00	0.00
ATOM	3164	HB2	ASN	205	44.152	27.665	73.816	0.00	0.00
ATOM	3165	HB3	ASN	205	43.637	26.498	72.498	0.00	0.00
ATOM	3166	CG	ASN	205	44.947	25.740	73.979	0.00	0.00
ATOM	3167	OD1	ASN	205	45.172	25.880	75.169	0.00	0.00
ATOM	3168	ND2	ASN	205	45.209	24.575	73.491	0.00	0.00
ATOM	3169	1HD2	ASN	205	45.551	23.808	74.052	0.00	0.00
ATOM	3170	2HD2	ASN	205	45.229	24.451	72.489	0.00	0.00
ATOM	3171	C	ASN	205	46.849	27.851	72.864	0.00	0.00

ATOM	3172	O	ASN	205	47.813	27.072	72.584	0.00	0.00
ATOM	3173	N	ILE	206	46.880	28.913	73.648	0.00	0.00
ATOM	3174	H	ILE	206	46.044	29.469	73.532	0.00	0.00
ATOM	3175	CA	ILE	206	47.988	29.345	74.533	0.00	0.00
ATOM	3176	HA	ILE	206	48.671	28.497	74.492	0.00	0.00
ATOM	3177	CB	ILE	206	48.657	30.588	73.902	0.00	0.00
ATOM	3178	HB	ILE	206	48.628	30.349	72.839	0.00	0.00
ATOM	3179	CG2	ILE	206	47.985	31.973	74.137	0.00	0.00
ATOM	3180	1HG2	ILE	206	46.996	31.829	73.702	0.00	0.00
ATOM	3181	2HG2	ILE	206	47.921	32.038	75.223	0.00	0.00
ATOM	3182	3HG2	ILE	206	48.517	32.771	73.620	0.00	0.00
ATOM	3183	CG1	ILE	206	50.119	30.711	74.387	0.00	0.00
ATOM	3184	2HG1	ILE	206	50.103	31.102	75.405	0.00	0.00
ATOM	3185	3HG1	ILE	206	50.570	29.720	74.445	0.00	0.00
ATOM	3186	CD1	ILE	206	51.237	31.524	73.532	0.00	0.00
ATOM	3187	1HD1	ILE	206	51.267	31.083	72.536	0.00	0.00
ATOM	3188	2HD1	ILE	206	50.913	32.564	73.487	0.00	0.00
ATOM	3189	3HD1	ILE	206	52.206	31.488	74.029	0.00	0.00
ATOM	3190	C	ILE	206	47.624	29.601	76.066	0.00	0.00
ATOM	3191	O	ILE	206	46.458	29.808	76.321	0.00	0.00
ATOM	3192	N	SER	207	48.624	29.623	76.979	0.00	0.00
ATOM	3193	H	SER	207	49.522	29.356	76.601	0.00	0.00
ATOM	3194	CA	SER	207	48.354	30.027	78.328	0.00	0.00
ATOM	3195	HA	SER	207	47.378	29.581	78.519	0.00	0.00
ATOM	3196	CB	SER	207	49.350	29.365	79.256	0.00	0.00
ATOM	3197	HB2	SER	207	49.125	29.457	80.319	0.00	0.00

ATOM	3198	HB3	SER	207	49.382	28.309	78.986	0.00	0.00
ATOM	3199	OG	SER	207	50.614	29.966	79.027	0.00	0.00
ATOM	3200	HG	SER	207	50.975	29.388	78.351	0.00	0.00
ATOM	3201	C	SER	207	48.306	31.502	78.568	0.00	0.00
ATOM	3202	O	SER	207	48.953	32.267	77.809	0.00	0.00
ATOM	3203	N	ARG	208	47.604	31.896	79.671	0.00	0.00
ATOM	3204	H	ARG	208	47.316	31.163	80.303	0.00	0.00
ATOM	3205	CA	ARG	208	47.436	33.262	80.016	0.00	0.00
ATOM	3206	HA	ARG	208	47.126	33.779	79.108	0.00	0.00
ATOM	3207	CB	ARG	208	46.438	33.448	81.219	0.00	0.00
ATOM	3208	HB2	ARG	208	46.126	32.484	81.619	0.00	0.00
ATOM	3209	HB3	ARG	208	47.013	33.969	81.984	0.00	0.00
ATOM	3210	CG	ARG	208	45.173	34.099	80.752	0.00	0.00
ATOM	3211	HG2	ARG	208	44.654	33.412	80.084	0.00	0.00
ATOM	3212	HG3	ARG	208	45.366	35.012	80.188	0.00	0.00
ATOM	3213	CD	ARG	208	44.255	34.475	81.980	0.00	0.00
ATOM	3214	HD2	ARG	208	44.153	33.524	82.502	0.00	0.00
ATOM	3215	HD3	ARG	208	44.698	35.215	82.647	0.00	0.00
ATOM	3216	NE	ARG	208	42.943	34.959	81.465	0.00	0.00
ATOM	3217	HE	ARG	208	42.270	34.273	81.155	0.00	0.00
ATOM	3218	CZ	ARG	208	42.458	36.198	81.455	0.00	0.00
ATOM	3219	NH1	ARG	208	43.082	37.190	82.101	0.00	0.00
ATOM	3220	1HH1	ARG	208	42.704	38.114	82.250	0.00	0.00
ATOM	3221	2HH1	ARG	208	44.074	37.070	82.248	0.00	0.00
ATOM	3222	NH2	ARG	208	41.395	36.556	80.845	0.00	0.00
ATOM	3223	1HH2	ARG	208	41.133	37.531	80.879	0.00	0.00

ATOM	3224	2HH2	ARG	208	40.708	36.037	80.317	0.00	0.00
ATOM	3225	C	ARG	208	48.799	33.955	80.340	0.00	0.00
ATOM	3226	O	ARG	208	48.925	35.145	80.108	0.00	0.00
ATOM	3227	N	GLN	209	49.859	33.171	80.704	0.00	0.00
ATOM	3228	H	GLN	209	49.621	32.209	80.898	0.00	0.00
ATOM	3229	CA	GLN	209	51.192	33.664	81.119	0.00	0.00
ATOM	3230	HA	GLN	209	51.060	34.636	81.596	0.00	0.00
ATOM	3231	CB	GLN	209	51.909	32.732	82.177	0.00	0.00
ATOM	3232	HB2	GLN	209	51.870	31.663	81.971	0.00	0.00
ATOM	3233	HB3	GLN	209	52.966	32.988	82.247	0.00	0.00
ATOM	3234	CG	GLN	209	51.347	33.020	83.562	0.00	0.00
ATOM	3235	HG2	GLN	209	51.321	34.106	83.643	0.00	0.00
ATOM	3236	HG3	GLN	209	50.301	32.713	83.556	0.00	0.00
ATOM	3237	CD	GLN	209	52.062	32.416	84.714	0.00	0.00
ATOM	3238	OE1	GLN	209	53.114	31.848	84.666	0.00	0.00
ATOM	3239	NE2	GLN	209	51.522	32.722	85.882	0.00	0.00
ATOM	3240	1HE2	GLN	209	51.982	32.506	86.755	0.00	0.00
ATOM	3241	2HE2	GLN	209	50.787	33.414	85.846	0.00	0.00
ATOM	3242	C	GLN	209	52.141	33.878	79.938	0.00	0.00
ATOM	3243	O	GLN	209	52.867	34.886	79.702	0.00	0.00
ATOM	3244	N	ALA	210	52.007	32.952	79.008	0.00	0.00
ATOM	3245	H	ALA	210	51.451	32.127	79.186	0.00	0.00
ATOM	3246	CA	ALA	210	52.643	33.063	77.695	0.00	0.00
ATOM	3247	HA	ALA	210	53.602	33.525	77.931	0.00	0.00
ATOM	3248	CB	ALA	210	52.796	31.737	76.977	0.00	0.00
ATOM	3249	HB1	ALA	210	53.257	31.841	75.994	0.00	0.00



ATOM	3250	HB2	ALA	210	53.325	30.974	77.547	0.00	0.00
ATOM	3251	HB3	ALA	210	51.849	31.220	76.823	0.00	0.00
ATOM	3252	C	ALA	210	51.995	34.089	76.813	0.00	0.00
ATOM	3253	O	ALA	210	52.802	34.814	76.160	0.00	0.00
ATOM	3254	N	TYR	211	50.665	34.328	76.879	0.00	0.00
ATOM	3255	H	TYR	211	50.088	33.666	77.378	0.00	0.00
ATOM	3256	CA	TYR	211	50.055	35.481	76.245	0.00	0.00
ATOM	3257	HA	TYR	211	50.234	35.413	75.172	0.00	0.00
ATOM	3258	CB	TYR	211	48.531	35.382	76.475	0.00	0.00
ATOM	3259	HB2	TYR	211	48.125	34.391	76.270	0.00	0.00
ATOM	3260	HB3	TYR	211	48.310	35.711	77.490	0.00	0.00
ATOM	3261	CG	TYR	211	47.707	36.223	75.513	0.00	0.00
ATOM	3262	CD1	TYR	211	47.308	35.798	74.310	0.00	0.00
ATOM	3263	HD1	TYR	211	47.222	34.752	74.054	0.00	0.00
ATOM	3264	CE1	TYR	211	46.667	36.703	73.383	0.00	0.00
ATOM	3265	HE1	TYR	211	46.222	36.332	72.472	0.00	0.00
ATOM	3266	CZ	TYR	211	46.563	38.053	73.735	0.00	0.00
ATOM	3267	OH	TYR	211	45.948	38.932	72.951	0.00	0.00
ATOM	3268	HH	TYR	211	45.837	38.577	72.066	0.00	0.00
ATOM	3269	CE2	TYR	211	47.076	38.520	74.961	0.00	0.00
ATOM	3270	HE2	TYR	211	47.024	39.574	75.192	0.00	0.00
ATOM	3271	CD2	TYR	211	47.699	37.616	75.817	0.00	0.00
ATOM	3272	HD2	TYR	211	47.980	37.915	76.816	0.00	0.00
ATOM	3273	C	TYR	211	50.744	36.743	76.785	0.00	0.00
ATOM	3274	O	TYR	211	51.024	37.621	75.982	0.00	0.00
ATOM	3275	N	ALA	212	51.026	36.866	78.077	0.00	0.00

ATOM	3276	H	ALA	212	50.848	36.094	78.704	0.00	0.00
ATOM	3277	CA	ALA	212	51.363	38.204	78.643	0.00	0.00
ATOM	3278	HA	ALA	212	50.607	38.904	78.288	0.00	0.00
ATOM	3279	CB	ALA	212	51.232	38.183	80.166	0.00	0.00
ATOM	3280	HB1	ALA	212	52.046	37.530	80.478	0.00	0.00
ATOM	3281	HB2	ALA	212	51.392	39.181	80.574	0.00	0.00
ATOM	3282	HB3	ALA	212	50.245	37.860	80.499	0.00	0.00
ATOM	3283	C	ALA	212	52.767	38.687	78.139	0.00	0.00
ATOM	3284	O	ALA	212	52.882	39.845	77.818	0.00	0.00
ATOM	3285	N	ASP	213	53.727	37.757	77.861	0.00	0.00
ATOM	3286	H	ASP	213	53.586	36.787	78.106	0.00	0.00
ATOM	3287	CA	ASP	213	55.093	38.092	77.311	0.00	0.00
ATOM	3288	HA	ASP	213	55.541	38.958	77.799	0.00	0.00
ATOM	3289	CB	ASP	213	56.052	36.840	77.659	0.00	0.00
ATOM	3290	HB2	ASP	213	55.895	36.557	78.700	0.00	0.00
ATOM	3291	HB3	ASP	213	55.691	36.034	77.020	0.00	0.00
ATOM	3292	CG	ASP	213	57.490	37.087	77.265	0.00	0.00
ATOM	3293	OD1	ASP	213	58.175	36.178	76.726	0.00	0.00
ATOM	3294	OD2	ASP	213	58.070	38.021	77.818	0.00	0.00
ATOM	3295	C	ASP	213	55.091	38.192	75.687	0.00	0.00
ATOM	3296	O	ASP	213	56.098	38.628	75.123	0.00	0.00
ATOM	3297	N	MET	214	54.008	37.782	75.065	0.00	0.00
ATOM	3298	H	MET	214	53.177	37.640	75.622	0.00	0.00
ATOM	3299	CA	MET	214	53.758	37.976	73.710	0.00	0.00
ATOM	3300	HA	MET	214	54.735	38.180	73.274	0.00	0.00
ATOM	3301	CB	MET	214	53.283	36.672	73.034	0.00	0.00

ATOM	3302	HB2	MET	214	52.200	36.548	73.031	0.00	0.00
ATOM	3303	HB3	MET	214	53.554	35.808	73.640	0.00	0.00
ATOM	3304	CG	MET	214	53.730	36.528	71.588	0.00	0.00
ATOM	3305	HG2	MET	214	53.169	37.301	71.064	0.00	0.00
ATOM	3306	HG3	MET	214	54.812	36.648	71.549	0.00	0.00
ATOM	3307	SD	MET	214	53.295	34.938	70.887	0.00	0.00
ATOM	3308	CE	MET	214	53.816	33.705	72.112	0.00	0.00
ATOM	3309	HE1	MET	214	53.115	33.539	72.930	0.00	0.00
ATOM	3310	HE2	MET	214	54.000	32.761	71.599	0.00	0.00
ATOM	3311	HE3	MET	214	54.744	34.078	72.545	0.00	0.00
ATOM	3312	C	MET	214	52.999	39.261	73.233	0.00	0.00
ATOM	3313	O	MET	214	53.389	39.839	72.225	0.00	0.00
ATOM	3314	N	PHE	215	51.922	39.572	73.933	0.00	0.00
ATOM	3315	H	PHE	215	51.848	39.053	74.796	0.00	0.00
ATOM	3316	CA	PHE	215	50.883	40.621	73.587	0.00	0.00
ATOM	3317	HA	PHE	215	51.257	41.211	72.750	0.00	0.00
ATOM	3318	CB	PHE	215	49.612	39.871	73.056	0.00	0.00
ATOM	3319	HB2	PHE	215	49.196	39.265	73.860	0.00	0.00
ATOM	3320	HB3	PHE	215	48.861	40.557	72.664	0.00	0.00
ATOM	3321	CG	PHE	215	49.926	38.883	71.893	0.00	0.00
ATOM	3322	CD1	PHE	215	49.722	37.510	72.046	0.00	0.00
ATOM	3323	HD1	PHE	215	49.256	37.193	72.967	0.00	0.00
ATOM	3324	CE1	PHE	215	50.109	36.551	71.051	0.00	0.00
ATOM	3325	HE1	PHE	215	49.924	35.516	71.300	0.00	0.00
ATOM	3326	CZ	PHE	215	50.641	37.013	69.831	0.00	0.00
ATOM	3327	HZ	PHE	215	50.945	36.298	69.081	0.00	0.00

ATOM	3328	CE2	PHE	215	50.820	38.412	69.657	0.00	0.00
ATOM	3329	HE2	PHE	215	51.090	38.972	68.774	0.00	0.00
ATOM	3330	CD2	PHE	215	50.439	39.335	70.641	0.00	0.00
ATOM	3331	HD2	PHE	215	50.420	40.392	70.418	0.00	0.00
ATOM	3332	C	PHE	215	50.560	41.585	74.731	0.00	0.00
ATOM	3333	O	PHE	215	49.554	42.324	74.657	0.00	0.00
ATOM	3334	N	GLY	216	51.265	41.548	75.883	0.00	0.00
ATOM	3335	H	GLY	216	52.171	41.106	75.951	0.00	0.00
ATOM	3336	CA	GLY	216	50.932	42.118	77.190	0.00	0.00
ATOM	3337	HA2	GLY	216	51.802	42.159	77.845	0.00	0.00
ATOM	3338	HA3	GLY	216	50.656	43.143	76.941	0.00	0.00
ATOM	3339	C	GLY	216	49.657	41.464	77.757	0.00	0.00
ATOM	3340	O	GLY	216	48.938	40.839	77.057	0.00	0.00
ATOM	3341	N	PRO	217	49.408	41.570	79.077	0.00	0.00
ATOM	3342	CD	PRO	217	50.228	42.167	80.101	0.00	0.00
ATOM	3343	HD2	PRO	217	51.152	41.588	80.078	0.00	0.00
ATOM	3344	HD3	PRO	217	50.459	43.227	80.000	0.00	0.00
ATOM	3345	CG	PRO	217	49.542	41.897	81.448	0.00	0.00
ATOM	3346	HG2	PRO	217	50.187	41.521	82.241	0.00	0.00
ATOM	3347	HG3	PRO	217	49.193	42.881	81.762	0.00	0.00
ATOM	3348	CB	PRO	217	48.349	40.998	81.284	0.00	0.00
ATOM	3349	HB2	PRO	217	48.644	40.016	81.652	0.00	0.00
ATOM	3350	HB3	PRO	217	47.453	41.354	81.793	0.00	0.00
ATOM	3351	CA	PRO	217	48.274	40.883	79.740	0.00	0.00
ATOM	3352	HA	PRO	217	48.376	39.814	79.550	0.00	0.00
ATOM	3353	C	PRO	217	46.969	41.249	79.107	0.00	0.00

ATOM	3354	O	PRO	217	46.716	42.301	78.531	0.00	0.00
ATOM	3355	N	THR	218	46.032	40.342	79.214	0.00	0.00
ATOM	3356	H	THR	218	46.314	39.538	79.757	0.00	0.00
ATOM	3357	CA	THR	218	44.687	40.567	78.632	0.00	0.00
ATOM	3358	HA	THR	218	44.720	41.364	77.890	0.00	0.00
ATOM	3359	CB	THR	218	44.243	39.249	77.898	0.00	0.00
ATOM	3360	HB	THR	218	45.149	38.929	77.383	0.00	0.00
ATOM	3361	CG2	THR	218	43.687	38.204	78.824	0.00	0.00
ATOM	3362	1HG2	THR	218	43.625	37.245	78.309	0.00	0.00
ATOM	3363	2HG2	THR	218	44.269	38.086	79.738	0.00	0.00
ATOM	3364	3HG2	THR	218	42.669	38.470	79.109	0.00	0.00
ATOM	3365	OG1	THR	218	43.272	39.520	76.914	0.00	0.00
ATOM	3366	HG1	THR	218	43.535	40.262	76.365	0.00	0.00
ATOM	3367	C	THR	218	43.666	41.082	79.701	0.00	0.00
ATOM	3368	O	THR	218	44.047	41.314	80.850	0.00	0.00
ATOM	3369	N	VAL	219	42.308	41.189	79.410	0.00	0.00
ATOM	3370	H	VAL	219	41.966	40.834	78.528	0.00	0.00
ATOM	3371	CA	VAL	219	41.291	41.532	80.348	0.00	0.00
ATOM	3372	HA	VAL	219	41.521	42.576	80.559	0.00	0.00
ATOM	3373	CB	VAL	219	39.940	41.498	79.557	0.00	0.00
ATOM	3374	HB	VAL	219	40.213	42.246	78.813	0.00	0.00
ATOM	3375	CG1	VAL	219	39.543	40.195	78.920	0.00	0.00
ATOM	3376	1HG1	VAL	219	38.821	40.406	78.131	0.00	0.00
ATOM	3377	2HG1	VAL	219	40.321	39.690	78.348	0.00	0.00
ATOM	3378	3HG1	VAL	219	39.152	39.539	79.697	0.00	0.00
ATOM	3379	CG2	VAL	219	38.945	42.082	80.521	0.00	0.00

ATOM	3380	1HG2	VAL	219	38.864	41.290	81.265	0.00	0.00
ATOM	3381	2HG2	VAL	219	39.181	43.031	81.002	0.00	0.00
ATOM	3382	3HG2	VAL	219	38.063	42.250	79.903	0.00	0.00
ATOM	3383	C	VAL	219	41.286	40.582	81.606	0.00	0.00
ATOM	3384	O	VAL	219	41.298	39.352	81.439	0.00	0.00
ATOM	3385	N	GLY	220	41.357	41.307	82.762	0.00	0.00
ATOM	3386	H	GLY	220	41.387	42.316	82.785	0.00	0.00
ATOM	3387	CA	GLY	220	41.236	40.614	84.054	0.00	0.00
ATOM	3388	HA2	GLY	220	40.720	41.358	84.662	0.00	0.00
ATOM	3389	HA3	GLY	220	40.728	39.651	84.011	0.00	0.00
ATOM	3390	C	GLY	220	42.562	40.351	84.818	0.00	0.00
ATOM	3391	O	GLY	220	42.445	40.036	85.976	0.00	0.00
ATOM	3392	N	ASP	221	43.741	40.444	84.182	0.00	0.00
ATOM	3393	H	ASP	221	43.761	40.796	83.236	0.00	0.00
ATOM	3394	CA	ASP	221	45.044	40.371	84.903	0.00	0.00
ATOM	3395	HA	ASP	221	44.995	39.784	85.820	0.00	0.00
ATOM	3396	CB	ASP	221	46.053	39.520	84.098	0.00	0.00
ATOM	3397	HB2	ASP	221	46.227	39.879	83.084	0.00	0.00
ATOM	3398	HB3	ASP	221	47.074	39.613	84.467	0.00	0.00
ATOM	3399	CG	ASP	221	45.698	38.079	84.068	0.00	0.00
ATOM	3400	OD1	ASP	221	45.504	37.503	85.188	0.00	0.00
ATOM	3401	OD2	ASP	221	45.577	37.479	82.998	0.00	0.00
ATOM	3402	C	ASP	221	45.387	41.808	85.345	0.00	0.00
ATOM	3403	O	ASP	221	44.830	42.802	84.885	0.00	0.00
ATOM	3404	N	LYS	222	46.325	41.992	86.286	0.00	0.00
ATOM	3405	H	LYS	222	46.787	41.141	86.574	0.00	0.00

ATOM	3406	CA	LYS	222	46.698	43.230	86.962	0.00	0.00
ATOM	3407	HA	LYS	222	46.380	44.090	86.371	0.00	0.00
ATOM	3408	CB	LYS	222	45.907	43.428	88.261	0.00	0.00
ATOM	3409	HB2	LYS	222	46.037	44.411	88.713	0.00	0.00
ATOM	3410	HB3	LYS	222	44.837	43.476	88.057	0.00	0.00
ATOM	3411	CG	LYS	222	46.109	42.283	89.315	0.00	0.00
ATOM	3412	HG2	LYS	222	45.756	41.331	88.918	0.00	0.00
ATOM	3413	HG3	LYS	222	47.124	42.132	89.682	0.00	0.00
ATOM	3414	CD	LYS	222	45.264	42.702	90.530	0.00	0.00
ATOM	3415	HD2	LYS	222	45.834	43.466	91.059	0.00	0.00
ATOM	3416	HD3	LYS	222	44.303	43.151	90.281	0.00	0.00
ATOM	3417	CE	LYS	222	44.955	41.563	91.534	0.00	0.00
ATOM	3418	HE2	LYS	222	44.002	41.744	92.030	0.00	0.00
ATOM	3419	HE3	LYS	222	44.902	40.650	90.941	0.00	0.00
ATOM	3420	NZ	LYS	222	45.986	41.344	92.603	0.00	0.00
ATOM	3421	HZ1	LYS	222	45.683	40.632	93.252	0.00	0.00
ATOM	3422	HZ2	LYS	222	46.892	41.118	92.219	0.00	0.00
ATOM	3423	HZ3	LYS	222	46.130	42.170	93.167	0.00	0.00
ATOM	3424	C	LYS	222	48.206	43.395	87.159	0.00	0.00
ATOM	3425	O	LYS	222	48.984	42.428	87.077	0.00	0.00
ATOM	3426	N	VAL	223	48.607	44.655	87.315	0.00	0.00
ATOM	3427	H	VAL	223	47.874	45.324	87.508	0.00	0.00
ATOM	3428	CA	VAL	223	50.021	45.221	87.209	0.00	0.00
ATOM	3429	HA	VAL	223	50.727	44.419	87.427	0.00	0.00
ATOM	3430	CB	VAL	223	50.369	45.624	85.726	0.00	0.00
ATOM	3431	HB	VAL	223	51.456	45.699	85.713	0.00	0.00

ATOM	3432	CG1	VAL	223	50.128	44.452	84.757	0.00	0.00
ATOM	3433	1HG1	VAL	223	49.071	44.190	84.704	0.00	0.00
ATOM	3434	2HG1	VAL	223	50.441	44.734	83.752	0.00	0.00
ATOM	3435	3HG1	VAL	223	50.591	43.604	85.261	0.00	0.00
ATOM	3436	CG2	VAL	223	49.785	46.907	85.173	0.00	0.00
ATOM	3437	1HG2	VAL	223	49.614	47.652	85.950	0.00	0.00
ATOM	3438	2HG2	VAL	223	50.444	47.363	84.434	0.00	0.00
ATOM	3439	3HG2	VAL	223	48.879	46.557	84.678	0.00	0.00
ATOM	3440	C	VAL	223	50.307	46.405	88.151	0.00	0.00
ATOM	3441	O	VAL	223	49.393	47.168	88.439	0.00	0.00
ATOM	3442	N	ARG	224	51.602	46.434	88.622	0.00	0.00
ATOM	3443	H	ARG	224	52.213	45.694	88.306	0.00	0.00
ATOM	3444	CA	ARG	224	52.063	47.362	89.605	0.00	0.00
ATOM	3445	HA	ARG	224	51.250	47.769	90.206	0.00	0.00
ATOM	3446	CB	ARG	224	53.002	46.690	90.647	0.00	0.00
ATOM	3447	HB2	ARG	224	52.421	45.858	91.044	0.00	0.00
ATOM	3448	HB3	ARG	224	53.789	46.310	89.995	0.00	0.00
ATOM	3449	CG	ARG	224	53.426	47.662	91.745	0.00	0.00
ATOM	3450	HG2	ARG	224	54.029	48.475	91.341	0.00	0.00
ATOM	3451	HG3	ARG	224	52.485	48.086	92.096	0.00	0.00
ATOM	3452	CD	ARG	224	54.127	46.869	92.807	0.00	0.00
ATOM	3453	HD2	ARG	224	55.054	46.435	92.433	0.00	0.00
ATOM	3454	HD3	ARG	224	53.487	46.018	93.039	0.00	0.00
ATOM	3455	NE	ARG	224	54.572	47.613	93.936	0.00	0.00
ATOM	3456	HE	ARG	224	54.067	48.475	94.083	0.00	0.00
ATOM	3457	CZ	ARG	224	55.365	47.280	94.940	0.00	0.00



ATOM	3458	NH1	ARG	224	56.043	46.140	95.046	0.00	0.00
ATOM	3459	1HH1	ARG	224	56.593	45.829	95.833	0.00	0.00
ATOM	3460	2HH1	ARG	224	55.828	45.448	94.342	0.00	0.00
ATOM	3461	NH2	ARG	224	55.637	48.147	95.874	0.00	0.00
ATOM	3462	1HH2	ARG	224	56.212	47.948	96.680	0.00	0.00
ATOM	3463	2HH2	ARG	224	55.171	49.040	95.813	0.00	0.00
ATOM	3464	C	ARG	224	52.803	48.580	88.908	0.00	0.00
ATOM	3465	O	ARG	224	53.611	48.443	87.998	0.00	0.00
ATOM	3466	N	LEU	225	52.509	49.783	89.411	0.00	0.00
ATOM	3467	H	LEU	225	52.043	49.811	90.307	0.00	0.00
ATOM	3468	CA	LEU	225	53.021	51.024	88.898	0.00	0.00
ATOM	3469	HA	LEU	225	53.294	51.004	87.843	0.00	0.00
ATOM	3470	CB	LEU	225	52.056	52.278	88.994	0.00	0.00
ATOM	3471	HB2	LEU	225	51.838	52.523	90.034	0.00	0.00
ATOM	3472	HB3	LEU	225	52.519	53.145	88.523	0.00	0.00
ATOM	3473	CG	LEU	225	50.740	51.828	88.392	0.00	0.00
ATOM	3474	HG	LEU	225	50.463	50.876	88.846	0.00	0.00
ATOM	3475	CD1	LEU	225	49.588	52.862	88.591	0.00	0.00
ATOM	3476	1HD1	LEU	225	49.213	52.784	89.612	0.00	0.00
ATOM	3477	2HD1	LEU	225	49.933	53.872	88.372	0.00	0.00
ATOM	3478	3HD1	LEU	225	48.745	52.687	87.922	0.00	0.00
ATOM	3479	CD2	LEU	225	50.853	51.763	86.903	0.00	0.00
ATOM	3480	1HD2	LEU	225	51.552	50.966	86.650	0.00	0.00
ATOM	3481	2HD2	LEU	225	49.905	51.486	86.442	0.00	0.00
ATOM	3482	3HD2	LEU	225	51.258	52.665	86.444	0.00	0.00
ATOM	3483	C	LEU	225	54.321	51.425	89.628	0.00	0.00

ATOM	3484	O	LEU	225	54.224	51.916	90.752	0.00	0.00
ATOM	3485	N	ALA	226	55.455	51.398	88.948	0.00	0.00
ATOM	3486	H	ALA	226	55.361	50.992	88.029	0.00	0.00
ATOM	3487	CA	ALA	226	56.731	51.524	89.658	0.00	0.00
ATOM	3488	HA	ALA	226	57.550	51.208	89.012	0.00	0.00
ATOM	3489	CB	ALA	226	56.994	53.047	89.882	0.00	0.00
ATOM	3490	HB1	ALA	226	57.195	53.598	88.963	0.00	0.00
ATOM	3491	HB2	ALA	226	56.103	53.497	90.319	0.00	0.00
ATOM	3492	HB3	ALA	226	57.856	53.219	90.526	0.00	0.00
ATOM	3493	C	ALA	226	56.965	50.675	90.895	0.00	0.00
ATOM	3494	O	ALA	226	56.570	49.495	90.892	0.00	0.00
ATOM	3495	N	ASP	227	57.635	51.170	91.970	0.00	0.00
ATOM	3496	H	ASP	227	57.695	52.176	91.920	0.00	0.00
ATOM	3497	CA	ASP	227	57.742	50.557	93.311	0.00	0.00
ATOM	3498	HA	ASP	227	57.497	49.496	93.334	0.00	0.00
ATOM	3499	CB	ASP	227	59.213	50.800	93.739	0.00	0.00
ATOM	3500	HB2	ASP	227	59.401	50.127	94.575	0.00	0.00
ATOM	3501	HB3	ASP	227	59.809	50.364	92.937	0.00	0.00
ATOM	3502	CG	ASP	227	59.589	52.263	94.041	0.00	0.00
ATOM	3503	OD1	ASP	227	59.109	53.207	93.380	0.00	0.00
ATOM	3504	OD2	ASP	227	60.450	52.510	94.894	0.00	0.00
ATOM	3505	C	ASP	227	56.679	51.149	94.285	0.00	0.00
ATOM	3506	O	ASP	227	56.874	51.150	95.501	0.00	0.00
ATOM	3507	N	THR	228	55.712	51.881	93.714	0.00	0.00
ATOM	3508	H	THR	228	55.706	51.930	92.705	0.00	0.00
ATOM	3509	CA	THR	228	54.584	52.376	94.618	0.00	0.00

ATOM	3510	HA	THR	228	54.960	52.811	95.544	0.00	0.00
ATOM	3511	CB	THR	228	53.659	53.417	93.900	0.00	0.00
ATOM	3512	HB	THR	228	53.018	53.740	94.721	0.00	0.00
ATOM	3513	CG2	THR	228	54.443	54.470	93.271	0.00	0.00
ATOM	3514	1HG2	THR	228	55.067	54.991	93.997	0.00	0.00
ATOM	3515	2HG2	THR	228	55.044	54.161	92.416	0.00	0.00
ATOM	3516	3HG2	THR	228	53.775	55.226	92.859	0.00	0.00
ATOM	3517	OG1	THR	228	52.866	52.867	92.945	0.00	0.00
ATOM	3518	HG1	THR	228	53.304	52.671	92.114	0.00	0.00
ATOM	3519	C	THR	228	53.692	51.249	95.068	0.00	0.00
ATOM	3520	O	THR	228	53.844	50.155	94.646	0.00	0.00
ATOM	3521	N	GLU	229	52.642	51.527	95.819	0.00	0.00
ATOM	3522	H	GLU	229	52.582	52.461	96.200	0.00	0.00
ATOM	3523	CA	GLU	229	51.720	50.515	96.313	0.00	0.00
ATOM	3524	HA	GLU	229	52.185	49.536	96.205	0.00	0.00
ATOM	3525	CB	GLU	229	51.251	50.819	97.770	0.00	0.00
ATOM	3526	HB2	GLU	229	51.126	51.901	97.819	0.00	0.00
ATOM	3527	HB3	GLU	229	50.257	50.404	97.934	0.00	0.00
ATOM	3528	CG	GLU	229	52.298	50.294	98.792	0.00	0.00
ATOM	3529	HG2	GLU	229	53.212	50.887	98.803	0.00	0.00
ATOM	3530	HG3	GLU	229	51.927	50.563	99.781	0.00	0.00
ATOM	3531	CD	GLU	229	52.440	48.746	98.800	0.00	0.00
ATOM	3532	OE1	GLU	229	53.517	48.271	98.473	0.00	0.00
ATOM	3533	OE2	GLU	229	51.393	48.032	99.082	0.00	0.00
ATOM	3534	C	GLU	229	50.528	50.315	95.368	0.00	0.00
ATOM	3535	O	GLU	229	49.637	49.523	95.676	0.00	0.00

ATOM	3536	N	LEU	230	50.484	51.017	94.220	0.00	0.00
ATOM	3537	H	LEU	230	51.304	51.606	94.182	0.00	0.00
ATOM	3538	CA	LEU	230	49.433	50.944	93.217	0.00	0.00
ATOM	3539	HA	LEU	230	48.483	50.856	93.744	0.00	0.00
ATOM	3540	CB	LEU	230	49.314	52.239	92.357	0.00	0.00
ATOM	3541	HB2	LEU	230	50.160	52.315	91.675	0.00	0.00
ATOM	3542	HB3	LEU	230	48.415	52.120	91.752	0.00	0.00
ATOM	3543	CG	LEU	230	49.316	53.565	93.119	0.00	0.00
ATOM	3544	HG	LEU	230	50.295	53.646	93.591	0.00	0.00
ATOM	3545	CD1	LEU	230	49.171	54.687	92.117	0.00	0.00
ATOM	3546	1HD1	LEU	230	49.349	55.700	92.478	0.00	0.00
ATOM	3547	2HD1	LEU	230	49.819	54.433	91.278	0.00	0.00
ATOM	3548	3HD1	LEU	230	48.143	54.636	91.759	0.00	0.00
ATOM	3549	CD2	LEU	230	48.251	53.696	94.256	0.00	0.00
ATOM	3550	1HD2	LEU	230	47.265	53.522	93.826	0.00	0.00
ATOM	3551	2HD2	LEU	230	48.396	52.891	94.977	0.00	0.00
ATOM	3552	3HD2	LEU	230	48.348	54.695	94.681	0.00	0.00
ATOM	3553	C	LEU	230	49.512	49.724	92.326	0.00	0.00
ATOM	3554	O	LEU	230	50.506	49.447	91.590	0.00	0.00
ATOM	3555	N	TRP	231	48.381	48.948	92.324	0.00	0.00
ATOM	3556	H	TRP	231	47.566	49.277	92.823	0.00	0.00
ATOM	3557	CA	TRP	231	48.148	47.884	91.347	0.00	0.00
ATOM	3558	HA	TRP	231	48.901	47.794	90.564	0.00	0.00
ATOM	3559	CB	TRP	231	48.066	46.571	92.096	0.00	0.00
ATOM	3560	HB2	TRP	231	47.351	46.693	92.910	0.00	0.00
ATOM	3561	HB3	TRP	231	47.660	45.866	91.371	0.00	0.00

ATOM	3562	CG	TRP	231	49.355	45.940	92.577	0.00	0.00
ATOM	3563	CD1	TRP	231	49.959	46.040	93.798	0.00	0.00
ATOM	3564	HD1	TRP	231	49.520	46.677	94.551	0.00	0.00
ATOM	3565	NE1	TRP	231	51.057	45.229	93.855	0.00	0.00
ATOM	3566	HE1	TRP	231	51.521	45.112	94.744	0.00	0.00
ATOM	3567	CE2	TRP	231	51.252	44.478	92.689	0.00	0.00
ATOM	3568	CZ2	TRP	231	52.105	43.404	92.335	0.00	0.00
ATOM	3569	HZ2	TRP	231	52.879	43.126	93.035	0.00	0.00
ATOM	3570	CH2	TRP	231	51.885	42.874	91.042	0.00	0.00
ATOM	3571	HH2	TRP	231	52.559	42.076	90.768	0.00	0.00
ATOM	3572	CZ3	TRP	231	50.903	43.416	90.187	0.00	0.00
ATOM	3573	HZ3	TRP	231	50.735	42.952	89.226	0.00	0.00
ATOM	3574	CE3	TRP	231	50.023	44.328	90.638	0.00	0.00
ATOM	3575	HE3	TRP	231	49.283	44.661	89.926	0.00	0.00
ATOM	3576	CD2	TRP	231	50.140	44.954	91.911	0.00	0.00
ATOM	3577	C	TRP	231	46.812	48.036	90.599	0.00	0.00
ATOM	3578	O	TRP	231	45.708	47.986	91.142	0.00	0.00
ATOM	3579	N	ILE	232	46.886	48.238	89.291	0.00	0.00
ATOM	3580	H	ILE	232	47.750	47.958	88.850	0.00	0.00
ATOM	3581	CA	ILE	232	45.705	48.440	88.372	0.00	0.00
ATOM	3582	HA	ILE	232	44.843	48.716	88.978	0.00	0.00
ATOM	3583	CB	ILE	232	46.075	49.623	87.489	0.00	0.00
ATOM	3584	HB	ILE	232	45.185	49.659	86.861	0.00	0.00
ATOM	3585	CG2	ILE	232	46.313	50.871	88.323	0.00	0.00
ATOM	3586	1HG2	ILE	232	47.109	50.751	89.058	0.00	0.00
ATOM	3587	2HG2	ILE	232	46.396	51.748	87.681	0.00	0.00

ATOM	3588	3HG2	ILE	232	45.404	51.140	88.861	0.00	0.00
ATOM	3589	CG1	ILE	232	47.303	49.443	86.616	0.00	0.00
ATOM	3590	2HG1	ILE	232	48.234	49.444	87.183	0.00	0.00
ATOM	3591	3HG1	ILE	232	47.282	48.485	86.096	0.00	0.00
ATOM	3592	CD1	ILE	232	47.478	50.440	85.450	0.00	0.00
ATOM	3593	1HD1	ILE	232	48.258	50.032	84.807	0.00	0.00
ATOM	3594	2HD1	ILE	232	46.547	50.324	84.895	0.00	0.00
ATOM	3595	3HD1	ILE	232	47.605	51.468	85.790	0.00	0.00
ATOM	3596	C	ILE	232	45.391	47.184	87.661	0.00	0.00
ATOM	3597	O	ILE	232	46.278	46.307	87.458	0.00	0.00
ATOM	3598	N	GLU	233	44.113	46.999	87.290	0.00	0.00
ATOM	3599	H	GLU	233	43.523	47.758	87.601	0.00	0.00
ATOM	3600	CA	GLU	233	43.593	45.821	86.606	0.00	0.00
ATOM	3601	HA	GLU	233	44.359	45.046	86.574	0.00	0.00
ATOM	3602	CB	GLU	233	42.425	45.174	87.418	0.00	0.00
ATOM	3603	HB2	GLU	233	42.835	44.975	88.408	0.00	0.00
ATOM	3604	HB3	GLU	233	41.577	45.858	87.468	0.00	0.00
ATOM	3605	CG	GLU	233	41.894	43.871	86.795	0.00	0.00
ATOM	3606	HG2	GLU	233	41.447	44.217	85.862	0.00	0.00
ATOM	3607	HG3	GLU	233	42.647	43.130	86.527	0.00	0.00
ATOM	3608	CD	GLU	233	40.700	43.312	87.533	0.00	0.00
ATOM	3609	OE1	GLU	233	40.600	43.260	88.813	0.00	0.00
ATOM	3610	OE2	GLU	233	39.760	43.053	86.766	0.00	0.00
ATOM	3611	C	GLU	233	43.242	46.111	85.098	0.00	0.00
ATOM	3612	O	GLU	233	42.879	47.285	84.760	0.00	0.00
ATOM	3613	N	VAL	234	43.440	45.150	84.184	0.00	0.00

ATOM	3614	H	VAL	234	43.920	44.300	84.442	0.00	0.00
ATOM	3615	CA	VAL	234	43.031	45.365	82.797	0.00	0.00
ATOM	3616	HA	VAL	234	43.253	46.392	82.504	0.00	0.00
ATOM	3617	CB	VAL	234	43.847	44.490	81.791	0.00	0.00
ATOM	3618	HB	VAL	234	43.684	43.474	82.149	0.00	0.00
ATOM	3619	CG1	VAL	234	43.371	44.801	80.402	0.00	0.00
ATOM	3620	1HG1	VAL	234	44.006	44.234	79.721	0.00	0.00
ATOM	3621	2HG1	VAL	234	42.340	44.523	80.183	0.00	0.00
ATOM	3622	3HG1	VAL	234	43.369	45.860	80.145	0.00	0.00
ATOM	3623	CG2	VAL	234	45.271	44.957	81.872	0.00	0.00
ATOM	3624	1HG2	VAL	234	45.558	45.021	82.921	0.00	0.00
ATOM	3625	2HG2	VAL	234	45.920	44.187	81.456	0.00	0.00
ATOM	3626	3HG2	VAL	234	45.354	45.896	81.324	0.00	0.00
ATOM	3627	C	VAL	234	41.483	45.279	82.701	0.00	0.00
ATOM	3628	O	VAL	234	40.868	44.180	82.932	0.00	0.00
ATOM	3629	N	GLU	235	40.879	46.408	82.275	0.00	0.00
ATOM	3630	H	GLU	235	41.488	47.213	82.313	0.00	0.00
ATOM	3631	CA	GLU	235	39.442	46.623	82.153	0.00	0.00
ATOM	3632	HA	GLU	235	38.905	46.133	82.966	0.00	0.00
ATOM	3633	CB	GLU	235	39.109	48.170	82.249	0.00	0.00
ATOM	3634	HB2	GLU	235	39.630	48.700	81.452	0.00	0.00
ATOM	3635	HB3	GLU	235	38.064	48.414	82.054	0.00	0.00
ATOM	3636	CG	GLU	235	39.404	48.632	83.662	0.00	0.00
ATOM	3637	HG2	GLU	235	38.667	48.200	84.339	0.00	0.00
ATOM	3638	HG3	GLU	235	40.400	48.291	83.943	0.00	0.00
ATOM	3639	CD	GLU	235	39.258	50.131	83.774	0.00	0.00

ATOM	3640	OE1	GLU	235	39.064	50.832	82.788	0.00	0.00
ATOM	3641	OE2	GLU	235	39.342	50.579	84.881	0.00	0.00
ATOM	3642	C	GLU	235	38.859	46.069	80.870	0.00	0.00
ATOM	3643	O	GLU	235	37.732	45.552	80.943	0.00	0.00
ATOM	3644	N	ASP	236	39.649	46.065	79.759	0.00	0.00
ATOM	3645	H	ASP	236	40.585	46.444	79.732	0.00	0.00
ATOM	3646	CA	ASP	236	39.268	45.368	78.562	0.00	0.00
ATOM	3647	HA	ASP	236	39.042	44.311	78.699	0.00	0.00
ATOM	3648	CB	ASP	236	38.134	46.138	77.828	0.00	0.00
ATOM	3649	HB2	ASP	236	38.393	46.361	76.793	0.00	0.00
ATOM	3650	HB3	ASP	236	37.935	47.124	78.248	0.00	0.00
ATOM	3651	CG	ASP	236	36.854	45.424	77.803	0.00	0.00
ATOM	3652	OD1	ASP	236	35.821	46.065	77.559	0.00	0.00
ATOM	3653	OD2	ASP	236	36.831	44.176	77.930	0.00	0.00
ATOM	3654	C	ASP	236	40.521	45.317	77.658	0.00	0.00
ATOM	3655	O	ASP	236	41.416	46.111	77.761	0.00	0.00
ATOM	3656	N	ASP	237	40.499	44.407	76.657	0.00	0.00
ATOM	3657	H	ASP	237	39.671	43.828	76.664	0.00	0.00
ATOM	3658	CA	ASP	237	41.502	44.150	75.614	0.00	0.00
ATOM	3659	HA	ASP	237	42.308	44.858	75.808	0.00	0.00
ATOM	3660	CB	ASP	237	42.033	42.710	75.903	0.00	0.00
ATOM	3661	HB2	ASP	237	42.327	42.727	76.952	0.00	0.00
ATOM	3662	HB3	ASP	237	41.223	41.984	75.837	0.00	0.00
ATOM	3663	CG	ASP	237	43.306	42.434	75.142	0.00	0.00
ATOM	3664	OD1	ASP	237	43.548	43.145	74.107	0.00	0.00
ATOM	3665	OD2	ASP	237	43.976	41.466	75.454	0.00	0.00



ATOM	3666	C	ASP	237	40.959	44.229	74.212	0.00	0.00
ATOM	3667	O	ASP	237	40.175	43.418	73.788	0.00	0.00
ATOM	3668	N	LEU	238	41.105	45.293	73.511	0.00	0.00
ATOM	3669	H	LEU	238	41.805	45.958	73.807	0.00	0.00
ATOM	3670	CA	LEU	238	40.330	45.637	72.285	0.00	0.00
ATOM	3671	HA	LEU	238	39.335	45.292	72.566	0.00	0.00
ATOM	3672	CB	LEU	238	40.242	47.166	72.167	0.00	0.00
ATOM	3673	HB2	LEU	238	41.213	47.567	72.456	0.00	0.00
ATOM	3674	HB3	LEU	238	40.175	47.356	71.096	0.00	0.00
ATOM	3675	CG	LEU	238	39.202	47.853	72.950	0.00	0.00
ATOM	3676	HG	LEU	238	38.240	47.438	72.652	0.00	0.00
ATOM	3677	CD1	LEU	238	39.243	47.665	74.513	0.00	0.00
ATOM	3678	1HD1	LEU	238	40.304	47.786	74.729	0.00	0.00
ATOM	3679	2HD1	LEU	238	38.622	48.420	74.995	0.00	0.00
ATOM	3680	3HD1	LEU	238	38.892	46.640	74.634	0.00	0.00
ATOM	3681	CD2	LEU	238	39.222	49.368	72.710	0.00	0.00
ATOM	3682	1HD2	LEU	238	38.491	49.890	73.327	0.00	0.00
ATOM	3683	2HD2	LEU	238	40.164	49.836	72.995	0.00	0.00
ATOM	3684	3HD2	LEU	238	38.955	49.547	71.668	0.00	0.00
ATOM	3685	C	LEU	238	40.690	44.852	70.990	0.00	0.00
ATOM	3686	O	LEU	238	40.100	45.107	69.954	0.00	0.00
ATOM	3687	N	THR	239	41.531	43.854	71.100	0.00	0.00
ATOM	3688	H	THR	239	41.599	43.562	72.065	0.00	0.00
ATOM	3689	CA	THR	239	41.975	42.929	70.083	0.00	0.00
ATOM	3690	HA	THR	239	42.092	43.464	69.141	0.00	0.00
ATOM	3691	CB	THR	239	43.353	42.428	70.423	0.00	0.00

ATOM	3692	HB	THR	239	43.835	43.199	71.024	0.00	0.00
ATOM	3693	CG2	THR	239	43.318	41.095	71.245	0.00	0.00
ATOM	3694	1HG2	THR	239	42.871	41.262	72.225	0.00	0.00
ATOM	3695	2HG2	THR	239	42.854	40.333	70.618	0.00	0.00
ATOM	3696	3HG2	THR	239	44.336	40.714	71.330	0.00	0.00
ATOM	3697	OG1	THR	239	44.083	42.242	69.249	0.00	0.00
ATOM	3698	HG1	THR	239	44.965	42.565	69.447	0.00	0.00
ATOM	3699	C	THR	239	41.021	41.786	69.693	0.00	0.00
ATOM	3700	O	THR	239	40.030	41.543	70.332	0.00	0.00
ATOM	3701	N	THR	240	41.429	41.015	68.650	0.00	0.00
ATOM	3702	H	THR	240	42.229	41.392	68.162	0.00	0.00
ATOM	3703	CA	THR	240	40.780	39.812	68.183	0.00	0.00
ATOM	3704	HA	THR	240	39.921	39.512	68.783	0.00	0.00
ATOM	3705	CB	THR	240	40.329	39.977	66.711	0.00	0.00
ATOM	3706	HB	THR	240	41.195	40.349	66.164	0.00	0.00
ATOM	3707	CG2	THR	240	39.841	38.789	66.043	0.00	0.00
ATOM	3708	1HG2	THR	240	39.023	38.232	66.501	0.00	0.00
ATOM	3709	2HG2	THR	240	39.565	39.077	65.029	0.00	0.00
ATOM	3710	3HG2	THR	240	40.704	38.123	66.078	0.00	0.00
ATOM	3711	OG1	THR	240	39.332	41.004	66.717	0.00	0.00
ATOM	3712	HG1	THR	240	38.505	40.572	66.941	0.00	0.00
ATOM	3713	C	THR	240	41.859	38.709	68.201	0.00	0.00
ATOM	3714	O	THR	240	42.912	38.759	67.557	0.00	0.00
ATOM	3715	N	TYR	241	41.689	37.684	69.018	0.00	0.00
ATOM	3716	H	TYR	241	40.759	37.464	69.346	0.00	0.00
ATOM	3717	CA	TYR	241	42.786	36.741	69.376	0.00	0.00

ATOM	3718	HA	TYR	241	43.652	37.306	69.721	0.00	0.00
ATOM	3719	CB	TYR	241	42.426	35.845	70.600	0.00	0.00
ATOM	3720	HB2	TYR	241	41.507	35.321	70.341	0.00	0.00
ATOM	3721	HB3	TYR	241	43.160	35.050	70.733	0.00	0.00
ATOM	3722	CG	TYR	241	42.106	36.648	71.836	0.00	0.00
ATOM	3723	CD1	TYR	241	43.047	37.277	72.650	0.00	0.00
ATOM	3724	HD1	TYR	241	44.103	37.231	72.425	0.00	0.00
ATOM	3725	CE1	TYR	241	42.695	37.801	73.912	0.00	0.00
ATOM	3726	HE1	TYR	241	43.433	38.227	74.576	0.00	0.00
ATOM	3727	CZ	TYR	241	41.332	37.880	74.327	0.00	0.00
ATOM	3728	OH	TYR	241	40.914	38.583	75.403	0.00	0.00
ATOM	3729	HH	TYR	241	41.616	38.927	75.961	0.00	0.00
ATOM	3730	CE2	TYR	241	40.329	37.339	73.415	0.00	0.00
ATOM	3731	HE2	TYR	241	39.270	37.521	73.526	0.00	0.00
ATOM	3732	CD2	TYR	241	40.763	36.606	72.246	0.00	0.00
ATOM	3733	HD2	TYR	241	40.025	36.262	71.536	0.00	0.00
ATOM	3734	C	TYR	241	43.277	35.855	68.191	0.00	0.00
ATOM	3735	O	TYR	241	42.398	35.251	67.535	0.00	0.00
ATOM	3736	N	GLY	242	44.560	35.788	67.883	0.00	0.00
ATOM	3737	H	GLY	242	45.256	36.195	68.491	0.00	0.00
ATOM	3738	CA	GLY	242	45.013	35.091	66.674	0.00	0.00
ATOM	3739	HA2	GLY	242	45.903	34.503	66.899	0.00	0.00
ATOM	3740	HA3	GLY	242	44.305	34.345	66.313	0.00	0.00
ATOM	3741	C	GLY	242	45.170	36.005	65.483	0.00	0.00
ATOM	3742	O	GLY	242	45.419	35.419	64.397	0.00	0.00
ATOM	3743	N	GLU	243	45.176	37.334	65.606	0.00	0.00

ATOM	3744	H	GLU	243	44.998	37.804	66.483	0.00	0.00
ATOM	3745	CA	GLU	243	45.362	38.281	64.505	0.00	0.00
ATOM	3746	HA	GLU	243	46.057	37.915	63.750	0.00	0.00
ATOM	3747	CB	GLU	243	44.020	38.737	64.014	0.00	0.00
ATOM	3748	HB2	GLU	243	43.470	39.095	64.885	0.00	0.00
ATOM	3749	HB3	GLU	243	44.039	39.682	63.472	0.00	0.00
ATOM	3750	CG	GLU	243	43.050	37.784	63.296	0.00	0.00
ATOM	3751	HG2	GLU	243	42.926	36.902	63.925	0.00	0.00
ATOM	3752	HG3	GLU	243	42.087	38.284	63.198	0.00	0.00
ATOM	3753	CD	GLU	243	43.450	37.458	61.886	0.00	0.00
ATOM	3754	OE1	GLU	243	44.413	37.947	61.336	0.00	0.00
ATOM	3755	OE2	GLU	243	42.729	36.606	61.249	0.00	0.00
ATOM	3756	C	GLU	243	46.174	39.530	64.918	0.00	0.00
ATOM	3757	O	GLU	243	46.289	40.511	64.222	0.00	0.00
ATOM	3758	N	GLU	244	46.847	39.467	66.075	0.00	0.00
ATOM	3759	H	GLU	244	46.803	38.587	66.569	0.00	0.00
ATOM	3760	CA	GLU	244	47.610	40.533	66.720	0.00	0.00
ATOM	3761	HA	GLU	244	47.059	41.472	66.663	0.00	0.00
ATOM	3762	CB	GLU	244	47.990	40.123	68.158	0.00	0.00
ATOM	3763	HB2	GLU	244	48.567	39.198	68.148	0.00	0.00
ATOM	3764	HB3	GLU	244	48.674	40.932	68.413	0.00	0.00
ATOM	3765	CG	GLU	244	46.891	39.821	69.177	0.00	0.00
ATOM	3766	HG2	GLU	244	47.342	40.047	70.143	0.00	0.00
ATOM	3767	HG3	GLU	244	46.037	40.497	69.131	0.00	0.00
ATOM	3768	CD	GLU	244	46.470	38.371	69.233	0.00	0.00
ATOM	3769	OE1	GLU	244	46.094	37.948	70.357	0.00	0.00

ATOM	3770	OE2	GLU	244	46.530	37.636	68.226	0.00	0.00
ATOM	3771	C	GLU	244	48.842	40.792	65.938	0.00	0.00
ATOM	3772	O	GLU	244	49.718	39.998	65.834	0.00	0.00
ATOM	3773	N	VAL	245	49.004	42.020	65.424	0.00	0.00
ATOM	3774	H	VAL	245	48.493	42.779	65.851	0.00	0.00
ATOM	3775	CA	VAL	245	50.029	42.397	64.441	0.00	0.00
ATOM	3776	HA	VAL	245	50.398	41.444	64.059	0.00	0.00
ATOM	3777	CB	VAL	245	49.341	43.185	63.281	0.00	0.00
ATOM	3778	HB	VAL	245	50.157	43.349	62.577	0.00	0.00
ATOM	3779	CG1	VAL	245	48.264	42.394	62.486	0.00	0.00
ATOM	3780	1HG1	VAL	245	48.269	42.723	61.447	0.00	0.00
ATOM	3781	2HG1	VAL	245	48.407	41.314	62.441	0.00	0.00
ATOM	3782	3HG1	VAL	245	47.241	42.668	62.744	0.00	0.00
ATOM	3783	CG2	VAL	245	48.668	44.455	63.728	0.00	0.00
ATOM	3784	1HG2	VAL	245	48.038	44.883	62.948	0.00	0.00
ATOM	3785	2HG2	VAL	245	48.072	44.298	64.627	0.00	0.00
ATOM	3786	3HG2	VAL	245	49.425	45.172	64.044	0.00	0.00
ATOM	3787	C	VAL	245	51.223	43.124	65.138	0.00	0.00
ATOM	3788	O	VAL	245	50.962	44.058	65.904	0.00	0.00
ATOM	3789	N	LYS	246	52.483	42.668	64.875	0.00	0.00
ATOM	3790	H	LYS	246	52.675	41.978	64.163	0.00	0.00
ATOM	3791	CA	LYS	246	53.717	43.278	65.348	0.00	0.00
ATOM	3792	HA	LYS	246	53.394	44.271	65.659	0.00	0.00
ATOM	3793	CB	LYS	246	54.124	42.639	66.612	0.00	0.00
ATOM	3794	HB2	LYS	246	54.973	43.149	67.067	0.00	0.00
ATOM	3795	HB3	LYS	246	54.604	41.696	66.353	0.00	0.00

ATOM	3796	CG	LYS	246	53.013	42.444	67.742	0.00	0.00
ATOM	3797	HG2	LYS	246	52.698	43.407	68.142	0.00	0.00
ATOM	3798	HG3	LYS	246	52.100	41.961	67.394	0.00	0.00
ATOM	3799	CD	LYS	246	53.434	41.541	68.823	0.00	0.00
ATOM	3800	HD2	LYS	246	52.614	41.386	69.525	0.00	0.00
ATOM	3801	HD3	LYS	246	53.644	40.533	68.464	0.00	0.00
ATOM	3802	CE	LYS	246	54.671	42.052	69.594	0.00	0.00
ATOM	3803	HE2	LYS	246	55.379	42.304	68.804	0.00	0.00
ATOM	3804	HE3	LYS	246	54.407	42.912	70.209	0.00	0.00
ATOM	3805	NZ	LYS	246	55.235	41.030	70.514	0.00	0.00
ATOM	3806	HZ1	LYS	246	55.695	40.282	70.015	0.00	0.00
ATOM	3807	HZ2	LYS	246	55.895	41.337	71.214	0.00	0.00
ATOM	3808	HZ3	LYS	246	54.413	40.652	70.963	0.00	0.00
ATOM	3809	C	LYS	246	54.803	43.243	64.247	0.00	0.00
ATOM	3810	O	LYS	246	54.723	42.362	63.383	0.00	0.00
ATOM	3811	N	PHE	247	55.781	44.252	64.287	0.00	0.00
ATOM	3812	H	PHE	247	55.855	44.748	65.164	0.00	0.00
ATOM	3813	CA	PHE	247	56.831	44.342	63.251	0.00	0.00
ATOM	3814	HA	PHE	247	56.232	44.192	62.353	0.00	0.00
ATOM	3815	CB	PHE	247	57.246	45.825	63.439	0.00	0.00
ATOM	3816	HB2	PHE	247	56.400	46.507	63.362	0.00	0.00
ATOM	3817	HB3	PHE	247	57.611	46.001	64.451	0.00	0.00
ATOM	3818	CG	PHE	247	58.402	46.150	62.493	0.00	0.00
ATOM	3819	CD1	PHE	247	58.136	46.187	61.145	0.00	0.00
ATOM	3820	HD1	PHE	247	57.116	46.214	60.791	0.00	0.00
ATOM	3821	CE1	PHE	247	59.162	46.197	60.234	0.00	0.00

ATOM	3822	HE1	PHE	247	58.894	46.183	59.188	0.00	0.00
ATOM	3823	CZ	PHE	247	60.514	46.170	60.681	0.00	0.00
ATOM	3824	HZ	PHE	247	61.242	46.238	59.886	0.00	0.00
ATOM	3825	CE2	PHE	247	60.786	46.177	62.046	0.00	0.00
ATOM	3826	HE2	PHE	247	61.796	46.277	62.418	0.00	0.00
ATOM	3827	CD2	PHE	247	59.730	46.165	63.017	0.00	0.00
ATOM	3828	HD2	PHE	247	59.944	46.247	64.073	0.00	0.00
ATOM	3829	C	PHE	247	57.916	43.289	63.246	0.00	0.00
ATOM	3830	O	PHE	247	58.005	42.575	64.250	0.00	0.00
ATOM	3831	N	GLY	248	58.764	43.237	62.224	0.00	0.00
ATOM	3832	H	GLY	248	58.551	43.721	61.364	0.00	0.00
ATOM	3833	CA	GLY	248	59.984	42.364	62.157	0.00	0.00
ATOM	3834	HA2	GLY	248	60.805	42.976	61.783	0.00	0.00
ATOM	3835	HA3	GLY	248	60.197	42.210	63.215	0.00	0.00
ATOM	3836	C	GLY	248	59.769	41.065	61.394	0.00	0.00
ATOM	3837	O	GLY	248	58.671	40.492	61.407	0.00	0.00
ATOM	3838	N	GLY	249	60.846	40.526	60.783	0.00	0.00
ATOM	3839	H	GLY	249	61.708	40.984	61.047	0.00	0.00
ATOM	3840	CA	GLY	249	60.902	39.452	59.775	0.00	0.00
ATOM	3841	HA2	GLY	249	60.493	39.883	58.861	0.00	0.00
ATOM	3842	HA3	GLY	249	61.900	39.123	59.489	0.00	0.00
ATOM	3843	C	GLY	249	60.168	38.184	60.157	0.00	0.00
ATOM	3844	O	GLY	249	59.563	37.488	59.278	0.00	0.00
ATOM	3845	N	GLY	250	60.189	37.915	61.468	0.00	0.00
ATOM	3846	H	GLY	250	60.721	38.551	62.044	0.00	0.00
ATOM	3847	CA	GLY	250	59.653	36.697	62.067	0.00	0.00

ATOM	3848	HA2	GLY	250	59.725	35.833	61.406	0.00	0.00
ATOM	3849	HA3	GLY	250	60.107	36.403	63.014	0.00	0.00
ATOM	3850	C	GLY	250	58.107	36.833	62.303	0.00	0.00
ATOM	3851	O	GLY	250	57.512	35.801	62.556	0.00	0.00
ATOM	3852	N	LYS	251	57.589	38.121	62.343	0.00	0.00
ATOM	3853	H	LYS	251	58.191	38.895	62.104	0.00	0.00
ATOM	3854	CA	LYS	251	56.240	38.424	62.654	0.00	0.00
ATOM	3855	HA	LYS	251	55.845	37.526	63.130	0.00	0.00
ATOM	3856	CB	LYS	251	56.173	39.553	63.822	0.00	0.00
ATOM	3857	HB2	LYS	251	56.693	40.383	63.343	0.00	0.00
ATOM	3858	HB3	LYS	251	55.124	39.715	64.072	0.00	0.00
ATOM	3859	CG	LYS	251	56.974	39.237	65.116	0.00	0.00
ATOM	3860	HG2	LYS	251	56.500	39.818	65.907	0.00	0.00
ATOM	3861	HG3	LYS	251	56.722	38.244	65.487	0.00	0.00
ATOM	3862	CD	LYS	251	58.525	39.461	64.983	0.00	0.00
ATOM	3863	HD2	LYS	251	58.912	38.726	64.277	0.00	0.00
ATOM	3864	HD3	LYS	251	58.772	40.457	64.616	0.00	0.00
ATOM	3865	CE	LYS	251	59.075	39.165	66.328	0.00	0.00
ATOM	3866	HE2	LYS	251	58.894	39.992	67.014	0.00	0.00
ATOM	3867	HE3	LYS	251	58.532	38.291	66.688	0.00	0.00
ATOM	3868	NZ	LYS	251	60.593	39.018	66.427	0.00	0.00
ATOM	3869	HZ1	LYS	251	60.985	39.899	66.126	0.00	0.00
ATOM	3870	HZ2	LYS	251	60.909	38.811	67.363	0.00	0.00
ATOM	3871	HZ3	LYS	251	60.781	38.291	65.751	0.00	0.00
ATOM	3872	C	LYS	251	55.367	38.848	61.424	0.00	0.00
ATOM	3873	O	LYS	251	55.613	38.349	60.335	0.00	0.00



ATOM	3874	N	VAL	252	54.547	39.839	61.544	0.00	0.00
ATOM	3875	H	VAL	252	54.566	40.313	62.436	0.00	0.00
ATOM	3876	CA	VAL	252	53.228	39.985	60.875	0.00	0.00
ATOM	3877	HA	VAL	252	52.957	39.113	60.280	0.00	0.00
ATOM	3878	CB	VAL	252	52.059	40.212	61.882	0.00	0.00
ATOM	3879	HB	VAL	252	52.362	41.087	62.457	0.00	0.00
ATOM	3880	CG1	VAL	252	50.726	40.510	61.062	0.00	0.00
ATOM	3881	1HG1	VAL	252	50.581	41.562	60.817	0.00	0.00
ATOM	3882	2HG1	VAL	252	50.678	39.967	60.118	0.00	0.00
ATOM	3883	3HG1	VAL	252	49.849	40.227	61.645	0.00	0.00
ATOM	3884	CG2	VAL	252	51.787	39.003	62.828	0.00	0.00
ATOM	3885	1HG2	VAL	252	50.839	39.193	63.330	0.00	0.00
ATOM	3886	2HG2	VAL	252	51.598	38.156	62.168	0.00	0.00
ATOM	3887	3HG2	VAL	252	52.698	38.937	63.422	0.00	0.00
ATOM	3888	C	VAL	252	53.181	41.257	60.033	0.00	0.00
ATOM	3889	O	VAL	252	52.612	41.246	58.962	0.00	0.00
ATOM	3890	N	ILE	253	53.608	42.433	60.553	0.00	0.00
ATOM	3891	H	ILE	253	54.158	42.369	61.398	0.00	0.00
ATOM	3892	CA	ILE	253	53.537	43.733	59.859	0.00	0.00
ATOM	3893	HA	ILE	253	52.588	43.781	59.326	0.00	0.00
ATOM	3894	CB	ILE	253	53.478	44.966	60.795	0.00	0.00
ATOM	3895	HB	ILE	253	54.397	44.939	61.381	0.00	0.00
ATOM	3896	CG2	ILE	253	53.503	46.306	60.022	0.00	0.00
ATOM	3897	1HG2	ILE	253	53.176	47.214	60.529	0.00	0.00
ATOM	3898	2HG2	ILE	253	54.545	46.552	59.815	0.00	0.00
ATOM	3899	3HG2	ILE	253	52.823	46.280	59.171	0.00	0.00

ATOM	3900	CG1	ILE	253	52.221	44.924	61.669	0.00	0.00
ATOM	3901	2HG1	ILE	253	51.308	45.082	61.095	0.00	0.00
ATOM	3902	3HG1	ILE	253	52.128	43.939	62.128	0.00	0.00
ATOM	3903	CD1	ILE	253	52.369	45.820	62.923	0.00	0.00
ATOM	3904	1HD1	ILE	253	51.627	45.636	63.700	0.00	0.00
ATOM	3905	2HD1	ILE	253	53.267	45.508	63.458	0.00	0.00
ATOM	3906	3HD1	ILE	253	52.466	46.885	62.711	0.00	0.00
ATOM	3907	C	ILE	253	54.638	43.759	58.853	0.00	0.00
ATOM	3908	O	ILE	253	55.732	44.321	59.029	0.00	0.00
ATOM	3909	N	ARG	254	54.307	43.121	57.710	0.00	0.00
ATOM	3910	H	ARG	254	53.469	42.558	57.724	0.00	0.00
ATOM	3911	CA	ARG	254	55.107	43.095	56.412	0.00	0.00
ATOM	3912	HA	ARG	254	55.825	43.901	56.264	0.00	0.00
ATOM	3913	CB	ARG	254	56.087	41.838	56.397	0.00	0.00
ATOM	3914	HB2	ARG	254	55.576	40.915	56.672	0.00	0.00
ATOM	3915	HB3	ARG	254	56.511	41.700	55.402	0.00	0.00
ATOM	3916	CG	ARG	254	57.241	41.855	57.366	0.00	0.00
ATOM	3917	HG2	ARG	254	57.784	42.777	57.157	0.00	0.00
ATOM	3918	HG3	ARG	254	56.854	41.814	58.385	0.00	0.00
ATOM	3919	CD	ARG	254	58.338	40.828	57.127	0.00	0.00
ATOM	3920	HD2	ARG	254	58.764	40.976	56.135	0.00	0.00
ATOM	3921	HD3	ARG	254	59.133	41.159	57.795	0.00	0.00
ATOM	3922	NE	ARG	254	57.945	39.392	57.166	0.00	0.00
ATOM	3923	HE	ARG	254	57.154	39.213	57.768	0.00	0.00
ATOM	3924	CZ	ARG	254	58.482	38.455	56.453	0.00	0.00
ATOM	3925	NH1	ARG	254	59.376	38.772	55.522	0.00	0.00

ATOM	3926	1HH1	ARG	254	59.712	38.048	54.903	0.00	0.00
ATOM	3927	2HH1	ARG	254	59.979	39.569	55.674	0.00	0.00
ATOM	3928	NH2	ARG	254	58.213	37.238	56.534	0.00	0.00
ATOM	3929	1HH2	ARG	254	58.424	36.587	55.792	0.00	0.00
ATOM	3930	2HH2	ARG	254	57.512	36.907	57.182	0.00	0.00
ATOM	3931	C	ARG	254	54.238	43.038	55.130	0.00	0.00
ATOM	3932	O	ARG	254	52.996	42.728	55.260	0.00	0.00
ATOM	3933	N	ASP	255	54.858	43.392	54.024	0.00	0.00
ATOM	3934	H	ASP	255	55.813	43.716	54.069	0.00	0.00
ATOM	3935	CA	ASP	255	54.355	43.201	52.645	0.00	0.00
ATOM	3936	HA	ASP	255	53.443	43.788	52.541	0.00	0.00
ATOM	3937	CB	ASP	255	55.329	43.767	51.571	0.00	0.00
ATOM	3938	HB2	ASP	255	55.555	44.820	51.737	0.00	0.00
ATOM	3939	HB3	ASP	255	56.255	43.192	51.580	0.00	0.00
ATOM	3940	CG	ASP	255	54.823	43.549	50.168	0.00	0.00
ATOM	3941	OD1	ASP	255	53.651	43.807	49.885	0.00	0.00
ATOM	3942	OD2	ASP	255	55.621	43.237	49.324	0.00	0.00
ATOM	3943	C	ASP	255	53.975	41.743	52.431	0.00	0.00
ATOM	3944	O	ASP	255	54.693	40.791	52.617	0.00	0.00
ATOM	3945	N	GLY	256	52.720	41.550	51.976	0.00	0.00
ATOM	3946	H	GLY	256	52.053	42.307	51.936	0.00	0.00
ATOM	3947	CA	GLY	256	52.214	40.138	51.803	0.00	0.00
ATOM	3948	HA2	GLY	256	51.320	40.227	51.186	0.00	0.00
ATOM	3949	HA3	GLY	256	52.915	39.505	51.259	0.00	0.00
ATOM	3950	C	GLY	256	51.772	39.444	53.129	0.00	0.00
ATOM	3951	O	GLY	256	51.732	38.215	53.188	0.00	0.00

ATOM	3952	N	MET	257	51.513	40.253	54.194	0.00	0.00
ATOM	3953	H	MET	257	51.537	41.244	53.999	0.00	0.00
ATOM	3954	CA	MET	257	50.959	39.800	55.485	0.00	0.00
ATOM	3955	HA	MET	257	50.459	38.832	55.439	0.00	0.00
ATOM	3956	CB	MET	257	52.225	39.590	56.406	0.00	0.00
ATOM	3957	HB2	MET	257	52.761	40.540	56.405	0.00	0.00
ATOM	3958	HB3	MET	257	51.878	39.342	57.409	0.00	0.00
ATOM	3959	CG	MET	257	53.340	38.580	56.048	0.00	0.00
ATOM	3960	HG2	MET	257	52.873	37.677	55.656	0.00	0.00
ATOM	3961	HG3	MET	257	53.777	38.944	55.118	0.00	0.00
ATOM	3962	SD	MET	257	54.746	38.239	57.144	0.00	0.00
ATOM	3963	CE	MET	257	55.105	36.490	56.706	0.00	0.00
ATOM	3964	HE1	MET	257	55.495	36.470	55.688	0.00	0.00
ATOM	3965	HE2	MET	257	55.767	36.121	57.489	0.00	0.00
ATOM	3966	HE3	MET	257	54.185	35.907	56.745	0.00	0.00
ATOM	3967	C	MET	257	49.914	40.702	56.064	0.00	0.00
ATOM	3968	O	MET	257	48.894	41.070	55.500	0.00	0.00
ATOM	3969	N	GLY	258	50.227	41.205	57.250	0.00	0.00
ATOM	3970	H	GLY	258	51.136	40.983	57.631	0.00	0.00
ATOM	3971	CA	GLY	258	49.510	42.331	57.953	0.00	0.00
ATOM	3972	HA2	GLY	258	48.430	42.226	58.061	0.00	0.00
ATOM	3973	HA3	GLY	258	49.786	42.243	59.003	0.00	0.00
ATOM	3974	C	GLY	258	49.845	43.685	57.459	0.00	0.00
ATOM	3975	O	GLY	258	49.382	44.620	58.144	0.00	0.00
ATOM	3976	N	GLN	259	50.564	43.849	56.300	0.00	0.00
ATOM	3977	H	GLN	259	51.250	43.132	56.115	0.00	0.00

ATOM	3978	CA	GLN	259	50.435	45.087	55.596	0.00	0.00
ATOM	3979	HA	GLN	259	49.998	45.882	56.200	0.00	0.00
ATOM	3980	CB	GLN	259	51.818	45.614	55.146	0.00	0.00
ATOM	3981	HB2	GLN	259	52.528	45.446	55.956	0.00	0.00
ATOM	3982	HB3	GLN	259	52.092	44.989	54.296	0.00	0.00
ATOM	3983	CG	GLN	259	51.999	47.037	54.729	0.00	0.00
ATOM	3984	HG2	GLN	259	51.305	47.226	53.911	0.00	0.00
ATOM	3985	HG3	GLN	259	51.862	47.741	55.550	0.00	0.00
ATOM	3986	CD	GLN	259	53.380	47.310	54.328	0.00	0.00
ATOM	3987	OE1	GLN	259	54.208	47.963	54.979	0.00	0.00
ATOM	3988	NE2	GLN	259	53.749	46.817	53.169	0.00	0.00
ATOM	3989	1HE2	GLN	259	54.694	46.862	52.816	0.00	0.00
ATOM	3990	2HE2	GLN	259	53.043	46.543	52.501	0.00	0.00
ATOM	3991	C	GLN	259	49.445	44.964	54.364	0.00	0.00
ATOM	3992	O	GLN	259	49.523	43.922	53.710	0.00	0.00
ATOM	3993	N	GLY	260	48.639	46.021	54.183	0.00	0.00
ATOM	3994	H	GLY	260	48.657	46.805	54.819	0.00	0.00
ATOM	3995	CA	GLY	260	47.606	46.189	53.119	0.00	0.00
ATOM	3996	HA2	GLY	260	47.312	45.201	52.765	0.00	0.00
ATOM	3997	HA3	GLY	260	46.781	46.821	53.446	0.00	0.00
ATOM	3998	C	GLY	260	48.169	46.810	51.877	0.00	0.00
ATOM	3999	O	GLY	260	49.011	47.659	51.993	0.00	0.00
ATOM	4000	N	GLN	261	47.568	46.498	50.778	0.00	0.00
ATOM	4001	H	GLN	261	46.737	45.941	50.919	0.00	0.00
ATOM	4002	CA	GLN	261	47.999	46.679	49.387	0.00	0.00
ATOM	4003	HA	GLN	261	49.076	46.841	49.337	0.00	0.00

ATOM	4004	CB	GLN	261	47.840	45.323	48.644	0.00	0.00
ATOM	4005	HB2	GLN	261	46.794	45.030	48.735	0.00	0.00
ATOM	4006	HB3	GLN	261	48.087	45.422	47.587	0.00	0.00
ATOM	4007	CG	GLN	261	48.722	44.257	49.229	0.00	0.00
ATOM	4008	HG2	GLN	261	48.576	44.132	50.302	0.00	0.00
ATOM	4009	HG3	GLN	261	48.429	43.300	48.798	0.00	0.00
ATOM	4010	CD	GLN	261	50.237	44.355	48.988	0.00	0.00
ATOM	4011	OE1	GLN	261	50.809	45.281	48.508	0.00	0.00
ATOM	4012	NE2	GLN	261	50.915	43.330	49.415	0.00	0.00
ATOM	4013	1HE2	GLN	261	51.923	43.384	49.444	0.00	0.00
ATOM	4014	2HE2	GLN	261	50.496	42.556	49.911	0.00	0.00
ATOM	4015	C	GLN	261	47.380	47.900	48.663	0.00	0.00
ATOM	4016	O	GLN	261	47.417	48.080	47.460	0.00	0.00
ATOM	4017	N	MET	262	46.776	48.763	49.509	0.00	0.00
ATOM	4018	H	MET	262	46.626	48.343	50.416	0.00	0.00
ATOM	4019	CA	MET	262	46.119	49.964	49.114	0.00	0.00
ATOM	4020	HA	MET	262	45.360	49.725	48.369	0.00	0.00
ATOM	4021	CB	MET	262	45.353	50.522	50.349	0.00	0.00
ATOM	4022	HB2	MET	262	44.883	51.453	50.031	0.00	0.00
ATOM	4023	HB3	MET	262	44.509	49.895	50.636	0.00	0.00
ATOM	4024	CG	MET	262	46.084	50.783	51.603	0.00	0.00
ATOM	4025	HG2	MET	262	47.105	51.073	51.354	0.00	0.00
ATOM	4026	HG3	MET	262	45.664	51.632	52.141	0.00	0.00
ATOM	4027	SD	MET	262	46.297	49.304	52.673	0.00	0.00
ATOM	4028	CE	MET	262	44.720	49.457	53.564	0.00	0.00
ATOM	4029	HE1	MET	262	44.866	48.880	54.477	0.00	0.00

ATOM	4030	HE2	MET	262	44.561	50.438	54.010	0.00	0.00
ATOM	4031	HE3	MET	262	43.817	49.230	52.996	0.00	0.00
ATOM	4032	C	MET	262	47.128	51.113	48.660	0.00	0.00
ATOM	4033	O	MET	262	48.326	51.079	49.035	0.00	0.00
ATOM	4034	N	LEU	263	46.609	52.102	47.897	0.00	0.00
ATOM	4035	H	LEU	263	45.618	52.090	47.700	0.00	0.00
ATOM	4036	CA	LEU	263	47.271	53.374	47.506	0.00	0.00
ATOM	4037	HA	LEU	263	48.111	53.131	46.855	0.00	0.00
ATOM	4038	CB	LEU	263	46.279	54.334	46.762	0.00	0.00
ATOM	4039	HB2	LEU	263	45.447	54.472	47.452	0.00	0.00
ATOM	4040	HB3	LEU	263	46.788	55.293	46.660	0.00	0.00
ATOM	4041	CG	LEU	263	45.869	53.744	45.436	0.00	0.00
ATOM	4042	HG	LEU	263	45.574	52.703	45.570	0.00	0.00
ATOM	4043	CD1	LEU	263	44.671	54.404	44.811	0.00	0.00
ATOM	4044	1HD1	LEU	263	43.876	54.450	45.555	0.00	0.00
ATOM	4045	2HD1	LEU	263	44.869	55.452	44.588	0.00	0.00
ATOM	4046	3HD1	LEU	263	44.280	53.807	43.987	0.00	0.00
ATOM	4047	CD2	LEU	263	46.997	53.757	44.417	0.00	0.00
ATOM	4048	1HD2	LEU	263	47.243	54.817	44.345	0.00	0.00
ATOM	4049	2HD2	LEU	263	47.939	53.286	44.698	0.00	0.00
ATOM	4050	3HD2	LEU	263	46.569	53.367	43.494	0.00	0.00
ATOM	4051	C	LEU	263	47.796	54.137	48.816	0.00	0.00
ATOM	4052	O	LEU	263	47.104	54.012	49.839	0.00	0.00
ATOM	4053	N	ALA	264	49.053	54.599	48.857	0.00	0.00
ATOM	4054	H	ALA	264	49.658	54.606	48.048	0.00	0.00
ATOM	4055	CA	ALA	264	49.690	54.859	50.143	0.00	0.00

ATOM	4056	HA	ALA	264	49.765	53.944	50.730	0.00	0.00
ATOM	4057	CB	ALA	264	51.116	55.355	49.899	0.00	0.00
ATOM	4058	HB1	ALA	264	51.256	56.140	49.157	0.00	0.00
ATOM	4059	HB2	ALA	264	51.576	55.719	50.818	0.00	0.00
ATOM	4060	HB3	ALA	264	51.713	54.485	49.625	0.00	0.00
ATOM	4061	C	ALA	264	48.923	55.860	51.092	0.00	0.00
ATOM	4062	O	ALA	264	48.926	55.603	52.308	0.00	0.00
ATOM	4063	N	ALA	265	48.226	56.890	50.566	0.00	0.00
ATOM	4064	H	ALA	265	48.257	57.060	49.571	0.00	0.00
ATOM	4065	CA	ALA	265	47.454	57.865	51.316	0.00	0.00
ATOM	4066	HA	ALA	265	48.023	58.323	52.125	0.00	0.00
ATOM	4067	CB	ALA	265	47.025	59.046	50.439	0.00	0.00
ATOM	4068	HB1	ALA	265	47.873	59.552	49.978	0.00	0.00
ATOM	4069	HB2	ALA	265	46.252	58.805	49.710	0.00	0.00
ATOM	4070	HB3	ALA	265	46.577	59.868	50.997	0.00	0.00
ATOM	4071	C	ALA	265	46.248	57.290	51.974	0.00	0.00
ATOM	4072	O	ALA	265	45.569	57.860	52.790	0.00	0.00
ATOM	4073	N	ASP	266	45.968	55.996	51.762	0.00	0.00
ATOM	4074	H	ASP	266	46.488	55.580	51.003	0.00	0.00
ATOM	4075	CA	ASP	266	44.679	55.351	52.238	0.00	0.00
ATOM	4076	HA	ASP	266	43.957	56.103	52.558	0.00	0.00
ATOM	4077	CB	ASP	266	44.070	54.460	51.154	0.00	0.00
ATOM	4078	HB2	ASP	266	44.853	53.976	50.570	0.00	0.00
ATOM	4079	HB3	ASP	266	43.472	53.674	51.616	0.00	0.00
ATOM	4080	CG	ASP	266	43.069	55.266	50.298	0.00	0.00
ATOM	4081	OD1	ASP	266	41.860	54.967	50.391	0.00	0.00



ATOM	4082	OD2	ASP	266	43.505	56.126	49.509	0.00	0.00
ATOM	4083	C	ASP	266	44.956	54.455	53.466	0.00	0.00
ATOM	4084	O	ASP	266	44.017	53.812	53.963	0.00	0.00
ATOM	4085	N	CYS	267	46.193	54.448	54.040	0.00	0.00
ATOM	4086	H	CYS	267	46.890	55.076	53.667	0.00	0.00
ATOM	4087	CA	CYS	267	46.517	53.821	55.360	0.00	0.00
ATOM	4088	HA	CYS	267	45.595	53.494	55.840	0.00	0.00
ATOM	4089	CB	CYS	267	47.231	52.533	55.057	0.00	0.00
ATOM	4090	HB2	CYS	267	47.792	52.060	55.864	0.00	0.00
ATOM	4091	HB3	CYS	267	46.520	51.766	54.748	0.00	0.00
ATOM	4092	SG	CYS	267	48.400	52.861	53.666	0.00	0.00
ATOM	4093	HG	CYS	267	47.480	53.416	52.872	0.00	0.00
ATOM	4094	C	CYS	267	47.263	54.785	56.343	0.00	0.00
ATOM	4095	O	CYS	267	47.636	55.897	55.955	0.00	0.00
ATOM	4096	N	VAL	268	47.328	54.464	57.639	0.00	0.00
ATOM	4097	H	VAL	268	46.941	53.575	57.921	0.00	0.00
ATOM	4098	CA	VAL	268	47.850	55.408	58.699	0.00	0.00
ATOM	4099	HA	VAL	268	47.371	56.346	58.418	0.00	0.00
ATOM	4100	CB	VAL	268	47.343	54.855	60.111	0.00	0.00
ATOM	4101	HB	VAL	268	47.542	55.539	60.936	0.00	0.00
ATOM	4102	CG1	VAL	268	45.803	54.528	60.188	0.00	0.00
ATOM	4103	1HG1	VAL	268	45.540	54.444	61.242	0.00	0.00
ATOM	4104	2HG1	VAL	268	45.153	55.298	59.773	0.00	0.00
ATOM	4105	3HG1	VAL	268	45.671	53.564	59.695	0.00	0.00
ATOM	4106	CG2	VAL	268	48.142	53.619	60.565	0.00	0.00
ATOM	4107	1HG2	VAL	268	47.951	52.715	59.986	0.00	0.00

ATOM	4108	2HG2	VAL	268	49.214	53.814	60.611	0.00	0.00
ATOM	4109	3HG2	VAL	268	47.840	53.251	61.546	0.00	0.00
ATOM	4110	C	VAL	268	49.347	55.608	58.670	0.00	0.00
ATOM	4111	O	VAL	268	50.136	54.803	58.133	0.00	0.00
ATOM	4112	N	ASP	269	49.845	56.638	59.349	0.00	0.00
ATOM	4113	H	ASP	269	49.163	57.191	59.848	0.00	0.00
ATOM	4114	CA	ASP	269	51.228	57.141	59.211	0.00	0.00
ATOM	4115	HA	ASP	269	51.576	56.835	58.225	0.00	0.00
ATOM	4116	CB	ASP	269	51.342	58.620	59.227	0.00	0.00
ATOM	4117	HB2	ASP	269	51.161	59.081	60.198	0.00	0.00
ATOM	4118	HB3	ASP	269	52.407	58.786	59.060	0.00	0.00
ATOM	4119	CG	ASP	269	50.466	59.316	58.170	0.00	0.00
ATOM	4120	OD1	ASP	269	50.391	58.839	57.018	0.00	0.00
ATOM	4121	OD2	ASP	269	49.766	60.326	58.487	0.00	0.00
ATOM	4122	C	ASP	269	52.090	56.484	60.337	0.00	0.00
ATOM	4123	O	ASP	269	53.320	56.308	60.064	0.00	0.00
ATOM	4124	N	LEU	270	51.470	56.084	61.435	0.00	0.00
ATOM	4125	H	LEU	270	50.579	56.513	61.642	0.00	0.00
ATOM	4126	CA	LEU	270	52.091	55.469	62.545	0.00	0.00
ATOM	4127	HA	LEU	270	52.828	54.708	62.286	0.00	0.00
ATOM	4128	CB	LEU	270	52.808	56.515	63.344	0.00	0.00
ATOM	4129	HB2	LEU	270	53.704	56.799	62.791	0.00	0.00
ATOM	4130	HB3	LEU	270	52.303	57.480	63.373	0.00	0.00
ATOM	4131	CG	LEU	270	53.318	56.144	64.744	0.00	0.00
ATOM	4132	HG	LEU	270	52.516	55.710	65.340	0.00	0.00
ATOM	4133	CD1	LEU	270	54.525	55.180	64.675	0.00	0.00

ATOM	4134	1HD1	LEU	270	54.988	55.075	65.656	0.00	0.00
ATOM	4135	2HD1	LEU	270	54.228	54.217	64.260	0.00	0.00
ATOM	4136	3HD1	LEU	270	55.288	55.709	64.104	0.00	0.00
ATOM	4137	CD2	LEU	270	53.855	57.338	65.484	0.00	0.00
ATOM	4138	1HD2	LEU	270	52.993	58.000	65.566	0.00	0.00
ATOM	4139	2HD2	LEU	270	54.111	56.937	66.465	0.00	0.00
ATOM	4140	3HD2	LEU	270	54.746	57.871	65.153	0.00	0.00
ATOM	4141	C	LEU	270	51.130	54.641	63.355	0.00	0.00
ATOM	4142	O	LEU	270	49.957	55.043	63.509	0.00	0.00
ATOM	4143	N	VAL	271	51.519	53.483	63.911	0.00	0.00
ATOM	4144	H	VAL	271	52.512	53.310	63.842	0.00	0.00
ATOM	4145	CA	VAL	271	50.692	52.733	64.801	0.00	0.00
ATOM	4146	HA	VAL	271	49.822	53.355	65.011	0.00	0.00
ATOM	4147	CB	VAL	271	50.212	51.507	64.140	0.00	0.00
ATOM	4148	HB	VAL	271	49.822	51.828	63.173	0.00	0.00
ATOM	4149	CG1	VAL	271	51.306	50.460	63.791	0.00	0.00
ATOM	4150	1HG1	VAL	271	51.718	50.026	64.702	0.00	0.00
ATOM	4151	2HG1	VAL	271	50.781	49.626	63.325	0.00	0.00
ATOM	4152	3HG1	VAL	271	52.050	50.797	63.069	0.00	0.00
ATOM	4153	CG2	VAL	271	49.132	50.828	64.879	0.00	0.00
ATOM	4154	1HG2	VAL	271	49.434	50.426	65.846	0.00	0.00
ATOM	4155	2HG2	VAL	271	48.384	51.577	65.140	0.00	0.00
ATOM	4156	3HG2	VAL	271	48.638	50.035	64.318	0.00	0.00
ATOM	4157	C	VAL	271	51.473	52.476	66.022	0.00	0.00
ATOM	4158	O	VAL	271	52.681	52.209	65.961	0.00	0.00
ATOM	4159	N	LEU	272	50.833	52.525	67.222	0.00	0.00

ATOM	4160	H	LEU	272	49.880	52.858	67.245	0.00	0.00
ATOM	4161	CA	LEU	272	51.453	51.884	68.425	0.00	0.00
ATOM	4162	HA	LEU	272	52.509	51.664	68.264	0.00	0.00
ATOM	4163	CB	LEU	272	51.464	52.965	69.589	0.00	0.00
ATOM	4164	HB2	LEU	272	50.492	52.985	70.083	0.00	0.00
ATOM	4165	HB3	LEU	272	52.048	52.546	70.409	0.00	0.00
ATOM	4166	CG	LEU	272	51.836	54.394	69.202	0.00	0.00
ATOM	4167	HG	LEU	272	52.464	54.406	68.310	0.00	0.00
ATOM	4168	CD1	LEU	272	50.569	55.179	69.046	0.00	0.00
ATOM	4169	1HD1	LEU	272	49.848	54.674	68.403	0.00	0.00
ATOM	4170	2HD1	LEU	272	50.145	55.212	70.049	0.00	0.00
ATOM	4171	3HD1	LEU	272	50.780	56.192	68.702	0.00	0.00
ATOM	4172	CD2	LEU	272	52.564	55.197	70.282	0.00	0.00
ATOM	4173	1HD2	LEU	272	52.662	56.242	69.989	0.00	0.00
ATOM	4174	2HD2	LEU	272	52.198	55.136	71.307	0.00	0.00
ATOM	4175	3HD2	LEU	272	53.604	54.875	70.343	0.00	0.00
ATOM	4176	C	LEU	272	50.683	50.545	68.734	0.00	0.00
ATOM	4177	O	LEU	272	49.510	50.476	69.150	0.00	0.00
ATOM	4178	N	THR	273	51.336	49.372	68.610	0.00	0.00
ATOM	4179	H	THR	273	52.286	49.356	68.269	0.00	0.00
ATOM	4180	CA	THR	273	50.791	48.050	68.723	0.00	0.00
ATOM	4181	HA	THR	273	49.712	48.166	68.624	0.00	0.00
ATOM	4182	CB	THR	273	51.320	46.944	67.871	0.00	0.00
ATOM	4183	HB	THR	273	50.995	45.960	68.208	0.00	0.00
ATOM	4184	CG2	THR	273	50.921	47.094	66.422	0.00	0.00
ATOM	4185	1HG2	THR	273	50.745	48.148	66.206	0.00	0.00

ATOM	4186	2HG2	THR	273	51.637	46.710	65.696	0.00	0.00
ATOM	4187	3HG2	THR	273	49.895	46.742	66.318	0.00	0.00
ATOM	4188	OG1	THR	273	52.735	47.079	67.877	0.00	0.00
ATOM	4189	HG1	THR	273	53.091	47.011	68.766	0.00	0.00
ATOM	4190	C	THR	273	50.928	47.587	70.115	0.00	0.00
ATOM	4191	O	THR	273	52.015	47.581	70.691	0.00	0.00
ATOM	4192	N	ASN	274	49.874	46.899	70.639	0.00	0.00
ATOM	4193	H	ASN	274	49.158	46.683	69.961	0.00	0.00
ATOM	4194	CA	ASN	274	49.844	46.376	72.034	0.00	0.00
ATOM	4195	HA	ASN	274	48.901	45.874	72.250	0.00	0.00
ATOM	4196	CB	ASN	274	50.739	45.149	72.291	0.00	0.00
ATOM	4197	HB2	ASN	274	51.748	45.371	72.638	0.00	0.00
ATOM	4198	HB3	ASN	274	50.320	44.586	73.125	0.00	0.00
ATOM	4199	CG	ASN	274	50.935	44.227	71.114	0.00	0.00
ATOM	4200	OD1	ASN	274	52.041	44.084	70.524	0.00	0.00
ATOM	4201	ND2	ASN	274	49.920	43.440	70.748	0.00	0.00
ATOM	4202	1HD2	ASN	274	49.856	43.055	69.817	0.00	0.00
ATOM	4203	2HD2	ASN	274	49.037	43.565	71.222	0.00	0.00
ATOM	4204	C	ASN	274	49.943	47.464	73.209	0.00	0.00
ATOM	4205	O	ASN	274	50.175	47.060	74.392	0.00	0.00
ATOM	4206	N	ALA	275	49.539	48.750	73.031	0.00	0.00
ATOM	4207	H	ALA	275	49.202	49.053	72.129	0.00	0.00
ATOM	4208	CA	ALA	275	49.713	49.804	74.034	0.00	0.00
ATOM	4209	HA	ALA	275	50.737	49.766	74.407	0.00	0.00
ATOM	4210	CB	ALA	275	49.534	51.213	73.356	0.00	0.00
ATOM	4211	HB1	ALA	275	50.157	51.428	72.488	0.00	0.00

ATOM	4212	HB2	ALA	275	48.532	51.230	72.927	0.00	0.00
ATOM	4213	HB3	ALA	275	49.711	52.034	74.050	0.00	0.00
ATOM	4214	C	ALA	275	48.742	49.769	75.227	0.00	0.00
ATOM	4215	O	ALA	275	47.560	49.677	75.010	0.00	0.00
ATOM	4216	N	LEU	276	49.152	49.854	76.441	0.00	0.00
ATOM	4217	H	LEU	276	50.149	49.883	76.601	0.00	0.00
ATOM	4218	CA	LEU	276	48.302	50.019	77.647	0.00	0.00
ATOM	4219	HA	LEU	276	47.384	49.470	77.435	0.00	0.00
ATOM	4220	CB	LEU	276	48.856	49.199	78.771	0.00	0.00
ATOM	4221	HB2	LEU	276	49.020	48.145	78.545	0.00	0.00
ATOM	4222	HB3	LEU	276	49.814	49.674	78.985	0.00	0.00
ATOM	4223	CG	LEU	276	47.994	49.124	80.134	0.00	0.00
ATOM	4224	HG	LEU	276	48.237	50.023	80.701	0.00	0.00
ATOM	4225	CD1	LEU	276	46.453	48.966	79.819	0.00	0.00
ATOM	4226	1HD1	LEU	276	46.131	49.927	79.419	0.00	0.00
ATOM	4227	2HD1	LEU	276	46.306	48.168	79.092	0.00	0.00
ATOM	4228	3HD1	LEU	276	45.989	48.693	80.767	0.00	0.00
ATOM	4229	CD2	LEU	276	48.428	47.832	80.899	0.00	0.00
ATOM	4230	1HD2	LEU	276	48.465	47.011	80.184	0.00	0.00
ATOM	4231	2HD2	LEU	276	49.424	48.061	81.277	0.00	0.00
ATOM	4232	3HD2	LEU	276	47.781	47.585	81.741	0.00	0.00
ATOM	4233	C	LEU	276	47.907	51.467	77.878	0.00	0.00
ATOM	4234	O	LEU	276	48.682	52.265	78.327	0.00	0.00
ATOM	4235	N	ILE	277	46.615	51.739	77.764	0.00	0.00
ATOM	4236	H	ILE	277	45.985	50.987	77.525	0.00	0.00
ATOM	4237	CA	ILE	277	46.045	53.049	78.117	0.00	0.00

ATOM	4238	HA	ILE	277	46.651	53.836	77.666	0.00	0.00
ATOM	4239	CB	ILE	277	44.593	53.311	77.554	0.00	0.00
ATOM	4240	HB	ILE	277	43.981	52.463	77.861	0.00	0.00
ATOM	4241	CG2	ILE	277	44.003	54.647	78.003	0.00	0.00
ATOM	4242	1HG2	ILE	277	42.955	54.667	77.704	0.00	0.00
ATOM	4243	2HG2	ILE	277	44.051	54.705	79.090	0.00	0.00
ATOM	4244	3HG2	ILE	277	44.522	55.489	77.545	0.00	0.00
ATOM	4245	CG1	ILE	277	44.600	53.275	75.999	0.00	0.00
ATOM	4246	2HG1	ILE	277	43.717	53.824	75.670	0.00	0.00
ATOM	4247	3HG1	ILE	277	45.530	53.747	75.682	0.00	0.00
ATOM	4248	CD1	ILE	277	44.504	51.977	75.215	0.00	0.00
ATOM	4249	1HD1	ILE	277	44.996	51.176	75.767	0.00	0.00
ATOM	4250	2HD1	ILE	277	43.471	51.687	75.026	0.00	0.00
ATOM	4251	3HD1	ILE	277	45.081	52.112	74.300	0.00	0.00
ATOM	4252	C	ILE	277	46.060	53.263	79.638	0.00	0.00
ATOM	4253	O	ILE	277	45.416	52.449	80.316	0.00	0.00
ATOM	4254	N	VAL	278	46.751	54.265	80.148	0.00	0.00
ATOM	4255	H	VAL	278	47.413	54.770	79.576	0.00	0.00
ATOM	4256	CA	VAL	278	46.343	54.889	81.462	0.00	0.00
ATOM	4257	HA	VAL	278	45.412	54.411	81.767	0.00	0.00
ATOM	4258	CB	VAL	278	47.365	54.521	82.611	0.00	0.00
ATOM	4259	HB	VAL	278	48.360	54.944	82.474	0.00	0.00
ATOM	4260	CG1	VAL	278	46.762	54.986	83.894	0.00	0.00
ATOM	4261	1HG1	VAL	278	46.292	55.960	83.755	0.00	0.00
ATOM	4262	2HG1	VAL	278	45.950	54.288	84.097	0.00	0.00
ATOM	4263	3HG1	VAL	278	47.468	55.006	84.725	0.00	0.00

ATOM	4264	CG2	VAL	278	47.648	53.044	82.834	0.00	0.00
ATOM	4265	1HG2	VAL	278	46.785	52.468	83.168	0.00	0.00
ATOM	4266	2HG2	VAL	278	48.085	52.585	81.947	0.00	0.00
ATOM	4267	3HG2	VAL	278	48.378	53.000	83.642	0.00	0.00
ATOM	4268	C	VAL	278	46.169	56.370	81.225	0.00	0.00
ATOM	4269	O	VAL	278	47.081	57.163	81.051	0.00	0.00
ATOM	4270	N	ASP	279	44.912	56.762	80.968	0.00	0.00
ATOM	4271	H	ASP	279	44.228	56.020	81.007	0.00	0.00
ATOM	4272	CA	ASP	279	44.431	58.112	80.780	0.00	0.00
ATOM	4273	HA	ASP	279	44.935	58.871	81.379	0.00	0.00
ATOM	4274	CB	ASP	279	44.568	58.492	79.264	0.00	0.00
ATOM	4275	HB2	ASP	279	44.002	57.736	78.719	0.00	0.00
ATOM	4276	HB3	ASP	279	45.608	58.538	78.942	0.00	0.00
ATOM	4277	CG	ASP	279	44.004	59.868	79.092	0.00	0.00
ATOM	4278	OD1	ASP	279	44.295	60.841	79.835	0.00	0.00
ATOM	4279	OD2	ASP	279	43.313	59.981	78.057	0.00	0.00
ATOM	4280	C	ASP	279	42.942	58.097	81.199	0.00	0.00
ATOM	4281	O	ASP	279	42.393	57.076	81.572	0.00	0.00
ATOM	4282	N	HIE	280	42.200	59.219	81.387	0.00	0.00
ATOM	4283	H	HIE	280	42.539	60.086	80.996	0.00	0.00
ATOM	4284	CA	HIE	280	41.061	59.396	82.358	0.00	0.00
ATOM	4285	HA	HIE	280	41.432	59.321	83.380	0.00	0.00
ATOM	4286	CB	HIE	280	40.578	60.828	82.228	0.00	0.00
ATOM	4287	HB2	HIE	280	39.932	61.038	83.081	0.00	0.00
ATOM	4288	HB3	HIE	280	41.400	61.518	82.419	0.00	0.00
ATOM	4289	CG	HIE	280	39.879	61.240	81.012	0.00	0.00



ATOM	4290	ND1	HIE	280	38.525	61.136	80.742	0.00	0.00
ATOM	4291	CE1	HIE	280	38.406	61.627	79.495	0.00	0.00
ATOM	4292	HE1	HIE	280	37.463	61.818	79.003	0.00	0.00
ATOM	4293	NE2	HIE	280	39.603	61.979	78.993	0.00	0.00
ATOM	4294	HE2	HIE	280	39.750	62.340	78.062	0.00	0.00
ATOM	4295	CD2	HIE	280	40.532	61.832	80.009	0.00	0.00
ATOM	4296	HD2	HIE	280	41.584	62.039	79.885	0.00	0.00
ATOM	4297	C	HIE	280	39.872	58.468	82.114	0.00	0.00
ATOM	4298	O	HIE	280	39.060	58.194	82.996	0.00	0.00
ATOM	4299	N	TRP	281	39.707	57.983	80.911	0.00	0.00
ATOM	4300	H	TRP	281	40.479	58.106	80.271	0.00	0.00
ATOM	4301	CA	TRP	281	38.600	57.161	80.424	0.00	0.00
ATOM	4302	HA	TRP	281	37.667	57.324	80.962	0.00	0.00
ATOM	4303	CB	TRP	281	38.308	57.644	79.017	0.00	0.00
ATOM	4304	HB2	TRP	281	37.491	57.056	78.599	0.00	0.00
ATOM	4305	HB3	TRP	281	37.984	58.684	79.061	0.00	0.00
ATOM	4306	CG	TRP	281	39.440	57.534	78.152	0.00	0.00
ATOM	4307	CD1	TRP	281	40.245	58.582	77.917	0.00	0.00
ATOM	4308	HD1	TRP	281	39.972	59.576	78.240	0.00	0.00
ATOM	4309	NE1	TRP	281	41.236	58.289	76.992	0.00	0.00
ATOM	4310	HE1	TRP	281	42.054	58.851	76.801	0.00	0.00
ATOM	4311	CE2	TRP	281	41.023	56.907	76.609	0.00	0.00
ATOM	4312	CZ2	TRP	281	41.715	56.130	75.696	0.00	0.00
ATOM	4313	HZ2	TRP	281	42.539	56.585	75.166	0.00	0.00
ATOM	4314	CH2	TRP	281	41.155	54.903	75.366	0.00	0.00
ATOM	4315	HH2	TRP	281	41.601	54.309	74.582	0.00	0.00

ATOM	4316	CZ3	TRP	281	40.178	54.301	76.163	0.00	0.00
ATOM	4317	HZ3	TRP	281	39.785	53.353	75.826	0.00	0.00
ATOM	4318	CE3	TRP	281	39.486	55.106	77.084	0.00	0.00
ATOM	4319	HE3	TRP	281	38.597	54.785	77.607	0.00	0.00
ATOM	4320	CD2	TRP	281	39.891	56.421	77.301	0.00	0.00
ATOM	4321	C	TRP	281	38.818	55.655	80.529	0.00	0.00
ATOM	4322	O	TRP	281	37.817	54.934	80.410	0.00	0.00
ATOM	4323	N	GLY	282	40.076	55.201	80.794	0.00	0.00
ATOM	4324	H	GLY	282	40.887	55.798	80.875	0.00	0.00
ATOM	4325	CA	GLY	282	40.190	53.793	81.034	0.00	0.00
ATOM	4326	HA2	GLY	282	39.611	53.521	81.917	0.00	0.00
ATOM	4327	HA3	GLY	282	39.704	53.200	80.259	0.00	0.00
ATOM	4328	C	GLY	282	41.577	53.241	81.228	0.00	0.00
ATOM	4329	O	GLY	282	42.567	54.008	81.190	0.00	0.00
ATOM	4330	N	ILE	283	41.560	51.971	81.569	0.00	0.00
ATOM	4331	H	ILE	283	40.672	51.495	81.489	0.00	0.00
ATOM	4332	CA	ILE	283	42.721	51.139	81.799	0.00	0.00
ATOM	4333	HA	ILE	283	43.669	51.605	81.530	0.00	0.00
ATOM	4334	CB	ILE	283	42.919	50.791	83.309	0.00	0.00
ATOM	4335	HB	ILE	283	42.017	50.339	83.721	0.00	0.00
ATOM	4336	CG2	ILE	283	44.192	49.942	83.380	0.00	0.00
ATOM	4337	1HG2	ILE	283	44.122	48.964	82.905	0.00	0.00
ATOM	4338	2HG2	ILE	283	45.074	50.457	83.001	0.00	0.00
ATOM	4339	3HG2	ILE	283	44.355	49.797	84.448	0.00	0.00
ATOM	4340	CG1	ILE	283	43.080	52.183	84.015	0.00	0.00
ATOM	4341	2HG1	ILE	283	43.570	52.890	83.345	0.00	0.00

ATOM	4342	3HG1	ILE	283	42.077	52.610	84.013	0.00	0.00
ATOM	4343	CD1	ILE	283	43.880	52.327	85.427	0.00	0.00
ATOM	4344	1HD1	ILE	283	43.566	51.610	86.185	0.00	0.00
ATOM	4345	2HD1	ILE	283	44.953	52.217	85.265	0.00	0.00
ATOM	4346	3HD1	ILE	283	43.691	53.338	85.790	0.00	0.00
ATOM	4347	C	ILE	283	42.435	49.938	80.914	0.00	0.00
ATOM	4348	O	ILE	283	42.170	48.809	81.440	0.00	0.00
ATOM	4349	N	VAL	284	42.422	50.167	79.606	0.00	0.00
ATOM	4350	H	VAL	284	42.880	51.029	79.347	0.00	0.00
ATOM	4351	CA	VAL	284	42.203	49.221	78.504	0.00	0.00
ATOM	4352	HA	VAL	284	42.048	48.217	78.898	0.00	0.00
ATOM	4353	CB	VAL	284	41.030	49.581	77.639	0.00	0.00
ATOM	4354	HB	VAL	284	40.926	48.828	76.858	0.00	0.00
ATOM	4355	CG1	VAL	284	39.694	49.714	78.431	0.00	0.00
ATOM	4356	1HG1	VAL	284	39.594	48.771	78.969	0.00	0.00
ATOM	4357	2HG1	VAL	284	39.708	50.408	79.271	0.00	0.00
ATOM	4358	3HG1	VAL	284	38.838	49.869	77.775	0.00	0.00
ATOM	4359	CG2	VAL	284	41.244	50.937	76.853	0.00	0.00
ATOM	4360	1HG2	VAL	284	40.404	51.175	76.202	0.00	0.00
ATOM	4361	2HG2	VAL	284	41.368	51.743	77.576	0.00	0.00
ATOM	4362	3HG2	VAL	284	42.081	50.739	76.183	0.00	0.00
ATOM	4363	C	VAL	284	43.461	49.062	77.643	0.00	0.00
ATOM	4364	O	VAL	284	44.231	49.990	77.463	0.00	0.00
ATOM	4365	N	LYS	285	43.455	47.917	76.932	0.00	0.00
ATOM	4366	H	LYS	285	42.798	47.160	77.057	0.00	0.00
ATOM	4367	CA	LYS	285	44.603	47.633	76.022	0.00	0.00

ATOM	4368	HA	LYS	285	45.369	48.402	75.921	0.00	0.00
ATOM	4369	CB	LYS	285	45.404	46.344	76.440	0.00	0.00
ATOM	4370	HB2	LYS	285	45.392	46.337	77.530	0.00	0.00
ATOM	4371	HB3	LYS	285	44.830	45.461	76.160	0.00	0.00
ATOM	4372	CG	LYS	285	46.846	46.316	75.986	0.00	0.00
ATOM	4373	HG2	LYS	285	46.940	46.355	74.901	0.00	0.00
ATOM	4374	HG3	LYS	285	47.524	47.064	76.398	0.00	0.00
ATOM	4375	CD	LYS	285	47.388	44.907	76.282	0.00	0.00
ATOM	4376	HD2	LYS	285	48.340	44.854	75.755	0.00	0.00
ATOM	4377	HD3	LYS	285	47.480	44.680	77.344	0.00	0.00
ATOM	4378	CE	LYS	285	46.564	43.790	75.644	0.00	0.00
ATOM	4379	HE2	LYS	285	45.577	43.693	76.097	0.00	0.00
ATOM	4380	HE3	LYS	285	46.329	44.084	74.621	0.00	0.00
ATOM	4381	NZ	LYS	285	47.035	42.394	75.769	0.00	0.00
ATOM	4382	HZ1	LYS	285	47.124	42.164	76.748	0.00	0.00
ATOM	4383	HZ2	LYS	285	46.311	41.868	75.301	0.00	0.00
ATOM	4384	HZ3	LYS	285	47.952	42.303	75.357	0.00	0.00
ATOM	4385	C	LYS	285	44.119	47.519	74.588	0.00	0.00
ATOM	4386	O	LYS	285	42.986	47.211	74.313	0.00	0.00
ATOM	4387	N	ALA	286	44.922	47.931	73.633	0.00	0.00
ATOM	4388	H	ALA	286	45.831	48.301	73.871	0.00	0.00
ATOM	4389	CA	ALA	286	44.494	48.170	72.257	0.00	0.00
ATOM	4390	HA	ALA	286	44.065	47.281	71.793	0.00	0.00
ATOM	4391	CB	ALA	286	43.515	49.450	72.219	0.00	0.00
ATOM	4392	HB1	ALA	286	42.677	49.327	72.906	0.00	0.00
ATOM	4393	HB2	ALA	286	44.037	50.337	72.577	0.00	0.00

ATOM	4394	HB3	ALA	286	43.113	49.522	71.208	0.00	0.00
ATOM	4395	C	ALA	286	45.668	48.435	71.327	0.00	0.00
ATOM	4396	O	ALA	286	46.805	48.670	71.779	0.00	0.00
ATOM	4397	N	ASP	287	45.419	48.484	70.062	0.00	0.00
ATOM	4398	H	ASP	287	44.579	48.101	69.653	0.00	0.00
ATOM	4399	CA	ASP	287	46.244	49.145	69.016	0.00	0.00
ATOM	4400	HA	ASP	287	47.266	49.107	69.390	0.00	0.00
ATOM	4401	CB	ASP	287	46.361	48.349	67.690	0.00	0.00
ATOM	4402	HB2	ASP	287	45.453	48.378	67.088	0.00	0.00
ATOM	4403	HB3	ASP	287	47.159	48.819	67.115	0.00	0.00
ATOM	4404	CG	ASP	287	46.768	46.890	67.921	0.00	0.00
ATOM	4405	OD1	ASP	287	47.940	46.555	68.183	0.00	0.00
ATOM	4406	OD2	ASP	287	45.819	46.093	67.752	0.00	0.00
ATOM	4407	C	ASP	287	45.817	50.586	68.874	0.00	0.00
ATOM	4408	O	ASP	287	44.587	50.820	69.025	0.00	0.00
ATOM	4409	N	ILE	288	46.645	51.574	68.811	0.00	0.00
ATOM	4410	H	ILE	288	47.609	51.311	68.660	0.00	0.00
ATOM	4411	CA	ILE	288	46.319	52.988	68.685	0.00	0.00
ATOM	4412	HA	ILE	288	45.231	53.054	68.670	0.00	0.00
ATOM	4413	CB	ILE	288	46.821	53.842	69.794	0.00	0.00
ATOM	4414	HB	ILE	288	47.900	53.829	69.642	0.00	0.00
ATOM	4415	CG2	ILE	288	46.472	55.343	69.602	0.00	0.00
ATOM	4416	1HG2	ILE	288	45.392	55.481	69.649	0.00	0.00
ATOM	4417	2HG2	ILE	288	47.016	55.945	70.329	0.00	0.00
ATOM	4418	3HG2	ILE	288	46.783	55.757	68.642	0.00	0.00
ATOM	4419	CG1	ILE	288	46.449	53.335	71.238	0.00	0.00

ATOM	4420	2HG1	ILE	288	45.406	53.558	71.464	0.00	0.00
ATOM	4421	3HG1	ILE	288	46.535	52.260	71.393	0.00	0.00
ATOM	4422	CD1	ILE	288	47.425	53.982	72.226	0.00	0.00
ATOM	4423	1HD1	ILE	288	48.438	53.726	71.918	0.00	0.00
ATOM	4424	2HD1	ILE	288	47.191	55.046	72.225	0.00	0.00
ATOM	4425	3HD1	ILE	288	47.249	53.592	73.229	0.00	0.00
ATOM	4426	C	ILE	288	46.869	53.419	67.258	0.00	0.00
ATOM	4427	O	ILE	288	48.039	53.298	66.991	0.00	0.00
ATOM	4428	N	GLY	289	45.964	53.856	66.349	0.00	0.00
ATOM	4429	H	GLY	289	45.009	53.974	66.657	0.00	0.00
ATOM	4430	CA	GLY	289	46.377	54.469	65.025	0.00	0.00
ATOM	4431	HA2	GLY	289	47.362	54.115	64.722	0.00	0.00
ATOM	4432	HA3	GLY	289	45.553	54.291	64.333	0.00	0.00
ATOM	4433	C	GLY	289	46.522	56.009	65.157	0.00	0.00
ATOM	4434	O	GLY	289	45.860	56.675	65.962	0.00	0.00
ATOM	4435	N	VAL	290	47.452	56.534	64.277	0.00	0.00
ATOM	4436	H	VAL	290	47.904	55.911	63.623	0.00	0.00
ATOM	4437	CA	VAL	290	47.916	57.939	64.204	0.00	0.00
ATOM	4438	HA	VAL	290	47.234	58.702	64.580	0.00	0.00
ATOM	4439	CB	VAL	290	49.276	58.265	64.854	0.00	0.00
ATOM	4440	HB	VAL	290	50.049	57.659	64.381	0.00	0.00
ATOM	4441	CG1	VAL	290	49.832	59.674	64.493	0.00	0.00
ATOM	4442	1HG1	VAL	290	49.051	60.416	64.660	0.00	0.00
ATOM	4443	2HG1	VAL	290	50.687	59.898	65.129	0.00	0.00
ATOM	4444	3HG1	VAL	290	50.302	59.623	63.510	0.00	0.00
ATOM	4445	CG2	VAL	290	49.138	58.054	66.378	0.00	0.00

ATOM 4446 1HG2 VAL 290 49.033 56.991 66.594 0.00 0.00  
ATOM 4447 2HG2 VAL 290 49.981 58.461 66.936 0.00 0.00  
ATOM 4448 3HG2 VAL 290 48.290 58.626 66.755 0.00 0.00  
ATOM 4449 C VAL 290 48.085 58.324 62.771 0.00 0.00  
ATOM 4450 O VAL 290 48.865 57.684 62.070 0.00 0.00  
ATOM 4451 N LYS 291 47.309 59.303 62.300 0.00 0.00  
ATOM 4452 H LYS 291 46.870 59.904 62.983 0.00 0.00  
ATOM 4453 CA LYS 291 47.349 59.782 60.883 0.00 0.00  
ATOM 4454 HA LYS 291 48.353 59.617 60.493 0.00 0.00  
ATOM 4455 CB LYS 291 46.257 59.070 60.024 0.00 0.00  
ATOM 4456 HB2 LYS 291 46.233 58.014 60.289 0.00 0.00  
ATOM 4457 HB3 LYS 291 45.255 59.353 60.346 0.00 0.00  
ATOM 4458 CG LYS 291 46.324 59.355 58.523 0.00 0.00  
ATOM 4459 HG2 LYS 291 46.098 60.409 58.366 0.00 0.00  
ATOM 4460 HG3 LYS 291 47.277 58.993 58.135 0.00 0.00  
ATOM 4461 CD LYS 291 45.283 58.512 57.788 0.00 0.00  
ATOM 4462 HD2 LYS 291 45.339 57.474 58.116 0.00 0.00  
ATOM 4463 HD3 LYS 291 44.303 58.909 58.053 0.00 0.00  
ATOM 4464 CE LYS 291 45.505 58.687 56.292 0.00 0.00  
ATOM 4465 HE2 LYS 291 45.711 59.707 55.967 0.00 0.00  
ATOM 4466 HE3 LYS 291 46.342 58.028 56.058 0.00 0.00  
ATOM 4467 NZ LYS 291 44.386 58.165 55.515 0.00 0.00  
ATOM 4468 HZ1 LYS 291 43.516 58.678 55.542 0.00 0.00  
ATOM 4469 HZ2 LYS 291 44.714 58.134 54.561 0.00 0.00  
ATOM 4470 HZ3 LYS 291 44.174 57.221 55.805 0.00 0.00  
ATOM 4471 C LYS 291 47.235 61.290 60.779 0.00 0.00

ATOM	4472	O	LYS	291	46.524	61.847	61.612	0.00	0.00
ATOM	4473	N	ASP	292	47.887	61.879	59.758	0.00	0.00
ATOM	4474	H	ASP	292	48.259	61.314	59.008	0.00	0.00
ATOM	4475	CA	ASP	292	47.873	63.316	59.588	0.00	0.00
ATOM	4476	HA	ASP	292	48.608	63.620	58.843	0.00	0.00
ATOM	4477	CB	ASP	292	46.523	63.775	58.998	0.00	0.00
ATOM	4478	HB2	ASP	292	46.250	63.229	58.095	0.00	0.00
ATOM	4479	HB3	ASP	292	45.738	63.600	59.733	0.00	0.00
ATOM	4480	CG	ASP	292	46.323	65.293	58.741	0.00	0.00
ATOM	4481	OD1	ASP	292	47.176	65.853	58.037	0.00	0.00
ATOM	4482	OD2	ASP	292	45.183	65.835	59.023	0.00	0.00
ATOM	4483	C	ASP	292	48.402	63.943	60.880	0.00	0.00
ATOM	4484	O	ASP	292	47.954	64.986	61.317	0.00	0.00
ATOM	4485	N	GLY	293	49.339	63.315	61.587	0.00	0.00
ATOM	4486	H	GLY	293	49.713	62.469	61.179	0.00	0.00
ATOM	4487	CA	GLY	293	49.822	63.792	62.940	0.00	0.00
ATOM	4488	HA2	GLY	293	50.734	63.279	63.245	0.00	0.00
ATOM	4489	HA3	GLY	293	50.138	64.831	62.841	0.00	0.00
ATOM	4490	C	GLY	293	48.886	63.730	64.193	0.00	0.00
ATOM	4491	O	GLY	293	49.145	64.262	65.294	0.00	0.00
ATOM	4492	N	ARG	294	47.694	63.116	63.918	0.00	0.00
ATOM	4493	H	ARG	294	47.649	62.768	62.971	0.00	0.00
ATOM	4494	CA	ARG	294	46.502	63.030	64.876	0.00	0.00
ATOM	4495	HA	ARG	294	46.876	63.389	65.835	0.00	0.00
ATOM	4496	CB	ARG	294	45.372	63.908	64.403	0.00	0.00
ATOM	4497	HB2	ARG	294	45.073	63.601	63.401	0.00	0.00



ATOM	4498	HB3	ARG	294	44.502	63.676	65.019	0.00	0.00
ATOM	4499	CG	ARG	294	45.812	65.359	64.446	0.00	0.00
ATOM	4500	HG2	ARG	294	45.649	65.701	65.468	0.00	0.00
ATOM	4501	HG3	ARG	294	46.839	65.555	64.138	0.00	0.00
ATOM	4502	CD	ARG	294	44.917	66.324	63.603	0.00	0.00
ATOM	4503	HD2	ARG	294	44.896	65.990	62.565	0.00	0.00
ATOM	4504	HD3	ARG	294	43.925	66.231	64.044	0.00	0.00
ATOM	4505	NE	ARG	294	45.432	67.679	63.668	0.00	0.00
ATOM	4506	HE	ARG	294	46.240	67.897	63.102	0.00	0.00
ATOM	4507	CZ	ARG	294	45.066	68.544	64.591	0.00	0.00
ATOM	4508	NH1	ARG	294	45.598	69.716	64.713	0.00	0.00
ATOM	4509	1HH1	ARG	294	45.347	70.401	65.412	0.00	0.00
ATOM	4510	2HH1	ARG	294	46.442	69.926	64.200	0.00	0.00
ATOM	4511	NH2	ARG	294	44.217	68.257	65.495	0.00	0.00
ATOM	4512	1HH2	ARG	294	43.910	69.032	66.065	0.00	0.00
ATOM	4513	2HH2	ARG	294	43.724	67.378	65.567	0.00	0.00
ATOM	4514	C	ARG	294	46.073	61.616	65.347	0.00	0.00
ATOM	4515	O	ARG	294	46.452	60.756	64.635	0.00	0.00
ATOM	4516	N	ILE	295	45.384	61.407	66.413	0.00	0.00
ATOM	4517	H	ILE	295	44.833	62.204	66.697	0.00	0.00
ATOM	4518	CA	ILE	295	44.916	60.079	66.802	0.00	0.00
ATOM	4519	HA	ILE	295	45.679	59.306	66.713	0.00	0.00
ATOM	4520	CB	ILE	295	44.617	60.107	68.315	0.00	0.00
ATOM	4521	HB	ILE	295	43.984	60.954	68.580	0.00	0.00
ATOM	4522	CG2	ILE	295	43.939	58.769	68.774	0.00	0.00
ATOM	4523	1HG2	ILE	295	43.933	58.577	69.847	0.00	0.00

ATOM	4524	2HG2	ILE	295	42.921	58.752	68.384	0.00	0.00
ATOM	4525	3HG2	ILE	295	44.453	57.871	68.430	0.00	0.00
ATOM	4526	CG1	ILE	295	45.934	60.424	69.183	0.00	0.00
ATOM	4527	2HG1	ILE	295	46.493	61.191	68.648	0.00	0.00
ATOM	4528	3HG1	ILE	295	45.734	60.866	70.159	0.00	0.00
ATOM	4529	CD1	ILE	295	46.968	59.226	69.474	0.00	0.00
ATOM	4530	1HD1	ILE	295	46.635	58.687	70.361	0.00	0.00
ATOM	4531	2HD1	ILE	295	46.999	58.631	68.561	0.00	0.00
ATOM	4532	3HD1	ILE	295	47.949	59.652	69.684	0.00	0.00
ATOM	4533	C	ILE	295	43.767	59.548	65.974	0.00	0.00
ATOM	4534	O	ILE	295	42.792	60.275	65.837	0.00	0.00
ATOM	4535	N	PHE	296	43.870	58.386	65.377	0.00	0.00
ATOM	4536	H	PHE	296	44.698	57.840	65.570	0.00	0.00
ATOM	4537	CA	PHE	296	43.045	57.982	64.291	0.00	0.00
ATOM	4538	HA	PHE	296	42.574	58.818	63.773	0.00	0.00
ATOM	4539	CB	PHE	296	43.952	57.271	63.273	0.00	0.00
ATOM	4540	HB2	PHE	296	44.682	58.073	63.164	0.00	0.00
ATOM	4541	HB3	PHE	296	44.418	56.395	63.724	0.00	0.00
ATOM	4542	CG	PHE	296	43.231	56.911	61.977	0.00	0.00
ATOM	4543	CD1	PHE	296	43.017	57.840	60.900	0.00	0.00
ATOM	4544	HD1	PHE	296	43.359	58.859	61.001	0.00	0.00
ATOM	4545	CE1	PHE	296	42.453	57.302	59.727	0.00	0.00
ATOM	4546	HE1	PHE	296	42.371	57.987	58.897	0.00	0.00
ATOM	4547	CZ	PHE	296	41.971	55.974	59.652	0.00	0.00
ATOM	4548	HZ	PHE	296	41.418	55.617	58.795	0.00	0.00
ATOM	4549	CE2	PHE	296	42.042	55.082	60.752	0.00	0.00

ATOM	4550	HE2	PHE	296	41.594	54.100	60.805	0.00	0.00
ATOM	4551	CD2	PHE	296	42.759	55.573	61.887	0.00	0.00
ATOM	4552	HD2	PHE	296	42.929	54.959	62.759	0.00	0.00
ATOM	4553	C	PHE	296	41.912	57.041	64.751	0.00	0.00
ATOM	4554	O	PHE	296	40.756	57.030	64.256	0.00	0.00
ATOM	4555	N	ALA	297	42.266	56.104	65.644	0.00	0.00
ATOM	4556	H	ALA	297	43.199	56.071	66.028	0.00	0.00
ATOM	4557	CA	ALA	297	41.265	55.128	66.259	0.00	0.00
ATOM	4558	HA	ALA	297	40.524	55.729	66.785	0.00	0.00
ATOM	4559	CB	ALA	297	40.661	54.115	65.265	0.00	0.00
ATOM	4560	HB1	ALA	297	41.464	53.621	64.718	0.00	0.00
ATOM	4561	HB2	ALA	297	40.089	53.306	65.718	0.00	0.00
ATOM	4562	HB3	ALA	297	39.981	54.645	64.597	0.00	0.00
ATOM	4563	C	ALA	297	41.882	54.279	67.447	0.00	0.00
ATOM	4564	O	ALA	297	43.092	54.022	67.404	0.00	0.00
ATOM	4565	N	ILE	298	41.052	53.815	68.414	0.00	0.00
ATOM	4566	H	ILE	298	40.058	53.982	68.361	0.00	0.00
ATOM	4567	CA	ILE	298	41.358	52.799	69.418	0.00	0.00
ATOM	4568	HA	ILE	298	42.383	52.439	69.330	0.00	0.00
ATOM	4569	CB	ILE	298	41.016	53.319	70.818	0.00	0.00
ATOM	4570	HB	ILE	298	39.932	53.258	70.911	0.00	0.00
ATOM	4571	CG2	ILE	298	41.747	52.420	71.913	0.00	0.00
ATOM	4572	1HG2	ILE	298	41.423	51.381	71.844	0.00	0.00
ATOM	4573	2HG2	ILE	298	42.831	52.369	71.815	0.00	0.00
ATOM	4574	3HG2	ILE	298	41.489	52.783	72.907	0.00	0.00
ATOM	4575	CG1	ILE	298	41.460	54.815	71.042	0.00	0.00

ATOM	4576	2HG1	ILE	298	41.010	55.427	70.260	0.00	0.00
ATOM	4577	3HG1	ILE	298	41.080	55.205	71.986	0.00	0.00
ATOM	4578	CD1	ILE	298	42.990	54.946	71.061	0.00	0.00
ATOM	4579	1HD1	ILE	298	43.382	54.408	70.198	0.00	0.00
ATOM	4580	2HD1	ILE	298	43.277	55.965	70.805	0.00	0.00
ATOM	4581	3HD1	ILE	298	43.394	54.546	71.991	0.00	0.00
ATOM	4582	C	ILE	298	40.591	51.501	69.181	0.00	0.00
ATOM	4583	O	ILE	298	39.380	51.459	69.228	0.00	0.00
ATOM	4584	N	GLY	299	41.387	50.462	68.737	0.00	0.00
ATOM	4585	H	GLY	299	42.384	50.519	68.893	0.00	0.00
ATOM	4586	CA	GLY	299	40.752	49.248	68.351	0.00	0.00
ATOM	4587	HA2	GLY	299	40.129	48.900	69.174	0.00	0.00
ATOM	4588	HA3	GLY	299	40.099	49.304	67.481	0.00	0.00
ATOM	4589	C	GLY	299	41.655	48.088	68.031	0.00	0.00
ATOM	4590	O	GLY	299	42.516	47.722	68.873	0.00	0.00
ATOM	4591	N	LYS	300	41.493	47.571	66.797	0.00	0.00
ATOM	4592	H	LYS	300	40.785	47.994	66.213	0.00	0.00
ATOM	4593	CA	LYS	300	42.239	46.474	66.199	0.00	0.00
ATOM	4594	HA	LYS	300	43.121	46.188	66.773	0.00	0.00
ATOM	4595	CB	LYS	300	41.382	45.169	66.215	0.00	0.00
ATOM	4596	HB2	LYS	300	41.040	44.943	67.225	0.00	0.00
ATOM	4597	HB3	LYS	300	40.474	45.213	65.613	0.00	0.00
ATOM	4598	CG	LYS	300	42.195	43.893	65.808	0.00	0.00
ATOM	4599	HG2	LYS	300	43.202	44.056	66.194	0.00	0.00
ATOM	4600	HG3	LYS	300	41.716	42.999	66.207	0.00	0.00
ATOM	4601	CD	LYS	300	42.192	43.686	64.335	0.00	0.00

ATOM	4602	HD2	LYS	300	41.197	43.463	63.951	0.00	0.00
ATOM	4603	HD3	LYS	300	42.689	44.523	63.844	0.00	0.00
ATOM	4604	CE	LYS	300	43.020	42.425	64.062	0.00	0.00
ATOM	4605	HE2	LYS	300	42.444	41.569	64.411	0.00	0.00
ATOM	4606	HE3	LYS	300	42.975	42.200	62.997	0.00	0.00
ATOM	4607	NZ	LYS	300	44.526	42.491	64.393	0.00	0.00
ATOM	4608	HZ1	LYS	300	45.058	41.703	64.049	0.00	0.00
ATOM	4609	HZ2	LYS	300	44.884	43.321	63.943	0.00	0.00
ATOM	4610	HZ3	LYS	300	44.661	42.598	65.388	0.00	0.00
ATOM	4611	C	LYS	300	42.832	46.912	64.829	0.00	0.00
ATOM	4612	O	LYS	300	42.159	47.621	64.151	0.00	0.00
ATOM	4613	N	ALA	301	44.101	46.878	64.689	0.00	0.00
ATOM	4614	H	ALA	301	44.574	46.383	65.432	0.00	0.00
ATOM	4615	CA	ALA	301	44.870	47.209	63.468	0.00	0.00
ATOM	4616	HA	ALA	301	44.323	47.949	62.883	0.00	0.00
ATOM	4617	CB	ALA	301	46.257	47.686	63.850	0.00	0.00
ATOM	4618	HB1	ALA	301	46.189	48.488	64.585	0.00	0.00
ATOM	4619	HB2	ALA	301	46.842	46.843	64.217	0.00	0.00
ATOM	4620	HB3	ALA	301	46.759	48.081	62.965	0.00	0.00
ATOM	4621	C	ALA	301	45.135	45.985	62.533	0.00	0.00
ATOM	4622	O	ALA	301	45.145	44.817	62.961	0.00	0.00
ATOM	4623	N	GLY	302	45.463	46.281	61.245	0.00	0.00
ATOM	4624	H	GLY	302	45.391	47.261	61.010	0.00	0.00
ATOM	4625	CA	GLY	302	45.900	45.268	60.272	0.00	0.00
ATOM	4626	HA2	GLY	302	46.978	45.186	60.411	0.00	0.00
ATOM	4627	HA3	GLY	302	45.611	44.264	60.584	0.00	0.00

ATOM	4628	C	GLY	302	45.537	45.497	58.813	0.00	0.00
ATOM	4629	O	GLY	302	45.040	46.591	58.391	0.00	0.00
ATOM	4630	N	ASN	303	45.879	44.523	58.008	0.00	0.00
ATOM	4631	H	ASN	303	46.066	43.687	58.543	0.00	0.00
ATOM	4632	CA	ASN	303	45.768	44.420	56.541	0.00	0.00
ATOM	4633	HA	ASN	303	46.190	45.290	56.037	0.00	0.00
ATOM	4634	CB	ASN	303	46.545	43.314	55.877	0.00	0.00
ATOM	4635	HB2	ASN	303	47.593	43.581	56.014	0.00	0.00
ATOM	4636	HB3	ASN	303	46.335	42.371	56.381	0.00	0.00
ATOM	4637	CG	ASN	303	46.375	43.170	54.389	0.00	0.00
ATOM	4638	OD1	ASN	303	45.669	43.975	53.794	0.00	0.00
ATOM	4639	ND2	ASN	303	46.612	41.947	53.917	0.00	0.00
ATOM	4640	1HD2	ASN	303	46.605	41.701	52.937	0.00	0.00
ATOM	4641	2HD2	ASN	303	47.272	41.475	54.518	0.00	0.00
ATOM	4642	C	ASN	303	44.248	44.095	56.251	0.00	0.00
ATOM	4643	O	ASN	303	43.777	42.997	56.526	0.00	0.00
ATOM	4644	N	PRO	304	43.372	45.060	55.758	0.00	0.00
ATOM	4645	CD	PRO	304	43.835	46.364	55.197	0.00	0.00
ATOM	4646	HD2	PRO	304	44.359	46.199	54.256	0.00	0.00
ATOM	4647	HD3	PRO	304	44.437	46.852	55.964	0.00	0.00
ATOM	4648	CG	PRO	304	42.563	47.162	54.924	0.00	0.00
ATOM	4649	HG2	PRO	304	42.747	48.117	55.417	0.00	0.00
ATOM	4650	HG3	PRO	304	42.382	47.027	53.858	0.00	0.00
ATOM	4651	CB	PRO	304	41.544	46.456	55.865	0.00	0.00
ATOM	4652	HB2	PRO	304	41.578	46.928	56.847	0.00	0.00
ATOM	4653	HB3	PRO	304	40.509	46.625	55.570	0.00	0.00

ATOM	4654	CA	PRO	304	41.993	45.011	55.898	0.00	0.00
ATOM	4655	HA	PRO	304	41.724	44.492	56.818	0.00	0.00
ATOM	4656	C	PRO	304	41.265	44.149	54.729	0.00	0.00
ATOM	4657	O	PRO	304	40.054	43.953	54.642	0.00	0.00
ATOM	4658	N	ASP	305	42.115	43.538	53.826	0.00	0.00
ATOM	4659	H	ASP	305	43.038	43.937	53.725	0.00	0.00
ATOM	4660	CA	ASP	305	41.664	42.646	52.751	0.00	0.00
ATOM	4661	HA	ASP	305	40.584	42.756	52.662	0.00	0.00
ATOM	4662	CB	ASP	305	42.357	42.926	51.413	0.00	0.00
ATOM	4663	HB2	ASP	305	43.394	42.661	51.621	0.00	0.00
ATOM	4664	HB3	ASP	305	41.942	42.262	50.654	0.00	0.00
ATOM	4665	CG	ASP	305	42.136	44.416	51.095	0.00	0.00
ATOM	4666	OD1	ASP	305	42.882	45.323	51.523	0.00	0.00
ATOM	4667	OD2	ASP	305	41.184	44.699	50.355	0.00	0.00
ATOM	4668	C	ASP	305	41.885	41.182	53.069	0.00	0.00
ATOM	4669	O	ASP	305	41.293	40.378	52.428	0.00	0.00
ATOM	4670	N	ILE	306	42.601	40.844	54.158	0.00	0.00
ATOM	4671	H	ILE	306	43.226	41.519	54.575	0.00	0.00
ATOM	4672	CA	ILE	306	42.646	39.504	54.721	0.00	0.00
ATOM	4673	HA	ILE	306	41.794	38.981	54.285	0.00	0.00
ATOM	4674	CB	ILE	306	43.908	38.686	54.321	0.00	0.00
ATOM	4675	HB	ILE	306	43.789	37.669	54.696	0.00	0.00
ATOM	4676	CG2	ILE	306	44.020	38.519	52.772	0.00	0.00
ATOM	4677	1HG2	ILE	306	44.413	39.399	52.262	0.00	0.00
ATOM	4678	2HG2	ILE	306	44.631	37.653	52.519	0.00	0.00
ATOM	4679	3HG2	ILE	306	43.047	38.397	52.297	0.00	0.00

ATOM	4680	CG1	ILE	306	45.322	39.163	54.874	0.00	0.00
ATOM	4681	2HG1	ILE	306	46.057	39.247	54.073	0.00	0.00
ATOM	4682	3HG1	ILE	306	45.215	40.209	55.164	0.00	0.00
ATOM	4683	CD1	ILE	306	45.901	38.348	55.968	0.00	0.00
ATOM	4684	1HD1	ILE	306	46.120	37.345	55.601	0.00	0.00
ATOM	4685	2HD1	ILE	306	46.819	38.823	56.314	0.00	0.00
ATOM	4686	3HD1	ILE	306	45.175	38.340	56.781	0.00	0.00
ATOM	4687	C	ILE	306	42.425	39.349	56.202	0.00	0.00
ATOM	4688	O	ILE	306	42.480	38.228	56.729	0.00	0.00
ATOM	4689	N	GLN	307	42.291	40.450	56.973	0.00	0.00
ATOM	4690	H	GLN	307	42.307	41.368	56.551	0.00	0.00
ATOM	4691	CA	GLN	307	41.988	40.348	58.455	0.00	0.00
ATOM	4692	HA	GLN	307	41.918	39.326	58.825	0.00	0.00
ATOM	4693	CB	GLN	307	43.080	41.084	59.242	0.00	0.00
ATOM	4694	HB2	GLN	307	43.092	42.129	58.931	0.00	0.00
ATOM	4695	HB3	GLN	307	42.884	41.065	60.314	0.00	0.00
ATOM	4696	CG	GLN	307	44.438	40.416	58.915	0.00	0.00
ATOM	4697	HG2	GLN	307	44.350	39.343	59.083	0.00	0.00
ATOM	4698	HG3	GLN	307	44.698	40.564	57.867	0.00	0.00
ATOM	4699	CD	GLN	307	45.642	41.022	59.653	0.00	0.00
ATOM	4700	OE1	GLN	307	46.172	42.083	59.392	0.00	0.00
ATOM	4701	NE2	GLN	307	46.091	40.382	60.676	0.00	0.00
ATOM	4702	1HE2	GLN	307	46.870	40.802	61.162	0.00	0.00
ATOM	4703	2HE2	GLN	307	45.634	39.525	60.952	0.00	0.00
ATOM	4704	C	GLN	307	40.534	40.846	58.848	0.00	0.00
ATOM	4705	O	GLN	307	39.995	41.788	58.209	0.00	0.00



ATOM	4706	N	PRO	308	39.941	40.292	59.941	0.00	0.00
ATOM	4707	CD	PRO	308	40.567	39.279	60.826	0.00	0.00
ATOM	4708	HD2	PRO	308	40.652	38.347	60.266	0.00	0.00
ATOM	4709	HD3	PRO	308	41.483	39.562	61.346	0.00	0.00
ATOM	4710	CG	PRO	308	39.522	38.998	61.918	0.00	0.00
ATOM	4711	HG2	PRO	308	39.358	37.929	62.055	0.00	0.00
ATOM	4712	HG3	PRO	308	39.919	39.367	62.863	0.00	0.00
ATOM	4713	CB	PRO	308	38.216	39.640	61.441	0.00	0.00
ATOM	4714	HB2	PRO	308	37.527	38.941	60.968	0.00	0.00
ATOM	4715	HB3	PRO	308	37.648	40.095	62.253	0.00	0.00
ATOM	4716	CA	PRO	308	38.655	40.778	60.464	0.00	0.00
ATOM	4717	HA	PRO	308	37.872	40.684	59.712	0.00	0.00
ATOM	4718	C	PRO	308	38.743	42.046	61.372	0.00	0.00
ATOM	4719	O	PRO	308	39.789	42.290	61.965	0.00	0.00
ATOM	4720	N	ASN	309	37.589	42.745	61.507	0.00	0.00
ATOM	4721	H	ASN	309	36.885	42.447	60.848	0.00	0.00
ATOM	4722	CA	ASN	309	37.372	43.736	62.560	0.00	0.00
ATOM	4723	HA	ASN	309	36.425	44.240	62.365	0.00	0.00
ATOM	4724	CB	ASN	309	37.241	43.001	63.916	0.00	0.00
ATOM	4725	HB2	ASN	309	36.474	42.230	63.845	0.00	0.00
ATOM	4726	HB3	ASN	309	38.223	42.557	64.081	0.00	0.00
ATOM	4727	CG	ASN	309	37.009	43.828	65.124	0.00	0.00
ATOM	4728	OD1	ASN	309	36.255	44.792	65.207	0.00	0.00
ATOM	4729	ND2	ASN	309	37.552	43.501	66.202	0.00	0.00
ATOM	4730	1HD2	ASN	309	37.656	44.208	66.916	0.00	0.00
ATOM	4731	2HD2	ASN	309	37.993	42.614	66.399	0.00	0.00

ATOM	4732	C	ASN	309	38.432	44.926	62.537	0.00	0.00
ATOM	4733	O	ASN	309	38.682	45.519	63.629	0.00	0.00
ATOM	4734	N	VAL	310	39.020	45.296	61.372	0.00	0.00
ATOM	4735	H	VAL	310	38.692	44.821	60.543	0.00	0.00
ATOM	4736	CA	VAL	310	40.064	46.307	61.420	0.00	0.00
ATOM	4737	HA	VAL	310	40.608	46.151	62.351	0.00	0.00
ATOM	4738	CB	VAL	310	41.124	46.113	60.342	0.00	0.00
ATOM	4739	HB	VAL	310	40.608	46.104	59.382	0.00	0.00
ATOM	4740	CG1	VAL	310	42.129	47.249	60.367	0.00	0.00
ATOM	4741	1HG1	VAL	310	42.962	46.941	59.735	0.00	0.00
ATOM	4742	2HG1	VAL	310	41.641	48.086	59.869	0.00	0.00
ATOM	4743	3HG1	VAL	310	42.457	47.406	61.395	0.00	0.00
ATOM	4744	CG2	VAL	310	41.807	44.749	60.561	0.00	0.00
ATOM	4745	1HG2	VAL	310	41.117	43.905	60.521	0.00	0.00
ATOM	4746	2HG2	VAL	310	42.630	44.554	59.873	0.00	0.00
ATOM	4747	3HG2	VAL	310	42.295	44.741	61.535	0.00	0.00
ATOM	4748	C	VAL	310	39.435	47.722	61.467	0.00	0.00
ATOM	4749	O	VAL	310	38.789	48.158	60.570	0.00	0.00
ATOM	4750	N	THR	311	39.826	48.472	62.497	0.00	0.00
ATOM	4751	H	THR	311	40.377	48.054	63.234	0.00	0.00
ATOM	4752	CA	THR	311	39.669	49.929	62.539	0.00	0.00
ATOM	4753	HA	THR	311	38.940	50.125	61.753	0.00	0.00
ATOM	4754	CB	THR	311	39.091	50.373	63.872	0.00	0.00
ATOM	4755	HB	THR	311	39.210	51.455	63.929	0.00	0.00
ATOM	4756	CG2	THR	311	37.655	50.003	64.027	0.00	0.00
ATOM	4757	1HG2	THR	311	37.255	50.204	63.033	0.00	0.00

ATOM	4758	2HG2	THR	311	37.450	48.935	64.095	0.00	0.00
ATOM	4759	3HG2	THR	311	37.122	50.510	64.831	0.00	0.00
ATOM	4760	OG1	THR	311	39.753	49.780	64.949	0.00	0.00
ATOM	4761	HG1	THR	311	39.222	49.055	65.286	0.00	0.00
ATOM	4762	C	THR	311	40.916	50.731	62.277	0.00	0.00
ATOM	4763	O	THR	311	40.843	51.893	61.928	0.00	0.00
ATOM	4764	N	ILE	312	42.137	50.176	62.411	0.00	0.00
ATOM	4765	H	ILE	312	42.180	49.242	62.793	0.00	0.00
ATOM	4766	CA	ILE	312	43.388	50.830	62.053	0.00	0.00
ATOM	4767	HA	ILE	312	43.141	51.873	61.852	0.00	0.00
ATOM	4768	CB	ILE	312	44.393	50.832	63.254	0.00	0.00
ATOM	4769	HB	ILE	312	44.690	49.818	63.523	0.00	0.00
ATOM	4770	CG2	ILE	312	45.588	51.647	62.816	0.00	0.00
ATOM	4771	1HG2	ILE	312	45.351	52.674	62.538	0.00	0.00
ATOM	4772	2HG2	ILE	312	46.234	51.686	63.693	0.00	0.00
ATOM	4773	3HG2	ILE	312	46.191	51.207	62.022	0.00	0.00
ATOM	4774	CG1	ILE	312	43.829	51.453	64.482	0.00	0.00
ATOM	4775	2HG1	ILE	312	44.443	52.232	64.933	0.00	0.00
ATOM	4776	3HG1	ILE	312	43.006	52.066	64.114	0.00	0.00
ATOM	4777	CD1	ILE	312	43.411	50.453	65.552	0.00	0.00
ATOM	4778	1HD1	ILE	312	42.583	49.826	65.221	0.00	0.00
ATOM	4779	2HD1	ILE	312	44.286	49.805	65.603	0.00	0.00
ATOM	4780	3HD1	ILE	312	43.183	50.932	66.504	0.00	0.00
ATOM	4781	C	ILE	312	44.063	50.214	60.782	0.00	0.00
ATOM	4782	O	ILE	312	44.698	49.183	60.891	0.00	0.00
ATOM	4783	N	PRO	313	43.970	50.830	59.598	0.00	0.00

ATOM	4784	CD	PRO	313	42.959	51.879	59.322	0.00	0.00
ATOM	4785	HD2	PRO	313	42.031	51.340	59.516	0.00	0.00
ATOM	4786	HD3	PRO	313	43.083	52.739	59.980	0.00	0.00
ATOM	4787	CG	PRO	313	43.028	52.229	57.820	0.00	0.00
ATOM	4788	HG2	PRO	313	42.043	52.468	57.419	0.00	0.00
ATOM	4789	HG3	PRO	313	43.725	53.065	57.770	0.00	0.00
ATOM	4790	CB	PRO	313	43.588	50.987	57.159	0.00	0.00
ATOM	4791	HB2	PRO	313	42.753	50.350	56.870	0.00	0.00
ATOM	4792	HB3	PRO	313	44.189	51.294	56.302	0.00	0.00
ATOM	4793	CA	PRO	313	44.396	50.292	58.256	0.00	0.00
ATOM	4794	HA	PRO	313	44.173	49.231	58.138	0.00	0.00
ATOM	4795	C	PRO	313	45.884	50.506	58.092	0.00	0.00
ATOM	4796	O	PRO	313	46.330	51.632	57.932	0.00	0.00
ATOM	4797	N	ILE	314	46.626	49.397	58.150	0.00	0.00
ATOM	4798	H	ILE	314	46.173	48.516	58.347	0.00	0.00
ATOM	4799	CA	ILE	314	48.108	49.440	58.099	0.00	0.00
ATOM	4800	HA	ILE	314	48.662	50.308	58.456	0.00	0.00
ATOM	4801	CB	ILE	314	48.591	48.266	59.025	0.00	0.00
ATOM	4802	HB	ILE	314	48.224	47.342	58.579	0.00	0.00
ATOM	4803	CG2	ILE	314	50.147	48.186	58.950	0.00	0.00
ATOM	4804	1HG2	ILE	314	50.549	47.441	59.636	0.00	0.00
ATOM	4805	2HG2	ILE	314	50.536	47.920	57.966	0.00	0.00
ATOM	4806	3HG2	ILE	314	50.637	49.113	59.244	0.00	0.00
ATOM	4807	CG1	ILE	314	48.063	48.276	60.464	0.00	0.00
ATOM	4808	2HG1	ILE	314	46.979	48.277	60.579	0.00	0.00
ATOM	4809	3HG1	ILE	314	48.512	47.389	60.910	0.00	0.00

ATOM	4810	CD1	ILE	314	48.524	49.584	61.216	0.00	0.00
ATOM	4811	1HD1	ILE	314	48.150	50.508	60.775	0.00	0.00
ATOM	4812	2HD1	ILE	314	48.165	49.435	62.234	0.00	0.00
ATOM	4813	3HD1	ILE	314	49.599	49.697	61.359	0.00	0.00
ATOM	4814	C	ILE	314	48.533	49.159	56.706	0.00	0.00
ATOM	4815	O	ILE	314	48.051	48.184	56.201	0.00	0.00
ATOM	4816	N	GLY	315	49.392	49.979	56.043	0.00	0.00
ATOM	4817	H	GLY	315	49.924	50.523	56.706	0.00	0.00
ATOM	4818	CA	GLY	315	49.824	49.927	54.626	0.00	0.00
ATOM	4819	HA2	GLY	315	49.030	50.352	54.012	0.00	0.00
ATOM	4820	HA3	GLY	315	49.944	48.876	54.366	0.00	0.00
ATOM	4821	C	GLY	315	51.194	50.514	54.460	0.00	0.00
ATOM	4822	O	GLY	315	52.010	50.483	55.360	0.00	0.00
ATOM	4823	N	ALA	316	51.416	50.993	53.239	0.00	0.00
ATOM	4824	H	ALA	316	50.735	51.052	52.496	0.00	0.00
ATOM	4825	CA	ALA	316	52.714	51.563	52.810	0.00	0.00
ATOM	4826	HA	ALA	316	53.451	50.792	53.034	0.00	0.00
ATOM	4827	CB	ALA	316	52.549	51.983	51.358	0.00	0.00
ATOM	4828	HB1	ALA	316	53.499	52.177	50.860	0.00	0.00
ATOM	4829	HB2	ALA	316	52.015	51.188	50.839	0.00	0.00
ATOM	4830	HB3	ALA	316	51.880	52.843	51.393	0.00	0.00
ATOM	4831	C	ALA	316	53.128	52.793	53.644	0.00	0.00
ATOM	4832	O	ALA	316	54.338	52.991	53.856	0.00	0.00
ATOM	4833	N	ALA	317	52.159	53.514	54.200	0.00	0.00
ATOM	4834	H	ALA	317	51.206	53.266	53.977	0.00	0.00
ATOM	4835	CA	ALA	317	52.406	54.794	55.030	0.00	0.00

ATOM	4836	HA	ALA	317	53.070	55.450	54.467	0.00	0.00
ATOM	4837	CB	ALA	317	50.974	55.387	55.094	0.00	0.00
ATOM	4838	HB1	ALA	317	51.060	56.420	55.432	0.00	0.00
ATOM	4839	HB2	ALA	317	50.386	55.407	54.177	0.00	0.00
ATOM	4840	HB3	ALA	317	50.417	54.744	55.775	0.00	0.00
ATOM	4841	C	ALA	317	53.017	54.482	56.399	0.00	0.00
ATOM	4842	O	ALA	317	53.614	55.423	56.989	0.00	0.00
ATOM	4843	N	THR	318	52.962	53.255	56.898	0.00	0.00
ATOM	4844	H	THR	318	52.620	52.491	56.334	0.00	0.00
ATOM	4845	CA	THR	318	53.052	52.997	58.341	0.00	0.00
ATOM	4846	HA	THR	318	52.751	53.915	58.847	0.00	0.00
ATOM	4847	CB	THR	318	52.010	51.945	58.876	0.00	0.00
ATOM	4848	HB	THR	318	52.422	50.966	58.630	0.00	0.00
ATOM	4849	CG2	THR	318	51.840	51.946	60.369	0.00	0.00
ATOM	4850	1HG2	THR	318	52.564	51.211	60.721	0.00	0.00
ATOM	4851	2HG2	THR	318	51.959	52.930	60.822	0.00	0.00
ATOM	4852	3HG2	THR	318	50.856	51.588	60.675	0.00	0.00
ATOM	4853	OG1	THR	318	50.732	52.233	58.272	0.00	0.00
ATOM	4854	HG1	THR	318	50.429	53.144	58.288	0.00	0.00
ATOM	4855	C	THR	318	54.427	52.811	58.864	0.00	0.00
ATOM	4856	O	THR	318	55.148	51.930	58.383	0.00	0.00
ATOM	4857	N	GLU	319	54.755	53.552	59.930	0.00	0.00
ATOM	4858	H	GLU	319	54.082	54.281	60.119	0.00	0.00
ATOM	4859	CA	GLU	319	55.779	53.310	60.928	0.00	0.00
ATOM	4860	HA	GLU	319	56.540	52.686	60.460	0.00	0.00
ATOM	4861	CB	GLU	319	56.415	54.642	61.178	0.00	0.00

ATOM	4862	HB2	GLU	319	56.853	55.130	60.307	0.00	0.00
ATOM	4863	HB3	GLU	319	55.617	55.296	61.528	0.00	0.00
ATOM	4864	CG	GLU	319	57.527	54.536	62.291	0.00	0.00
ATOM	4865	HG2	GLU	319	57.996	55.516	62.384	0.00	0.00
ATOM	4866	HG3	GLU	319	57.185	54.202	63.270	0.00	0.00
ATOM	4867	CD	GLU	319	58.730	53.518	61.933	0.00	0.00
ATOM	4868	OE1	GLU	319	59.796	54.012	61.564	0.00	0.00
ATOM	4869	OE2	GLU	319	58.572	52.316	62.107	0.00	0.00
ATOM	4870	C	GLU	319	55.220	52.477	62.052	0.00	0.00
ATOM	4871	O	GLU	319	54.102	52.683	62.442	0.00	0.00
ATOM	4872	N	VAL	320	55.979	51.584	62.709	0.00	0.00
ATOM	4873	H	VAL	320	56.970	51.506	62.533	0.00	0.00
ATOM	4874	CA	VAL	320	55.517	50.873	63.901	0.00	0.00
ATOM	4875	HA	VAL	320	54.470	51.100	64.101	0.00	0.00
ATOM	4876	CB	VAL	320	55.591	49.351	63.687	0.00	0.00
ATOM	4877	HB	VAL	320	56.661	49.149	63.641	0.00	0.00
ATOM	4878	CG1	VAL	320	55.058	48.600	64.919	0.00	0.00
ATOM	4879	1HG1	VAL	320	55.710	48.782	65.774	0.00	0.00
ATOM	4880	2HG1	VAL	320	54.045	48.956	65.104	0.00	0.00
ATOM	4881	3HG1	VAL	320	55.131	47.521	64.777	0.00	0.00
ATOM	4882	CG2	VAL	320	54.807	48.822	62.433	0.00	0.00
ATOM	4883	1HG2	VAL	320	54.764	47.734	62.484	0.00	0.00
ATOM	4884	2HG2	VAL	320	53.831	49.302	62.360	0.00	0.00
ATOM	4885	3HG2	VAL	320	55.321	49.126	61.521	0.00	0.00
ATOM	4886	C	VAL	320	56.255	51.344	65.180	0.00	0.00
ATOM	4887	O	VAL	320	57.500	51.417	65.243	0.00	0.00

ATOM	4888	N	ILE	321	55.479	51.585	66.266	0.00	0.00
ATOM	4889	H	ILE	321	54.480	51.533	66.121	0.00	0.00
ATOM	4890	CA	ILE	321	56.066	51.516	67.632	0.00	0.00
ATOM	4891	HA	ILE	321	57.150	51.453	67.545	0.00	0.00
ATOM	4892	CB	ILE	321	55.736	52.837	68.390	0.00	0.00
ATOM	4893	HB	ILE	321	54.765	53.189	68.041	0.00	0.00
ATOM	4894	CG2	ILE	321	55.680	52.661	69.930	0.00	0.00
ATOM	4895	1HG2	ILE	321	56.598	52.353	70.430	0.00	0.00
ATOM	4896	2HG2	ILE	321	55.486	53.602	70.445	0.00	0.00
ATOM	4897	3HG2	ILE	321	54.823	52.007	70.091	0.00	0.00
ATOM	4898	CG1	ILE	321	56.737	53.890	67.918	0.00	0.00
ATOM	4899	2HG1	ILE	321	57.633	53.536	68.427	0.00	0.00
ATOM	4900	3HG1	ILE	321	56.789	53.801	66.833	0.00	0.00
ATOM	4901	CD1	ILE	321	56.366	55.293	68.445	0.00	0.00
ATOM	4902	1HD1	ILE	321	55.318	55.471	68.204	0.00	0.00
ATOM	4903	2HD1	ILE	321	56.546	55.308	69.520	0.00	0.00
ATOM	4904	3HD1	ILE	321	56.960	56.016	67.886	0.00	0.00
ATOM	4905	C	ILE	321	55.670	50.232	68.372	0.00	0.00
ATOM	4906	O	ILE	321	54.541	49.812	68.465	0.00	0.00
ATOM	4907	N	ALA	322	56.731	49.645	68.818	0.00	0.00
ATOM	4908	H	ALA	322	57.622	50.119	68.764	0.00	0.00
ATOM	4909	CA	ALA	322	56.622	48.390	69.614	0.00	0.00
ATOM	4910	HA	ALA	322	55.950	47.709	69.092	0.00	0.00
ATOM	4911	CB	ALA	322	58.005	47.779	69.581	0.00	0.00
ATOM	4912	HB1	ALA	322	58.750	48.444	70.018	0.00	0.00
ATOM	4913	HB2	ALA	322	58.072	46.847	70.143	0.00	0.00



ATOM	4914	HB3	ALA	322	58.208	47.422	68.572	0.00	0.00
ATOM	4915	C	ALA	322	56.153	48.677	71.019	0.00	0.00
ATOM	4916	O	ALA	322	57.034	49.093	71.791	0.00	0.00
ATOM	4917	N	ALA	323	54.881	48.644	71.301	0.00	0.00
ATOM	4918	H	ALA	323	54.328	48.257	70.549	0.00	0.00
ATOM	4919	CA	ALA	323	54.218	49.042	72.580	0.00	0.00
ATOM	4920	HA	ALA	323	54.908	49.678	73.135	0.00	0.00
ATOM	4921	CB	ALA	323	52.965	49.983	72.394	0.00	0.00
ATOM	4922	HB1	ALA	323	52.086	49.477	71.996	0.00	0.00
ATOM	4923	HB2	ALA	323	52.802	50.673	73.223	0.00	0.00
ATOM	4924	HB3	ALA	323	53.189	50.655	71.565	0.00	0.00
ATOM	4925	C	ALA	323	53.866	47.836	73.522	0.00	0.00
ATOM	4926	O	ALA	323	53.270	48.005	74.574	0.00	0.00
ATOM	4927	N	GLU	324	54.302	46.582	73.178	0.00	0.00
ATOM	4928	H	GLU	324	54.754	46.508	72.278	0.00	0.00
ATOM	4929	CA	GLU	324	54.114	45.316	73.956	0.00	0.00
ATOM	4930	HA	GLU	324	53.037	45.176	74.053	0.00	0.00
ATOM	4931	CB	GLU	324	54.772	44.219	73.008	0.00	0.00
ATOM	4932	HB2	GLU	324	54.363	44.271	71.999	0.00	0.00
ATOM	4933	HB3	GLU	324	55.832	44.418	72.849	0.00	0.00
ATOM	4934	CG	GLU	324	54.528	42.809	73.544	0.00	0.00
ATOM	4935	HG2	GLU	324	53.802	42.883	74.355	0.00	0.00
ATOM	4936	HG3	GLU	324	54.010	42.292	72.737	0.00	0.00
ATOM	4937	CD	GLU	324	55.753	42.101	74.002	0.00	0.00
ATOM	4938	OE1	GLU	324	55.908	41.829	75.228	0.00	0.00
ATOM	4939	OE2	GLU	324	56.420	41.708	73.100	0.00	0.00

ATOM	4940	C	GLU	324	54.811	45.379	75.295	0.00	0.00
ATOM	4941	O	GLU	324	55.993	45.201	75.380	0.00	0.00
ATOM	4942	N	GLY	325	54.025	45.482	76.326	0.00	0.00
ATOM	4943	H	GLY	325	53.065	45.627	76.049	0.00	0.00
ATOM	4944	CA	GLY	325	54.401	45.542	77.699	0.00	0.00
ATOM	4945	HA2	GLY	325	53.801	44.841	78.279	0.00	0.00
ATOM	4946	HA3	GLY	325	55.394	45.110	77.829	0.00	0.00
ATOM	4947	C	GLY	325	54.413	47.035	78.234	0.00	0.00
ATOM	4948	O	GLY	325	54.395	47.254	79.451	0.00	0.00
ATOM	4949	N	LYS	326	54.354	48.013	77.337	0.00	0.00
ATOM	4950	H	LYS	326	54.180	47.770	76.373	0.00	0.00
ATOM	4951	CA	LYS	326	54.406	49.445	77.640	0.00	0.00
ATOM	4952	HA	LYS	326	55.139	49.561	78.438	0.00	0.00
ATOM	4953	CB	LYS	326	54.821	50.299	76.421	0.00	0.00
ATOM	4954	HB2	LYS	326	54.098	50.071	75.638	0.00	0.00
ATOM	4955	HB3	LYS	326	54.767	51.357	76.680	0.00	0.00
ATOM	4956	CG	LYS	326	56.238	50.146	75.865	0.00	0.00
ATOM	4957	HG2	LYS	326	56.395	49.114	75.553	0.00	0.00
ATOM	4958	HG3	LYS	326	56.420	50.751	74.977	0.00	0.00
ATOM	4959	CD	LYS	326	57.341	50.452	76.936	0.00	0.00
ATOM	4960	HD2	LYS	326	57.316	51.459	77.353	0.00	0.00
ATOM	4961	HD3	LYS	326	57.096	49.771	77.750	0.00	0.00
ATOM	4962	CE	LYS	326	58.798	50.111	76.581	0.00	0.00
ATOM	4963	HE2	LYS	326	59.258	50.792	75.865	0.00	0.00
ATOM	4964	HE3	LYS	326	59.422	50.190	77.471	0.00	0.00
ATOM	4965	NZ	LYS	326	58.981	48.758	76.136	0.00	0.00

ATOM	4966	HZ1	LYS	326	58.461	48.579	75.288	0.00	0.00
ATOM	4967	HZ2	LYS	326	59.967	48.691	75.928	0.00	0.00
ATOM	4968	HZ3	LYS	326	58.643	48.031	76.750	0.00	0.00
ATOM	4969	C	LYS	326	53.095	49.989	78.220	0.00	0.00
ATOM	4970	O	LYS	326	52.120	49.268	78.067	0.00	0.00
ATOM	4971	N	ILE	327	53.086	51.183	78.791	0.00	0.00
ATOM	4972	H	ILE	327	53.968	51.667	78.881	0.00	0.00
ATOM	4973	CA	ILE	327	51.987	51.965	79.352	0.00	0.00
ATOM	4974	HA	ILE	327	51.087	51.538	78.910	0.00	0.00
ATOM	4975	CB	ILE	327	51.986	51.980	80.886	0.00	0.00
ATOM	4976	HB	ILE	327	53.054	52.021	81.100	0.00	0.00
ATOM	4977	CG2	ILE	327	51.346	53.135	81.668	0.00	0.00
ATOM	4978	1HG2	ILE	327	50.296	53.053	81.389	0.00	0.00
ATOM	4979	2HG2	ILE	327	51.486	53.015	82.742	0.00	0.00
ATOM	4980	3HG2	ILE	327	51.708	54.096	81.304	0.00	0.00
ATOM	4981	CG1	ILE	327	51.394	50.622	81.371	0.00	0.00
ATOM	4982	2HG1	ILE	327	50.338	50.766	81.146	0.00	0.00
ATOM	4983	3HG1	ILE	327	51.931	49.814	80.873	0.00	0.00
ATOM	4984	CD1	ILE	327	51.315	50.345	82.834	0.00	0.00
ATOM	4985	1HD1	ILE	327	50.533	50.802	83.440	0.00	0.00
ATOM	4986	2HD1	ILE	327	51.202	49.265	82.924	0.00	0.00
ATOM	4987	3HD1	ILE	327	52.269	50.590	83.301	0.00	0.00
ATOM	4988	C	ILE	327	52.064	53.343	78.843	0.00	0.00
ATOM	4989	O	ILE	327	53.034	54.092	78.958	0.00	0.00
ATOM	4990	N	VAL	328	50.994	53.815	78.155	0.00	0.00
ATOM	4991	H	VAL	328	50.233	53.166	78.015	0.00	0.00

ATOM	4992	CA	VAL	328	50.922	55.048	77.454	0.00	0.00
ATOM	4993	HA	VAL	328	51.879	55.542	77.619	0.00	0.00
ATOM	4994	CB	VAL	328	50.687	54.981	75.973	0.00	0.00
ATOM	4995	HB	VAL	328	49.682	54.596	75.800	0.00	0.00
ATOM	4996	CG1	VAL	328	50.710	56.273	75.148	0.00	0.00
ATOM	4997	1HG1	VAL	328	49.921	56.978	75.410	0.00	0.00
ATOM	4998	2HG1	VAL	328	51.722	56.678	75.138	0.00	0.00
ATOM	4999	3HG1	VAL	328	50.391	56.076	74.125	0.00	0.00
ATOM	5000	CG2	VAL	328	51.626	53.913	75.437	0.00	0.00
ATOM	5001	1HG2	VAL	328	51.490	52.870	75.726	0.00	0.00
ATOM	5002	2HG2	VAL	328	51.563	53.805	74.354	0.00	0.00
ATOM	5003	3HG2	VAL	328	52.670	54.214	75.518	0.00	0.00
ATOM	5004	C	VAL	328	49.835	55.974	78.097	0.00	0.00
ATOM	5005	O	VAL	328	48.678	55.577	78.268	0.00	0.00
ATOM	5006	N	THR	329	50.278	57.139	78.377	0.00	0.00
ATOM	5007	H	THR	329	51.268	57.267	78.223	0.00	0.00
ATOM	5008	CA	THR	329	49.549	58.305	78.920	0.00	0.00
ATOM	5009	HA	THR	329	48.548	57.917	79.110	0.00	0.00
ATOM	5010	CB	THR	329	50.130	58.875	80.207	0.00	0.00
ATOM	5011	HB	THR	329	49.509	59.675	80.612	0.00	0.00
ATOM	5012	CG2	THR	329	50.417	57.896	81.317	0.00	0.00
ATOM	5013	1HG2	THR	329	49.525	57.306	81.524	0.00	0.00
ATOM	5014	2HG2	THR	329	51.215	57.224	81.000	0.00	0.00
ATOM	5015	3HG2	THR	329	50.870	58.475	82.122	0.00	0.00
ATOM	5016	OG1	THR	329	51.435	59.371	79.859	0.00	0.00
ATOM	5017	HG1	THR	329	51.582	59.562	78.930	0.00	0.00

ATOM	5018	C	THR	329	49.500	59.391	77.810	0.00	0.00
ATOM	5019	O	THR	329	50.421	59.424	76.951	0.00	0.00
ATOM	5020	N	ALA	330	48.544	60.347	77.895	0.00	0.00
ATOM	5021	H	ALA	330	47.874	60.256	78.645	0.00	0.00
ATOM	5022	CA	ALA	330	48.531	61.497	77.031	0.00	0.00
ATOM	5023	HA	ALA	330	48.543	61.134	76.003	0.00	0.00
ATOM	5024	CB	ALA	330	47.177	62.223	77.166	0.00	0.00
ATOM	5025	HB1	ALA	330	46.322	61.550	77.232	0.00	0.00
ATOM	5026	HB2	ALA	330	47.208	62.852	78.055	0.00	0.00
ATOM	5027	HB3	ALA	330	47.122	62.951	76.357	0.00	0.00
ATOM	5028	C	ALA	330	49.728	62.459	77.309	0.00	0.00
ATOM	5029	O	ALA	330	50.394	62.424	78.365	0.00	0.00
ATOM	5030	N	GLY	331	50.143	63.278	76.321	0.00	0.00
ATOM	5031	H	GLY	331	49.626	63.412	75.463	0.00	0.00
ATOM	5032	CA	GLY	331	51.072	64.370	76.550	0.00	0.00
ATOM	5033	HA2	GLY	331	52.104	64.187	76.850	0.00	0.00
ATOM	5034	HA3	GLY	331	51.223	64.944	75.636	0.00	0.00
ATOM	5035	C	GLY	331	50.506	65.395	77.558	0.00	0.00
ATOM	5036	O	GLY	331	49.348	65.776	77.328	0.00	0.00
ATOM	5037	N	GLY	332	51.226	65.816	78.624	0.00	0.00
ATOM	5038	H	GLY	332	52.156	65.476	78.820	0.00	0.00
ATOM	5039	CA	GLY	332	50.500	66.384	79.781	0.00	0.00
ATOM	5040	HA2	GLY	332	49.531	65.934	79.995	0.00	0.00
ATOM	5041	HA3	GLY	332	51.079	66.422	80.703	0.00	0.00
ATOM	5042	C	GLY	332	50.165	67.866	79.662	0.00	0.00
ATOM	5043	O	GLY	332	50.884	68.555	78.929	0.00	0.00

ATOM	5044	N	ILE	333	49.247	68.460	80.446	0.00	0.00
ATOM	5045	H	ILE	333	48.701	67.891	81.077	0.00	0.00
ATOM	5046	CA	ILE	333	48.980	69.893	80.510	0.00	0.00
ATOM	5047	HA	ILE	333	49.627	70.469	79.848	0.00	0.00
ATOM	5048	CB	ILE	333	47.557	70.218	80.038	0.00	0.00
ATOM	5049	HB	ILE	333	46.786	69.737	80.640	0.00	0.00
ATOM	5050	CG2	ILE	333	47.248	71.776	80.047	0.00	0.00
ATOM	5051	1HG2	ILE	333	47.982	72.222	79.374	0.00	0.00
ATOM	5052	2HG2	ILE	333	46.213	72.062	79.863	0.00	0.00
ATOM	5053	3HG2	ILE	333	47.621	72.102	81.017	0.00	0.00
ATOM	5054	CG1	ILE	333	47.289	69.653	78.622	0.00	0.00
ATOM	5055	2HG1	ILE	333	46.715	70.372	78.038	0.00	0.00
ATOM	5056	3HG1	ILE	333	48.261	69.529	78.145	0.00	0.00
ATOM	5057	CD1	ILE	333	46.692	68.296	78.678	0.00	0.00
ATOM	5058	1HD1	ILE	333	47.163	67.630	79.400	0.00	0.00
ATOM	5059	2HD1	ILE	333	45.644	68.400	78.961	0.00	0.00
ATOM	5060	3HD1	ILE	333	46.697	67.939	77.649	0.00	0.00
ATOM	5061	C	ILE	333	49.326	70.441	81.799	0.00	0.00
ATOM	5062	O	ILE	333	48.949	70.010	82.850	0.00	0.00
ATOM	5063	N	ASP	334	50.074	71.634	81.728	0.00	0.00
ATOM	5064	H	ASP	334	50.135	72.037	80.804	0.00	0.00
ATOM	5065	CA	ASP	334	50.035	72.508	82.843	0.00	0.00
ATOM	5066	HA	ASP	334	49.217	72.118	83.449	0.00	0.00
ATOM	5067	CB	ASP	334	51.353	72.506	83.621	0.00	0.00
ATOM	5068	HB2	ASP	334	51.872	71.548	83.628	0.00	0.00
ATOM	5069	HB3	ASP	334	52.027	73.150	83.056	0.00	0.00

ATOM	5070	CG	ASP	334	51.151	73.058	85.081	0.00	0.00
ATOM	5071	OD1	ASP	334	51.541	74.208	85.355	0.00	0.00
ATOM	5072	OD2	ASP	334	50.552	72.325	85.906	0.00	0.00
ATOM	5073	C	ASP	334	49.574	73.872	82.467	0.00	0.00
ATOM	5074	O	ASP	334	49.518	74.196	81.291	0.00	0.00
ATOM	5075	N	THR	335	49.205	74.645	83.484	0.00	0.00
ATOM	5076	H	THR	335	49.256	74.237	84.407	0.00	0.00
ATOM	5077	CA	THR	335	48.612	76.010	83.500	0.00	0.00
ATOM	5078	HA	THR	335	48.721	76.492	82.528	0.00	0.00
ATOM	5079	CB	THR	335	47.161	75.902	83.817	0.00	0.00
ATOM	5080	HB	THR	335	46.725	76.898	83.732	0.00	0.00
ATOM	5081	CG2	THR	335	46.286	75.277	82.746	0.00	0.00
ATOM	5082	1HG2	THR	335	46.203	75.855	81.825	0.00	0.00
ATOM	5083	2HG2	THR	335	46.662	74.326	82.370	0.00	0.00
ATOM	5084	3HG2	THR	335	45.290	75.089	83.148	0.00	0.00
ATOM	5085	OG1	THR	335	46.869	75.278	85.021	0.00	0.00
ATOM	5086	HG1	THR	335	47.185	74.372	85.020	0.00	0.00
ATOM	5087	C	THR	335	49.256	77.100	84.357	0.00	0.00
ATOM	5088	O	THR	335	48.865	78.263	84.349	0.00	0.00
ATOM	5089	N	H21	336	50.258	76.773	85.156	0.00	0.00
ATOM	5090	H	H21	336	50.565	75.811	85.183	0.00	0.00
ATOM	5091	CA	H21	336	50.901	77.699	86.162	0.00	0.00
ATOM	5092	HA	H21	336	50.622	78.722	85.912	0.00	0.00
ATOM	5093	CB	H21	336	50.466	77.447	87.618	0.00	0.00
ATOM	5094	HB2	H21	336	49.402	77.221	87.680	0.00	0.00
ATOM	5095	HB3	H21	336	50.885	76.475	87.880	0.00	0.00

ATOM	5096	CG	H21	336	50.690	78.529	88.662	0.00	0.00
ATOM	5097	ND1	H21	336	50.122	78.585	89.936	0.00	0.00
ATOM	5098	HD1	H21	336	49.517	77.835	90.239	0.00	0.00
ATOM	5099	CE1	H21	336	50.820	79.443	90.695	0.00	0.00
ATOM	5100	HE1	H21	336	50.664	79.607	91.751	0.00	0.00
ATOM	5101	NE2	H21	336	51.780	80.026	89.980	0.00	0.00
ATOM	5102	CD2	H21	336	51.693	79.467	88.693	0.00	0.00
ATOM	5103	HD2	H21	336	52.343	79.672	87.855	0.00	0.00
ATOM	5104	C	H21	336	52.387	77.561	85.851	0.00	0.00
ATOM	5105	O	H21	336	53.278	77.569	86.721	0.00	0.00
ATOM	5106	N	ILE	337	52.745	77.452	84.570	0.00	0.00
ATOM	5107	H	ILE	337	52.069	77.399	83.821	0.00	0.00
ATOM	5108	CA	ILE	337	54.185	77.509	84.106	0.00	0.00
ATOM	5109	HA	ILE	337	54.825	76.881	84.726	0.00	0.00
ATOM	5110	CB	ILE	337	54.332	76.965	82.612	0.00	0.00
ATOM	5111	HB	ILE	337	53.666	77.579	82.006	0.00	0.00
ATOM	5112	CG2	ILE	337	55.697	77.130	82.012	0.00	0.00
ATOM	5113	1HG2	ILE	337	56.458	76.755	82.697	0.00	0.00
ATOM	5114	2HG2	ILE	337	55.722	76.782	80.979	0.00	0.00
ATOM	5115	3HG2	ILE	337	55.868	78.203	81.921	0.00	0.00
ATOM	5116	CG1	ILE	337	53.821	75.572	82.477	0.00	0.00
ATOM	5117	2HG1	ILE	337	52.868	75.507	83.002	0.00	0.00
ATOM	5118	3HG1	ILE	337	53.826	75.281	81.427	0.00	0.00
ATOM	5119	CD1	ILE	337	54.662	74.454	83.092	0.00	0.00
ATOM	5120	1HD1	ILE	337	54.156	73.490	83.038	0.00	0.00
ATOM	5121	2HD1	ILE	337	55.669	74.498	82.678	0.00	0.00



ATOM 5122 3HD1 ILE 337 54.846 74.662 84.146 0.00 0.00  
ATOM 5123 C ILE 337 54.556 78.969 84.152 0.00 0.00  
ATOM 5124 O ILE 337 53.913 79.807 83.583 0.00 0.00  
ATOM 5125 N H22 338 55.490 79.368 84.999 0.00 0.00  
ATOM 5126 H H22 338 55.962 78.786 85.676 0.00 0.00  
ATOM 5127 CA H22 338 56.200 80.580 84.908 0.00 0.00  
ATOM 5128 HA H22 338 55.646 81.440 84.532 0.00 0.00  
ATOM 5129 CB H22 338 56.671 81.080 86.291 0.00 0.00  
ATOM 5130 HB2 H22 338 57.235 80.319 86.831 0.00 0.00  
ATOM 5131 HB3 H22 338 57.421 81.868 86.211 0.00 0.00  
ATOM 5132 CG H22 338 55.735 81.687 87.324 0.00 0.00  
ATOM 5133 ND1 H22 338 55.931 82.854 87.995 0.00 0.00  
ATOM 5134 HD1 H22 338 56.381 83.705 87.690 0.00 0.00  
ATOM 5135 CE1 H22 338 55.274 82.784 89.122 0.00 0.00  
ATOM 5136 HE1 H22 338 55.211 83.621 89.802 0.00 0.00  
ATOM 5137 NE2 H22 338 54.617 81.600 89.306 0.00 0.00  
ATOM 5138 CD2 H22 338 54.964 80.859 88.175 0.00 0.00  
ATOM 5139 HD2 H22 338 54.756 79.823 87.952 0.00 0.00  
ATOM 5140 C H22 338 57.459 80.467 84.028 0.00 0.00  
ATOM 5141 O H22 338 58.172 79.494 84.224 0.00 0.00  
ATOM 5142 N TRP 339 57.691 81.388 83.142 0.00 0.00  
ATOM 5143 H TRP 339 57.037 82.158 83.140 0.00 0.00  
ATOM 5144 CA TRP 339 58.752 81.339 82.145 0.00 0.00  
ATOM 5145 HA TRP 339 59.104 80.311 82.060 0.00 0.00  
ATOM 5146 CB TRP 339 58.229 81.764 80.808 0.00 0.00  
ATOM 5147 HB2 TRP 339 57.850 82.783 80.873 0.00 0.00

ATOM	5148	HB3	TRP	339	59.082	81.910	80.145	0.00	0.00
ATOM	5149	CG	TRP	339	57.224	80.966	80.164	0.00	0.00
ATOM	5150	CD1	TRP	339	55.992	81.380	79.719	0.00	0.00
ATOM	5151	HD1	TRP	339	55.547	82.364	79.716	0.00	0.00
ATOM	5152	NE1	TRP	339	55.414	80.395	79.008	0.00	0.00
ATOM	5153	HE1	TRP	339	54.513	80.542	78.576	0.00	0.00
ATOM	5154	CE2	TRP	339	56.204	79.292	78.913	0.00	0.00
ATOM	5155	CZ2	TRP	339	56.110	78.132	78.115	0.00	0.00
ATOM	5156	HZ2	TRP	339	55.283	77.852	77.478	0.00	0.00
ATOM	5157	CH2	TRP	339	57.178	77.250	78.123	0.00	0.00
ATOM	5158	HH2	TRP	339	56.983	76.291	77.668	0.00	0.00
ATOM	5159	CZ3	TRP	339	58.313	77.440	78.927	0.00	0.00
ATOM	5160	HZ3	TRP	339	59.019	76.626	79.007	0.00	0.00
ATOM	5161	CE3	TRP	339	58.432	78.644	79.671	0.00	0.00
ATOM	5162	HE3	TRP	339	59.325	78.768	80.265	0.00	0.00
ATOM	5163	CD2	TRP	339	57.383	79.612	79.622	0.00	0.00
ATOM	5164	C	TRP	339	59.984	82.150	82.683	0.00	0.00
ATOM	5165	O	TRP	339	60.309	83.249	82.265	0.00	0.00
ATOM	5166	N	ILE	340	60.644	81.516	83.650	0.00	0.00
ATOM	5167	H	ILE	340	60.430	80.530	83.618	0.00	0.00
ATOM	5168	CA	ILE	340	61.956	81.991	84.274	0.00	0.00
ATOM	5169	HA	ILE	340	61.916	83.078	84.345	0.00	0.00
ATOM	5170	CB	ILE	340	62.345	81.397	85.650	0.00	0.00
ATOM	5171	HB	ILE	340	62.872	80.444	85.608	0.00	0.00
ATOM	5172	CG2	ILE	340	63.388	82.321	86.280	0.00	0.00
ATOM	5173	1HG2	ILE	340	64.360	82.291	85.787	0.00	0.00

ATOM	5174	2HG2	ILE	340	63.017	83.345	86.224	0.00	0.00
ATOM	5175	3HG2	ILE	340	63.479	81.976	87.310	0.00	0.00
ATOM	5176	CG1	ILE	340	61.162	81.133	86.622	0.00	0.00
ATOM	5177	2HG1	ILE	340	60.434	80.425	86.225	0.00	0.00
ATOM	5178	3HG1	ILE	340	61.495	80.581	87.501	0.00	0.00
ATOM	5179	CD1	ILE	340	60.326	82.435	86.909	0.00	0.00
ATOM	5180	1HD1	ILE	340	59.872	82.856	86.012	0.00	0.00
ATOM	5181	2HD1	ILE	340	59.534	82.331	87.650	0.00	0.00
ATOM	5182	3HD1	ILE	340	60.946	83.210	87.358	0.00	0.00
ATOM	5183	C	ILE	340	63.152	81.902	83.272	0.00	0.00
ATOM	5184	O	ILE	340	64.007	82.735	83.146	0.00	0.00
ATOM	5185	N	CYS	341	63.245	80.820	82.521	0.00	0.00
ATOM	5186	H	CYS	341	62.404	80.262	82.565	0.00	0.00
ATOM	5187	CA	CYS	341	64.346	80.265	81.714	0.00	0.00
ATOM	5188	HA	CYS	341	64.977	81.081	81.359	0.00	0.00
ATOM	5189	CB	CYS	341	65.108	79.388	82.664	0.00	0.00
ATOM	5190	HB2	CYS	341	65.199	79.986	83.570	0.00	0.00
ATOM	5191	HB3	CYS	341	64.424	78.594	82.961	0.00	0.00
ATOM	5192	SG	CYS	341	66.619	78.735	82.018	0.00	0.00
ATOM	5193	HG	CYS	341	67.143	78.314	83.173	0.00	0.00
ATOM	5194	C	CYS	341	63.759	79.443	80.557	0.00	0.00
ATOM	5195	O	CYS	341	62.885	78.592	80.713	0.00	0.00
ATOM	5196	N	PRO	342	64.253	79.662	79.383	0.00	0.00
ATOM	5197	CD	PRO	342	65.288	80.601	78.992	0.00	0.00
ATOM	5198	HD2	PRO	342	65.136	81.586	79.433	0.00	0.00
ATOM	5199	HD3	PRO	342	66.283	80.198	79.183	0.00	0.00

ATOM	5200	CG	PRO	342	65.239	80.636	77.458	0.00	0.00
ATOM	5201	HG2	PRO	342	64.514	81.362	77.089	0.00	0.00
ATOM	5202	HG3	PRO	342	66.249	80.923	77.165	0.00	0.00
ATOM	5203	CB	PRO	342	64.823	79.216	77.035	0.00	0.00
ATOM	5204	HB2	PRO	342	64.267	79.157	76.099	0.00	0.00
ATOM	5205	HB3	PRO	342	65.756	78.658	76.952	0.00	0.00
ATOM	5206	CA	PRO	342	63.932	78.799	78.176	0.00	0.00
ATOM	5207	HA	PRO	342	62.882	78.997	77.962	0.00	0.00
ATOM	5208	C	PRO	342	64.061	77.318	78.474	0.00	0.00
ATOM	5209	O	PRO	342	63.267	76.503	78.016	0.00	0.00
ATOM	5210	N	GLN	343	65.087	76.896	79.177	0.00	0.00
ATOM	5211	H	GLN	343	65.671	77.625	79.561	0.00	0.00
ATOM	5212	CA	GLN	343	65.491	75.491	79.536	0.00	0.00
ATOM	5213	HA	GLN	343	65.550	74.910	78.616	0.00	0.00
ATOM	5214	CB	GLN	343	66.845	75.453	80.239	0.00	0.00
ATOM	5215	HB2	GLN	343	66.762	75.960	81.200	0.00	0.00
ATOM	5216	HB3	GLN	343	67.024	74.417	80.524	0.00	0.00
ATOM	5217	CG	GLN	343	68.094	76.021	79.512	0.00	0.00
ATOM	5218	HG2	GLN	343	68.117	77.102	79.647	0.00	0.00
ATOM	5219	HG3	GLN	343	68.884	75.720	80.199	0.00	0.00
ATOM	5220	CD	GLN	343	68.274	75.651	78.053	0.00	0.00
ATOM	5221	OE1	GLN	343	67.641	76.282	77.151	0.00	0.00
ATOM	5222	NE2	GLN	343	69.151	74.692	77.799	0.00	0.00
ATOM	5223	1HE2	GLN	343	69.078	74.275	76.882	0.00	0.00
ATOM	5224	2HE2	GLN	343	69.501	74.097	78.537	0.00	0.00
ATOM	5225	C	GLN	343	64.414	74.720	80.337	0.00	0.00

ATOM	5226	O	GLN	343	64.451	73.496	80.404	0.00	0.00
ATOM	5227	N	GLN	344	63.370	75.433	80.881	0.00	0.00
ATOM	5228	H	GLN	344	63.275	76.435	80.800	0.00	0.00
ATOM	5229	CA	GLN	344	62.259	74.767	81.603	0.00	0.00
ATOM	5230	HA	GLN	344	62.692	74.124	82.369	0.00	0.00
ATOM	5231	CB	GLN	344	61.320	75.819	82.195	0.00	0.00
ATOM	5232	HB2	GLN	344	61.254	76.573	81.411	0.00	0.00
ATOM	5233	HB3	GLN	344	60.335	75.386	82.372	0.00	0.00
ATOM	5234	CG	GLN	344	61.911	76.441	83.445	0.00	0.00
ATOM	5235	HG2	GLN	344	61.882	75.660	84.205	0.00	0.00
ATOM	5236	HG3	GLN	344	62.962	76.718	83.354	0.00	0.00
ATOM	5237	CD	GLN	344	61.049	77.556	84.073	0.00	0.00
ATOM	5238	OE1	GLN	344	61.315	78.716	83.793	0.00	0.00
ATOM	5239	NE2	GLN	344	59.990	77.298	84.769	0.00	0.00
ATOM	5240	1HE2	GLN	344	59.478	78.101	85.106	0.00	0.00
ATOM	5241	2HE2	GLN	344	59.495	76.418	84.749	0.00	0.00
ATOM	5242	C	GLN	344	61.424	73.836	80.652	0.00	0.00
ATOM	5243	O	GLN	344	60.729	73.006	81.143	0.00	0.00
ATOM	5244	N	ALA	345	61.691	73.896	79.373	0.00	0.00
ATOM	5245	H	ALA	345	62.357	74.576	79.036	0.00	0.00
ATOM	5246	CA	ALA	345	61.147	73.027	78.361	0.00	0.00
ATOM	5247	HA	ALA	345	60.650	72.146	78.766	0.00	0.00
ATOM	5248	CB	ALA	345	60.049	73.843	77.704	0.00	0.00
ATOM	5249	HB1	ALA	345	59.279	74.086	78.437	0.00	0.00
ATOM	5250	HB2	ALA	345	60.444	74.709	77.174	0.00	0.00
ATOM	5251	HB3	ALA	345	59.567	73.236	76.938	0.00	0.00

ATOM	5252	C	ALA	345	62.235	72.476	77.356	0.00	0.00
ATOM	5253	O	ALA	345	62.103	71.359	76.885	0.00	0.00
ATOM	5254	N	GLU	346	63.352	73.217	77.107	0.00	0.00
ATOM	5255	H	GLU	346	63.339	74.187	77.388	0.00	0.00
ATOM	5256	CA	GLU	346	64.417	72.865	76.124	0.00	0.00
ATOM	5257	HA	GLU	346	63.965	72.344	75.280	0.00	0.00
ATOM	5258	CB	GLU	346	65.271	74.093	75.711	0.00	0.00
ATOM	5259	HB2	GLU	346	65.540	74.640	76.614	0.00	0.00
ATOM	5260	HB3	GLU	346	66.188	73.715	75.260	0.00	0.00
ATOM	5261	CG	GLU	346	64.637	75.087	74.818	0.00	0.00
ATOM	5262	HG2	GLU	346	63.590	75.116	75.117	0.00	0.00
ATOM	5263	HG3	GLU	346	64.954	76.121	74.958	0.00	0.00
ATOM	5264	CD	GLU	346	64.701	74.617	73.364	0.00	0.00
ATOM	5265	OE1	GLU	346	64.658	75.519	72.480	0.00	0.00
ATOM	5266	OE2	GLU	346	64.805	73.463	73.056	0.00	0.00
ATOM	5267	C	GLU	346	65.377	71.766	76.674	0.00	0.00
ATOM	5268	O	GLU	346	66.167	71.150	75.951	0.00	0.00
ATOM	5269	N	GLU	347	65.295	71.582	77.976	0.00	0.00
ATOM	5270	H	GLU	347	64.653	72.156	78.503	0.00	0.00
ATOM	5271	CA	GLU	347	65.939	70.393	78.558	0.00	0.00
ATOM	5272	HA	GLU	347	66.264	69.674	77.806	0.00	0.00
ATOM	5273	CB	GLU	347	67.116	70.867	79.409	0.00	0.00
ATOM	5274	HB2	GLU	347	67.440	69.973	79.943	0.00	0.00
ATOM	5275	HB3	GLU	347	66.788	71.461	80.261	0.00	0.00
ATOM	5276	CG	GLU	347	68.301	71.483	78.770	0.00	0.00
ATOM	5277	HG2	GLU	347	68.739	70.789	78.052	0.00	0.00

ATOM	5278	HG3	GLU	347	68.064	72.475	78.384	0.00	0.00
ATOM	5279	CD	GLU	347	69.401	71.898	79.797	0.00	0.00
ATOM	5280	OE1	GLU	347	70.280	70.994	80.110	0.00	0.00
ATOM	5281	OE2	GLU	347	69.555	73.062	80.165	0.00	0.00
ATOM	5282	C	GLU	347	64.871	69.538	79.362	0.00	0.00
ATOM	5283	O	GLU	347	64.744	68.339	79.181	0.00	0.00
ATOM	5284	N	ALA	348	64.070	70.292	80.130	0.00	0.00
ATOM	5285	H	ALA	348	64.368	71.239	80.314	0.00	0.00
ATOM	5286	CA	ALA	348	63.226	69.661	81.119	0.00	0.00
ATOM	5287	HA	ALA	348	63.705	68.804	81.593	0.00	0.00
ATOM	5288	CB	ALA	348	62.925	70.668	82.228	0.00	0.00
ATOM	5289	HB1	ALA	348	62.360	70.229	83.050	0.00	0.00
ATOM	5290	HB2	ALA	348	63.867	70.961	82.691	0.00	0.00
ATOM	5291	HB3	ALA	348	62.339	71.434	81.719	0.00	0.00
ATOM	5292	C	ALA	348	61.933	69.095	80.589	0.00	0.00
ATOM	5293	O	ALA	348	61.116	68.732	81.412	0.00	0.00
ATOM	5294	N	LEU	349	61.673	68.880	79.310	0.00	0.00
ATOM	5295	H	LEU	349	62.227	69.390	78.637	0.00	0.00
ATOM	5296	CA	LEU	349	60.482	68.258	78.727	0.00	0.00
ATOM	5297	HA	LEU	349	59.581	68.752	79.091	0.00	0.00
ATOM	5298	CB	LEU	349	60.491	68.509	77.150	0.00	0.00
ATOM	5299	HB2	LEU	349	60.422	69.591	77.043	0.00	0.00
ATOM	5300	HB3	LEU	349	61.464	68.425	76.667	0.00	0.00
ATOM	5301	CG	LEU	349	59.411	67.930	76.174	0.00	0.00
ATOM	5302	HG	LEU	349	59.537	66.853	76.064	0.00	0.00
ATOM	5303	CD1	LEU	349	58.089	68.173	76.772	0.00	0.00

ATOM	5304	1HD1	LEU	349	57.251	68.062	76.084	0.00	0.00
ATOM	5305	2HD1	LEU	349	57.906	67.624	77.696	0.00	0.00
ATOM	5306	3HD1	LEU	349	58.043	69.195	77.148	0.00	0.00
ATOM	5307	CD2	LEU	349	59.439	68.561	74.784	0.00	0.00
ATOM	5308	1HD2	LEU	349	60.405	68.400	74.306	0.00	0.00
ATOM	5309	2HD2	LEU	349	58.720	68.122	74.093	0.00	0.00
ATOM	5310	3HD2	LEU	349	59.257	69.632	74.870	0.00	0.00
ATOM	5311	C	LEU	349	60.381	66.810	79.121	0.00	0.00
ATOM	5312	O	LEU	349	59.475	66.071	78.840	0.00	0.00
ATOM	5313	N	VAL	350	61.396	66.295	79.843	0.00	0.00
ATOM	5314	H	VAL	350	62.221	66.832	80.069	0.00	0.00
ATOM	5315	CA	VAL	350	61.378	64.968	80.468	0.00	0.00
ATOM	5316	HA	VAL	350	61.158	64.269	79.660	0.00	0.00
ATOM	5317	CB	VAL	350	62.715	64.595	81.272	0.00	0.00
ATOM	5318	HB	VAL	350	62.433	63.787	81.948	0.00	0.00
ATOM	5319	CG1	VAL	350	63.745	64.156	80.245	0.00	0.00
ATOM	5320	1HG1	VAL	350	63.272	63.371	79.653	0.00	0.00
ATOM	5321	2HG1	VAL	350	64.010	65.011	79.623	0.00	0.00
ATOM	5322	3HG1	VAL	350	64.629	63.758	80.742	0.00	0.00
ATOM	5323	CG2	VAL	350	63.369	65.777	82.062	0.00	0.00
ATOM	5324	1HG2	VAL	350	63.867	66.468	81.382	0.00	0.00
ATOM	5325	2HG2	VAL	350	62.476	66.276	82.438	0.00	0.00
ATOM	5326	3HG2	VAL	350	63.972	65.393	82.885	0.00	0.00
ATOM	5327	C	VAL	350	60.298	64.795	81.444	0.00	0.00
ATOM	5328	O	VAL	350	59.888	63.672	81.720	0.00	0.00
ATOM	5329	N	SER	351	59.723	65.903	81.990	0.00	0.00



ATOM	5330	H	SER	351	60.001	66.810	81.642	0.00	0.00
ATOM	5331	CA	SER	351	58.675	65.842	82.918	0.00	0.00
ATOM	5332	HA	SER	351	58.821	65.064	83.667	0.00	0.00
ATOM	5333	CB	SER	351	58.495	67.115	83.849	0.00	0.00
ATOM	5334	HB2	SER	351	58.516	67.930	83.126	0.00	0.00
ATOM	5335	HB3	SER	351	57.580	67.033	84.436	0.00	0.00
ATOM	5336	OG	SER	351	59.596	67.164	84.784	0.00	0.00
ATOM	5337	HG	SER	351	59.404	67.823	85.455	0.00	0.00
ATOM	5338	C	SER	351	57.338	65.512	82.255	0.00	0.00
ATOM	5339	O	SER	351	56.319	65.323	82.920	0.00	0.00
ATOM	5340	N	GLY	352	57.197	65.314	80.917	0.00	0.00
ATOM	5341	H	GLY	352	57.920	65.597	80.271	0.00	0.00
ATOM	5342	CA	GLY	352	56.100	64.728	80.252	0.00	0.00
ATOM	5343	HA2	GLY	352	56.500	64.494	79.266	0.00	0.00
ATOM	5344	HA3	GLY	352	55.852	63.770	80.710	0.00	0.00
ATOM	5345	C	GLY	352	54.832	65.610	80.206	0.00	0.00
ATOM	5346	O	GLY	352	53.773	65.133	79.741	0.00	0.00
ATOM	5347	N	VAL	353	54.950	66.942	80.446	0.00	0.00
ATOM	5348	H	VAL	353	55.899	67.264	80.571	0.00	0.00
ATOM	5349	CA	VAL	353	53.957	67.948	80.026	0.00	0.00
ATOM	5350	HA	VAL	353	52.963	67.513	79.921	0.00	0.00
ATOM	5351	CB	VAL	353	53.951	69.102	81.074	0.00	0.00
ATOM	5352	HB	VAL	353	54.966	69.402	81.336	0.00	0.00
ATOM	5353	CG1	VAL	353	53.336	70.361	80.519	0.00	0.00
ATOM	5354	1HG1	VAL	353	52.377	70.270	80.009	0.00	0.00
ATOM	5355	2HG1	VAL	353	53.103	71.005	81.367	0.00	0.00

ATOM	5356	3HG1	VAL	353	54.059	70.892	79.901	0.00	0.00
ATOM	5357	CG2	VAL	353	53.191	68.719	82.371	0.00	0.00
ATOM	5358	1HG2	VAL	353	53.750	67.855	82.731	0.00	0.00
ATOM	5359	2HG2	VAL	353	53.243	69.509	83.119	0.00	0.00
ATOM	5360	3HG2	VAL	353	52.155	68.520	82.093	0.00	0.00
ATOM	5361	C	VAL	353	54.368	68.397	78.640	0.00	0.00
ATOM	5362	O	VAL	353	55.421	69.008	78.437	0.00	0.00
ATOM	5363	N	THR	354	53.694	67.962	77.529	0.00	0.00
ATOM	5364	H	THR	354	52.791	67.527	77.656	0.00	0.00
ATOM	5365	CA	THR	354	53.878	68.521	76.224	0.00	0.00
ATOM	5366	HA	THR	354	54.923	68.779	76.057	0.00	0.00
ATOM	5367	CB	THR	354	53.334	67.602	75.195	0.00	0.00
ATOM	5368	HB	THR	354	53.497	68.022	74.203	0.00	0.00
ATOM	5369	CG2	THR	354	54.050	66.244	75.159	0.00	0.00
ATOM	5370	1HG2	THR	354	53.519	65.793	74.321	0.00	0.00
ATOM	5371	2HG2	THR	354	55.101	66.262	74.871	0.00	0.00
ATOM	5372	3HG2	THR	354	53.828	65.683	76.066	0.00	0.00
ATOM	5373	OG1	THR	354	51.972	67.377	75.511	0.00	0.00
ATOM	5374	HG1	THR	354	51.525	66.987	74.756	0.00	0.00
ATOM	5375	C	THR	354	53.212	69.921	75.890	0.00	0.00
ATOM	5376	O	THR	354	53.644	70.471	74.899	0.00	0.00
ATOM	5377	N	THR	355	52.416	70.485	76.788	0.00	0.00
ATOM	5378	H	THR	355	52.184	70.003	77.645	0.00	0.00
ATOM	5379	CA	THR	355	51.502	71.562	76.473	0.00	0.00
ATOM	5380	HA	THR	355	51.795	72.058	75.548	0.00	0.00
ATOM	5381	CB	THR	355	50.123	70.943	76.393	0.00	0.00

ATOM	5382	HB	THR	355	50.027	70.473	77.372	0.00	0.00
ATOM	5383	CG2	THR	355	48.986	71.872	76.210	0.00	0.00
ATOM	5384	1HG2	THR	355	49.080	72.802	76.772	0.00	0.00
ATOM	5385	2HG2	THR	355	49.037	72.131	75.153	0.00	0.00
ATOM	5386	3HG2	THR	355	48.060	71.404	76.544	0.00	0.00
ATOM	5387	OG1	THR	355	50.036	69.970	75.351	0.00	0.00
ATOM	5388	HG1	THR	355	50.388	69.143	75.690	0.00	0.00
ATOM	5389	C	THR	355	51.591	72.536	77.650	0.00	0.00
ATOM	5390	O	THR	355	51.390	72.193	78.808	0.00	0.00
ATOM	5391	N	MET	356	51.978	73.768	77.424	0.00	0.00
ATOM	5392	H	MET	356	52.254	73.992	76.479	0.00	0.00
ATOM	5393	CA	MET	356	52.335	74.706	78.486	0.00	0.00
ATOM	5394	HA	MET	356	52.062	74.298	79.459	0.00	0.00
ATOM	5395	CB	MET	356	53.833	75.062	78.419	0.00	0.00
ATOM	5396	HB2	MET	356	54.176	75.369	77.431	0.00	0.00
ATOM	5397	HB3	MET	356	53.957	75.939	79.053	0.00	0.00
ATOM	5398	CG	MET	356	54.757	73.909	78.907	0.00	0.00
ATOM	5399	HG2	MET	356	54.241	73.346	79.684	0.00	0.00
ATOM	5400	HG3	MET	356	54.939	73.251	78.057	0.00	0.00
ATOM	5401	SD	MET	356	56.332	74.274	79.614	0.00	0.00
ATOM	5402	CE	MET	356	56.841	72.682	80.211	0.00	0.00
ATOM	5403	HE1	MET	356	56.131	72.270	80.928	0.00	0.00
ATOM	5404	HE2	MET	356	57.225	72.001	79.451	0.00	0.00
ATOM	5405	HE3	MET	356	57.739	72.749	80.824	0.00	0.00
ATOM	5406	C	MET	356	51.441	75.991	78.358	0.00	0.00
ATOM	5407	O	MET	356	51.532	76.716	77.385	0.00	0.00

ATOM	5408	N	VAL	357	50.568	76.217	79.323	0.00	0.00
ATOM	5409	H	VAL	357	50.541	75.583	80.109	0.00	0.00
ATOM	5410	CA	VAL	357	49.785	77.406	79.580	0.00	0.00
ATOM	5411	HA	VAL	357	49.818	78.024	78.682	0.00	0.00
ATOM	5412	CB	VAL	357	48.295	77.135	79.839	0.00	0.00
ATOM	5413	HB	VAL	357	48.107	76.432	80.651	0.00	0.00
ATOM	5414	CG1	VAL	357	47.570	78.462	80.264	0.00	0.00
ATOM	5415	1HG1	VAL	357	47.824	78.853	81.249	0.00	0.00
ATOM	5416	2HG1	VAL	357	47.673	79.215	79.483	0.00	0.00
ATOM	5417	3HG1	VAL	357	46.515	78.214	80.383	0.00	0.00
ATOM	5418	CG2	VAL	357	47.560	76.649	78.620	0.00	0.00
ATOM	5419	1HG2	VAL	357	48.051	75.750	78.247	0.00	0.00
ATOM	5420	2HG2	VAL	357	46.535	76.308	78.773	0.00	0.00
ATOM	5421	3HG2	VAL	357	47.506	77.378	77.811	0.00	0.00
ATOM	5422	C	VAL	357	50.490	78.164	80.724	0.00	0.00
ATOM	5423	O	VAL	357	50.821	77.523	81.758	0.00	0.00
ATOM	5424	N	GLY	358	50.883	79.471	80.459	0.00	0.00
ATOM	5425	H	GLY	358	50.598	80.002	79.649	0.00	0.00
ATOM	5426	CA	GLY	358	51.973	80.052	81.221	0.00	0.00
ATOM	5427	HA2	GLY	358	51.939	79.746	82.266	0.00	0.00
ATOM	5428	HA3	GLY	358	52.915	79.565	80.971	0.00	0.00
ATOM	5429	C	GLY	358	52.153	81.554	81.015	0.00	0.00
ATOM	5430	O	GLY	358	51.360	82.127	80.306	0.00	0.00
ATOM	5431	N	GLY	359	53.093	82.218	81.685	0.00	0.00
ATOM	5432	H	GLY	359	53.733	81.691	82.262	0.00	0.00
ATOM	5433	CA	GLY	359	53.432	83.605	81.536	0.00	0.00

ATOM	5434	HA2	GLY	359	52.574	84.088	82.003	0.00	0.00
ATOM	5435	HA3	GLY	359	53.522	83.941	80.503	0.00	0.00
ATOM	5436	C	GLY	359	54.662	83.970	82.268	0.00	0.00
ATOM	5437	O	GLY	359	55.313	83.179	82.998	0.00	0.00
ATOM	5438	N	GLY	360	55.144	85.176	81.837	0.00	0.00
ATOM	5439	H	GLY	360	54.579	85.633	81.135	0.00	0.00
ATOM	5440	CA	GLY	360	56.396	85.755	82.140	0.00	0.00
ATOM	5441	HA2	GLY	360	56.221	86.600	82.807	0.00	0.00
ATOM	5442	HA3	GLY	360	56.991	85.086	82.762	0.00	0.00
ATOM	5443	C	GLY	360	57.266	86.213	81.006	0.00	0.00
ATOM	5444	O	GLY	360	56.991	86.022	79.811	0.00	0.00
ATOM	5445	N	THR	361	58.341	86.836	81.435	0.00	0.00
ATOM	5446	H	THR	361	58.356	86.909	82.442	0.00	0.00
ATOM	5447	CA	THR	361	59.380	87.539	80.598	0.00	0.00
ATOM	5448	HA	THR	361	58.973	87.542	79.587	0.00	0.00
ATOM	5449	CB	THR	361	59.534	89.060	81.058	0.00	0.00
ATOM	5450	HB	THR	361	60.218	89.471	80.315	0.00	0.00
ATOM	5451	CG2	THR	361	58.202	89.858	80.996	0.00	0.00
ATOM	5452	1HG2	THR	361	57.543	89.776	81.860	0.00	0.00
ATOM	5453	2HG2	THR	361	58.355	90.924	80.827	0.00	0.00
ATOM	5454	3HG2	THR	361	57.655	89.491	80.127	0.00	0.00
ATOM	5455	OG1	THR	361	60.117	89.229	82.316	0.00	0.00
ATOM	5456	HG1	THR	361	59.485	89.493	82.988	0.00	0.00
ATOM	5457	C	THR	361	60.861	86.959	80.583	0.00	0.00
ATOM	5458	O	THR	361	61.675	87.204	79.665	0.00	0.00
ATOM	5459	N	GLY	362	61.232	86.283	81.648	0.00	0.00

ATOM	5460	H	GLY	362	60.499	86.004	82.285	0.00	0.00
ATOM	5461	CA	GLY	362	62.594	85.799	81.874	0.00	0.00
ATOM	5462	HA2	GLY	362	62.497	84.716	81.812	0.00	0.00
ATOM	5463	HA3	GLY	362	63.276	86.241	81.147	0.00	0.00
ATOM	5464	C	GLY	362	62.982	86.081	83.361	0.00	0.00
ATOM	5465	O	GLY	362	62.094	86.297	84.236	0.00	0.00
ATOM	5466	N	PRO	363	64.282	86.237	83.637	0.00	0.00
ATOM	5467	CD	PRO	363	65.350	85.793	82.815	0.00	0.00
ATOM	5468	HD2	PRO	363	65.087	84.972	82.148	0.00	0.00
ATOM	5469	HD3	PRO	363	65.754	86.681	82.330	0.00	0.00
ATOM	5470	CG	PRO	363	66.352	85.384	83.781	0.00	0.00
ATOM	5471	HG2	PRO	363	66.155	84.366	84.118	0.00	0.00
ATOM	5472	HG3	PRO	363	67.258	85.455	83.179	0.00	0.00
ATOM	5473	CB	PRO	363	66.270	86.534	84.798	0.00	0.00
ATOM	5474	HB2	PRO	363	66.752	86.225	85.726	0.00	0.00
ATOM	5475	HB3	PRO	363	66.636	87.432	84.301	0.00	0.00
ATOM	5476	CA	PRO	363	64.797	86.690	84.933	0.00	0.00
ATOM	5477	HA	PRO	363	64.314	86.007	85.633	0.00	0.00
ATOM	5478	C	PRO	363	64.438	88.124	85.432	0.00	0.00
ATOM	5479	O	PRO	363	65.313	88.935	85.529	0.00	0.00
ATOM	5480	N	ALA	364	63.191	88.451	85.810	0.00	0.00
ATOM	5481	H	ALA	364	62.475	87.789	85.546	0.00	0.00
ATOM	5482	CA	ALA	364	62.818	89.762	86.277	0.00	0.00
ATOM	5483	HA	ALA	364	63.654	90.433	86.473	0.00	0.00
ATOM	5484	CB	ALA	364	61.998	90.398	85.210	0.00	0.00
ATOM	5485	HB1	ALA	364	62.527	90.331	84.260	0.00	0.00

ATOM	5486	HB2	ALA	364	61.155	89.729	85.041	0.00	0.00
ATOM	5487	HB3	ALA	364	61.833	91.461	85.391	0.00	0.00
ATOM	5488	C	ALA	364	62.040	89.519	87.570	0.00	0.00
ATOM	5489	O	ALA	364	61.396	88.551	87.735	0.00	0.00
ATOM	5490	N	ALA	365	62.131	90.540	88.423	0.00	0.00
ATOM	5491	H	ALA	365	62.476	91.463	88.202	0.00	0.00
ATOM	5492	CA	ALA	365	61.473	90.515	89.704	0.00	0.00
ATOM	5493	HA	ALA	365	62.037	89.843	90.351	0.00	0.00
ATOM	5494	CB	ALA	365	61.700	91.831	90.404	0.00	0.00
ATOM	5495	HB1	ALA	365	61.208	92.683	89.936	0.00	0.00
ATOM	5496	HB2	ALA	365	61.437	91.709	91.454	0.00	0.00
ATOM	5497	HB3	ALA	365	62.762	92.075	90.399	0.00	0.00
ATOM	5498	C	ALA	365	59.997	90.108	89.593	0.00	0.00
ATOM	5499	O	ALA	365	59.559	89.295	90.382	0.00	0.00
ATOM	5500	N	GLY	366	59.298	90.640	88.584	0.00	0.00
ATOM	5501	H	GLY	366	59.823	91.314	88.045	0.00	0.00
ATOM	5502	CA	GLY	366	57.842	90.316	88.334	0.00	0.00
ATOM	5503	HA2	GLY	366	57.246	90.268	89.246	0.00	0.00
ATOM	5504	HA3	GLY	366	57.364	91.025	87.657	0.00	0.00
ATOM	5505	C	GLY	366	57.602	88.901	87.813	0.00	0.00
ATOM	5506	O	GLY	366	56.834	88.186	88.426	0.00	0.00
ATOM	5507	N	THR	367	58.432	88.313	86.952	0.00	0.00
ATOM	5508	H	THR	367	59.094	88.895	86.458	0.00	0.00
ATOM	5509	CA	THR	367	58.383	86.876	86.577	0.00	0.00
ATOM	5510	HA	THR	367	57.348	86.577	86.411	0.00	0.00
ATOM	5511	CB	THR	367	59.146	86.750	85.196	0.00	0.00

ATOM	5512	HB	THR	367	60.148	87.167	85.285	0.00	0.00
ATOM	5513	CG2	THR	367	59.185	85.352	84.548	0.00	0.00
ATOM	5514	1HG2	THR	367	58.223	84.844	84.623	0.00	0.00
ATOM	5515	2HG2	THR	367	59.590	85.492	83.546	0.00	0.00
ATOM	5516	3HG2	THR	367	59.864	84.776	85.176	0.00	0.00
ATOM	5517	OG1	THR	367	58.551	87.560	84.238	0.00	0.00
ATOM	5518	HG1	THR	367	58.669	88.469	84.525	0.00	0.00
ATOM	5519	C	THR	367	58.886	85.890	87.598	0.00	0.00
ATOM	5520	O	THR	367	58.303	84.861	87.800	0.00	0.00
ATOM	5521	N	HIE	368	59.845	86.317	88.475	0.00	0.00
ATOM	5522	H	HIE	368	60.196	87.238	88.253	0.00	0.00
ATOM	5523	CA	HIE	368	60.270	85.587	89.704	0.00	0.00
ATOM	5524	HA	HIE	368	60.650	84.613	89.395	0.00	0.00
ATOM	5525	CB	HIE	368	61.465	86.287	90.367	0.00	0.00
ATOM	5526	HB2	HIE	368	61.254	87.309	90.683	0.00	0.00
ATOM	5527	HB3	HIE	368	61.663	85.870	91.354	0.00	0.00
ATOM	5528	CG	HIE	368	62.740	86.194	89.601	0.00	0.00
ATOM	5529	ND1	HIE	368	63.958	86.890	89.900	0.00	0.00
ATOM	5530	CE1	HIE	368	64.857	86.472	88.945	0.00	0.00
ATOM	5531	HE1	HIE	368	65.914	86.689	88.941	0.00	0.00
ATOM	5532	NE2	HIE	368	64.224	85.642	88.100	0.00	0.00
ATOM	5533	HE2	HIE	368	64.687	85.108	87.379	0.00	0.00
ATOM	5534	CD2	HIE	368	62.940	85.469	88.502	0.00	0.00
ATOM	5535	HD2	HIE	368	62.225	84.834	88.001	0.00	0.00
ATOM	5536	C	HIE	368	59.178	85.430	90.857	0.00	0.00
ATOM	5537	O	HIE	368	59.200	84.451	91.559	0.00	0.00



ATOM	5538	N	ALA	369	58.261	86.365	90.889	0.00	0.00
ATOM	5539	H	ALA	369	58.342	87.198	90.323	0.00	0.00
ATOM	5540	CA	ALA	369	57.080	86.341	91.780	0.00	0.00
ATOM	5541	HA	ALA	369	57.240	85.725	92.664	0.00	0.00
ATOM	5542	CB	ALA	369	56.923	87.754	92.202	0.00	0.00
ATOM	5543	HB1	ALA	369	57.874	88.174	92.528	0.00	0.00
ATOM	5544	HB2	ALA	369	56.139	87.822	92.955	0.00	0.00
ATOM	5545	HB3	ALA	369	56.679	88.317	91.301	0.00	0.00
ATOM	5546	C	ALA	369	55.823	85.834	91.075	0.00	0.00
ATOM	5547	O	ALA	369	54.985	85.117	91.686	0.00	0.00
ATOM	5548	N	THR	370	55.619	86.177	89.794	0.00	0.00
ATOM	5549	H	THR	370	56.368	86.731	89.404	0.00	0.00
ATOM	5550	CA	THR	370	54.281	86.188	89.128	0.00	0.00
ATOM	5551	HA	THR	370	53.663	85.515	89.722	0.00	0.00
ATOM	5552	CB	THR	370	53.564	87.543	89.026	0.00	0.00
ATOM	5553	HB	THR	370	52.498	87.371	88.874	0.00	0.00
ATOM	5554	CG2	THR	370	53.855	88.533	90.170	0.00	0.00
ATOM	5555	1HG2	THR	370	54.841	88.987	90.067	0.00	0.00
ATOM	5556	2HG2	THR	370	53.055	89.271	90.108	0.00	0.00
ATOM	5557	3HG2	THR	370	53.796	87.995	91.115	0.00	0.00
ATOM	5558	OG1	THR	370	53.994	88.074	87.753	0.00	0.00
ATOM	5559	HG1	THR	370	54.952	88.013	87.765	0.00	0.00
ATOM	5560	C	THR	370	54.304	85.410	87.772	0.00	0.00
ATOM	5561	O	THR	370	55.285	85.448	87.090	0.00	0.00
ATOM	5562	N	THR	371	53.185	84.849	87.377	0.00	0.00
ATOM	5563	H	THR	371	52.472	84.668	88.069	0.00	0.00

ATOM	5564	CA	THR	371	52.921	84.500	86.015	0.00	0.00
ATOM	5565	HA	THR	371	53.794	84.098	85.501	0.00	0.00
ATOM	5566	CB	THR	371	51.922	83.278	85.945	0.00	0.00
ATOM	5567	HB	THR	371	50.896	83.572	85.725	0.00	0.00
ATOM	5568	CG2	THR	371	52.197	82.133	84.977	0.00	0.00
ATOM	5569	1HG2	THR	371	51.430	81.362	85.046	0.00	0.00
ATOM	5570	2HG2	THR	371	52.087	82.609	84.002	0.00	0.00
ATOM	5571	3HG2	THR	371	53.176	81.676	85.126	0.00	0.00
ATOM	5572	OG1	THR	371	51.885	82.655	87.202	0.00	0.00
ATOM	5573	HG1	THR	371	52.765	82.334	87.412	0.00	0.00
ATOM	5574	C	THR	371	52.415	85.672	85.105	0.00	0.00
ATOM	5575	O	THR	371	51.841	85.329	84.086	0.00	0.00
ATOM	5576	N	CYS	372	52.418	86.920	85.597	0.00	0.00
ATOM	5577	H	CYS	372	52.940	87.145	86.431	0.00	0.00
ATOM	5578	CA	CYS	372	51.632	87.928	84.952	0.00	0.00
ATOM	5579	HA	CYS	372	50.765	87.398	84.558	0.00	0.00
ATOM	5580	CB	CYS	372	51.150	88.939	86.026	0.00	0.00
ATOM	5581	HB2	CYS	372	52.030	89.257	86.584	0.00	0.00
ATOM	5582	HB3	CYS	372	50.661	89.710	85.430	0.00	0.00
ATOM	5583	SG	CYS	372	50.098	88.121	87.213	0.00	0.00
ATOM	5584	HG	CYS	372	49.328	89.202	87.367	0.00	0.00
ATOM	5585	C	CYS	372	52.438	88.518	83.806	0.00	0.00
ATOM	5586	O	CYS	372	53.274	89.463	83.972	0.00	0.00
ATOM	5587	N	THR	373	52.114	88.101	82.562	0.00	0.00
ATOM	5588	H	THR	373	51.305	87.506	82.455	0.00	0.00
ATOM	5589	CA	THR	373	52.869	88.522	81.345	0.00	0.00

ATOM	5590	HA	THR	373	53.892	88.474	81.719	0.00	0.00
ATOM	5591	CB	THR	373	52.707	87.612	80.112	0.00	0.00
ATOM	5592	HB	THR	373	51.698	87.826	79.761	0.00	0.00
ATOM	5593	CG2	THR	373	53.765	87.924	78.967	0.00	0.00
ATOM	5594	1HG2	THR	373	53.753	87.040	78.329	0.00	0.00
ATOM	5595	2HG2	THR	373	53.505	88.719	78.268	0.00	0.00
ATOM	5596	3HG2	THR	373	54.804	88.138	79.215	0.00	0.00
ATOM	5597	OG1	THR	373	52.862	86.272	80.472	0.00	0.00
ATOM	5598	HG1	THR	373	52.015	86.150	80.905	0.00	0.00
ATOM	5599	C	THR	373	52.528	89.956	80.944	0.00	0.00
ATOM	5600	O	THR	373	51.341	90.131	80.584	0.00	0.00
ATOM	5601	N	PRO	374	53.399	90.989	80.884	0.00	0.00
ATOM	5602	CD	PRO	374	54.831	90.922	81.110	0.00	0.00
ATOM	5603	HD2	PRO	374	55.465	90.679	80.258	0.00	0.00
ATOM	5604	HD3	PRO	374	54.900	90.267	81.979	0.00	0.00
ATOM	5605	CG	PRO	374	55.242	92.268	81.643	0.00	0.00
ATOM	5606	HG2	PRO	374	55.729	92.194	82.615	0.00	0.00
ATOM	5607	HG3	PRO	374	55.827	92.785	80.882	0.00	0.00
ATOM	5608	CB	PRO	374	53.953	93.033	81.775	0.00	0.00
ATOM	5609	HB2	PRO	374	53.557	93.042	82.790	0.00	0.00
ATOM	5610	HB3	PRO	374	54.016	94.081	81.483	0.00	0.00
ATOM	5611	CA	PRO	374	52.982	92.387	80.873	0.00	0.00
ATOM	5612	HA	PRO	374	51.965	92.507	81.243	0.00	0.00
ATOM	5613	C	PRO	374	52.992	92.983	79.541	0.00	0.00
ATOM	5614	O	PRO	374	53.953	93.092	78.826	0.00	0.00
ATOM	5615	N	GLY	375	51.814	93.471	79.132	0.00	0.00

ATOM	5616	H	GLY	375	51.005	93.365	79.727	0.00	0.00
ATOM	5617	CA	GLY	375	51.657	94.376	77.994	0.00	0.00
ATOM	5618	HA2	GLY	375	50.740	94.951	78.122	0.00	0.00
ATOM	5619	HA3	GLY	375	52.472	95.071	78.193	0.00	0.00
ATOM	5620	C	GLY	375	51.909	93.816	76.590	0.00	0.00
ATOM	5621	O	GLY	375	52.519	92.770	76.461	0.00	0.00
ATOM	5622	N	PRO	376	51.295	94.438	75.568	0.00	0.00
ATOM	5623	CD	PRO	376	50.436	95.631	75.681	0.00	0.00
ATOM	5624	HD2	PRO	376	49.568	95.548	76.335	0.00	0.00
ATOM	5625	HD3	PRO	376	51.042	96.486	75.982	0.00	0.00
ATOM	5626	CG	PRO	376	50.010	95.934	74.272	0.00	0.00
ATOM	5627	HG2	PRO	376	48.995	95.646	73.996	0.00	0.00
ATOM	5628	HG3	PRO	376	50.125	97.002	74.086	0.00	0.00
ATOM	5629	CB	PRO	376	51.139	95.307	73.394	0.00	0.00
ATOM	5630	HB2	PRO	376	50.807	95.045	72.389	0.00	0.00
ATOM	5631	HB3	PRO	376	51.927	96.003	73.106	0.00	0.00
ATOM	5632	CA	PRO	376	51.564	94.106	74.189	0.00	0.00
ATOM	5633	HA	PRO	376	50.875	93.276	74.036	0.00	0.00
ATOM	5634	C	PRO	376	53.014	93.709	73.782	0.00	0.00
ATOM	5635	O	PRO	376	53.265	92.639	73.198	0.00	0.00
ATOM	5636	N	TRP	377	54.013	94.547	74.146	0.00	0.00
ATOM	5637	H	TRP	377	53.752	95.403	74.614	0.00	0.00
ATOM	5638	CA	TRP	377	55.432	94.377	73.741	0.00	0.00
ATOM	5639	HA	TRP	377	55.512	94.145	72.679	0.00	0.00
ATOM	5640	CB	TRP	377	56.240	95.633	74.249	0.00	0.00
ATOM	5641	HB2	TRP	377	55.669	96.561	74.230	0.00	0.00

ATOM	5642	HB3	TRP	377	56.596	95.386	75.249	0.00	0.00
ATOM	5643	CG	TRP	377	57.490	95.942	73.461	0.00	0.00
ATOM	5644	CD1	TRP	377	57.583	96.617	72.268	0.00	0.00
ATOM	5645	HD1	TRP	377	56.732	97.023	71.741	0.00	0.00
ATOM	5646	NE1	TRP	377	58.844	96.464	71.740	0.00	0.00
ATOM	5647	HE1	TRP	377	59.127	96.908	70.879	0.00	0.00
ATOM	5648	CE2	TRP	377	59.642	95.632	72.504	0.00	0.00
ATOM	5649	CZ2	TRP	377	60.918	95.091	72.286	0.00	0.00
ATOM	5650	HZ2	TRP	377	61.471	95.157	71.361	0.00	0.00
ATOM	5651	CH2	TRP	377	61.486	94.326	73.323	0.00	0.00
ATOM	5652	HH2	TRP	377	62.453	93.871	73.163	0.00	0.00
ATOM	5653	CZ3	TRP	377	60.728	93.916	74.370	0.00	0.00
ATOM	5654	HZ3	TRP	377	61.126	93.206	75.080	0.00	0.00
ATOM	5655	CE3	TRP	377	59.451	94.417	74.559	0.00	0.00
ATOM	5656	HE3	TRP	377	58.890	94.075	75.416	0.00	0.00
ATOM	5657	CD2	TRP	377	58.861	95.269	73.654	0.00	0.00
ATOM	5658	C	TRP	377	56.105	93.174	74.301	0.00	0.00
ATOM	5659	O	TRP	377	56.689	92.358	73.566	0.00	0.00
ATOM	5660	N	TYR	378	55.964	92.925	75.563	0.00	0.00
ATOM	5661	H	TYR	378	55.419	93.582	76.103	0.00	0.00
ATOM	5662	CA	TYR	378	56.516	91.679	76.105	0.00	0.00
ATOM	5663	HA	TYR	378	57.475	91.504	75.617	0.00	0.00
ATOM	5664	CB	TYR	378	56.729	91.713	77.636	0.00	0.00
ATOM	5665	HB2	TYR	378	56.336	92.545	78.221	0.00	0.00
ATOM	5666	HB3	TYR	378	56.295	90.852	78.144	0.00	0.00
ATOM	5667	CG	TYR	378	58.220	91.649	77.995	0.00	0.00

ATOM	5668	CD1	TYR	378	59.021	92.774	78.335	0.00	0.00
ATOM	5669	HD1	TYR	378	58.522	93.719	78.491	0.00	0.00
ATOM	5670	CE1	TYR	378	60.424	92.683	78.453	0.00	0.00
ATOM	5671	HE1	TYR	378	60.991	93.572	78.684	0.00	0.00
ATOM	5672	CZ	TYR	378	61.005	91.446	78.296	0.00	0.00
ATOM	5673	OH	TYR	378	62.316	91.435	78.428	0.00	0.00
ATOM	5674	HH	TYR	378	62.777	92.265	78.286	0.00	0.00
ATOM	5675	CE2	TYR	378	60.285	90.335	77.932	0.00	0.00
ATOM	5676	HE2	TYR	378	60.813	89.399	77.818	0.00	0.00
ATOM	5677	CD2	TYR	378	58.871	90.470	77.695	0.00	0.00
ATOM	5678	HD2	TYR	378	58.221	89.659	77.404	0.00	0.00
ATOM	5679	C	TYR	378	55.692	90.382	75.751	0.00	0.00
ATOM	5680	O	TYR	378	56.340	89.335	75.593	0.00	0.00
ATOM	5681	N	ILE	379	54.377	90.446	75.545	0.00	0.00
ATOM	5682	H	ILE	379	53.964	91.320	75.837	0.00	0.00
ATOM	5683	CA	ILE	379	53.596	89.347	74.930	0.00	0.00
ATOM	5684	HA	ILE	379	53.521	88.427	75.509	0.00	0.00
ATOM	5685	CB	ILE	379	52.142	89.882	74.778	0.00	0.00
ATOM	5686	HB	ILE	379	52.123	90.937	74.504	0.00	0.00
ATOM	5687	CG2	ILE	379	51.176	89.113	73.868	0.00	0.00
ATOM	5688	1HG2	ILE	379	50.958	88.130	74.284	0.00	0.00
ATOM	5689	2HG2	ILE	379	50.199	89.583	73.752	0.00	0.00
ATOM	5690	3HG2	ILE	379	51.612	88.881	72.896	0.00	0.00
ATOM	5691	CG1	ILE	379	51.470	89.824	76.190	0.00	0.00
ATOM	5692	2HG1	ILE	379	51.261	88.799	76.496	0.00	0.00
ATOM	5693	3HG1	ILE	379	52.137	90.316	76.898	0.00	0.00

ATOM	5694	CD1	ILE	379	50.135	90.552	76.390	0.00	0.00
ATOM	5695	1HD1	ILE	379	49.946	90.672	77.457	0.00	0.00
ATOM	5696	2HD1	ILE	379	50.229	91.539	75.937	0.00	0.00
ATOM	5697	3HD1	ILE	379	49.272	90.069	75.932	0.00	0.00
ATOM	5698	C	ILE	379	54.237	89.018	73.564	0.00	0.00
ATOM	5699	O	ILE	379	54.485	87.844	73.250	0.00	0.00
ATOM	5700	N	SER	380	54.396	90.033	72.705	0.00	0.00
ATOM	5701	H	SER	380	54.114	90.917	73.103	0.00	0.00
ATOM	5702	CA	SER	380	54.752	89.895	71.289	0.00	0.00
ATOM	5703	HA	SER	380	54.135	89.106	70.860	0.00	0.00
ATOM	5704	CB	SER	380	54.709	91.249	70.557	0.00	0.00
ATOM	5705	HB2	SER	380	55.312	92.063	70.960	0.00	0.00
ATOM	5706	HB3	SER	380	54.851	91.015	69.502	0.00	0.00
ATOM	5707	OG	SER	380	53.393	91.712	70.719	0.00	0.00
ATOM	5708	HG	SER	380	53.335	92.002	71.632	0.00	0.00
ATOM	5709	C	SER	380	56.118	89.224	71.175	0.00	0.00
ATOM	5710	O	SER	380	56.217	88.248	70.455	0.00	0.00
ATOM	5711	N	ARG	381	57.179	89.668	71.891	0.00	0.00
ATOM	5712	H	ARG	381	57.029	90.398	72.573	0.00	0.00
ATOM	5713	CA	ARG	381	58.458	88.928	71.993	0.00	0.00
ATOM	5714	HA	ARG	381	58.820	88.968	70.966	0.00	0.00
ATOM	5715	CB	ARG	381	59.434	89.689	72.794	0.00	0.00
ATOM	5716	HB2	ARG	381	60.232	88.956	72.919	0.00	0.00
ATOM	5717	HB3	ARG	381	59.037	90.148	73.699	0.00	0.00
ATOM	5718	CG	ARG	381	60.141	90.845	71.912	0.00	0.00
ATOM	5719	HG2	ARG	381	60.823	91.370	72.582	0.00	0.00

ATOM	5720	HG3	ARG	381	60.581	90.358	71.042	0.00	0.00
ATOM	5721	CD	ARG	381	59.324	92.000	71.355	0.00	0.00
ATOM	5722	HD2	ARG	381	58.577	92.306	72.087	0.00	0.00
ATOM	5723	HD3	ARG	381	60.018	92.837	71.267	0.00	0.00
ATOM	5724	NE	ARG	381	58.550	91.813	70.151	0.00	0.00
ATOM	5725	HE	ARG	381	58.871	91.093	69.519	0.00	0.00
ATOM	5726	CZ	ARG	381	57.763	92.638	69.568	0.00	0.00
ATOM	5727	NH1	ARG	381	57.340	92.326	68.386	0.00	0.00
ATOM	5728	1HH1	ARG	381	57.031	93.066	67.772	0.00	0.00
ATOM	5729	2HH1	ARG	381	57.725	91.489	67.972	0.00	0.00
ATOM	5730	NH2	ARG	381	57.364	93.706	70.152	0.00	0.00
ATOM	5731	1HH2	ARG	381	56.644	94.275	69.730	0.00	0.00
ATOM	5732	2HH2	ARG	381	57.848	93.963	71.000	0.00	0.00
ATOM	5733	C	ARG	381	58.357	87.487	72.565	0.00	0.00
ATOM	5734	O	ARG	381	58.870	86.534	71.955	0.00	0.00
ATOM	5735	N	MET	382	57.593	87.279	73.661	0.00	0.00
ATOM	5736	H	MET	382	57.214	88.076	74.151	0.00	0.00
ATOM	5737	CA	MET	382	57.306	85.822	74.019	0.00	0.00
ATOM	5738	HA	MET	382	58.287	85.415	74.263	0.00	0.00
ATOM	5739	CB	MET	382	56.566	85.734	75.338	0.00	0.00
ATOM	5740	HB2	MET	382	57.097	86.442	75.974	0.00	0.00
ATOM	5741	HB3	MET	382	55.545	86.062	75.141	0.00	0.00
ATOM	5742	CG	MET	382	56.500	84.362	75.947	0.00	0.00
ATOM	5743	HG2	MET	382	56.064	84.481	76.939	0.00	0.00
ATOM	5744	HG3	MET	382	55.838	83.861	75.242	0.00	0.00
ATOM	5745	SD	MET	382	57.983	83.369	76.179	0.00	0.00



ATOM	5746	CE	MET	382	58.856	84.276	77.513	0.00	0.00
ATOM	5747	HE1	MET	382	59.830	83.800	77.634	0.00	0.00
ATOM	5748	HE2	MET	382	58.878	85.344	77.297	0.00	0.00
ATOM	5749	HE3	MET	382	58.296	84.088	78.428	0.00	0.00
ATOM	5750	C	MET	382	56.641	84.952	72.960	0.00	0.00
ATOM	5751	O	MET	382	57.041	83.861	72.706	0.00	0.00
ATOM	5752	N	LEU	383	55.695	85.524	72.186	0.00	0.00
ATOM	5753	H	LEU	383	55.442	86.470	72.430	0.00	0.00
ATOM	5754	CA	LEU	383	55.170	84.742	71.062	0.00	0.00
ATOM	5755	HA	LEU	383	54.936	83.719	71.358	0.00	0.00
ATOM	5756	CB	LEU	383	53.964	85.343	70.439	0.00	0.00
ATOM	5757	HB2	LEU	383	54.225	86.388	70.271	0.00	0.00
ATOM	5758	HB3	LEU	383	53.801	84.858	69.476	0.00	0.00
ATOM	5759	CG	LEU	383	52.749	85.170	71.428	0.00	0.00
ATOM	5760	HG	LEU	383	53.067	85.469	72.427	0.00	0.00
ATOM	5761	CD1	LEU	383	51.585	86.076	71.004	0.00	0.00
ATOM	5762	1HD1	LEU	383	51.927	87.110	70.981	0.00	0.00
ATOM	5763	2HD1	LEU	383	51.224	85.828	70.006	0.00	0.00
ATOM	5764	3HD1	LEU	383	50.868	86.084	71.825	0.00	0.00
ATOM	5765	CD2	LEU	383	52.090	83.733	71.705	0.00	0.00
ATOM	5766	1HD2	LEU	383	51.465	83.442	70.862	0.00	0.00
ATOM	5767	2HD2	LEU	383	52.984	83.133	71.873	0.00	0.00
ATOM	5768	3HD2	LEU	383	51.434	83.773	72.575	0.00	0.00
ATOM	5769	C	LEU	383	56.238	84.561	69.901	0.00	0.00
ATOM	5770	O	LEU	383	56.294	83.540	69.266	0.00	0.00
ATOM	5771	N	GLN	384	57.124	85.522	69.661	0.00	0.00

ATOM	5772	H	GLN	384	56.990	86.315	70.272	0.00	0.00
ATOM	5773	CA	GLN	384	58.397	85.367	68.912	0.00	0.00
ATOM	5774	HA	GLN	384	58.104	84.964	67.943	0.00	0.00
ATOM	5775	CB	GLN	384	59.011	86.745	68.609	0.00	0.00
ATOM	5776	HB2	GLN	384	58.890	87.414	69.461	0.00	0.00
ATOM	5777	HB3	GLN	384	60.073	86.601	68.410	0.00	0.00
ATOM	5778	CG	GLN	384	58.276	87.464	67.458	0.00	0.00
ATOM	5779	HG2	GLN	384	58.492	86.852	66.581	0.00	0.00
ATOM	5780	HG3	GLN	384	57.197	87.434	67.609	0.00	0.00
ATOM	5781	CD	GLN	384	58.688	88.932	67.381	0.00	0.00
ATOM	5782	OE1	GLN	384	58.532	89.729	68.276	0.00	0.00
ATOM	5783	NE2	GLN	384	59.295	89.364	66.302	0.00	0.00
ATOM	5784	1HE2	GLN	384	59.700	90.289	66.286	0.00	0.00
ATOM	5785	2HE2	GLN	384	59.233	88.815	65.456	0.00	0.00
ATOM	5786	C	GLN	384	59.395	84.304	69.426	0.00	0.00
ATOM	5787	O	GLN	384	60.238	83.790	68.656	0.00	0.00
ATOM	5788	N	ALA	385	59.305	83.951	70.698	0.00	0.00
ATOM	5789	H	ALA	385	58.698	84.539	71.251	0.00	0.00
ATOM	5790	CA	ALA	385	60.166	82.921	71.275	0.00	0.00
ATOM	5791	HA	ALA	385	61.057	82.712	70.684	0.00	0.00
ATOM	5792	CB	ALA	385	60.623	83.452	72.638	0.00	0.00
ATOM	5793	HB1	ALA	385	61.346	82.784	73.106	0.00	0.00
ATOM	5794	HB2	ALA	385	61.237	84.344	72.508	0.00	0.00
ATOM	5795	HB3	ALA	385	59.780	83.657	73.298	0.00	0.00
ATOM	5796	C	ALA	385	59.523	81.551	71.331	0.00	0.00
ATOM	5797	O	ALA	385	60.218	80.524	71.143	0.00	0.00

ATOM	5798	N	ALA	386	58.265	81.503	71.731	0.00	0.00
ATOM	5799	H	ALA	386	57.774	82.380	71.831	0.00	0.00
ATOM	5800	CA	ALA	386	57.576	80.334	72.016	0.00	0.00
ATOM	5801	HA	ALA	386	58.188	79.625	72.575	0.00	0.00
ATOM	5802	CB	ALA	386	56.364	80.769	72.833	0.00	0.00
ATOM	5803	HB1	ALA	386	56.753	81.156	73.775	0.00	0.00
ATOM	5804	HB2	ALA	386	55.814	81.556	72.318	0.00	0.00
ATOM	5805	HB3	ALA	386	55.671	79.962	73.069	0.00	0.00
ATOM	5806	C	ALA	386	57.248	79.460	70.778	0.00	0.00
ATOM	5807	O	ALA	386	57.114	78.254	70.857	0.00	0.00
ATOM	5808	N	ASP	387	57.358	80.013	69.594	0.00	0.00
ATOM	5809	H	ASP	387	57.390	81.020	69.654	0.00	0.00
ATOM	5810	CA	ASP	387	57.131	79.361	68.356	0.00	0.00
ATOM	5811	HA	ASP	387	56.249	78.719	68.353	0.00	0.00
ATOM	5812	CB	ASP	387	56.980	80.438	67.335	0.00	0.00
ATOM	5813	HB2	ASP	387	56.305	81.191	67.743	0.00	0.00
ATOM	5814	HB3	ASP	387	57.951	80.917	67.213	0.00	0.00
ATOM	5815	CG	ASP	387	56.507	79.907	65.990	0.00	0.00
ATOM	5816	OD1	ASP	387	57.045	80.252	64.925	0.00	0.00
ATOM	5817	OD2	ASP	387	55.469	79.212	65.952	0.00	0.00
ATOM	5818	C	ASP	387	58.274	78.387	68.153	0.00	0.00
ATOM	5819	O	ASP	387	58.146	77.330	67.527	0.00	0.00
ATOM	5820	N	SER	388	59.433	78.758	68.668	0.00	0.00
ATOM	5821	H	SER	388	59.535	79.589	69.233	0.00	0.00
ATOM	5822	CA	SER	388	60.661	77.988	68.534	0.00	0.00
ATOM	5823	HA	SER	388	60.743	77.410	67.614	0.00	0.00

ATOM	5824	CB	SER	388	61.820	78.945	68.375	0.00	0.00
ATOM	5825	HB2	SER	388	61.754	79.715	69.143	0.00	0.00
ATOM	5826	HB3	SER	388	62.832	78.586	68.561	0.00	0.00
ATOM	5827	OG	SER	388	61.943	79.557	67.127	0.00	0.00
ATOM	5828	HG	SER	388	61.296	80.266	67.119	0.00	0.00
ATOM	5829	C	SER	388	60.938	77.031	69.682	0.00	0.00
ATOM	5830	O	SER	388	62.048	76.533	69.819	0.00	0.00
ATOM	5831	N	LEU	389	60.094	76.949	70.696	0.00	0.00
ATOM	5832	H	LEU	389	59.300	77.555	70.545	0.00	0.00
ATOM	5833	CA	LEU	389	60.200	76.059	71.860	0.00	0.00
ATOM	5834	HA	LEU	389	61.262	75.911	72.055	0.00	0.00
ATOM	5835	CB	LEU	389	59.509	76.670	73.064	0.00	0.00
ATOM	5836	HB2	LEU	389	58.503	76.919	72.728	0.00	0.00
ATOM	5837	HB3	LEU	389	59.266	75.952	73.848	0.00	0.00
ATOM	5838	CG	LEU	389	60.237	77.793	73.771	0.00	0.00
ATOM	5839	HG	LEU	389	60.685	78.628	73.231	0.00	0.00
ATOM	5840	CD1	LEU	389	59.381	78.297	74.968	0.00	0.00
ATOM	5841	1HD1	LEU	389	59.974	79.121	75.365	0.00	0.00
ATOM	5842	2HD1	LEU	389	58.453	78.704	74.566	0.00	0.00
ATOM	5843	3HD1	LEU	389	59.114	77.574	75.738	0.00	0.00
ATOM	5844	CD2	LEU	389	61.514	77.245	74.494	0.00	0.00
ATOM	5845	1HD2	LEU	389	61.429	76.268	74.969	0.00	0.00
ATOM	5846	2HD2	LEU	389	62.308	77.175	73.751	0.00	0.00
ATOM	5847	3HD2	LEU	389	61.708	77.889	75.352	0.00	0.00
ATOM	5848	C	LEU	389	59.430	74.703	71.599	0.00	0.00
ATOM	5849	O	LEU	389	58.454	74.652	70.844	0.00	0.00

ATOM	5850	N	PRO	390	59.771	73.605	72.220	0.00	0.00
ATOM	5851	CD	PRO	390	60.636	73.388	73.332	0.00	0.00
ATOM	5852	HD2	PRO	390	61.423	74.131	73.460	0.00	0.00
ATOM	5853	HD3	PRO	390	60.082	73.331	74.269	0.00	0.00
ATOM	5854	CG	PRO	390	61.375	72.035	73.183	0.00	0.00
ATOM	5855	HG2	PRO	390	62.201	72.122	72.477	0.00	0.00
ATOM	5856	HG3	PRO	390	61.529	71.553	74.148	0.00	0.00
ATOM	5857	CB	PRO	390	60.210	71.230	72.526	0.00	0.00
ATOM	5858	HB2	PRO	390	60.611	70.481	71.843	0.00	0.00
ATOM	5859	HB3	PRO	390	59.481	70.846	73.239	0.00	0.00
ATOM	5860	CA	PRO	390	59.339	72.265	71.784	0.00	0.00
ATOM	5861	HA	PRO	390	59.445	72.239	70.700	0.00	0.00
ATOM	5862	C	PRO	390	57.863	71.966	72.152	0.00	0.00
ATOM	5863	O	PRO	390	57.116	71.382	71.353	0.00	0.00
ATOM	5864	N	VAL	391	57.321	72.445	73.258	0.00	0.00
ATOM	5865	H	VAL	391	57.935	72.985	73.852	0.00	0.00
ATOM	5866	CA	VAL	391	55.971	72.302	73.733	0.00	0.00
ATOM	5867	HA	VAL	391	55.678	71.256	73.645	0.00	0.00
ATOM	5868	CB	VAL	391	55.964	72.623	75.257	0.00	0.00
ATOM	5869	HB	VAL	391	54.980	72.535	75.718	0.00	0.00
ATOM	5870	CG1	VAL	391	56.957	71.766	76.102	0.00	0.00
ATOM	5871	1HG1	VAL	391	56.916	71.880	77.186	0.00	0.00
ATOM	5872	2HG1	VAL	391	56.855	70.718	75.820	0.00	0.00
ATOM	5873	3HG1	VAL	391	57.934	72.119	75.773	0.00	0.00
ATOM	5874	CG2	VAL	391	56.485	74.057	75.372	0.00	0.00
ATOM	5875	1HG2	VAL	391	56.332	74.304	76.423	0.00	0.00

ATOM 5876 2HG2 VAL 391 57.533 74.212 75.117 0.00 0.00  
ATOM 5877 3HG2 VAL 391 55.709 74.683 74.930 0.00 0.00  
ATOM 5878 C VAL 391 54.940 73.066 72.910 0.00 0.00  
ATOM 5879 O VAL 391 55.362 74.102 72.336 0.00 0.00  
ATOM 5880 N ASN 392 53.620 72.687 72.952 0.00 0.00  
ATOM 5881 H ASN 392 53.409 71.972 73.633 0.00 0.00  
ATOM 5882 CA ASN 392 52.542 73.656 72.612 0.00 0.00  
ATOM 5883 HA ASN 392 52.707 74.016 71.596 0.00 0.00  
ATOM 5884 CB ASN 392 51.176 72.916 72.483 0.00 0.00  
ATOM 5885 HB2 ASN 392 50.735 72.816 73.475 0.00 0.00  
ATOM 5886 HB3 ASN 392 50.598 73.519 71.782 0.00 0.00  
ATOM 5887 CG ASN 392 51.342 71.516 71.879 0.00 0.00  
ATOM 5888 OD1 ASN 392 51.966 71.303 70.877 0.00 0.00  
ATOM 5889 ND2 ASN 392 50.867 70.581 72.610 0.00 0.00  
ATOM 5890 1HD2 ASN 392 51.104 69.639 72.333 0.00 0.00  
ATOM 5891 2HD2 ASN 392 50.454 70.713 73.522 0.00 0.00  
ATOM 5892 C ASN 392 52.453 74.828 73.582 0.00 0.00  
ATOM 5893 O ASN 392 52.572 74.463 74.769 0.00 0.00  
ATOM 5894 N ILE 393 52.043 76.017 73.194 0.00 0.00  
ATOM 5895 H ILE 393 51.771 76.210 72.241 0.00 0.00  
ATOM 5896 CA ILE 393 51.958 77.215 74.039 0.00 0.00  
ATOM 5897 HA ILE 393 51.766 76.848 75.047 0.00 0.00  
ATOM 5898 CB ILE 393 53.325 77.962 74.155 0.00 0.00  
ATOM 5899 HB ILE 393 53.625 78.238 73.144 0.00 0.00  
ATOM 5900 CG2 ILE 393 53.224 79.171 75.228 0.00 0.00  
ATOM 5901 1HG2 ILE 393 53.047 78.825 76.247 0.00 0.00

ATOM	5902	2HG2	ILE	393	54.184	79.687	75.247	0.00	0.00
ATOM	5903	3HG2	ILE	393	52.469	79.928	75.014	0.00	0.00
ATOM	5904	CG1	ILE	393	54.478	77.014	74.646	0.00	0.00
ATOM	5905	2HG1	ILE	393	54.260	76.676	75.659	0.00	0.00
ATOM	5906	3HG1	ILE	393	54.532	76.156	73.976	0.00	0.00
ATOM	5907	CD1	ILE	393	55.895	77.520	74.659	0.00	0.00
ATOM	5908	1HD1	ILE	393	56.586	76.815	75.121	0.00	0.00
ATOM	5909	2HD1	ILE	393	56.247	77.783	73.662	0.00	0.00
ATOM	5910	3HD1	ILE	393	55.943	78.441	75.240	0.00	0.00
ATOM	5911	C	ILE	393	50.788	78.217	73.814	0.00	0.00
ATOM	5912	O	ILE	393	50.380	78.446	72.680	0.00	0.00
ATOM	5913	N	GLY	394	50.283	78.747	74.931	0.00	0.00
ATOM	5914	H	GLY	394	50.724	78.532	75.814	0.00	0.00
ATOM	5915	CA	GLY	394	49.367	79.814	75.062	0.00	0.00
ATOM	5916	HA2	GLY	394	48.353	79.414	75.061	0.00	0.00
ATOM	5917	HA3	GLY	394	49.386	80.540	74.249	0.00	0.00
ATOM	5918	C	GLY	394	49.636	80.669	76.334	0.00	0.00
ATOM	5919	O	GLY	394	50.150	80.180	77.316	0.00	0.00
ATOM	5920	N	LEU	395	49.354	81.965	76.351	0.00	0.00
ATOM	5921	H	LEU	395	48.856	82.396	75.585	0.00	0.00
ATOM	5922	CA	LEU	395	49.767	82.930	77.379	0.00	0.00
ATOM	5923	HA	LEU	395	50.400	82.451	78.125	0.00	0.00
ATOM	5924	CB	LEU	395	50.705	83.981	76.717	0.00	0.00
ATOM	5925	HB2	LEU	395	50.095	84.514	75.989	0.00	0.00
ATOM	5926	HB3	LEU	395	51.057	84.708	77.449	0.00	0.00
ATOM	5927	CG	LEU	395	51.974	83.478	75.986	0.00	0.00

ATOM	5928	HG	LEU	395	51.727	82.864	75.120	0.00	0.00
ATOM	5929	CD1	LEU	395	52.781	84.670	75.309	0.00	0.00
ATOM	5930	1HD1	LEU	395	53.337	85.337	75.967	0.00	0.00
ATOM	5931	2HD1	LEU	395	53.483	84.208	74.615	0.00	0.00
ATOM	5932	3HD1	LEU	395	52.090	85.379	74.852	0.00	0.00
ATOM	5933	CD2	LEU	395	52.895	82.633	76.887	0.00	0.00
ATOM	5934	1HD2	LEU	395	52.608	82.903	77.903	0.00	0.00
ATOM	5935	2HD2	LEU	395	52.625	81.618	76.594	0.00	0.00
ATOM	5936	3HD2	LEU	395	53.960	82.703	76.665	0.00	0.00
ATOM	5937	C	LEU	395	48.687	83.435	78.247	0.00	0.00
ATOM	5938	O	LEU	395	47.537	83.725	77.855	0.00	0.00
ATOM	5939	N	LEU	396	49.067	83.743	79.501	0.00	0.00
ATOM	5940	H	LEU	396	49.973	83.397	79.784	0.00	0.00
ATOM	5941	CA	LEU	396	48.342	84.575	80.493	0.00	0.00
ATOM	5942	HA	LEU	396	47.285	84.595	80.231	0.00	0.00
ATOM	5943	CB	LEU	396	48.349	83.958	81.932	0.00	0.00
ATOM	5944	HB2	LEU	396	49.398	83.871	82.218	0.00	0.00
ATOM	5945	HB3	LEU	396	47.851	84.616	82.644	0.00	0.00
ATOM	5946	CG	LEU	396	47.925	82.507	81.928	0.00	0.00
ATOM	5947	HG	LEU	396	48.655	81.906	81.385	0.00	0.00
ATOM	5948	CD1	LEU	396	47.817	81.909	83.326	0.00	0.00
ATOM	5949	1HD1	LEU	396	47.497	80.867	83.305	0.00	0.00
ATOM	5950	2HD1	LEU	396	48.790	81.875	83.817	0.00	0.00
ATOM	5951	3HD1	LEU	396	47.124	82.478	83.945	0.00	0.00
ATOM	5952	CD2	LEU	396	46.564	82.225	81.226	0.00	0.00
ATOM	5953	1HD2	LEU	396	46.740	82.217	80.151	0.00	0.00



ATOM	5954	2HD2	LEU	396	46.151	81.230	81.394	0.00	0.00
ATOM	5955	3HD2	LEU	396	45.853	82.938	81.643	0.00	0.00
ATOM	5956	C	LEU	396	48.877	86.043	80.737	0.00	0.00
ATOM	5957	O	LEU	396	50.001	86.280	81.150	0.00	0.00
ATOM	5958	N	GLY	397	47.952	87.064	80.505	0.00	0.00
ATOM	5959	H	GLY	397	47.119	86.935	79.949	0.00	0.00
ATOM	5960	CA	GLY	397	48.385	88.472	80.620	0.00	0.00
ATOM	5961	HA2	GLY	397	49.400	88.518	80.226	0.00	0.00
ATOM	5962	HA3	GLY	397	47.723	89.104	80.027	0.00	0.00
ATOM	5963	C	GLY	397	48.392	88.960	82.095	0.00	0.00
ATOM	5964	O	GLY	397	47.879	88.341	83.005	0.00	0.00
ATOM	5965	N	LYS	398	48.913	90.203	82.249	0.00	0.00
ATOM	5966	H	LYS	398	49.424	90.710	81.541	0.00	0.00
ATOM	5967	CA	LYS	398	48.699	90.970	83.523	0.00	0.00
ATOM	5968	HA	LYS	398	48.937	90.201	84.258	0.00	0.00
ATOM	5969	CB	LYS	398	49.657	92.115	83.566	0.00	0.00
ATOM	5970	HB2	LYS	398	50.718	91.895	83.445	0.00	0.00
ATOM	5971	HB3	LYS	398	49.505	92.792	82.726	0.00	0.00
ATOM	5972	CG	LYS	398	49.490	92.798	84.931	0.00	0.00
ATOM	5973	HG2	LYS	398	48.440	93.082	85.001	0.00	0.00
ATOM	5974	HG3	LYS	398	49.672	92.037	85.690	0.00	0.00
ATOM	5975	CD	LYS	398	50.376	93.994	85.218	0.00	0.00
ATOM	5976	HD2	LYS	398	50.075	94.809	84.559	0.00	0.00
ATOM	5977	HD3	LYS	398	50.166	94.409	86.204	0.00	0.00
ATOM	5978	CE	LYS	398	51.876	93.741	85.152	0.00	0.00
ATOM	5979	HE2	LYS	398	52.032	93.069	85.996	0.00	0.00

ATOM	5980	HE3	LYS	398	52.146	93.229	84.229	0.00	0.00
ATOM	5981	NZ	LYS	398	52.605	94.947	85.390	0.00	0.00
ATOM	5982	HZ1	LYS	398	52.600	95.520	84.558	0.00	0.00
ATOM	5983	HZ2	LYS	398	52.182	95.444	86.161	0.00	0.00
ATOM	5984	HZ3	LYS	398	53.516	94.723	85.764	0.00	0.00
ATOM	5985	C	LYS	398	47.232	91.336	83.617	0.00	0.00
ATOM	5986	O	LYS	398	46.689	92.253	83.039	0.00	0.00
ATOM	5987	N	GLY	399	46.561	90.687	84.587	0.00	0.00
ATOM	5988	H	GLY	399	46.956	89.766	84.708	0.00	0.00
ATOM	5989	CA	GLY	399	45.255	91.033	85.153	0.00	0.00
ATOM	5990	HA2	GLY	399	44.480	91.258	84.420	0.00	0.00
ATOM	5991	HA3	GLY	399	44.893	90.151	85.681	0.00	0.00
ATOM	5992	C	GLY	399	45.273	92.138	86.254	0.00	0.00
ATOM	5993	O	GLY	399	44.269	92.813	86.395	0.00	0.00
ATOM	5994	N	ASN	400	46.394	92.448	86.953	0.00	0.00
ATOM	5995	H	ASN	400	47.253	91.951	86.765	0.00	0.00
ATOM	5996	CA	ASN	400	46.521	93.596	87.842	0.00	0.00
ATOM	5997	HA	ASN	400	45.722	93.608	88.583	0.00	0.00
ATOM	5998	CB	ASN	400	47.839	93.523	88.634	0.00	0.00
ATOM	5999	HB2	ASN	400	48.732	93.777	88.063	0.00	0.00
ATOM	6000	HB3	ASN	400	47.875	94.347	89.348	0.00	0.00
ATOM	6001	CG	ASN	400	48.064	92.247	89.352	0.00	0.00
ATOM	6002	OD1	ASN	400	48.396	91.241	88.709	0.00	0.00
ATOM	6003	ND2	ASN	400	47.861	92.293	90.638	0.00	0.00
ATOM	6004	1HD2	ASN	400	48.099	91.549	91.278	0.00	0.00
ATOM	6005	2HD2	ASN	400	47.462	93.168	90.948	0.00	0.00

ATOM	6006	C	ASN	400	46.453	94.976	87.163	0.00	0.00
ATOM	6007	O	ASN	400	47.401	95.689	87.087	0.00	0.00
ATOM	6008	N	VAL	401	45.332	95.334	86.616	0.00	0.00
ATOM	6009	H	VAL	401	44.567	94.699	86.438	0.00	0.00
ATOM	6010	CA	VAL	401	44.856	96.678	86.283	0.00	0.00
ATOM	6011	HA	VAL	401	45.412	97.326	86.961	0.00	0.00
ATOM	6012	CB	VAL	401	45.423	97.023	84.909	0.00	0.00
ATOM	6013	HB	VAL	401	46.502	96.878	84.847	0.00	0.00
ATOM	6014	CG1	VAL	401	44.934	96.158	83.773	0.00	0.00
ATOM	6015	1HG1	VAL	401	43.907	96.486	83.612	0.00	0.00
ATOM	6016	2HG1	VAL	401	45.516	96.429	82.892	0.00	0.00
ATOM	6017	3HG1	VAL	401	45.040	95.159	84.196	0.00	0.00
ATOM	6018	CG2	VAL	401	45.163	98.496	84.595	0.00	0.00
ATOM	6019	1HG2	VAL	401	45.869	98.776	83.813	0.00	0.00
ATOM	6020	2HG2	VAL	401	44.120	98.604	84.296	0.00	0.00
ATOM	6021	3HG2	VAL	401	45.315	99.045	85.524	0.00	0.00
ATOM	6022	C	VAL	401	43.327	96.873	86.455	0.00	0.00
ATOM	6023	O	VAL	401	42.492	96.061	86.079	0.00	0.00
ATOM	6024	N	SER	402	43.013	98.099	86.759	0.00	0.00
ATOM	6025	H	SER	402	43.732	98.514	87.335	0.00	0.00
ATOM	6026	CA	SER	402	41.590	98.560	86.981	0.00	0.00
ATOM	6027	HA	SER	402	40.943	97.683	86.984	0.00	0.00
ATOM	6028	CB	SER	402	41.369	99.179	88.393	0.00	0.00
ATOM	6029	HB2	SER	402	41.818	100.169	88.310	0.00	0.00
ATOM	6030	HB3	SER	402	40.282	99.258	88.412	0.00	0.00
ATOM	6031	OG	SER	402	41.824	98.366	89.467	0.00	0.00

ATOM	6032	HG	SER	402	42.778	98.346	89.370	0.00	0.00
ATOM	6033	C	SER	402	41.083	99.448	85.832	0.00	0.00
ATOM	6034	O	SER	402	40.332	100.397	85.939	0.00	0.00
ATOM	6035	N	GLN	403	41.576	99.209	84.646	0.00	0.00
ATOM	6036	H	GLN	403	42.262	98.471	84.586	0.00	0.00
ATOM	6037	CA	GLN	403	41.278	99.904	83.347	0.00	0.00
ATOM	6038	HA	GLN	403	40.308	100.400	83.377	0.00	0.00
ATOM	6039	CB	GLN	403	42.501	100.862	83.144	0.00	0.00
ATOM	6040	HB2	GLN	403	42.798	101.279	84.106	0.00	0.00
ATOM	6041	HB3	GLN	403	43.383	100.288	82.859	0.00	0.00
ATOM	6042	CG	GLN	403	42.345	101.800	81.888	0.00	0.00
ATOM	6043	HG2	GLN	403	42.840	102.731	82.164	0.00	0.00
ATOM	6044	HG3	GLN	403	42.970	101.541	81.034	0.00	0.00
ATOM	6045	CD	GLN	403	40.853	102.057	81.547	0.00	0.00
ATOM	6046	OE1	GLN	403	40.325	101.659	80.555	0.00	0.00
ATOM	6047	NE2	GLN	403	40.194	102.806	82.390	0.00	0.00
ATOM	6048	1HE2	GLN	403	39.267	103.173	82.222	0.00	0.00
ATOM	6049	2HE2	GLN	403	40.706	103.044	83.227	0.00	0.00
ATOM	6050	C	GLN	403	41.121	98.888	82.195	0.00	0.00
ATOM	6051	O	GLN	403	42.132	98.284	81.769	0.00	0.00
ATOM	6052	N	PRO	404	39.837	98.654	81.759	0.00	0.00
ATOM	6053	CD	PRO	404	38.537	99.183	82.310	0.00	0.00
ATOM	6054	HD2	PRO	404	38.202	98.718	83.237	0.00	0.00
ATOM	6055	HD3	PRO	404	38.607	100.251	82.515	0.00	0.00
ATOM	6056	CG	PRO	404	37.451	98.925	81.338	0.00	0.00
ATOM	6057	HG2	PRO	404	36.448	98.830	81.754	0.00	0.00

ATOM	6058	HG3 PRO	404	37.582	99.705	80.587	0.00	0.00
ATOM	6059	CB PRO	404	37.985	97.593	80.853	0.00	0.00
ATOM	6060	HB2 PRO	404	37.692	96.722	81.439	0.00	0.00
ATOM	6061	HB3 PRO	404	37.601	97.412	79.850	0.00	0.00
ATOM	6062	CA PRO	404	39.522	97.568	80.899	0.00	0.00
ATOM	6063	HA PRO	404	39.943	96.713	81.428	0.00	0.00
ATOM	6064	C PRO	404	40.245	97.596	79.553	0.00	0.00
ATOM	6065	O PRO	404	40.644	96.568	78.965	0.00	0.00
ATOM	6066	N ASP	405	40.567	98.805	79.022	0.00	0.00
ATOM	6067	H ASP	405	40.324	99.638	79.538	0.00	0.00
ATOM	6068	CA ASP	405	41.307	98.968	77.752	0.00	0.00
ATOM	6069	HA ASP	405	40.805	98.319	77.035	0.00	0.00
ATOM	6070	CB ASP	405	41.055	100.427	77.275	0.00	0.00
ATOM	6071	HB2 ASP	405	40.972	101.141	78.094	0.00	0.00
ATOM	6072	HB3 ASP	405	41.889	100.613	76.599	0.00	0.00
ATOM	6073	CG ASP	405	39.874	100.458	76.382	0.00	0.00
ATOM	6074	OD1 ASP	405	38.948	101.225	76.652	0.00	0.00
ATOM	6075	OD2 ASP	405	39.746	99.603	75.472	0.00	0.00
ATOM	6076	C ASP	405	42.766	98.519	77.771	0.00	0.00
ATOM	6077	O ASP	405	43.273	98.157	76.756	0.00	0.00
ATOM	6078	N ALA	406	43.407	98.482	78.950	0.00	0.00
ATOM	6079	H ALA	406	42.908	98.708	79.799	0.00	0.00
ATOM	6080	CA ALA	406	44.754	98.055	79.150	0.00	0.00
ATOM	6081	HA ALA	406	45.394	98.247	78.289	0.00	0.00
ATOM	6082	CB ALA	406	45.320	98.761	80.377	0.00	0.00
ATOM	6083	HB1 ALA	406	44.992	99.801	80.378	0.00	0.00

ATOM	6084	HB2	ALA	406	44.837	98.331	81.255	0.00	0.00
ATOM	6085	HB3	ALA	406	46.391	98.577	80.457	0.00	0.00
ATOM	6086	C	ALA	406	44.844	96.522	79.295	0.00	0.00
ATOM	6087	O	ALA	406	45.917	95.974	78.994	0.00	0.00
ATOM	6088	N	LEU	407	43.738	95.839	79.594	0.00	0.00
ATOM	6089	H	LEU	407	42.953	96.475	79.587	0.00	0.00
ATOM	6090	CA	LEU	407	43.529	94.376	79.476	0.00	0.00
ATOM	6091	HA	LEU	407	44.461	93.856	79.701	0.00	0.00
ATOM	6092	CB	LEU	407	42.375	94.012	80.433	0.00	0.00
ATOM	6093	HB2	LEU	407	41.569	94.678	80.122	0.00	0.00
ATOM	6094	HB3	LEU	407	42.155	92.956	80.273	0.00	0.00
ATOM	6095	CG	LEU	407	42.786	94.209	81.914	0.00	0.00
ATOM	6096	HG	LEU	407	42.958	95.281	82.011	0.00	0.00
ATOM	6097	CD1	LEU	407	41.651	93.772	82.866	0.00	0.00
ATOM	6098	1HD1	LEU	407	40.734	94.334	82.693	0.00	0.00
ATOM	6099	2HD1	LEU	407	41.450	92.709	82.729	0.00	0.00
ATOM	6100	3HD1	LEU	407	41.836	93.916	83.931	0.00	0.00
ATOM	6101	CD2	LEU	407	43.955	93.308	82.278	0.00	0.00
ATOM	6102	1HD2	LEU	407	44.908	93.638	81.864	0.00	0.00
ATOM	6103	2HD2	LEU	407	44.070	93.210	83.357	0.00	0.00
ATOM	6104	3HD2	LEU	407	43.651	92.342	81.874	0.00	0.00
ATOM	6105	C	LEU	407	43.213	93.966	77.965	0.00	0.00
ATOM	6106	O	LEU	407	43.814	92.981	77.467	0.00	0.00
ATOM	6107	N	ARG	408	42.327	94.643	77.204	0.00	0.00
ATOM	6108	H	ARG	408	41.670	95.280	77.632	0.00	0.00
ATOM	6109	CA	ARG	408	42.017	94.403	75.808	0.00	0.00

ATOM	6110	HA	ARG	408	41.719	93.364	75.668	0.00	0.00
ATOM	6111	CB	ARG	408	40.939	95.339	75.387	0.00	0.00
ATOM	6112	HB2	ARG	408	41.209	96.393	75.461	0.00	0.00
ATOM	6113	HB3	ARG	408	40.684	95.260	74.330	0.00	0.00
ATOM	6114	CG	ARG	408	39.576	95.100	76.116	0.00	0.00
ATOM	6115	HG2	ARG	408	39.122	94.114	76.023	0.00	0.00
ATOM	6116	HG3	ARG	408	39.790	95.277	77.170	0.00	0.00
ATOM	6117	CD	ARG	408	38.633	96.249	75.636	0.00	0.00
ATOM	6118	HD2	ARG	408	39.133	97.208	75.771	0.00	0.00
ATOM	6119	HD3	ARG	408	38.388	96.273	74.574	0.00	0.00
ATOM	6120	NE	ARG	408	37.384	96.289	76.441	0.00	0.00
ATOM	6121	HE	ARG	408	36.709	95.545	76.338	0.00	0.00
ATOM	6122	CZ	ARG	408	36.852	97.245	77.117	0.00	0.00
ATOM	6123	NH1	ARG	408	37.514	98.296	77.377	0.00	0.00
ATOM	6124	1HH1	ARG	408	36.927	99.089	77.588	0.00	0.00
ATOM	6125	2HH1	ARG	408	38.419	98.420	76.945	0.00	0.00
ATOM	6126	NH2	ARG	408	35.652	97.154	77.600	0.00	0.00
ATOM	6127	1HH2	ARG	408	35.124	97.779	78.192	0.00	0.00
ATOM	6128	2HH2	ARG	408	35.166	96.329	77.280	0.00	0.00
ATOM	6129	C	ARG	408	43.248	94.672	74.976	0.00	0.00
ATOM	6130	O	ARG	408	43.399	94.079	73.875	0.00	0.00
ATOM	6131	N	GLU	409	44.199	95.493	75.448	0.00	0.00
ATOM	6132	H	GLU	409	44.022	95.961	76.325	0.00	0.00
ATOM	6133	CA	GLU	409	45.412	95.767	74.694	0.00	0.00
ATOM	6134	HA	GLU	409	45.240	95.856	73.621	0.00	0.00
ATOM	6135	CB	GLU	409	46.050	96.965	75.318	0.00	0.00

ATOM	6136	HB2	GLU	409	45.327	97.614	75.811	0.00	0.00
ATOM	6137	HB3	GLU	409	46.814	96.535	75.966	0.00	0.00
ATOM	6138	CG	GLU	409	46.801	97.616	74.117	0.00	0.00
ATOM	6139	HG2	GLU	409	47.641	98.170	74.536	0.00	0.00
ATOM	6140	HG3	GLU	409	47.326	97.019	73.371	0.00	0.00
ATOM	6141	CD	GLU	409	45.845	98.610	73.473	0.00	0.00
ATOM	6142	OE1	GLU	409	45.630	99.679	74.126	0.00	0.00
ATOM	6143	OE2	GLU	409	45.376	98.347	72.366	0.00	0.00
ATOM	6144	C	GLU	409	46.360	94.521	74.891	0.00	0.00
ATOM	6145	O	GLU	409	46.996	94.122	73.923	0.00	0.00
ATOM	6146	N	GLN	410	46.385	93.758	76.016	0.00	0.00
ATOM	6147	H	GLN	410	45.712	94.003	76.728	0.00	0.00
ATOM	6148	CA	GLN	410	47.073	92.435	76.111	0.00	0.00
ATOM	6149	HA	GLN	410	48.090	92.514	75.727	0.00	0.00
ATOM	6150	CB	GLN	410	47.187	92.153	77.597	0.00	0.00
ATOM	6151	HB2	GLN	410	46.225	92.317	78.083	0.00	0.00
ATOM	6152	HB3	GLN	410	47.623	91.192	77.869	0.00	0.00
ATOM	6153	CG	GLN	410	48.221	93.158	78.169	0.00	0.00
ATOM	6154	HG2	GLN	410	49.224	93.006	77.771	0.00	0.00
ATOM	6155	HG3	GLN	410	47.956	94.172	77.870	0.00	0.00
ATOM	6156	CD	GLN	410	48.382	92.999	79.674	0.00	0.00
ATOM	6157	OE1	GLN	410	49.309	92.431	80.174	0.00	0.00
ATOM	6158	NE2	GLN	410	47.495	93.586	80.448	0.00	0.00
ATOM	6159	1HE2	GLN	410	47.285	93.338	81.404	0.00	0.00
ATOM	6160	2HE2	GLN	410	46.866	94.242	80.007	0.00	0.00
ATOM	6161	C	GLN	410	46.243	91.358	75.396	0.00	0.00



ATOM	6162	O	GLN	410	46.878	90.669	74.561	0.00	0.00
ATOM	6163	N	VAL	411	44.912	91.244	75.498	0.00	0.00
ATOM	6164	H	VAL	411	44.458	91.935	76.077	0.00	0.00
ATOM	6165	CA	VAL	411	44.182	90.120	74.878	0.00	0.00
ATOM	6166	HA	VAL	411	44.588	89.185	75.264	0.00	0.00
ATOM	6167	CB	VAL	411	42.648	90.159	75.276	0.00	0.00
ATOM	6168	HB	VAL	411	42.316	91.175	75.063	0.00	0.00
ATOM	6169	CG1	VAL	411	41.869	89.060	74.605	0.00	0.00
ATOM	6170	1HG1	VAL	411	41.710	89.274	73.548	0.00	0.00
ATOM	6171	2HG1	VAL	411	42.457	88.147	74.700	0.00	0.00
ATOM	6172	3HG1	VAL	411	40.901	88.999	75.102	0.00	0.00
ATOM	6173	CG2	VAL	411	42.404	89.887	76.748	0.00	0.00
ATOM	6174	1HG2	VAL	411	42.680	88.846	76.919	0.00	0.00
ATOM	6175	2HG2	VAL	411	42.946	90.587	77.384	0.00	0.00
ATOM	6176	3HG2	VAL	411	41.362	90.007	77.046	0.00	0.00
ATOM	6177	C	VAL	411	44.307	90.157	73.387	0.00	0.00
ATOM	6178	O	VAL	411	44.693	89.071	72.876	0.00	0.00
ATOM	6179	N	ALA	412	44.153	91.278	72.650	0.00	0.00
ATOM	6180	H	ALA	412	43.868	92.076	73.200	0.00	0.00
ATOM	6181	CA	ALA	412	44.386	91.208	71.222	0.00	0.00
ATOM	6182	HA	ALA	412	43.972	90.264	70.869	0.00	0.00
ATOM	6183	CB	ALA	412	43.591	92.343	70.572	0.00	0.00
ATOM	6184	HB1	ALA	412	43.603	92.250	69.486	0.00	0.00
ATOM	6185	HB2	ALA	412	42.546	92.380	70.879	0.00	0.00
ATOM	6186	HB3	ALA	412	43.928	93.347	70.833	0.00	0.00
ATOM	6187	C	ALA	412	45.894	91.362	70.766	0.00	0.00

ATOM	6188	O	ALA	412	46.137	91.482	69.550	0.00	0.00
ATOM	6189	N	ALA	413	46.867	91.285	71.650	0.00	0.00
ATOM	6190	H	ALA	413	46.645	91.180	72.630	0.00	0.00
ATOM	6191	CA	ALA	413	48.249	90.963	71.318	0.00	0.00
ATOM	6192	HA	ALA	413	48.327	91.268	70.274	0.00	0.00
ATOM	6193	CB	ALA	413	49.188	91.846	72.241	0.00	0.00
ATOM	6194	HB1	ALA	413	49.637	92.631	71.633	0.00	0.00
ATOM	6195	HB2	ALA	413	48.685	92.147	73.160	0.00	0.00
ATOM	6196	HB3	ALA	413	50.115	91.323	72.474	0.00	0.00
ATOM	6197	C	ALA	413	48.529	89.372	71.256	0.00	0.00
ATOM	6198	O	ALA	413	49.451	88.946	70.549	0.00	0.00
ATOM	6199	N	GLY	414	47.661	88.608	71.891	0.00	0.00
ATOM	6200	H	GLY	414	47.001	89.024	72.533	0.00	0.00
ATOM	6201	CA	GLY	414	47.785	87.135	71.799	0.00	0.00
ATOM	6202	HA2	GLY	414	47.243	86.821	70.907	0.00	0.00
ATOM	6203	HA3	GLY	414	48.799	86.741	71.723	0.00	0.00
ATOM	6204	C	GLY	414	47.181	86.330	72.998	0.00	0.00
ATOM	6205	O	GLY	414	46.905	85.183	72.851	0.00	0.00
ATOM	6206	N	VAL	415	47.008	86.940	74.159	0.00	0.00
ATOM	6207	H	VAL	415	47.286	87.905	74.266	0.00	0.00
ATOM	6208	CA	VAL	415	46.833	86.195	75.500	0.00	0.00
ATOM	6209	HA	VAL	415	47.550	85.375	75.503	0.00	0.00
ATOM	6210	CB	VAL	415	47.219	86.958	76.719	0.00	0.00
ATOM	6211	HB	VAL	415	46.995	86.315	77.571	0.00	0.00
ATOM	6212	CG1	VAL	415	48.732	87.288	76.847	0.00	0.00
ATOM	6213	1HG1	VAL	415	48.984	87.837	75.940	0.00	0.00

ATOM	6214	2HG1	VAL	415	48.978	88.000	77.634	0.00	0.00
ATOM	6215	3HG1	VAL	415	49.344	86.386	76.873	0.00	0.00
ATOM	6216	CG2	VAL	415	46.457	88.247	77.047	0.00	0.00
ATOM	6217	1HG2	VAL	415	46.535	88.902	76.179	0.00	0.00
ATOM	6218	2HG2	VAL	415	45.390	88.039	77.127	0.00	0.00
ATOM	6219	3HG2	VAL	415	46.753	88.662	78.011	0.00	0.00
ATOM	6220	C	VAL	415	45.490	85.543	75.649	0.00	0.00
ATOM	6221	O	VAL	415	44.490	86.274	75.374	0.00	0.00
ATOM	6222	N	ILE	416	45.440	84.278	76.008	0.00	0.00
ATOM	6223	H	ILE	416	46.334	83.877	76.253	0.00	0.00
ATOM	6224	CA	ILE	416	44.151	83.466	76.121	0.00	0.00
ATOM	6225	HA	ILE	416	43.515	83.774	75.291	0.00	0.00
ATOM	6226	CB	ILE	416	44.489	81.982	75.794	0.00	0.00
ATOM	6227	HB	ILE	416	43.683	81.339	76.146	0.00	0.00
ATOM	6228	CG2	ILE	416	44.687	81.898	74.324	0.00	0.00
ATOM	6229	1HG2	ILE	416	45.213	80.978	74.069	0.00	0.00
ATOM	6230	2HG2	ILE	416	43.769	81.960	73.741	0.00	0.00
ATOM	6231	3HG2	ILE	416	45.375	82.701	74.057	0.00	0.00
ATOM	6232	CG1	ILE	416	45.660	81.396	76.650	0.00	0.00
ATOM	6233	2HG1	ILE	416	46.525	82.004	76.385	0.00	0.00
ATOM	6234	3HG1	ILE	416	45.512	81.551	77.719	0.00	0.00
ATOM	6235	CD1	ILE	416	45.953	79.927	76.527	0.00	0.00
ATOM	6236	1HD1	ILE	416	45.153	79.328	76.963	0.00	0.00
ATOM	6237	2HD1	ILE	416	46.168	79.643	75.497	0.00	0.00
ATOM	6238	3HD1	ILE	416	46.860	79.842	77.127	0.00	0.00
ATOM	6239	C	ILE	416	43.547	83.603	77.489	0.00	0.00

ATOM 6240 O ILE 416 42.620 82.846 77.884 0.00 0.00  
ATOM 6241 N GLY 417 44.086 84.508 78.320 0.00 0.00  
ATOM 6242 H GLY 417 44.909 85.034 78.064 0.00 0.00  
ATOM 6243 CA GLY 417 43.613 84.560 79.650 0.00 0.00  
ATOM 6244 HA2 GLY 417 42.553 84.810 79.633 0.00 0.00  
ATOM 6245 HA3 GLY 417 43.741 83.570 80.088 0.00 0.00  
ATOM 6246 C GLY 417 44.394 85.566 80.542 0.00 0.00  
ATOM 6247 O GLY 417 45.271 86.262 79.997 0.00 0.00  
ATOM 6248 N LEU 418 44.170 85.588 81.841 0.00 0.00  
ATOM 6249 H LEU 418 43.443 85.043 82.281 0.00 0.00  
ATOM 6250 CA LEU 418 44.740 86.609 82.751 0.00 0.00  
ATOM 6251 HA LEU 418 45.662 87.029 82.347 0.00 0.00  
ATOM 6252 CB LEU 418 43.799 87.714 82.932 0.00 0.00  
ATOM 6253 HB2 LEU 418 42.893 87.283 83.358 0.00 0.00  
ATOM 6254 HB3 LEU 418 44.128 88.401 83.711 0.00 0.00  
ATOM 6255 CG LEU 418 43.534 88.607 81.726 0.00 0.00  
ATOM 6256 HG LEU 418 43.248 87.910 80.938 0.00 0.00  
ATOM 6257 CD1 LEU 418 42.371 89.583 81.929 0.00 0.00  
ATOM 6258 1HD1 LEU 418 42.691 90.201 82.768 0.00 0.00  
ATOM 6259 2HD1 LEU 418 42.145 90.107 81.001 0.00 0.00  
ATOM 6260 3HD1 LEU 418 41.492 88.969 82.124 0.00 0.00  
ATOM 6261 CD2 LEU 418 44.719 89.357 81.117 0.00 0.00  
ATOM 6262 1HD2 LEU 418 45.113 89.966 81.931 0.00 0.00  
ATOM 6263 2HD2 LEU 418 45.267 88.610 80.544 0.00 0.00  
ATOM 6264 3HD2 LEU 418 44.405 90.078 80.363 0.00 0.00  
ATOM 6265 C LEU 418 45.183 85.815 84.081 0.00 0.00

ATOM	6266	O	LEU	418	44.584	84.867	84.584	0.00	0.00
ATOM	6267	N	KCB	419	46.124	86.432	84.724	0.00	0.00
ATOM	6268	H	KCB	419	46.744	87.031	84.196	0.00	0.00
ATOM	6269	CA	KCB	419	46.446	86.142	86.190	0.00	0.00
ATOM	6270	HA	KCB	419	45.666	85.458	86.525	0.00	0.00
ATOM	6271	CB	KCB	419	47.801	85.368	86.388	0.00	0.00
ATOM	6272	HB2	KCB	419	47.679	84.435	85.839	0.00	0.00
ATOM	6273	HB3	KCB	419	48.666	85.923	86.025	0.00	0.00
ATOM	6274	CG	KCB	419	47.956	85.016	87.870	0.00	0.00
ATOM	6275	HG2	KCB	419	48.036	85.963	88.402	0.00	0.00
ATOM	6276	HG3	KCB	419	47.115	84.376	88.138	0.00	0.00
ATOM	6277	CD	KCB	419	49.299	84.306	88.112	0.00	0.00
ATOM	6278	HD2	KCB	419	49.426	83.477	87.415	0.00	0.00
ATOM	6279	HD3	KCB	419	49.924	85.149	87.817	0.00	0.00
ATOM	6280	CE	KCB	419	49.500	83.936	89.616	0.00	0.00
ATOM	6281	HE2	KCB	419	49.306	84.736	90.330	0.00	0.00
ATOM	6282	HE3	KCB	419	48.752	83.211	89.939	0.00	0.00
ATOM	6283	NZ	KCB	419	50.833	83.488	89.751	0.00	0.00
ATOM	6284	HZ1	KCB	419	51.316	83.346	88.876	0.00	0.00
ATOM	6285	CX	KCB	419	51.355	83.125	90.914	0.00	0.00
ATOM	6286	OX1	KCB	419	50.609	82.936	91.865	0.00	0.00
ATOM	6287	OX2	KCB	419	52.586	82.974	90.820	0.00	0.00
ATOM	6288	C	KCB	419	46.429	87.467	86.966	0.00	0.00
ATOM	6289	O	KCB	419	46.666	88.548	86.444	0.00	0.00
ATOM	6290	N	ILE	420	45.840	87.389	88.119	0.00	0.00
ATOM	6291	H	ILE	420	45.447	86.503	88.403	0.00	0.00

ATOM	6292	CA	ILE	420	45.974	88.446	89.180	0.00	0.00
ATOM	6293	HA	ILE	420	46.504	89.312	88.785	0.00	0.00
ATOM	6294	CB	ILE	420	44.555	88.826	89.641	0.00	0.00
ATOM	6295	HB	ILE	420	44.000	87.899	89.791	0.00	0.00
ATOM	6296	CG2	ILE	420	44.703	89.519	91.027	0.00	0.00
ATOM	6297	1HG2	ILE	420	43.743	89.573	91.540	0.00	0.00
ATOM	6298	2HG2	ILE	420	45.300	88.986	91.766	0.00	0.00
ATOM	6299	3HG2	ILE	420	45.195	90.488	90.945	0.00	0.00
ATOM	6300	CG1	ILE	420	43.817	89.829	88.685	0.00	0.00
ATOM	6301	2HG1	ILE	420	44.447	90.700	88.505	0.00	0.00
ATOM	6302	3HG1	ILE	420	43.723	89.320	87.726	0.00	0.00
ATOM	6303	CD1	ILE	420	42.398	90.282	89.137	0.00	0.00
ATOM	6304	1HD1	ILE	420	42.507	90.866	90.051	0.00	0.00
ATOM	6305	2HD1	ILE	420	41.987	91.025	88.453	0.00	0.00
ATOM	6306	3HD1	ILE	420	41.792	89.382	89.233	0.00	0.00
ATOM	6307	C	ILE	420	46.880	87.853	90.211	0.00	0.00
ATOM	6308	O	ILE	420	46.626	86.665	90.655	0.00	0.00
ATOM	6309	N	HIE	421	47.885	88.574	90.638	0.00	0.00
ATOM	6310	H	HIE	421	47.959	89.523	90.302	0.00	0.00
ATOM	6311	CA	HIE	421	48.849	88.305	91.804	0.00	0.00
ATOM	6312	HA	HIE	421	48.625	87.300	92.162	0.00	0.00
ATOM	6313	CB	HIE	421	50.228	88.240	91.262	0.00	0.00
ATOM	6314	HB2	HIE	421	50.207	87.656	90.342	0.00	0.00
ATOM	6315	HB3	HIE	421	50.611	89.218	90.970	0.00	0.00
ATOM	6316	CG	HIE	421	51.153	87.655	92.272	0.00	0.00
ATOM	6317	ND1	HIE	421	52.128	88.274	93.050	0.00	0.00

ATOM	6318	CE1	HIE	421	52.788	87.352	93.801	0.00	0.00
ATOM	6319	HE1	HIE	421	53.628	87.446	94.473	0.00	0.00
ATOM	6320	NE2	HIE	421	52.411	86.149	93.286	0.00	0.00
ATOM	6321	HE2	HIE	421	52.886	85.271	93.445	0.00	0.00
ATOM	6322	CD2	HIE	421	51.332	86.308	92.487	0.00	0.00
ATOM	6323	HD2	HIE	421	50.862	85.508	91.934	0.00	0.00
ATOM	6324	C	HIE	421	48.739	89.333	92.940	0.00	0.00
ATOM	6325	O	HIE	421	48.152	90.391	92.699	0.00	0.00
ATOM	6326	N	GLU	422	49.273	88.968	94.104	0.00	0.00
ATOM	6327	H	GLU	422	49.640	88.030	94.183	0.00	0.00
ATOM	6328	CA	GLU	422	49.248	89.888	95.223	0.00	0.00
ATOM	6329	HA	GLU	422	48.332	90.476	95.161	0.00	0.00
ATOM	6330	CB	GLU	422	49.302	89.145	96.544	0.00	0.00
ATOM	6331	HB2	GLU	422	49.028	89.718	97.429	0.00	0.00
ATOM	6332	HB3	GLU	422	48.477	88.439	96.453	0.00	0.00
ATOM	6333	CG	GLU	422	50.613	88.394	96.805	0.00	0.00
ATOM	6334	HG2	GLU	422	50.646	87.573	96.088	0.00	0.00
ATOM	6335	HG3	GLU	422	51.522	88.940	96.554	0.00	0.00
ATOM	6336	CD	GLU	422	50.753	87.932	98.251	0.00	0.00
ATOM	6337	OE1	GLU	422	50.575	88.709	99.209	0.00	0.00
ATOM	6338	OE2	GLU	422	51.042	86.743	98.534	0.00	0.00
ATOM	6339	C	GLU	422	50.321	90.993	95.154	0.00	0.00
ATOM	6340	O	GLU	422	50.131	92.052	95.743	0.00	0.00
ATOM	6341	N	ASP	423	51.433	90.710	94.492	0.00	0.00
ATOM	6342	H	ASP	423	51.622	89.722	94.404	0.00	0.00
ATOM	6343	CA	ASP	423	52.548	91.648	94.629	0.00	0.00

ATOM	6344	HA	ASP	423	52.482	92.069	95.632	0.00	0.00
ATOM	6345	CB	ASP	423	53.840	90.849	94.422	0.00	0.00
ATOM	6346	HB2	ASP	423	53.682	90.139	93.611	0.00	0.00
ATOM	6347	HB3	ASP	423	54.655	91.534	94.186	0.00	0.00
ATOM	6348	CG	ASP	423	54.293	90.116	95.643	0.00	0.00
ATOM	6349	OD1	ASP	423	53.603	90.071	96.704	0.00	0.00
ATOM	6350	OD2	ASP	423	55.244	89.400	95.432	0.00	0.00
ATOM	6351	C	ASP	423	52.436	92.713	93.520	0.00	0.00
ATOM	6352	O	ASP	423	52.779	93.831	93.870	0.00	0.00
ATOM	6353	N	TRP	424	51.781	92.514	92.299	0.00	0.00
ATOM	6354	H	TRP	424	51.381	91.595	92.173	0.00	0.00
ATOM	6355	CA	TRP	424	51.400	93.586	91.383	0.00	0.00
ATOM	6356	HA	TRP	424	52.167	94.353	91.276	0.00	0.00
ATOM	6357	CB	TRP	424	51.186	93.013	89.945	0.00	0.00
ATOM	6358	HB2	TRP	424	50.557	92.133	90.076	0.00	0.00
ATOM	6359	HB3	TRP	424	50.732	93.824	89.375	0.00	0.00
ATOM	6360	CG	TRP	424	52.350	92.614	89.124	0.00	0.00
ATOM	6361	CD1	TRP	424	52.433	91.430	88.523	0.00	0.00
ATOM	6362	HD1	TRP	424	51.749	90.607	88.669	0.00	0.00
ATOM	6363	NE1	TRP	424	53.559	91.413	87.672	0.00	0.00
ATOM	6364	HE1	TRP	424	53.954	90.532	87.375	0.00	0.00
ATOM	6365	CE2	TRP	424	54.133	92.655	87.566	0.00	0.00
ATOM	6366	CZ2	TRP	424	55.157	93.104	86.794	0.00	0.00
ATOM	6367	HZ2	TRP	424	55.741	92.486	86.129	0.00	0.00
ATOM	6368	CH2	TRP	424	55.634	94.428	86.929	0.00	0.00
ATOM	6369	HH2	TRP	424	56.491	94.668	86.317	0.00	0.00



ATOM	6370	CZ3	TRP	424	54.835	95.340	87.703	0.00	0.00
ATOM	6371	HZ3	TRP	424	55.296	96.317	87.694	0.00	0.00
ATOM	6372	CE3	TRP	424	53.767	94.864	88.466	0.00	0.00
ATOM	6373	HE3	TRP	424	53.411	95.573	89.198	0.00	0.00
ATOM	6374	CD2	TRP	424	53.402	93.440	88.507	0.00	0.00
ATOM	6375	C	TRP	424	50.049	94.261	91.858	0.00	0.00
ATOM	6376	O	TRP	424	49.576	95.122	91.123	0.00	0.00
ATOM	6377	N	GLY	425	49.380	93.861	92.976	0.00	0.00
ATOM	6378	H	GLY	425	49.686	93.073	93.528	0.00	0.00
ATOM	6379	CA	GLY	425	48.186	94.513	93.483	0.00	0.00
ATOM	6380	HA2	GLY	425	48.375	94.620	94.551	0.00	0.00
ATOM	6381	HA3	GLY	425	48.042	95.545	93.162	0.00	0.00
ATOM	6382	C	GLY	425	46.811	93.845	93.343	0.00	0.00
ATOM	6383	O	GLY	425	46.285	93.983	92.237	0.00	0.00
ATOM	6384	N	ALA	426	46.307	93.062	94.240	0.00	0.00
ATOM	6385	H	ALA	426	46.799	93.075	95.122	0.00	0.00
ATOM	6386	CA	ALA	426	45.195	92.184	93.903	0.00	0.00
ATOM	6387	HA	ALA	426	45.192	92.105	92.816	0.00	0.00
ATOM	6388	CB	ALA	426	45.430	90.798	94.525	0.00	0.00
ATOM	6389	HB1	ALA	426	46.239	90.388	93.921	0.00	0.00
ATOM	6390	HB2	ALA	426	45.762	90.717	95.560	0.00	0.00
ATOM	6391	HB3	ALA	426	44.593	90.110	94.406	0.00	0.00
ATOM	6392	C	ALA	426	43.814	92.784	94.325	0.00	0.00
ATOM	6393	O	ALA	426	43.121	92.078	95.004	0.00	0.00
ATOM	6394	N	THR	427	43.470	94.049	93.992	0.00	0.00
ATOM	6395	H	THR	427	43.883	94.409	93.144	0.00	0.00

ATOM	6396	CA	THR	427	42.371	94.772	94.628	0.00	0.00
ATOM	6397	HA	THR	427	42.343	94.425	95.661	0.00	0.00
ATOM	6398	CB	THR	427	42.653	96.301	94.587	0.00	0.00
ATOM	6399	HB	THR	427	41.934	96.997	95.021	0.00	0.00
ATOM	6400	CG2	THR	427	44.004	96.710	95.065	0.00	0.00
ATOM	6401	1HG2	THR	427	44.011	97.744	95.410	0.00	0.00
ATOM	6402	2HG2	THR	427	44.323	96.007	95.834	0.00	0.00
ATOM	6403	3HG2	THR	427	44.796	96.609	94.323	0.00	0.00
ATOM	6404	OG1	THR	427	42.696	96.699	93.190	0.00	0.00
ATOM	6405	HG1	THR	427	42.838	97.640	93.066	0.00	0.00
ATOM	6406	C	THR	427	41.025	94.375	94.026	0.00	0.00
ATOM	6407	O	THR	427	40.994	93.879	92.920	0.00	0.00
ATOM	6408	N	PRO	428	39.863	94.710	94.651	0.00	0.00
ATOM	6409	CD	PRO	428	39.739	95.082	96.066	0.00	0.00
ATOM	6410	HD2	PRO	428	40.378	94.598	96.805	0.00	0.00
ATOM	6411	HD3	PRO	428	39.947	96.147	96.170	0.00	0.00
ATOM	6412	CG	PRO	428	38.247	94.839	96.399	0.00	0.00
ATOM	6413	HG2	PRO	428	38.233	93.799	96.723	0.00	0.00
ATOM	6414	HG3	PRO	428	37.774	95.325	97.252	0.00	0.00
ATOM	6415	CB	PRO	428	37.439	94.995	95.159	0.00	0.00
ATOM	6416	HB2	PRO	428	36.480	94.498	95.013	0.00	0.00
ATOM	6417	HB3	PRO	428	37.142	96.012	94.906	0.00	0.00
ATOM	6418	CA	PRO	428	38.468	94.510	94.074	0.00	0.00
ATOM	6419	HA	PRO	428	38.258	93.459	93.878	0.00	0.00
ATOM	6420	C	PRO	428	38.165	95.257	92.776	0.00	0.00
ATOM	6421	O	PRO	428	37.486	94.753	91.881	0.00	0.00

ATOM	6422	N	ALA	429	38.868	96.424	92.587	0.00	0.00
ATOM	6423	H	ALA	429	39.396	96.882	93.315	0.00	0.00
ATOM	6424	CA	ALA	429	38.868	97.157	91.316	0.00	0.00
ATOM	6425	HA	ALA	429	37.858	97.263	90.919	0.00	0.00
ATOM	6426	CB	ALA	429	39.422	98.567	91.525	0.00	0.00
ATOM	6427	HB1	ALA	429	40.397	98.550	92.011	0.00	0.00
ATOM	6428	HB2	ALA	429	39.541	99.035	90.548	0.00	0.00
ATOM	6429	HB3	ALA	429	38.703	99.160	92.089	0.00	0.00
ATOM	6430	C	ALA	429	39.593	96.454	90.230	0.00	0.00
ATOM	6431	O	ALA	429	39.240	96.640	89.067	0.00	0.00
ATOM	6432	N	ALA	430	40.619	95.639	90.515	0.00	0.00
ATOM	6433	H	ALA	430	41.070	95.726	91.414	0.00	0.00
ATOM	6434	CA	ALA	430	41.408	95.004	89.455	0.00	0.00
ATOM	6435	HA	ALA	430	41.331	95.534	88.506	0.00	0.00
ATOM	6436	CB	ALA	430	42.874	94.936	89.929	0.00	0.00
ATOM	6437	HB1	ALA	430	43.385	94.306	89.201	0.00	0.00
ATOM	6438	HB2	ALA	430	43.319	95.931	89.919	0.00	0.00
ATOM	6439	HB3	ALA	430	42.957	94.493	90.921	0.00	0.00
ATOM	6440	C	ALA	430	40.822	93.603	89.236	0.00	0.00
ATOM	6441	O	ALA	430	40.628	93.102	88.174	0.00	0.00
ATOM	6442	N	ILE	431	40.298	93.021	90.344	0.00	0.00
ATOM	6443	H	ILE	431	40.590	93.420	91.225	0.00	0.00
ATOM	6444	CA	ILE	431	39.503	91.762	90.359	0.00	0.00
ATOM	6445	HA	ILE	431	40.163	91.070	89.836	0.00	0.00
ATOM	6446	CB	ILE	431	39.245	91.214	91.789	0.00	0.00
ATOM	6447	HB	ILE	431	38.880	91.983	92.469	0.00	0.00

ATOM	6448	CG2	ILE	431	38.166	90.108	91.844	0.00	0.00
ATOM	6449	1HG2	ILE	431	38.536	89.159	91.458	0.00	0.00
ATOM	6450	2HG2	ILE	431	37.897	89.921	92.883	0.00	0.00
ATOM	6451	3HG2	ILE	431	37.256	90.311	91.279	0.00	0.00
ATOM	6452	CG1	ILE	431	40.559	90.608	92.378	0.00	0.00
ATOM	6453	2HG1	ILE	431	40.689	89.584	92.029	0.00	0.00
ATOM	6454	3HG1	ILE	431	41.458	91.157	92.100	0.00	0.00
ATOM	6455	CD1	ILE	431	40.454	90.706	93.942	0.00	0.00
ATOM	6456	1HD1	ILE	431	40.377	91.745	94.264	0.00	0.00
ATOM	6457	2HD1	ILE	431	39.712	90.089	94.449	0.00	0.00
ATOM	6458	3HD1	ILE	431	41.369	90.327	94.397	0.00	0.00
ATOM	6459	C	ILE	431	38.259	91.779	89.492	0.00	0.00
ATOM	6460	O	ILE	431	38.154	90.907	88.630	0.00	0.00
ATOM	6461	N	ASP	432	37.404	92.825	89.639	0.00	0.00
ATOM	6462	H	ASP	432	37.651	93.443	90.399	0.00	0.00
ATOM	6463	CA	ASP	432	36.139	92.934	88.924	0.00	0.00
ATOM	6464	HA	ASP	432	35.692	91.944	88.833	0.00	0.00
ATOM	6465	CB	ASP	432	35.153	94.004	89.531	0.00	0.00
ATOM	6466	HB2	ASP	432	34.825	93.809	90.552	0.00	0.00
ATOM	6467	HB3	ASP	432	35.597	94.999	89.539	0.00	0.00
ATOM	6468	CG	ASP	432	33.847	94.199	88.771	0.00	0.00
ATOM	6469	OD1	ASP	432	33.356	93.174	88.223	0.00	0.00
ATOM	6470	OD2	ASP	432	33.417	95.369	88.592	0.00	0.00
ATOM	6471	C	ASP	432	36.383	93.309	87.424	0.00	0.00
ATOM	6472	O	ASP	432	35.714	92.845	86.487	0.00	0.00
ATOM	6473	N	CYS	433	37.497	94.091	87.188	0.00	0.00

ATOM	6474	H	CYS	433	37.968	94.585	87.932	0.00	0.00
ATOM	6475	CA	CYS	433	37.909	94.548	85.850	0.00	0.00
ATOM	6476	HA	CYS	433	37.069	95.034	85.354	0.00	0.00
ATOM	6477	CB	CYS	433	39.026	95.645	85.965	0.00	0.00
ATOM	6478	HB2	CYS	433	38.689	96.281	86.783	0.00	0.00
ATOM	6479	HB3	CYS	433	40.003	95.324	86.327	0.00	0.00
ATOM	6480	SG	CYS	433	39.325	96.523	84.382	0.00	0.00
ATOM	6481	HG	CYS	433	38.108	96.546	83.832	0.00	0.00
ATOM	6482	C	CYS	433	38.309	93.332	85.059	0.00	0.00
ATOM	6483	O	CYS	433	37.823	93.162	83.915	0.00	0.00
ATOM	6484	N	ALA	434	39.209	92.481	85.568	0.00	0.00
ATOM	6485	H	ALA	434	39.621	92.772	86.443	0.00	0.00
ATOM	6486	CA	ALA	434	39.708	91.283	84.796	0.00	0.00
ATOM	6487	HA	ALA	434	40.077	91.634	83.833	0.00	0.00
ATOM	6488	CB	ALA	434	40.859	90.660	85.478	0.00	0.00
ATOM	6489	HB1	ALA	434	40.502	90.267	86.431	0.00	0.00
ATOM	6490	HB2	ALA	434	41.230	89.875	84.819	0.00	0.00
ATOM	6491	HB3	ALA	434	41.533	91.498	85.652	0.00	0.00
ATOM	6492	C	ALA	434	38.505	90.374	84.548	0.00	0.00
ATOM	6493	O	ALA	434	38.404	89.848	83.438	0.00	0.00
ATOM	6494	N	LEU	435	37.510	90.346	85.445	0.00	0.00
ATOM	6495	H	LEU	435	37.668	90.804	86.331	0.00	0.00
ATOM	6496	CA	LEU	435	36.334	89.466	85.252	0.00	0.00
ATOM	6497	HA	LEU	435	36.680	88.571	84.735	0.00	0.00
ATOM	6498	CB	LEU	435	35.796	88.967	86.620	0.00	0.00
ATOM	6499	HB2	LEU	435	35.618	89.897	87.160	0.00	0.00

ATOM	6500	HB3	LEU	435	34.833	88.459	86.555	0.00	0.00
ATOM	6501	CG	LEU	435	36.741	88.117	87.330	0.00	0.00
ATOM	6502	HG	LEU	435	37.769	88.448	87.184	0.00	0.00
ATOM	6503	CD1	LEU	435	36.469	88.070	88.797	0.00	0.00
ATOM	6504	1HD1	LEU	435	35.394	87.985	88.952	0.00	0.00
ATOM	6505	2HD1	LEU	435	37.058	87.270	89.245	0.00	0.00
ATOM	6506	3HD1	LEU	435	36.732	89.064	89.159	0.00	0.00
ATOM	6507	CD2	LEU	435	36.712	86.699	86.824	0.00	0.00
ATOM	6508	1HD2	LEU	435	36.284	86.577	85.829	0.00	0.00
ATOM	6509	2HD2	LEU	435	37.640	86.127	86.807	0.00	0.00
ATOM	6510	3HD2	LEU	435	36.001	86.172	87.461	0.00	0.00
ATOM	6511	C	LEU	435	35.184	90.021	84.387	0.00	0.00
ATOM	6512	O	LEU	435	34.209	89.364	84.136	0.00	0.00
ATOM	6513	N	THR	436	35.200	91.307	84.017	0.00	0.00
ATOM	6514	H	THR	436	35.891	91.842	84.524	0.00	0.00
ATOM	6515	CA	THR	436	34.312	92.024	83.166	0.00	0.00
ATOM	6516	HA	THR	436	33.356	91.514	83.277	0.00	0.00
ATOM	6517	CB	THR	436	34.174	93.508	83.680	0.00	0.00
ATOM	6518	HB	THR	436	35.132	94.027	83.646	0.00	0.00
ATOM	6519	CG2	THR	436	33.131	94.311	82.904	0.00	0.00
ATOM	6520	1HG2	THR	436	32.814	95.242	83.374	0.00	0.00
ATOM	6521	2HG2	THR	436	33.606	94.464	81.935	0.00	0.00
ATOM	6522	3HG2	THR	436	32.238	93.706	82.745	0.00	0.00
ATOM	6523	OG1	THR	436	33.711	93.464	85.034	0.00	0.00
ATOM	6524	HG1	THR	436	34.415	93.027	85.518	0.00	0.00
ATOM	6525	C	THR	436	34.676	92.025	81.687	0.00	0.00

ATOM	6526	O	THR	436	33.895	91.631	80.863	0.00	0.00
ATOM	6527	N	VAL	437	35.928	92.446	81.441	0.00	0.00
ATOM	6528	H	VAL	437	36.517	92.727	82.212	0.00	0.00
ATOM	6529	CA	VAL	437	36.534	92.366	80.155	0.00	0.00
ATOM	6530	HA	VAL	437	36.034	93.025	79.445	0.00	0.00
ATOM	6531	CB	VAL	437	37.987	92.852	80.168	0.00	0.00
ATOM	6532	HB	VAL	437	38.530	92.215	80.866	0.00	0.00
ATOM	6533	CG1	VAL	437	38.597	92.645	78.765	0.00	0.00
ATOM	6534	1HG1	VAL	437	37.930	93.200	78.105	0.00	0.00
ATOM	6535	2HG1	VAL	437	39.562	93.132	78.629	0.00	0.00
ATOM	6536	3HG1	VAL	437	38.644	91.597	78.469	0.00	0.00
ATOM	6537	CG2	VAL	437	38.074	94.319	80.536	0.00	0.00
ATOM	6538	1HG2	VAL	437	37.486	94.838	79.779	0.00	0.00
ATOM	6539	2HG2	VAL	437	37.609	94.435	81.515	0.00	0.00
ATOM	6540	3HG2	VAL	437	39.093	94.700	80.590	0.00	0.00
ATOM	6541	C	VAL	437	36.539	90.812	79.681	0.00	0.00
ATOM	6542	O	VAL	437	36.293	90.487	78.492	0.00	0.00
ATOM	6543	N	ALA	438	36.715	89.825	80.577	0.00	0.00
ATOM	6544	H	ALA	438	36.924	90.070	81.534	0.00	0.00
ATOM	6545	CA	ALA	438	36.526	88.393	80.296	0.00	0.00
ATOM	6546	HA	ALA	438	37.312	87.987	79.659	0.00	0.00
ATOM	6547	CB	ALA	438	36.903	87.751	81.683	0.00	0.00
ATOM	6548	HB1	ALA	438	36.607	86.702	81.684	0.00	0.00
ATOM	6549	HB2	ALA	438	37.956	87.902	81.919	0.00	0.00
ATOM	6550	HB3	ALA	438	36.352	88.226	82.494	0.00	0.00
ATOM	6551	C	ALA	438	35.131	88.060	79.772	0.00	0.00

ATOM	6552	O	ALA	438	34.910	87.015	79.196	0.00	0.00
ATOM	6553	N	ASP	439	34.106	88.854	80.079	0.00	0.00
ATOM	6554	H	ASP	439	34.257	89.686	80.630	0.00	0.00
ATOM	6555	CA	ASP	439	32.696	88.744	79.632	0.00	0.00
ATOM	6556	HA	ASP	439	32.426	87.693	79.536	0.00	0.00
ATOM	6557	CB	ASP	439	31.694	89.231	80.673	0.00	0.00
ATOM	6558	HB2	ASP	439	31.864	88.756	81.640	0.00	0.00
ATOM	6559	HB3	ASP	439	31.685	90.317	80.760	0.00	0.00
ATOM	6560	CG	ASP	439	30.303	88.702	80.321	0.00	0.00
ATOM	6561	OD1	ASP	439	29.484	89.493	79.741	0.00	0.00
ATOM	6562	OD2	ASP	439	30.104	87.462	80.537	0.00	0.00
ATOM	6563	C	ASP	439	32.416	89.304	78.235	0.00	0.00
ATOM	6564	O	ASP	439	31.487	88.914	77.590	0.00	0.00
ATOM	6565	N	GLU	440	33.339	90.055	77.700	0.00	0.00
ATOM	6566	H	GLU	440	34.199	90.186	78.212	0.00	0.00
ATOM	6567	CA	GLU	440	33.264	90.562	76.310	0.00	0.00
ATOM	6568	HA	GLU	440	32.307	90.254	75.891	0.00	0.00
ATOM	6569	CB	GLU	440	33.119	92.073	76.408	0.00	0.00
ATOM	6570	HB2	GLU	440	32.984	92.524	75.425	0.00	0.00
ATOM	6571	HB3	GLU	440	32.215	92.252	76.991	0.00	0.00
ATOM	6572	CG	GLU	440	34.425	92.683	76.974	0.00	0.00
ATOM	6573	HG2	GLU	440	34.551	92.637	78.055	0.00	0.00
ATOM	6574	HG3	GLU	440	35.371	92.241	76.661	0.00	0.00
ATOM	6575	CD	GLU	440	34.408	94.184	76.508	0.00	0.00
ATOM	6576	OE1	GLU	440	33.770	94.936	77.199	0.00	0.00
ATOM	6577	OE2	GLU	440	35.230	94.636	75.656	0.00	0.00



ATOM	6578	C	GLU	440	34.242	90.039	75.361	0.00	0.00
ATOM	6579	O	GLU	440	34.224	90.372	74.157	0.00	0.00
ATOM	6580	N	MET	441	35.227	89.279	75.885	0.00	0.00
ATOM	6581	H	MET	441	35.386	89.209	76.880	0.00	0.00
ATOM	6582	CA	MET	441	36.385	88.698	75.163	0.00	0.00
ATOM	6583	HA	MET	441	36.276	88.916	74.100	0.00	0.00
ATOM	6584	CB	MET	441	37.666	89.454	75.600	0.00	0.00
ATOM	6585	HB2	MET	441	37.423	90.307	76.234	0.00	0.00
ATOM	6586	HB3	MET	441	38.387	88.751	76.016	0.00	0.00
ATOM	6587	CG	MET	441	38.254	90.171	74.312	0.00	0.00
ATOM	6588	HG2	MET	441	38.755	89.393	73.737	0.00	0.00
ATOM	6589	HG3	MET	441	37.393	90.629	73.824	0.00	0.00
ATOM	6590	SD	MET	441	39.406	91.392	74.779	0.00	0.00
ATOM	6591	CE	MET	441	39.756	92.176	73.171	0.00	0.00
ATOM	6592	HE1	MET	441	39.886	93.243	73.352	0.00	0.00
ATOM	6593	HE2	MET	441	40.754	91.861	72.867	0.00	0.00
ATOM	6594	HE3	MET	441	39.012	92.009	72.392	0.00	0.00
ATOM	6595	C	MET	441	36.591	87.217	75.372	0.00	0.00
ATOM	6596	O	MET	441	37.497	86.685	74.740	0.00	0.00
ATOM	6597	N	ASP	442	35.818	86.461	76.196	0.00	0.00
ATOM	6598	H	ASP	442	35.205	86.986	76.803	0.00	0.00
ATOM	6599	CA	ASP	442	35.855	85.003	76.235	0.00	0.00
ATOM	6600	HA	ASP	442	35.419	84.759	77.204	0.00	0.00
ATOM	6601	CB	ASP	442	34.966	84.421	75.076	0.00	0.00
ATOM	6602	HB2	ASP	442	33.996	84.891	75.240	0.00	0.00
ATOM	6603	HB3	ASP	442	35.439	84.611	74.112	0.00	0.00

ATOM	6604	CG	ASP	442	34.682	82.924	75.174	0.00	0.00
ATOM	6605	OD1	ASP	442	35.111	82.243	76.126	0.00	0.00
ATOM	6606	OD2	ASP	442	34.126	82.431	74.188	0.00	0.00
ATOM	6607	C	ASP	442	37.190	84.278	76.257	0.00	0.00
ATOM	6608	O	ASP	442	37.731	83.751	75.300	0.00	0.00
ATOM	6609	N	ILE	443	37.576	84.277	77.489	0.00	0.00
ATOM	6610	H	ILE	443	36.872	84.513	78.173	0.00	0.00
ATOM	6611	CA	ILE	443	38.874	83.861	77.999	0.00	0.00
ATOM	6612	HA	ILE	443	39.306	83.080	77.373	0.00	0.00
ATOM	6613	CB	ILE	443	39.890	85.049	77.946	0.00	0.00
ATOM	6614	HB	ILE	443	40.847	84.813	78.410	0.00	0.00
ATOM	6615	CG2	ILE	443	40.299	85.448	76.493	0.00	0.00
ATOM	6616	1HG2	ILE	443	41.077	86.211	76.541	0.00	0.00
ATOM	6617	2HG2	ILE	443	40.708	84.523	76.087	0.00	0.00
ATOM	6618	3HG2	ILE	443	39.449	85.647	75.841	0.00	0.00
ATOM	6619	CG1	ILE	443	39.412	86.249	78.780	0.00	0.00
ATOM	6620	2HG1	ILE	443	38.424	86.601	78.485	0.00	0.00
ATOM	6621	3HG1	ILE	443	39.376	85.791	79.769	0.00	0.00
ATOM	6622	CD1	ILE	443	40.384	87.472	78.863	0.00	0.00
ATOM	6623	1HD1	ILE	443	40.078	87.957	79.790	0.00	0.00
ATOM	6624	2HD1	ILE	443	41.435	87.191	78.926	0.00	0.00
ATOM	6625	3HD1	ILE	443	40.226	88.112	77.995	0.00	0.00
ATOM	6626	C	ILE	443	38.783	83.285	79.432	0.00	0.00
ATOM	6627	O	ILE	443	37.666	83.179	80.000	0.00	0.00
ATOM	6628	N	GLN	444	39.933	83.022	80.050	0.00	0.00
ATOM	6629	H	GLN	444	40.816	83.157	79.578	0.00	0.00

ATOM	6630	CA	GLN	444	40.027	82.517	81.462	0.00	0.00
ATOM	6631	HA	GLN	444	39.015	82.481	81.866	0.00	0.00
ATOM	6632	CB	GLN	444	40.550	81.065	81.472	0.00	0.00
ATOM	6633	HB2	GLN	444	39.900	80.453	80.847	0.00	0.00
ATOM	6634	HB3	GLN	444	41.553	80.925	81.069	0.00	0.00
ATOM	6635	CG	GLN	444	40.497	80.363	82.867	0.00	0.00
ATOM	6636	HG2	GLN	444	41.007	79.417	82.683	0.00	0.00
ATOM	6637	HG3	GLN	444	41.168	80.806	83.603	0.00	0.00
ATOM	6638	CD	GLN	444	39.092	80.172	83.491	0.00	0.00
ATOM	6639	OE1	GLN	444	38.712	81.042	84.243	0.00	0.00
ATOM	6640	NE2	GLN	444	38.285	79.264	83.003	0.00	0.00
ATOM	6641	1HE2	GLN	444	37.324	79.248	83.314	0.00	0.00
ATOM	6642	2HE2	GLN	444	38.658	78.614	82.325	0.00	0.00
ATOM	6643	C	GLN	444	40.909	83.347	82.410	0.00	0.00
ATOM	6644	O	GLN	444	41.797	84.067	81.956	0.00	0.00
ATOM	6645	N	VAL	445	40.491	83.415	83.669	0.00	0.00
ATOM	6646	H	VAL	445	39.757	82.792	83.973	0.00	0.00
ATOM	6647	CA	VAL	445	41.153	84.260	84.653	0.00	0.00
ATOM	6648	HA	VAL	445	42.050	84.766	84.295	0.00	0.00
ATOM	6649	CB	VAL	445	40.221	85.396	85.192	0.00	0.00
ATOM	6650	HB	VAL	445	39.364	84.896	85.644	0.00	0.00
ATOM	6651	CG1	VAL	445	40.949	86.325	86.152	0.00	0.00
ATOM	6652	1HG1	VAL	445	41.100	85.916	87.151	0.00	0.00
ATOM	6653	2HG1	VAL	445	41.875	86.699	85.715	0.00	0.00
ATOM	6654	3HG1	VAL	445	40.353	87.215	86.355	0.00	0.00
ATOM	6655	CG2	VAL	445	39.718	86.269	84.052	0.00	0.00

ATOM	6656	1HG2	VAL	445	40.549	86.759	83.546	0.00	0.00
ATOM	6657	2HG2	VAL	445	39.160	85.790	83.247	0.00	0.00
ATOM	6658	3HG2	VAL	445	38.956	86.873	84.545	0.00	0.00
ATOM	6659	C	VAL	445	41.673	83.372	85.879	0.00	0.00
ATOM	6660	O	VAL	445	40.855	82.542	86.361	0.00	0.00
ATOM	6661	N	ALA	446	42.907	83.666	86.347	0.00	0.00
ATOM	6662	H	ALA	446	43.402	84.360	85.806	0.00	0.00
ATOM	6663	CA	ALA	446	43.551	83.038	87.511	0.00	0.00
ATOM	6664	HA	ALA	446	42.829	82.332	87.921	0.00	0.00
ATOM	6665	CB	ALA	446	44.793	82.328	87.029	0.00	0.00
ATOM	6666	HB1	ALA	446	45.486	82.944	86.456	0.00	0.00
ATOM	6667	HB2	ALA	446	45.298	81.982	87.931	0.00	0.00
ATOM	6668	HB3	ALA	446	44.547	81.435	86.455	0.00	0.00
ATOM	6669	C	ALA	446	43.747	84.046	88.651	0.00	0.00
ATOM	6670	O	ALA	446	43.979	85.256	88.504	0.00	0.00
ATOM	6671	N	LEU	447	43.615	83.526	89.900	0.00	0.00
ATOM	6672	H	LEU	447	43.390	82.541	89.935	0.00	0.00
ATOM	6673	CA	LEU	447	43.882	84.177	91.216	0.00	0.00
ATOM	6674	HA	LEU	447	44.199	85.211	91.086	0.00	0.00
ATOM	6675	CB	LEU	447	42.628	84.089	92.126	0.00	0.00
ATOM	6676	HB2	LEU	447	41.758	84.404	91.549	0.00	0.00
ATOM	6677	HB3	LEU	447	42.405	83.028	92.234	0.00	0.00
ATOM	6678	CG	LEU	447	42.543	84.861	93.469	0.00	0.00
ATOM	6679	HG	LEU	447	43.388	84.691	94.136	0.00	0.00
ATOM	6680	CD1	LEU	447	42.541	86.344	93.125	0.00	0.00
ATOM	6681	1HD1	LEU	447	41.769	86.528	92.378	0.00	0.00

ATOM	6682	2HD1	LEU	447	42.271	86.874	94.039	0.00	0.00
ATOM	6683	3HD1	LEU	447	43.451	86.762	92.694	0.00	0.00
ATOM	6684	CD2	LEU	447	41.195	84.466	94.188	0.00	0.00
ATOM	6685	1HD2	LEU	447	40.971	85.354	94.779	0.00	0.00
ATOM	6686	2HD2	LEU	447	40.409	84.345	93.443	0.00	0.00
ATOM	6687	3HD2	LEU	447	41.300	83.555	94.777	0.00	0.00
ATOM	6688	C	LEU	447	45.082	83.608	91.934	0.00	0.00
ATOM	6689	O	LEU	447	45.179	82.401	92.219	0.00	0.00
ATOM	6690	N	H11	448	45.872	84.533	92.553	0.00	0.00
ATOM	6691	H	H11	448	45.747	85.489	92.250	0.00	0.00
ATOM	6692	CA	H11	448	46.627	84.486	93.800	0.00	0.00
ATOM	6693	HA	H11	448	46.470	83.583	94.390	0.00	0.00
ATOM	6694	CB	H11	448	48.095	84.420	93.494	0.00	0.00
ATOM	6695	HB2	H11	448	48.307	83.502	92.947	0.00	0.00
ATOM	6696	HB3	H11	448	48.270	85.261	92.823	0.00	0.00
ATOM	6697	CG	H11	448	49.194	84.499	94.557	0.00	0.00
ATOM	6698	ND1	H11	448	50.379	83.703	94.712	0.00	0.00
ATOM	6699	CE1	H11	448	50.971	84.117	95.815	0.00	0.00
ATOM	6700	HE1	H11	448	51.942	83.717	96.066	0.00	0.00
ATOM	6701	NE2	H11	448	50.239	85.082	96.435	0.00	0.00
ATOM	6702	HE2	H11	448	50.288	85.426	97.383	0.00	0.00
ATOM	6703	CD2	H11	448	49.133	85.335	95.600	0.00	0.00
ATOM	6704	HD2	H11	448	48.367	86.061	95.831	0.00	0.00
ATOM	6705	C	H11	448	46.206	85.748	94.585	0.00	0.00
ATOM	6706	O	H11	448	46.531	86.854	94.175	0.00	0.00
ATOM	6707	N	SER	449	45.378	85.622	95.653	0.00	0.00

ATOM	6708	H	SER	449	45.029	84.703	95.884	0.00	0.00
ATOM	6709	CA	SER	449	44.904	86.784	96.479	0.00	0.00
ATOM	6710	HA	SER	449	44.710	87.621	95.808	0.00	0.00
ATOM	6711	CB	SER	449	43.563	86.481	97.206	0.00	0.00
ATOM	6712	HB2	SER	449	43.193	87.267	97.865	0.00	0.00
ATOM	6713	HB3	SER	449	42.818	86.310	96.430	0.00	0.00
ATOM	6714	OG	SER	449	43.749	85.302	97.999	0.00	0.00
ATOM	6715	HG	SER	449	43.734	84.601	97.343	0.00	0.00
ATOM	6716	C	SER	449	46.059	87.254	97.450	0.00	0.00
ATOM	6717	O	SER	449	47.098	86.622	97.659	0.00	0.00
ATOM	6718	N	ASP	450	45.954	88.398	98.044	0.00	0.00
ATOM	6719	H	ASP	450	45.094	88.925	98.022	0.00	0.00
ATOM	6720	CA	ASP	450	46.903	88.995	99.011	0.00	0.00
ATOM	6721	HA	ASP	450	47.893	88.831	98.585	0.00	0.00
ATOM	6722	CB	ASP	450	46.775	90.504	99.014	0.00	0.00
ATOM	6723	HB2	ASP	450	47.611	90.980	99.527	0.00	0.00
ATOM	6724	HB3	ASP	450	46.806	90.853	97.982	0.00	0.00
ATOM	6725	CG	ASP	450	45.498	91.063	99.710	0.00	0.00
ATOM	6726	OD1	ASP	450	44.412	90.747	99.205	0.00	0.00
ATOM	6727	OD2	ASP	450	45.684	91.823	100.687	0.00	0.00
ATOM	6728	C	ASP	450	46.894	88.442	100.368	0.00	0.00
ATOM	6729	O	ASP	450	45.876	88.249	101.036	0.00	0.00
ATOM	6730	N	THR	451	48.126	88.216	100.798	0.00	0.00
ATOM	6731	H	THR	451	48.896	88.355	100.159	0.00	0.00
ATOM	6732	CA	THR	451	48.409	87.792	102.175	0.00	0.00
ATOM	6733	HA	THR	451	47.870	86.858	102.334	0.00	0.00

ATOM	6734	CB	THR	451	49.893	87.527	102.373	0.00	0.00
ATOM	6735	HB	THR	451	50.368	88.503	102.470	0.00	0.00
ATOM	6736	CG2	THR	451	50.248	86.739	103.592	0.00	0.00
ATOM	6737	1HG2	THR	451	49.690	87.094	104.459	0.00	0.00
ATOM	6738	2HG2	THR	451	49.939	85.716	103.379	0.00	0.00
ATOM	6739	3HG2	THR	451	51.331	86.814	103.695	0.00	0.00
ATOM	6740	OG1	THR	451	50.602	86.835	101.366	0.00	0.00
ATOM	6741	HG1	THR	451	50.661	87.434	100.618	0.00	0.00
ATOM	6742	C	THR	451	47.909	88.807	103.168	0.00	0.00
ATOM	6743	O	THR	451	47.435	88.498	104.240	0.00	0.00
ATOM	6744	N	LEU	452	48.011	90.077	102.749	0.00	0.00
ATOM	6745	H	LEU	452	48.528	90.318	101.916	0.00	0.00
ATOM	6746	CA	LEU	452	47.690	91.234	103.659	0.00	0.00
ATOM	6747	HA	LEU	452	48.271	91.284	104.580	0.00	0.00
ATOM	6748	CB	LEU	452	48.151	92.477	102.827	0.00	0.00
ATOM	6749	HB2	LEU	452	48.032	92.260	101.765	0.00	0.00
ATOM	6750	HB3	LEU	452	47.496	93.282	103.160	0.00	0.00
ATOM	6751	CG	LEU	452	49.657	93.028	102.968	0.00	0.00
ATOM	6752	HG	LEU	452	49.738	93.240	104.034	0.00	0.00
ATOM	6753	CD1	LEU	452	50.711	91.943	102.726	0.00	0.00
ATOM	6754	1HD1	LEU	452	50.716	91.727	101.657	0.00	0.00
ATOM	6755	2HD1	LEU	452	51.705	92.288	103.008	0.00	0.00
ATOM	6756	3HD1	LEU	452	50.422	90.999	103.187	0.00	0.00
ATOM	6757	CD2	LEU	452	49.852	94.354	102.243	0.00	0.00
ATOM	6758	1HD2	LEU	452	50.913	94.600	102.285	0.00	0.00
ATOM	6759	2HD2	LEU	452	49.478	94.315	101.220	0.00	0.00

ATOM	6760	3HD2	LEU	452	49.334	95.203	102.689	0.00	0.00
ATOM	6761	C	LEU	452	46.168	91.319	104.073	0.00	0.00
ATOM	6762	O	LEU	452	45.882	91.988	105.092	0.00	0.00
ATOM	6763	N	ASN	453	45.266	90.726	103.309	0.00	0.00
ATOM	6764	H	ASN	453	45.655	90.451	102.418	0.00	0.00
ATOM	6765	CA	ASN	453	43.789	90.882	103.453	0.00	0.00
ATOM	6766	HA	ASN	453	43.348	90.503	102.531	0.00	0.00
ATOM	6767	CB	ASN	453	43.281	90.093	104.721	0.00	0.00
ATOM	6768	HB2	ASN	453	43.353	90.828	105.522	0.00	0.00
ATOM	6769	HB3	ASN	453	42.212	89.937	104.578	0.00	0.00
ATOM	6770	CG	ASN	453	43.988	88.839	105.002	0.00	0.00
ATOM	6771	OD1	ASN	453	44.058	88.014	104.130	0.00	0.00
ATOM	6772	ND2	ASN	453	44.264	88.643	106.251	0.00	0.00
ATOM	6773	1HD2	ASN	453	44.375	87.687	106.558	0.00	0.00
ATOM	6774	2HD2	ASN	453	44.220	89.415	106.902	0.00	0.00
ATOM	6775	C	ASN	453	43.439	92.381	103.600	0.00	0.00
ATOM	6776	O	ASN	453	42.647	92.794	104.445	0.00	0.00
ATOM	6777	N	GLU	454	44.007	93.127	102.670	0.00	0.00
ATOM	6778	H	GLU	454	44.356	92.746	101.802	0.00	0.00
ATOM	6779	CA	GLU	454	44.147	94.589	102.694	0.00	0.00
ATOM	6780	HA	GLU	454	44.471	94.930	103.677	0.00	0.00
ATOM	6781	CB	GLU	454	45.182	95.144	101.659	0.00	0.00
ATOM	6782	HB2	GLU	454	46.013	94.439	101.661	0.00	0.00
ATOM	6783	HB3	GLU	454	44.759	95.134	100.654	0.00	0.00
ATOM	6784	CG	GLU	454	45.824	96.486	102.007	0.00	0.00
ATOM	6785	HG2	GLU	454	45.030	97.233	101.992	0.00	0.00



ATOM	6786	HG3	GLU	454	46.170	96.507	103.041	0.00	0.00
ATOM	6787	CD	GLU	454	46.999	96.838	101.138	0.00	0.00
ATOM	6788	OE1	GLU	454	47.181	96.327	100.015	0.00	0.00
ATOM	6789	OE2	GLU	454	47.865	97.669	101.511	0.00	0.00
ATOM	6790	C	GLU	454	42.825	95.297	102.327	0.00	0.00
ATOM	6791	O	GLU	454	42.326	96.183	102.975	0.00	0.00
ATOM	6792	N	SER	455	42.151	94.805	101.267	0.00	0.00
ATOM	6793	H	SER	455	42.470	93.993	100.759	0.00	0.00
ATOM	6794	CA	SER	455	40.931	95.485	100.727	0.00	0.00
ATOM	6795	HA	SER	455	41.039	96.554	100.910	0.00	0.00
ATOM	6796	CB	SER	455	40.908	95.335	99.210	0.00	0.00
ATOM	6797	HB2	SER	455	40.572	94.324	98.979	0.00	0.00
ATOM	6798	HB3	SER	455	40.263	96.150	98.880	0.00	0.00
ATOM	6799	OG	SER	455	42.076	95.619	98.480	0.00	0.00
ATOM	6800	HG	SER	455	42.899	95.338	98.886	0.00	0.00
ATOM	6801	C	SER	455	39.583	94.898	101.324	0.00	0.00
ATOM	6802	O	SER	455	38.561	95.468	101.114	0.00	0.00
ATOM	6803	N	GLY	456	39.672	93.660	101.966	0.00	0.00
ATOM	6804	H	GLY	456	40.548	93.164	102.053	0.00	0.00
ATOM	6805	CA	GLY	456	38.481	92.907	102.271	0.00	0.00
ATOM	6806	HA2	GLY	456	38.070	93.314	103.194	0.00	0.00
ATOM	6807	HA3	GLY	456	37.713	93.039	101.509	0.00	0.00
ATOM	6808	C	GLY	456	38.752	91.414	102.334	0.00	0.00
ATOM	6809	O	GLY	456	39.509	90.869	101.597	0.00	0.00
ATOM	6810	N	PHE	457	38.063	90.621	103.132	0.00	0.00
ATOM	6811	H	PHE	457	37.571	91.020	103.918	0.00	0.00

ATOM	6812	CA	PHE	457	38.237	89.172	103.320	0.00	0.00
ATOM	6813	HA	PHE	457	39.306	88.962	103.369	0.00	0.00
ATOM	6814	CB	PHE	457	37.667	88.870	104.681	0.00	0.00
ATOM	6815	HB2	PHE	457	36.604	89.110	104.693	0.00	0.00
ATOM	6816	HB3	PHE	457	37.572	87.788	104.774	0.00	0.00
ATOM	6817	CG	PHE	457	38.521	89.331	105.843	0.00	0.00
ATOM	6818	CD1	PHE	457	37.975	90.125	106.873	0.00	0.00
ATOM	6819	HD1	PHE	457	36.920	90.317	107.007	0.00	0.00
ATOM	6820	CE1	PHE	457	38.808	90.809	107.777	0.00	0.00
ATOM	6821	HE1	PHE	457	38.405	91.436	108.558	0.00	0.00
ATOM	6822	CZ	PHE	457	40.225	90.475	107.764	0.00	0.00
ATOM	6823	HZ	PHE	457	40.888	90.900	108.503	0.00	0.00
ATOM	6824	CE2	PHE	457	40.774	89.564	106.840	0.00	0.00
ATOM	6825	HE2	PHE	457	41.814	89.281	106.907	0.00	0.00
ATOM	6826	CD2	PHE	457	39.908	88.995	105.908	0.00	0.00
ATOM	6827	HD2	PHE	457	40.330	88.309	105.189	0.00	0.00
ATOM	6828	C	PHE	457	37.512	88.392	102.190	0.00	0.00
ATOM	6829	O	PHE	457	36.971	88.901	101.209	0.00	0.00
ATOM	6830	N	VAL	458	37.621	87.063	102.231	0.00	0.00
ATOM	6831	H	VAL	458	38.182	86.683	102.980	0.00	0.00
ATOM	6832	CA	VAL	458	37.063	86.122	101.221	0.00	0.00
ATOM	6833	HA	VAL	458	37.561	86.324	100.273	0.00	0.00
ATOM	6834	CB	VAL	458	37.486	84.601	101.537	0.00	0.00
ATOM	6835	HB	VAL	458	38.536	84.608	101.829	0.00	0.00
ATOM	6836	CG1	VAL	458	36.818	84.016	102.773	0.00	0.00
ATOM	6837	1HG1	VAL	458	37.167	84.588	103.633	0.00	0.00

ATOM	6838	2HG1	VAL	458	35.734	84.133	102.766	0.00	0.00
ATOM	6839	3HG1	VAL	458	37.134	82.991	102.967	0.00	0.00
ATOM	6840	CG2	VAL	458	37.231	83.630	100.461	0.00	0.00
ATOM	6841	1HG2	VAL	458	37.817	83.966	99.605	0.00	0.00
ATOM	6842	2HG2	VAL	458	37.534	82.606	100.678	0.00	0.00
ATOM	6843	3HG2	VAL	458	36.176	83.570	100.195	0.00	0.00
ATOM	6844	C	VAL	458	35.557	86.211	100.933	0.00	0.00
ATOM	6845	O	VAL	458	35.163	86.010	99.812	0.00	0.00
ATOM	6846	N	GLU	459	34.805	86.657	101.960	0.00	0.00
ATOM	6847	H	GLU	459	35.132	86.649	102.915	0.00	0.00
ATOM	6848	CA	GLU	459	33.375	86.965	101.708	0.00	0.00
ATOM	6849	HA	GLU	459	32.966	86.094	101.197	0.00	0.00
ATOM	6850	CB	GLU	459	32.658	87.068	103.046	0.00	0.00
ATOM	6851	HB2	GLU	459	31.576	87.035	102.915	0.00	0.00
ATOM	6852	HB3	GLU	459	32.852	86.123	103.552	0.00	0.00
ATOM	6853	CG	GLU	459	33.125	88.264	103.973	0.00	0.00
ATOM	6854	HG2	GLU	459	33.656	88.969	103.335	0.00	0.00
ATOM	6855	HG3	GLU	459	32.263	88.730	104.451	0.00	0.00
ATOM	6856	CD	GLU	459	34.202	87.960	105.001	0.00	0.00
ATOM	6857	OE1	GLU	459	34.256	88.596	106.065	0.00	0.00
ATOM	6858	OE2	GLU	459	34.892	86.954	104.844	0.00	0.00
ATOM	6859	C	GLU	459	33.031	88.207	100.836	0.00	0.00
ATOM	6860	O	GLU	459	31.893	88.377	100.470	0.00	0.00
ATOM	6861	N	ASP	460	34.000	89.079	100.678	0.00	0.00
ATOM	6862	H	ASP	460	34.903	88.847	101.068	0.00	0.00
ATOM	6863	CA	ASP	460	34.125	90.330	99.916	0.00	0.00

ATOM	6864	HA	ASP	460	33.113	90.641	99.656	0.00	0.00
ATOM	6865	CB	ASP	460	34.698	91.400	100.846	0.00	0.00
ATOM	6866	HB2	ASP	460	34.019	91.481	101.695	0.00	0.00
ATOM	6867	HB3	ASP	460	35.629	91.000	101.247	0.00	0.00
ATOM	6868	CG	ASP	460	34.937	92.690	100.104	0.00	0.00
ATOM	6869	OD1	ASP	460	36.056	93.078	99.772	0.00	0.00
ATOM	6870	OD2	ASP	460	33.932	93.361	99.715	0.00	0.00
ATOM	6871	C	ASP	460	34.858	90.084	98.528	0.00	0.00
ATOM	6872	O	ASP	460	34.388	90.487	97.495	0.00	0.00
ATOM	6873	N	THR	461	35.995	89.362	98.621	0.00	0.00
ATOM	6874	H	THR	461	36.315	88.971	99.496	0.00	0.00
ATOM	6875	CA	THR	461	36.757	88.866	97.534	0.00	0.00
ATOM	6876	HA	THR	461	37.188	89.700	96.980	0.00	0.00
ATOM	6877	CB	THR	461	37.936	88.002	97.957	0.00	0.00
ATOM	6878	HB	THR	461	37.626	87.090	98.466	0.00	0.00
ATOM	6879	CG2	THR	461	38.890	87.793	96.804	0.00	0.00
ATOM	6880	1HG2	THR	461	38.360	87.403	95.935	0.00	0.00
ATOM	6881	2HG2	THR	461	39.189	88.754	96.384	0.00	0.00
ATOM	6882	3HG2	THR	461	39.729	87.163	97.101	0.00	0.00
ATOM	6883	OG1	THR	461	38.697	88.723	98.885	0.00	0.00
ATOM	6884	HG1	THR	461	38.675	89.660	98.677	0.00	0.00
ATOM	6885	C	THR	461	35.944	88.042	96.531	0.00	0.00
ATOM	6886	O	THR	461	35.912	88.375	95.396	0.00	0.00
ATOM	6887	N	LEU	462	35.214	87.055	97.057	0.00	0.00
ATOM	6888	H	LEU	462	35.282	86.920	98.056	0.00	0.00
ATOM	6889	CA	LEU	462	34.179	86.323	96.296	0.00	0.00

ATOM	6890	HA	LEU	462	34.721	86.038	95.394	0.00	0.00
ATOM	6891	CB	LEU	462	33.671	85.052	96.989	0.00	0.00
ATOM	6892	HB2	LEU	462	33.644	85.174	98.072	0.00	0.00
ATOM	6893	HB3	LEU	462	32.694	84.759	96.604	0.00	0.00
ATOM	6894	CG	LEU	462	34.531	83.864	96.712	0.00	0.00
ATOM	6895	HG	LEU	462	34.602	83.738	95.632	0.00	0.00
ATOM	6896	CD1	LEU	462	35.956	83.902	97.128	0.00	0.00
ATOM	6897	1HD1	LEU	462	35.986	84.149	98.189	0.00	0.00
ATOM	6898	2HD1	LEU	462	36.404	82.925	96.948	0.00	0.00
ATOM	6899	3HD1	LEU	462	36.486	84.743	96.682	0.00	0.00
ATOM	6900	CD2	LEU	462	33.890	82.647	97.304	0.00	0.00
ATOM	6901	1HD2	LEU	462	34.363	81.704	97.028	0.00	0.00
ATOM	6902	2HD2	LEU	462	33.914	82.729	98.391	0.00	0.00
ATOM	6903	3HD2	LEU	462	32.859	82.467	97.000	0.00	0.00
ATOM	6904	C	LEU	462	32.995	87.134	95.812	0.00	0.00
ATOM	6905	O	LEU	462	32.440	86.723	94.796	0.00	0.00
ATOM	6906	N	ALA	463	32.690	88.231	96.497	0.00	0.00
ATOM	6907	H	ALA	463	33.237	88.560	97.280	0.00	0.00
ATOM	6908	CA	ALA	463	31.476	89.083	96.113	0.00	0.00
ATOM	6909	HA	ALA	463	30.714	88.445	95.666	0.00	0.00
ATOM	6910	CB	ALA	463	30.983	89.603	97.372	0.00	0.00
ATOM	6911	HB1	ALA	463	29.988	90.028	97.240	0.00	0.00
ATOM	6912	HB2	ALA	463	30.917	88.759	98.059	0.00	0.00
ATOM	6913	HB3	ALA	463	31.671	90.297	97.855	0.00	0.00
ATOM	6914	C	ALA	463	31.835	90.101	95.007	0.00	0.00
ATOM	6915	O	ALA	463	31.004	90.408	94.155	0.00	0.00

ATOM	6916	N	ALA	464	33.101	90.559	94.987	0.00	0.00
ATOM	6917	H	ALA	464	33.752	90.538	95.758	0.00	0.00
ATOM	6918	CA	ALA	464	33.640	91.201	93.794	0.00	0.00
ATOM	6919	HA	ALA	464	32.927	91.952	93.454	0.00	0.00
ATOM	6920	CB	ALA	464	34.974	91.827	94.241	0.00	0.00
ATOM	6921	HB1	ALA	464	35.677	91.097	94.641	0.00	0.00
ATOM	6922	HB2	ALA	464	35.489	92.205	93.358	0.00	0.00
ATOM	6923	HB3	ALA	464	34.704	92.530	95.029	0.00	0.00
ATOM	6924	C	ALA	464	33.889	90.196	92.541	0.00	0.00
ATOM	6925	O	ALA	464	33.627	90.528	91.375	0.00	0.00
ATOM	6926	N	ILE	465	34.287	88.976	92.850	0.00	0.00
ATOM	6927	H	ILE	465	34.593	88.745	93.785	0.00	0.00
ATOM	6928	CA	ILE	465	34.326	87.862	91.859	0.00	0.00
ATOM	6929	HA	ILE	465	34.979	88.236	91.070	0.00	0.00
ATOM	6930	CB	ILE	465	35.137	86.603	92.253	0.00	0.00
ATOM	6931	HB	ILE	465	34.651	86.302	93.181	0.00	0.00
ATOM	6932	CG2	ILE	465	34.964	85.429	91.248	0.00	0.00
ATOM	6933	1HG2	ILE	465	35.025	85.781	90.218	0.00	0.00
ATOM	6934	2HG2	ILE	465	35.691	84.660	91.513	0.00	0.00
ATOM	6935	3HG2	ILE	465	33.998	84.950	91.404	0.00	0.00
ATOM	6936	CG1	ILE	465	36.660	86.912	92.442	0.00	0.00
ATOM	6937	2HG1	ILE	465	37.014	87.107	91.430	0.00	0.00
ATOM	6938	3HG1	ILE	465	36.649	87.829	93.031	0.00	0.00
ATOM	6939	CD1	ILE	465	37.443	85.846	93.199	0.00	0.00
ATOM	6940	1HD1	ILE	465	38.402	86.245	93.529	0.00	0.00
ATOM	6941	2HD1	ILE	465	36.794	85.634	94.049	0.00	0.00

ATOM 6942 3HD1 ILE 465 37.520 84.910 92.646 0.00 0.00  
ATOM 6943 C ILE 465 33.006 87.569 91.182 0.00 0.00  
ATOM 6944 O ILE 465 32.894 87.445 89.986 0.00 0.00  
ATOM 6945 N GLY 466 31.907 87.695 91.995 0.00 0.00  
ATOM 6946 H GLY 466 32.030 87.861 92.984 0.00 0.00  
ATOM 6947 CA GLY 466 30.508 87.840 91.503 0.00 0.00  
ATOM 6948 HA2 GLY 466 29.759 87.906 92.292 0.00 0.00  
ATOM 6949 HA3 GLY 466 30.484 88.749 90.901 0.00 0.00  
ATOM 6950 C GLY 466 30.018 86.635 90.672 0.00 0.00  
ATOM 6951 O GLY 466 29.546 86.744 89.495 0.00 0.00  
ATOM 6952 N GLY 467 30.203 85.445 91.185 0.00 0.00  
ATOM 6953 H GLY 467 30.779 85.294 92.001 0.00 0.00  
ATOM 6954 CA GLY 467 29.736 84.255 90.452 0.00 0.00  
ATOM 6955 HA2 GLY 467 29.970 83.440 91.137 0.00 0.00  
ATOM 6956 HA3 GLY 467 28.659 84.345 90.308 0.00 0.00  
ATOM 6957 C GLY 467 30.419 83.986 89.137 0.00 0.00  
ATOM 6958 O GLY 467 29.976 83.084 88.366 0.00 0.00  
ATOM 6959 N ARG 468 31.487 84.692 88.745 0.00 0.00  
ATOM 6960 H ARG 468 31.822 85.404 89.378 0.00 0.00  
ATOM 6961 CA ARG 468 32.151 84.508 87.438 0.00 0.00  
ATOM 6962 HA ARG 468 31.477 84.047 86.717 0.00 0.00  
ATOM 6963 CB ARG 468 32.450 85.883 86.865 0.00 0.00  
ATOM 6964 HB2 ARG 468 33.081 86.405 87.585 0.00 0.00  
ATOM 6965 HB3 ARG 468 32.945 85.733 85.906 0.00 0.00  
ATOM 6966 CG ARG 468 31.180 86.698 86.580 0.00 0.00  
ATOM 6967 HG2 ARG 468 30.863 86.352 85.596 0.00 0.00

ATOM	6968	HG3	ARG	468	30.243	86.570	87.121	0.00	0.00
ATOM	6969	CD	ARG	468	31.384	88.210	86.408	0.00	0.00
ATOM	6970	HD2	ARG	468	31.996	88.425	85.532	0.00	0.00
ATOM	6971	HD3	ARG	468	30.389	88.649	86.328	0.00	0.00
ATOM	6972	NE	ARG	468	32.062	88.832	87.553	0.00	0.00
ATOM	6973	HE	ARG	468	32.128	88.279	88.396	0.00	0.00
ATOM	6974	CZ	ARG	468	32.778	89.993	87.604	0.00	0.00
ATOM	6975	NH1	ARG	468	32.672	90.872	86.615	0.00	0.00
ATOM	6976	1HH1	ARG	468	33.082	91.774	86.814	0.00	0.00
ATOM	6977	2HH1	ARG	468	32.319	90.593	85.711	0.00	0.00
ATOM	6978	NH2	ARG	468	33.388	90.373	88.608	0.00	0.00
ATOM	6979	1HH2	ARG	468	33.759	91.311	88.552	0.00	0.00
ATOM	6980	2HH2	ARG	468	33.233	89.918	89.496	0.00	0.00
ATOM	6981	C	ARG	468	33.298	83.556	87.373	0.00	0.00
ATOM	6982	O	ARG	468	33.845	83.272	88.409	0.00	0.00
ATOM	6983	N	THR	469	33.563	82.953	86.234	0.00	0.00
ATOM	6984	H	THR	469	32.868	83.120	85.521	0.00	0.00
ATOM	6985	CA	THR	469	34.305	81.666	86.229	0.00	0.00
ATOM	6986	HA	THR	469	33.825	80.990	86.937	0.00	0.00
ATOM	6987	CB	THR	469	34.057	81.018	84.905	0.00	0.00
ATOM	6988	HB	THR	469	34.591	81.614	84.166	0.00	0.00
ATOM	6989	CG2	THR	469	34.755	79.705	84.884	0.00	0.00
ATOM	6990	1HG2	THR	469	34.605	79.210	83.924	0.00	0.00
ATOM	6991	2HG2	THR	469	35.802	79.832	85.160	0.00	0.00
ATOM	6992	3HG2	THR	469	34.328	79.103	85.685	0.00	0.00
ATOM	6993	OG1	THR	469	32.713	80.799	84.532	0.00	0.00



ATOM	6994	HG1	THR	469	32.322	81.655	84.342	0.00	0.00
ATOM	6995	C	THR	469	35.792	81.889	86.531	0.00	0.00
ATOM	6996	O	THR	469	36.334	82.859	85.999	0.00	0.00
ATOM	6997	N	ILE	470	36.500	81.184	87.402	0.00	0.00
ATOM	6998	H	ILE	470	35.924	80.458	87.804	0.00	0.00
ATOM	6999	CA	ILE	470	37.827	81.608	87.835	0.00	0.00
ATOM	7000	HA	ILE	470	38.371	81.972	86.964	0.00	0.00
ATOM	7001	CB	ILE	470	37.771	82.787	88.814	0.00	0.00
ATOM	7002	HB	ILE	470	37.082	83.500	88.359	0.00	0.00
ATOM	7003	CG2	ILE	470	37.241	82.399	90.159	0.00	0.00
ATOM	7004	1HG2	ILE	470	36.312	81.859	89.979	0.00	0.00
ATOM	7005	2HG2	ILE	470	38.020	81.805	90.636	0.00	0.00
ATOM	7006	3HG2	ILE	470	37.010	83.241	90.811	0.00	0.00
ATOM	7007	CG1	ILE	470	39.123	83.504	89.072	0.00	0.00
ATOM	7008	2HG1	ILE	470	39.809	82.753	89.464	0.00	0.00
ATOM	7009	3HG1	ILE	470	39.556	83.891	88.150	0.00	0.00
ATOM	7010	CD1	ILE	470	39.083	84.596	90.140	0.00	0.00
ATOM	7011	1HD1	ILE	470	40.000	85.180	90.053	0.00	0.00
ATOM	7012	2HD1	ILE	470	38.311	85.326	89.899	0.00	0.00
ATOM	7013	3HD1	ILE	470	38.903	84.157	91.121	0.00	0.00
ATOM	7014	C	ILE	470	38.701	80.410	88.354	0.00	0.00
ATOM	7015	O	ILE	470	38.283	79.599	89.178	0.00	0.00
ATOM	7016	N	HID	471	39.951	80.369	87.957	0.00	0.00
ATOM	7017	H	HID	471	40.329	81.079	87.347	0.00	0.00
ATOM	7018	CA	HID	471	40.913	79.376	88.395	0.00	0.00
ATOM	7019	HA	HID	471	40.307	78.539	88.742	0.00	0.00

ATOM	7020	CB	HID	471	41.855	78.925	87.255	0.00	0.00
ATOM	7021	HB2	HID	471	41.219	78.764	86.384	0.00	0.00
ATOM	7022	HB3	HID	471	42.452	79.769	86.908	0.00	0.00
ATOM	7023	CG	HID	471	42.687	77.647	87.336	0.00	0.00
ATOM	7024	ND1	HID	471	43.551	77.173	86.412	0.00	0.00
ATOM	7025	HD1	HID	471	43.653	77.375	85.427	0.00	0.00
ATOM	7026	CE1	HID	471	44.212	76.073	86.936	0.00	0.00
ATOM	7027	HE1	HID	471	44.982	75.466	86.483	0.00	0.00
ATOM	7028	NE2	HID	471	43.878	75.973	88.212	0.00	0.00
ATOM	7029	CD2	HID	471	42.915	76.935	88.470	0.00	0.00
ATOM	7030	HD2	HID	471	42.655	77.267	89.464	0.00	0.00
ATOM	7031	C	HID	471	41.579	79.979	89.729	0.00	0.00
ATOM	7032	O	HID	471	42.239	80.983	89.718	0.00	0.00
ATOM	7033	N	THR	472	41.385	79.294	90.829	0.00	0.00
ATOM	7034	H	THR	472	40.832	78.449	90.854	0.00	0.00
ATOM	7035	CA	THR	472	42.143	79.649	91.978	0.00	0.00
ATOM	7036	HA	THR	472	42.429	80.699	91.922	0.00	0.00
ATOM	7037	CB	THR	472	41.235	79.578	93.284	0.00	0.00
ATOM	7038	HB	THR	472	41.936	79.642	94.117	0.00	0.00
ATOM	7039	CG2	THR	472	40.306	80.789	93.372	0.00	0.00
ATOM	7040	1HG2	THR	472	39.787	80.808	92.414	0.00	0.00
ATOM	7041	2HG2	THR	472	39.632	80.532	94.189	0.00	0.00
ATOM	7042	3HG2	THR	472	40.925	81.632	93.680	0.00	0.00
ATOM	7043	OG1	THR	472	40.521	78.424	93.468	0.00	0.00
ATOM	7044	HG1	THR	472	41.161	77.773	93.765	0.00	0.00
ATOM	7045	C	THR	472	43.299	78.645	91.967	0.00	0.00

ATOM	7046	O	THR	472	43.098	77.439	92.067	0.00	0.00
ATOM	7047	N	PHE	473	44.504	79.149	91.874	0.00	0.00
ATOM	7048	H	PHE	473	44.613	80.130	91.656	0.00	0.00
ATOM	7049	CA	PHE	473	45.778	78.414	92.114	0.00	0.00
ATOM	7050	HA	PHE	473	45.846	77.369	91.813	0.00	0.00
ATOM	7051	CB	PHE	473	46.883	79.153	91.405	0.00	0.00
ATOM	7052	HB2	PHE	473	46.937	80.152	91.837	0.00	0.00
ATOM	7053	HB3	PHE	473	47.812	78.661	91.693	0.00	0.00
ATOM	7054	CG	PHE	473	46.941	79.125	89.908	0.00	0.00
ATOM	7055	CD1	PHE	473	47.216	80.244	89.176	0.00	0.00
ATOM	7056	HD1	PHE	473	47.492	81.172	89.655	0.00	0.00
ATOM	7057	CE1	PHE	473	47.076	80.268	87.777	0.00	0.00
ATOM	7058	HE1	PHE	473	47.234	81.196	87.247	0.00	0.00
ATOM	7059	CZ	PHE	473	46.854	79.078	87.093	0.00	0.00
ATOM	7060	HZ	PHE	473	46.776	79.076	86.015	0.00	0.00
ATOM	7061	CE2	PHE	473	46.657	77.882	87.799	0.00	0.00
ATOM	7062	HE2	PHE	473	46.555	76.949	87.265	0.00	0.00
ATOM	7063	CD2	PHE	473	46.819	77.891	89.188	0.00	0.00
ATOM	7064	HD2	PHE	473	46.778	76.987	89.778	0.00	0.00
ATOM	7065	C	PHE	473	45.940	78.304	93.635	0.00	0.00
ATOM	7066	O	PHE	473	45.471	79.189	94.406	0.00	0.00
ATOM	7067	N	H12	474	46.582	77.163	94.011	0.00	0.00
ATOM	7068	H	H12	474	46.581	76.377	93.377	0.00	0.00
ATOM	7069	CA	H12	474	47.168	76.876	95.315	0.00	0.00
ATOM	7070	HA	H12	474	47.351	75.803	95.271	0.00	0.00
ATOM	7071	CB	H12	474	48.568	77.470	95.333	0.00	0.00

ATOM	7072	HB2	H12	474	49.000	77.445	96.334	0.00	0.00
ATOM	7073	HB3	H12	474	49.266	76.954	94.673	0.00	0.00
ATOM	7074	CG	H12	474	48.730	78.918	94.854	0.00	0.00
ATOM	7075	ND1	H12	474	48.076	80.021	95.354	0.00	0.00
ATOM	7076	HD1	H12	474	47.216	80.047	95.882	0.00	0.00
ATOM	7077	CE1	H12	474	48.736	81.112	94.785	0.00	0.00
ATOM	7078	HE1	H12	474	48.415	82.131	94.937	0.00	0.00
ATOM	7079	NE2	H12	474	49.829	80.773	94.107	0.00	0.00
ATOM	7080	CD2	H12	474	49.858	79.381	94.216	0.00	0.00
ATOM	7081	HD2	H12	474	50.696	78.808	93.848	0.00	0.00
ATOM	7082	C	H12	474	46.240	77.309	96.407	0.00	0.00
ATOM	7083	O	H12	474	46.552	78.251	97.160	0.00	0.00
ATOM	7084	N	THR	475	45.110	76.686	96.552	0.00	0.00
ATOM	7085	H	THR	475	44.961	75.907	95.927	0.00	0.00
ATOM	7086	CA	THR	475	43.931	77.104	97.345	0.00	0.00
ATOM	7087	HA	THR	475	43.929	78.194	97.346	0.00	0.00
ATOM	7088	CB	THR	475	42.693	76.641	96.595	0.00	0.00
ATOM	7089	HB	THR	475	42.618	75.554	96.574	0.00	0.00
ATOM	7090	CG2	THR	475	41.350	77.002	97.139	0.00	0.00
ATOM	7091	1HG2	THR	475	41.072	78.029	96.905	0.00	0.00
ATOM	7092	2HG2	THR	475	40.627	76.422	96.564	0.00	0.00
ATOM	7093	3HG2	THR	475	41.218	76.903	98.217	0.00	0.00
ATOM	7094	OG1	THR	475	42.664	77.038	95.231	0.00	0.00
ATOM	7095	HG1	THR	475	43.420	76.530	94.927	0.00	0.00
ATOM	7096	C	THR	475	44.020	76.844	98.843	0.00	0.00
ATOM	7097	O	THR	475	43.141	77.348	99.622	0.00	0.00

ATOM	7098	N	GLU	476	44.954	76.093	99.413	0.00	0.00
ATOM	7099	H	GLU	476	45.637	75.642	98.821	0.00	0.00
ATOM	7100	CA	GLU	476	45.197	76.037	100.908	0.00	0.00
ATOM	7101	HA	GLU	476	44.320	75.661	101.434	0.00	0.00
ATOM	7102	CB	GLU	476	46.306	75.010	101.258	0.00	0.00
ATOM	7103	HB2	GLU	476	46.117	74.053	100.774	0.00	0.00
ATOM	7104	HB3	GLU	476	47.188	75.508	100.855	0.00	0.00
ATOM	7105	CG	GLU	476	46.458	74.598	102.674	0.00	0.00
ATOM	7106	HG2	GLU	476	45.487	74.460	103.149	0.00	0.00
ATOM	7107	HG3	GLU	476	47.130	73.742	102.611	0.00	0.00
ATOM	7108	CD	GLU	476	47.153	75.587	103.547	0.00	0.00
ATOM	7109	OE1	GLU	476	48.160	76.207	103.123	0.00	0.00
ATOM	7110	OE2	GLU	476	46.634	75.914	104.636	0.00	0.00
ATOM	7111	C	GLU	476	45.611	77.399	101.529	0.00	0.00
ATOM	7112	O	GLU	476	45.134	77.909	102.565	0.00	0.00
ATOM	7113	N	GLY	477	46.465	78.120	100.792	0.00	0.00
ATOM	7114	H	GLY	477	46.712	77.667	99.924	0.00	0.00
ATOM	7115	CA	GLY	477	46.910	79.488	101.093	0.00	0.00
ATOM	7116	HA2	GLY	477	46.718	80.119	100.225	0.00	0.00
ATOM	7117	HA3	GLY	477	46.396	79.865	101.976	0.00	0.00
ATOM	7118	C	GLY	477	48.428	79.608	101.269	0.00	0.00
ATOM	7119	O	GLY	477	48.914	80.653	100.894	0.00	0.00
ATOM	7120	N	ALA	478	49.141	78.495	101.604	0.00	0.00
ATOM	7121	H	ALA	478	48.677	77.652	101.911	0.00	0.00
ATOM	7122	CA	ALA	478	50.622	78.391	101.763	0.00	0.00
ATOM	7123	HA	ALA	478	50.857	79.050	102.599	0.00	0.00

ATOM	7124	CB	ALA	478	50.984	76.947	102.175	0.00	0.00
ATOM	7125	HB1	ALA	478	50.695	76.149	101.491	0.00	0.00
ATOM	7126	HB2	ALA	478	52.067	76.834	102.227	0.00	0.00
ATOM	7127	HB3	ALA	478	50.461	76.683	103.094	0.00	0.00
ATOM	7128	C	ALA	478	51.360	78.789	100.524	0.00	0.00
ATOM	7129	O	ALA	478	52.344	79.618	100.446	0.00	0.00
ATOM	7130	N	GLY	479	50.910	78.230	99.402	0.00	0.00
ATOM	7131	H	GLY	479	50.240	77.475	99.384	0.00	0.00
ATOM	7132	CA	GLY	479	51.453	78.687	98.120	0.00	0.00
ATOM	7133	HA2	GLY	479	52.537	78.631	98.221	0.00	0.00
ATOM	7134	HA3	GLY	479	51.225	77.960	97.340	0.00	0.00
ATOM	7135	C	GLY	479	50.967	80.042	97.703	0.00	0.00
ATOM	7136	O	GLY	479	51.751	80.802	97.182	0.00	0.00
ATOM	7137	N	GLY	480	49.721	80.417	98.081	0.00	0.00
ATOM	7138	H	GLY	480	49.176	79.727	98.577	0.00	0.00
ATOM	7139	CA	GLY	480	49.141	81.737	97.906	0.00	0.00
ATOM	7140	HA2	GLY	480	49.758	82.396	98.517	0.00	0.00
ATOM	7141	HA3	GLY	480	49.355	81.992	96.868	0.00	0.00
ATOM	7142	C	GLY	480	47.655	81.938	98.202	0.00	0.00
ATOM	7143	O	GLY	480	46.747	81.320	97.763	0.00	0.00
ATOM	7144	N	GLY	481	47.471	83.000	99.059	0.00	0.00
ATOM	7145	H	GLY	481	48.281	83.409	99.502	0.00	0.00
ATOM	7146	CA	GLY	481	46.112	83.507	99.257	0.00	0.00
ATOM	7147	HA2	GLY	481	45.922	84.153	98.400	0.00	0.00
ATOM	7148	HA3	GLY	481	45.274	82.813	99.219	0.00	0.00
ATOM	7149	C	GLY	481	45.923	84.306	100.548	0.00	0.00

ATOM	7150	O	GLY	481	46.967	84.461	101.194	0.00	0.00
ATOM	7151	N	HIP	482	44.742	84.859	100.818	0.00	0.00
ATOM	7152	H	HIP	482	44.000	84.775	100.138	0.00	0.00
ATOM	7153	CA	HIP	482	44.511	85.475	102.159	0.00	0.00
ATOM	7154	HA	HIP	482	45.153	86.353	102.224	0.00	0.00
ATOM	7155	CB	HIP	482	42.968	85.728	102.318	0.00	0.00
ATOM	7156	HB2	HIP	482	42.461	84.859	101.898	0.00	0.00
ATOM	7157	HB3	HIP	482	42.816	85.822	103.393	0.00	0.00
ATOM	7158	CG	HIP	482	42.431	86.971	101.627	0.00	0.00
ATOM	7159	ND1	HIP	482	43.124	87.964	101.039	0.00	0.00
ATOM	7160	HD1	HIP	482	44.130	87.991	100.951	0.00	0.00
ATOM	7161	CE1	HIP	482	42.265	88.753	100.415	0.00	0.00
ATOM	7162	HE1	HIP	482	42.508	89.587	99.775	0.00	0.00
ATOM	7163	NE2	HIP	482	41.040	88.445	100.736	0.00	0.00
ATOM	7164	HE2	HIP	482	40.164	88.800	100.378	0.00	0.00
ATOM	7165	CD2	HIP	482	41.135	87.196	101.436	0.00	0.00
ATOM	7166	HD2	HIP	482	40.386	86.494	101.770	0.00	0.00
ATOM	7167	C	HIP	482	44.930	84.605	103.338	0.00	0.00
ATOM	7168	O	HIP	482	44.643	83.444	103.338	0.00	0.00
ATOM	7169	N	ALA	483	45.427	85.158	104.442	0.00	0.00
ATOM	7170	H	ALA	483	45.540	86.160	104.391	0.00	0.00
ATOM	7171	CA	ALA	483	45.712	84.422	105.727	0.00	0.00
ATOM	7172	HA	ALA	483	45.550	83.359	105.547	0.00	0.00
ATOM	7173	CB	ALA	483	47.139	84.520	106.203	0.00	0.00
ATOM	7174	HB1	ALA	483	47.345	83.788	106.984	0.00	0.00
ATOM	7175	HB2	ALA	483	47.841	84.363	105.385	0.00	0.00

ATOM	7176	HB3	ALA	483	47.366	85.513	106.592	0.00	0.00
ATOM	7177	C	ALA	483	44.830	84.886	106.917	0.00	0.00
ATOM	7178	O	ALA	483	44.534	86.056	107.049	0.00	0.00
ATOM	7179	N	PRO	484	44.240	84.004	107.706	0.00	0.00
ATOM	7180	CD	PRO	484	43.509	84.444	108.955	0.00	0.00
ATOM	7181	HD2	PRO	484	44.049	85.158	109.578	0.00	0.00
ATOM	7182	HD3	PRO	484	42.492	84.816	108.831	0.00	0.00
ATOM	7183	CG	PRO	484	43.316	83.155	109.713	0.00	0.00
ATOM	7184	HG2	PRO	484	43.746	83.214	110.713	0.00	0.00
ATOM	7185	HG3	PRO	484	42.299	82.764	109.750	0.00	0.00
ATOM	7186	CB	PRO	484	44.216	82.072	109.075	0.00	0.00
ATOM	7187	HB2	PRO	484	45.215	82.141	109.507	0.00	0.00
ATOM	7188	HB3	PRO	484	43.831	81.053	109.105	0.00	0.00
ATOM	7189	CA	PRO	484	44.210	82.573	107.602	0.00	0.00
ATOM	7190	HA	PRO	484	45.117	82.173	107.148	0.00	0.00
ATOM	7191	C	PRO	484	43.143	81.814	106.681	0.00	0.00
ATOM	7192	O	PRO	484	42.571	80.727	107.019	0.00	0.00
ATOM	7193	N	ASP	485	42.707	82.572	105.676	0.00	0.00
ATOM	7194	H	ASP	485	43.198	83.425	105.449	0.00	0.00
ATOM	7195	CA	ASP	485	41.321	82.341	105.281	0.00	0.00
ATOM	7196	HA	ASP	485	40.946	81.346	105.522	0.00	0.00
ATOM	7197	CB	ASP	485	40.509	83.411	106.138	0.00	0.00
ATOM	7198	HB2	ASP	485	40.647	83.185	107.195	0.00	0.00
ATOM	7199	HB3	ASP	485	40.802	84.424	105.864	0.00	0.00
ATOM	7200	CG	ASP	485	39.067	83.367	105.901	0.00	0.00
ATOM	7201	OD1	ASP	485	38.398	84.455	105.894	0.00	0.00



ATOM	7202	OD2	ASP	485	38.551	82.262	105.663	0.00	0.00
ATOM	7203	C	ASP	485	41.147	82.503	103.745	0.00	0.00
ATOM	7204	O	ASP	485	40.800	83.603	103.182	0.00	0.00
ATOM	7205	N	ILE	486	41.264	81.369	103.035	0.00	0.00
ATOM	7206	H	ILE	486	41.358	80.503	103.546	0.00	0.00
ATOM	7207	CA	ILE	486	40.914	81.253	101.646	0.00	0.00
ATOM	7208	HA	ILE	486	40.080	81.953	101.596	0.00	0.00
ATOM	7209	CB	ILE	486	42.144	81.693	100.815	0.00	0.00
ATOM	7210	HB	ILE	486	42.302	82.719	101.148	0.00	0.00
ATOM	7211	CG2	ILE	486	43.298	80.721	100.996	0.00	0.00
ATOM	7212	1HG2	ILE	486	44.137	81.060	100.387	0.00	0.00
ATOM	7213	2HG2	ILE	486	43.761	80.653	101.980	0.00	0.00
ATOM	7214	3HG2	ILE	486	43.057	79.724	100.628	0.00	0.00
ATOM	7215	CG1	ILE	486	41.922	81.728	99.305	0.00	0.00
ATOM	7216	2HG1	ILE	486	42.747	82.339	98.938	0.00	0.00
ATOM	7217	3HG1	ILE	486	42.027	80.723	98.895	0.00	0.00
ATOM	7218	CD1	ILE	486	40.724	82.655	98.879	0.00	0.00
ATOM	7219	1HD1	ILE	486	41.018	83.690	99.054	0.00	0.00
ATOM	7220	2HD1	ILE	486	40.624	82.405	97.822	0.00	0.00
ATOM	7221	3HD1	ILE	486	39.804	82.443	99.424	0.00	0.00
ATOM	7222	C	ILE	486	40.313	79.914	101.198	0.00	0.00
ATOM	7223	O	ILE	486	39.522	79.922	100.245	0.00	0.00
ATOM	7224	N	ILE	487	40.480	78.728	101.860	0.00	0.00
ATOM	7225	H	ILE	487	41.120	78.722	102.642	0.00	0.00
ATOM	7226	CA	ILE	487	40.097	77.471	101.304	0.00	0.00
ATOM	7227	HA	ILE	487	40.371	77.398	100.252	0.00	0.00

ATOM	7228	CB	ILE	487	40.850	76.364	102.134	0.00	0.00
ATOM	7229	HB	ILE	487	41.887	76.696	102.161	0.00	0.00
ATOM	7230	CG2	ILE	487	40.311	76.401	103.617	0.00	0.00
ATOM	7231	1HG2	ILE	487	40.352	77.408	104.030	0.00	0.00
ATOM	7232	2HG2	ILE	487	39.320	75.963	103.740	0.00	0.00
ATOM	7233	3HG2	ILE	487	41.033	75.772	104.138	0.00	0.00
ATOM	7234	CG1	ILE	487	40.865	74.945	101.455	0.00	0.00
ATOM	7235	2HG1	ILE	487	39.838	74.686	101.201	0.00	0.00
ATOM	7236	3HG1	ILE	487	41.336	75.145	100.493	0.00	0.00
ATOM	7237	CD1	ILE	487	41.645	73.823	102.256	0.00	0.00
ATOM	7238	1HD1	ILE	487	40.979	73.450	103.034	0.00	0.00
ATOM	7239	2HD1	ILE	487	41.874	73.057	101.514	0.00	0.00
ATOM	7240	3HD1	ILE	487	42.638	74.133	102.583	0.00	0.00
ATOM	7241	C	ILE	487	38.618	77.168	101.153	0.00	0.00
ATOM	7242	O	ILE	487	38.207	76.493	100.263	0.00	0.00
ATOM	7243	N	THR	488	37.802	77.841	101.927	0.00	0.00
ATOM	7244	H	THR	488	38.180	78.357	102.709	0.00	0.00
ATOM	7245	CA	THR	488	36.345	77.799	101.745	0.00	0.00
ATOM	7246	HA	THR	488	36.240	76.729	101.564	0.00	0.00
ATOM	7247	CB	THR	488	35.649	78.209	103.045	0.00	0.00
ATOM	7248	HB	THR	488	34.580	78.108	102.858	0.00	0.00
ATOM	7249	CG2	THR	488	35.962	77.513	104.393	0.00	0.00
ATOM	7250	1HG2	THR	488	37.051	77.525	104.449	0.00	0.00
ATOM	7251	2HG2	THR	488	35.479	78.046	105.211	0.00	0.00
ATOM	7252	3HG2	THR	488	35.663	76.464	104.388	0.00	0.00
ATOM	7253	OG1	THR	488	35.920	79.564	103.184	0.00	0.00

ATOM	7254	HG1	THR	488	35.067	79.978	103.335	0.00	0.00
ATOM	7255	C	THR	488	35.721	78.351	100.448	0.00	0.00
ATOM	7256	O	THR	488	34.591	78.046	100.176	0.00	0.00
ATOM	7257	N	ALA	489	36.508	78.932	99.603	0.00	0.00
ATOM	7258	H	ALA	489	37.502	78.956	99.780	0.00	0.00
ATOM	7259	CA	ALA	489	36.110	79.256	98.256	0.00	0.00
ATOM	7260	HA	ALA	489	35.140	79.746	98.339	0.00	0.00
ATOM	7261	CB	ALA	489	37.176	80.208	97.754	0.00	0.00
ATOM	7262	HB1	ALA	489	37.219	80.985	98.518	0.00	0.00
ATOM	7263	HB2	ALA	489	38.103	79.638	97.696	0.00	0.00
ATOM	7264	HB3	ALA	489	36.904	80.562	96.759	0.00	0.00
ATOM	7265	C	ALA	489	35.922	77.998	97.334	0.00	0.00
ATOM	7266	O	ALA	489	35.034	77.922	96.431	0.00	0.00
ATOM	7267	N	CYS	490	36.678	76.958	97.575	0.00	0.00
ATOM	7268	H	CYS	490	37.134	77.012	98.475	0.00	0.00
ATOM	7269	CA	CYS	490	36.616	75.682	96.842	0.00	0.00
ATOM	7270	HA	CYS	490	36.711	75.961	95.793	0.00	0.00
ATOM	7271	CB	CYS	490	37.768	74.789	97.368	0.00	0.00
ATOM	7272	HB2	CYS	490	38.066	73.998	96.680	0.00	0.00
ATOM	7273	HB3	CYS	490	38.684	75.370	97.475	0.00	0.00
ATOM	7274	SG	CYS	490	37.390	74.022	98.977	0.00	0.00
ATOM	7275	HG	CYS	490	36.779	75.130	99.406	0.00	0.00
ATOM	7276	C	CYS	490	35.285	74.846	96.998	0.00	0.00
ATOM	7277	O	CYS	490	35.207	73.702	96.573	0.00	0.00
ATOM	7278	N	ALA	491	34.221	75.446	97.579	0.00	0.00
ATOM	7279	H	ALA	491	34.351	76.363	97.981	0.00	0.00

ATOM	7280	CA	ALA	491	32.876	74.859	97.422	0.00	0.00
ATOM	7281	HA	ALA	491	32.949	73.804	97.157	0.00	0.00
ATOM	7282	CB	ALA	491	32.208	74.891	98.842	0.00	0.00
ATOM	7283	HB1	ALA	491	32.293	75.909	99.223	0.00	0.00
ATOM	7284	HB2	ALA	491	31.144	74.709	98.687	0.00	0.00
ATOM	7285	HB3	ALA	491	32.577	74.172	99.574	0.00	0.00
ATOM	7286	C	ALA	491	32.031	75.528	96.291	0.00	0.00
ATOM	7287	O	ALA	491	30.854	75.094	96.110	0.00	0.00
ATOM	7288	N	HIE	492	32.475	76.529	95.591	0.00	0.00
ATOM	7289	H	HIE	492	33.471	76.696	95.608	0.00	0.00
ATOM	7290	CA	HIE	492	31.598	77.358	94.691	0.00	0.00
ATOM	7291	HA	HIE	492	30.603	77.266	95.125	0.00	0.00
ATOM	7292	CB	HIE	492	31.918	78.862	94.877	0.00	0.00
ATOM	7293	HB2	HIE	492	32.993	78.881	94.698	0.00	0.00
ATOM	7294	HB3	HIE	492	31.394	79.377	94.073	0.00	0.00
ATOM	7295	CG	HIE	492	31.651	79.550	96.226	0.00	0.00
ATOM	7296	ND1	HIE	492	30.746	80.653	96.406	0.00	0.00
ATOM	7297	CE1	HIE	492	30.718	80.823	97.745	0.00	0.00
ATOM	7298	HE1	HIE	492	30.065	81.503	98.273	0.00	0.00
ATOM	7299	NE2	HIE	492	31.695	80.103	98.327	0.00	0.00
ATOM	7300	HE2	HIE	492	31.920	80.260	99.300	0.00	0.00
ATOM	7301	CD2	HIE	492	32.283	79.264	97.399	0.00	0.00
ATOM	7302	HD2	HIE	492	33.109	78.583	97.538	0.00	0.00
ATOM	7303	C	HIE	492	31.561	76.902	93.216	0.00	0.00
ATOM	7304	O	HIE	492	32.606	76.550	92.687	0.00	0.00
ATOM	7305	N	PRO	493	30.415	76.977	92.522	0.00	0.00

ATOM	7306	CD	PRO	493	29.151	77.510	93.017	0.00	0.00
ATOM	7307	HD2	PRO	493	28.822	76.829	93.802	0.00	0.00
ATOM	7308	HD3	PRO	493	29.308	78.506	93.432	0.00	0.00
ATOM	7309	CG	PRO	493	28.228	77.421	91.807	0.00	0.00
ATOM	7310	HG2	PRO	493	27.272	77.004	92.126	0.00	0.00
ATOM	7311	HG3	PRO	493	28.025	78.480	91.651	0.00	0.00
ATOM	7312	CB	PRO	493	28.783	76.497	90.769	0.00	0.00
ATOM	7313	HB2	PRO	493	28.245	75.568	90.959	0.00	0.00
ATOM	7314	HB3	PRO	493	28.551	76.894	89.780	0.00	0.00
ATOM	7315	CA	PRO	493	30.261	76.364	91.190	0.00	0.00
ATOM	7316	HA	PRO	493	30.513	75.313	91.333	0.00	0.00
ATOM	7317	C	PRO	493	31.183	76.972	90.173	0.00	0.00
ATOM	7318	O	PRO	493	31.528	76.345	89.215	0.00	0.00
ATOM	7319	N	ASN	494	31.372	78.305	90.247	0.00	0.00
ATOM	7320	H	ASN	494	30.925	78.828	90.987	0.00	0.00
ATOM	7321	CA	ASN	494	32.120	79.062	89.268	0.00	0.00
ATOM	7322	HA	ASN	494	31.849	78.785	88.249	0.00	0.00
ATOM	7323	CB	ASN	494	31.870	80.598	89.421	0.00	0.00
ATOM	7324	HB2	ASN	494	32.541	81.083	88.712	0.00	0.00
ATOM	7325	HB3	ASN	494	30.947	80.853	88.899	0.00	0.00
ATOM	7326	CG	ASN	494	32.016	81.240	90.769	0.00	0.00
ATOM	7327	OD1	ASN	494	31.387	80.804	91.739	0.00	0.00
ATOM	7328	ND2	ASN	494	32.696	82.413	90.953	0.00	0.00
ATOM	7329	1HD2	ASN	494	32.803	82.775	91.889	0.00	0.00
ATOM	7330	2HD2	ASN	494	33.241	82.836	90.215	0.00	0.00
ATOM	7331	C	ASN	494	33.659	78.850	89.427	0.00	0.00

ATOM	7332	O	ASN	494	34.410	79.143	88.498	0.00	0.00
ATOM	7333	N	ILE	495	34.129	78.421	90.622	0.00	0.00
ATOM	7334	H	ILE	495	33.540	78.235	91.421	0.00	0.00
ATOM	7335	CA	ILE	495	35.592	78.349	90.958	0.00	0.00
ATOM	7336	HA	ILE	495	36.193	79.029	90.355	0.00	0.00
ATOM	7337	CB	ILE	495	35.708	78.672	92.475	0.00	0.00
ATOM	7338	HB	ILE	495	34.944	78.071	92.969	0.00	0.00
ATOM	7339	CG2	ILE	495	37.065	78.338	93.123	0.00	0.00
ATOM	7340	1HG2	ILE	495	36.858	78.356	94.193	0.00	0.00
ATOM	7341	2HG2	ILE	495	37.498	77.387	92.809	0.00	0.00
ATOM	7342	3HG2	ILE	495	37.852	79.062	92.912	0.00	0.00
ATOM	7343	CG1	ILE	495	35.416	80.145	92.658	0.00	0.00
ATOM	7344	2HG1	ILE	495	36.126	80.676	92.024	0.00	0.00
ATOM	7345	3HG1	ILE	495	34.414	80.380	92.300	0.00	0.00
ATOM	7346	CD1	ILE	495	35.617	80.658	94.119	0.00	0.00
ATOM	7347	1HD1	ILE	495	35.520	81.741	94.197	0.00	0.00
ATOM	7348	2HD1	ILE	495	34.975	80.140	94.831	0.00	0.00
ATOM	7349	3HD1	ILE	495	36.649	80.505	94.433	0.00	0.00
ATOM	7350	C	ILE	495	36.109	76.868	90.575	0.00	0.00
ATOM	7351	O	ILE	495	35.617	75.811	91.008	0.00	0.00
ATOM	7352	N	LEU	496	37.323	76.974	89.931	0.00	0.00
ATOM	7353	H	LEU	496	37.701	77.838	89.571	0.00	0.00
ATOM	7354	CA	LEU	496	38.067	75.748	89.612	0.00	0.00
ATOM	7355	HA	LEU	496	37.454	74.867	89.801	0.00	0.00
ATOM	7356	CB	LEU	496	38.401	75.747	88.090	0.00	0.00
ATOM	7357	HB2	LEU	496	39.024	76.629	87.940	0.00	0.00

ATOM	7358	HB3	LEU	496	39.038	74.868	87.992	0.00	0.00
ATOM	7359	CG	LEU	496	37.234	75.468	87.160	0.00	0.00
ATOM	7360	HG	LEU	496	37.586	75.204	86.163	0.00	0.00
ATOM	7361	CD1	LEU	496	36.162	74.387	87.557	0.00	0.00
ATOM	7362	1HD1	LEU	496	36.717	73.491	87.835	0.00	0.00
ATOM	7363	2HD1	LEU	496	35.646	74.696	88.466	0.00	0.00
ATOM	7364	3HD1	LEU	496	35.433	74.171	86.776	0.00	0.00
ATOM	7365	CD2	LEU	496	36.471	76.715	86.792	0.00	0.00
ATOM	7366	1HD2	LEU	496	35.858	76.507	85.915	0.00	0.00
ATOM	7367	2HD2	LEU	496	35.835	77.023	87.622	0.00	0.00
ATOM	7368	3HD2	LEU	496	37.167	77.508	86.519	0.00	0.00
ATOM	7369	C	LEU	496	39.284	75.697	90.531	0.00	0.00
ATOM	7370	O	LEU	496	40.250	76.395	90.211	0.00	0.00
ATOM	7371	N	PRO	497	39.309	74.999	91.708	0.00	0.00
ATOM	7372	CD	PRO	497	38.115	74.497	92.315	0.00	0.00
ATOM	7373	HD2	PRO	497	37.389	75.279	92.535	0.00	0.00
ATOM	7374	HD3	PRO	497	37.696	73.731	91.663	0.00	0.00
ATOM	7375	CG	PRO	497	38.502	73.923	93.721	0.00	0.00
ATOM	7376	HG2	PRO	497	37.598	73.899	94.330	0.00	0.00
ATOM	7377	HG3	PRO	497	38.932	72.930	93.590	0.00	0.00
ATOM	7378	CB	PRO	497	39.612	74.848	94.150	0.00	0.00
ATOM	7379	HB2	PRO	497	39.333	75.881	94.360	0.00	0.00
ATOM	7380	HB3	PRO	497	40.184	74.374	94.947	0.00	0.00
ATOM	7381	CA	PRO	497	40.382	74.943	92.748	0.00	0.00
ATOM	7382	HA	PRO	497	40.838	75.922	92.602	0.00	0.00
ATOM	7383	C	PRO	497	41.531	73.979	92.503	0.00	0.00

ATOM	7384	O	PRO	497	41.301	72.749	92.402	0.00	0.00
ATOM	7385	N	SER	498	42.778	74.491	92.393	0.00	0.00
ATOM	7386	H	SER	498	42.949	75.486	92.416	0.00	0.00
ATOM	7387	CA	SER	498	44.015	73.691	92.235	0.00	0.00
ATOM	7388	HA	SER	498	43.820	72.625	92.350	0.00	0.00
ATOM	7389	CB	SER	498	44.621	73.927	90.821	0.00	0.00
ATOM	7390	HB2	SER	498	45.430	73.258	90.527	0.00	0.00
ATOM	7391	HB3	SER	498	43.794	73.845	90.115	0.00	0.00
ATOM	7392	OG	SER	498	45.044	75.229	90.655	0.00	0.00
ATOM	7393	HG	SER	498	44.286	75.707	90.311	0.00	0.00
ATOM	7394	C	SER	498	45.049	73.966	93.275	0.00	0.00
ATOM	7395	O	SER	498	44.950	74.904	94.080	0.00	0.00
ATOM	7396	N	SER	499	46.091	73.127	93.322	0.00	0.00
ATOM	7397	H	SER	499	46.201	72.414	92.616	0.00	0.00
ATOM	7398	CA	SER	499	47.159	73.089	94.376	0.00	0.00
ATOM	7399	HA	SER	499	46.867	73.673	95.249	0.00	0.00
ATOM	7400	CB	SER	499	47.343	71.633	94.725	0.00	0.00
ATOM	7401	HB2	SER	499	48.114	71.601	95.495	0.00	0.00
ATOM	7402	HB3	SER	499	46.483	71.206	95.241	0.00	0.00
ATOM	7403	OG	SER	499	47.692	70.990	93.539	0.00	0.00
ATOM	7404	HG	SER	499	48.576	71.130	93.191	0.00	0.00
ATOM	7405	C	SER	499	48.474	73.671	93.904	0.00	0.00
ATOM	7406	O	SER	499	48.775	73.896	92.674	0.00	0.00
ATOM	7407	N	THR	500	49.373	73.883	94.857	0.00	0.00
ATOM	7408	H	THR	500	49.073	73.584	95.774	0.00	0.00
ATOM	7409	CA	THR	500	50.779	74.097	94.552	0.00	0.00



ATOM	7410	HA	THR	500	50.815	74.618	93.595	0.00	0.00
ATOM	7411	CB	THR	500	51.516	74.866	95.703	0.00	0.00
ATOM	7412	HB	THR	500	52.195	74.183	96.214	0.00	0.00
ATOM	7413	CG2	THR	500	52.260	76.087	95.229	0.00	0.00
ATOM	7414	1HG2	THR	500	52.853	76.557	96.014	0.00	0.00
ATOM	7415	2HG2	THR	500	53.001	75.733	94.511	0.00	0.00
ATOM	7416	3HG2	THR	500	51.583	76.851	94.849	0.00	0.00
ATOM	7417	OG1	THR	500	50.594	75.271	96.770	0.00	0.00
ATOM	7418	HG1	THR	500	50.121	74.505	97.104	0.00	0.00
ATOM	7419	C	THR	500	51.431	72.752	94.391	0.00	0.00
ATOM	7420	O	THR	500	50.778	71.705	94.414	0.00	0.00
ATOM	7421	N	ASN	501	52.726	72.704	94.040	0.00	0.00
ATOM	7422	H	ASN	501	53.255	73.548	93.872	0.00	0.00
ATOM	7423	CA	ASN	501	53.577	71.538	93.908	0.00	0.00
ATOM	7424	HA	ASN	501	52.946	70.675	93.697	0.00	0.00
ATOM	7425	CB	ASN	501	54.378	71.733	92.582	0.00	0.00
ATOM	7426	HB2	ASN	501	53.593	71.508	91.860	0.00	0.00
ATOM	7427	HB3	ASN	501	54.810	72.732	92.531	0.00	0.00
ATOM	7428	CG	ASN	501	55.534	70.746	92.384	0.00	0.00
ATOM	7429	OD1	ASN	501	56.551	70.891	93.043	0.00	0.00
ATOM	7430	ND2	ASN	501	55.384	69.597	91.750	0.00	0.00
ATOM	7431	1HD2	ASN	501	56.114	68.899	91.771	0.00	0.00
ATOM	7432	2HD2	ASN	501	54.512	69.363	91.298	0.00	0.00
ATOM	7433	C	ASN	501	54.451	71.232	95.116	0.00	0.00
ATOM	7434	O	ASN	501	54.490	70.070	95.513	0.00	0.00
ATOM	7435	N	PRO	502	55.228	72.193	95.673	0.00	0.00

ATOM	7436	CD	PRO	502	55.436	73.579	95.207	0.00	0.00
ATOM	7437	HD2	PRO	502	55.792	73.624	94.177	0.00	0.00
ATOM	7438	HD3	PRO	502	54.578	74.237	95.340	0.00	0.00
ATOM	7439	CG	PRO	502	56.561	74.150	96.061	0.00	0.00
ATOM	7440	HG2	PRO	502	57.481	74.253	95.486	0.00	0.00
ATOM	7441	HG3	PRO	502	56.283	75.179	96.291	0.00	0.00
ATOM	7442	CB	PRO	502	56.691	73.272	97.292	0.00	0.00
ATOM	7443	HB2	PRO	502	57.745	73.112	97.522	0.00	0.00
ATOM	7444	HB3	PRO	502	56.144	73.704	98.130	0.00	0.00
ATOM	7445	CA	PRO	502	56.003	71.947	96.900	0.00	0.00
ATOM	7446	HA	PRO	502	56.772	71.250	96.566	0.00	0.00
ATOM	7447	C	PRO	502	55.101	71.479	98.103	0.00	0.00
ATOM	7448	O	PRO	502	55.550	70.708	98.964	0.00	0.00
ATOM	7449	N	THR	503	53.771	71.760	98.052	0.00	0.00
ATOM	7450	H	THR	503	53.278	72.209	97.294	0.00	0.00
ATOM	7451	CA	THR	503	52.839	71.223	99.038	0.00	0.00
ATOM	7452	HA	THR	503	53.234	71.454	100.027	0.00	0.00
ATOM	7453	CB	THR	503	51.507	71.966	98.879	0.00	0.00
ATOM	7454	HB	THR	503	50.737	71.272	99.217	0.00	0.00
ATOM	7455	CG2	THR	503	51.312	73.359	99.548	0.00	0.00
ATOM	7456	1HG2	THR	503	50.253	73.615	99.587	0.00	0.00
ATOM	7457	2HG2	THR	503	51.508	73.208	100.610	0.00	0.00
ATOM	7458	3HG2	THR	503	52.077	74.060	99.213	0.00	0.00
ATOM	7459	OG1	THR	503	51.173	72.102	97.483	0.00	0.00
ATOM	7460	HG1	THR	503	50.224	72.246	97.480	0.00	0.00
ATOM	7461	C	THR	503	52.590	69.696	98.962	0.00	0.00

ATOM	7462	O	THR	503	52.104	69.196	99.992	0.00	0.00
ATOM	7463	N	LEU	504	53.074	68.935	97.943	0.00	0.00
ATOM	7464	H	LEU	504	53.574	69.401	97.200	0.00	0.00
ATOM	7465	CA	LEU	504	52.642	67.499	97.709	0.00	0.00
ATOM	7466	HA	LEU	504	51.902	67.232	98.464	0.00	0.00
ATOM	7467	CB	LEU	504	51.934	67.430	96.342	0.00	0.00
ATOM	7468	HB2	LEU	504	52.656	67.821	95.625	0.00	0.00
ATOM	7469	HB3	LEU	504	51.728	66.411	96.017	0.00	0.00
ATOM	7470	CG	LEU	504	50.618	68.222	96.188	0.00	0.00
ATOM	7471	HG	LEU	504	50.833	69.287	96.275	0.00	0.00
ATOM	7472	CD1	LEU	504	50.157	67.965	94.759	0.00	0.00
ATOM	7473	1HD1	LEU	504	49.864	66.915	94.723	0.00	0.00
ATOM	7474	2HD1	LEU	504	49.199	68.353	94.413	0.00	0.00
ATOM	7475	3HD1	LEU	504	50.960	68.185	94.057	0.00	0.00
ATOM	7476	CD2	LEU	504	49.416	67.836	97.077	0.00	0.00
ATOM	7477	1HD2	LEU	504	49.446	68.504	97.938	0.00	0.00
ATOM	7478	2HD2	LEU	504	48.402	68.031	96.730	0.00	0.00
ATOM	7479	3HD2	LEU	504	49.493	66.821	97.468	0.00	0.00
ATOM	7480	C	LEU	504	53.890	66.621	97.724	0.00	0.00
ATOM	7481	O	LEU	504	54.774	66.816	96.963	0.00	0.00
ATOM	7482	N	PRO	505	53.885	65.470	98.450	0.00	0.00
ATOM	7483	CD	PRO	505	54.643	64.283	98.015	0.00	0.00
ATOM	7484	HD2	PRO	505	54.785	64.240	96.936	0.00	0.00
ATOM	7485	HD3	PRO	505	55.666	64.202	98.384	0.00	0.00
ATOM	7486	CG	PRO	505	53.804	63.149	98.519	0.00	0.00
ATOM	7487	HG2	PRO	505	53.042	62.972	97.761	0.00	0.00

ATOM	7488	HG3	PRO	505	54.366	62.298	98.902	0.00	0.00
ATOM	7489	CB	PRO	505	53.066	63.705	99.748	0.00	0.00
ATOM	7490	HB2	PRO	505	52.072	63.267	99.840	0.00	0.00
ATOM	7491	HB3	PRO	505	53.723	63.366	100.550	0.00	0.00
ATOM	7492	CA	PRO	505	53.049	65.217	99.641	0.00	0.00
ATOM	7493	HA	PRO	505	52.049	65.636	99.523	0.00	0.00
ATOM	7494	C	PRO	505	53.527	65.912	100.895	0.00	0.00
ATOM	7495	O	PRO	505	54.291	66.856	100.853	0.00	0.00
ATOM	7496	N	TYR	506	52.907	65.575	102.017	0.00	0.00
ATOM	7497	H	TYR	506	52.102	64.970	101.944	0.00	0.00
ATOM	7498	CA	TYR	506	53.152	66.174	103.306	0.00	0.00
ATOM	7499	HA	TYR	506	53.387	67.238	103.293	0.00	0.00
ATOM	7500	CB	TYR	506	51.797	66.081	104.080	0.00	0.00
ATOM	7501	HB2	TYR	506	51.043	66.592	103.481	0.00	0.00
ATOM	7502	HB3	TYR	506	51.567	65.016	104.044	0.00	0.00
ATOM	7503	CG	TYR	506	51.787	66.608	105.506	0.00	0.00
ATOM	7504	CD1	TYR	506	52.239	67.931	105.833	0.00	0.00
ATOM	7505	HD1	TYR	506	52.660	68.552	105.056	0.00	0.00
ATOM	7506	CE1	TYR	506	52.035	68.475	107.110	0.00	0.00
ATOM	7507	HE1	TYR	506	52.490	69.428	107.337	0.00	0.00
ATOM	7508	CZ	TYR	506	51.500	67.705	108.086	0.00	0.00
ATOM	7509	OH	TYR	506	51.238	68.315	109.268	0.00	0.00
ATOM	7510	HH	TYR	506	51.493	69.238	109.215	0.00	0.00
ATOM	7511	CE2	TYR	506	51.136	66.380	107.779	0.00	0.00
ATOM	7512	HE2	TYR	506	50.657	65.791	108.547	0.00	0.00
ATOM	7513	CD2	TYR	506	51.265	65.826	106.506	0.00	0.00

ATOM	7514	HD2	TYR	506	50.855	64.858	106.261	0.00	0.00
ATOM	7515	C	TYR	506	54.397	65.419	103.805	0.00	0.00
ATOM	7516	O	TYR	506	54.384	64.330	104.325	0.00	0.00
ATOM	7517	N	THR	507	55.642	66.011	103.677	0.00	0.00
ATOM	7518	H	THR	507	55.765	66.876	103.170	0.00	0.00
ATOM	7519	CA	THR	507	56.838	65.366	104.145	0.00	0.00
ATOM	7520	HA	THR	507	56.614	64.382	104.557	0.00	0.00
ATOM	7521	CB	THR	507	57.818	65.044	102.954	0.00	0.00
ATOM	7522	HB	THR	507	58.497	64.324	103.410	0.00	0.00
ATOM	7523	CG2	THR	507	57.070	64.270	101.883	0.00	0.00
ATOM	7524	1HG2	THR	507	57.763	63.988	101.090	0.00	0.00
ATOM	7525	2HG2	THR	507	56.663	63.435	102.454	0.00	0.00
ATOM	7526	3HG2	THR	507	56.226	64.876	101.555	0.00	0.00
ATOM	7527	OG1	THR	507	58.604	66.115	102.597	0.00	0.00
ATOM	7528	HG1	THR	507	59.105	65.704	101.888	0.00	0.00
ATOM	7529	C	THR	507	57.549	66.118	105.293	0.00	0.00
ATOM	7530	O	THR	507	57.351	67.333	105.473	0.00	0.00
ATOM	7531	N	LEU	508	58.402	65.436	106.021	0.00	0.00
ATOM	7532	H	LEU	508	58.579	64.487	105.723	0.00	0.00
ATOM	7533	CA	LEU	508	59.246	66.038	107.054	0.00	0.00
ATOM	7534	HA	LEU	508	58.557	66.715	107.559	0.00	0.00
ATOM	7535	CB	LEU	508	59.794	64.940	108.018	0.00	0.00
ATOM	7536	HB2	LEU	508	60.128	64.188	107.304	0.00	0.00
ATOM	7537	HB3	LEU	508	60.619	65.391	108.569	0.00	0.00
ATOM	7538	CG	LEU	508	58.822	64.416	109.092	0.00	0.00
ATOM	7539	HG	LEU	508	59.384	63.944	109.898	0.00	0.00

ATOM	7540	CD1	LEU	508	58.116	65.465	109.861	0.00	0.00
ATOM	7541	1HD1	LEU	508	57.467	64.969	110.583	0.00	0.00
ATOM	7542	2HD1	LEU	508	58.800	66.081	110.445	0.00	0.00
ATOM	7543	3HD1	LEU	508	57.422	66.050	109.259	0.00	0.00
ATOM	7544	CD2	LEU	508	57.903	63.403	108.444	0.00	0.00
ATOM	7545	1HD2	LEU	508	58.562	62.662	107.992	0.00	0.00
ATOM	7546	2HD2	LEU	508	57.273	62.881	109.164	0.00	0.00
ATOM	7547	3HD2	LEU	508	57.388	63.812	107.575	0.00	0.00
ATOM	7548	C	LEU	508	60.281	67.012	106.517	0.00	0.00
ATOM	7549	O	LEU	508	60.921	67.684	107.333	0.00	0.00
ATOM	7550	N	ASN	509	60.361	67.210	105.177	0.00	0.00
ATOM	7551	H	ASN	509	60.016	66.513	104.532	0.00	0.00
ATOM	7552	CA	ASN	509	61.145	68.380	104.569	0.00	0.00
ATOM	7553	HA	ASN	509	61.707	68.813	105.396	0.00	0.00
ATOM	7554	CB	ASN	509	62.082	67.889	103.432	0.00	0.00
ATOM	7555	HB2	ASN	509	61.580	67.397	102.598	0.00	0.00
ATOM	7556	HB3	ASN	509	62.472	68.822	103.026	0.00	0.00
ATOM	7557	CG	ASN	509	63.208	66.928	103.814	0.00	0.00
ATOM	7558	OD1	ASN	509	63.832	67.034	104.819	0.00	0.00
ATOM	7559	ND2	ASN	509	63.430	65.982	102.952	0.00	0.00
ATOM	7560	1HD2	ASN	509	64.202	65.368	103.169	0.00	0.00
ATOM	7561	2HD2	ASN	509	62.897	65.722	102.135	0.00	0.00
ATOM	7562	C	ASN	509	60.143	69.426	103.954	0.00	0.00
ATOM	7563	O	ASN	509	60.496	70.591	103.871	0.00	0.00
ATOM	7564	N	THR	510	58.970	68.979	103.507	0.00	0.00
ATOM	7565	H	THR	510	58.618	68.091	103.836	0.00	0.00

ATOM	7566	CA	THR	510	57.873	69.872	102.927	0.00	0.00
ATOM	7567	HA	THR	510	58.193	70.317	101.985	0.00	0.00
ATOM	7568	CB	THR	510	56.540	69.118	102.636	0.00	0.00
ATOM	7569	HB	THR	510	56.361	68.502	103.517	0.00	0.00
ATOM	7570	CG2	THR	510	55.366	69.950	102.235	0.00	0.00
ATOM	7571	1HG2	THR	510	54.501	69.380	101.897	0.00	0.00
ATOM	7572	2HG2	THR	510	54.930	70.569	103.020	0.00	0.00
ATOM	7573	3HG2	THR	510	55.624	70.617	101.413	0.00	0.00
ATOM	7574	OG1	THR	510	56.674	68.206	101.612	0.00	0.00
ATOM	7575	HG1	THR	510	55.805	68.078	101.226	0.00	0.00
ATOM	7576	C	THR	510	57.546	71.028	103.951	0.00	0.00
ATOM	7577	O	THR	510	57.578	72.177	103.543	0.00	0.00
ATOM	7578	N	ILE	511	57.374	70.741	105.196	0.00	0.00
ATOM	7579	H	ILE	511	57.389	69.770	105.472	0.00	0.00
ATOM	7580	CA	ILE	511	57.002	71.748	106.156	0.00	0.00
ATOM	7581	HA	ILE	511	56.247	72.320	105.617	0.00	0.00
ATOM	7582	CB	ILE	511	56.364	71.088	107.409	0.00	0.00
ATOM	7583	HB	ILE	511	56.021	71.874	108.082	0.00	0.00
ATOM	7584	CG2	ILE	511	55.035	70.313	107.104	0.00	0.00
ATOM	7585	1HG2	ILE	511	54.368	70.132	107.947	0.00	0.00
ATOM	7586	2HG2	ILE	511	54.356	70.917	106.503	0.00	0.00
ATOM	7587	3HG2	ILE	511	55.302	69.395	106.581	0.00	0.00
ATOM	7588	CG1	ILE	511	57.269	70.129	108.093	0.00	0.00
ATOM	7589	2HG1	ILE	511	57.454	69.370	107.333	0.00	0.00
ATOM	7590	3HG1	ILE	511	58.203	70.632	108.343	0.00	0.00
ATOM	7591	CD1	ILE	511	56.665	69.379	109.327	0.00	0.00

ATOM	7592	1HD1	ILE	511	55.717	68.910	109.063	0.00	0.00
ATOM	7593	2HD1	ILE	511	57.396	68.581	109.456	0.00	0.00
ATOM	7594	3HD1	ILE	511	56.479	70.017	110.191	0.00	0.00
ATOM	7595	C	ILE	511	58.122	72.694	106.474	0.00	0.00
ATOM	7596	O	ILE	511	57.773	73.818	106.868	0.00	0.00
ATOM	7597	N	ASP	512	59.395	72.426	106.117	0.00	0.00
ATOM	7598	H	ASP	512	59.660	71.720	105.445	0.00	0.00
ATOM	7599	CA	ASP	512	60.493	73.438	106.449	0.00	0.00
ATOM	7600	HA	ASP	512	60.101	74.112	107.210	0.00	0.00
ATOM	7601	CB	ASP	512	61.748	72.800	107.177	0.00	0.00
ATOM	7602	HB2	ASP	512	62.017	72.015	106.471	0.00	0.00
ATOM	7603	HB3	ASP	512	62.556	73.532	107.157	0.00	0.00
ATOM	7604	CG	ASP	512	61.394	72.400	108.557	0.00	0.00
ATOM	7605	OD1	ASP	512	61.555	71.174	108.893	0.00	0.00
ATOM	7606	OD2	ASP	512	61.111	73.280	109.378	0.00	0.00
ATOM	7607	C	ASP	512	60.808	74.206	105.158	0.00	0.00
ATOM	7608	O	ASP	512	60.939	75.385	105.283	0.00	0.00
ATOM	7609	N	GLU	513	60.852	73.608	103.940	0.00	0.00
ATOM	7610	H	GLU	513	60.545	72.658	103.787	0.00	0.00
ATOM	7611	CA	GLU	513	61.330	74.346	102.725	0.00	0.00
ATOM	7612	HA	GLU	513	62.301	74.773	102.975	0.00	0.00
ATOM	7613	CB	GLU	513	61.696	73.413	101.573	0.00	0.00
ATOM	7614	HB2	GLU	513	62.281	73.972	100.842	0.00	0.00
ATOM	7615	HB3	GLU	513	62.299	72.614	102.005	0.00	0.00
ATOM	7616	CG	GLU	513	60.496	72.825	100.870	0.00	0.00
ATOM	7617	HG2	GLU	513	59.785	72.323	101.527	0.00	0.00



ATOM	7618	HG3	GLU	513	60.035	73.682	100.378	0.00	0.00
ATOM	7619	CD	GLU	513	60.849	71.912	99.652	0.00	0.00
ATOM	7620	OE1	GLU	513	62.015	71.859	99.055	0.00	0.00
ATOM	7621	OE2	GLU	513	59.881	71.314	99.102	0.00	0.00
ATOM	7622	C	GLU	513	60.483	75.522	102.227	0.00	0.00
ATOM	7623	O	GLU	513	60.948	76.225	101.316	0.00	0.00
ATOM	7624	N	HID	514	59.254	75.752	102.734	0.00	0.00
ATOM	7625	H	HID	514	58.965	75.205	103.533	0.00	0.00
ATOM	7626	CA	HID	514	58.474	76.841	102.264	0.00	0.00
ATOM	7627	HA	HID	514	58.458	76.750	101.178	0.00	0.00
ATOM	7628	CB	HID	514	57.025	76.734	102.765	0.00	0.00
ATOM	7629	HB2	HID	514	56.941	76.459	103.816	0.00	0.00
ATOM	7630	HB3	HID	514	56.495	77.686	102.771	0.00	0.00
ATOM	7631	CG	HID	514	56.311	75.792	102.000	0.00	0.00
ATOM	7632	ND1	HID	514	56.541	74.450	101.996	0.00	0.00
ATOM	7633	HD1	HID	514	57.301	73.941	102.424	0.00	0.00
ATOM	7634	CE1	HID	514	55.574	73.839	101.266	0.00	0.00
ATOM	7635	HE1	HID	514	55.463	72.764	101.268	0.00	0.00
ATOM	7636	NE2	HID	514	54.777	74.755	100.675	0.00	0.00
ATOM	7637	CD2	HID	514	55.246	75.988	101.114	0.00	0.00
ATOM	7638	HD2	HID	514	54.984	77.019	100.927	0.00	0.00
ATOM	7639	C	HID	514	59.117	78.175	102.612	0.00	0.00
ATOM	7640	O	HID	514	59.028	79.037	101.728	0.00	0.00
ATOM	7641	N	LEU	515	59.715	78.404	103.792	0.00	0.00
ATOM	7642	H	LEU	515	59.754	77.752	104.562	0.00	0.00
ATOM	7643	CA	LEU	515	60.443	79.696	103.983	0.00	0.00

ATOM	7644	HA	LEU	515	59.686	80.463	103.818	0.00	0.00
ATOM	7645	CB	LEU	515	60.887	79.935	105.447	0.00	0.00
ATOM	7646	HB2	LEU	515	60.037	79.671	106.077	0.00	0.00
ATOM	7647	HB3	LEU	515	61.800	79.411	105.732	0.00	0.00
ATOM	7648	CG	LEU	515	61.255	81.441	105.766	0.00	0.00
ATOM	7649	HG	LEU	515	62.188	81.753	105.298	0.00	0.00
ATOM	7650	CD1	LEU	515	60.202	82.434	105.220	0.00	0.00
ATOM	7651	1HD1	LEU	515	60.145	82.550	104.138	0.00	0.00
ATOM	7652	2HD1	LEU	515	59.275	82.000	105.596	0.00	0.00
ATOM	7653	3HD1	LEU	515	60.399	83.413	105.657	0.00	0.00
ATOM	7654	CD2	LEU	515	61.464	81.699	107.307	0.00	0.00
ATOM	7655	1HD2	LEU	515	60.521	81.579	107.841	0.00	0.00
ATOM	7656	2HD2	LEU	515	62.268	81.118	107.758	0.00	0.00
ATOM	7657	3HD2	LEU	515	61.716	82.758	107.364	0.00	0.00
ATOM	7658	C	LEU	515	61.553	79.898	102.857	0.00	0.00
ATOM	7659	O	LEU	515	61.637	80.993	102.326	0.00	0.00
ATOM	7660	N	ASP	516	62.246	78.834	102.501	0.00	0.00
ATOM	7661	H	ASP	516	62.061	77.966	102.984	0.00	0.00
ATOM	7662	CA	ASP	516	63.250	78.840	101.418	0.00	0.00
ATOM	7663	HA	ASP	516	63.925	79.674	101.614	0.00	0.00
ATOM	7664	CB	ASP	516	64.127	77.631	101.483	0.00	0.00
ATOM	7665	HB2	ASP	516	63.570	76.695	101.528	0.00	0.00
ATOM	7666	HB3	ASP	516	64.914	77.591	100.730	0.00	0.00
ATOM	7667	CG	ASP	516	64.909	77.613	102.849	0.00	0.00
ATOM	7668	OD1	ASP	516	64.677	76.805	103.771	0.00	0.00
ATOM	7669	OD2	ASP	516	65.701	78.504	103.038	0.00	0.00

ATOM	7670	C	ASP	516	62.639	79.122	100.003	0.00	0.00
ATOM	7671	O	ASP	516	63.380	79.555	99.108	0.00	0.00
ATOM	7672	N	MET	517	61.304	79.049	99.837	0.00	0.00
ATOM	7673	H	MET	517	60.725	78.861	100.642	0.00	0.00
ATOM	7674	CA	MET	517	60.560	79.411	98.581	0.00	0.00
ATOM	7675	HA	MET	517	61.231	79.570	97.737	0.00	0.00
ATOM	7676	CB	MET	517	59.515	78.371	98.149	0.00	0.00
ATOM	7677	HB2	MET	517	58.735	78.293	98.907	0.00	0.00
ATOM	7678	HB3	MET	517	59.021	78.671	97.225	0.00	0.00
ATOM	7679	CG	MET	517	60.296	77.011	97.875	0.00	0.00
ATOM	7680	HG2	MET	517	61.089	77.173	97.145	0.00	0.00
ATOM	7681	HG3	MET	517	60.823	76.867	98.818	0.00	0.00
ATOM	7682	SD	MET	517	59.207	75.591	97.521	0.00	0.00
ATOM	7683	CE	MET	517	60.581	74.330	97.383	0.00	0.00
ATOM	7684	HE1	MET	517	61.359	74.728	96.730	0.00	0.00
ATOM	7685	HE2	MET	517	61.005	74.205	98.379	0.00	0.00
ATOM	7686	HE3	MET	517	60.068	73.463	96.965	0.00	0.00
ATOM	7687	C	MET	517	59.793	80.777	98.747	0.00	0.00
ATOM	7688	O	MET	517	59.782	81.544	97.803	0.00	0.00
ATOM	7689	N	LEU	518	59.234	81.124	99.917	0.00	0.00
ATOM	7690	H	LEU	518	59.204	80.441	100.660	0.00	0.00
ATOM	7691	CA	LEU	518	58.445	82.378	100.171	0.00	0.00
ATOM	7692	HA	LEU	518	57.691	82.480	99.390	0.00	0.00
ATOM	7693	CB	LEU	518	57.781	82.358	101.536	0.00	0.00
ATOM	7694	HB2	LEU	518	57.432	83.375	101.717	0.00	0.00
ATOM	7695	HB3	LEU	518	58.545	82.036	102.244	0.00	0.00

ATOM	7696	CG	LEU	518	56.584	81.403	101.555	0.00	0.00
ATOM	7697	HG	LEU	518	56.903	80.408	101.243	0.00	0.00
ATOM	7698	CD1	LEU	518	56.281	81.180	103.025	0.00	0.00
ATOM	7699	1HD1	LEU	518	56.162	82.100	103.598	0.00	0.00
ATOM	7700	2HD1	LEU	518	55.425	80.516	103.140	0.00	0.00
ATOM	7701	3HD1	LEU	518	57.114	80.598	103.418	0.00	0.00
ATOM	7702	CD2	LEU	518	55.432	81.893	100.733	0.00	0.00
ATOM	7703	1HD2	LEU	518	55.719	82.131	99.709	0.00	0.00
ATOM	7704	2HD2	LEU	518	54.664	81.125	100.638	0.00	0.00
ATOM	7705	3HD2	LEU	518	55.031	82.814	101.155	0.00	0.00
ATOM	7706	C	LEU	518	59.481	83.551	100.236	0.00	0.00
ATOM	7707	O	LEU	518	59.155	84.601	99.691	0.00	0.00
ATOM	7708	N	MET	519	60.686	83.416	100.815	0.00	0.00
ATOM	7709	H	MET	519	60.972	82.514	101.166	0.00	0.00
ATOM	7710	CA	MET	519	61.598	84.514	101.039	0.00	0.00
ATOM	7711	HA	MET	519	61.051	85.392	101.384	0.00	0.00
ATOM	7712	CB	MET	519	62.672	84.150	102.105	0.00	0.00
ATOM	7713	HB2	MET	519	63.083	85.031	102.600	0.00	0.00
ATOM	7714	HB3	MET	519	62.105	83.611	102.863	0.00	0.00
ATOM	7715	CG	MET	519	63.775	83.266	101.586	0.00	0.00
ATOM	7716	HG2	MET	519	63.362	82.322	101.229	0.00	0.00
ATOM	7717	HG3	MET	519	64.258	83.715	100.718	0.00	0.00
ATOM	7718	SD	MET	519	64.980	82.870	102.904	0.00	0.00
ATOM	7719	CE	MET	519	66.372	82.232	101.852	0.00	0.00
ATOM	7720	HE1	MET	519	67.355	82.153	102.317	0.00	0.00
ATOM	7721	HE2	MET	519	66.131	81.308	101.327	0.00	0.00

ATOM	7722	HE3	MET	519	66.543	82.956	101.056	0.00	0.00
ATOM	7723	C	MET	519	62.190	84.958	99.671	0.00	0.00
ATOM	7724	O	MET	519	62.437	86.130	99.438	0.00	0.00
ATOM	7725	N	VAL	520	62.246	84.046	98.729	0.00	0.00
ATOM	7726	H	VAL	520	62.209	83.088	99.047	0.00	0.00
ATOM	7727	CA	VAL	520	62.724	84.274	97.348	0.00	0.00
ATOM	7728	HA	VAL	520	63.498	85.041	97.322	0.00	0.00
ATOM	7729	CB	VAL	520	63.431	83.025	96.741	0.00	0.00
ATOM	7730	HB	VAL	520	62.649	82.270	96.660	0.00	0.00
ATOM	7731	CG1	VAL	520	63.709	83.304	95.294	0.00	0.00
ATOM	7732	1HG1	VAL	520	62.738	83.282	94.799	0.00	0.00
ATOM	7733	2HG1	VAL	520	64.081	84.319	95.157	0.00	0.00
ATOM	7734	3HG1	VAL	520	64.330	82.516	94.868	0.00	0.00
ATOM	7735	CG2	VAL	520	64.678	82.646	97.462	0.00	0.00
ATOM	7736	1HG2	VAL	520	65.488	83.169	96.954	0.00	0.00
ATOM	7737	2HG2	VAL	520	64.542	83.046	98.467	0.00	0.00
ATOM	7738	3HG2	VAL	520	64.899	81.585	97.351	0.00	0.00
ATOM	7739	C	VAL	520	61.609	84.854	96.501	0.00	0.00
ATOM	7740	O	VAL	520	61.842	85.996	96.030	0.00	0.00
ATOM	7741	N	CYS	521	60.433	84.182	96.321	0.00	0.00
ATOM	7742	H	CYS	521	60.261	83.247	96.664	0.00	0.00
ATOM	7743	CA	CYS	521	59.341	84.602	95.406	0.00	0.00
ATOM	7744	HA	CYS	521	59.751	84.920	94.447	0.00	0.00
ATOM	7745	CB	CYS	521	58.334	83.515	95.185	0.00	0.00
ATOM	7746	HB2	CYS	521	57.605	83.831	94.440	0.00	0.00
ATOM	7747	HB3	CYS	521	58.833	82.629	94.792	0.00	0.00

ATOM	7748	SG	CYS	521	57.422	83.224	96.684	0.00	0.00
ATOM	7749	HG	CYS	521	58.368	82.382	97.109	0.00	0.00
ATOM	7750	C	CYS	521	58.660	85.925	95.803	0.00	0.00
ATOM	7751	O	CYS	521	58.003	86.584	94.944	0.00	0.00
ATOM	7752	N	HID	522	58.773	86.400	97.057	0.00	0.00
ATOM	7753	H	HID	522	59.249	85.827	97.738	0.00	0.00
ATOM	7754	CA	HID	522	58.177	87.692	97.497	0.00	0.00
ATOM	7755	HA	HID	522	57.636	88.139	96.663	0.00	0.00
ATOM	7756	CB	HID	522	57.145	87.331	98.600	0.00	0.00
ATOM	7757	HB2	HID	522	57.581	86.665	99.345	0.00	0.00
ATOM	7758	HB3	HID	522	56.763	88.199	99.138	0.00	0.00
ATOM	7759	CG	HID	522	55.866	86.645	98.102	0.00	0.00
ATOM	7760	ND1	HID	522	54.998	87.190	97.241	0.00	0.00
ATOM	7761	HD1	HID	522	55.007	88.127	96.863	0.00	0.00
ATOM	7762	CE1	HID	522	54.069	86.194	96.967	0.00	0.00
ATOM	7763	HE1	HID	522	53.309	86.225	96.201	0.00	0.00
ATOM	7764	NE2	HID	522	54.416	85.066	97.624	0.00	0.00
ATOM	7765	CD2	HID	522	55.554	85.343	98.379	0.00	0.00
ATOM	7766	HD2	HID	522	56.093	84.571	98.908	0.00	0.00
ATOM	7767	C	HID	522	59.199	88.756	97.983	0.00	0.00
ATOM	7768	O	HID	522	58.786	89.780	98.518	0.00	0.00
ATOM	7769	N	HIE	523	60.471	88.505	97.725	0.00	0.00
ATOM	7770	H	HIE	523	60.760	87.668	97.239	0.00	0.00
ATOM	7771	CA	HIE	523	61.616	89.477	98.064	0.00	0.00
ATOM	7772	HA	HIE	523	62.522	88.884	98.190	0.00	0.00
ATOM	7773	CB	HIE	523	61.765	90.514	96.991	0.00	0.00

ATOM	7774	HB2	HIE	523	62.104	90.059	96.060	0.00	0.00
ATOM	7775	HB3	HIE	523	60.806	90.995	96.800	0.00	0.00
ATOM	7776	CG	HIE	523	62.953	91.468	97.092	0.00	0.00
ATOM	7777	ND1	HIE	523	64.289	91.143	97.229	0.00	0.00
ATOM	7778	CE1	HIE	523	64.962	92.237	97.161	0.00	0.00
ATOM	7779	HE1	HIE	523	66.005	92.248	97.443	0.00	0.00
ATOM	7780	NE2	HIE	523	64.167	93.327	96.932	0.00	0.00
ATOM	7781	HE2	HIE	523	64.435	94.294	96.818	0.00	0.00
ATOM	7782	CD2	HIE	523	62.876	92.838	96.845	0.00	0.00
ATOM	7783	HD2	HIE	523	62.052	93.441	96.492	0.00	0.00
ATOM	7784	C	HIE	523	61.543	90.077	99.489	0.00	0.00
ATOM	7785	O	HIE	523	61.899	91.214	99.781	0.00	0.00
ATOM	7786	N	LEU	524	61.171	89.193	100.431	0.00	0.00
ATOM	7787	H	LEU	524	60.990	88.240	100.150	0.00	0.00
ATOM	7788	CA	LEU	524	60.953	89.512	101.814	0.00	0.00
ATOM	7789	HA	LEU	524	60.357	90.423	101.872	0.00	0.00
ATOM	7790	CB	LEU	524	60.135	88.343	102.368	0.00	0.00
ATOM	7791	HB2	LEU	524	60.725	87.428	102.398	0.00	0.00
ATOM	7792	HB3	LEU	524	59.968	88.635	103.404	0.00	0.00
ATOM	7793	CG	LEU	524	58.750	88.000	101.718	0.00	0.00
ATOM	7794	HG	LEU	524	58.806	87.828	100.643	0.00	0.00
ATOM	7795	CD1	LEU	524	58.212	86.781	102.450	0.00	0.00
ATOM	7796	1HD1	LEU	524	57.370	86.306	101.947	0.00	0.00
ATOM	7797	2HD1	LEU	524	59.020	86.050	102.454	0.00	0.00
ATOM	7798	3HD1	LEU	524	57.950	87.064	103.470	0.00	0.00
ATOM	7799	CD2	LEU	524	57.698	88.983	101.916	0.00	0.00

ATOM	7800	1HD2	LEU	524	57.965	89.900	101.391	0.00	0.00
ATOM	7801	2HD2	LEU	524	56.681	88.667	101.681	0.00	0.00
ATOM	7802	3HD2	LEU	524	57.704	89.301	102.958	0.00	0.00
ATOM	7803	C	LEU	524	62.242	89.886	102.468	0.00	0.00
ATOM	7804	O	LEU	524	63.267	89.190	102.276	0.00	0.00
ATOM	7805	N	ASP	525	62.181	90.880	103.352	0.00	0.00
ATOM	7806	H	ASP	525	61.344	91.445	103.328	0.00	0.00
ATOM	7807	CA	ASP	525	63.213	91.104	104.345	0.00	0.00
ATOM	7808	HA	ASP	525	64.182	91.058	103.849	0.00	0.00
ATOM	7809	CB	ASP	525	63.006	92.555	104.794	0.00	0.00
ATOM	7810	HB2	ASP	525	62.073	92.625	105.353	0.00	0.00
ATOM	7811	HB3	ASP	525	62.953	93.272	103.975	0.00	0.00
ATOM	7812	CG	ASP	525	64.128	93.129	105.739	0.00	0.00
ATOM	7813	OD1	ASP	525	65.035	93.879	105.260	0.00	0.00
ATOM	7814	OD2	ASP	525	64.025	92.866	106.893	0.00	0.00
ATOM	7815	C	ASP	525	63.217	90.181	105.561	0.00	0.00
ATOM	7816	O	ASP	525	62.088	89.752	105.964	0.00	0.00
ATOM	7817	N	PRO	526	64.337	89.899	106.267	0.00	0.00
ATOM	7818	CD	PRO	526	65.740	90.072	105.860	0.00	0.00
ATOM	7819	HD2	PRO	526	65.847	89.700	104.841	0.00	0.00
ATOM	7820	HD3	PRO	526	65.989	91.133	105.879	0.00	0.00
ATOM	7821	CG	PRO	526	66.633	89.256	106.739	0.00	0.00
ATOM	7822	HG2	PRO	526	67.551	88.960	106.232	0.00	0.00
ATOM	7823	HG3	PRO	526	66.826	89.886	107.607	0.00	0.00
ATOM	7824	CB	PRO	526	65.685	88.121	107.175	0.00	0.00
ATOM	7825	HB2	PRO	526	65.527	87.489	106.302	0.00	0.00



ATOM	7826	HB3	PRO	526	66.040	87.572	108.047	0.00	0.00
ATOM	7827	CA	PRO	526	64.325	88.913	107.343	0.00	0.00
ATOM	7828	HA	PRO	526	63.509	88.221	107.135	0.00	0.00
ATOM	7829	C	PRO	526	64.217	89.503	108.779	0.00	0.00
ATOM	7830	O	PRO	526	64.369	88.744	109.755	0.00	0.00
ATOM	7831	N	ASP	527	64.041	90.808	108.861	0.00	0.00
ATOM	7832	H	ASP	527	63.629	91.312	108.088	0.00	0.00
ATOM	7833	CA	ASP	527	64.042	91.593	110.174	0.00	0.00
ATOM	7834	HA	ASP	527	63.749	90.817	110.881	0.00	0.00
ATOM	7835	CB	ASP	527	65.468	92.050	110.444	0.00	0.00
ATOM	7836	HB2	ASP	527	65.497	92.468	111.450	0.00	0.00
ATOM	7837	HB3	ASP	527	66.052	91.145	110.605	0.00	0.00
ATOM	7838	CG	ASP	527	66.037	93.058	109.481	0.00	0.00
ATOM	7839	OD1	ASP	527	65.589	94.268	109.535	0.00	0.00
ATOM	7840	OD2	ASP	527	66.906	92.758	108.619	0.00	0.00
ATOM	7841	C	ASP	527	63.046	92.748	110.354	0.00	0.00
ATOM	7842	O	ASP	527	62.663	93.097	111.428	0.00	0.00
ATOM	7843	N	ILE	528	62.553	93.278	109.291	0.00	0.00
ATOM	7844	H	ILE	528	62.990	93.002	108.423	0.00	0.00
ATOM	7845	CA	ILE	528	61.392	94.180	109.196	0.00	0.00
ATOM	7846	HA	ILE	528	61.563	95.042	109.841	0.00	0.00
ATOM	7847	CB	ILE	528	61.335	94.800	107.751	0.00	0.00
ATOM	7848	HB	ILE	528	61.517	94.071	106.961	0.00	0.00
ATOM	7849	CG2	ILE	528	59.958	95.459	107.581	0.00	0.00
ATOM	7850	1HG2	ILE	528	59.839	96.169	106.763	0.00	0.00
ATOM	7851	2HG2	ILE	528	59.184	94.695	107.495	0.00	0.00

ATOM	7852	3HG2	ILE	528	59.648	95.869	108.542	0.00	0.00
ATOM	7853	CG1	ILE	528	62.552	95.873	107.648	0.00	0.00
ATOM	7854	2HG1	ILE	528	62.604	96.476	108.554	0.00	0.00
ATOM	7855	3HG1	ILE	528	63.523	95.409	107.476	0.00	0.00
ATOM	7856	CD1	ILE	528	62.317	96.897	106.485	0.00	0.00
ATOM	7857	1HD1	ILE	528	63.228	97.495	106.448	0.00	0.00
ATOM	7858	2HD1	ILE	528	62.166	96.422	105.516	0.00	0.00
ATOM	7859	3HD1	ILE	528	61.484	97.584	106.638	0.00	0.00
ATOM	7860	C	ILE	528	60.140	93.372	109.617	0.00	0.00
ATOM	7861	O	ILE	528	59.696	92.468	108.931	0.00	0.00
ATOM	7862	N	ALA	529	59.504	93.858	110.696	0.00	0.00
ATOM	7863	H	ALA	529	59.887	94.622	111.234	0.00	0.00
ATOM	7864	CA	ALA	529	58.462	93.131	111.355	0.00	0.00
ATOM	7865	HA	ALA	529	58.849	92.168	111.689	0.00	0.00
ATOM	7866	CB	ALA	529	58.235	94.043	112.515	0.00	0.00
ATOM	7867	HB1	ALA	529	57.777	94.957	112.137	0.00	0.00
ATOM	7868	HB2	ALA	529	57.532	93.419	113.067	0.00	0.00
ATOM	7869	HB3	ALA	529	59.097	94.272	113.141	0.00	0.00
ATOM	7870	C	ALA	529	57.281	92.734	110.433	0.00	0.00
ATOM	7871	O	ALA	529	56.759	91.605	110.574	0.00	0.00
ATOM	7872	N	GLU	530	56.772	93.585	109.528	0.00	0.00
ATOM	7873	H	GLU	530	57.027	94.560	109.455	0.00	0.00
ATOM	7874	CA	GLU	530	55.596	93.206	108.759	0.00	0.00
ATOM	7875	HA	GLU	530	54.836	92.659	109.317	0.00	0.00
ATOM	7876	CB	GLU	530	54.881	94.522	108.375	0.00	0.00
ATOM	7877	HB2	GLU	530	55.458	95.175	107.720	0.00	0.00

ATOM	7878	HB3	GLU	530	54.033	94.264	107.741	0.00	0.00
ATOM	7879	CG	GLU	530	54.239	95.369	109.507	0.00	0.00
ATOM	7880	HG2	GLU	530	53.416	95.985	109.144	0.00	0.00
ATOM	7881	HG3	GLU	530	53.926	94.713	110.320	0.00	0.00
ATOM	7882	CD	GLU	530	55.328	96.299	110.123	0.00	0.00
ATOM	7883	OE1	GLU	530	56.390	96.399	109.519	0.00	0.00
ATOM	7884	OE2	GLU	530	55.048	96.827	111.180	0.00	0.00
ATOM	7885	C	GLU	530	55.996	92.367	107.539	0.00	0.00
ATOM	7886	O	GLU	530	55.099	91.883	106.809	0.00	0.00
ATOM	7887	N	ASP	531	57.250	92.092	107.326	0.00	0.00
ATOM	7888	H	ASP	531	57.982	92.382	107.958	0.00	0.00
ATOM	7889	CA	ASP	531	57.784	91.105	106.376	0.00	0.00
ATOM	7890	HA	ASP	531	57.011	90.919	105.631	0.00	0.00
ATOM	7891	CB	ASP	531	59.008	91.653	105.618	0.00	0.00
ATOM	7892	HB2	ASP	531	59.571	92.277	106.314	0.00	0.00
ATOM	7893	HB3	ASP	531	59.682	90.870	105.271	0.00	0.00
ATOM	7894	CG	ASP	531	58.689	92.434	104.360	0.00	0.00
ATOM	7895	OD1	ASP	531	59.571	92.603	103.480	0.00	0.00
ATOM	7896	OD2	ASP	531	57.557	93.045	104.216	0.00	0.00
ATOM	7897	C	ASP	531	58.027	89.732	107.035	0.00	0.00
ATOM	7898	O	ASP	531	57.662	88.672	106.575	0.00	0.00
ATOM	7899	N	VAL	532	58.525	89.760	108.239	0.00	0.00
ATOM	7900	H	VAL	532	58.988	90.608	108.532	0.00	0.00
ATOM	7901	CA	VAL	532	58.564	88.591	109.190	0.00	0.00
ATOM	7902	HA	VAL	532	59.130	87.800	108.697	0.00	0.00
ATOM	7903	CB	VAL	532	59.408	89.015	110.396	0.00	0.00

ATOM	7904	HB	VAL	532	59.010	89.891	110.908	0.00	0.00
ATOM	7905	CG1	VAL	532	59.614	87.868	111.402	0.00	0.00
ATOM	7906	1HG1	VAL	532	60.336	88.098	112.186	0.00	0.00
ATOM	7907	2HG1	VAL	532	58.732	87.451	111.886	0.00	0.00
ATOM	7908	3HG1	VAL	532	59.846	86.935	110.889	0.00	0.00
ATOM	7909	CG2	VAL	532	60.857	89.265	109.930	0.00	0.00
ATOM	7910	1HG2	VAL	532	61.469	88.407	109.650	0.00	0.00
ATOM	7911	2HG2	VAL	532	60.827	89.984	109.111	0.00	0.00
ATOM	7912	3HG2	VAL	532	61.250	89.822	110.780	0.00	0.00
ATOM	7913	C	VAL	532	57.125	88.105	109.581	0.00	0.00
ATOM	7914	O	VAL	532	56.979	86.899	109.713	0.00	0.00
ATOM	7915	N	ALA	533	56.136	88.964	109.756	0.00	0.00
ATOM	7916	H	ALA	533	56.321	89.943	109.925	0.00	0.00
ATOM	7917	CA	ALA	533	54.733	88.439	109.877	0.00	0.00
ATOM	7918	HA	ALA	533	54.704	87.641	110.619	0.00	0.00
ATOM	7919	CB	ALA	533	53.844	89.564	110.470	0.00	0.00
ATOM	7920	HB1	ALA	533	53.446	90.060	109.585	0.00	0.00
ATOM	7921	HB2	ALA	533	52.926	89.226	110.951	0.00	0.00
ATOM	7922	HB3	ALA	533	54.444	90.145	111.170	0.00	0.00
ATOM	7923	C	ALA	533	54.071	87.849	108.633	0.00	0.00
ATOM	7924	O	ALA	533	53.398	86.801	108.744	0.00	0.00
ATOM	7925	N	PHE	534	54.316	88.452	107.469	0.00	0.00
ATOM	7926	H	PHE	534	55.014	89.182	107.486	0.00	0.00
ATOM	7927	CA	PHE	534	53.988	87.865	106.181	0.00	0.00
ATOM	7928	HA	PHE	534	52.907	87.750	106.106	0.00	0.00
ATOM	7929	CB	PHE	534	54.394	88.861	105.072	0.00	0.00

ATOM	7930	HB2	PHE	534	54.135	89.857	105.431	0.00	0.00
ATOM	7931	HB3	PHE	534	55.484	88.852	105.073	0.00	0.00
ATOM	7932	CG	PHE	534	53.982	88.577	103.669	0.00	0.00
ATOM	7933	CD1	PHE	534	53.334	89.536	102.903	0.00	0.00
ATOM	7934	HD1	PHE	534	53.179	90.524	103.311	0.00	0.00
ATOM	7935	CE1	PHE	534	53.179	89.375	101.570	0.00	0.00
ATOM	7936	HE1	PHE	534	52.823	90.195	100.964	0.00	0.00
ATOM	7937	CZ	PHE	534	53.610	88.239	100.812	0.00	0.00
ATOM	7938	HZ	PHE	534	53.429	88.093	99.757	0.00	0.00
ATOM	7939	CE2	PHE	534	54.307	87.283	101.528	0.00	0.00
ATOM	7940	HE2	PHE	534	54.601	86.385	101.004	0.00	0.00
ATOM	7941	CD2	PHE	534	54.471	87.437	102.952	0.00	0.00
ATOM	7942	HD2	PHE	534	55.070	86.678	103.433	0.00	0.00
ATOM	7943	C	PHE	534	54.542	86.488	105.974	0.00	0.00
ATOM	7944	O	PHE	534	53.754	85.651	105.551	0.00	0.00
ATOM	7945	N	ALA	535	55.794	86.287	106.281	0.00	0.00
ATOM	7946	H	ALA	535	56.448	87.021	106.511	0.00	0.00
ATOM	7947	CA	ALA	535	56.364	84.983	106.029	0.00	0.00
ATOM	7948	HA	ALA	535	56.211	84.528	105.050	0.00	0.00
ATOM	7949	CB	ALA	535	57.866	85.094	106.131	0.00	0.00
ATOM	7950	HB1	ALA	535	58.121	85.481	107.118	0.00	0.00
ATOM	7951	HB2	ALA	535	58.334	84.118	106.008	0.00	0.00
ATOM	7952	HB3	ALA	535	58.292	85.788	105.406	0.00	0.00
ATOM	7953	C	ALA	535	55.789	83.974	107.045	0.00	0.00
ATOM	7954	O	ALA	535	55.551	82.820	106.652	0.00	0.00
ATOM	7955	N	GLU	536	55.585	84.454	108.281	0.00	0.00

ATOM	7956	H	GLU	536	55.880	85.388	108.527	0.00	0.00
ATOM	7957	CA	GLU	536	55.032	83.653	109.376	0.00	0.00
ATOM	7958	HA	GLU	536	55.622	82.750	109.533	0.00	0.00
ATOM	7959	CB	GLU	536	55.051	84.466	110.702	0.00	0.00
ATOM	7960	HB2	GLU	536	55.935	85.068	110.912	0.00	0.00
ATOM	7961	HB3	GLU	536	54.193	85.138	110.695	0.00	0.00
ATOM	7962	CG	GLU	536	54.927	83.635	111.978	0.00	0.00
ATOM	7963	HG2	GLU	536	54.075	82.964	111.869	0.00	0.00
ATOM	7964	HG3	GLU	536	55.819	83.014	112.063	0.00	0.00
ATOM	7965	CD	GLU	536	54.776	84.532	113.145	0.00	0.00
ATOM	7966	OE1	GLU	536	53.632	84.922	113.436	0.00	0.00
ATOM	7967	OE2	GLU	536	55.758	85.039	113.716	0.00	0.00
ATOM	7968	C	GLU	536	53.542	83.292	109.144	0.00	0.00
ATOM	7969	O	GLU	536	52.986	82.284	109.641	0.00	0.00
ATOM	7970	N	SER	537	52.829	84.147	108.412	0.00	0.00
ATOM	7971	H	SER	537	53.203	85.075	108.273	0.00	0.00
ATOM	7972	CA	SER	537	51.539	83.875	107.893	0.00	0.00
ATOM	7973	HA	SER	537	50.984	83.660	108.806	0.00	0.00
ATOM	7974	CB	SER	537	50.937	85.214	107.323	0.00	0.00
ATOM	7975	HB2	SER	537	51.513	85.514	106.448	0.00	0.00
ATOM	7976	HB3	SER	537	49.910	85.093	106.979	0.00	0.00
ATOM	7977	OG	SER	537	50.905	86.296	108.266	0.00	0.00
ATOM	7978	HG	SER	537	51.801	86.607	108.416	0.00	0.00
ATOM	7979	C	SER	537	51.470	82.776	106.766	0.00	0.00
ATOM	7980	O	SER	537	50.470	82.127	106.620	0.00	0.00
ATOM	7981	N	ARG	538	52.556	82.723	105.926	0.00	0.00

ATOM	7982	H	ARG	538	53.285	83.405	106.084	0.00	0.00
ATOM	7983	CA	ARG	538	52.551	81.933	104.653	0.00	0.00
ATOM	7984	HA	ARG	538	51.565	81.556	104.379	0.00	0.00
ATOM	7985	CB	ARG	538	53.016	82.811	103.511	0.00	0.00
ATOM	7986	HB2	ARG	538	53.265	82.114	102.712	0.00	0.00
ATOM	7987	HB3	ARG	538	53.894	83.414	103.742	0.00	0.00
ATOM	7988	CG	ARG	538	51.933	83.738	102.885	0.00	0.00
ATOM	7989	HG2	ARG	538	51.272	84.104	103.671	0.00	0.00
ATOM	7990	HG3	ARG	538	52.481	84.557	102.418	0.00	0.00
ATOM	7991	CD	ARG	538	50.987	83.039	101.852	0.00	0.00
ATOM	7992	HD2	ARG	538	50.476	82.177	102.281	0.00	0.00
ATOM	7993	HD3	ARG	538	50.245	83.733	101.457	0.00	0.00
ATOM	7994	NE	ARG	538	51.703	82.590	100.654	0.00	0.00
ATOM	7995	HE	ARG	538	51.893	81.603	100.551	0.00	0.00
ATOM	7996	CZ	ARG	538	52.309	83.275	99.726	0.00	0.00
ATOM	7997	NH1	ARG	538	52.431	84.588	99.881	0.00	0.00
ATOM	7998	1HH1	ARG	538	52.925	85.170	99.219	0.00	0.00
ATOM	7999	2HH1	ARG	538	51.679	85.067	100.357	0.00	0.00
ATOM	8000	NH2	ARG	538	52.851	82.823	98.618	0.00	0.00
ATOM	8001	1HH2	ARG	538	53.185	83.476	97.924	0.00	0.00
ATOM	8002	2HH2	ARG	538	52.914	81.839	98.399	0.00	0.00
ATOM	8003	C	ARG	538	53.325	80.614	104.786	0.00	0.00
ATOM	8004	O	ARG	538	52.999	79.677	104.077	0.00	0.00
ATOM	8005	N	ILE	539	54.234	80.554	105.786	0.00	0.00
ATOM	8006	H	ILE	539	54.581	81.345	106.308	0.00	0.00
ATOM	8007	CA	ILE	539	54.555	79.224	106.310	0.00	0.00

ATOM	8008	HA	ILE	539	54.629	78.536	105.468	0.00	0.00
ATOM	8009	CB	ILE	539	55.940	79.219	106.969	0.00	0.00
ATOM	8010	HB	ILE	539	56.127	78.171	107.203	0.00	0.00
ATOM	8011	CG2	ILE	539	57.089	79.539	105.987	0.00	0.00
ATOM	8012	1HG2	ILE	539	57.257	80.584	105.725	0.00	0.00
ATOM	8013	2HG2	ILE	539	57.959	78.953	106.282	0.00	0.00
ATOM	8014	3HG2	ILE	539	56.773	79.011	105.087	0.00	0.00
ATOM	8015	CG1	ILE	539	55.965	79.939	108.299	0.00	0.00
ATOM	8016	2HG1	ILE	539	55.454	80.900	108.353	0.00	0.00
ATOM	8017	3HG1	ILE	539	55.444	79.284	108.996	0.00	0.00
ATOM	8018	CD1	ILE	539	57.359	80.188	108.843	0.00	0.00
ATOM	8019	1HD1	ILE	539	57.881	79.254	109.048	0.00	0.00
ATOM	8020	2HD1	ILE	539	57.820	80.758	108.035	0.00	0.00
ATOM	8021	3HD1	ILE	539	57.103	80.794	109.712	0.00	0.00
ATOM	8022	C	ILE	539	53.471	78.708	107.235	0.00	0.00
ATOM	8023	O	ILE	539	52.906	79.380	108.150	0.00	0.00
ATOM	8024	N	ARG	540	53.158	77.416	107.037	0.00	0.00
ATOM	8025	H	ARG	540	53.798	76.876	106.472	0.00	0.00
ATOM	8026	CA	ARG	540	52.338	76.643	108.037	0.00	0.00
ATOM	8027	HA	ARG	540	52.340	77.222	108.961	0.00	0.00
ATOM	8028	CB	ARG	540	50.894	76.469	107.574	0.00	0.00
ATOM	8029	HB2	ARG	540	50.977	76.101	106.551	0.00	0.00
ATOM	8030	HB3	ARG	540	50.363	75.735	108.180	0.00	0.00
ATOM	8031	CG	ARG	540	50.123	77.851	107.382	0.00	0.00
ATOM	8032	HG2	ARG	540	49.094	77.618	107.653	0.00	0.00
ATOM	8033	HG3	ARG	540	50.578	78.615	108.013	0.00	0.00



ATOM	8034	CD	ARG	540	50.182	78.244	105.879	0.00	0.00
ATOM	8035	HD2	ARG	540	51.204	78.400	105.533	0.00	0.00
ATOM	8036	HD3	ARG	540	49.741	77.460	105.264	0.00	0.00
ATOM	8037	NE	ARG	540	49.443	79.536	105.696	0.00	0.00
ATOM	8038	HE	ARG	540	49.806	80.299	106.249	0.00	0.00
ATOM	8039	CZ	ARG	540	48.195	79.683	105.242	0.00	0.00
ATOM	8040	NH1	ARG	540	47.491	78.744	104.662	0.00	0.00
ATOM	8041	1HH1	ARG	540	46.553	79.018	104.407	0.00	0.00
ATOM	8042	2HH1	ARG	540	47.823	77.831	104.387	0.00	0.00
ATOM	8043	NH2	ARG	540	47.700	80.870	105.417	0.00	0.00
ATOM	8044	1HH2	ARG	540	46.921	81.184	104.857	0.00	0.00
ATOM	8045	2HH2	ARG	540	48.255	81.598	105.843	0.00	0.00
ATOM	8046	C	ARG	540	52.939	75.254	108.194	0.00	0.00
ATOM	8047	O	ARG	540	53.458	74.718	107.207	0.00	0.00
ATOM	8048	N	ARG	541	52.664	74.600	109.355	0.00	0.00
ATOM	8049	H	ARG	541	52.172	75.058	110.109	0.00	0.00
ATOM	8050	CA	ARG	541	53.153	73.200	109.477	0.00	0.00
ATOM	8051	HA	ARG	541	53.786	72.916	108.636	0.00	0.00
ATOM	8052	CB	ARG	541	53.985	72.970	110.741	0.00	0.00
ATOM	8053	HB2	ARG	541	53.414	72.977	111.670	0.00	0.00
ATOM	8054	HB3	ARG	541	54.231	71.921	110.576	0.00	0.00
ATOM	8055	CG	ARG	541	55.342	73.782	110.741	0.00	0.00
ATOM	8056	HG2	ARG	541	55.909	73.601	109.828	0.00	0.00
ATOM	8057	HG3	ARG	541	55.061	74.835	110.718	0.00	0.00
ATOM	8058	CD	ARG	541	56.109	73.507	112.042	0.00	0.00
ATOM	8059	HD2	ARG	541	56.602	74.424	112.366	0.00	0.00

ATOM	8060	HD3	ARG	541	55.510	73.148	112.878	0.00	0.00
ATOM	8061	NE	ARG	541	57.192	72.533	111.752	0.00	0.00
ATOM	8062	HE	ARG	541	57.065	71.586	112.079	0.00	0.00
ATOM	8063	CZ	ARG	541	58.335	72.805	111.109	0.00	0.00
ATOM	8064	NH1	ARG	541	58.665	73.894	110.516	0.00	0.00
ATOM	8065	1HH1	ARG	541	59.469	74.024	109.918	0.00	0.00
ATOM	8066	2HH1	ARG	541	58.033	74.681	110.534	0.00	0.00
ATOM	8067	NH2	ARG	541	59.223	71.879	111.118	0.00	0.00
ATOM	8068	1HH2	ARG	541	60.043	71.869	110.528	0.00	0.00
ATOM	8069	2HH2	ARG	541	59.042	71.081	111.710	0.00	0.00
ATOM	8070	C	ARG	541	51.981	72.241	109.398	0.00	0.00
ATOM	8071	O	ARG	541	52.160	71.065	109.038	0.00	0.00
ATOM	8072	N	GLU	542	50.715	72.633	109.729	0.00	0.00
ATOM	8073	H	GLU	542	50.556	73.573	110.063	0.00	0.00
ATOM	8074	CA	GLU	542	49.516	71.696	109.846	0.00	0.00
ATOM	8075	HA	GLU	542	49.857	70.674	109.680	0.00	0.00
ATOM	8076	CB	GLU	542	48.848	71.787	111.238	0.00	0.00
ATOM	8077	HB2	GLU	542	48.738	72.815	111.585	0.00	0.00
ATOM	8078	HB3	GLU	542	47.873	71.303	111.273	0.00	0.00
ATOM	8079	CG	GLU	542	49.728	71.106	112.346	0.00	0.00
ATOM	8080	HG2	GLU	542	49.567	70.033	112.237	0.00	0.00
ATOM	8081	HG3	GLU	542	50.794	71.258	112.178	0.00	0.00
ATOM	8082	CD	GLU	542	49.458	71.547	113.736	0.00	0.00
ATOM	8083	OE1	GLU	542	48.819	70.800	114.524	0.00	0.00
ATOM	8084	OE2	GLU	542	49.815	72.728	114.150	0.00	0.00
ATOM	8085	C	GLU	542	48.445	71.957	108.746	0.00	0.00

ATOM	8086	O	GLU	542	47.903	71.074	108.134	0.00	0.00
ATOM	8087	N	THR	543	48.126	73.202	108.595	0.00	0.00
ATOM	8088	H	THR	543	48.443	73.886	109.267	0.00	0.00
ATOM	8089	CA	THR	543	46.995	73.570	107.633	0.00	0.00
ATOM	8090	HA	THR	543	46.077	73.001	107.783	0.00	0.00
ATOM	8091	CB	THR	543	46.451	74.964	107.681	0.00	0.00
ATOM	8092	HB	THR	543	45.629	75.028	106.968	0.00	0.00
ATOM	8093	CG2	THR	543	45.988	75.320	109.085	0.00	0.00
ATOM	8094	1HG2	THR	543	45.190	74.644	109.389	0.00	0.00
ATOM	8095	2HG2	THR	543	46.857	75.176	109.727	0.00	0.00
ATOM	8096	3HG2	THR	543	45.653	76.355	109.161	0.00	0.00
ATOM	8097	OG1	THR	543	47.461	75.848	107.230	0.00	0.00
ATOM	8098	HG1	THR	543	47.366	75.913	106.277	0.00	0.00
ATOM	8099	C	THR	543	47.488	73.173	106.217	0.00	0.00
ATOM	8100	O	THR	543	46.739	72.567	105.402	0.00	0.00
ATOM	8101	N	ILE	544	48.772	73.250	105.964	0.00	0.00
ATOM	8102	H	ILE	544	49.363	73.765	106.600	0.00	0.00
ATOM	8103	CA	ILE	544	49.531	72.970	104.713	0.00	0.00
ATOM	8104	HA	ILE	544	49.108	73.656	103.979	0.00	0.00
ATOM	8105	CB	ILE	544	51.054	73.284	104.993	0.00	0.00
ATOM	8106	HB	ILE	544	51.114	74.240	105.512	0.00	0.00
ATOM	8107	CG2	ILE	544	51.617	72.192	105.968	0.00	0.00
ATOM	8108	1HG2	ILE	544	51.189	72.296	106.964	0.00	0.00
ATOM	8109	2HG2	ILE	544	51.613	71.171	105.585	0.00	0.00
ATOM	8110	3HG2	ILE	544	52.641	72.400	106.280	0.00	0.00
ATOM	8111	CG1	ILE	544	51.932	73.381	103.736	0.00	0.00

ATOM	8112	2HG1	ILE	544	51.975	72.485	103.115	0.00	0.00
ATOM	8113	3HG1	ILE	544	51.373	73.902	102.958	0.00	0.00
ATOM	8114	CD1	ILE	544	53.313	73.830	104.008	0.00	0.00
ATOM	8115	1HD1	ILE	544	53.661	74.169	103.033	0.00	0.00
ATOM	8116	2HD1	ILE	544	53.468	74.729	104.604	0.00	0.00
ATOM	8117	3HD1	ILE	544	53.902	72.968	104.321	0.00	0.00
ATOM	8118	C	ILE	544	49.382	71.496	104.222	0.00	0.00
ATOM	8119	O	ILE	544	49.800	71.187	103.106	0.00	0.00
ATOM	8120	N	ALA	545	48.644	70.666	104.949	0.00	0.00
ATOM	8121	H	ALA	545	48.044	71.036	105.672	0.00	0.00
ATOM	8122	CA	ALA	545	48.341	69.289	104.556	0.00	0.00
ATOM	8123	HA	ALA	545	49.084	68.918	103.850	0.00	0.00
ATOM	8124	CB	ALA	545	48.373	68.419	105.816	0.00	0.00
ATOM	8125	HB1	ALA	545	48.111	67.364	105.744	0.00	0.00
ATOM	8126	HB2	ALA	545	49.397	68.431	106.190	0.00	0.00
ATOM	8127	HB3	ALA	545	47.740	68.835	106.601	0.00	0.00
ATOM	8128	C	ALA	545	46.986	69.178	103.850	0.00	0.00
ATOM	8129	O	ALA	545	46.569	68.036	103.544	0.00	0.00
ATOM	8130	N	ALA	546	46.372	70.363	103.475	0.00	0.00
ATOM	8131	H	ALA	546	46.738	71.232	103.837	0.00	0.00
ATOM	8132	CA	ALA	546	45.071	70.305	102.786	0.00	0.00
ATOM	8133	HA	ALA	546	44.348	69.769	103.401	0.00	0.00
ATOM	8134	CB	ALA	546	44.468	71.708	102.745	0.00	0.00
ATOM	8135	HB1	ALA	546	44.956	72.366	102.027	0.00	0.00
ATOM	8136	HB2	ALA	546	43.405	71.611	102.524	0.00	0.00
ATOM	8137	HB3	ALA	546	44.476	72.102	103.761	0.00	0.00

ATOM	8138	C	ALA	546	45.037	69.699	101.444	0.00	0.00
ATOM	8139	O	ALA	546	44.213	68.877	101.107	0.00	0.00
ATOM	8140	N	GLU	547	45.981	70.186	100.638	0.00	0.00
ATOM	8141	H	GLU	547	46.730	70.683	101.098	0.00	0.00
ATOM	8142	CA	GLU	547	46.081	69.695	99.244	0.00	0.00
ATOM	8143	HA	GLU	547	45.122	69.773	98.730	0.00	0.00
ATOM	8144	CB	GLU	547	46.951	70.601	98.431	0.00	0.00
ATOM	8145	HB2	GLU	547	47.902	70.244	98.826	0.00	0.00
ATOM	8146	HB3	GLU	547	46.872	70.455	97.354	0.00	0.00
ATOM	8147	CG	GLU	547	46.817	72.153	98.854	0.00	0.00
ATOM	8148	HG2	GLU	547	45.755	72.332	99.024	0.00	0.00
ATOM	8149	HG3	GLU	547	47.359	72.175	99.799	0.00	0.00
ATOM	8150	CD	GLU	547	47.397	73.258	97.878	0.00	0.00
ATOM	8151	OE1	GLU	547	46.687	74.243	97.702	0.00	0.00
ATOM	8152	OE2	GLU	547	48.599	73.196	97.513	0.00	0.00
ATOM	8153	C	GLU	547	46.361	68.192	99.128	0.00	0.00
ATOM	8154	O	GLU	547	45.773	67.495	98.366	0.00	0.00
ATOM	8155	N	ASP	548	47.089	67.668	100.140	0.00	0.00
ATOM	8156	H	ASP	548	47.419	68.334	100.824	0.00	0.00
ATOM	8157	CA	ASP	548	47.582	66.320	100.317	0.00	0.00
ATOM	8158	HA	ASP	548	48.201	66.085	99.451	0.00	0.00
ATOM	8159	CB	ASP	548	48.446	66.332	101.659	0.00	0.00
ATOM	8160	HB2	ASP	548	49.174	67.142	101.618	0.00	0.00
ATOM	8161	HB3	ASP	548	47.913	66.370	102.609	0.00	0.00
ATOM	8162	CG	ASP	548	49.068	65.033	101.969	0.00	0.00
ATOM	8163	OD1	ASP	548	50.157	64.815	101.369	0.00	0.00

ATOM 8164 OD2 ASP 548 48.548 64.254 102.859 0.00 0.00  
ATOM 8165 C ASP 548 46.359 65.304 100.323 0.00 0.00  
ATOM 8166 O ASP 548 46.425 64.196 99.720 0.00 0.00  
ATOM 8167 N VAL 549 45.210 65.672 100.901 0.00 0.00  
ATOM 8168 H VAL 549 45.284 66.641 101.176 0.00 0.00  
ATOM 8169 CA VAL 549 43.931 64.930 101.013 0.00 0.00  
ATOM 8170 HA VAL 549 44.154 63.900 100.735 0.00 0.00  
ATOM 8171 CB VAL 549 43.485 64.841 102.457 0.00 0.00  
ATOM 8172 HB VAL 549 44.235 64.209 102.931 0.00 0.00  
ATOM 8173 CG1 VAL 549 43.379 66.137 103.207 0.00 0.00  
ATOM 8174 1HG1 VAL 549 42.619 66.798 102.789 0.00 0.00  
ATOM 8175 2HG1 VAL 549 43.017 65.975 104.222 0.00 0.00  
ATOM 8176 3HG1 VAL 549 44.342 66.609 103.402 0.00 0.00  
ATOM 8177 CG2 VAL 549 42.251 64.015 102.687 0.00 0.00  
ATOM 8178 1HG2 VAL 549 42.297 63.711 103.733 0.00 0.00  
ATOM 8179 2HG2 VAL 549 41.331 64.561 102.483 0.00 0.00  
ATOM 8180 3HG2 VAL 549 42.391 63.188 101.991 0.00 0.00  
ATOM 8181 C VAL 549 42.878 65.389 99.947 0.00 0.00  
ATOM 8182 O VAL 549 42.183 64.569 99.393 0.00 0.00  
ATOM 8183 N LEU 550 42.724 66.737 99.752 0.00 0.00  
ATOM 8184 H LEU 550 43.338 67.416 100.180 0.00 0.00  
ATOM 8185 CA LEU 550 41.575 67.263 98.969 0.00 0.00  
ATOM 8186 HA LEU 550 40.704 66.688 99.283 0.00 0.00  
ATOM 8187 CB LEU 550 41.346 68.795 99.290 0.00 0.00  
ATOM 8188 HB2 LEU 550 42.230 69.368 99.013 0.00 0.00  
ATOM 8189 HB3 LEU 550 40.478 69.162 98.741 0.00 0.00

ATOM	8190	CG	LEU	550	40.914	69.082	100.753	0.00	0.00
ATOM	8191	HG	LEU	550	41.630	68.683	101.471	0.00	0.00
ATOM	8192	CD1	LEU	550	40.804	70.563	100.989	0.00	0.00
ATOM	8193	1HD1	LEU	550	41.618	71.174	100.599	0.00	0.00
ATOM	8194	2HD1	LEU	550	39.922	70.901	100.445	0.00	0.00
ATOM	8195	3HD1	LEU	550	40.603	70.630	102.058	0.00	0.00
ATOM	8196	CD2	LEU	550	39.525	68.459	101.179	0.00	0.00
ATOM	8197	1HD2	LEU	550	39.191	68.877	102.129	0.00	0.00
ATOM	8198	2HD2	LEU	550	38.776	68.497	100.388	0.00	0.00
ATOM	8199	3HD2	LEU	550	39.666	67.437	101.528	0.00	0.00
ATOM	8200	C	LEU	550	41.685	67.023	97.461	0.00	0.00
ATOM	8201	O	LEU	550	40.670	66.934	96.816	0.00	0.00
ATOM	8202	N	HIE	551	42.894	66.583	96.969	0.00	0.00
ATOM	8203	H	HIE	551	43.677	66.584	97.607	0.00	0.00
ATOM	8204	CA	HIE	551	43.067	65.771	95.728	0.00	0.00
ATOM	8205	HA	HIE	551	42.644	66.416	94.957	0.00	0.00
ATOM	8206	CB	HIE	551	44.515	65.697	95.432	0.00	0.00
ATOM	8207	HB2	HIE	551	45.063	65.513	96.355	0.00	0.00
ATOM	8208	HB3	HIE	551	44.657	64.774	94.869	0.00	0.00
ATOM	8209	CG	HIE	551	44.997	66.863	94.605	0.00	0.00
ATOM	8210	ND1	HIE	551	44.364	67.263	93.434	0.00	0.00
ATOM	8211	CE1	HIE	551	44.988	68.372	93.070	0.00	0.00
ATOM	8212	HE1	HIE	551	44.743	68.868	92.142	0.00	0.00
ATOM	8213	NE2	HIE	551	46.015	68.612	93.897	0.00	0.00
ATOM	8214	HE2	HIE	551	46.759	69.285	93.778	0.00	0.00
ATOM	8215	CD2	HIE	551	45.992	67.722	94.914	0.00	0.00

ATOM	8216	HD2	HIE	551	46.491	67.683	95.871	0.00	0.00
ATOM	8217	C	HIE	551	42.358	64.442	95.806	0.00	0.00
ATOM	8218	O	HIE	551	41.678	64.193	94.782	0.00	0.00
ATOM	8219	N	ASP	552	42.646	63.594	96.753	0.00	0.00
ATOM	8220	H	ASP	552	43.191	63.837	97.569	0.00	0.00
ATOM	8221	CA	ASP	552	42.008	62.292	96.834	0.00	0.00
ATOM	8222	HA	ASP	552	42.274	61.629	96.010	0.00	0.00
ATOM	8223	CB	ASP	552	42.539	61.572	98.110	0.00	0.00
ATOM	8224	HB2	ASP	552	41.949	61.951	98.944	0.00	0.00
ATOM	8225	HB3	ASP	552	43.579	61.888	98.188	0.00	0.00
ATOM	8226	CG	ASP	552	42.627	60.051	97.973	0.00	0.00
ATOM	8227	OD1	ASP	552	43.260	59.625	96.942	0.00	0.00
ATOM	8228	OD2	ASP	552	42.010	59.272	98.764	0.00	0.00
ATOM	8229	C	ASP	552	40.461	62.299	96.908	0.00	0.00
ATOM	8230	O	ASP	552	39.802	61.368	96.407	0.00	0.00
ATOM	8231	N	LEU	553	39.876	63.305	97.620	0.00	0.00
ATOM	8232	H	LEU	553	40.511	63.876	98.159	0.00	0.00
ATOM	8233	CA	LEU	553	38.496	63.571	97.835	0.00	0.00
ATOM	8234	HA	LEU	553	38.015	62.645	98.151	0.00	0.00
ATOM	8235	CB	LEU	553	38.466	64.558	99.038	0.00	0.00
ATOM	8236	HB2	LEU	553	39.194	64.303	99.808	0.00	0.00
ATOM	8237	HB3	LEU	553	38.736	65.526	98.614	0.00	0.00
ATOM	8238	CG	LEU	553	37.192	64.539	99.851	0.00	0.00
ATOM	8239	HG	LEU	553	36.393	64.381	99.127	0.00	0.00
ATOM	8240	CD1	LEU	553	37.194	63.322	100.824	0.00	0.00
ATOM	8241	1HD1	LEU	553	37.923	63.308	101.634	0.00	0.00



ATOM	8242	2HD1	LEU	553	36.233	63.388	101.334	0.00	0.00
ATOM	8243	3HD1	LEU	553	37.218	62.388	100.262	0.00	0.00
ATOM	8244	CD2	LEU	553	36.979	65.827	100.621	0.00	0.00
ATOM	8245	1HD2	LEU	553	36.084	65.833	101.244	0.00	0.00
ATOM	8246	2HD2	LEU	553	37.848	66.029	101.247	0.00	0.00
ATOM	8247	3HD2	LEU	553	36.933	66.642	99.897	0.00	0.00
ATOM	8248	C	LEU	553	37.785	64.088	96.508	0.00	0.00
ATOM	8249	O	LEU	553	36.561	64.037	96.554	0.00	0.00
ATOM	8250	N	GLY	554	38.521	64.481	95.511	0.00	0.00
ATOM	8251	H	GLY	554	39.515	64.597	95.647	0.00	0.00
ATOM	8252	CA	GLY	554	37.880	65.018	94.242	0.00	0.00
ATOM	8253	HA2	GLY	554	38.481	64.869	93.345	0.00	0.00
ATOM	8254	HA3	GLY	554	36.900	64.542	94.211	0.00	0.00
ATOM	8255	C	GLY	554	37.577	66.517	94.348	0.00	0.00
ATOM	8256	O	GLY	554	36.846	67.048	93.476	0.00	0.00
ATOM	8257	N	ALA	555	37.967	67.289	95.390	0.00	0.00
ATOM	8258	H	ALA	555	38.654	66.841	95.980	0.00	0.00
ATOM	8259	CA	ALA	555	37.548	68.599	95.817	0.00	0.00
ATOM	8260	HA	ALA	555	36.535	68.764	95.452	0.00	0.00
ATOM	8261	CB	ALA	555	37.641	68.581	97.347	0.00	0.00
ATOM	8262	HB1	ALA	555	38.515	68.036	97.705	0.00	0.00
ATOM	8263	HB2	ALA	555	37.678	69.575	97.794	0.00	0.00
ATOM	8264	HB3	ALA	555	36.769	68.083	97.770	0.00	0.00
ATOM	8265	C	ALA	555	38.449	69.759	95.249	0.00	0.00
ATOM	8266	O	ALA	555	38.054	70.857	95.186	0.00	0.00
ATOM	8267	N	PHE	556	39.712	69.438	95.023	0.00	0.00

ATOM	8268	H	PHE	556	40.023	68.521	95.309	0.00	0.00
ATOM	8269	CA	PHE	556	40.646	70.159	94.238	0.00	0.00
ATOM	8270	HA	PHE	556	40.317	71.151	93.928	0.00	0.00
ATOM	8271	CB	PHE	556	41.955	70.481	94.943	0.00	0.00
ATOM	8272	HB2	PHE	556	42.231	69.579	95.488	0.00	0.00
ATOM	8273	HB3	PHE	556	42.659	70.808	94.178	0.00	0.00
ATOM	8274	CG	PHE	556	42.118	71.481	96.084	0.00	0.00
ATOM	8275	CD1	PHE	556	43.296	72.234	96.276	0.00	0.00
ATOM	8276	HD1	PHE	556	44.114	72.277	95.572	0.00	0.00
ATOM	8277	CE1	PHE	556	43.276	73.242	97.212	0.00	0.00
ATOM	8278	HE1	PHE	556	44.181	73.827	97.290	0.00	0.00
ATOM	8279	CZ	PHE	556	42.170	73.442	98.037	0.00	0.00
ATOM	8280	HZ	PHE	556	42.250	74.203	98.799	0.00	0.00
ATOM	8281	CE2	PHE	556	41.042	72.598	97.971	0.00	0.00
ATOM	8282	HE2	PHE	556	40.262	72.779	98.695	0.00	0.00
ATOM	8283	CD2	PHE	556	40.979	71.733	96.899	0.00	0.00
ATOM	8284	HD2	PHE	556	40.031	71.221	96.824	0.00	0.00
ATOM	8285	C	PHE	556	40.874	69.434	92.950	0.00	0.00
ATOM	8286	O	PHE	556	41.238	68.279	92.900	0.00	0.00
ATOM	8287	N	SER	557	40.584	70.127	91.840	0.00	0.00
ATOM	8288	H	SER	557	40.529	71.131	91.929	0.00	0.00
ATOM	8289	CA	SER	557	40.112	69.462	90.661	0.00	0.00
ATOM	8290	HA	SER	557	39.626	68.536	90.968	0.00	0.00
ATOM	8291	CB	SER	557	38.975	70.355	89.962	0.00	0.00
ATOM	8292	HB2	SER	557	39.524	71.268	89.731	0.00	0.00
ATOM	8293	HB3	SER	557	38.739	69.939	88.983	0.00	0.00

ATOM	8294	OG	SER	557	37.814	70.477	90.699	0.00	0.00
ATOM	8295	HG	SER	557	37.500	69.582	90.550	0.00	0.00
ATOM	8296	C	SER	557	41.206	69.170	89.621	0.00	0.00
ATOM	8297	O	SER	557	40.876	68.662	88.514	0.00	0.00
ATOM	8298	N	LEU	558	42.447	69.552	89.909	0.00	0.00
ATOM	8299	H	LEU	558	42.475	70.080	90.769	0.00	0.00
ATOM	8300	CA	LEU	558	43.571	69.747	88.950	0.00	0.00
ATOM	8301	HA	LEU	558	43.901	68.779	88.572	0.00	0.00
ATOM	8302	CB	LEU	558	43.262	70.650	87.773	0.00	0.00
ATOM	8303	HB2	LEU	558	44.140	70.657	87.127	0.00	0.00
ATOM	8304	HB3	LEU	558	42.520	70.168	87.137	0.00	0.00
ATOM	8305	CG	LEU	558	42.972	72.113	88.022	0.00	0.00
ATOM	8306	HG	LEU	558	43.845	72.542	88.513	0.00	0.00
ATOM	8307	CD1	LEU	558	42.899	72.876	86.690	0.00	0.00
ATOM	8308	1HD1	LEU	558	42.167	72.408	86.031	0.00	0.00
ATOM	8309	2HD1	LEU	558	42.614	73.912	86.871	0.00	0.00
ATOM	8310	3HD1	LEU	558	43.857	72.845	86.172	0.00	0.00
ATOM	8311	CD2	LEU	558	41.653	72.420	88.718	0.00	0.00
ATOM	8312	1HD2	LEU	558	40.828	71.836	88.308	0.00	0.00
ATOM	8313	2HD2	LEU	558	41.810	72.186	89.771	0.00	0.00
ATOM	8314	3HD2	LEU	558	41.475	73.489	88.828	0.00	0.00
ATOM	8315	C	LEU	558	44.889	70.125	89.673	0.00	0.00
ATOM	8316	O	LEU	558	44.870	70.889	90.656	0.00	0.00
ATOM	8317	N	THR	559	46.017	69.646	89.220	0.00	0.00
ATOM	8318	H	THR	559	45.840	69.049	88.424	0.00	0.00
ATOM	8319	CA	THR	559	47.361	70.094	89.637	0.00	0.00

ATOM	8320	HA	THR	559	47.275	70.253	90.712	0.00	0.00
ATOM	8321	CB	THR	559	48.482	69.034	89.427	0.00	0.00
ATOM	8322	HB	THR	559	49.433	69.565	89.393	0.00	0.00
ATOM	8323	CG2	THR	559	48.492	67.930	90.530	0.00	0.00
ATOM	8324	1HG2	THR	559	49.136	67.102	90.231	0.00	0.00
ATOM	8325	2HG2	THR	559	48.960	68.298	91.442	0.00	0.00
ATOM	8326	3HG2	THR	559	47.501	67.520	90.721	0.00	0.00
ATOM	8327	OG1	THR	559	48.242	68.513	88.128	0.00	0.00
ATOM	8328	HG1	THR	559	48.886	68.879	87.518	0.00	0.00
ATOM	8329	C	THR	559	47.656	71.478	89.008	0.00	0.00
ATOM	8330	O	THR	559	47.056	71.842	87.983	0.00	0.00
ATOM	8331	N	SER	560	48.584	72.241	89.553	0.00	0.00
ATOM	8332	H	SER	560	49.058	71.937	90.392	0.00	0.00
ATOM	8333	CA	SER	560	49.157	73.405	88.941	0.00	0.00
ATOM	8334	HA	SER	560	49.310	73.243	87.874	0.00	0.00
ATOM	8335	CB	SER	560	48.330	74.647	89.200	0.00	0.00
ATOM	8336	HB2	SER	560	48.427	75.251	88.299	0.00	0.00
ATOM	8337	HB3	SER	560	47.308	74.271	89.247	0.00	0.00
ATOM	8338	OG	SER	560	48.678	75.521	90.314	0.00	0.00
ATOM	8339	HG	SER	560	48.786	74.946	91.075	0.00	0.00
ATOM	8340	C	SER	560	50.646	73.601	89.449	0.00	0.00
ATOM	8341	O	SER	560	50.933	73.456	90.577	0.00	0.00
ATOM	8342	N	SER	561	51.606	73.911	88.556	0.00	0.00
ATOM	8343	H	SER	561	51.305	74.100	87.611	0.00	0.00
ATOM	8344	CA	SER	561	53.084	73.658	88.738	0.00	0.00
ATOM	8345	HA	SER	561	53.235	72.738	89.303	0.00	0.00

ATOM	8346	CB	SER	561	53.675	73.480	87.356	0.00	0.00
ATOM	8347	HB2	SER	561	54.653	73.016	87.487	0.00	0.00
ATOM	8348	HB3	SER	561	53.110	72.704	86.839	0.00	0.00
ATOM	8349	OG	SER	561	53.711	74.645	86.492	0.00	0.00
ATOM	8350	HG	SER	561	52.870	74.593	86.032	0.00	0.00
ATOM	8351	C	SER	561	53.842	74.683	89.456	0.00	0.00
ATOM	8352	O	SER	561	54.807	74.421	90.199	0.00	0.00
ATOM	8353	N	A21	562	53.479	75.941	89.330	0.00	0.00
ATOM	8354	H	A21	562	52.709	76.181	88.722	0.00	0.00
ATOM	8355	CA	A21	562	54.194	77.115	89.800	0.00	0.00
ATOM	8356	HA	A21	562	53.711	78.014	89.416	0.00	0.00
ATOM	8357	CB	A21	562	53.942	77.141	91.322	0.00	0.00
ATOM	8358	HB2	A21	562	53.182	76.426	91.638	0.00	0.00
ATOM	8359	HB3	A21	562	54.894	76.835	91.755	0.00	0.00
ATOM	8360	CG	A21	562	53.704	78.519	91.920	0.00	0.00
ATOM	8361	OD1	A21	562	54.316	79.521	91.558	0.00	0.00
ATOM	8362	OD2	A21	562	52.854	78.633	92.845	0.00	0.00
ATOM	8363	C	A21	562	55.725	77.094	89.442	0.00	0.00
ATOM	8364	O	A21	562	56.619	77.465	90.185	0.00	0.00
ATOM	8365	N	SER	563	56.015	76.652	88.166	0.00	0.00
ATOM	8366	H	SER	563	55.216	76.681	87.549	0.00	0.00
ATOM	8367	CA	SER	563	57.352	76.161	87.709	0.00	0.00
ATOM	8368	HA	SER	563	57.669	75.259	88.233	0.00	0.00
ATOM	8369	CB	SER	563	57.174	75.793	86.261	0.00	0.00
ATOM	8370	HB2	SER	563	56.457	76.439	85.755	0.00	0.00
ATOM	8371	HB3	SER	563	58.179	75.925	85.860	0.00	0.00

ATOM	8372	OG	SER	563	56.742	74.498	86.082	0.00	0.00
ATOM	8373	HG	SER	563	55.782	74.509	86.074	0.00	0.00
ATOM	8374	C	SER	563	58.530	77.157	87.911	0.00	0.00
ATOM	8375	O	SER	563	58.634	78.196	87.191	0.00	0.00
ATOM	8376	N	GLN	564	59.529	76.731	88.749	0.00	0.00
ATOM	8377	H	GLN	564	59.395	75.870	89.258	0.00	0.00
ATOM	8378	CA	GLN	564	60.755	77.524	89.009	0.00	0.00
ATOM	8379	HA	GLN	564	61.425	77.054	89.728	0.00	0.00
ATOM	8380	CB	GLN	564	61.553	77.571	87.631	0.00	0.00
ATOM	8381	HB2	GLN	564	61.415	76.630	87.099	0.00	0.00
ATOM	8382	HB3	GLN	564	61.326	78.438	87.009	0.00	0.00
ATOM	8383	CG	GLN	564	63.078	77.750	87.909	0.00	0.00
ATOM	8384	HG2	GLN	564	63.279	78.801	87.700	0.00	0.00
ATOM	8385	HG3	GLN	564	63.269	77.596	88.971	0.00	0.00
ATOM	8386	CD	GLN	564	63.996	76.835	87.058	0.00	0.00
ATOM	8387	OE1	GLN	564	64.480	77.121	85.958	0.00	0.00
ATOM	8388	NE2	GLN	564	64.114	75.611	87.473	0.00	0.00
ATOM	8389	1HE2	GLN	564	64.366	74.893	86.810	0.00	0.00
ATOM	8390	2HE2	GLN	564	63.774	75.364	88.391	0.00	0.00
ATOM	8391	C	GLN	564	60.468	78.905	89.629	0.00	0.00
ATOM	8392	O	GLN	564	61.363	79.761	89.816	0.00	0.00
ATOM	8393	N	ALA	565	59.203	79.219	90.058	0.00	0.00
ATOM	8394	H	ALA	565	58.458	78.538	90.095	0.00	0.00
ATOM	8395	CA	ALA	565	58.969	80.305	91.048	0.00	0.00
ATOM	8396	HA	ALA	565	59.799	81.008	91.121	0.00	0.00
ATOM	8397	CB	ALA	565	57.873	81.172	90.510	0.00	0.00

ATOM 8398 HB1 ALA 565 57.047 80.474 90.380 0.00 0.00  
ATOM 8399 HB2 ALA 565 57.685 82.006 91.187 0.00 0.00  
ATOM 8400 HB3 ALA 565 58.073 81.528 89.499 0.00 0.00  
ATOM 8401 C ALA 565 58.606 79.881 92.457 0.00 0.00  
ATOM 8402 O ALA 565 59.135 80.420 93.444 0.00 0.00  
ATOM 8403 N MET 566 57.805 78.819 92.492 0.00 0.00  
ATOM 8404 H MET 566 57.640 78.244 91.679 0.00 0.00  
ATOM 8405 CA MET 566 57.432 78.176 93.777 0.00 0.00  
ATOM 8406 HA MET 566 58.263 78.273 94.475 0.00 0.00  
ATOM 8407 CB MET 566 56.181 78.844 94.286 0.00 0.00  
ATOM 8408 HB2 MET 566 56.323 79.917 94.156 0.00 0.00  
ATOM 8409 HB3 MET 566 55.310 78.421 93.786 0.00 0.00  
ATOM 8410 CG MET 566 55.954 78.504 95.812 0.00 0.00  
ATOM 8411 HG2 MET 566 55.229 77.691 95.798 0.00 0.00  
ATOM 8412 HG3 MET 566 56.907 78.161 96.217 0.00 0.00  
ATOM 8413 SD MET 566 55.279 79.815 96.811 0.00 0.00  
ATOM 8414 CE MET 566 55.341 78.974 98.431 0.00 0.00  
ATOM 8415 HE1 MET 566 55.064 79.695 99.200 0.00 0.00  
ATOM 8416 HE2 MET 566 54.697 78.105 98.292 0.00 0.00  
ATOM 8417 HE3 MET 566 56.310 78.611 98.773 0.00 0.00  
ATOM 8418 C MET 566 57.172 76.655 93.564 0.00 0.00  
ATOM 8419 O MET 566 56.190 76.058 94.088 0.00 0.00  
TER 0 0  
ATOM 8420 N GLY 567 57.811 75.960 92.635 0.00 0.00  
ATOM 8421 H GLY 567 58.549 76.340 92.060 0.00 0.00  
ATOM 8422 CA GLY 567 57.620 74.516 92.420 0.00 0.00

ATOM	8423	HA2	GLY	567	57.696	74.012	93.384	0.00	0.00
ATOM	8424	HA3	GLY	567	56.633	74.306	92.008	0.00	0.00
ATOM	8425	C	GLY	567	58.453	73.823	91.339	0.00	0.00
ATOM	8426	O	GLY	567	58.744	74.499	90.311	0.00	0.00
ATOM	8427	N	ARG	568	58.960	72.664	91.677	0.00	0.00
ATOM	8428	H	ARG	568	58.809	72.232	92.578	0.00	0.00
ATOM	8429	CA	ARG	568	60.124	72.024	91.029	0.00	0.00
ATOM	8430	HA	ARG	568	60.859	72.731	90.644	0.00	0.00
ATOM	8431	CB	ARG	568	60.804	70.952	91.859	0.00	0.00
ATOM	8432	HB2	ARG	568	61.524	70.340	91.315	0.00	0.00
ATOM	8433	HB3	ARG	568	61.383	71.494	92.607	0.00	0.00
ATOM	8434	CG	ARG	568	59.827	70.088	92.725	0.00	0.00
ATOM	8435	HG2	ARG	568	59.070	70.647	93.275	0.00	0.00
ATOM	8436	HG3	ARG	568	59.289	69.376	92.099	0.00	0.00
ATOM	8437	CD	ARG	568	60.695	69.351	93.751	0.00	0.00
ATOM	8438	HD2	ARG	568	60.115	68.713	94.418	0.00	0.00
ATOM	8439	HD3	ARG	568	61.287	68.599	93.230	0.00	0.00
ATOM	8440	NE	ARG	568	61.596	70.180	94.590	0.00	0.00
ATOM	8441	HE	ARG	568	62.502	70.471	94.250	0.00	0.00
ATOM	8442	CZ	ARG	568	61.275	70.715	95.766	0.00	0.00
ATOM	8443	NH1	ARG	568	60.149	70.496	96.316	0.00	0.00
ATOM	8444	1HH1	ARG	568	59.975	70.958	97.197	0.00	0.00
ATOM	8445	2HH1	ARG	568	59.322	70.085	95.906	0.00	0.00
ATOM	8446	NH2	ARG	568	62.138	71.379	96.417	0.00	0.00
ATOM	8447	1HH2	ARG	568	61.839	71.724	97.318	0.00	0.00
ATOM	8448	2HH2	ARG	568	63.050	71.591	96.039	0.00	0.00



ATOM	8449	C	ARG	568	59.586	71.335	89.785	0.00	0.00
ATOM	8450	O	ARG	568	58.821	70.324	89.836	0.00	0.00
ATOM	8451	N	VAL	569	60.104	71.895	88.661	0.00	0.00
ATOM	8452	H	VAL	569	60.551	72.793	88.779	0.00	0.00
ATOM	8453	CA	VAL	569	59.802	71.579	87.209	0.00	0.00
ATOM	8454	HA	VAL	569	58.735	71.773	87.095	0.00	0.00
ATOM	8455	CB	VAL	569	60.666	72.464	86.232	0.00	0.00
ATOM	8456	HB	VAL	569	61.695	72.235	86.510	0.00	0.00
ATOM	8457	CG1	VAL	569	60.379	72.012	84.821	0.00	0.00
ATOM	8458	1HG1	VAL	569	59.305	71.828	84.800	0.00	0.00
ATOM	8459	2HG1	VAL	569	60.676	72.770	84.096	0.00	0.00
ATOM	8460	3HG1	VAL	569	60.948	71.104	84.620	0.00	0.00
ATOM	8461	CG2	VAL	569	60.372	73.986	86.304	0.00	0.00
ATOM	8462	1HG2	VAL	569	61.326	74.469	86.094	0.00	0.00
ATOM	8463	2HG2	VAL	569	59.587	74.282	85.607	0.00	0.00
ATOM	8464	3HG2	VAL	569	59.970	74.226	87.288	0.00	0.00
ATOM	8465	C	VAL	569	60.116	70.103	87.107	0.00	0.00
ATOM	8466	O	VAL	569	59.383	69.360	86.452	0.00	0.00
ATOM	8467	N	GLY	570	61.237	69.661	87.725	0.00	0.00
ATOM	8468	H	GLY	570	61.841	70.320	88.195	0.00	0.00
ATOM	8469	CA	GLY	570	61.813	68.375	87.592	0.00	0.00
ATOM	8470	HA2	GLY	570	62.087	68.127	86.566	0.00	0.00
ATOM	8471	HA3	GLY	570	62.731	68.377	88.179	0.00	0.00
ATOM	8472	C	GLY	570	60.941	67.182	88.086	0.00	0.00
ATOM	8473	O	GLY	570	61.303	66.027	87.824	0.00	0.00
ATOM	8474	N	GLU	571	59.910	67.495	88.879	0.00	0.00

ATOM	8475	H	GLU	571	59.638	68.463	88.976	0.00	0.00
ATOM	8476	CA	GLU	571	59.171	66.462	89.638	0.00	0.00
ATOM	8477	HA	GLU	571	59.298	65.498	89.145	0.00	0.00
ATOM	8478	CB	GLU	571	59.697	66.427	91.118	0.00	0.00
ATOM	8479	HB2	GLU	571	59.233	67.124	91.815	0.00	0.00
ATOM	8480	HB3	GLU	571	59.471	65.418	91.463	0.00	0.00
ATOM	8481	CG	GLU	571	61.215	66.471	91.265	0.00	0.00
ATOM	8482	HG2	GLU	571	61.782	65.941	90.500	0.00	0.00
ATOM	8483	HG3	GLU	571	61.465	67.532	91.243	0.00	0.00
ATOM	8484	CD	GLU	571	61.620	65.886	92.613	0.00	0.00
ATOM	8485	OE1	GLU	571	62.661	65.246	92.636	0.00	0.00
ATOM	8486	OE2	GLU	571	61.014	66.209	93.687	0.00	0.00
ATOM	8487	C	GLU	571	57.636	66.800	89.722	0.00	0.00
ATOM	8488	O	GLU	571	56.954	66.276	90.635	0.00	0.00
ATOM	8489	N	VAL	572	57.154	67.702	88.855	0.00	0.00
ATOM	8490	H	VAL	572	57.837	68.208	88.310	0.00	0.00
ATOM	8491	CA	VAL	572	55.726	68.006	88.761	0.00	0.00
ATOM	8492	HA	VAL	572	55.452	68.438	89.724	0.00	0.00
ATOM	8493	CB	VAL	572	55.339	69.080	87.646	0.00	0.00
ATOM	8494	HB	VAL	572	54.252	69.158	87.626	0.00	0.00
ATOM	8495	CG1	VAL	572	55.950	70.411	87.930	0.00	0.00
ATOM	8496	1HG1	VAL	572	57.009	70.250	88.130	0.00	0.00
ATOM	8497	2HG1	VAL	572	55.703	71.048	87.081	0.00	0.00
ATOM	8498	3HG1	VAL	572	55.501	70.683	88.885	0.00	0.00
ATOM	8499	CG2	VAL	572	55.872	68.619	86.321	0.00	0.00
ATOM	8500	1HG2	VAL	572	55.168	67.895	85.912	0.00	0.00

ATOM	8501	2HG2	VAL	572	56.049	69.474	85.668	0.00	0.00
ATOM	8502	3HG2	VAL	572	56.859	68.163	86.407	0.00	0.00
ATOM	8503	C	VAL	572	54.721	66.803	88.636	0.00	0.00
ATOM	8504	O	VAL	572	53.739	66.751	89.416	0.00	0.00
ATOM	8505	N	ILE	573	55.060	65.804	87.851	0.00	0.00
ATOM	8506	H	ILE	573	55.955	65.959	87.411	0.00	0.00
ATOM	8507	CA	ILE	573	54.281	64.594	87.658	0.00	0.00
ATOM	8508	HA	ILE	573	53.223	64.759	87.861	0.00	0.00
ATOM	8509	CB	ILE	573	54.304	64.094	86.132	0.00	0.00
ATOM	8510	HB	ILE	573	55.331	63.863	85.849	0.00	0.00
ATOM	8511	CG2	ILE	573	53.518	62.824	86.062	0.00	0.00
ATOM	8512	1HG2	ILE	573	54.031	62.143	86.742	0.00	0.00
ATOM	8513	2HG2	ILE	573	52.448	62.922	86.243	0.00	0.00
ATOM	8514	3HG2	ILE	573	53.503	62.368	85.072	0.00	0.00
ATOM	8515	CG1	ILE	573	53.699	65.145	85.145	0.00	0.00
ATOM	8516	2HG1	ILE	573	54.509	65.830	84.893	0.00	0.00
ATOM	8517	3HG1	ILE	573	53.382	64.627	84.239	0.00	0.00
ATOM	8518	CD1	ILE	573	52.597	66.011	85.622	0.00	0.00
ATOM	8519	1HD1	ILE	573	52.232	66.481	84.709	0.00	0.00
ATOM	8520	2HD1	ILE	573	51.803	65.350	85.969	0.00	0.00
ATOM	8521	3HD1	ILE	573	52.825	66.710	86.427	0.00	0.00
ATOM	8522	C	ILE	573	54.621	63.481	88.640	0.00	0.00
ATOM	8523	O	ILE	573	53.780	62.739	89.186	0.00	0.00
ATOM	8524	N	LEU	574	55.886	63.454	89.045	0.00	0.00
ATOM	8525	H	LEU	574	56.411	64.267	88.755	0.00	0.00
ATOM	8526	CA	LEU	574	56.454	62.466	90.044	0.00	0.00

ATOM	8527	HA	LEU	574	56.286	61.459	89.661	0.00	0.00
ATOM	8528	CB	LEU	574	57.894	62.796	90.113	0.00	0.00
ATOM	8529	HB2	LEU	574	58.209	62.811	89.069	0.00	0.00
ATOM	8530	HB3	LEU	574	57.934	63.866	90.318	0.00	0.00
ATOM	8531	CG	LEU	574	58.862	61.920	90.937	0.00	0.00
ATOM	8532	HG	LEU	574	58.640	60.857	90.838	0.00	0.00
ATOM	8533	CD1	LEU	574	60.290	62.168	90.465	0.00	0.00
ATOM	8534	1HD1	LEU	574	60.349	61.813	89.436	0.00	0.00
ATOM	8535	2HD1	LEU	574	60.492	63.236	90.386	0.00	0.00
ATOM	8536	3HD1	LEU	574	61.070	61.642	91.017	0.00	0.00
ATOM	8537	CD2	LEU	574	58.681	62.139	92.436	0.00	0.00
ATOM	8538	1HD2	LEU	574	59.449	61.623	93.012	0.00	0.00
ATOM	8539	2HD2	LEU	574	58.640	63.209	92.639	0.00	0.00
ATOM	8540	3HD2	LEU	574	57.717	61.740	92.753	0.00	0.00
ATOM	8541	C	LEU	574	55.716	62.747	91.357	0.00	0.00
ATOM	8542	O	LEU	574	54.934	61.894	91.815	0.00	0.00
ATOM	8543	N	ARG	575	55.645	64.040	91.810	0.00	0.00
ATOM	8544	H	ARG	575	56.096	64.801	91.322	0.00	0.00
ATOM	8545	CA	ARG	575	55.001	64.408	93.076	0.00	0.00
ATOM	8546	HA	ARG	575	55.404	63.707	93.806	0.00	0.00
ATOM	8547	CB	ARG	575	55.256	65.849	93.600	0.00	0.00
ATOM	8548	HB2	ARG	575	54.985	66.525	92.790	0.00	0.00
ATOM	8549	HB3	ARG	575	54.584	65.982	94.449	0.00	0.00
ATOM	8550	CG	ARG	575	56.698	66.199	94.056	0.00	0.00
ATOM	8551	HG2	ARG	575	57.256	66.301	93.126	0.00	0.00
ATOM	8552	HG3	ARG	575	56.823	67.155	94.566	0.00	0.00

ATOM	8553	CD	ARG	575	57.432	65.122	94.898	0.00	0.00
ATOM	8554	HD2	ARG	575	56.862	64.956	95.813	0.00	0.00
ATOM	8555	HD3	ARG	575	57.444	64.186	94.340	0.00	0.00
ATOM	8556	NE	ARG	575	58.886	65.475	95.307	0.00	0.00
ATOM	8557	HE	ARG	575	59.477	65.866	94.587	0.00	0.00
ATOM	8558	CZ	ARG	575	59.433	65.359	96.515	0.00	0.00
ATOM	8559	NH1	ARG	575	58.956	64.623	97.426	0.00	0.00
ATOM	8560	1HH1	ARG	575	59.593	64.342	98.157	0.00	0.00
ATOM	8561	2HH1	ARG	575	58.290	63.903	97.184	0.00	0.00
ATOM	8562	NH2	ARG	575	60.568	65.920	96.789	0.00	0.00
ATOM	8563	1HH2	ARG	575	61.046	65.734	97.659	0.00	0.00
ATOM	8564	2HH2	ARG	575	61.103	66.535	96.192	0.00	0.00
ATOM	8565	C	ARG	575	53.486	64.173	93.113	0.00	0.00
ATOM	8566	O	ARG	575	52.986	63.849	94.187	0.00	0.00
ATOM	8567	N	THR	576	52.768	64.273	91.947	0.00	0.00
ATOM	8568	H	THR	576	53.274	64.543	91.115	0.00	0.00
ATOM	8569	CA	THR	576	51.394	63.909	91.726	0.00	0.00
ATOM	8570	HA	THR	576	50.722	64.439	92.402	0.00	0.00
ATOM	8571	CB	THR	576	50.997	64.215	90.304	0.00	0.00
ATOM	8572	HB	THR	576	51.439	63.576	89.540	0.00	0.00
ATOM	8573	CG2	THR	576	49.437	64.223	90.196	0.00	0.00
ATOM	8574	1HG2	THR	576	48.922	64.707	91.026	0.00	0.00
ATOM	8575	2HG2	THR	576	49.298	64.625	89.192	0.00	0.00
ATOM	8576	3HG2	THR	576	49.105	63.188	90.281	0.00	0.00
ATOM	8577	OG1	THR	576	51.354	65.551	89.939	0.00	0.00
ATOM	8578	HG1	THR	576	52.270	65.712	90.178	0.00	0.00

ATOM	8579	C	THR	576	51.225	62.447	91.970	0.00	0.00
ATOM	8580	O	THR	576	50.316	62.087	92.668	0.00	0.00
ATOM	8581	N	TRP	577	52.064	61.492	91.568	0.00	0.00
ATOM	8582	H	TRP	577	52.709	61.797	90.852	0.00	0.00
ATOM	8583	CA	TRP	577	51.856	60.017	91.767	0.00	0.00
ATOM	8584	HA	TRP	577	50.780	59.864	91.842	0.00	0.00
ATOM	8585	CB	TRP	577	52.517	59.370	90.544	0.00	0.00
ATOM	8586	HB2	TRP	577	53.387	60.008	90.390	0.00	0.00
ATOM	8587	HB3	TRP	577	52.811	58.338	90.737	0.00	0.00
ATOM	8588	CG	TRP	577	51.627	59.431	89.375	0.00	0.00
ATOM	8589	CD1	TRP	577	51.940	60.032	88.223	0.00	0.00
ATOM	8590	HD1	TRP	577	52.861	60.538	87.975	0.00	0.00
ATOM	8591	NE1	TRP	577	50.837	59.909	87.422	0.00	0.00
ATOM	8592	HE1	TRP	577	50.779	60.437	86.563	0.00	0.00
ATOM	8593	CE2	TRP	577	49.771	59.292	88.022	0.00	0.00
ATOM	8594	CZ2	TRP	577	48.484	59.055	87.553	0.00	0.00
ATOM	8595	HZ2	TRP	577	48.120	59.413	86.602	0.00	0.00
ATOM	8596	CH2	TRP	577	47.665	58.324	88.457	0.00	0.00
ATOM	8597	HH2	TRP	577	46.654	58.115	88.140	0.00	0.00
ATOM	8598	CZ3	TRP	577	48.114	57.877	89.724	0.00	0.00
ATOM	8599	HZ3	TRP	577	47.427	57.243	90.265	0.00	0.00
ATOM	8600	CE3	TRP	577	49.402	58.256	90.172	0.00	0.00
ATOM	8601	HE3	TRP	577	49.839	57.948	91.110	0.00	0.00
ATOM	8602	CD2	TRP	577	50.243	59.001	89.310	0.00	0.00
ATOM	8603	C	TRP	577	52.292	59.605	93.143	0.00	0.00
ATOM	8604	O	TRP	577	51.627	58.776	93.764	0.00	0.00

ATOM	8605	N	GLN	578	53.294	60.304	93.774	0.00	0.00
ATOM	8606	H	GLN	578	53.969	60.699	93.135	0.00	0.00
ATOM	8607	CA	GLN	578	53.597	60.076	95.247	0.00	0.00
ATOM	8608	HA	GLN	578	53.970	59.055	95.325	0.00	0.00
ATOM	8609	CB	GLN	578	54.756	60.998	95.749	0.00	0.00
ATOM	8610	HB2	GLN	578	54.603	62.047	95.497	0.00	0.00
ATOM	8611	HB3	GLN	578	54.940	60.961	96.822	0.00	0.00
ATOM	8612	CG	GLN	578	56.115	60.594	95.196	0.00	0.00
ATOM	8613	HG2	GLN	578	56.313	59.569	95.509	0.00	0.00
ATOM	8614	HG3	GLN	578	55.945	60.653	94.121	0.00	0.00
ATOM	8615	CD	GLN	578	57.290	61.474	95.657	0.00	0.00
ATOM	8616	OE1	GLN	578	57.154	62.590	96.081	0.00	0.00
ATOM	8617	NE2	GLN	578	58.460	60.982	95.811	0.00	0.00
ATOM	8618	1HE2	GLN	578	59.140	61.592	96.242	0.00	0.00
ATOM	8619	2HE2	GLN	578	58.725	60.113	95.370	0.00	0.00
ATOM	8620	C	GLN	578	52.358	60.274	96.195	0.00	0.00
ATOM	8621	O	GLN	578	52.175	59.384	97.048	0.00	0.00
ATOM	8622	N	VAL	579	51.609	61.374	95.925	0.00	0.00
ATOM	8623	H	VAL	579	51.946	61.981	95.192	0.00	0.00
ATOM	8624	CA	VAL	579	50.354	61.593	96.608	0.00	0.00
ATOM	8625	HA	VAL	579	50.424	61.659	97.693	0.00	0.00
ATOM	8626	CB	VAL	579	49.686	62.926	96.096	0.00	0.00
ATOM	8627	HB	VAL	579	49.561	62.959	95.013	0.00	0.00
ATOM	8628	CG1	VAL	579	48.312	63.248	96.817	0.00	0.00
ATOM	8629	1HG1	VAL	579	47.621	62.417	96.675	0.00	0.00
ATOM	8630	2HG1	VAL	579	48.429	63.468	97.878	0.00	0.00

ATOM	8631	3HG1	VAL	579	47.798	64.091	96.356	0.00	0.00
ATOM	8632	CG2	VAL	579	50.495	64.232	96.405	0.00	0.00
ATOM	8633	1HG2	VAL	579	51.450	64.269	95.880	0.00	0.00
ATOM	8634	2HG2	VAL	579	49.888	65.107	96.172	0.00	0.00
ATOM	8635	3HG2	VAL	579	50.648	64.374	97.474	0.00	0.00
ATOM	8636	C	VAL	579	49.369	60.425	96.521	0.00	0.00
ATOM	8637	O	VAL	579	48.804	60.000	97.514	0.00	0.00
ATOM	8638	N	ALA	580	49.207	59.862	95.361	0.00	0.00
ATOM	8639	H	ALA	580	49.716	60.246	94.578	0.00	0.00
ATOM	8640	CA	ALA	580	48.265	58.744	95.095	0.00	0.00
ATOM	8641	HA	ALA	580	47.248	59.045	95.347	0.00	0.00
ATOM	8642	CB	ALA	580	48.325	58.467	93.605	0.00	0.00
ATOM	8643	HB1	ALA	580	48.221	59.458	93.163	0.00	0.00
ATOM	8644	HB2	ALA	580	49.280	58.004	93.355	0.00	0.00
ATOM	8645	HB3	ALA	580	47.459	57.885	93.293	0.00	0.00
ATOM	8646	C	ALA	580	48.661	57.522	95.950	0.00	0.00
ATOM	8647	O	ALA	580	47.817	56.814	96.527	0.00	0.00
ATOM	8648	N	HIE	581	49.982	57.038	95.827	0.00	0.00
ATOM	8649	H	HIE	581	50.715	57.614	95.438	0.00	0.00
ATOM	8650	CA	HIE	581	50.588	56.060	96.828	0.00	0.00
ATOM	8651	HA	HIE	581	50.153	55.077	96.648	0.00	0.00
ATOM	8652	CB	HIE	581	52.112	56.015	96.700	0.00	0.00
ATOM	8653	HB2	HIE	581	52.517	55.597	95.777	0.00	0.00
ATOM	8654	HB3	HIE	581	52.479	57.038	96.782	0.00	0.00
ATOM	8655	CG	HIE	581	52.810	55.210	97.757	0.00	0.00
ATOM	8656	ND1	HIE	581	53.290	53.912	97.606	0.00	0.00



ATOM	8657	CE1	HIE	581	53.883	53.599	98.771	0.00	0.00
ATOM	8658	HE1	HIE	581	54.463	52.731	99.046	0.00	0.00
ATOM	8659	NE2	HIE	581	53.797	54.653	99.601	0.00	0.00
ATOM	8660	HE2	HIE	581	54.103	54.556	100.559	0.00	0.00
ATOM	8661	CD2	HIE	581	53.047	55.626	99.005	0.00	0.00
ATOM	8662	HD2	HIE	581	52.719	56.584	99.380	0.00	0.00
ATOM	8663	C	HIE	581	50.173	56.455	98.259	0.00	0.00
ATOM	8664	O	HIE	581	49.634	55.627	99.031	0.00	0.00
ATOM	8665	N	ARG	582	50.265	57.705	98.596	0.00	0.00
ATOM	8666	H	ARG	582	50.691	58.314	97.913	0.00	0.00
ATOM	8667	CA	ARG	582	50.184	58.005	100.044	0.00	0.00
ATOM	8668	HA	ARG	582	50.753	57.262	100.603	0.00	0.00
ATOM	8669	CB	ARG	582	50.847	59.339	100.273	0.00	0.00
ATOM	8670	HB2	ARG	582	51.908	59.223	100.052	0.00	0.00
ATOM	8671	HB3	ARG	582	50.441	60.092	99.597	0.00	0.00
ATOM	8672	CG	ARG	582	50.585	59.917	101.624	0.00	0.00
ATOM	8673	HG2	ARG	582	49.578	60.243	101.884	0.00	0.00
ATOM	8674	HG3	ARG	582	50.844	59.114	102.314	0.00	0.00
ATOM	8675	CD	ARG	582	51.607	61.047	101.780	0.00	0.00
ATOM	8676	HD2	ARG	582	52.517	60.801	102.327	0.00	0.00
ATOM	8677	HD3	ARG	582	51.647	61.608	100.847	0.00	0.00
ATOM	8678	NE	ARG	582	50.899	61.959	102.675	0.00	0.00
ATOM	8679	HE	ARG	582	50.250	62.518	102.140	0.00	0.00
ATOM	8680	CZ	ARG	582	50.879	62.044	103.974	0.00	0.00
ATOM	8681	NH1	ARG	582	51.531	61.254	104.743	0.00	0.00
ATOM	8682	1HH1	ARG	582	51.296	61.210	105.724	0.00	0.00

ATOM	8683	2HH1	ARG	582	52.152	60.611	104.273	0.00	0.00
ATOM	8684	NH2	ARG	582	50.104	62.901	104.649	0.00	0.00
ATOM	8685	1HH2	ARG	582	50.000	62.769	105.645	0.00	0.00
ATOM	8686	2HH2	ARG	582	49.485	63.453	104.073	0.00	0.00
ATOM	8687	C	ARG	582	48.774	57.834	100.593	0.00	0.00
ATOM	8688	O	ARG	582	48.598	57.106	101.524	0.00	0.00
ATOM	8689	N	MET	583	47.851	58.197	99.763	0.00	0.00
ATOM	8690	H	MET	583	48.215	58.763	99.009	0.00	0.00
ATOM	8691	CA	MET	583	46.472	58.066	100.125	0.00	0.00
ATOM	8692	HA	MET	583	46.445	58.267	101.196	0.00	0.00
ATOM	8693	CB	MET	583	45.611	59.165	99.437	0.00	0.00
ATOM	8694	HB2	MET	583	45.758	59.076	98.361	0.00	0.00
ATOM	8695	HB3	MET	583	44.550	58.973	99.596	0.00	0.00
ATOM	8696	CG	MET	583	45.867	60.633	99.869	0.00	0.00
ATOM	8697	HG2	MET	583	46.924	60.599	100.137	0.00	0.00
ATOM	8698	HG3	MET	583	45.610	61.289	99.038	0.00	0.00
ATOM	8699	SD	MET	583	44.860	61.204	101.280	0.00	0.00
ATOM	8700	CE	MET	583	46.071	61.826	102.382	0.00	0.00
ATOM	8701	HE1	MET	583	45.540	62.475	103.078	0.00	0.00
ATOM	8702	HE2	MET	583	46.464	60.949	102.896	0.00	0.00
ATOM	8703	HE3	MET	583	46.822	62.342	101.784	0.00	0.00
ATOM	8704	C	MET	583	45.915	56.628	100.039	0.00	0.00
ATOM	8705	O	MET	583	44.833	56.300	100.558	0.00	0.00
ATOM	8706	N	LYS	584	46.683	55.740	99.341	0.00	0.00
ATOM	8707	H	LYS	584	47.443	56.061	98.759	0.00	0.00
ATOM	8708	CA	LYS	584	46.368	54.319	99.432	0.00	0.00

ATOM	8709	HA	LYS	584	45.318	54.187	99.172	0.00	0.00
ATOM	8710	CB	LYS	584	47.125	53.455	98.387	0.00	0.00
ATOM	8711	HB2	LYS	584	47.178	53.925	97.405	0.00	0.00
ATOM	8712	HB3	LYS	584	48.137	53.294	98.759	0.00	0.00
ATOM	8713	CG	LYS	584	46.502	52.025	98.263	0.00	0.00
ATOM	8714	HG2	LYS	584	46.455	51.500	99.217	0.00	0.00
ATOM	8715	HG3	LYS	584	45.461	52.212	98.000	0.00	0.00
ATOM	8716	CD	LYS	584	47.304	51.169	97.242	0.00	0.00
ATOM	8717	HD2	LYS	584	47.254	51.594	96.240	0.00	0.00
ATOM	8718	HD3	LYS	584	48.313	50.975	97.605	0.00	0.00
ATOM	8719	CE	LYS	584	46.532	49.813	97.216	0.00	0.00
ATOM	8720	HE2	LYS	584	46.546	49.343	98.199	0.00	0.00
ATOM	8721	HE3	LYS	584	45.474	50.006	97.036	0.00	0.00
ATOM	8722	NZ	LYS	584	47.155	48.768	96.335	0.00	0.00
ATOM	8723	HZ1	LYS	584	48.134	48.938	96.154	0.00	0.00
ATOM	8724	HZ2	LYS	584	47.151	47.946	96.922	0.00	0.00
ATOM	8725	HZ3	LYS	584	46.544	48.737	95.532	0.00	0.00
ATOM	8726	C	LYS	584	46.576	53.667	100.843	0.00	0.00
ATOM	8727	O	LYS	584	45.932	52.677	101.264	0.00	0.00
ATOM	8728	N	VAL	585	47.494	54.241	101.633	0.00	0.00
ATOM	8729	H	VAL	585	48.054	54.969	101.212	0.00	0.00
ATOM	8730	CA	VAL	585	48.037	53.768	102.913	0.00	0.00
ATOM	8731	HA	VAL	585	47.478	52.896	103.252	0.00	0.00
ATOM	8732	CB	VAL	585	49.549	53.393	102.731	0.00	0.00
ATOM	8733	HB	VAL	585	49.788	52.852	103.647	0.00	0.00
ATOM	8734	CG1	VAL	585	49.834	52.226	101.660	0.00	0.00

ATOM	8735	1HG1	VAL	585	50.844	51.820	101.712	0.00	0.00
ATOM	8736	2HG1	VAL	585	49.157	51.377	101.752	0.00	0.00
ATOM	8737	3HG1	VAL	585	49.743	52.644	100.657	0.00	0.00
ATOM	8738	CG2	VAL	585	50.542	54.553	102.487	0.00	0.00
ATOM	8739	1HG2	VAL	585	51.447	54.193	102.975	0.00	0.00
ATOM	8740	2HG2	VAL	585	50.666	54.784	101.429	0.00	0.00
ATOM	8741	3HG2	VAL	585	50.298	55.486	102.994	0.00	0.00
ATOM	8742	C	VAL	585	47.890	54.793	104.111	0.00	0.00
ATOM	8743	O	VAL	585	48.171	54.476	105.234	0.00	0.00
ATOM	8744	N	GLN	586	47.418	55.971	103.755	0.00	0.00
ATOM	8745	H	GLN	586	47.498	56.160	102.766	0.00	0.00
ATOM	8746	CA	GLN	586	47.014	56.939	104.730	0.00	0.00
ATOM	8747	HA	GLN	586	47.166	56.588	105.751	0.00	0.00
ATOM	8748	CB	GLN	586	47.841	58.283	104.621	0.00	0.00
ATOM	8749	HB2	GLN	586	47.714	58.646	103.601	0.00	0.00
ATOM	8750	HB3	GLN	586	47.474	59.034	105.321	0.00	0.00
ATOM	8751	CG	GLN	586	49.400	58.176	104.900	0.00	0.00
ATOM	8752	HG2	GLN	586	49.877	57.541	104.153	0.00	0.00
ATOM	8753	HG3	GLN	586	49.900	59.135	104.760	0.00	0.00
ATOM	8754	CD	GLN	586	49.786	57.559	106.235	0.00	0.00
ATOM	8755	OE1	GLN	586	48.954	57.319	107.074	0.00	0.00
ATOM	8756	NE2	GLN	586	51.092	57.322	106.376	0.00	0.00
ATOM	8757	1HE2	GLN	586	51.484	57.305	107.306	0.00	0.00
ATOM	8758	2HE2	GLN	586	51.747	57.422	105.614	0.00	0.00
ATOM	8759	C	GLN	586	45.485	57.379	104.621	0.00	0.00
ATOM	8760	O	GLN	586	44.923	58.151	105.481	0.00	0.00

ATOM	8761	N	ARG	587	44.778	56.781	103.740	0.00	0.00
ATOM	8762	H	ARG	587	45.256	56.032	103.260	0.00	0.00
ATOM	8763	CA	ARG	587	43.298	56.842	103.630	0.00	0.00
ATOM	8764	HA	ARG	587	42.851	57.004	104.611	0.00	0.00
ATOM	8765	CB	ARG	587	42.820	58.103	102.803	0.00	0.00
ATOM	8766	HB2	ARG	587	43.500	58.947	102.917	0.00	0.00
ATOM	8767	HB3	ARG	587	42.673	57.818	101.761	0.00	0.00
ATOM	8768	CG	ARG	587	41.498	58.679	103.276	0.00	0.00
ATOM	8769	HG2	ARG	587	40.692	57.947	103.232	0.00	0.00
ATOM	8770	HG3	ARG	587	41.793	58.894	104.303	0.00	0.00
ATOM	8771	CD	ARG	587	40.944	59.932	102.575	0.00	0.00
ATOM	8772	HD2	ARG	587	40.088	60.337	103.114	0.00	0.00
ATOM	8773	HD3	ARG	587	41.700	60.717	102.603	0.00	0.00
ATOM	8774	NE	ARG	587	40.701	59.756	101.167	0.00	0.00
ATOM	8775	HE	ARG	587	41.438	59.676	100.481	0.00	0.00
ATOM	8776	CZ	ARG	587	39.447	59.807	100.700	0.00	0.00
ATOM	8777	NH1	ARG	587	38.411	59.586	101.384	0.00	0.00
ATOM	8778	1HH1	ARG	587	37.504	59.424	100.968	0.00	0.00
ATOM	8779	2HH1	ARG	587	38.523	59.361	102.362	0.00	0.00
ATOM	8780	NH2	ARG	587	39.277	59.939	99.466	0.00	0.00
ATOM	8781	1HH2	ARG	587	38.315	59.993	99.163	0.00	0.00
ATOM	8782	2HH2	ARG	587	40.096	59.894	98.875	0.00	0.00
ATOM	8783	C	ARG	587	42.672	55.593	103.009	0.00	0.00
ATOM	8784	O	ARG	587	41.506	55.563	102.606	0.00	0.00
ATOM	8785	N	GLY	588	43.427	54.535	102.846	0.00	0.00
ATOM	8786	H	GLY	588	44.374	54.534	103.196	0.00	0.00

ATOM	8787	CA	GLY	588	42.965	53.187	102.448	0.00	0.00
ATOM	8788	HA2	GLY	588	43.738	52.445	102.651	0.00	0.00
ATOM	8789	HA3	GLY	588	42.113	52.843	103.034	0.00	0.00
ATOM	8790	C	GLY	588	42.570	53.114	100.974	0.00	0.00
ATOM	8791	O	GLY	588	42.601	53.996	100.181	0.00	0.00
ATOM	8792	N	ALA	589	41.968	51.966	100.623	0.00	0.00
ATOM	8793	H	ALA	589	41.878	51.111	101.154	0.00	0.00
ATOM	8794	CA	ALA	589	41.260	51.903	99.379	0.00	0.00
ATOM	8795	HA	ALA	589	41.941	51.896	98.528	0.00	0.00
ATOM	8796	CB	ALA	589	40.497	50.587	99.203	0.00	0.00
ATOM	8797	HB1	ALA	589	41.103	49.733	99.506	0.00	0.00
ATOM	8798	HB2	ALA	589	39.523	50.565	99.690	0.00	0.00
ATOM	8799	HB3	ALA	589	40.155	50.509	98.171	0.00	0.00
ATOM	8800	C	ALA	589	40.236	53.013	99.250	0.00	0.00
ATOM	8801	O	ALA	589	39.686	53.404	100.270	0.00	0.00
ATOM	8802	N	LEU	590	40.021	53.557	98.049	0.00	0.00
ATOM	8803	H	LEU	590	40.565	53.234	97.262	0.00	0.00
ATOM	8804	CA	LEU	590	39.110	54.734	97.893	0.00	0.00
ATOM	8805	HA	LEU	590	39.434	55.399	98.693	0.00	0.00
ATOM	8806	CB	LEU	590	39.473	55.383	96.530	0.00	0.00
ATOM	8807	HB2	LEU	590	40.542	55.582	96.449	0.00	0.00
ATOM	8808	HB3	LEU	590	39.275	54.697	95.706	0.00	0.00
ATOM	8809	CG	LEU	590	38.737	56.686	96.209	0.00	0.00
ATOM	8810	HG	LEU	590	37.695	56.437	96.012	0.00	0.00
ATOM	8811	CD1	LEU	590	38.760	57.731	97.329	0.00	0.00
ATOM	8812	1HD1	LEU	590	38.276	58.636	96.962	0.00	0.00

ATOM	8813	2HD1	LEU	590	38.292	57.522	98.291	0.00	0.00
ATOM	8814	3HD1	LEU	590	39.778	58.010	97.603	0.00	0.00
ATOM	8815	CD2	LEU	590	39.481	57.276	94.982	0.00	0.00
ATOM	8816	1HD2	LEU	590	38.844	58.072	94.598	0.00	0.00
ATOM	8817	2HD2	LEU	590	40.493	57.525	95.304	0.00	0.00
ATOM	8818	3HD2	LEU	590	39.532	56.515	94.203	0.00	0.00
ATOM	8819	C	LEU	590	37.618	54.411	98.055	0.00	0.00
ATOM	8820	O	LEU	590	36.973	53.972	97.061	0.00	0.00
ATOM	8821	N	ALA	591	37.138	54.696	99.269	0.00	0.00
ATOM	8822	H	ALA	591	37.820	54.953	99.969	0.00	0.00
ATOM	8823	CA	ALA	591	35.861	54.099	99.707	0.00	0.00
ATOM	8824	HA	ALA	591	35.865	53.080	99.319	0.00	0.00
ATOM	8825	CB	ALA	591	35.832	53.908	101.241	0.00	0.00
ATOM	8826	HB1	ALA	591	34.858	53.518	101.537	0.00	0.00
ATOM	8827	HB2	ALA	591	36.692	53.325	101.572	0.00	0.00
ATOM	8828	HB3	ALA	591	35.925	54.900	101.684	0.00	0.00
ATOM	8829	C	ALA	591	34.567	54.761	99.135	0.00	0.00
ATOM	8830	O	ALA	591	33.473	54.286	99.463	0.00	0.00
ATOM	8831	N	GLU	592	34.606	55.786	98.274	0.00	0.00
ATOM	8832	H	GLU	592	35.498	56.236	98.123	0.00	0.00
ATOM	8833	CA	GLU	592	33.411	56.277	97.477	0.00	0.00
ATOM	8834	HA	GLU	592	32.530	56.138	98.104	0.00	0.00
ATOM	8835	CB	GLU	592	33.606	57.834	97.213	0.00	0.00
ATOM	8836	HB2	GLU	592	32.782	58.218	96.613	0.00	0.00
ATOM	8837	HB3	GLU	592	33.680	58.416	98.132	0.00	0.00
ATOM	8838	CG	GLU	592	34.967	58.152	96.534	0.00	0.00

ATOM	8839	HG2	GLU	592	35.760	58.143	97.282	0.00	0.00
ATOM	8840	HG3	GLU	592	35.162	57.415	95.755	0.00	0.00
ATOM	8841	CD	GLU	592	34.858	59.532	95.984	0.00	0.00
ATOM	8842	OE1	GLU	592	35.305	60.466	96.694	0.00	0.00
ATOM	8843	OE2	GLU	592	34.395	59.786	94.896	0.00	0.00
ATOM	8844	C	GLU	592	33.164	55.468	96.165	0.00	0.00
ATOM	8845	O	GLU	592	32.107	55.626	95.475	0.00	0.00
ATOM	8846	N	GLU	593	33.993	54.438	95.893	0.00	0.00
ATOM	8847	H	GLU	593	34.813	54.346	96.476	0.00	0.00
ATOM	8848	CA	GLU	593	33.736	53.319	94.926	0.00	0.00
ATOM	8849	HA	GLU	593	32.687	53.440	94.655	0.00	0.00
ATOM	8850	CB	GLU	593	34.550	53.609	93.643	0.00	0.00
ATOM	8851	HB2	GLU	593	33.919	54.362	93.172	0.00	0.00
ATOM	8852	HB3	GLU	593	35.404	54.202	93.971	0.00	0.00
ATOM	8853	CG	GLU	593	34.819	52.460	92.724	0.00	0.00
ATOM	8854	HG2	GLU	593	35.303	52.904	91.854	0.00	0.00
ATOM	8855	HG3	GLU	593	35.542	51.826	93.236	0.00	0.00
ATOM	8856	CD	GLU	593	33.632	51.663	92.232	0.00	0.00
ATOM	8857	OE1	GLU	593	33.833	50.579	91.649	0.00	0.00
ATOM	8858	OE2	GLU	593	32.480	52.170	92.317	0.00	0.00
ATOM	8859	C	GLU	593	34.040	51.943	95.499	0.00	0.00
ATOM	8860	O	GLU	593	33.335	50.993	95.178	0.00	0.00
ATOM	8861	N	THR	594	34.968	51.863	96.432	0.00	0.00
ATOM	8862	H	THR	594	35.504	52.704	96.591	0.00	0.00
ATOM	8863	CA	THR	594	35.480	50.711	97.160	0.00	0.00
ATOM	8864	HA	THR	594	36.271	51.078	97.815	0.00	0.00



ATOM	8865	CB	THR	594	34.329	50.177	97.998	0.00	0.00
ATOM	8866	HB	THR	594	33.544	49.716	97.398	0.00	0.00
ATOM	8867	CG2	THR	594	34.802	49.221	99.076	0.00	0.00
ATOM	8868	1HG2	THR	594	34.018	49.116	99.826	0.00	0.00
ATOM	8869	2HG2	THR	594	35.086	48.234	98.711	0.00	0.00
ATOM	8870	3HG2	THR	594	35.710	49.554	99.578	0.00	0.00
ATOM	8871	OG1	THR	594	33.738	51.262	98.710	0.00	0.00
ATOM	8872	HG1	THR	594	33.283	51.824	98.079	0.00	0.00
ATOM	8873	C	THR	594	36.162	49.628	96.293	0.00	0.00
ATOM	8874	O	THR	594	36.228	48.417	96.643	0.00	0.00
ATOM	8875	N	GLY	595	36.668	50.044	95.099	0.00	0.00
ATOM	8876	H	GLY	595	36.548	50.995	94.780	0.00	0.00
ATOM	8877	CA	GLY	595	37.391	49.095	94.211	0.00	0.00
ATOM	8878	HA2	GLY	595	36.698	48.269	94.048	0.00	0.00
ATOM	8879	HA3	GLY	595	37.739	49.570	93.294	0.00	0.00
ATOM	8880	C	GLY	595	38.580	48.425	94.921	0.00	0.00
ATOM	8881	O	GLY	595	39.159	48.985	95.842	0.00	0.00
ATOM	8882	N	ASP	596	38.885	47.223	94.551	0.00	0.00
ATOM	8883	H	ASP	596	38.446	46.781	93.756	0.00	0.00
ATOM	8884	CA	ASP	596	40.064	46.428	95.072	0.00	0.00
ATOM	8885	HA	ASP	596	40.175	46.747	96.109	0.00	0.00
ATOM	8886	CB	ASP	596	39.762	44.944	95.020	0.00	0.00
ATOM	8887	HB2	ASP	596	39.847	44.654	93.973	0.00	0.00
ATOM	8888	HB3	ASP	596	38.769	44.865	95.463	0.00	0.00
ATOM	8889	CG	ASP	596	40.666	44.207	95.965	0.00	0.00
ATOM	8890	OD1	ASP	596	40.427	44.227	97.206	0.00	0.00

ATOM	8891	OD2	ASP	596	41.671	43.546	95.539	0.00	0.00
ATOM	8892	C	ASP	596	41.323	46.735	94.300	0.00	0.00
ATOM	8893	O	ASP	596	42.381	46.946	94.881	0.00	0.00
ATOM	8894	N	ASN	597	41.213	46.778	93.007	0.00	0.00
ATOM	8895	H	ASN	597	40.284	46.801	92.610	0.00	0.00
ATOM	8896	CA	ASN	597	42.262	47.378	92.103	0.00	0.00
ATOM	8897	HA	ASN	597	43.237	46.972	92.371	0.00	0.00
ATOM	8898	CB	ASN	597	41.967	46.856	90.611	0.00	0.00
ATOM	8899	HB2	ASN	597	42.803	47.202	90.003	0.00	0.00
ATOM	8900	HB3	ASN	597	41.969	45.767	90.549	0.00	0.00
ATOM	8901	CG	ASN	597	40.636	47.254	90.084	0.00	0.00
ATOM	8902	OD1	ASN	597	40.301	48.440	89.974	0.00	0.00
ATOM	8903	ND2	ASN	597	39.839	46.276	89.671	0.00	0.00
ATOM	8904	1HD2	ASN	597	39.009	46.550	89.165	0.00	0.00
ATOM	8905	2HD2	ASN	597	40.211	45.352	89.506	0.00	0.00
ATOM	8906	C	ASN	597	42.326	48.921	92.218	0.00	0.00
ATOM	8907	O	ASN	597	41.437	49.636	92.687	0.00	0.00
ATOM	8908	N	ASP	598	43.490	49.553	91.848	0.00	0.00
ATOM	8909	H	ASP	598	44.331	49.041	91.622	0.00	0.00
ATOM	8910	CA	ASP	598	43.732	50.951	92.111	0.00	0.00
ATOM	8911	HA	ASP	598	43.218	51.113	93.058	0.00	0.00
ATOM	8912	CB	ASP	598	45.157	51.043	92.545	0.00	0.00
ATOM	8913	HB2	ASP	598	45.818	50.599	91.801	0.00	0.00
ATOM	8914	HB3	ASP	598	45.464	52.070	92.741	0.00	0.00
ATOM	8915	CG	ASP	598	45.401	50.253	93.855	0.00	0.00
ATOM	8916	OD1	ASP	598	44.961	50.673	94.940	0.00	0.00

ATOM	8917	OD2	ASP	598	46.049	49.233	93.796	0.00	0.00
ATOM	8918	C	ASP	598	43.151	51.953	91.048	0.00	0.00
ATOM	8919	O	ASP	598	43.504	53.160	90.981	0.00	0.00
ATOM	8920	N	ASN	599	42.306	51.422	90.137	0.00	0.00
ATOM	8921	H	ASN	599	42.023	50.468	90.309	0.00	0.00
ATOM	8922	CA	ASN	599	41.819	52.092	88.938	0.00	0.00
ATOM	8923	HA	ASN	599	42.707	52.351	88.360	0.00	0.00
ATOM	8924	CB	ASN	599	41.024	51.122	87.936	0.00	0.00
ATOM	8925	HB2	ASN	599	40.143	50.714	88.432	0.00	0.00
ATOM	8926	HB3	ASN	599	40.695	51.639	87.034	0.00	0.00
ATOM	8927	CG	ASN	599	41.845	49.919	87.463	0.00	0.00
ATOM	8928	OD1	ASN	599	42.807	49.446	88.028	0.00	0.00
ATOM	8929	ND2	ASN	599	41.545	49.475	86.250	0.00	0.00
ATOM	8930	1HD2	ASN	599	42.114	48.871	85.674	0.00	0.00
ATOM	8931	2HD2	ASN	599	40.825	49.928	85.706	0.00	0.00
ATOM	8932	C	ASN	599	41.043	53.369	89.149	0.00	0.00
ATOM	8933	O	ASN	599	41.149	54.301	88.378	0.00	0.00
ATOM	8934	N	PHE	600	40.155	53.425	90.172	0.00	0.00
ATOM	8935	H	PHE	600	39.973	52.596	90.720	0.00	0.00
ATOM	8936	CA	PHE	600	39.330	54.652	90.370	0.00	0.00
ATOM	8937	HA	PHE	600	39.011	54.997	89.386	0.00	0.00
ATOM	8938	CB	PHE	600	38.092	54.105	91.115	0.00	0.00
ATOM	8939	HB2	PHE	600	37.637	53.346	90.479	0.00	0.00
ATOM	8940	HB3	PHE	600	38.372	53.703	92.089	0.00	0.00
ATOM	8941	CG	PHE	600	37.000	55.107	91.331	0.00	0.00
ATOM	8942	CD1	PHE	600	36.980	55.792	92.558	0.00	0.00

ATOM	8943	HD1	PHE	600	37.787	55.672	93.266	0.00	0.00
ATOM	8944	CE1	PHE	600	35.828	56.556	92.850	0.00	0.00
ATOM	8945	HE1	PHE	600	35.758	57.025	93.821	0.00	0.00
ATOM	8946	CZ	PHE	600	34.773	56.798	91.927	0.00	0.00
ATOM	8947	HZ	PHE	600	34.066	57.571	92.187	0.00	0.00
ATOM	8948	CE2	PHE	600	34.795	56.161	90.701	0.00	0.00
ATOM	8949	HE2	PHE	600	33.983	56.289	90.000	0.00	0.00
ATOM	8950	CD2	PHE	600	35.871	55.250	90.462	0.00	0.00
ATOM	8951	HD2	PHE	600	35.928	54.667	89.554	0.00	0.00
ATOM	8952	C	PHE	600	40.111	55.726	91.124	0.00	0.00
ATOM	8953	O	PHE	600	39.839	56.940	90.953	0.00	0.00
ATOM	8954	N	ARG	601	41.101	55.428	91.985	0.00	0.00
ATOM	8955	H	ARG	601	41.370	54.479	92.198	0.00	0.00
ATOM	8956	CA	ARG	601	42.160	56.423	92.371	0.00	0.00
ATOM	8957	HA	ARG	601	41.639	57.348	92.619	0.00	0.00
ATOM	8958	CB	ARG	601	42.961	55.926	93.596	0.00	0.00
ATOM	8959	HB2	ARG	601	42.283	55.656	94.405	0.00	0.00
ATOM	8960	HB3	ARG	601	43.514	55.013	93.377	0.00	0.00
ATOM	8961	CG	ARG	601	43.989	56.967	94.161	0.00	0.00
ATOM	8962	HG2	ARG	601	44.924	56.948	93.602	0.00	0.00
ATOM	8963	HG3	ARG	601	43.515	57.947	94.095	0.00	0.00
ATOM	8964	CD	ARG	601	44.426	56.742	95.643	0.00	0.00
ATOM	8965	HD2	ARG	601	44.653	55.676	95.666	0.00	0.00
ATOM	8966	HD3	ARG	601	45.259	57.436	95.757	0.00	0.00
ATOM	8967	NE	ARG	601	43.349	56.920	96.588	0.00	0.00
ATOM	8968	HE	ARG	601	43.142	57.891	96.770	0.00	0.00

ATOM 8969 CZ ARG 601 43.124 56.167 97.645 0.00 0.00  
ATOM 8970 NH1 ARG 601 43.466 54.879 97.572 0.00 0.00  
ATOM 8971 1HH1 ARG 601 43.280 54.266 98.352 0.00 0.00  
ATOM 8972 2HH1 ARG 601 43.963 54.587 96.742 0.00 0.00  
ATOM 8973 NH2 ARG 601 42.608 56.680 98.702 0.00 0.00  
ATOM 8974 1HH2 ARG 601 42.748 56.135 99.541 0.00 0.00  
ATOM 8975 2HH2 ARG 601 42.550 57.688 98.745 0.00 0.00  
ATOM 8976 C ARG 601 43.114 56.762 91.257 0.00 0.00  
ATOM 8977 O ARG 601 43.541 57.904 91.214 0.00 0.00  
ATOM 8978 N VAL 602 43.440 55.893 90.311 0.00 0.00  
ATOM 8979 H VAL 602 43.232 54.920 90.487 0.00 0.00  
ATOM 8980 CA VAL 602 44.355 56.260 89.212 0.00 0.00  
ATOM 8981 HA VAL 602 45.227 56.664 89.725 0.00 0.00  
ATOM 8982 CB VAL 602 44.896 55.007 88.481 0.00 0.00  
ATOM 8983 HB VAL 602 44.101 54.270 88.364 0.00 0.00  
ATOM 8984 CG1 VAL 602 45.463 55.376 87.052 0.00 0.00  
ATOM 8985 1HG1 VAL 602 46.343 56.020 87.043 0.00 0.00  
ATOM 8986 2HG1 VAL 602 45.871 54.424 86.713 0.00 0.00  
ATOM 8987 3HG1 VAL 602 44.654 55.885 86.529 0.00 0.00  
ATOM 8988 CG2 VAL 602 46.011 54.403 89.323 0.00 0.00  
ATOM 8989 1HG2 VAL 602 45.841 54.500 90.396 0.00 0.00  
ATOM 8990 2HG2 VAL 602 46.219 53.376 89.022 0.00 0.00  
ATOM 8991 3HG2 VAL 602 46.905 55.000 89.144 0.00 0.00  
ATOM 8992 C VAL 602 43.622 57.238 88.278 0.00 0.00  
ATOM 8993 O VAL 602 44.167 58.213 87.837 0.00 0.00  
ATOM 8994 N LYS 603 42.330 57.011 87.948 0.00 0.00

ATOM	8995	H	LYS	603	42.004	56.082	88.172	0.00	0.00
ATOM	8996	CA	LYS	603	41.576	57.889	86.994	0.00	0.00
ATOM	8997	HA	LYS	603	42.189	57.962	86.096	0.00	0.00
ATOM	8998	CB	LYS	603	40.282	57.142	86.716	0.00	0.00
ATOM	8999	HB2	LYS	603	39.997	56.700	87.671	0.00	0.00
ATOM	9000	HB3	LYS	603	39.497	57.809	86.361	0.00	0.00
ATOM	9001	CG	LYS	603	40.435	56.065	85.692	0.00	0.00
ATOM	9002	HG2	LYS	603	40.416	56.517	84.701	0.00	0.00
ATOM	9003	HG3	LYS	603	41.371	55.506	85.700	0.00	0.00
ATOM	9004	CD	LYS	603	39.181	55.080	85.719	0.00	0.00
ATOM	9005	HD2	LYS	603	38.995	54.658	86.707	0.00	0.00
ATOM	9006	HD3	LYS	603	38.257	55.551	85.385	0.00	0.00
ATOM	9007	CE	LYS	603	39.592	53.953	84.713	0.00	0.00
ATOM	9008	HE2	LYS	603	39.969	54.570	83.897	0.00	0.00
ATOM	9009	HE3	LYS	603	40.363	53.302	85.124	0.00	0.00
ATOM	9010	NZ	LYS	603	38.493	53.108	84.253	0.00	0.00
ATOM	9011	HZ1	LYS	603	38.893	52.442	83.607	0.00	0.00
ATOM	9012	HZ2	LYS	603	38.215	52.390	84.907	0.00	0.00
ATOM	9013	HZ3	LYS	603	37.713	53.673	83.951	0.00	0.00
ATOM	9014	C	LYS	603	41.373	59.312	87.514	0.00	0.00
ATOM	9015	O	LYS	603	41.590	60.229	86.777	0.00	0.00
ATOM	9016	N	ARG	604	41.104	59.387	88.795	0.00	0.00
ATOM	9017	H	ARG	604	40.940	58.500	89.250	0.00	0.00
ATOM	9018	CA	ARG	604	41.018	60.592	89.597	0.00	0.00
ATOM	9019	HA	ARG	604	40.164	61.201	89.298	0.00	0.00
ATOM	9020	CB	ARG	604	40.742	60.246	91.060	0.00	0.00

ATOM	9021	HB2	ARG	604	39.822	59.681	91.210	0.00	0.00
ATOM	9022	HB3	ARG	604	41.587	59.667	91.433	0.00	0.00
ATOM	9023	CG	ARG	604	40.646	61.481	91.949	0.00	0.00
ATOM	9024	HG2	ARG	604	41.632	61.807	92.278	0.00	0.00
ATOM	9025	HG3	ARG	604	40.121	62.317	91.485	0.00	0.00
ATOM	9026	CD	ARG	604	39.797	61.236	93.190	0.00	0.00
ATOM	9027	HD2	ARG	604	40.033	60.249	93.589	0.00	0.00
ATOM	9028	HD3	ARG	604	40.007	61.938	93.997	0.00	0.00
ATOM	9029	NE	ARG	604	38.398	61.333	92.747	0.00	0.00
ATOM	9030	HE	ARG	604	38.160	61.628	91.811	0.00	0.00
ATOM	9031	CZ	ARG	604	37.354	61.207	93.574	0.00	0.00
ATOM	9032	NH1	ARG	604	37.457	60.985	94.838	0.00	0.00
ATOM	9033	1HH1	ARG	604	36.666	60.878	95.457	0.00	0.00
ATOM	9034	2HH1	ARG	604	38.346	61.100	95.305	0.00	0.00
ATOM	9035	NH2	ARG	604	36.182	61.202	93.092	0.00	0.00
ATOM	9036	1HH2	ARG	604	35.418	60.906	93.683	0.00	0.00
ATOM	9037	2HH2	ARG	604	35.956	61.170	92.108	0.00	0.00
ATOM	9038	C	ARG	604	42.321	61.434	89.519	0.00	0.00
ATOM	9039	O	ARG	604	42.180	62.632	89.401	0.00	0.00
ATOM	9040	N	TYR	605	43.585	60.829	89.492	0.00	0.00
ATOM	9041	H	TYR	605	43.660	59.822	89.507	0.00	0.00
ATOM	9042	CA	TYR	605	44.790	61.583	89.474	0.00	0.00
ATOM	9043	HA	TYR	605	44.645	62.576	89.901	0.00	0.00
ATOM	9044	CB	TYR	605	45.804	60.792	90.333	0.00	0.00
ATOM	9045	HB2	TYR	605	45.790	59.764	89.969	0.00	0.00
ATOM	9046	HB3	TYR	605	46.716	61.345	90.108	0.00	0.00

ATOM	9047	CG	TYR	605	45.607	60.864	91.835	0.00	0.00
ATOM	9048	CD1	TYR	605	44.454	60.455	92.480	0.00	0.00
ATOM	9049	HD1	TYR	605	43.623	60.089	91.895	0.00	0.00
ATOM	9050	CE1	TYR	605	44.307	60.545	93.887	0.00	0.00
ATOM	9051	HE1	TYR	605	43.476	60.132	94.439	0.00	0.00
ATOM	9052	CZ	TYR	605	45.412	61.129	94.606	0.00	0.00
ATOM	9053	OH	TYR	605	45.306	61.225	95.949	0.00	0.00
ATOM	9054	HH	TYR	605	44.569	60.798	96.391	0.00	0.00
ATOM	9055	CE2	TYR	605	46.541	61.679	93.923	0.00	0.00
ATOM	9056	HE2	TYR	605	47.375	62.129	94.441	0.00	0.00
ATOM	9057	CD2	TYR	605	46.672	61.555	92.506	0.00	0.00
ATOM	9058	HD2	TYR	605	47.559	61.891	91.988	0.00	0.00
ATOM	9059	C	TYR	605	45.289	61.940	88.102	0.00	0.00
ATOM	9060	O	TYR	605	45.656	63.151	87.865	0.00	0.00
ATOM	9061	N	ILE	606	45.290	61.042	87.137	0.00	0.00
ATOM	9062	H	ILE	606	45.005	60.083	87.275	0.00	0.00
ATOM	9063	CA	ILE	606	45.654	61.335	85.730	0.00	0.00
ATOM	9064	HA	ILE	606	46.710	61.605	85.731	0.00	0.00
ATOM	9065	CB	ILE	606	45.403	60.150	84.783	0.00	0.00
ATOM	9066	HB	ILE	606	45.744	59.290	85.358	0.00	0.00
ATOM	9067	CG2	ILE	606	44.036	59.851	84.337	0.00	0.00
ATOM	9068	1HG2	ILE	606	43.282	59.845	85.125	0.00	0.00
ATOM	9069	2HG2	ILE	606	43.857	60.656	83.625	0.00	0.00
ATOM	9070	3HG2	ILE	606	44.072	58.839	83.935	0.00	0.00
ATOM	9071	CG1	ILE	606	46.336	60.299	83.610	0.00	0.00
ATOM	9072	2HG1	ILE	606	45.885	59.793	82.757	0.00	0.00



ATOM	9073	3HG1	ILE	606	46.337	61.360	83.357	0.00	0.00
ATOM	9074	CD1	ILE	606	47.741	59.761	83.889	0.00	0.00
ATOM	9075	1HD1	ILE	606	48.084	60.319	84.760	0.00	0.00
ATOM	9076	2HD1	ILE	606	47.703	58.675	83.979	0.00	0.00
ATOM	9077	3HD1	ILE	606	48.443	60.047	83.105	0.00	0.00
ATOM	9078	C	ILE	606	44.776	62.579	85.289	0.00	0.00
ATOM	9079	O	ILE	606	45.360	63.541	84.706	0.00	0.00
ATOM	9080	N	ALA	607	43.409	62.547	85.559	0.00	0.00
ATOM	9081	H	ALA	607	42.956	61.776	86.029	0.00	0.00
ATOM	9082	CA	ALA	607	42.553	63.680	85.091	0.00	0.00
ATOM	9083	HA	ALA	607	42.709	63.700	84.012	0.00	0.00
ATOM	9084	CB	ALA	607	41.107	63.248	85.417	0.00	0.00
ATOM	9085	HB1	ALA	607	41.022	63.020	86.480	0.00	0.00
ATOM	9086	HB2	ALA	607	40.368	64.044	85.322	0.00	0.00
ATOM	9087	HB3	ALA	607	40.911	62.346	84.837	0.00	0.00
ATOM	9088	C	ALA	607	43.015	65.029	85.626	0.00	0.00
ATOM	9089	O	ALA	607	42.671	65.993	85.084	0.00	0.00
ATOM	9090	N	LYS	608	43.891	65.078	86.686	0.00	0.00
ATOM	9091	H	LYS	608	44.125	64.210	87.146	0.00	0.00
ATOM	9092	CA	LYS	608	44.314	66.359	87.331	0.00	0.00
ATOM	9093	HA	LYS	608	43.449	67.022	87.319	0.00	0.00
ATOM	9094	CB	LYS	608	44.973	66.131	88.719	0.00	0.00
ATOM	9095	HB2	LYS	608	45.822	65.510	88.434	0.00	0.00
ATOM	9096	HB3	LYS	608	45.303	67.067	89.169	0.00	0.00
ATOM	9097	CG	LYS	608	43.970	65.440	89.711	0.00	0.00
ATOM	9098	HG2	LYS	608	43.221	66.177	89.999	0.00	0.00

ATOM	9099	HG3	LYS	608	43.457	64.584	89.275	0.00	0.00
ATOM	9100	CD	LYS	608	44.776	64.911	90.864	0.00	0.00
ATOM	9101	HD2	LYS	608	45.596	64.245	90.595	0.00	0.00
ATOM	9102	HD3	LYS	608	45.339	65.715	91.339	0.00	0.00
ATOM	9103	CE	LYS	608	43.928	64.297	91.961	0.00	0.00
ATOM	9104	HE2	LYS	608	43.569	63.344	91.573	0.00	0.00
ATOM	9105	HE3	LYS	608	44.636	64.101	92.767	0.00	0.00
ATOM	9106	NZ	LYS	608	42.771	65.154	92.411	0.00	0.00
ATOM	9107	HZ1	LYS	608	42.072	65.197	91.682	0.00	0.00
ATOM	9108	HZ2	LYS	608	42.207	64.760	93.150	0.00	0.00
ATOM	9109	HZ3	LYS	608	43.135	66.057	92.680	0.00	0.00
ATOM	9110	C	LYS	608	45.245	67.061	86.338	0.00	0.00
ATOM	9111	O	LYS	608	45.371	68.313	86.386	0.00	0.00
ATOM	9112	N	TYR	609	45.831	66.352	85.414	0.00	0.00
ATOM	9113	H	TYR	609	45.628	65.362	85.403	0.00	0.00
ATOM	9114	CA	TYR	609	46.788	67.010	84.435	0.00	0.00
ATOM	9115	HA	TYR	609	46.677	68.094	84.391	0.00	0.00
ATOM	9116	CB	TYR	609	48.196	66.811	85.039	0.00	0.00
ATOM	9117	HB2	TYR	609	48.847	67.527	84.536	0.00	0.00
ATOM	9118	HB3	TYR	609	48.111	67.093	86.088	0.00	0.00
ATOM	9119	CG	TYR	609	48.703	65.335	84.956	0.00	0.00
ATOM	9120	CD1	TYR	609	49.532	65.039	83.904	0.00	0.00
ATOM	9121	HD1	TYR	609	49.773	65.770	83.147	0.00	0.00
ATOM	9122	CE1	TYR	609	50.157	63.806	83.769	0.00	0.00
ATOM	9123	HE1	TYR	609	50.793	63.598	82.921	0.00	0.00
ATOM	9124	CZ	TYR	609	50.048	62.819	84.804	0.00	0.00

ATOM	9125	OH	TYR	609	50.763	61.654	84.800	0.00	0.00
ATOM	9126	HH	TYR	609	51.106	61.448	83.927	0.00	0.00
ATOM	9127	CE2	TYR	609	49.273	63.099	85.911	0.00	0.00
ATOM	9128	HE2	TYR	609	49.277	62.315	86.654	0.00	0.00
ATOM	9129	CD2	TYR	609	48.550	64.381	86.022	0.00	0.00
ATOM	9130	HD2	TYR	609	47.981	64.610	86.910	0.00	0.00
ATOM	9131	C	TYR	609	46.750	66.667	82.942	0.00	0.00
ATOM	9132	O	TYR	609	47.373	67.376	82.118	0.00	0.00
ATOM	9133	N	THR	610	46.095	65.582	82.582	0.00	0.00
ATOM	9134	H	THR	610	45.824	64.952	83.323	0.00	0.00
ATOM	9135	CA	THR	610	45.994	65.222	81.161	0.00	0.00
ATOM	9136	HA	THR	610	46.920	65.583	80.714	0.00	0.00
ATOM	9137	CB	THR	610	45.960	63.722	80.817	0.00	0.00
ATOM	9138	HB	THR	610	46.073	63.657	79.735	0.00	0.00
ATOM	9139	CG2	THR	610	47.288	63.210	81.262	0.00	0.00
ATOM	9140	1HG2	THR	610	47.281	62.193	80.871	0.00	0.00
ATOM	9141	2HG2	THR	610	48.136	63.776	80.876	0.00	0.00
ATOM	9142	3HG2	THR	610	47.282	63.137	82.350	0.00	0.00
ATOM	9143	OG1	THR	610	44.855	62.997	81.287	0.00	0.00
ATOM	9144	HG1	THR	610	44.666	62.276	80.682	0.00	0.00
ATOM	9145	C	THR	610	44.743	65.865	80.551	0.00	0.00
ATOM	9146	O	THR	610	44.629	65.733	79.328	0.00	0.00
ATOM	9147	N	ILE	611	43.816	66.484	81.294	0.00	0.00
ATOM	9148	H	ILE	611	44.051	66.804	82.223	0.00	0.00
ATOM	9149	CA	ILE	611	42.522	67.030	80.691	0.00	0.00
ATOM	9150	HA	ILE	611	42.618	67.273	79.633	0.00	0.00

ATOM	9151	CB	ILE	611	41.567	65.800	80.661	0.00	0.00
ATOM	9152	HB	ILE	611	41.968	65.028	80.005	0.00	0.00
ATOM	9153	CG2	ILE	611	41.273	65.114	81.992	0.00	0.00
ATOM	9154	1HG2	ILE	611	42.201	64.941	82.536	0.00	0.00
ATOM	9155	2HG2	ILE	611	40.635	65.746	82.610	0.00	0.00
ATOM	9156	3HG2	ILE	611	40.807	64.162	81.737	0.00	0.00
ATOM	9157	CG1	ILE	611	40.209	66.210	80.067	0.00	0.00
ATOM	9158	2HG1	ILE	611	39.528	65.363	79.980	0.00	0.00
ATOM	9159	3HG1	ILE	611	39.636	66.827	80.758	0.00	0.00
ATOM	9160	CD1	ILE	611	40.190	66.945	78.761	0.00	0.00
ATOM	9161	1HD1	ILE	611	40.772	67.866	78.773	0.00	0.00
ATOM	9162	2HD1	ILE	611	40.691	66.235	78.102	0.00	0.00
ATOM	9163	3HD1	ILE	611	39.142	67.090	78.500	0.00	0.00
ATOM	9164	C	ILE	611	42.041	68.225	81.545	0.00	0.00
ATOM	9165	O	ILE	611	41.729	69.215	80.924	0.00	0.00
ATOM	9166	N	ASN	612	41.874	68.144	82.855	0.00	0.00
ATOM	9167	H	ASN	612	41.931	67.257	83.335	0.00	0.00
ATOM	9168	CA	ASN	612	41.164	69.210	83.574	0.00	0.00
ATOM	9169	HA	ASN	612	40.164	69.330	83.158	0.00	0.00
ATOM	9170	CB	ASN	612	41.060	68.809	85.044	0.00	0.00
ATOM	9171	HB2	ASN	612	42.017	68.551	85.496	0.00	0.00
ATOM	9172	HB3	ASN	612	40.632	69.628	85.622	0.00	0.00
ATOM	9173	CG	ASN	612	40.152	67.639	85.178	0.00	0.00
ATOM	9174	OD1	ASN	612	39.392	67.240	84.278	0.00	0.00
ATOM	9175	ND2	ASN	612	40.059	66.920	86.295	0.00	0.00
ATOM	9176	1HD2	ASN	612	39.554	66.047	86.248	0.00	0.00

ATOM	9177	2HD2	ASN	612	40.474	67.275	87.144	0.00	0.00
ATOM	9178	C	ASN	612	41.725	70.628	83.450	0.00	0.00
ATOM	9179	O	ASN	612	40.919	71.538	83.204	0.00	0.00
ATOM	9180	N	PRO	613	43.076	70.847	83.366	0.00	0.00
ATOM	9181	CD	PRO	613	44.093	69.914	83.725	0.00	0.00
ATOM	9182	HD2	PRO	613	44.346	69.213	82.930	0.00	0.00
ATOM	9183	HD3	PRO	613	43.783	69.352	84.605	0.00	0.00
ATOM	9184	CG	PRO	613	45.276	70.670	84.176	0.00	0.00
ATOM	9185	HG2	PRO	613	44.976	71.026	85.162	0.00	0.00
ATOM	9186	HG3	PRO	613	46.220	70.126	84.147	0.00	0.00
ATOM	9187	CB	PRO	613	45.403	71.919	83.282	0.00	0.00
ATOM	9188	HB2	PRO	613	45.878	72.756	83.793	0.00	0.00
ATOM	9189	HB3	PRO	613	45.847	71.612	82.335	0.00	0.00
ATOM	9190	CA	PRO	613	43.791	72.161	83.118	0.00	0.00
ATOM	9191	HA	PRO	613	43.402	72.917	83.800	0.00	0.00
ATOM	9192	C	PRO	613	43.371	72.714	81.659	0.00	0.00
ATOM	9193	O	PRO	613	43.044	73.916	81.433	0.00	0.00
ATOM	9194	N	ALA	614	43.310	71.792	80.666	0.00	0.00
ATOM	9195	H	ALA	614	43.465	70.831	80.935	0.00	0.00
ATOM	9196	CA	ALA	614	42.951	72.060	79.285	0.00	0.00
ATOM	9197	HA	ALA	614	43.400	73.012	79.004	0.00	0.00
ATOM	9198	CB	ALA	614	43.488	70.870	78.424	0.00	0.00
ATOM	9199	HB1	ALA	614	42.928	69.970	78.681	0.00	0.00
ATOM	9200	HB2	ALA	614	43.505	70.991	77.341	0.00	0.00
ATOM	9201	HB3	ALA	614	44.451	70.500	78.775	0.00	0.00
ATOM	9202	C	ALA	614	41.507	72.319	79.082	0.00	0.00

ATOM	9203	O	ALA	614	41.174	73.008	78.112	0.00	0.00
ATOM	9204	N	LEU	615	40.646	71.872	80.021	0.00	0.00
ATOM	9205	H	LEU	615	40.876	71.127	80.663	0.00	0.00
ATOM	9206	CA	LEU	615	39.199	72.314	80.109	0.00	0.00
ATOM	9207	HA	LEU	615	38.713	72.322	79.134	0.00	0.00
ATOM	9208	CB	LEU	615	38.415	71.287	80.997	0.00	0.00
ATOM	9209	HB2	LEU	615	38.917	71.151	81.954	0.00	0.00
ATOM	9210	HB3	LEU	615	37.456	71.792	81.119	0.00	0.00
ATOM	9211	CG	LEU	615	38.182	69.878	80.302	0.00	0.00
ATOM	9212	HG	LEU	615	39.133	69.378	80.119	0.00	0.00
ATOM	9213	CD1	LEU	615	37.527	68.962	81.347	0.00	0.00
ATOM	9214	1HD1	LEU	615	38.145	68.855	82.238	0.00	0.00
ATOM	9215	2HD1	LEU	615	36.562	69.398	81.603	0.00	0.00
ATOM	9216	3HD1	LEU	615	37.471	67.966	80.909	0.00	0.00
ATOM	9217	CD2	LEU	615	37.379	69.946	79.046	0.00	0.00
ATOM	9218	1HD2	LEU	615	37.849	70.585	78.299	0.00	0.00
ATOM	9219	2HD2	LEU	615	37.148	69.022	78.516	0.00	0.00
ATOM	9220	3HD2	LEU	615	36.348	70.252	79.227	0.00	0.00
ATOM	9221	C	LEU	615	39.103	73.682	80.748	0.00	0.00
ATOM	9222	O	LEU	615	38.266	74.498	80.321	0.00	0.00
ATOM	9223	N	THR	616	39.988	73.969	81.727	0.00	0.00
ATOM	9224	H	THR	616	40.689	73.292	81.995	0.00	0.00
ATOM	9225	CA	THR	616	39.944	75.348	82.456	0.00	0.00
ATOM	9226	HA	THR	616	38.887	75.560	82.619	0.00	0.00
ATOM	9227	CB	THR	616	40.623	75.270	83.821	0.00	0.00
ATOM	9228	HB	THR	616	41.670	75.170	83.535	0.00	0.00

ATOM	9229	CG2	THR	616	40.386	76.590	84.531	0.00	0.00
ATOM	9230	1HG2	THR	616	40.700	76.424	85.562	0.00	0.00
ATOM	9231	2HG2	THR	616	40.958	77.339	83.984	0.00	0.00
ATOM	9232	3HG2	THR	616	39.318	76.793	84.613	0.00	0.00
ATOM	9233	OG1	THR	616	40.245	74.134	84.678	0.00	0.00
ATOM	9234	HG1	THR	616	40.476	73.333	84.202	0.00	0.00
ATOM	9235	C	THR	616	40.393	76.518	81.536	0.00	0.00
ATOM	9236	O	THR	616	39.706	77.512	81.581	0.00	0.00
ATOM	9237	N	HID	617	41.366	76.254	80.667	0.00	0.00
ATOM	9238	H	HID	617	41.806	75.345	80.673	0.00	0.00
ATOM	9239	CA	HID	617	41.856	77.286	79.740	0.00	0.00
ATOM	9240	HA	HID	617	41.264	78.189	79.884	0.00	0.00
ATOM	9241	CB	HID	617	43.379	77.456	80.047	0.00	0.00
ATOM	9242	HB2	HID	617	44.007	76.585	79.856	0.00	0.00
ATOM	9243	HB3	HID	617	43.702	78.211	79.330	0.00	0.00
ATOM	9244	CG	HID	617	43.575	78.043	81.389	0.00	0.00
ATOM	9245	ND1	HID	617	43.749	79.384	81.657	0.00	0.00
ATOM	9246	HD1	HID	617	43.966	80.100	80.978	0.00	0.00
ATOM	9247	CE1	HID	617	43.689	79.546	82.996	0.00	0.00
ATOM	9248	HE1	HID	617	43.856	80.473	83.524	0.00	0.00
ATOM	9249	NE2	HID	617	43.712	78.380	83.630	0.00	0.00
ATOM	9250	CD2	HID	617	43.560	77.433	82.641	0.00	0.00
ATOM	9251	HD2	HID	617	43.326	76.384	82.747	0.00	0.00
ATOM	9252	C	HID	617	41.509	77.021	78.238	0.00	0.00
ATOM	9253	O	HID	617	42.090	77.614	77.345	0.00	0.00
ATOM	9254	N	GLY	618	40.536	76.128	78.080	0.00	0.00

ATOM	9255	H	GLY	618	40.091	75.740	78.900	0.00	0.00
ATOM	9256	CA	GLY	618	39.779	76.089	76.814	0.00	0.00
ATOM	9257	HA2	GLY	618	38.972	75.393	77.045	0.00	0.00
ATOM	9258	HA3	GLY	618	39.268	77.036	76.641	0.00	0.00
ATOM	9259	C	GLY	618	40.584	75.621	75.596	0.00	0.00
ATOM	9260	O	GLY	618	40.504	76.233	74.521	0.00	0.00
ATOM	9261	N	ILE	619	41.409	74.561	75.798	0.00	0.00
ATOM	9262	H	ILE	619	41.414	74.201	76.742	0.00	0.00
ATOM	9263	CA	ILE	619	42.253	73.963	74.722	0.00	0.00
ATOM	9264	HA	ILE	619	41.844	74.267	73.758	0.00	0.00
ATOM	9265	CB	ILE	619	43.661	74.480	74.678	0.00	0.00
ATOM	9266	HB	ILE	619	44.072	74.047	73.767	0.00	0.00
ATOM	9267	CG2	ILE	619	43.678	75.980	74.491	0.00	0.00
ATOM	9268	1HG2	ILE	619	44.683	76.287	74.202	0.00	0.00
ATOM	9269	2HG2	ILE	619	42.985	76.221	73.685	0.00	0.00
ATOM	9270	3HG2	ILE	619	43.351	76.387	75.448	0.00	0.00
ATOM	9271	CG1	ILE	619	44.422	74.029	75.931	0.00	0.00
ATOM	9272	2HG1	ILE	619	44.251	72.952	75.938	0.00	0.00
ATOM	9273	3HG1	ILE	619	45.450	73.934	75.583	0.00	0.00
ATOM	9274	CD1	ILE	619	44.313	74.691	77.257	0.00	0.00
ATOM	9275	1HD1	ILE	619	44.687	75.711	77.342	0.00	0.00
ATOM	9276	2HD1	ILE	619	43.261	74.701	77.539	0.00	0.00
ATOM	9277	3HD1	ILE	619	44.930	74.132	77.961	0.00	0.00
ATOM	9278	C	ILE	619	42.158	72.451	74.491	0.00	0.00
ATOM	9279	O	ILE	619	42.661	71.871	73.528	0.00	0.00
ATOM	9280	N	ALA	620	41.353	71.768	75.313	0.00	0.00



ATOM	9281	H	ALA	620	40.985	72.228	76.133	0.00	0.00
ATOM	9282	CA	ALA	620	41.216	70.290	75.165	0.00	0.00
ATOM	9283	HA	ALA	620	42.252	69.952	75.205	0.00	0.00
ATOM	9284	CB	ALA	620	40.336	69.803	76.395	0.00	0.00
ATOM	9285	HB1	ALA	620	39.352	70.269	76.447	0.00	0.00
ATOM	9286	HB2	ALA	620	40.396	68.716	76.359	0.00	0.00
ATOM	9287	HB3	ALA	620	40.900	70.070	77.290	0.00	0.00
ATOM	9288	C	ALA	620	40.521	69.771	73.874	0.00	0.00
ATOM	9289	O	ALA	620	40.535	68.555	73.655	0.00	0.00
ATOM	9290	N	HIE	621	40.043	70.689	73.032	0.00	0.00
ATOM	9291	H	HIE	621	40.167	71.648	73.322	0.00	0.00
ATOM	9292	CA	HIE	621	39.502	70.289	71.712	0.00	0.00
ATOM	9293	HA	HIE	621	38.832	69.433	71.787	0.00	0.00
ATOM	9294	CB	HIE	621	38.629	71.456	71.256	0.00	0.00
ATOM	9295	HB2	HIE	621	38.032	71.229	70.373	0.00	0.00
ATOM	9296	HB3	HIE	621	37.849	71.504	72.015	0.00	0.00
ATOM	9297	CG	HIE	621	39.285	72.771	71.111	0.00	0.00
ATOM	9298	ND1	HIE	621	39.323	73.744	72.122	0.00	0.00
ATOM	9299	CE1	HIE	621	40.123	74.706	71.554	0.00	0.00
ATOM	9300	HE1	HIE	621	40.422	75.606	72.069	0.00	0.00
ATOM	9301	NE2	HIE	621	40.498	74.478	70.340	0.00	0.00
ATOM	9302	HE2	HIE	621	41.062	75.115	69.796	0.00	0.00
ATOM	9303	CD2	HIE	621	39.969	73.230	70.000	0.00	0.00
ATOM	9304	HD2	HIE	621	40.053	72.765	69.029	0.00	0.00
ATOM	9305	C	HIE	621	40.603	70.049	70.660	0.00	0.00
ATOM	9306	O	HIE	621	40.298	69.618	69.599	0.00	0.00

ATOM	9307	N	GLU	622	41.878	70.183	71.027	0.00	0.00
ATOM	9308	H	GLU	622	42.154	70.448	71.962	0.00	0.00
ATOM	9309	CA	GLU	622	43.039	69.917	70.131	0.00	0.00
ATOM	9310	HA	GLU	622	42.657	69.492	69.203	0.00	0.00
ATOM	9311	CB	GLU	622	43.646	71.276	69.683	0.00	0.00
ATOM	9312	HB2	GLU	622	43.572	72.057	70.439	0.00	0.00
ATOM	9313	HB3	GLU	622	44.721	71.265	69.501	0.00	0.00
ATOM	9314	CG	GLU	622	43.015	71.763	68.381	0.00	0.00
ATOM	9315	HG2	GLU	622	41.932	71.673	68.470	0.00	0.00
ATOM	9316	HG3	GLU	622	43.245	72.810	68.184	0.00	0.00
ATOM	9317	CD	GLU	622	43.420	70.993	67.152	0.00	0.00
ATOM	9318	OE1	GLU	622	42.667	70.029	66.859	0.00	0.00
ATOM	9319	OE2	GLU	622	44.451	71.248	66.482	0.00	0.00
ATOM	9320	C	GLU	622	44.187	69.134	70.668	0.00	0.00
ATOM	9321	O	GLU	622	44.838	68.453	69.888	0.00	0.00
ATOM	9322	N	VAL	623	44.379	69.132	71.996	0.00	0.00
ATOM	9323	H	VAL	623	43.779	69.695	72.582	0.00	0.00
ATOM	9324	CA	VAL	623	45.371	68.244	72.659	0.00	0.00
ATOM	9325	HA	VAL	623	45.434	67.284	72.145	0.00	0.00
ATOM	9326	CB	VAL	623	46.792	68.838	72.537	0.00	0.00
ATOM	9327	HB	VAL	623	46.868	69.276	71.542	0.00	0.00
ATOM	9328	CG1	VAL	623	47.061	70.077	73.477	0.00	0.00
ATOM	9329	1HG1	VAL	623	47.461	69.732	74.431	0.00	0.00
ATOM	9330	2HG1	VAL	623	47.666	70.871	73.040	0.00	0.00
ATOM	9331	3HG1	VAL	623	46.063	70.440	73.721	0.00	0.00
ATOM	9332	CG2	VAL	623	47.874	67.773	72.709	0.00	0.00

ATOM	9333	1HG2	VAL	623	48.818	68.209	72.383	0.00	0.00
ATOM	9334	2HG2	VAL	623	47.881	67.272	73.678	0.00	0.00
ATOM	9335	3HG2	VAL	623	47.746	67.019	71.932	0.00	0.00
ATOM	9336	C	VAL	623	44.940	67.875	74.099	0.00	0.00
ATOM	9337	O	VAL	623	44.321	68.697	74.787	0.00	0.00
ATOM	9338	N	GLY	624	45.405	66.699	74.619	0.00	0.00
ATOM	9339	H	GLY	624	45.845	66.043	73.989	0.00	0.00
ATOM	9340	CA	GLY	624	45.132	66.239	75.976	0.00	0.00
ATOM	9341	HA2	GLY	624	46.051	65.716	76.242	0.00	0.00
ATOM	9342	HA3	GLY	624	44.878	67.003	76.711	0.00	0.00
ATOM	9343	C	GLY	624	43.982	65.195	76.011	0.00	0.00
ATOM	9344	O	GLY	624	42.995	65.400	75.317	0.00	0.00
ATOM	9345	N	SER	625	44.168	64.147	76.812	0.00	0.00
ATOM	9346	H	SER	625	44.644	64.431	77.656	0.00	0.00
ATOM	9347	CA	SER	625	43.624	62.753	76.668	0.00	0.00
ATOM	9348	HA	SER	625	43.935	62.167	77.533	0.00	0.00
ATOM	9349	CB	SER	625	42.151	62.740	76.426	0.00	0.00
ATOM	9350	HB2	SER	625	41.632	63.262	77.231	0.00	0.00
ATOM	9351	HB3	SER	625	41.937	63.241	75.483	0.00	0.00
ATOM	9352	OG	SER	625	41.604	61.449	76.623	0.00	0.00
ATOM	9353	HG	SER	625	42.185	60.968	77.218	0.00	0.00
ATOM	9354	C	SER	625	44.261	62.060	75.427	0.00	0.00
ATOM	9355	O	SER	625	44.492	62.697	74.418	0.00	0.00
ATOM	9356	N	ILE	626	44.472	60.759	75.481	0.00	0.00
ATOM	9357	H	ILE	626	44.131	60.322	76.325	0.00	0.00
ATOM	9358	CA	ILE	626	44.592	59.918	74.263	0.00	0.00

ATOM	9359	HA	ILE	626	45.261	60.410	73.557	0.00	0.00
ATOM	9360	CB	ILE	626	45.301	58.562	74.613	0.00	0.00
ATOM	9361	HB	ILE	626	44.629	57.952	75.216	0.00	0.00
ATOM	9362	CG2	ILE	626	45.569	57.844	73.231	0.00	0.00
ATOM	9363	1HG2	ILE	626	44.631	57.792	72.679	0.00	0.00
ATOM	9364	2HG2	ILE	626	46.317	58.370	72.638	0.00	0.00
ATOM	9365	3HG2	ILE	626	45.876	56.824	73.463	0.00	0.00
ATOM	9366	CG1	ILE	626	46.518	58.772	75.519	0.00	0.00
ATOM	9367	2HG1	ILE	626	47.233	59.457	75.064	0.00	0.00
ATOM	9368	3HG1	ILE	626	46.284	59.188	76.499	0.00	0.00
ATOM	9369	CD1	ILE	626	47.239	57.474	75.867	0.00	0.00
ATOM	9370	1HD1	ILE	626	46.650	56.914	76.594	0.00	0.00
ATOM	9371	2HD1	ILE	626	47.503	56.858	75.008	0.00	0.00
ATOM	9372	3HD1	ILE	626	48.136	57.821	76.380	0.00	0.00
ATOM	9373	C	ILE	626	43.312	59.761	73.516	0.00	0.00
ATOM	9374	O	ILE	626	42.462	58.945	73.950	0.00	0.00
ATOM	9375	N	GLU	627	42.989	60.583	72.487	0.00	0.00
ATOM	9376	H	GLU	627	43.574	61.392	72.332	0.00	0.00
ATOM	9377	CA	GLU	627	41.645	60.571	71.881	0.00	0.00
ATOM	9378	HA	GLU	627	41.336	59.529	71.960	0.00	0.00
ATOM	9379	CB	GLU	627	40.893	61.447	72.879	0.00	0.00
ATOM	9380	HB2	GLU	627	40.765	60.859	73.788	0.00	0.00
ATOM	9381	HB3	GLU	627	41.320	62.445	72.973	0.00	0.00
ATOM	9382	CG	GLU	627	39.456	61.974	72.375	0.00	0.00
ATOM	9383	HG2	GLU	627	38.941	62.557	73.138	0.00	0.00
ATOM	9384	HG3	GLU	627	39.535	62.668	71.537	0.00	0.00

ATOM	9385	CD	GLU	627	38.497	60.883	71.981	0.00	0.00
ATOM	9386	OE1	GLU	627	37.286	61.161	71.837	0.00	0.00
ATOM	9387	OE2	GLU	627	38.848	59.722	72.060	0.00	0.00
ATOM	9388	C	GLU	627	41.415	61.157	70.469	0.00	0.00
ATOM	9389	O	GLU	627	42.185	61.970	69.948	0.00	0.00
ATOM	9390	N	VAL	628	40.506	60.510	69.713	0.00	0.00
ATOM	9391	H	VAL	628	39.835	59.947	70.216	0.00	0.00
ATOM	9392	CA	VAL	628	40.432	60.745	68.148	0.00	0.00
ATOM	9393	HA	VAL	628	41.288	60.198	67.753	0.00	0.00
ATOM	9394	CB	VAL	628	39.190	59.998	67.609	0.00	0.00
ATOM	9395	HB	VAL	628	39.173	60.199	66.538	0.00	0.00
ATOM	9396	CG1	VAL	628	39.519	58.512	67.649	0.00	0.00
ATOM	9397	1HG1	VAL	628	39.474	58.106	68.660	0.00	0.00
ATOM	9398	2HG1	VAL	628	38.759	57.948	67.109	0.00	0.00
ATOM	9399	3HG1	VAL	628	40.442	58.336	67.097	0.00	0.00
ATOM	9400	CG2	VAL	628	37.867	60.339	68.307	0.00	0.00
ATOM	9401	1HG2	VAL	628	37.774	60.087	69.363	0.00	0.00
ATOM	9402	2HG2	VAL	628	37.763	61.423	68.261	0.00	0.00
ATOM	9403	3HG2	VAL	628	36.982	59.799	67.968	0.00	0.00
ATOM	9404	C	VAL	628	40.477	62.239	67.709	0.00	0.00
ATOM	9405	O	VAL	628	39.762	63.054	68.294	0.00	0.00
ATOM	9406	N	GLY	629	41.174	62.547	66.622	0.00	0.00
ATOM	9407	H	GLY	629	41.737	61.792	66.259	0.00	0.00
ATOM	9408	CA	GLY	629	41.265	63.910	66.035	0.00	0.00
ATOM	9409	HA2	GLY	629	41.601	63.934	64.998	0.00	0.00
ATOM	9410	HA3	GLY	629	40.275	64.365	66.045	0.00	0.00

ATOM	9411	C	GLY	629	42.231	64.811	66.675	0.00	0.00
ATOM	9412	O	GLY	629	42.815	65.737	66.082	0.00	0.00
ATOM	9413	N	LYS	630	42.474	64.585	67.965	0.00	0.00
ATOM	9414	H	LYS	630	41.960	63.857	68.441	0.00	0.00
ATOM	9415	CA	LYS	630	43.467	65.402	68.734	0.00	0.00
ATOM	9416	HA	LYS	630	43.256	66.456	68.560	0.00	0.00
ATOM	9417	CB	LYS	630	43.273	65.186	70.230	0.00	0.00
ATOM	9418	HB2	LYS	630	43.292	64.100	70.316	0.00	0.00
ATOM	9419	HB3	LYS	630	44.129	65.542	70.804	0.00	0.00
ATOM	9420	CG	LYS	630	41.917	65.599	70.791	0.00	0.00
ATOM	9421	HG2	LYS	630	41.658	66.629	70.547	0.00	0.00
ATOM	9422	HG3	LYS	630	41.177	64.903	70.395	0.00	0.00
ATOM	9423	CD	LYS	630	41.865	65.478	72.365	0.00	0.00
ATOM	9424	HD2	LYS	630	42.253	64.514	72.693	0.00	0.00
ATOM	9425	HD3	LYS	630	42.455	66.337	72.685	0.00	0.00
ATOM	9426	CE	LYS	630	40.433	65.439	72.892	0.00	0.00
ATOM	9427	HE2	LYS	630	39.895	66.219	72.353	0.00	0.00
ATOM	9428	HE3	LYS	630	40.053	64.468	72.572	0.00	0.00
ATOM	9429	NZ	LYS	630	40.350	65.684	74.403	0.00	0.00
ATOM	9430	HZ1	LYS	630	39.366	65.588	74.613	0.00	0.00
ATOM	9431	HZ2	LYS	630	40.898	65.021	74.932	0.00	0.00
ATOM	9432	HZ3	LYS	630	40.537	66.654	74.615	0.00	0.00
ATOM	9433	C	LYS	630	44.902	65.203	68.282	0.00	0.00
ATOM	9434	O	LYS	630	45.209	64.199	67.685	0.00	0.00
ATOM	9435	N	LEU	631	45.813	66.119	68.556	0.00	0.00
ATOM	9436	H	LEU	631	45.506	66.953	69.037	0.00	0.00

ATOM	9437	CA	LEU	631	47.260	66.061	68.179	0.00	0.00
ATOM	9438	HA	LEU	631	47.402	65.958	67.104	0.00	0.00
ATOM	9439	CB	LEU	631	47.862	67.389	68.661	0.00	0.00
ATOM	9440	HB2	LEU	631	47.376	68.282	68.269	0.00	0.00
ATOM	9441	HB3	LEU	631	47.808	67.376	69.749	0.00	0.00
ATOM	9442	CG	LEU	631	49.405	67.536	68.353	0.00	0.00
ATOM	9443	HG	LEU	631	49.998	66.676	68.665	0.00	0.00
ATOM	9444	CD1	LEU	631	49.666	67.847	66.857	0.00	0.00
ATOM	9445	1HD1	LEU	631	48.912	68.569	66.543	0.00	0.00
ATOM	9446	2HD1	LEU	631	50.622	68.361	66.761	0.00	0.00
ATOM	9447	3HD1	LEU	631	49.622	66.907	66.308	0.00	0.00
ATOM	9448	CD2	LEU	631	50.061	68.743	69.133	0.00	0.00
ATOM	9449	1HD2	LEU	631	51.140	68.591	69.156	0.00	0.00
ATOM	9450	2HD2	LEU	631	49.884	69.608	68.495	0.00	0.00
ATOM	9451	3HD2	LEU	631	49.623	68.841	70.127	0.00	0.00
ATOM	9452	C	LEU	631	47.868	64.802	68.861	0.00	0.00
ATOM	9453	O	LEU	631	47.613	64.545	70.039	0.00	0.00
ATOM	9454	N	ALA	632	48.689	63.975	68.172	0.00	0.00
ATOM	9455	H	ALA	632	48.862	64.205	67.204	0.00	0.00
ATOM	9456	CA	ALA	632	49.383	62.745	68.752	0.00	0.00
ATOM	9457	HA	ALA	632	48.647	62.327	69.439	0.00	0.00
ATOM	9458	CB	ALA	632	49.595	61.847	67.585	0.00	0.00
ATOM	9459	HB1	ALA	632	50.409	62.297	67.016	0.00	0.00
ATOM	9460	HB2	ALA	632	49.892	60.898	68.032	0.00	0.00
ATOM	9461	HB3	ALA	632	48.681	61.764	66.997	0.00	0.00
ATOM	9462	C	ALA	632	50.595	63.013	69.610	0.00	0.00

ATOM	9463	O	ALA	632	51.721	62.479	69.373	0.00	0.00
ATOM	9464	N	ASP	633	50.332	63.861	70.625	0.00	0.00
ATOM	9465	H	ASP	633	49.385	64.206	70.548	0.00	0.00
ATOM	9466	CA	ASP	633	51.141	64.092	71.807	0.00	0.00
ATOM	9467	HA	ASP	633	52.147	64.128	71.388	0.00	0.00
ATOM	9468	CB	ASP	633	50.613	65.422	72.357	0.00	0.00
ATOM	9469	HB2	ASP	633	49.587	65.653	72.071	0.00	0.00
ATOM	9470	HB3	ASP	633	50.527	65.448	73.443	0.00	0.00
ATOM	9471	CG	ASP	633	51.374	66.629	71.839	0.00	0.00
ATOM	9472	OD1	ASP	633	51.726	66.632	70.714	0.00	0.00
ATOM	9473	OD2	ASP	633	51.525	67.673	72.553	0.00	0.00
ATOM	9474	C	ASP	633	50.958	62.941	72.761	0.00	0.00
ATOM	9475	O	ASP	633	49.890	62.731	73.233	0.00	0.00
ATOM	9476	N	LEU	634	51.995	62.174	73.103	0.00	0.00
ATOM	9477	H	LEU	634	52.873	62.402	72.659	0.00	0.00
ATOM	9478	CA	LEU	634	52.007	60.920	73.874	0.00	0.00
ATOM	9479	HA	LEU	634	51.189	60.946	74.594	0.00	0.00
ATOM	9480	CB	LEU	634	51.917	59.632	73.008	0.00	0.00
ATOM	9481	HB2	LEU	634	52.793	59.599	72.360	0.00	0.00
ATOM	9482	HB3	LEU	634	52.014	58.749	73.639	0.00	0.00
ATOM	9483	CG	LEU	634	50.629	59.542	72.260	0.00	0.00
ATOM	9484	HG	LEU	634	50.624	60.388	71.573	0.00	0.00
ATOM	9485	CD1	LEU	634	50.695	58.309	71.274	0.00	0.00
ATOM	9486	1HD1	LEU	634	49.807	58.173	70.658	0.00	0.00
ATOM	9487	2HD1	LEU	634	51.439	58.349	70.478	0.00	0.00
ATOM	9488	3HD1	LEU	634	50.937	57.422	71.859	0.00	0.00



ATOM	9489	CD2	LEU	634	49.255	59.435	72.977	0.00	0.00
ATOM	9490	1HD2	LEU	634	49.238	58.506	73.547	0.00	0.00
ATOM	9491	2HD2	LEU	634	49.229	60.288	73.654	0.00	0.00
ATOM	9492	3HD2	LEU	634	48.366	59.457	72.346	0.00	0.00
ATOM	9493	C	LEU	634	53.214	60.816	74.830	0.00	0.00
ATOM	9494	O	LEU	634	54.271	61.267	74.443	0.00	0.00
ATOM	9495	N	VAL	635	53.052	60.200	76.040	0.00	0.00
ATOM	9496	H	VAL	635	52.166	59.844	76.370	0.00	0.00
ATOM	9497	CA	VAL	635	54.207	59.822	76.861	0.00	0.00
ATOM	9498	HA	VAL	635	55.087	60.008	76.246	0.00	0.00
ATOM	9499	CB	VAL	635	54.441	60.591	78.180	0.00	0.00
ATOM	9500	HB	VAL	635	53.627	60.299	78.844	0.00	0.00
ATOM	9501	CG1	VAL	635	55.734	60.207	78.802	0.00	0.00
ATOM	9502	1HG1	VAL	635	55.943	60.846	79.659	0.00	0.00
ATOM	9503	2HG1	VAL	635	55.748	59.173	79.147	0.00	0.00
ATOM	9504	3HG1	VAL	635	56.566	60.301	78.104	0.00	0.00
ATOM	9505	CG2	VAL	635	54.465	62.135	77.968	0.00	0.00
ATOM	9506	1HG2	VAL	635	54.625	62.620	78.932	0.00	0.00
ATOM	9507	2HG2	VAL	635	55.226	62.421	77.242	0.00	0.00
ATOM	9508	3HG2	VAL	635	53.486	62.524	77.687	0.00	0.00
ATOM	9509	C	VAL	635	54.162	58.324	77.086	0.00	0.00
ATOM	9510	O	VAL	635	53.158	57.749	77.483	0.00	0.00
ATOM	9511	N	VAL	636	55.268	57.663	76.778	0.00	0.00
ATOM	9512	H	VAL	636	56.088	58.150	76.447	0.00	0.00
ATOM	9513	CA	VAL	636	55.392	56.205	76.767	0.00	0.00
ATOM	9514	HA	VAL	636	54.424	55.769	77.015	0.00	0.00

ATOM	9515	CB	VAL	636	55.885	55.745	75.368	0.00	0.00
ATOM	9516	HB	VAL	636	56.903	56.112	75.237	0.00	0.00
ATOM	9517	CG1	VAL	636	55.918	54.237	75.205	0.00	0.00
ATOM	9518	1HG1	VAL	636	56.201	53.996	74.181	0.00	0.00
ATOM	9519	2HG1	VAL	636	56.742	53.843	75.801	0.00	0.00
ATOM	9520	3HG1	VAL	636	54.911	53.933	75.490	0.00	0.00
ATOM	9521	CG2	VAL	636	55.164	56.423	74.142	0.00	0.00
ATOM	9522	1HG2	VAL	636	54.076	56.400	74.203	0.00	0.00
ATOM	9523	2HG2	VAL	636	55.522	57.442	73.998	0.00	0.00
ATOM	9524	3HG2	VAL	636	55.478	55.973	73.200	0.00	0.00
ATOM	9525	C	VAL	636	56.261	55.756	77.866	0.00	0.00
ATOM	9526	O	VAL	636	57.474	56.105	77.941	0.00	0.00
ATOM	9527	N	TRP	637	55.753	54.895	78.763	0.00	0.00
ATOM	9528	H	TRP	637	54.808	54.561	78.636	0.00	0.00
ATOM	9529	CA	TRP	637	56.317	54.620	80.075	0.00	0.00
ATOM	9530	HA	TRP	637	57.356	54.932	80.180	0.00	0.00
ATOM	9531	CB	TRP	637	55.575	55.046	81.322	0.00	0.00
ATOM	9532	HB2	TRP	637	54.756	54.349	81.498	0.00	0.00
ATOM	9533	HB3	TRP	637	56.306	54.951	82.125	0.00	0.00
ATOM	9534	CG	TRP	637	55.039	56.485	81.323	0.00	0.00
ATOM	9535	CD1	TRP	637	54.079	57.001	80.607	0.00	0.00
ATOM	9536	HD1	TRP	637	53.409	56.450	79.963	0.00	0.00
ATOM	9537	NE1	TRP	637	53.867	58.355	80.987	0.00	0.00
ATOM	9538	HE1	TRP	637	52.997	58.818	80.766	0.00	0.00
ATOM	9539	CE2	TRP	637	54.823	58.734	81.877	0.00	0.00
ATOM	9540	CZ2	TRP	637	55.102	59.936	82.465	0.00	0.00

ATOM	9541	HZ2	TRP	637	54.527	60.812	82.201	0.00	0.00
ATOM	9542	CH2	TRP	637	56.068	60.068	83.444	0.00	0.00
ATOM	9543	HH2	TRP	637	56.257	61.041	83.871	0.00	0.00
ATOM	9544	CZ3	TRP	637	56.828	58.906	83.739	0.00	0.00
ATOM	9545	HZ3	TRP	637	57.653	58.977	84.432	0.00	0.00
ATOM	9546	CE3	TRP	637	56.617	57.674	83.055	0.00	0.00
ATOM	9547	HE3	TRP	637	57.187	56.765	83.184	0.00	0.00
ATOM	9548	CD2	TRP	637	55.515	57.537	82.213	0.00	0.00
ATOM	9549	C	TRP	637	56.448	53.085	80.138	0.00	0.00
ATOM	9550	O	TRP	637	55.520	52.433	79.659	0.00	0.00
ATOM	9551	N	SER	638	57.507	52.562	80.686	0.00	0.00
ATOM	9552	H	SER	638	58.202	53.183	81.076	0.00	0.00
ATOM	9553	CA	SER	638	57.556	51.193	81.229	0.00	0.00
ATOM	9554	HA	SER	638	56.932	50.629	80.536	0.00	0.00
ATOM	9555	CB	SER	638	58.919	50.537	81.274	0.00	0.00
ATOM	9556	HB2	SER	638	59.510	51.153	81.952	0.00	0.00
ATOM	9557	HB3	SER	638	58.805	49.563	81.749	0.00	0.00
ATOM	9558	OG	SER	638	59.364	50.338	79.958	0.00	0.00
ATOM	9559	HG	SER	638	59.095	49.441	79.749	0.00	0.00
ATOM	9560	C	SER	638	56.949	51.130	82.563	0.00	0.00
ATOM	9561	O	SER	638	57.332	52.045	83.355	0.00	0.00
ATOM	9562	N	PRO	639	56.117	50.167	83.016	0.00	0.00
ATOM	9563	CD	PRO	639	55.739	48.917	82.234	0.00	0.00
ATOM	9564	HD2	PRO	639	56.602	48.254	82.177	0.00	0.00
ATOM	9565	HD3	PRO	639	55.386	49.030	81.209	0.00	0.00
ATOM	9566	CG	PRO	639	54.711	48.220	83.063	0.00	0.00

ATOM	9567	HG2 PRO	639	53.718	48.483	82.697	0.00	0.00
ATOM	9568	HG3 PRO	639	54.746	47.131	83.025	0.00	0.00
ATOM	9569	CB PRO	639	54.849	48.710	84.472	0.00	0.00
ATOM	9570	HB2 PRO	639	53.980	48.766	85.127	0.00	0.00
ATOM	9571	HB3 PRO	639	55.618	48.134	84.987	0.00	0.00
ATOM	9572	CA PRO	639	55.448	50.197	84.326	0.00	0.00
ATOM	9573	HA PRO	639	54.646	50.934	84.271	0.00	0.00
ATOM	9574	C PRO	639	56.432	50.475	85.493	0.00	0.00
ATOM	9575	O PRO	639	56.065	51.279	86.308	0.00	0.00
ATOM	9576	N ALA	640	57.597	49.803	85.648	0.00	0.00
ATOM	9577	H ALA	640	57.710	49.026	85.014	0.00	0.00
ATOM	9578	CA ALA	640	58.584	49.975	86.692	0.00	0.00
ATOM	9579	HA ALA	640	58.266	49.535	87.637	0.00	0.00
ATOM	9580	CB ALA	640	59.833	49.126	86.251	0.00	0.00
ATOM	9581	HB1 ALA	640	60.816	49.347	86.667	0.00	0.00
ATOM	9582	HB2 ALA	640	59.671	48.075	86.489	0.00	0.00
ATOM	9583	HB3 ALA	640	59.939	49.249	85.174	0.00	0.00
ATOM	9584	C ALA	640	59.107	51.420	86.886	0.00	0.00
ATOM	9585	O ALA	640	59.736	51.655	87.911	0.00	0.00
ATOM	9586	N PHE	641	58.843	52.263	85.941	0.00	0.00
ATOM	9587	H PHE	641	58.289	52.033	85.128	0.00	0.00
ATOM	9588	CA PHE	641	59.299	53.668	85.854	0.00	0.00
ATOM	9589	HA PHE	641	59.523	53.958	86.880	0.00	0.00
ATOM	9590	CB PHE	641	60.494	53.836	84.848	0.00	0.00
ATOM	9591	HB2 PHE	641	60.154	53.903	83.815	0.00	0.00
ATOM	9592	HB3 PHE	641	60.867	54.839	85.058	0.00	0.00

ATOM	9593	CG	PHE	641	61.590	52.779	84.921	0.00	0.00
ATOM	9594	CD1	PHE	641	62.015	52.020	83.853	0.00	0.00
ATOM	9595	HD1	PHE	641	61.361	51.889	83.004	0.00	0.00
ATOM	9596	CE1	PHE	641	63.157	51.192	83.965	0.00	0.00
ATOM	9597	HE1	PHE	641	63.434	50.427	83.255	0.00	0.00
ATOM	9598	CZ	PHE	641	63.977	51.330	85.112	0.00	0.00
ATOM	9599	HZ	PHE	641	64.889	50.753	85.077	0.00	0.00
ATOM	9600	CE2	PHE	641	63.672	52.277	86.125	0.00	0.00
ATOM	9601	HE2	PHE	641	64.321	52.553	86.943	0.00	0.00
ATOM	9602	CD2	PHE	641	62.433	52.895	86.088	0.00	0.00
ATOM	9603	HD2	PHE	641	62.171	53.590	86.872	0.00	0.00
ATOM	9604	C	PHE	641	58.145	54.645	85.460	0.00	0.00
ATOM	9605	O	PHE	641	58.393	55.847	85.386	0.00	0.00
ATOM	9606	N	PHE	642	56.879	54.255	85.437	0.00	0.00
ATOM	9607	H	PHE	642	56.621	53.282	85.521	0.00	0.00
ATOM	9608	CA	PHE	642	55.673	55.169	85.288	0.00	0.00
ATOM	9609	HA	PHE	642	55.675	55.724	84.349	0.00	0.00
ATOM	9610	CB	PHE	642	54.428	54.231	85.193	0.00	0.00
ATOM	9611	HB2	PHE	642	54.457	53.668	84.260	0.00	0.00
ATOM	9612	HB3	PHE	642	54.473	53.510	86.009	0.00	0.00
ATOM	9613	CG	PHE	642	53.084	54.948	85.288	0.00	0.00
ATOM	9614	CD1	PHE	642	52.295	55.295	84.152	0.00	0.00
ATOM	9615	HD1	PHE	642	52.694	55.142	83.160	0.00	0.00
ATOM	9616	CE1	PHE	642	51.045	55.888	84.355	0.00	0.00
ATOM	9617	HE1	PHE	642	50.298	56.067	83.596	0.00	0.00
ATOM	9618	CZ	PHE	642	50.643	56.183	85.696	0.00	0.00

ATOM	9619	HZ	PHE	642	49.725	56.693	85.948	0.00	0.00
ATOM	9620	CE2	PHE	642	51.449	55.836	86.829	0.00	0.00
ATOM	9621	HE2	PHE	642	51.214	56.104	87.849	0.00	0.00
ATOM	9622	CD2	PHE	642	52.663	55.238	86.578	0.00	0.00
ATOM	9623	HD2	PHE	642	53.339	54.919	87.357	0.00	0.00
ATOM	9624	C	PHE	642	55.558	56.333	86.384	0.00	0.00
ATOM	9625	O	PHE	642	55.931	56.102	87.565	0.00	0.00
ATOM	9626	N	GLY	643	55.262	57.535	85.951	0.00	0.00
ATOM	9627	H	GLY	643	54.966	57.637	84.991	0.00	0.00
ATOM	9628	CA	GLY	643	55.493	58.841	86.628	0.00	0.00
ATOM	9629	HA2	GLY	643	55.209	59.682	85.995	0.00	0.00
ATOM	9630	HA3	GLY	643	54.865	58.860	87.519	0.00	0.00
ATOM	9631	C	GLY	643	56.883	59.120	87.081	0.00	0.00
ATOM	9632	O	GLY	643	57.132	60.281	87.509	0.00	0.00
ATOM	9633	N	VAL	644	57.771	58.098	87.115	0.00	0.00
ATOM	9634	H	VAL	644	57.524	57.152	86.863	0.00	0.00
ATOM	9635	CA	VAL	644	59.179	58.385	87.586	0.00	0.00
ATOM	9636	HA	VAL	644	59.144	59.063	88.439	0.00	0.00
ATOM	9637	CB	VAL	644	59.919	57.220	88.245	0.00	0.00
ATOM	9638	HB	VAL	644	60.409	56.637	87.465	0.00	0.00
ATOM	9639	CG1	VAL	644	61.159	57.781	88.996	0.00	0.00
ATOM	9640	1HG1	VAL	644	61.759	58.373	88.304	0.00	0.00
ATOM	9641	2HG1	VAL	644	60.859	58.363	89.868	0.00	0.00
ATOM	9642	3HG1	VAL	644	61.773	56.989	89.424	0.00	0.00
ATOM	9643	CG2	VAL	644	59.096	56.304	89.185	0.00	0.00
ATOM	9644	1HG2	VAL	644	58.633	56.862	90.000	0.00	0.00

ATOM	9645	2HG2	VAL	644	58.430	55.658	88.612	0.00	0.00
ATOM	9646	3HG2	VAL	644	59.796	55.622	89.666	0.00	0.00
ATOM	9647	C	VAL	644	60.040	58.987	86.413	0.00	0.00
ATOM	9648	O	VAL	644	60.415	60.148	86.535	0.00	0.00
ATOM	9649	N	LYS	645	60.218	58.225	85.354	0.00	0.00
ATOM	9650	H	LYS	645	59.581	57.450	85.246	0.00	0.00
ATOM	9651	CA	LYS	645	60.954	58.582	84.155	0.00	0.00
ATOM	9652	HA	LYS	645	60.976	59.667	84.061	0.00	0.00
ATOM	9653	CB	LYS	645	62.467	58.045	84.282	0.00	0.00
ATOM	9654	HB2	LYS	645	62.488	56.963	84.414	0.00	0.00
ATOM	9655	HB3	LYS	645	62.866	58.196	83.280	0.00	0.00
ATOM	9656	CG	LYS	645	63.357	58.908	85.181	0.00	0.00
ATOM	9657	HG2	LYS	645	63.197	59.924	84.821	0.00	0.00
ATOM	9658	HG3	LYS	645	63.018	58.956	86.216	0.00	0.00
ATOM	9659	CD	LYS	645	64.835	58.454	85.188	0.00	0.00
ATOM	9660	HD2	LYS	645	64.927	57.456	85.617	0.00	0.00
ATOM	9661	HD3	LYS	645	65.134	58.358	84.145	0.00	0.00
ATOM	9662	CE	LYS	645	65.720	59.498	85.893	0.00	0.00
ATOM	9663	HE2	LYS	645	65.496	60.456	85.424	0.00	0.00
ATOM	9664	HE3	LYS	645	65.407	59.636	86.928	0.00	0.00
ATOM	9665	NZ	LYS	645	67.144	59.217	85.837	0.00	0.00
ATOM	9666	HZ1	LYS	645	67.701	59.918	86.306	0.00	0.00
ATOM	9667	HZ2	LYS	645	67.321	58.308	86.240	0.00	0.00
ATOM	9668	HZ3	LYS	645	67.483	59.236	84.886	0.00	0.00
ATOM	9669	C	LYS	645	60.385	57.934	82.908	0.00	0.00
ATOM	9670	O	LYS	645	60.380	56.714	82.820	0.00	0.00

ATOM	9671	N	PRO	646	59.981	58.710	81.871	0.00	0.00
ATOM	9672	CD	PRO	646	59.633	60.157	81.843	0.00	0.00
ATOM	9673	HD2	PRO	646	60.437	60.817	82.168	0.00	0.00
ATOM	9674	HD3	PRO	646	58.679	60.306	82.349	0.00	0.00
ATOM	9675	CG	PRO	646	59.302	60.445	80.363	0.00	0.00
ATOM	9676	HG2	PRO	646	58.487	61.161	80.261	0.00	0.00
ATOM	9677	HG3	PRO	646	60.251	60.797	79.959	0.00	0.00
ATOM	9678	CB	PRO	646	58.847	59.097	79.779	0.00	0.00
ATOM	9679	HB2	PRO	646	57.776	58.944	79.918	0.00	0.00
ATOM	9680	HB3	PRO	646	59.178	58.932	78.754	0.00	0.00
ATOM	9681	CA	PRO	646	59.620	58.013	80.611	0.00	0.00
ATOM	9682	HA	PRO	646	58.959	57.213	80.946	0.00	0.00
ATOM	9683	C	PRO	646	60.755	57.375	79.776	0.00	0.00
ATOM	9684	O	PRO	646	61.830	57.889	79.782	0.00	0.00
ATOM	9685	N	ALA	647	60.378	56.410	78.840	0.00	0.00
ATOM	9686	H	ALA	647	59.385	56.414	78.654	0.00	0.00
ATOM	9687	CA	ALA	647	61.282	55.911	77.845	0.00	0.00
ATOM	9688	HA	ALA	647	62.313	55.817	78.186	0.00	0.00
ATOM	9689	CB	ALA	647	60.845	54.538	77.515	0.00	0.00
ATOM	9690	HB1	ALA	647	61.668	54.051	76.992	0.00	0.00
ATOM	9691	HB2	ALA	647	60.652	54.031	78.461	0.00	0.00
ATOM	9692	HB3	ALA	647	59.973	54.572	76.863	0.00	0.00
ATOM	9693	C	ALA	647	61.275	56.835	76.565	0.00	0.00
ATOM	9694	O	ALA	647	62.127	56.709	75.702	0.00	0.00
ATOM	9695	N	THR	648	60.221	57.648	76.243	0.00	0.00
ATOM	9696	H	THR	648	59.563	57.744	77.003	0.00	0.00



ATOM	9697	CA	THR	648	60.053	58.448	74.925	0.00	0.00
ATOM	9698	HA	THR	648	60.999	58.895	74.621	0.00	0.00
ATOM	9699	CB	THR	648	59.641	57.451	73.802	0.00	0.00
ATOM	9700	HB	THR	648	58.927	56.811	74.320	0.00	0.00
ATOM	9701	CG2	THR	648	59.133	58.039	72.503	0.00	0.00
ATOM	9702	1HG2	THR	648	60.014	58.223	71.888	0.00	0.00
ATOM	9703	2HG2	THR	648	58.560	57.198	72.110	0.00	0.00
ATOM	9704	3HG2	THR	648	58.573	58.968	72.603	0.00	0.00
ATOM	9705	OG1	THR	648	60.733	56.614	73.483	0.00	0.00
ATOM	9706	HG1	THR	648	61.231	56.666	74.302	0.00	0.00
ATOM	9707	C	THR	648	58.951	59.457	75.054	0.00	0.00
ATOM	9708	O	THR	648	57.911	59.167	75.585	0.00	0.00
ATOM	9709	N	VAL	649	59.175	60.643	74.460	0.00	0.00
ATOM	9710	H	VAL	649	59.976	60.885	73.895	0.00	0.00
ATOM	9711	CA	VAL	649	58.080	61.618	74.504	0.00	0.00
ATOM	9712	HA	VAL	649	57.232	61.330	75.126	0.00	0.00
ATOM	9713	CB	VAL	649	58.424	62.913	75.203	0.00	0.00
ATOM	9714	HB	VAL	649	59.342	63.297	74.758	0.00	0.00
ATOM	9715	CG1	VAL	649	57.308	63.947	75.164	0.00	0.00
ATOM	9716	1HG1	VAL	649	56.387	63.554	75.595	0.00	0.00
ATOM	9717	2HG1	VAL	649	57.583	64.807	75.776	0.00	0.00
ATOM	9718	3HG1	VAL	649	57.136	64.309	74.151	0.00	0.00
ATOM	9719	CG2	VAL	649	58.715	62.627	76.612	0.00	0.00
ATOM	9720	1HG2	VAL	649	57.862	62.135	77.079	0.00	0.00
ATOM	9721	2HG2	VAL	649	59.513	61.885	76.622	0.00	0.00
ATOM	9722	3HG2	VAL	649	59.017	63.508	77.179	0.00	0.00

ATOM	9723	C	VAL	649	57.758	62.047	73.036	0.00	0.00
ATOM	9724	O	VAL	649	58.692	62.258	72.290	0.00	0.00
ATOM	9725	N	ILE	650	56.480	61.962	72.629	0.00	0.00
ATOM	9726	H	ILE	650	55.792	61.725	73.330	0.00	0.00
ATOM	9727	CA	ILE	650	56.135	62.159	71.282	0.00	0.00
ATOM	9728	HA	ILE	650	57.027	62.231	70.660	0.00	0.00
ATOM	9729	CB	ILE	650	55.271	60.922	70.730	0.00	0.00
ATOM	9730	HB	ILE	650	54.384	60.892	71.363	0.00	0.00
ATOM	9731	CG2	ILE	650	54.893	61.095	69.248	0.00	0.00
ATOM	9732	1HG2	ILE	650	54.513	62.116	69.218	0.00	0.00
ATOM	9733	2HG2	ILE	650	55.789	60.899	68.658	0.00	0.00
ATOM	9734	3HG2	ILE	650	54.084	60.451	68.904	0.00	0.00
ATOM	9735	CG1	ILE	650	56.012	59.557	70.983	0.00	0.00
ATOM	9736	2HG1	ILE	650	57.041	59.572	70.626	0.00	0.00
ATOM	9737	3HG1	ILE	650	56.163	59.393	72.050	0.00	0.00
ATOM	9738	CD1	ILE	650	55.351	58.283	70.467	0.00	0.00
ATOM	9739	1HD1	ILE	650	54.336	58.234	70.861	0.00	0.00
ATOM	9740	2HD1	ILE	650	55.337	58.221	69.379	0.00	0.00
ATOM	9741	3HD1	ILE	650	55.849	57.432	70.933	0.00	0.00
ATOM	9742	C	ILE	650	55.378	63.507	71.172	0.00	0.00
ATOM	9743	O	ILE	650	54.486	63.867	72.079	0.00	0.00
ATOM	9744	N	LYS	651	55.752	64.217	70.128	0.00	0.00
ATOM	9745	H	LYS	651	56.514	63.824	69.596	0.00	0.00
ATOM	9746	CA	LYS	651	55.110	65.520	69.749	0.00	0.00
ATOM	9747	HA	LYS	651	54.242	65.722	70.377	0.00	0.00
ATOM	9748	CB	LYS	651	56.063	66.767	69.822	0.00	0.00

ATOM	9749	HB2	LYS	651	57.015	66.540	69.342	0.00	0.00
ATOM	9750	HB3	LYS	651	55.562	67.593	69.317	0.00	0.00
ATOM	9751	CG	LYS	651	56.339	67.153	71.255	0.00	0.00
ATOM	9752	HG2	LYS	651	57.005	68.013	71.185	0.00	0.00
ATOM	9753	HG3	LYS	651	56.835	66.388	71.852	0.00	0.00
ATOM	9754	CD	LYS	651	55.235	67.577	72.110	0.00	0.00
ATOM	9755	HD2	LYS	651	54.498	66.780	72.204	0.00	0.00
ATOM	9756	HD3	LYS	651	55.713	67.673	73.085	0.00	0.00
ATOM	9757	CE	LYS	651	54.502	68.925	71.778	0.00	0.00
ATOM	9758	HE2	LYS	651	54.157	69.494	72.642	0.00	0.00
ATOM	9759	HE3	LYS	651	55.282	69.528	71.313	0.00	0.00
ATOM	9760	NZ	LYS	651	53.370	68.747	70.826	0.00	0.00
ATOM	9761	HZ1	LYS	651	53.654	68.253	69.992	0.00	0.00
ATOM	9762	HZ2	LYS	651	52.690	68.070	71.140	0.00	0.00
ATOM	9763	HZ3	LYS	651	52.849	69.607	70.730	0.00	0.00
ATOM	9764	C	LYS	651	54.478	65.265	68.402	0.00	0.00
ATOM	9765	O	LYS	651	55.145	65.153	67.380	0.00	0.00
ATOM	9766	N	GLY	652	53.141	65.252	68.285	0.00	0.00
ATOM	9767	H	GLY	652	52.629	65.484	69.124	0.00	0.00
ATOM	9768	CA	GLY	652	52.448	65.303	66.938	0.00	0.00
ATOM	9769	HA2	GLY	652	51.376	65.456	67.065	0.00	0.00
ATOM	9770	HA3	GLY	652	52.940	66.136	66.436	0.00	0.00
ATOM	9771	C	GLY	652	52.588	64.105	66.150	0.00	0.00
ATOM	9772	O	GLY	652	52.416	64.178	64.935	0.00	0.00
ATOM	9773	N	GLY	653	53.005	62.977	66.783	0.00	0.00
ATOM	9774	H	GLY	653	53.037	62.991	67.793	0.00	0.00

ATOM	9775	CA	GLY	653	53.086	61.657	66.228	0.00	0.00
ATOM	9776	HA2	GLY	653	52.857	60.915	66.993	0.00	0.00
ATOM	9777	HA3	GLY	653	52.419	61.492	65.382	0.00	0.00
ATOM	9778	C	GLY	653	54.488	61.386	65.772	0.00	0.00
ATOM	9779	O	GLY	653	54.839	60.329	65.243	0.00	0.00
ATOM	9780	N	MET	654	55.387	62.313	65.964	0.00	0.00
ATOM	9781	H	MET	654	55.024	63.226	66.199	0.00	0.00
ATOM	9782	CA	MET	654	56.828	62.243	65.689	0.00	0.00
ATOM	9783	HA	MET	654	56.914	61.250	65.250	0.00	0.00
ATOM	9784	CB	MET	654	57.279	63.354	64.751	0.00	0.00
ATOM	9785	HB2	MET	654	56.546	63.304	63.946	0.00	0.00
ATOM	9786	HB3	MET	654	57.219	64.344	65.202	0.00	0.00
ATOM	9787	CG	MET	654	58.681	63.188	64.193	0.00	0.00
ATOM	9788	HG2	MET	654	59.319	63.310	65.068	0.00	0.00
ATOM	9789	HG3	MET	654	58.856	62.221	63.721	0.00	0.00
ATOM	9790	SD	MET	654	59.061	64.486	62.939	0.00	0.00
ATOM	9791	CE	MET	654	60.610	63.896	62.316	0.00	0.00
ATOM	9792	HE1	MET	654	60.436	62.892	61.929	0.00	0.00
ATOM	9793	HE2	MET	654	60.836	64.570	61.490	0.00	0.00
ATOM	9794	HE3	MET	654	61.391	64.078	63.055	0.00	0.00
ATOM	9795	C	MET	654	57.570	62.254	67.030	0.00	0.00
ATOM	9796	O	MET	654	57.215	62.970	67.956	0.00	0.00
ATOM	9797	N	ILE	655	58.664	61.472	67.170	0.00	0.00
ATOM	9798	H	ILE	655	58.963	60.920	66.379	0.00	0.00
ATOM	9799	CA	ILE	655	59.425	61.439	68.431	0.00	0.00
ATOM	9800	HA	ILE	655	58.709	61.382	69.251	0.00	0.00

ATOM	9801	CB	ILE	655	60.347	60.289	68.525	0.00	0.00
ATOM	9802	HB	ILE	655	61.070	60.360	67.712	0.00	0.00
ATOM	9803	CG2	ILE	655	61.033	60.339	69.864	0.00	0.00
ATOM	9804	1HG2	ILE	655	61.792	61.120	69.888	0.00	0.00
ATOM	9805	2HG2	ILE	655	60.318	60.295	70.686	0.00	0.00
ATOM	9806	3HG2	ILE	655	61.562	59.403	70.041	0.00	0.00
ATOM	9807	CG1	ILE	655	59.705	58.842	68.450	0.00	0.00
ATOM	9808	2HG1	ILE	655	60.475	58.113	68.702	0.00	0.00
ATOM	9809	3HG1	ILE	655	58.906	58.680	69.175	0.00	0.00
ATOM	9810	CD1	ILE	655	59.109	58.291	67.126	0.00	0.00
ATOM	9811	1HD1	ILE	655	58.920	57.221	67.211	0.00	0.00
ATOM	9812	2HD1	ILE	655	58.130	58.771	67.119	0.00	0.00
ATOM	9813	3HD1	ILE	655	59.756	58.481	66.270	0.00	0.00
ATOM	9814	C	ILE	655	60.256	62.763	68.599	0.00	0.00
ATOM	9815	O	ILE	655	61.127	63.003	67.802	0.00	0.00
ATOM	9816	N	ALA	656	60.041	63.493	69.707	0.00	0.00
ATOM	9817	H	ALA	656	59.407	63.095	70.386	0.00	0.00
ATOM	9818	CA	ALA	656	60.770	64.705	70.100	0.00	0.00
ATOM	9819	HA	ALA	656	61.066	65.236	69.195	0.00	0.00
ATOM	9820	CB	ALA	656	59.786	65.565	70.921	0.00	0.00
ATOM	9821	HB1	ALA	656	59.142	66.158	70.272	0.00	0.00
ATOM	9822	HB2	ALA	656	59.239	64.959	71.642	0.00	0.00
ATOM	9823	HB3	ALA	656	60.360	66.320	71.458	0.00	0.00
ATOM	9824	C	ALA	656	62.028	64.452	70.955	0.00	0.00
ATOM	9825	O	ALA	656	63.080	64.939	70.571	0.00	0.00
ATOM	9826	N	ILE	657	62.020	63.859	72.145	0.00	0.00

ATOM	9827	H	ILE	657	61.142	63.568	72.550	0.00	0.00
ATOM	9828	CA	ILE	657	63.285	63.638	72.955	0.00	0.00
ATOM	9829	HA	ILE	657	64.250	63.703	72.453	0.00	0.00
ATOM	9830	CB	ILE	657	63.314	64.723	74.088	0.00	0.00
ATOM	9831	HB	ILE	657	64.141	64.458	74.746	0.00	0.00
ATOM	9832	CG2	ILE	657	63.528	66.162	73.611	0.00	0.00
ATOM	9833	1HG2	ILE	657	64.492	66.219	73.105	0.00	0.00
ATOM	9834	2HG2	ILE	657	62.793	66.368	72.833	0.00	0.00
ATOM	9835	3HG2	ILE	657	63.438	66.799	74.491	0.00	0.00
ATOM	9836	CG1	ILE	657	62.099	64.622	74.988	0.00	0.00
ATOM	9837	2HG1	ILE	657	61.162	64.832	74.472	0.00	0.00
ATOM	9838	3HG1	ILE	657	62.009	63.599	75.355	0.00	0.00
ATOM	9839	CD1	ILE	657	62.195	65.354	76.264	0.00	0.00
ATOM	9840	1HD1	ILE	657	63.099	65.069	76.801	0.00	0.00
ATOM	9841	2HD1	ILE	657	62.109	66.426	76.085	0.00	0.00
ATOM	9842	3HD1	ILE	657	61.407	65.166	76.994	0.00	0.00
ATOM	9843	C	ILE	657	63.275	62.196	73.451	0.00	0.00
ATOM	9844	O	ILE	657	62.179	61.646	73.682	0.00	0.00
ATOM	9845	N	ALA	658	64.437	61.507	73.616	0.00	0.00
ATOM	9846	H	ALA	658	65.326	61.986	73.644	0.00	0.00
ATOM	9847	CA	ALA	658	64.427	60.167	74.126	0.00	0.00
ATOM	9848	HA	ALA	658	63.681	60.060	74.913	0.00	0.00
ATOM	9849	CB	ALA	658	64.050	59.167	72.960	0.00	0.00
ATOM	9850	HB1	ALA	658	64.765	59.263	72.143	0.00	0.00
ATOM	9851	HB2	ALA	658	63.916	58.093	73.083	0.00	0.00
ATOM	9852	HB3	ALA	658	63.092	59.551	72.608	0.00	0.00

ATOM	9853	C	ALA	658	65.765	59.737	74.716	0.00	0.00
ATOM	9854	O	ALA	658	66.783	60.350	74.302	0.00	0.00
ATOM	9855	N	PRO	659	65.838	58.763	75.637	0.00	0.00
ATOM	9856	CD	PRO	659	64.733	57.937	76.006	0.00	0.00
ATOM	9857	HD2	PRO	659	64.562	57.292	75.144	0.00	0.00
ATOM	9858	HD3	PRO	659	63.910	58.538	76.392	0.00	0.00
ATOM	9859	CG	PRO	659	65.258	57.054	77.134	0.00	0.00
ATOM	9860	HG2	PRO	659	64.566	57.168	77.969	0.00	0.00
ATOM	9861	HG3	PRO	659	65.340	56.020	76.798	0.00	0.00
ATOM	9862	CB	PRO	659	66.581	57.682	77.518	0.00	0.00
ATOM	9863	HB2	PRO	659	66.396	58.473	78.246	0.00	0.00
ATOM	9864	HB3	PRO	659	67.196	56.863	77.890	0.00	0.00
ATOM	9865	CA	PRO	659	67.104	58.344	76.272	0.00	0.00
ATOM	9866	HA	PRO	659	67.658	59.228	76.587	0.00	0.00
ATOM	9867	C	PRO	659	67.902	57.435	75.396	0.00	0.00
ATOM	9868	O	PRO	659	67.567	56.283	75.197	0.00	0.00
ATOM	9869	N	MET	660	68.973	58.012	74.789	0.00	0.00
ATOM	9870	H	MET	660	69.120	59.010	74.842	0.00	0.00
ATOM	9871	CA	MET	660	69.811	57.390	73.733	0.00	0.00
ATOM	9872	HA	MET	660	69.395	56.436	73.410	0.00	0.00
ATOM	9873	CB	MET	660	69.587	58.289	72.489	0.00	0.00
ATOM	9874	HB2	MET	660	68.537	58.246	72.201	0.00	0.00
ATOM	9875	HB3	MET	660	69.772	59.333	72.744	0.00	0.00
ATOM	9876	CG	MET	660	70.483	57.938	71.295	0.00	0.00
ATOM	9877	HG2	MET	660	70.388	58.704	70.526	0.00	0.00
ATOM	9878	HG3	MET	660	71.532	57.902	71.589	0.00	0.00

ATOM	9879	SD	MET	660	70.254	56.309	70.589	0.00	0.00
ATOM	9880	CE	MET	660	71.940	55.851	69.949	0.00	0.00
ATOM	9881	HE1	MET	660	72.258	56.644	69.272	0.00	0.00
ATOM	9882	HE2	MET	660	72.648	55.690	70.762	0.00	0.00
ATOM	9883	HE3	MET	660	71.740	54.993	69.307	0.00	0.00
ATOM	9884	C	MET	660	71.230	57.157	74.128	0.00	0.00
ATOM	9885	O	MET	660	71.886	57.993	74.771	0.00	0.00
ATOM	9886	N	GLY	661	71.730	55.917	73.912	0.00	0.00
ATOM	9887	H	GLY	661	71.055	55.258	73.551	0.00	0.00
ATOM	9888	CA	GLY	661	73.061	55.447	74.233	0.00	0.00
ATOM	9889	HA2	GLY	661	73.420	55.750	75.216	0.00	0.00
ATOM	9890	HA3	GLY	661	73.124	54.359	74.237	0.00	0.00
ATOM	9891	C	GLY	661	74.108	55.873	73.286	0.00	0.00
ATOM	9892	O	GLY	661	74.003	56.960	72.766	0.00	0.00
ATOM	9893	N	ASP	662	75.216	55.156	73.131	0.00	0.00
ATOM	9894	H	ASP	662	75.329	54.206	73.456	0.00	0.00
ATOM	9895	CA	ASP	662	76.385	55.665	72.349	0.00	0.00
ATOM	9896	HA	ASP	662	76.684	56.632	72.754	0.00	0.00
ATOM	9897	CB	ASP	662	77.499	54.584	72.467	0.00	0.00
ATOM	9898	HB2	ASP	662	77.621	54.368	73.528	0.00	0.00
ATOM	9899	HB3	ASP	662	77.226	53.615	72.051	0.00	0.00
ATOM	9900	CG	ASP	662	78.794	55.096	71.844	0.00	0.00
ATOM	9901	OD1	ASP	662	79.535	54.261	71.366	0.00	0.00
ATOM	9902	OD2	ASP	662	79.032	56.354	72.017	0.00	0.00
ATOM	9903	C	ASP	662	75.964	55.968	70.832	0.00	0.00
ATOM	9904	O	ASP	662	75.612	55.099	70.071	0.00	0.00



ATOM	9905	N	ILE	663	76.244	57.184	70.424	0.00	0.00
ATOM	9906	H	ILE	663	76.656	57.822	71.090	0.00	0.00
ATOM	9907	CA	ILE	663	75.876	57.670	69.107	0.00	0.00
ATOM	9908	HA	ILE	663	74.868	57.319	68.890	0.00	0.00
ATOM	9909	CB	ILE	663	75.938	59.243	69.178	0.00	0.00
ATOM	9910	HB	ILE	663	76.975	59.499	69.398	0.00	0.00
ATOM	9911	CG2	ILE	663	75.470	59.887	67.856	0.00	0.00
ATOM	9912	1HG2	ILE	663	76.066	59.468	67.045	0.00	0.00
ATOM	9913	2HG2	ILE	663	74.408	59.732	67.667	0.00	0.00
ATOM	9914	3HG2	ILE	663	75.781	60.930	67.926	0.00	0.00
ATOM	9915	CG1	ILE	663	75.088	59.909	70.324	0.00	0.00
ATOM	9916	2HG1	ILE	663	75.400	59.577	71.314	0.00	0.00
ATOM	9917	3HG1	ILE	663	75.270	60.981	70.245	0.00	0.00
ATOM	9918	CD1	ILE	663	73.591	59.581	70.211	0.00	0.00
ATOM	9919	1HD1	ILE	663	73.084	60.149	69.431	0.00	0.00
ATOM	9920	2HD1	ILE	663	73.567	58.508	70.020	0.00	0.00
ATOM	9921	3HD1	ILE	663	73.173	59.777	71.198	0.00	0.00
ATOM	9922	C	ILE	663	76.715	57.072	67.955	0.00	0.00
ATOM	9923	O	ILE	663	76.255	56.938	66.816	0.00	0.00
ATOM	9924	N	ASN	664	77.921	56.602	68.254	0.00	0.00
ATOM	9925	H	ASN	664	78.252	57.059	69.091	0.00	0.00
ATOM	9926	CA	ASN	664	78.875	55.984	67.259	0.00	0.00
ATOM	9927	HA	ASN	664	78.831	56.547	66.326	0.00	0.00
ATOM	9928	CB	ASN	664	80.349	56.080	67.737	0.00	0.00
ATOM	9929	HB2	ASN	664	80.524	57.125	67.994	0.00	0.00
ATOM	9930	HB3	ASN	664	80.375	55.455	68.629	0.00	0.00

ATOM	9931	CG	ASN	664	81.321	55.659	66.616	0.00	0.00
ATOM	9932	OD1	ASN	664	81.320	56.187	65.517	0.00	0.00
ATOM	9933	ND2	ASN	664	82.153	54.670	66.892	0.00	0.00
ATOM	9934	1HD2	ASN	664	82.749	54.359	66.139	0.00	0.00
ATOM	9935	2HD2	ASN	664	82.089	54.135	67.746	0.00	0.00
ATOM	9936	C	ASN	664	78.574	54.507	67.014	0.00	0.00
ATOM	9937	O	ASN	664	79.050	53.970	66.007	0.00	0.00
ATOM	9938	N	ALA	665	77.981	53.821	67.986	0.00	0.00
ATOM	9939	H	ALA	665	77.494	54.354	68.692	0.00	0.00
ATOM	9940	CA	ALA	665	77.947	52.380	68.128	0.00	0.00
ATOM	9941	HA	ALA	665	78.958	51.973	68.107	0.00	0.00
ATOM	9942	CB	ALA	665	77.237	52.182	69.481	0.00	0.00
ATOM	9943	HB1	ALA	665	77.209	51.100	69.613	0.00	0.00
ATOM	9944	HB2	ALA	665	77.814	52.630	70.290	0.00	0.00
ATOM	9945	HB3	ALA	665	76.242	52.612	69.367	0.00	0.00
ATOM	9946	C	ALA	665	77.298	51.603	66.971	0.00	0.00
ATOM	9947	O	ALA	665	76.525	52.027	66.091	0.00	0.00
ATOM	9948	N	SER	666	77.443	50.276	67.054	0.00	0.00
ATOM	9949	H	SER	666	78.068	49.816	67.700	0.00	0.00
ATOM	9950	CA	SER	666	76.651	49.351	66.235	0.00	0.00
ATOM	9951	HA	SER	666	76.710	49.706	65.206	0.00	0.00
ATOM	9952	CB	SER	666	77.248	47.980	66.422	0.00	0.00
ATOM	9953	HB2	SER	666	76.673	47.296	65.796	0.00	0.00
ATOM	9954	HB3	SER	666	78.304	47.871	66.176	0.00	0.00
ATOM	9955	OG	SER	666	77.069	47.597	67.758	0.00	0.00
ATOM	9956	HG	SER	666	77.828	47.976	68.207	0.00	0.00

ATOM	9957	C	SER	666	75.094	49.215	66.504	0.00	0.00
ATOM	9958	O	SER	666	74.285	48.956	65.683	0.00	0.00
ATOM	9959	N	ILE	667	74.703	49.441	67.728	0.00	0.00
ATOM	9960	H	ILE	667	75.446	49.601	68.394	0.00	0.00
ATOM	9961	CA	ILE	667	73.341	49.324	68.197	0.00	0.00
ATOM	9962	HA	ILE	667	72.543	49.296	67.455	0.00	0.00
ATOM	9963	CB	ILE	667	73.093	47.976	68.971	0.00	0.00
ATOM	9964	HB	ILE	667	72.088	48.135	69.360	0.00	0.00
ATOM	9965	CG2	ILE	667	72.904	46.954	67.806	0.00	0.00
ATOM	9966	1HG2	ILE	667	72.259	47.362	67.029	0.00	0.00
ATOM	9967	2HG2	ILE	667	73.845	46.783	67.282	0.00	0.00
ATOM	9968	3HG2	ILE	667	72.470	46.015	68.151	0.00	0.00
ATOM	9969	CG1	ILE	667	74.066	47.612	70.081	0.00	0.00
ATOM	9970	2HG1	ILE	667	75.079	47.447	69.714	0.00	0.00
ATOM	9971	3HG1	ILE	667	73.932	48.289	70.924	0.00	0.00
ATOM	9972	CD1	ILE	667	73.705	46.248	70.743	0.00	0.00
ATOM	9973	1HD1	ILE	667	73.974	45.393	70.123	0.00	0.00
ATOM	9974	2HD1	ILE	667	74.249	46.203	71.687	0.00	0.00
ATOM	9975	3HD1	ILE	667	72.642	46.376	70.949	0.00	0.00
ATOM	9976	C	ILE	667	73.120	50.470	69.174	0.00	0.00
ATOM	9977	O	ILE	667	74.098	51.008	69.698	0.00	0.00
ATOM	9978	N	PRO	668	71.872	50.872	69.489	0.00	0.00
ATOM	9979	CD	PRO	668	70.531	50.311	69.068	0.00	0.00
ATOM	9980	HD2	PRO	668	70.274	50.233	68.011	0.00	0.00
ATOM	9981	HD3	PRO	668	70.393	49.396	69.644	0.00	0.00
ATOM	9982	CG	PRO	668	69.447	51.221	69.686	0.00	0.00

ATOM	9983	HG2 PRO	668	68.606	51.319	69.000	0.00	0.00
ATOM	9984	HG3 PRO	668	69.107	50.885	70.666	0.00	0.00
ATOM	9985	CB PRO	668	70.203	52.555	69.820	0.00	0.00
ATOM	9986	HB2 PRO	668	70.304	53.016	68.837	0.00	0.00
ATOM	9987	HB3 PRO	668	69.778	53.252	70.541	0.00	0.00
ATOM	9988	CA PRO	668	71.575	52.100	70.317	0.00	0.00
ATOM	9989	HA PRO	668	72.299	52.896	70.142	0.00	0.00
ATOM	9990	C PRO	668	71.579	51.934	71.874	0.00	0.00
ATOM	9991	O PRO	668	71.379	52.856	72.646	0.00	0.00
ATOM	9992	N THR	669	71.795	50.692	72.355	0.00	0.00
ATOM	9993	H THR	669	71.963	49.936	71.706	0.00	0.00
ATOM	9994	CA THR	669	71.811	50.264	73.714	0.00	0.00
ATOM	9995	HA THR	669	71.042	50.889	74.169	0.00	0.00
ATOM	9996	CB THR	669	71.383	48.778	73.729	0.00	0.00
ATOM	9997	HB THR	669	71.398	48.575	74.800	0.00	0.00
ATOM	9998	CG2 THR	669	69.997	48.413	73.152	0.00	0.00
ATOM	9999	1HG2 THR	669	69.180	48.978	73.601	0.00	0.00
ATOM	10000	2HG2 THR	669	70.002	48.688	72.098	0.00	0.00
ATOM	10001	3HG2 THR	669	69.824	47.349	73.310	0.00	0.00
ATOM	10002	OG1 THR	669	72.308	48.033	73.021	0.00	0.00
TER	0	0						
ATOM	10003	HG1 THR	669	72.320	47.231	73.549	0.00	0.00
ATOM	10004	C THR	669	73.073	50.493	74.618	0.00	0.00
ATOM	10005	O THR	669	72.943	50.211	75.835	0.00	0.00
ATOM	10006	N PRO	670	74.283	50.952	74.165	0.00	0.00
ATOM	10007	CD PRO	670	74.714	51.024	72.784	0.00	0.00

ATOM	10008	HD2 PRO	670	74.584	52.015	72.349	0.00	0.00
ATOM	10009	HD3 PRO	670	74.118	50.271	72.269	0.00	0.00
ATOM	10010	CG PRO	670	76.180	50.592	72.830	0.00	0.00
ATOM	10011	HG2 PRO	670	76.220	49.525	73.049	0.00	0.00
ATOM	10012	HG3 PRO	670	76.731	50.880	71.935	0.00	0.00
ATOM	10013	CB PRO	670	76.714	51.338	74.030	0.00	0.00
ATOM	10014	HB2 PRO	670	77.669	50.977	74.409	0.00	0.00
ATOM	10015	HB3 PRO	670	76.757	52.354	73.637	0.00	0.00
ATOM	10016	CA PRO	670	75.517	51.123	75.009	0.00	0.00
ATOM	10017	HA PRO	670	75.742	50.132	75.404	0.00	0.00
ATOM	10018	C PRO	670	75.582	52.309	76.041	0.00	0.00
ATOM	10019	O PRO	670	75.169	53.439	75.762	0.00	0.00
ATOM	10020	N GLN	671	76.185	52.085	77.248	0.00	0.00
ATOM	10021	H GLN	671	76.501	51.134	77.372	0.00	0.00
ATOM	10022	CA GLN	671	76.115	53.067	78.337	0.00	0.00
ATOM	10023	HA GLN	671	75.119	53.508	78.377	0.00	0.00
ATOM	10024	CB GLN	671	76.411	52.436	79.720	0.00	0.00
ATOM	10025	HB2 GLN	671	77.368	51.939	79.558	0.00	0.00
ATOM	10026	HB3 GLN	671	76.477	53.290	80.394	0.00	0.00
ATOM	10027	CG GLN	671	75.375	51.394	80.128	0.00	0.00
ATOM	10028	HG2 GLN	671	75.438	50.674	79.312	0.00	0.00
ATOM	10029	HG3 GLN	671	75.538	50.885	81.078	0.00	0.00
ATOM	10030	CD GLN	671	73.975	52.001	80.111	0.00	0.00
ATOM	10031	OE1 GLN	671	73.646	53.095	80.608	0.00	0.00
ATOM	10032	NE2 GLN	671	73.026	51.361	79.488	0.00	0.00
ATOM	10033	1HE2 GLN	671	72.137	51.824	79.365	0.00	0.00

ATOM	10034	2HE2	GLN	671	73.143	50.417	79.149	0.00	0.00
ATOM	10035	C	GLN	671	77.115	54.269	78.019	0.00	0.00
ATOM	10036	O	GLN	671	78.052	54.014	77.252	0.00	0.00
ATOM	10037	N	PRO	672	76.966	55.530	78.486	0.00	0.00
ATOM	10038	CD	PRO	672	77.703	56.700	78.076	0.00	0.00
ATOM	10039	HD2	PRO	672	78.781	56.542	78.117	0.00	0.00
ATOM	10040	HD3	PRO	672	77.365	56.951	77.071	0.00	0.00
ATOM	10041	CG	PRO	672	77.390	57.880	78.963	0.00	0.00
ATOM	10042	HG2	PRO	672	78.264	58.317	79.445	0.00	0.00
ATOM	10043	HG3	PRO	672	76.928	58.725	78.453	0.00	0.00
ATOM	10044	CB	PRO	672	76.404	57.288	79.970	0.00	0.00
ATOM	10045	HB2	PRO	672	76.995	57.004	80.841	0.00	0.00
ATOM	10046	HB3	PRO	672	75.622	58.017	80.182	0.00	0.00
ATOM	10047	CA	PRO	672	75.852	56.012	79.320	0.00	0.00
ATOM	10048	HA	PRO	672	75.622	55.283	80.098	0.00	0.00
ATOM	10049	C	PRO	672	74.569	56.263	78.445	0.00	0.00
ATOM	10050	O	PRO	672	74.559	57.167	77.593	0.00	0.00
ATOM	10051	N	VAL	673	73.404	55.711	78.795	0.00	0.00
ATOM	10052	H	VAL	673	73.439	54.974	79.484	0.00	0.00
ATOM	10053	CA	VAL	673	72.064	56.148	78.359	0.00	0.00
ATOM	10054	HA	VAL	673	72.151	56.417	77.306	0.00	0.00
ATOM	10055	CB	VAL	673	70.979	55.027	78.498	0.00	0.00
ATOM	10056	HB	VAL	673	70.934	54.641	79.516	0.00	0.00
ATOM	10057	CG1	VAL	673	69.546	55.431	78.098	0.00	0.00
ATOM	10058	1HG1	VAL	673	68.786	54.654	78.178	0.00	0.00
ATOM	10059	2HG1	VAL	673	69.204	56.099	78.889	0.00	0.00

ATOM	10060	3HG1	VAL	673	69.542	55.881	77.105	0.00	0.00
ATOM	10061	CG2	VAL	673	71.276	53.873	77.524	0.00	0.00
ATOM	10062	1HG2	VAL	673	71.397	54.222	76.498	0.00	0.00
ATOM	10063	2HG2	VAL	673	72.247	53.396	77.657	0.00	0.00
ATOM	10064	3HG2	VAL	673	70.558	53.053	77.548	0.00	0.00
ATOM	10065	C	VAL	673	71.667	57.378	79.147	0.00	0.00
ATOM	10066	O	VAL	673	71.317	57.345	80.326	0.00	0.00
ATOM	10067	N	HIE	674	71.479	58.462	78.384	0.00	0.00
ATOM	10068	H	HIE	674	71.712	58.479	77.402	0.00	0.00
ATOM	10069	CA	HIE	674	70.913	59.779	78.844	0.00	0.00
ATOM	10070	HA	HIE	674	70.325	59.573	79.738	0.00	0.00
ATOM	10071	CB	HIE	674	72.010	60.799	79.237	0.00	0.00
ATOM	10072	HB2	HIE	674	71.467	61.708	79.495	0.00	0.00
ATOM	10073	HB3	HIE	674	72.575	60.477	80.112	0.00	0.00
ATOM	10074	CG	HIE	674	72.963	61.232	78.138	0.00	0.00
ATOM	10075	ND1	HIE	674	73.074	62.510	77.593	0.00	0.00
ATOM	10076	CE1	HIE	674	74.193	62.511	76.908	0.00	0.00
ATOM	10077	HE1	HIE	674	74.630	63.394	76.466	0.00	0.00
ATOM	10078	NE2	HIE	674	74.776	61.360	76.984	0.00	0.00
ATOM	10079	HE2	HIE	674	75.711	61.240	76.624	0.00	0.00
ATOM	10080	CD2	HIE	674	73.986	60.465	77.690	0.00	0.00
ATOM	10081	HD2	HIE	674	74.356	59.543	78.113	0.00	0.00
ATOM	10082	C	HIE	674	69.992	60.475	77.835	0.00	0.00
ATOM	10083	O	HIE	674	70.084	60.071	76.717	0.00	0.00
ATOM	10084	N	TYR	675	69.204	61.481	78.142	0.00	0.00
ATOM	10085	H	TYR	675	69.194	61.723	79.123	0.00	0.00

ATOM	10086	CA	TYR	675	68.156	62.035	77.274	0.00	0.00
ATOM	10087	HA	TYR	675	67.610	61.291	76.694	0.00	0.00
ATOM	10088	CB	TYR	675	67.124	62.744	78.107	0.00	0.00
ATOM	10089	HB2	TYR	675	67.338	62.725	79.176	0.00	0.00
ATOM	10090	HB3	TYR	675	66.909	63.805	77.981	0.00	0.00
ATOM	10091	CG	TYR	675	65.761	62.018	78.066	0.00	0.00
ATOM	10092	CD1	TYR	675	65.531	60.954	79.013	0.00	0.00
ATOM	10093	HD1	TYR	675	66.347	60.607	79.629	0.00	0.00
ATOM	10094	CE1	TYR	675	64.331	60.198	78.968	0.00	0.00
ATOM	10095	HE1	TYR	675	64.206	59.332	79.601	0.00	0.00
ATOM	10096	CZ	TYR	675	63.295	60.586	78.084	0.00	0.00
ATOM	10097	OH	TYR	675	62.110	59.907	78.109	0.00	0.00
ATOM	10098	HH	TYR	675	61.981	59.244	78.792	0.00	0.00
ATOM	10099	CE2	TYR	675	63.528	61.672	77.167	0.00	0.00
ATOM	10100	HE2	TYR	675	62.766	61.970	76.462	0.00	0.00
ATOM	10101	CD2	TYR	675	64.763	62.355	77.190	0.00	0.00
ATOM	10102	HD2	TYR	675	64.824	63.197	76.516	0.00	0.00
ATOM	10103	C	TYR	675	68.773	62.971	76.225	0.00	0.00
ATOM	10104	O	TYR	675	69.624	63.809	76.568	0.00	0.00
ATOM	10105	N	ARG	676	68.305	62.751	74.989	0.00	0.00
ATOM	10106	H	ARG	676	67.455	62.225	74.842	0.00	0.00
ATOM	10107	CA	ARG	676	68.766	63.548	73.877	0.00	0.00
ATOM	10108	HA	ARG	676	69.144	64.512	74.219	0.00	0.00
ATOM	10109	CB	ARG	676	69.835	62.699	73.116	0.00	0.00
ATOM	10110	HB2	ARG	676	69.304	61.962	72.514	0.00	0.00
ATOM	10111	HB3	ARG	676	70.347	63.328	72.388	0.00	0.00



ATOM	10112	CG	ARG	676	70.883	61.955	73.915	0.00	0.00
ATOM	10113	HG2	ARG	676	71.252	62.718	74.600	0.00	0.00
ATOM	10114	HG3	ARG	676	70.513	61.094	74.474	0.00	0.00
ATOM	10115	CD	ARG	676	72.113	61.496	73.142	0.00	0.00
ATOM	10116	HD2	ARG	676	72.762	62.331	72.877	0.00	0.00
ATOM	10117	HD3	ARG	676	71.701	61.004	72.262	0.00	0.00
ATOM	10118	NE	ARG	676	72.833	60.478	73.838	0.00	0.00
ATOM	10119	HE	ARG	676	72.297	59.675	74.132	0.00	0.00
ATOM	10120	CZ	ARG	676	74.161	60.347	73.990	0.00	0.00
ATOM	10121	NH1	ARG	676	74.736	59.284	74.505	0.00	0.00
ATOM	10122	1HH1	ARG	676	75.722	59.300	74.723	0.00	0.00
ATOM	10123	2HH1	ARG	676	74.248	58.412	74.356	0.00	0.00
ATOM	10124	NH2	ARG	676	74.939	61.383	73.882	0.00	0.00
ATOM	10125	1HH2	ARG	676	75.937	61.254	73.969	0.00	0.00
ATOM	10126	2HH2	ARG	676	74.545	62.295	73.698	0.00	0.00
ATOM	10127	C	ARG	676	67.588	63.989	72.929	0.00	0.00
ATOM	10128	O	ARG	676	66.620	63.178	72.835	0.00	0.00
ATOM	10129	N	PRO	677	67.712	65.076	72.141	0.00	0.00
ATOM	10130	CD	PRO	677	68.691	66.142	72.390	0.00	0.00
ATOM	10131	HD2	PRO	677	69.716	65.836	72.183	0.00	0.00
ATOM	10132	HD3	PRO	677	68.757	66.312	73.465	0.00	0.00
ATOM	10133	CG	PRO	677	68.338	67.307	71.501	0.00	0.00
ATOM	10134	HG2	PRO	677	67.837	68.078	72.086	0.00	0.00
ATOM	10135	HG3	PRO	677	69.241	67.703	71.036	0.00	0.00
ATOM	10136	CB	PRO	677	67.399	66.788	70.440	0.00	0.00
ATOM	10137	HB2	PRO	677	66.619	67.523	70.245	0.00	0.00

ATOM	10138	HB3	PRO	677	67.932	66.489	69.537	0.00	0.00
ATOM	10139	CA	PRO	677	66.790	65.460	71.008	0.00	0.00
ATOM	10140	HA	PRO	677	65.820	65.597	71.487	0.00	0.00
ATOM	10141	C	PRO	677	66.769	64.327	69.954	0.00	0.00
ATOM	10142	O	PRO	677	67.713	63.699	69.673	0.00	0.00
ATOM	10143	N	MET	678	65.564	64.174	69.376	0.00	0.00
ATOM	10144	H	MET	678	64.870	64.690	69.897	0.00	0.00
ATOM	10145	CA	MET	678	65.303	63.459	68.112	0.00	0.00
ATOM	10146	HA	MET	678	66.272	63.131	67.734	0.00	0.00
ATOM	10147	CB	MET	678	64.338	62.247	68.307	0.00	0.00
ATOM	10148	HB2	MET	678	63.457	62.656	68.802	0.00	0.00
ATOM	10149	HB3	MET	678	64.037	61.687	67.422	0.00	0.00
ATOM	10150	CG	MET	678	64.882	61.134	69.300	0.00	0.00
ATOM	10151	HG2	MET	678	64.744	61.480	70.325	0.00	0.00
ATOM	10152	HG3	MET	678	64.195	60.292	69.214	0.00	0.00
ATOM	10153	SD	MET	678	66.545	60.587	68.847	0.00	0.00
ATOM	10154	CE	MET	678	67.098	60.023	70.448	0.00	0.00
ATOM	10155	HE1	MET	678	66.532	60.492	71.253	0.00	0.00
ATOM	10156	HE2	MET	678	67.005	58.940	70.526	0.00	0.00
ATOM	10157	HE3	MET	678	68.176	60.182	70.479	0.00	0.00
ATOM	10158	C	MET	678	64.859	64.484	67.065	0.00	0.00
ATOM	10159	O	MET	678	64.575	65.665	67.303	0.00	0.00
ATOM	10160	N	PHE	679	64.620	64.020	65.801	0.00	0.00
ATOM	10161	H	PHE	679	64.807	63.039	65.649	0.00	0.00
ATOM	10162	CA	PHE	679	64.226	64.848	64.611	0.00	0.00
ATOM	10163	HA	PHE	679	64.991	65.609	64.460	0.00	0.00

ATOM	10164	CB	PHE	679	64.131	63.956	63.323	0.00	0.00
ATOM	10165	HB2	PHE	679	63.347	63.213	63.467	0.00	0.00
ATOM	10166	HB3	PHE	679	63.866	64.524	62.431	0.00	0.00
ATOM	10167	CG	PHE	679	65.386	63.201	63.047	0.00	0.00
ATOM	10168	CD1	PHE	679	65.546	61.886	63.523	0.00	0.00
ATOM	10169	HD1	PHE	679	64.740	61.335	63.983	0.00	0.00
ATOM	10170	CE1	PHE	679	66.784	61.211	63.418	0.00	0.00
ATOM	10171	HE1	PHE	679	66.913	60.239	63.870	0.00	0.00
ATOM	10172	CZ	PHE	679	67.889	61.804	62.683	0.00	0.00
ATOM	10173	HZ	PHE	679	68.849	61.309	62.682	0.00	0.00
ATOM	10174	CE2	PHE	679	67.738	63.087	62.102	0.00	0.00
ATOM	10175	HE2	PHE	679	68.612	63.619	61.757	0.00	0.00
ATOM	10176	CD2	PHE	679	66.442	63.734	62.366	0.00	0.00
ATOM	10177	HD2	PHE	679	66.437	64.775	62.079	0.00	0.00
ATOM	10178	C	PHE	679	62.823	65.488	64.859	0.00	0.00
ATOM	10179	O	PHE	679	62.633	66.535	64.277	0.00	0.00
ATOM	10180	N	GLY	680	61.935	65.020	65.749	0.00	0.00
ATOM	10181	H	GLY	680	62.039	64.121	66.197	0.00	0.00
ATOM	10182	CA	GLY	680	60.717	65.739	66.222	0.00	0.00
ATOM	10183	HA2	GLY	680	60.257	66.001	65.270	0.00	0.00
ATOM	10184	HA3	GLY	680	60.023	65.067	66.727	0.00	0.00
ATOM	10185	C	GLY	680	60.952	67.065	66.993	0.00	0.00
ATOM	10186	O	GLY	680	60.020	67.767	67.296	0.00	0.00
ATOM	10187	N	ALA	681	62.162	67.285	67.471	0.00	0.00
ATOM	10188	H	ALA	681	62.891	66.587	67.425	0.00	0.00
ATOM	10189	CA	ALA	681	62.590	68.502	68.209	0.00	0.00

ATOM	10190	HA	ALA	681	61.757	69.204	68.233	0.00	0.00
ATOM	10191	CB	ALA	681	62.941	68.080	69.611	0.00	0.00
ATOM	10192	HB1	ALA	681	63.212	68.957	70.199	0.00	0.00
ATOM	10193	HB2	ALA	681	62.195	67.497	70.152	0.00	0.00
ATOM	10194	HB3	ALA	681	63.884	67.535	69.648	0.00	0.00
ATOM	10195	C	ALA	681	63.653	69.409	67.569	0.00	0.00
ATOM	10196	O	ALA	681	64.297	70.246	68.180	0.00	0.00
ATOM	10197	N	LEU	682	63.772	69.238	66.272	0.00	0.00
ATOM	10198	H	LEU	682	63.133	68.607	65.811	0.00	0.00
ATOM	10199	CA	LEU	682	64.686	69.946	65.335	0.00	0.00
ATOM	10200	HA	LEU	682	65.359	70.567	65.926	0.00	0.00
ATOM	10201	CB	LEU	682	65.595	68.906	64.826	0.00	0.00
ATOM	10202	HB2	LEU	682	66.234	68.458	65.586	0.00	0.00
ATOM	10203	HB3	LEU	682	64.883	68.172	64.448	0.00	0.00
ATOM	10204	CG	LEU	682	66.457	69.246	63.617	0.00	0.00
ATOM	10205	HG	LEU	682	65.853	69.483	62.741	0.00	0.00
ATOM	10206	CD1	LEU	682	67.412	70.393	63.939	0.00	0.00
ATOM	10207	1HD1	LEU	682	68.258	70.527	63.266	0.00	0.00
ATOM	10208	2HD1	LEU	682	66.717	71.233	63.928	0.00	0.00
ATOM	10209	3HD1	LEU	682	67.883	70.312	64.919	0.00	0.00
ATOM	10210	CD2	LEU	682	67.140	67.920	63.224	0.00	0.00
ATOM	10211	1HD2	LEU	682	66.420	67.139	62.979	0.00	0.00
ATOM	10212	2HD2	LEU	682	67.611	67.931	62.241	0.00	0.00
ATOM	10213	3HD2	LEU	682	67.887	67.679	63.980	0.00	0.00
ATOM	10214	C	LEU	682	63.964	70.866	64.270	0.00	0.00
ATOM	10215	O	LEU	682	63.232	70.448	63.397	0.00	0.00

ATOM	10216	N	GLY	683	64.244	72.183	64.262	0.00	0.00
ATOM	10217	H	GLY	683	64.735	72.535	65.072	0.00	0.00
ATOM	10218	CA	GLY	683	64.112	73.071	63.084	0.00	0.00
ATOM	10219	HA2	GLY	683	64.369	74.039	63.513	0.00	0.00
ATOM	10220	HA3	GLY	683	64.800	72.845	62.269	0.00	0.00
ATOM	10221	C	GLY	683	62.702	73.164	62.513	0.00	0.00
ATOM	10222	O	GLY	683	61.723	73.378	63.259	0.00	0.00
ATOM	10223	N	SER	684	62.566	72.971	61.162	0.00	0.00
ATOM	10224	H	SER	684	63.384	72.735	60.618	0.00	0.00
ATOM	10225	CA	SER	684	61.347	73.075	60.391	0.00	0.00
ATOM	10226	HA	SER	684	61.056	74.088	60.668	0.00	0.00
ATOM	10227	CB	SER	684	61.567	73.158	58.837	0.00	0.00
ATOM	10228	HB2	SER	684	61.879	72.222	58.374	0.00	0.00
ATOM	10229	HB3	SER	684	60.756	73.540	58.217	0.00	0.00
ATOM	10230	OG	SER	684	62.532	74.111	58.607	0.00	0.00
ATOM	10231	HG	SER	684	62.233	74.837	59.159	0.00	0.00
ATOM	10232	C	SER	684	60.259	72.056	60.838	0.00	0.00
ATOM	10233	O	SER	684	59.046	72.304	60.607	0.00	0.00
ATOM	10234	N	ALA	685	60.733	70.991	61.514	0.00	0.00
ATOM	10235	H	ALA	685	61.738	70.894	61.534	0.00	0.00
ATOM	10236	CA	ALA	685	59.960	69.836	62.062	0.00	0.00
ATOM	10237	HA	ALA	685	59.144	69.642	61.366	0.00	0.00
ATOM	10238	CB	ALA	685	60.768	68.548	62.085	0.00	0.00
ATOM	10239	HB1	ALA	685	61.537	68.631	62.854	0.00	0.00
ATOM	10240	HB2	ALA	685	60.014	67.798	62.326	0.00	0.00
ATOM	10241	HB3	ALA	685	61.291	68.412	61.139	0.00	0.00

ATOM	10242	C	ALA	685	59.230	70.280	63.379	0.00	0.00
ATOM	10243	O	ALA	685	58.083	70.038	63.631	0.00	0.00
ATOM	10244	N	ARG	686	59.969	71.025	64.238	0.00	0.00
ATOM	10245	H	ARG	686	60.842	71.467	63.986	0.00	0.00
ATOM	10246	CA	ARG	686	59.478	71.373	65.607	0.00	0.00
ATOM	10247	HA	ARG	686	59.139	70.435	66.048	0.00	0.00
ATOM	10248	CB	ARG	686	60.668	71.975	66.417	0.00	0.00
ATOM	10249	HB2	ARG	686	61.409	71.202	66.213	0.00	0.00
ATOM	10250	HB3	ARG	686	61.077	72.896	66.001	0.00	0.00
ATOM	10251	CG	ARG	686	60.330	72.297	67.883	0.00	0.00
ATOM	10252	HG2	ARG	686	60.385	71.351	68.421	0.00	0.00
ATOM	10253	HG3	ARG	686	59.307	72.673	67.920	0.00	0.00
ATOM	10254	CD	ARG	686	61.291	73.319	68.458	0.00	0.00
ATOM	10255	HD2	ARG	686	61.438	74.121	67.733	0.00	0.00
ATOM	10256	HD3	ARG	686	60.858	73.855	69.303	0.00	0.00
ATOM	10257	NE	ARG	686	62.588	72.716	68.766	0.00	0.00
ATOM	10258	HE	ARG	686	62.922	71.947	68.204	0.00	0.00
ATOM	10259	CZ	ARG	686	63.165	72.861	69.954	0.00	0.00
ATOM	10260	NH1	ARG	686	62.864	73.875	70.689	0.00	0.00
ATOM	10261	1HH1	ARG	686	63.608	74.107	71.333	0.00	0.00
ATOM	10262	2HH1	ARG	686	62.330	74.683	70.402	0.00	0.00
ATOM	10263	NH2	ARG	686	64.078	71.961	70.304	0.00	0.00
ATOM	10264	1HH2	ARG	686	64.534	72.159	71.183	0.00	0.00
ATOM	10265	2HH2	ARG	686	64.498	71.263	69.708	0.00	0.00
ATOM	10266	C	ARG	686	58.303	72.381	65.609	0.00	0.00
ATOM	10267	O	ARG	686	57.408	72.269	66.402	0.00	0.00

ATOM	10268	N	HIE	687	58.406	73.327	64.701	0.00	0.00
ATOM	10269	H	HIE	687	59.319	73.545	64.327	0.00	0.00
ATOM	10270	CA	HIE	687	57.248	74.149	64.270	0.00	0.00
ATOM	10271	HA	HIE	687	56.930	74.819	65.069	0.00	0.00
ATOM	10272	CB	HIE	687	57.695	74.983	63.072	0.00	0.00
ATOM	10273	HB2	HIE	687	58.173	74.320	62.352	0.00	0.00
ATOM	10274	HB3	HIE	687	56.846	75.448	62.571	0.00	0.00
ATOM	10275	CG	HIE	687	58.635	76.176	63.469	0.00	0.00
ATOM	10276	ND1	HIE	687	60.003	76.394	63.155	0.00	0.00
ATOM	10277	CE1	HIE	687	60.200	77.635	63.694	0.00	0.00
ATOM	10278	HE1	HIE	687	61.148	78.151	63.668	0.00	0.00
ATOM	10279	NE2	HIE	687	59.108	78.130	64.284	0.00	0.00
ATOM	10280	HE2	HIE	687	58.937	79.052	64.659	0.00	0.00
ATOM	10281	CD2	HIE	687	58.102	77.263	64.105	0.00	0.00
ATOM	10282	HD2	HIE	687	57.081	77.365	64.441	0.00	0.00
ATOM	10283	C	HIE	687	56.004	73.429	63.777	0.00	0.00
ATOM	10284	O	HIE	687	54.910	73.896	64.092	0.00	0.00
ATOM	10285	N	HIE	688	56.105	72.248	63.110	0.00	0.00
ATOM	10286	H	HIE	688	57.004	72.106	62.670	0.00	0.00
ATOM	10287	CA	HIE	688	54.968	71.478	62.638	0.00	0.00
ATOM	10288	HA	HIE	688	54.284	72.194	62.183	0.00	0.00
ATOM	10289	CB	HIE	688	55.539	70.634	61.518	0.00	0.00
ATOM	10290	HB2	HIE	688	56.081	71.221	60.777	0.00	0.00
ATOM	10291	HB3	HIE	688	56.164	69.870	61.981	0.00	0.00
ATOM	10292	CG	HIE	688	54.426	69.909	60.850	0.00	0.00
ATOM	10293	ND1	HIE	688	53.661	70.402	59.771	0.00	0.00

ATOM	10294	CE1	HIE	688	52.860	69.376	59.437	0.00	0.00
ATOM	10295	HE1	HIE	688	52.074	69.487	58.705	0.00	0.00
ATOM	10296	NE2	HIE	688	53.023	68.318	60.189	0.00	0.00
ATOM	10297	HE2	HIE	688	52.227	67.751	60.445	0.00	0.00
ATOM	10298	CD2	HIE	688	54.051	68.580	61.082	0.00	0.00
ATOM	10299	HD2	HIE	688	54.555	67.914	61.767	0.00	0.00
ATOM	10300	C	HIE	688	54.294	70.657	63.685	0.00	0.00
ATOM	10301	O	HIE	688	53.065	70.365	63.657	0.00	0.00
ATOM	10302	N	CYS	689	55.148	70.215	64.628	0.00	0.00
ATOM	10303	H	CYS	689	56.080	70.570	64.470	0.00	0.00
ATOM	10304	CA	CYS	689	54.878	69.231	65.668	0.00	0.00
ATOM	10305	HA	CYS	689	54.128	68.525	65.311	0.00	0.00
ATOM	10306	CB	CYS	689	56.162	68.389	65.921	0.00	0.00
ATOM	10307	HB2	CYS	689	56.967	69.122	65.972	0.00	0.00
ATOM	10308	HB3	CYS	689	56.011	67.798	66.825	0.00	0.00
ATOM	10309	SG	CYS	689	56.432	67.149	64.636	0.00	0.00
ATOM	10310	HG	CYS	689	55.956	66.168	65.408	0.00	0.00
ATOM	10311	C	CYS	689	54.256	69.790	66.987	0.00	0.00
ATOM	10312	O	CYS	689	53.840	69.009	67.870	0.00	0.00
ATOM	10313	N	ARG	690	54.230	71.125	67.131	0.00	0.00
ATOM	10314	H	ARG	690	54.532	71.645	66.319	0.00	0.00
ATOM	10315	CA	ARG	690	53.651	71.921	68.202	0.00	0.00
ATOM	10316	HA	ARG	690	53.352	71.175	68.939	0.00	0.00
ATOM	10317	CB	ARG	690	54.690	72.779	68.768	0.00	0.00
ATOM	10318	HB2	ARG	690	54.279	73.209	69.682	0.00	0.00
ATOM	10319	HB3	ARG	690	55.469	72.046	68.979	0.00	0.00



ATOM	10320	CG	ARG	690	55.086	73.935	67.755	0.00	0.00
ATOM	10321	HG2	ARG	690	55.250	73.592	66.734	0.00	0.00
ATOM	10322	HG3	ARG	690	54.212	74.575	67.632	0.00	0.00
ATOM	10323	CD	ARG	690	56.213	74.744	68.349	0.00	0.00
ATOM	10324	HD2	ARG	690	57.165	74.214	68.345	0.00	0.00
ATOM	10325	HD3	ARG	690	56.465	75.520	67.626	0.00	0.00
ATOM	10326	NE	ARG	690	55.919	75.362	69.618	0.00	0.00
ATOM	10327	HE	ARG	690	56.406	74.983	70.417	0.00	0.00
ATOM	10328	CZ	ARG	690	54.950	76.183	69.854	0.00	0.00
ATOM	10329	NH1	ARG	690	54.265	76.822	68.935	0.00	0.00
ATOM	10330	1HH1	ARG	690	53.590	77.471	69.314	0.00	0.00
ATOM	10331	2HH1	ARG	690	54.516	76.803	67.957	0.00	0.00
ATOM	10332	NH2	ARG	690	54.588	76.583	71.069	0.00	0.00
ATOM	10333	1HH2	ARG	690	54.173	77.480	71.276	0.00	0.00
ATOM	10334	2HH2	ARG	690	54.959	76.042	71.837	0.00	0.00
ATOM	10335	C	ARG	690	52.365	72.673	67.639	0.00	0.00
ATOM	10336	O	ARG	690	52.203	72.772	66.452	0.00	0.00
ATOM	10337	N	LEU	691	51.566	73.163	68.629	0.00	0.00
ATOM	10338	H	LEU	691	51.899	72.930	69.554	0.00	0.00
ATOM	10339	CA	LEU	691	50.483	74.176	68.402	0.00	0.00
ATOM	10340	HA	LEU	691	50.560	74.496	67.362	0.00	0.00
ATOM	10341	CB	LEU	691	49.129	73.528	68.878	0.00	0.00
ATOM	10342	HB2	LEU	691	49.090	73.057	69.860	0.00	0.00
ATOM	10343	HB3	LEU	691	48.312	74.247	68.821	0.00	0.00
ATOM	10344	CG	LEU	691	48.668	72.400	67.955	0.00	0.00
ATOM	10345	HG	LEU	691	49.315	71.554	68.189	0.00	0.00

ATOM	10346	CD1	LEU	691	47.264	71.886	68.349	0.00	0.00
ATOM	10347	1HD1	LEU	691	47.247	71.602	69.401	0.00	0.00
ATOM	10348	2HD1	LEU	691	46.579	72.721	68.197	0.00	0.00
ATOM	10349	3HD1	LEU	691	46.951	71.109	67.651	0.00	0.00
ATOM	10350	CD2	LEU	691	48.586	72.810	66.440	0.00	0.00
ATOM	10351	1HD2	LEU	691	48.030	72.124	65.802	0.00	0.00
ATOM	10352	2HD2	LEU	691	48.177	73.812	66.307	0.00	0.00
ATOM	10353	3HD2	LEU	691	49.573	72.885	65.984	0.00	0.00
ATOM	10354	C	LEU	691	50.558	75.445	69.202	0.00	0.00
ATOM	10355	O	LEU	691	51.052	75.397	70.355	0.00	0.00
ATOM	10356	N	THR	692	49.991	76.581	68.721	0.00	0.00
ATOM	10357	H	THR	692	49.646	76.552	67.772	0.00	0.00
ATOM	10358	CA	THR	692	49.884	77.894	69.436	0.00	0.00
ATOM	10359	HA	THR	692	50.358	77.824	70.415	0.00	0.00
ATOM	10360	CB	THR	692	50.537	79.007	68.692	0.00	0.00
ATOM	10361	HB	THR	692	49.940	79.235	67.810	0.00	0.00
ATOM	10362	CG2	THR	692	50.659	80.349	69.472	0.00	0.00
ATOM	10363	1HG2	THR	692	51.498	80.853	68.991	0.00	0.00
ATOM	10364	2HG2	THR	692	49.847	81.076	69.502	0.00	0.00
ATOM	10365	3HG2	THR	692	50.862	80.205	70.533	0.00	0.00
ATOM	10366	OG1	THR	692	51.853	78.495	68.324	0.00	0.00
ATOM	10367	HG1	THR	692	52.295	79.063	67.690	0.00	0.00
ATOM	10368	C	THR	692	48.429	78.130	69.672	0.00	0.00
ATOM	10369	O	THR	692	47.578	78.072	68.801	0.00	0.00
ATOM	10370	N	PHE	693	48.110	78.493	70.931	0.00	0.00
ATOM	10371	H	PHE	693	48.834	78.396	71.628	0.00	0.00

ATOM	10372	CA	PHE	693	46.795	78.875	71.328	0.00	0.00
ATOM	10373	HA	PHE	693	46.066	78.679	70.542	0.00	0.00
ATOM	10374	CB	PHE	693	46.398	78.138	72.588	0.00	0.00
ATOM	10375	HB2	PHE	693	47.032	78.656	73.308	0.00	0.00
ATOM	10376	HB3	PHE	693	45.340	78.337	72.761	0.00	0.00
ATOM	10377	CG	PHE	693	46.662	76.696	72.554	0.00	0.00
ATOM	10378	CD1	PHE	693	47.840	76.113	73.163	0.00	0.00
ATOM	10379	HD1	PHE	693	48.537	76.771	73.662	0.00	0.00
ATOM	10380	CE1	PHE	693	48.103	74.727	72.915	0.00	0.00
ATOM	10381	HE1	PHE	693	48.974	74.246	73.335	0.00	0.00
ATOM	10382	CZ	PHE	693	47.169	74.058	72.206	0.00	0.00
ATOM	10383	HZ	PHE	693	47.513	73.045	72.059	0.00	0.00
ATOM	10384	CE2	PHE	693	46.031	74.648	71.553	0.00	0.00
ATOM	10385	HE2	PHE	693	45.356	74.031	70.978	0.00	0.00
ATOM	10386	CD2	PHE	693	45.778	76.011	71.750	0.00	0.00
ATOM	10387	HD2	PHE	693	44.934	76.490	71.274	0.00	0.00
ATOM	10388	C	PHE	693	46.745	80.431	71.484	0.00	0.00
ATOM	10389	O	PHE	693	47.431	81.055	72.304	0.00	0.00
ATOM	10390	N	LEU	694	45.812	81.083	70.739	0.00	0.00
ATOM	10391	H	LEU	694	45.414	80.511	70.008	0.00	0.00
ATOM	10392	CA	LEU	694	45.577	82.495	70.788	0.00	0.00
ATOM	10393	HA	LEU	694	46.281	82.974	71.468	0.00	0.00
ATOM	10394	CB	LEU	694	45.794	83.098	69.359	0.00	0.00
ATOM	10395	HB2	LEU	694	45.100	82.566	68.708	0.00	0.00
ATOM	10396	HB3	LEU	694	45.452	84.133	69.364	0.00	0.00
ATOM	10397	CG	LEU	694	47.253	82.913	68.753	0.00	0.00

ATOM	10398	HG	LEU	694	47.650	81.898	68.736	0.00	0.00
ATOM	10399	CD1	LEU	694	47.264	83.528	67.321	0.00	0.00
ATOM	10400	1HD1	LEU	694	46.582	84.354	67.122	0.00	0.00
ATOM	10401	2HD1	LEU	694	48.315	83.722	67.105	0.00	0.00
ATOM	10402	3HD1	LEU	694	46.890	82.734	66.675	0.00	0.00
ATOM	10403	CD2	LEU	694	48.433	83.488	69.596	0.00	0.00
ATOM	10404	1HD2	LEU	694	48.594	82.929	70.518	0.00	0.00
ATOM	10405	2HD2	LEU	694	49.361	83.431	69.027	0.00	0.00
ATOM	10406	3HD2	LEU	694	48.124	84.487	69.903	0.00	0.00
ATOM	10407	C	LEU	694	44.084	82.705	71.215	0.00	0.00
ATOM	10408	O	LEU	694	43.272	81.905	70.914	0.00	0.00
ATOM	10409	N	SER	695	43.762	83.858	71.776	0.00	0.00
ATOM	10410	H	SER	695	44.459	84.583	71.870	0.00	0.00
ATOM	10411	CA	SER	695	42.346	84.347	71.863	0.00	0.00
ATOM	10412	HA	SER	695	41.750	83.612	72.403	0.00	0.00
ATOM	10413	CB	SER	695	42.329	85.628	72.733	0.00	0.00
ATOM	10414	HB2	SER	695	41.407	86.205	72.802	0.00	0.00
ATOM	10415	HB3	SER	695	42.615	85.412	73.762	0.00	0.00
ATOM	10416	OG	SER	695	43.257	86.489	72.121	0.00	0.00
ATOM	10417	HG	SER	695	43.749	87.000	72.768	0.00	0.00
ATOM	10418	C	SER	695	41.715	84.539	70.492	0.00	0.00
ATOM	10419	O	SER	695	42.418	84.846	69.512	0.00	0.00
ATOM	10420	N	GLN	696	40.365	84.509	70.523	0.00	0.00
ATOM	10421	H	GLN	696	39.955	84.243	71.407	0.00	0.00
ATOM	10422	CA	GLN	696	39.439	84.796	69.401	0.00	0.00
ATOM	10423	HA	GLN	696	39.506	84.090	68.573	0.00	0.00

ATOM	10424	CB	GLN	696	38.004	84.641	69.928	0.00	0.00
ATOM	10425	HB2	GLN	696	37.894	85.188	70.865	0.00	0.00
ATOM	10426	HB3	GLN	696	37.308	84.996	69.168	0.00	0.00
ATOM	10427	CG	GLN	696	37.505	83.263	70.363	0.00	0.00
ATOM	10428	HG2	GLN	696	37.450	82.610	69.493	0.00	0.00
ATOM	10429	HG3	GLN	696	38.321	82.786	70.904	0.00	0.00
ATOM	10430	CD	GLN	696	36.220	83.168	71.220	0.00	0.00
ATOM	10431	OE1	GLN	696	35.402	84.092	71.307	0.00	0.00
ATOM	10432	NE2	GLN	696	36.037	82.050	71.855	0.00	0.00
ATOM	10433	1HE2	GLN	696	35.444	82.076	72.672	0.00	0.00
ATOM	10434	2HE2	GLN	696	36.759	81.346	71.902	0.00	0.00
ATOM	10435	C	GLN	696	39.667	86.239	68.911	0.00	0.00
ATOM	10436	O	GLN	696	39.781	86.517	67.735	0.00	0.00
ATOM	10437	N	ALA	697	39.855	87.189	69.851	0.00	0.00
ATOM	10438	H	ALA	697	39.751	86.903	70.814	0.00	0.00
ATOM	10439	CA	ALA	697	40.208	88.566	69.483	0.00	0.00
ATOM	10440	HA	ALA	697	39.477	88.921	68.757	0.00	0.00
ATOM	10441	CB	ALA	697	40.083	89.351	70.815	0.00	0.00
ATOM	10442	HB1	ALA	697	40.616	88.778	71.575	0.00	0.00
ATOM	10443	HB2	ALA	697	40.566	90.325	70.742	0.00	0.00
ATOM	10444	HB3	ALA	697	39.029	89.448	71.074	0.00	0.00
ATOM	10445	C	ALA	697	41.591	88.803	68.908	0.00	0.00
ATOM	10446	O	ALA	697	41.792	89.578	67.981	0.00	0.00
ATOM	10447	N	ALA	698	42.650	88.136	69.339	0.00	0.00
ATOM	10448	H	ALA	698	42.375	87.509	70.081	0.00	0.00
ATOM	10449	CA	ALA	698	43.951	88.143	68.659	0.00	0.00

ATOM	10450	HA	ALA	698	44.259	89.129	68.312	0.00	0.00
ATOM	10451	CB	ALA	698	45.095	87.675	69.649	0.00	0.00
ATOM	10452	HB1	ALA	698	44.995	86.597	69.776	0.00	0.00
ATOM	10453	HB2	ALA	698	46.010	87.734	69.060	0.00	0.00
ATOM	10454	HB3	ALA	698	45.066	88.369	70.489	0.00	0.00
ATOM	10455	C	ALA	698	43.972	87.368	67.327	0.00	0.00
ATOM	10456	O	ALA	698	44.662	87.803	66.365	0.00	0.00
ATOM	10457	N	ALA	699	43.229	86.262	67.193	0.00	0.00
ATOM	10458	H	ALA	699	42.714	85.933	67.997	0.00	0.00
ATOM	10459	CA	ALA	699	43.031	85.627	65.858	0.00	0.00
ATOM	10460	HA	ALA	699	44.031	85.583	65.428	0.00	0.00
ATOM	10461	CB	ALA	699	42.568	84.160	65.930	0.00	0.00
ATOM	10462	HB1	ALA	699	43.059	83.737	66.806	0.00	0.00
ATOM	10463	HB2	ALA	699	41.486	84.040	65.977	0.00	0.00
ATOM	10464	HB3	ALA	699	42.850	83.667	64.999	0.00	0.00
ATOM	10465	C	ALA	699	42.263	86.458	64.862	0.00	0.00
ATOM	10466	O	ALA	699	42.593	86.535	63.690	0.00	0.00
ATOM	10467	N	ALA	700	41.311	87.278	65.247	0.00	0.00
ATOM	10468	H	ALA	700	40.991	87.105	66.189	0.00	0.00
ATOM	10469	CA	ALA	700	40.563	88.298	64.463	0.00	0.00
ATOM	10470	HA	ALA	700	40.314	87.877	63.489	0.00	0.00
ATOM	10471	CB	ALA	700	39.265	88.807	65.129	0.00	0.00
ATOM	10472	HB1	ALA	700	39.418	89.389	66.039	0.00	0.00
ATOM	10473	HB2	ALA	700	38.589	89.384	64.498	0.00	0.00
ATOM	10474	HB3	ALA	700	38.668	87.967	65.484	0.00	0.00
ATOM	10475	C	ALA	700	41.445	89.541	64.102	0.00	0.00

ATOM	10476	O	ALA	700	41.030	90.290	63.151	0.00	0.00
ATOM	10477	N	ASN	701	42.632	89.696	64.688	0.00	0.00
ATOM	10478	H	ASN	701	42.708	89.184	65.555	0.00	0.00
ATOM	10479	CA	ASN	701	43.641	90.686	64.462	0.00	0.00
ATOM	10480	HA	ASN	701	43.316	91.622	64.007	0.00	0.00
ATOM	10481	CB	ASN	701	44.258	91.161	65.892	0.00	0.00
ATOM	10482	HB2	ASN	701	43.368	91.284	66.508	0.00	0.00
ATOM	10483	HB3	ASN	701	44.898	90.360	66.263	0.00	0.00
ATOM	10484	CG	ASN	701	45.067	92.413	65.792	0.00	0.00
ATOM	10485	OD1	ASN	701	44.970	93.313	64.999	0.00	0.00
ATOM	10486	ND2	ASN	701	46.016	92.450	66.637	0.00	0.00
ATOM	10487	1HD2	ASN	701	46.586	93.271	66.785	0.00	0.00
ATOM	10488	2HD2	ASN	701	46.061	91.728	67.342	0.00	0.00
ATOM	10489	C	ASN	701	44.737	90.081	63.536	0.00	0.00
ATOM	10490	O	ASN	701	45.572	90.817	62.989	0.00	0.00
ATOM	10491	N	GLY	702	44.882	88.772	63.403	0.00	0.00
ATOM	10492	H	GLY	702	44.349	88.230	64.068	0.00	0.00
ATOM	10493	CA	GLY	702	45.965	88.115	62.649	0.00	0.00
ATOM	10494	HA2	GLY	702	45.694	87.077	62.452	0.00	0.00
ATOM	10495	HA3	GLY	702	46.056	88.560	61.658	0.00	0.00
ATOM	10496	C	GLY	702	47.366	88.114	63.148	0.00	0.00
ATOM	10497	O	GLY	702	48.337	88.030	62.355	0.00	0.00
ATOM	10498	N	VAL	703	47.543	88.170	64.481	0.00	0.00
ATOM	10499	H	VAL	703	46.742	88.348	65.070	0.00	0.00
ATOM	10500	CA	VAL	703	48.889	88.309	65.128	0.00	0.00
ATOM	10501	HA	VAL	703	49.199	89.255	64.684	0.00	0.00

ATOM	10502	CB	VAL	703	48.897	88.487	66.644	0.00	0.00
ATOM	10503	HB	VAL	703	49.914	88.783	66.901	0.00	0.00
ATOM	10504	CG1	VAL	703	47.971	89.591	67.135	0.00	0.00
ATOM	10505	1HG1	VAL	703	48.206	90.581	66.743	0.00	0.00
ATOM	10506	2HG1	VAL	703	46.944	89.272	66.956	0.00	0.00
ATOM	10507	3HG1	VAL	703	48.178	89.623	68.205	0.00	0.00
ATOM	10508	CG2	VAL	703	48.608	87.193	67.408	0.00	0.00
ATOM	10509	1HG2	VAL	703	47.905	86.612	66.811	0.00	0.00
ATOM	10510	2HG2	VAL	703	49.521	86.639	67.628	0.00	0.00
ATOM	10511	3HG2	VAL	703	48.251	87.430	68.410	0.00	0.00
ATOM	10512	C	VAL	703	49.973	87.338	64.732	0.00	0.00
ATOM	10513	O	VAL	703	51.072	87.755	64.590	0.00	0.00
ATOM	10514	N	ALA	704	49.483	86.080	64.504	0.00	0.00
ATOM	10515	H	ALA	704	48.474	86.080	64.556	0.00	0.00
ATOM	10516	CA	ALA	704	50.225	84.954	63.982	0.00	0.00
ATOM	10517	HA	ALA	704	50.993	84.596	64.668	0.00	0.00
ATOM	10518	CB	ALA	704	49.169	83.833	63.765	0.00	0.00
ATOM	10519	HB1	ALA	704	48.633	83.690	64.703	0.00	0.00
ATOM	10520	HB2	ALA	704	48.465	84.051	62.962	0.00	0.00
ATOM	10521	HB3	ALA	704	49.705	82.916	63.521	0.00	0.00
ATOM	10522	C	ALA	704	50.948	85.345	62.662	0.00	0.00
ATOM	10523	O	ALA	704	52.134	85.052	62.475	0.00	0.00
ATOM	10524	N	GLU	705	50.302	86.083	61.707	0.00	0.00
ATOM	10525	H	GLU	705	49.338	86.314	61.899	0.00	0.00
ATOM	10526	CA	GLU	705	50.978	86.601	60.477	0.00	0.00
ATOM	10527	HA	GLU	705	51.787	85.926	60.195	0.00	0.00



ATOM	10528	CB	GLU	705	49.999	86.874	59.363	0.00	0.00
ATOM	10529	HB2	GLU	705	49.115	87.384	59.746	0.00	0.00
ATOM	10530	HB3	GLU	705	50.344	87.543	58.575	0.00	0.00
ATOM	10531	CG	GLU	705	49.527	85.540	58.826	0.00	0.00
ATOM	10532	HG2	GLU	705	50.388	85.075	58.345	0.00	0.00
ATOM	10533	HG3	GLU	705	49.144	84.811	59.540	0.00	0.00
ATOM	10534	CD	GLU	705	48.367	85.731	57.886	0.00	0.00
ATOM	10535	OE1	GLU	705	47.210	85.974	58.325	0.00	0.00
ATOM	10536	OE2	GLU	705	48.684	85.786	56.646	0.00	0.00
ATOM	10537	C	GLU	705	51.601	87.935	60.672	0.00	0.00
ATOM	10538	O	GLU	705	52.611	88.163	60.022	0.00	0.00
ATOM	10539	N	ARG	706	51.137	88.870	61.516	0.00	0.00
ATOM	10540	H	ARG	706	50.191	88.822	61.866	0.00	0.00
ATOM	10541	CA	ARG	706	51.850	90.193	61.758	0.00	0.00
ATOM	10542	HA	ARG	706	51.997	90.747	60.831	0.00	0.00
ATOM	10543	CB	ARG	706	50.944	91.008	62.702	0.00	0.00
ATOM	10544	HB2	ARG	706	50.860	90.374	63.584	0.00	0.00
ATOM	10545	HB3	ARG	706	51.468	91.939	62.920	0.00	0.00
ATOM	10546	CG	ARG	706	49.574	91.407	62.216	0.00	0.00
ATOM	10547	HG2	ARG	706	49.781	91.979	61.312	0.00	0.00
ATOM	10548	HG3	ARG	706	48.943	90.538	62.030	0.00	0.00
ATOM	10549	CD	ARG	706	48.846	92.348	63.196	0.00	0.00
ATOM	10550	HD2	ARG	706	48.803	91.943	64.207	0.00	0.00
ATOM	10551	HD3	ARG	706	49.471	93.223	63.380	0.00	0.00
ATOM	10552	NE	ARG	706	47.484	92.813	62.807	0.00	0.00
ATOM	10553	HE	ARG	706	46.774	92.124	63.012	0.00	0.00

ATOM	10554	CZ	ARG	706	47.274	93.853	62.059	0.00	0.00
ATOM	10555	NH1	ARG	706	46.101	94.044	61.594	0.00	0.00
ATOM	10556	1HH1	ARG	706	45.963	94.938	61.145	0.00	0.00
ATOM	10557	2HH1	ARG	706	45.334	93.388	61.621	0.00	0.00
ATOM	10558	NH2	ARG	706	48.202	94.766	61.915	0.00	0.00
ATOM	10559	1HH2	ARG	706	47.874	95.514	61.321	0.00	0.00
ATOM	10560	2HH2	ARG	706	49.156	94.747	62.245	0.00	0.00
ATOM	10561	C	ARG	706	53.214	89.933	62.360	0.00	0.00
ATOM	10562	O	ARG	706	54.088	90.691	61.970	0.00	0.00
ATOM	10563	N	LEU	707	53.348	88.920	63.257	0.00	0.00
ATOM	10564	H	LEU	707	52.491	88.535	63.627	0.00	0.00
ATOM	10565	CA	LEU	707	54.666	88.496	63.891	0.00	0.00
ATOM	10566	HA	LEU	707	55.379	89.320	63.885	0.00	0.00
ATOM	10567	CB	LEU	707	54.354	88.058	65.322	0.00	0.00
ATOM	10568	HB2	LEU	707	53.560	87.311	65.300	0.00	0.00
ATOM	10569	HB3	LEU	707	55.296	87.655	65.694	0.00	0.00
ATOM	10570	CG	LEU	707	53.832	89.155	66.327	0.00	0.00
ATOM	10571	HG	LEU	707	52.937	89.609	65.903	0.00	0.00
ATOM	10572	CD1	LEU	707	53.606	88.407	67.636	0.00	0.00
ATOM	10573	1HD1	LEU	707	54.589	88.001	67.874	0.00	0.00
ATOM	10574	2HD1	LEU	707	53.161	89.067	68.381	0.00	0.00
ATOM	10575	3HD1	LEU	707	52.792	87.710	67.440	0.00	0.00
ATOM	10576	CD2	LEU	707	54.895	90.273	66.576	0.00	0.00
ATOM	10577	1HD2	LEU	707	54.441	91.080	67.150	0.00	0.00
ATOM	10578	2HD2	LEU	707	55.830	89.856	66.950	0.00	0.00
ATOM	10579	3HD2	LEU	707	55.117	90.848	65.677	0.00	0.00

ATOM 10580	C	LEU	707	55.316	87.352	62.958	0.00	0.00
ATOM 10581	O	LEU	707	56.458	87.037	63.205	0.00	0.00
ATOM 10582	N	ASN	708	54.582	86.872	61.923	0.00	0.00
ATOM 10583	H	ASN	708	53.763	87.352	61.578	0.00	0.00
ATOM 10584	CA	ASN	708	54.970	85.935	60.897	0.00	0.00
ATOM 10585	HA	ASN	708	54.031	85.550	60.499	0.00	0.00
ATOM 10586	CB	ASN	708	55.876	86.539	59.803	0.00	0.00
ATOM 10587	HB2	ASN	708	56.874	86.670	60.222	0.00	0.00
ATOM 10588	HB3	ASN	708	55.536	87.564	59.657	0.00	0.00
ATOM 10589	CG	ASN	708	56.018	85.778	58.508	0.00	0.00
ATOM 10590	OD1	ASN	708	55.436	84.686	58.382	0.00	0.00
ATOM 10591	ND2	ASN	708	56.722	86.288	57.460	0.00	0.00
ATOM 10592	1HD2	ASN	708	56.774	85.811	56.571	0.00	0.00
ATOM 10593	2HD2	ASN	708	57.045	87.244	57.493	0.00	0.00
ATOM 10594	C	ASN	708	55.536	84.609	61.461	0.00	0.00
ATOM 10595	O	ASN	708	56.588	84.047	61.096	0.00	0.00
ATOM 10596	N	LEU	709	54.911	84.188	62.567	0.00	0.00
ATOM 10597	H	LEU	709	54.151	84.767	62.896	0.00	0.00
ATOM 10598	CA	LEU	709	55.153	82.965	63.211	0.00	0.00
ATOM 10599	HA	LEU	709	56.223	82.937	63.414	0.00	0.00
ATOM 10600	CB	LEU	709	54.265	82.988	64.508	0.00	0.00
ATOM 10601	HB2	LEU	709	53.205	82.988	64.257	0.00	0.00
ATOM 10602	HB3	LEU	709	54.457	82.071	65.066	0.00	0.00
ATOM 10603	CG	LEU	709	54.345	84.216	65.455	0.00	0.00
ATOM 10604	HG	LEU	709	54.042	85.088	64.875	0.00	0.00
ATOM 10605	CD1	LEU	709	53.358	83.975	66.556	0.00	0.00

ATOM	10606	1HD1	LEU	709	52.347	83.928	66.152	0.00	0.00
ATOM	10607	2HD1	LEU	709	53.541	83.068	67.132	0.00	0.00
ATOM	10608	3HD1	LEU	709	53.353	84.815	67.250	0.00	0.00
ATOM	10609	CD2	LEU	709	55.762	84.438	66.004	0.00	0.00
ATOM	10610	1HD2	LEU	709	56.422	84.627	65.158	0.00	0.00
ATOM	10611	2HD2	LEU	709	55.718	85.320	66.642	0.00	0.00
ATOM	10612	3HD2	LEU	709	56.034	83.591	66.634	0.00	0.00
ATOM	10613	C	LEU	709	54.848	81.712	62.269	0.00	0.00
ATOM	10614	O	LEU	709	53.987	81.795	61.374	0.00	0.00
ATOM	10615	N	ARG	710	55.418	80.511	62.632	0.00	0.00
ATOM	10616	H	ARG	710	56.104	80.539	63.373	0.00	0.00
ATOM	10617	CA	ARG	710	55.442	79.331	61.667	0.00	0.00
ATOM	10618	HA	ARG	710	55.018	79.702	60.734	0.00	0.00
ATOM	10619	CB	ARG	710	56.933	79.170	61.282	0.00	0.00
ATOM	10620	HB2	ARG	710	57.176	80.126	60.817	0.00	0.00
ATOM	10621	HB3	ARG	710	57.498	79.005	62.199	0.00	0.00
ATOM	10622	CG	ARG	710	56.957	78.052	60.287	0.00	0.00
ATOM	10623	HG2	ARG	710	56.774	77.072	60.728	0.00	0.00
ATOM	10624	HG3	ARG	710	56.328	78.214	59.412	0.00	0.00
ATOM	10625	CD	ARG	710	58.361	78.092	59.677	0.00	0.00
ATOM	10626	HD2	ARG	710	58.652	79.069	59.289	0.00	0.00
ATOM	10627	HD3	ARG	710	59.172	78.077	60.404	0.00	0.00
ATOM	10628	NE	ARG	710	58.447	76.946	58.775	0.00	0.00
ATOM	10629	HE	ARG	710	57.955	76.139	59.132	0.00	0.00
ATOM	10630	CZ	ARG	710	59.027	76.747	57.641	0.00	0.00
ATOM	10631	NH1	ARG	710	59.494	77.715	57.015	0.00	0.00

ATOM	10632	1HH1	ARG	710	59.960	77.633	56.123	0.00	0.00
ATOM	10633	2HH1	ARG	710	59.367	78.612	57.462	0.00	0.00
ATOM	10634	NH2	ARG	710	59.055	75.589	57.086	0.00	0.00
ATOM	10635	1HH2	ARG	710	59.321	75.454	56.121	0.00	0.00
ATOM	10636	2HH2	ARG	710	58.474	74.852	57.459	0.00	0.00
ATOM	10637	C	ARG	710	54.699	78.141	62.167	0.00	0.00
ATOM	10638	O	ARG	710	54.304	77.325	61.346	0.00	0.00
ATOM	10639	N	SER	711	54.373	78.067	63.471	0.00	0.00
ATOM	10640	H	SER	711	54.758	78.739	64.119	0.00	0.00
ATOM	10641	CA	SER	711	53.498	76.943	63.884	0.00	0.00
ATOM	10642	HA	SER	711	53.842	76.092	63.298	0.00	0.00
ATOM	10643	CB	SER	711	53.537	76.625	65.406	0.00	0.00
ATOM	10644	HB2	SER	711	52.975	77.356	65.987	0.00	0.00
ATOM	10645	HB3	SER	711	53.116	75.624	65.493	0.00	0.00
ATOM	10646	OG	SER	711	54.875	76.597	65.749	0.00	0.00
ATOM	10647	HG	SER	711	55.145	77.517	65.697	0.00	0.00
ATOM	10648	C	SER	711	51.993	77.219	63.461	0.00	0.00
ATOM	10649	O	SER	711	51.586	78.369	63.328	0.00	0.00
ATOM	10650	N	ALA	712	51.258	76.153	63.269	0.00	0.00
ATOM	10651	H	ALA	712	51.581	75.241	63.560	0.00	0.00
ATOM	10652	CA	ALA	712	49.819	76.284	63.009	0.00	0.00
ATOM	10653	HA	ALA	712	49.681	77.111	62.312	0.00	0.00
ATOM	10654	CB	ALA	712	49.156	75.086	62.327	0.00	0.00
ATOM	10655	HB1	ALA	712	49.515	74.965	61.305	0.00	0.00
ATOM	10656	HB2	ALA	712	49.316	74.163	62.884	0.00	0.00
ATOM	10657	HB3	ALA	712	48.085	75.279	62.263	0.00	0.00

ATOM	10658	C	ALA	712	49.098	76.637	64.300	0.00	0.00
ATOM	10659	O	ALA	712	49.349	75.973	65.340	0.00	0.00
ATOM	10660	N	ILE	713	48.308	77.654	64.281	0.00	0.00
ATOM	10661	H	ILE	713	48.232	78.088	63.372	0.00	0.00
ATOM	10662	CA	ILE	713	47.505	78.076	65.478	0.00	0.00
ATOM	10663	HA	ILE	713	48.071	77.813	66.372	0.00	0.00
ATOM	10664	CB	ILE	713	47.277	79.567	65.520	0.00	0.00
ATOM	10665	HB	ILE	713	47.131	79.841	66.565	0.00	0.00
ATOM	10666	CG2	ILE	713	48.522	80.380	64.993	0.00	0.00
ATOM	10667	1HG2	ILE	713	48.429	80.512	63.915	0.00	0.00
ATOM	10668	2HG2	ILE	713	48.385	81.363	65.444	0.00	0.00
ATOM	10669	3HG2	ILE	713	49.491	79.963	65.269	0.00	0.00
ATOM	10670	CG1	ILE	713	45.971	79.949	64.695	0.00	0.00
ATOM	10671	2HG1	ILE	713	46.153	79.762	63.636	0.00	0.00
ATOM	10672	3HG1	ILE	713	45.111	79.385	65.057	0.00	0.00
ATOM	10673	CD1	ILE	713	45.534	81.398	64.765	0.00	0.00
ATOM	10674	1HD1	ILE	713	44.683	81.534	64.098	0.00	0.00
ATOM	10675	2HD1	ILE	713	45.189	81.714	65.750	0.00	0.00
ATOM	10676	3HD1	ILE	713	46.329	82.073	64.448	0.00	0.00
ATOM	10677	C	ILE	713	46.219	77.139	65.704	0.00	0.00
ATOM	10678	O	ILE	713	45.698	76.322	64.944	0.00	0.00
ATOM	10679	N	ALA	714	45.683	77.309	66.907	0.00	0.00
ATOM	10680	H	ALA	714	46.223	77.936	67.487	0.00	0.00
ATOM	10681	CA	ALA	714	44.416	76.890	67.506	0.00	0.00
ATOM	10682	HA	ALA	714	43.648	76.741	66.746	0.00	0.00
ATOM	10683	CB	ALA	714	44.627	75.674	68.409	0.00	0.00

ATOM	10684	HB1	ALA	714	45.521	75.836	69.012	0.00	0.00
ATOM	10685	HB2	ALA	714	43.753	75.502	69.036	0.00	0.00
ATOM	10686	HB3	ALA	714	44.699	74.736	67.858	0.00	0.00
ATOM	10687	C	ALA	714	43.950	78.078	68.272	0.00	0.00
ATOM	10688	O	ALA	714	44.737	78.968	68.639	0.00	0.00
ATOM	10689	N	VAL	715	42.659	78.189	68.535	0.00	0.00
ATOM	10690	H	VAL	715	42.086	77.368	68.404	0.00	0.00
ATOM	10691	CA	VAL	715	42.026	79.365	69.099	0.00	0.00
ATOM	10692	HA	VAL	715	42.726	80.055	69.570	0.00	0.00
ATOM	10693	CB	VAL	715	41.194	80.113	68.068	0.00	0.00
ATOM	10694	HB	VAL	715	40.278	79.573	67.827	0.00	0.00
ATOM	10695	CG1	VAL	715	40.641	81.465	68.498	0.00	0.00
ATOM	10696	1HG1	VAL	715	41.439	82.205	68.448	0.00	0.00
ATOM	10697	2HG1	VAL	715	39.809	81.658	67.821	0.00	0.00
ATOM	10698	3HG1	VAL	715	40.331	81.347	69.536	0.00	0.00
ATOM	10699	CG2	VAL	715	42.016	80.214	66.795	0.00	0.00
ATOM	10700	1HG2	VAL	715	43.068	80.442	66.969	0.00	0.00
ATOM	10701	2HG2	VAL	715	42.035	79.336	66.149	0.00	0.00
ATOM	10702	3HG2	VAL	715	41.600	81.064	66.255	0.00	0.00
ATOM	10703	C	VAL	715	41.156	78.825	70.297	0.00	0.00
ATOM	10704	O	VAL	715	40.664	77.738	70.198	0.00	0.00
ATOM	10705	N	VAL	716	40.995	79.534	71.347	0.00	0.00
ATOM	10706	H	VAL	716	41.366	80.473	71.363	0.00	0.00
ATOM	10707	CA	VAL	716	40.253	79.058	72.573	0.00	0.00
ATOM	10708	HA	VAL	716	40.468	77.991	72.636	0.00	0.00
ATOM	10709	CB	VAL	716	40.905	79.640	73.868	0.00	0.00

ATOM	10710	HB	VAL	716	40.311	79.153	74.642	0.00	0.00
ATOM	10711	CG1	VAL	716	42.390	79.189	74.099	0.00	0.00
ATOM	10712	1HG1	VAL	716	42.161	78.137	74.271	0.00	0.00
ATOM	10713	2HG1	VAL	716	43.030	79.207	73.216	0.00	0.00
ATOM	10714	3HG1	VAL	716	42.768	79.701	74.983	0.00	0.00
ATOM	10715	CG2	VAL	716	40.808	81.133	73.842	0.00	0.00
ATOM	10716	1HG2	VAL	716	39.778	81.443	74.022	0.00	0.00
ATOM	10717	2HG2	VAL	716	41.491	81.528	74.594	0.00	0.00
ATOM	10718	3HG2	VAL	716	41.248	81.498	72.914	0.00	0.00
ATOM	10719	C	VAL	716	38.806	79.254	72.581	0.00	0.00
ATOM	10720	O	VAL	716	38.313	80.182	71.930	0.00	0.00
ATOM	10721	N	LYS	717	38.101	78.336	73.306	0.00	0.00
ATOM	10722	H	LYS	717	38.535	77.516	73.705	0.00	0.00
ATOM	10723	CA	LYS	717	36.619	78.447	73.505	0.00	0.00
ATOM	10724	HA	LYS	717	36.539	79.526	73.644	0.00	0.00
ATOM	10725	CB	LYS	717	35.823	77.858	72.343	0.00	0.00
ATOM	10726	HB2	LYS	717	34.764	78.019	72.543	0.00	0.00
ATOM	10727	HB3	LYS	717	36.027	78.329	71.381	0.00	0.00
ATOM	10728	CG	LYS	717	36.185	76.347	72.167	0.00	0.00
ATOM	10729	HG2	LYS	717	37.238	76.246	71.903	0.00	0.00
ATOM	10730	HG3	LYS	717	35.917	75.866	73.108	0.00	0.00
ATOM	10731	CD	LYS	717	35.444	75.725	71.039	0.00	0.00
ATOM	10732	HD2	LYS	717	34.419	75.586	71.382	0.00	0.00
ATOM	10733	HD3	LYS	717	35.428	76.521	70.294	0.00	0.00
ATOM	10734	CE	LYS	717	36.143	74.467	70.559	0.00	0.00
ATOM	10735	HE2	LYS	717	37.061	74.641	69.998	0.00	0.00



ATOM	10736	HE3	LYS	717	36.486	73.943	71.451	0.00	0.00
ATOM	10737	NZ	LYS	717	35.361	73.562	69.755	0.00	0.00
ATOM	10738	HZ1	LYS	717	34.500	73.426	70.265	0.00	0.00
ATOM	10739	HZ2	LYS	717	35.085	74.068	68.926	0.00	0.00
ATOM	10740	HZ3	LYS	717	35.693	72.609	69.745	0.00	0.00
ATOM	10741	C	LYS	717	36.226	77.874	74.877	0.00	0.00
ATOM	10742	O	LYS	717	36.948	76.962	75.436	0.00	0.00
ATOM	10743	N	GLY	718	35.094	78.295	75.407	0.00	0.00
ATOM	10744	H	GLY	718	34.547	78.973	74.896	0.00	0.00
ATOM	10745	CA	GLY	718	34.407	77.744	76.602	0.00	0.00
ATOM	10746	HA2	GLY	718	33.377	78.101	76.594	0.00	0.00
ATOM	10747	HA3	GLY	718	34.198	76.677	76.527	0.00	0.00
ATOM	10748	C	GLY	718	34.888	78.205	78.002	0.00	0.00
ATOM	10749	O	GLY	718	34.635	77.539	78.990	0.00	0.00
ATOM	10750	N	CYS	719	35.677	79.280	78.032	0.00	0.00
ATOM	10751	H	CYS	719	35.903	79.783	77.186	0.00	0.00
ATOM	10752	CA	CYS	719	36.285	79.722	79.271	0.00	0.00
ATOM	10753	HA	CYS	719	36.699	78.872	79.813	0.00	0.00
ATOM	10754	CB	CYS	719	37.502	80.539	78.930	0.00	0.00
ATOM	10755	HB2	CYS	719	37.131	81.414	78.396	0.00	0.00
ATOM	10756	HB3	CYS	719	37.872	80.859	79.904	0.00	0.00
ATOM	10757	SG	CYS	719	38.726	79.582	78.095	0.00	0.00
ATOM	10758	HG	CYS	719	38.235	79.272	76.892	0.00	0.00
ATOM	10759	C	CYS	719	35.232	80.412	80.232	0.00	0.00
ATOM	10760	O	CYS	719	35.588	80.350	81.450	0.00	0.00
ATOM	10761	N	ARG	720	34.138	81.001	79.772	0.00	0.00

ATOM	10762	H	ARG	720	33.881	80.871	78.804	0.00	0.00
ATOM	10763	CA	ARG	720	33.104	81.423	80.788	0.00	0.00
ATOM	10764	HA	ARG	720	33.486	81.622	81.789	0.00	0.00
ATOM	10765	CB	ARG	720	32.556	82.794	80.214	0.00	0.00
ATOM	10766	HB2	ARG	720	32.032	82.552	79.289	0.00	0.00
ATOM	10767	HB3	ARG	720	31.774	83.271	80.804	0.00	0.00
ATOM	10768	CG	ARG	720	33.543	83.909	80.008	0.00	0.00
ATOM	10769	HG2	ARG	720	34.328	83.540	79.348	0.00	0.00
ATOM	10770	HG3	ARG	720	32.989	84.661	79.446	0.00	0.00
ATOM	10771	CD	ARG	720	34.221	84.549	81.268	0.00	0.00
ATOM	10772	HD2	ARG	720	34.661	85.527	81.071	0.00	0.00
ATOM	10773	HD3	ARG	720	33.450	84.678	82.028	0.00	0.00
ATOM	10774	NE	ARG	720	35.308	83.732	81.763	0.00	0.00
ATOM	10775	HE	ARG	720	35.972	83.333	81.115	0.00	0.00
ATOM	10776	CZ	ARG	720	35.811	83.675	82.958	0.00	0.00
ATOM	10777	NH1	ARG	720	35.471	84.411	83.942	0.00	0.00
ATOM	10778	1HH1	ARG	720	35.727	84.178	84.891	0.00	0.00
ATOM	10779	2HH1	ARG	720	34.670	85.022	83.864	0.00	0.00
ATOM	10780	NH2	ARG	720	36.819	82.889	83.109	0.00	0.00
ATOM	10781	1HH2	ARG	720	37.191	82.918	84.048	0.00	0.00
ATOM	10782	2HH2	ARG	720	37.170	82.271	82.392	0.00	0.00
ATOM	10783	C	ARG	720	32.007	80.393	80.914	0.00	0.00
ATOM	10784	O	ARG	720	31.201	80.590	81.782	0.00	0.00
ATOM	10785	N	THR	721	31.949	79.318	80.093	0.00	0.00
ATOM	10786	H	THR	721	32.479	79.282	79.234	0.00	0.00
ATOM	10787	CA	THR	721	30.911	78.340	80.183	0.00	0.00

ATOM	10788	HA	THR	721	30.037	78.771	80.672	0.00	0.00
ATOM	10789	CB	THR	721	30.501	77.813	78.768	0.00	0.00
ATOM	10790	HB	THR	721	29.832	76.954	78.802	0.00	0.00
ATOM	10791	CG2	THR	721	29.809	79.066	78.041	0.00	0.00
ATOM	10792	1HG2	THR	721	29.155	78.680	77.260	0.00	0.00
ATOM	10793	2HG2	THR	721	29.353	79.707	78.796	0.00	0.00
ATOM	10794	3HG2	THR	721	30.594	79.672	77.588	0.00	0.00
ATOM	10795	OG1	THR	721	31.617	77.381	78.017	0.00	0.00
ATOM	10796	HG1	THR	721	31.295	77.074	77.166	0.00	0.00
ATOM	10797	C	THR	721	31.324	77.167	81.045	0.00	0.00
ATOM	10798	O	THR	721	30.472	76.587	81.676	0.00	0.00
ATOM	10799	N	VAL	722	32.626	76.871	81.188	0.00	0.00
ATOM	10800	H	VAL	722	33.266	77.396	80.609	0.00	0.00
ATOM	10801	CA	VAL	722	33.181	75.869	82.069	0.00	0.00
ATOM	10802	HA	VAL	722	32.807	74.883	81.795	0.00	0.00
ATOM	10803	CB	VAL	722	34.716	75.798	81.931	0.00	0.00
ATOM	10804	HB	VAL	722	34.883	75.685	80.860	0.00	0.00
ATOM	10805	CG1	VAL	722	35.524	77.038	82.355	0.00	0.00
ATOM	10806	1HG1	VAL	722	36.561	76.974	82.026	0.00	0.00
ATOM	10807	2HG1	VAL	722	35.023	77.928	81.973	0.00	0.00
ATOM	10808	3HG1	VAL	722	35.632	77.183	83.430	0.00	0.00
ATOM	10809	CG2	VAL	722	35.363	74.574	82.691	0.00	0.00
ATOM	10810	1HG2	VAL	722	36.444	74.477	82.586	0.00	0.00
ATOM	10811	2HG2	VAL	722	35.108	74.615	83.750	0.00	0.00
ATOM	10812	3HG2	VAL	722	34.812	73.689	82.372	0.00	0.00
ATOM	10813	C	VAL	722	32.709	76.066	83.457	0.00	0.00

ATOM	10814	O	VAL	722	32.689	77.184	83.930	0.00	0.00
ATOM	10815	N	GLN	723	32.406	74.956	84.208	0.00	0.00
ATOM	10816	H	GLN	723	32.581	74.059	83.778	0.00	0.00
ATOM	10817	CA	GLN	723	31.970	74.978	85.566	0.00	0.00
ATOM	10818	HA	GLN	723	32.494	75.693	86.200	0.00	0.00
ATOM	10819	CB	GLN	723	30.474	75.305	85.636	0.00	0.00
ATOM	10820	HB2	GLN	723	30.049	75.285	86.640	0.00	0.00
ATOM	10821	HB3	GLN	723	30.424	76.338	85.291	0.00	0.00
ATOM	10822	CG	GLN	723	29.619	74.253	84.859	0.00	0.00
ATOM	10823	HG2	GLN	723	29.940	74.192	83.820	0.00	0.00
ATOM	10824	HG3	GLN	723	29.623	73.325	85.431	0.00	0.00
ATOM	10825	CD	GLN	723	28.104	74.489	84.932	0.00	0.00
ATOM	10826	OE1	GLN	723	27.667	75.496	85.510	0.00	0.00
ATOM	10827	NE2	GLN	723	27.345	73.712	84.234	0.00	0.00
ATOM	10828	1HE2	GLN	723	26.399	74.063	84.178	0.00	0.00
ATOM	10829	2HE2	GLN	723	27.680	72.950	83.662	0.00	0.00
ATOM	10830	C	GLN	723	32.252	73.702	86.245	0.00	0.00
ATOM	10831	O	GLN	723	32.428	72.635	85.625	0.00	0.00
ATOM	10832	N	LYS	724	32.132	73.609	87.558	0.00	0.00
ATOM	10833	H	LYS	724	31.756	74.423	88.023	0.00	0.00
ATOM	10834	CA	LYS	724	32.808	72.510	88.342	0.00	0.00
ATOM	10835	HA	LYS	724	33.841	72.410	88.009	0.00	0.00
ATOM	10836	CB	LYS	724	32.817	73.016	89.826	0.00	0.00
ATOM	10837	HB2	LYS	724	33.097	74.066	89.910	0.00	0.00
ATOM	10838	HB3	LYS	724	31.850	72.841	90.299	0.00	0.00
ATOM	10839	CG	LYS	724	34.023	72.214	90.527	0.00	0.00

ATOM	10840	HG2	LYS	724	33.892	71.141	90.384	0.00	0.00
ATOM	10841	HG3	LYS	724	34.983	72.442	90.063	0.00	0.00
ATOM	10842	CD	LYS	724	34.146	72.492	92.031	0.00	0.00
ATOM	10843	HD2	LYS	724	33.926	73.530	92.279	0.00	0.00
ATOM	10844	HD3	LYS	724	33.365	71.887	92.492	0.00	0.00
ATOM	10845	CE	LYS	724	35.366	72.008	92.767	0.00	0.00
ATOM	10846	HE2	LYS	724	35.694	71.029	92.420	0.00	0.00
ATOM	10847	HE3	LYS	724	36.255	72.613	92.590	0.00	0.00
ATOM	10848	NZ	LYS	724	35.318	72.021	94.296	0.00	0.00
ATOM	10849	HZ1	LYS	724	34.875	72.868	94.622	0.00	0.00
ATOM	10850	HZ2	LYS	724	34.680	71.289	94.573	0.00	0.00
ATOM	10851	HZ3	LYS	724	36.184	71.730	94.728	0.00	0.00
ATOM	10852	C	LYS	724	32.336	71.081	88.182	0.00	0.00
ATOM	10853	O	LYS	724	33.144	70.135	88.173	0.00	0.00
ATOM	10854	N	ALA	725	31.027	70.862	87.991	0.00	0.00
ATOM	10855	H	ALA	725	30.380	71.628	87.866	0.00	0.00
ATOM	10856	CA	ALA	725	30.501	69.589	87.514	0.00	0.00
ATOM	10857	HA	ALA	725	30.631	68.746	88.193	0.00	0.00
ATOM	10858	CB	ALA	725	28.950	69.685	87.357	0.00	0.00
ATOM	10859	HB1	ALA	725	28.763	70.220	86.426	0.00	0.00
ATOM	10860	HB2	ALA	725	28.583	68.669	87.215	0.00	0.00
ATOM	10861	HB3	ALA	725	28.591	70.197	88.250	0.00	0.00
ATOM	10862	C	ALA	725	31.116	69.144	86.143	0.00	0.00
ATOM	10863	O	ALA	725	30.870	67.982	85.807	0.00	0.00
ATOM	10864	N	ASP	726	31.959	69.898	85.434	0.00	0.00
ATOM	10865	H	ASP	726	32.040	70.863	85.722	0.00	0.00

ATOM	10866	CA	ASP	726	32.523	69.565	84.107	0.00	0.00
ATOM	10867	HA	ASP	726	31.954	68.706	83.751	0.00	0.00
ATOM	10868	CB	ASP	726	32.262	70.692	83.056	0.00	0.00
ATOM	10869	HB2	ASP	726	31.351	71.184	83.396	0.00	0.00
ATOM	10870	HB3	ASP	726	33.074	71.418	82.999	0.00	0.00
ATOM	10871	CG	ASP	726	32.004	70.072	81.658	0.00	0.00
ATOM	10872	OD1	ASP	726	32.597	70.463	80.627	0.00	0.00
ATOM	10873	OD2	ASP	726	30.997	69.304	81.512	0.00	0.00
ATOM	10874	C	ASP	726	34.042	69.126	84.142	0.00	0.00
ATOM	10875	O	ASP	726	34.715	69.065	83.130	0.00	0.00
ATOM	10876	N	MET	727	34.564	68.888	85.336	0.00	0.00
ATOM	10877	H	MET	727	33.955	68.944	86.140	0.00	0.00
ATOM	10878	CA	MET	727	35.903	68.414	85.495	0.00	0.00
ATOM	10879	HA	MET	727	36.547	68.734	84.676	0.00	0.00
ATOM	10880	CB	MET	727	36.602	68.958	86.728	0.00	0.00
ATOM	10881	HB2	MET	727	36.083	68.793	87.672	0.00	0.00
ATOM	10882	HB3	MET	727	37.618	68.587	86.865	0.00	0.00
ATOM	10883	CG	MET	727	36.867	70.480	86.547	0.00	0.00
ATOM	10884	HG2	MET	727	35.912	70.768	86.109	0.00	0.00
ATOM	10885	HG3	MET	727	37.038	70.905	87.536	0.00	0.00
ATOM	10886	SD	MET	727	38.132	70.983	85.399	0.00	0.00
ATOM	10887	CE	MET	727	37.248	72.254	84.426	0.00	0.00
ATOM	10888	HE1	MET	727	36.386	71.886	83.871	0.00	0.00
ATOM	10889	HE2	MET	727	36.940	73.048	85.107	0.00	0.00
ATOM	10890	HE3	MET	727	38.010	72.725	83.804	0.00	0.00
ATOM	10891	C	MET	727	35.934	66.902	85.640	0.00	0.00

ATOM 10892	O	MET	727	35.322	66.319	86.548	0.00	0.00
ATOM 10893	N	VAL	728	36.796	66.203	84.852	0.00	0.00
ATOM 10894	H	VAL	728	37.444	66.657	84.223	0.00	0.00
ATOM 10895	CA	VAL	728	36.742	64.738	84.925	0.00	0.00
ATOM 10896	HA	VAL	728	35.705	64.421	85.030	0.00	0.00
ATOM 10897	CB	VAL	728	37.490	64.173	83.686	0.00	0.00
ATOM 10898	HB	VAL	728	38.491	64.574	83.530	0.00	0.00
ATOM 10899	CG1	VAL	728	37.625	62.631	83.718	0.00	0.00
ATOM 10900	1HG1	VAL	728	38.355	62.310	84.461	0.00	0.00
ATOM 10901	2HG1	VAL	728	36.710	62.175	84.098	0.00	0.00
ATOM 10902	3HG1	VAL	728	38.001	62.225	82.779	0.00	0.00
ATOM 10903	CG2	VAL	728	36.790	64.436	82.358	0.00	0.00
ATOM 10904	1HG2	VAL	728	35.797	63.991	82.292	0.00	0.00
ATOM 10905	2HG2	VAL	728	36.751	65.522	82.280	0.00	0.00
ATOM 10906	3HG2	VAL	728	37.361	64.091	81.496	0.00	0.00
ATOM 10907	C	VAL	728	37.313	64.269	86.287	0.00	0.00
ATOM 10908	O	VAL	728	38.352	64.644	86.726	0.00	0.00
ATOM 10909	N	HIE	729	36.550	63.256	86.730	0.00	0.00
ATOM 10910	H	HIE	729	35.818	62.977	86.094	0.00	0.00
ATOM 10911	CA	HIE	729	36.671	62.555	88.022	0.00	0.00
ATOM 10912	HA	HIE	729	35.714	62.060	88.189	0.00	0.00
ATOM 10913	CB	HIE	729	37.688	61.385	87.881	0.00	0.00
ATOM 10914	HB2	HIE	729	37.637	61.175	86.813	0.00	0.00
ATOM 10915	HB3	HIE	729	38.688	61.798	88.014	0.00	0.00
ATOM 10916	CG	HIE	729	37.424	60.037	88.553	0.00	0.00
ATOM 10917	ND1	HIE	729	37.707	59.719	89.885	0.00	0.00

ATOM	10918	CE1	HIE	729	37.174	58.498	90.077	0.00	0.00
ATOM	10919	HE1	HIE	729	37.293	57.982	91.018	0.00	0.00
ATOM	10920	NE2	HIE	729	36.466	58.083	89.002	0.00	0.00
ATOM	10921	HE2	HIE	729	36.140	57.148	88.800	0.00	0.00
ATOM	10922	CD2	HIE	729	36.533	59.072	88.067	0.00	0.00
ATOM	10923	HD2	HIE	729	35.893	58.997	87.200	0.00	0.00
ATOM	10924	C	HIE	729	36.971	63.420	89.159	0.00	0.00
ATOM	10925	O	HIE	729	37.622	62.938	90.120	0.00	0.00
ATOM	10926	N	ASN	730	36.712	64.768	89.159	0.00	0.00
ATOM	10927	H	ASN	730	36.328	65.220	88.341	0.00	0.00
ATOM	10928	CA	ASN	730	37.126	65.645	90.229	0.00	0.00
ATOM	10929	HA	ASN	730	37.012	65.130	91.182	0.00	0.00
ATOM	10930	CB	ASN	730	38.575	66.114	90.023	0.00	0.00
ATOM	10931	HB2	ASN	730	38.681	66.687	89.102	0.00	0.00
ATOM	10932	HB3	ASN	730	38.672	66.816	90.851	0.00	0.00
ATOM	10933	CG	ASN	730	39.686	65.105	90.028	0.00	0.00
ATOM	10934	OD1	ASN	730	40.386	64.990	91.024	0.00	0.00
ATOM	10935	ND2	ASN	730	39.959	64.302	89.015	0.00	0.00
ATOM	10936	1HD2	ASN	730	40.797	63.737	88.997	0.00	0.00
ATOM	10937	2HD2	ASN	730	39.385	64.440	88.196	0.00	0.00
ATOM	10938	C	ASN	730	36.185	66.942	90.430	0.00	0.00
ATOM	10939	O	ASN	730	36.583	68.092	90.285	0.00	0.00
ATOM	10940	N	SER	731	34.910	66.757	90.758	0.00	0.00
ATOM	10941	H	SER	731	34.540	65.831	90.919	0.00	0.00
ATOM	10942	CA	SER	731	33.812	67.727	90.972	0.00	0.00
ATOM	10943	HA	SER	731	34.204	68.694	90.658	0.00	0.00



ATOM 10944	CB	SER	731	32.630	67.412	89.951	0.00	0.00
ATOM 10945	HB2	SER	731	31.818	68.134	90.036	0.00	0.00
ATOM 10946	HB3	SER	731	33.045	67.221	88.962	0.00	0.00
ATOM 10947	OG	SER	731	32.145	66.118	90.334	0.00	0.00
ATOM 10948	HG	SER	731	32.623	65.374	89.963	0.00	0.00
ATOM 10949	C	SER	731	33.285	67.905	92.340	0.00	0.00
ATOM 10950	O	SER	731	32.169	68.465	92.459	0.00	0.00
ATOM 10951	N	LEU	732	33.927	67.403	93.383	0.00	0.00
ATOM 10952	H	LEU	732	34.883	67.129	93.206	0.00	0.00
ATOM 10953	CA	LEU	732	33.320	67.473	94.695	0.00	0.00
ATOM 10954	HA	LEU	732	32.391	66.939	94.495	0.00	0.00
ATOM 10955	CB	LEU	732	34.078	66.661	95.702	0.00	0.00
ATOM 10956	HB2	LEU	732	34.211	65.722	95.165	0.00	0.00
ATOM 10957	HB3	LEU	732	35.113	66.961	95.868	0.00	0.00
ATOM 10958	CG	LEU	732	33.388	66.343	97.094	0.00	0.00
ATOM 10959	HG	LEU	732	33.240	67.259	97.666	0.00	0.00
ATOM 10960	CD1	LEU	732	32.010	65.702	96.853	0.00	0.00
ATOM 10961	1HD1	LEU	732	31.366	66.334	96.242	0.00	0.00
ATOM 10962	2HD1	LEU	732	32.177	64.745	96.359	0.00	0.00
ATOM 10963	3HD1	LEU	732	31.504	65.589	97.812	0.00	0.00
ATOM 10964	CD2	LEU	732	34.270	65.566	97.945	0.00	0.00
ATOM 10965	1HD2	LEU	732	34.300	64.515	97.655	0.00	0.00
ATOM 10966	2HD2	LEU	732	35.256	66.008	97.802	0.00	0.00
ATOM 10967	3HD2	LEU	732	33.878	65.536	98.962	0.00	0.00
ATOM 10968	C	LEU	732	33.198	68.913	95.143	0.00	0.00
ATOM 10969	O	LEU	732	34.108	69.686	95.265	0.00	0.00

ATOM 10970	N	GLN	733	32.024	69.263	95.679	0.00	0.00
ATOM 10971	H	GLN	733	31.274	68.590	95.750	0.00	0.00
ATOM 10972	CA	GLN	733	31.872	70.433	96.591	0.00	0.00
ATOM 10973	HA	GLN	733	32.683	71.136	96.401	0.00	0.00
ATOM 10974	CB	GLN	733	30.699	71.290	96.257	0.00	0.00
ATOM 10975	HB2	GLN	733	29.768	70.802	96.545	0.00	0.00
ATOM 10976	HB3	GLN	733	30.762	72.171	96.896	0.00	0.00
ATOM 10977	CG	GLN	733	30.503	71.685	94.804	0.00	0.00
ATOM 10978	HG2	GLN	733	30.649	70.785	94.207	0.00	0.00
ATOM 10979	HG3	GLN	733	29.502	72.085	94.643	0.00	0.00
ATOM 10980	CD	GLN	733	31.546	72.724	94.263	0.00	0.00
ATOM 10981	OE1	GLN	733	32.602	72.999	94.744	0.00	0.00
ATOM 10982	NE2	GLN	733	31.231	73.450	93.198	0.00	0.00
ATOM 10983	1HE2	GLN	733	31.912	74.147	92.933	0.00	0.00
ATOM 10984	2HE2	GLN	733	30.387	73.303	92.664	0.00	0.00
ATOM 10985	C	GLN	733	31.790	69.793	98.030	0.00	0.00
ATOM 10986	O	GLN	733	30.702	69.503	98.550	0.00	0.00
ATOM 10987	N	PRO	734	32.939	69.532	98.707	0.00	0.00
ATOM 10988	CD	PRO	734	34.312	69.940	98.305	0.00	0.00
ATOM 10989	HD2	PRO	734	34.720	69.208	97.608	0.00	0.00
ATOM 10990	HD3	PRO	734	34.403	70.939	97.877	0.00	0.00
ATOM 10991	CG	PRO	734	35.072	69.839	99.636	0.00	0.00
ATOM 10992	HG2	PRO	734	36.105	69.547	99.449	0.00	0.00
ATOM 10993	HG3	PRO	734	35.109	70.811	100.127	0.00	0.00
ATOM 10994	CB	PRO	734	34.379	68.906	100.506	0.00	0.00
ATOM 10995	HB2	PRO	734	34.814	67.909	100.439	0.00	0.00

ATOM 10996	HB3 PRO	734	34.481	69.343	101.499	0.00	0.00
ATOM 10997	CA PRO	734	32.916	68.998	100.063	0.00	0.00
ATOM 10998	HA PRO	734	32.450	68.013	100.052	0.00	0.00
ATOM 10999	C PRO	734	32.219	69.935	101.039	0.00	0.00
ATOM 11000	O PRO	734	32.218	71.134	100.871	0.00	0.00
ATOM 11001	N ASN	735	31.748	69.376	102.087	0.00	0.00
ATOM 11002	H ASN	735	31.755	68.366	102.083	0.00	0.00
ATOM 11003	CA ASN	735	30.851	69.940	103.127	0.00	0.00
ATOM 11004	HA ASN	735	30.268	70.648	102.537	0.00	0.00
ATOM 11005	CB ASN	735	29.849	68.888	103.730	0.00	0.00
ATOM 11006	HB2 ASN	735	29.161	68.524	102.967	0.00	0.00
ATOM 11007	HB3 ASN	735	30.385	68.037	104.150	0.00	0.00
ATOM 11008	CG ASN	735	28.967	69.337	104.917	0.00	0.00
ATOM 11009	OD1 ASN	735	28.880	70.444	105.405	0.00	0.00
ATOM 11010	ND2 ASN	735	28.327	68.292	105.456	0.00	0.00
ATOM 11011	1HD2 ASN	735	27.734	68.545	106.233	0.00	0.00
ATOM 11012	2HD2 ASN	735	28.257	67.375	105.037	0.00	0.00
ATOM 11013	C ASN	735	31.646	70.685	104.166	0.00	0.00
ATOM 11014	O ASN	735	31.953	70.152	105.184	0.00	0.00
ATOM 11015	N ILE	736	32.350	71.739	103.669	0.00	0.00
ATOM 11016	H ILE	736	32.158	72.100	102.746	0.00	0.00
ATOM 11017	CA ILE	736	33.665	72.300	104.082	0.00	0.00
ATOM 11018	HA ILE	736	34.165	71.520	104.656	0.00	0.00
ATOM 11019	CB ILE	736	34.633	72.584	102.928	0.00	0.00
ATOM 11020	HB ILE	736	34.619	71.744	102.234	0.00	0.00
ATOM 11021	CG2 ILE	736	34.056	73.813	102.108	0.00	0.00

ATOM	11022	1HG2	ILE	736	34.279	74.734	102.646	0.00	0.00
ATOM	11023	2HG2	ILE	736	34.359	73.902	101.064	0.00	0.00
ATOM	11024	3HG2	ILE	736	32.984	73.648	101.995	0.00	0.00
ATOM	11025	CG1	ILE	736	36.111	72.785	103.379	0.00	0.00
ATOM	11026	2HG1	ILE	736	36.195	73.622	104.072	0.00	0.00
ATOM	11027	3HG1	ILE	736	36.522	71.832	103.709	0.00	0.00
ATOM	11028	CD1	ILE	736	36.890	73.224	102.173	0.00	0.00
ATOM	11029	1HD1	ILE	736	37.896	73.499	102.489	0.00	0.00
ATOM	11030	2HD1	ILE	736	37.005	72.388	101.484	0.00	0.00
ATOM	11031	3HD1	ILE	736	36.464	74.130	101.741	0.00	0.00
ATOM	11032	C	ILE	736	33.528	73.530	105.043	0.00	0.00
ATOM	11033	O	ILE	736	32.753	74.403	104.870	0.00	0.00
ATOM	11034	N	THR	737	34.472	73.586	105.937	0.00	0.00
ATOM	11035	H	THR	737	35.189	72.876	105.888	0.00	0.00
ATOM	11036	CA	THR	737	34.610	74.636	106.948	0.00	0.00
ATOM	11037	HA	THR	737	34.373	75.610	106.520	0.00	0.00
ATOM	11038	CB	THR	737	33.768	74.405	108.264	0.00	0.00
ATOM	11039	HB	THR	737	34.017	75.140	109.029	0.00	0.00
ATOM	11040	CG2	THR	737	32.271	74.590	107.877	0.00	0.00
ATOM	11041	1HG2	THR	737	31.621	74.579	108.751	0.00	0.00
ATOM	11042	2HG2	THR	737	32.140	75.556	107.389	0.00	0.00
ATOM	11043	3HG2	THR	737	31.890	73.763	107.277	0.00	0.00
ATOM	11044	OG1	THR	737	33.768	73.025	108.635	0.00	0.00
ATOM	11045	HG1	THR	737	33.559	72.949	109.569	0.00	0.00
ATOM	11046	C	THR	737	36.131	74.788	107.339	0.00	0.00
ATOM	11047	O	THR	737	36.875	73.920	106.987	0.00	0.00

ATOM	11048	N	VAL	738	36.515	75.830	108.049	0.00	0.00
ATOM	11049	H	VAL	738	35.899	76.611	108.229	0.00	0.00
ATOM	11050	CA	VAL	738	37.765	75.943	108.811	0.00	0.00
ATOM	11051	HA	VAL	738	38.258	74.975	108.721	0.00	0.00
ATOM	11052	CB	VAL	738	38.689	77.122	108.292	0.00	0.00
ATOM	11053	HB	VAL	738	39.467	77.470	108.972	0.00	0.00
ATOM	11054	CG1	VAL	738	39.501	76.590	107.165	0.00	0.00
ATOM	11055	1HG1	VAL	738	40.034	75.701	107.500	0.00	0.00
ATOM	11056	2HG1	VAL	738	38.925	76.346	106.272	0.00	0.00
ATOM	11057	3HG1	VAL	738	40.225	77.320	106.802	0.00	0.00
ATOM	11058	CG2	VAL	738	37.863	78.408	107.850	0.00	0.00
ATOM	11059	1HG2	VAL	738	37.427	78.873	108.734	0.00	0.00
ATOM	11060	2HG2	VAL	738	38.589	79.108	107.436	0.00	0.00
ATOM	11061	3HG2	VAL	738	37.261	78.152	106.978	0.00	0.00
ATOM	11062	C	VAL	738	37.458	76.002	110.322	0.00	0.00
ATOM	11063	O	VAL	738	36.304	76.211	110.738	0.00	0.00
ATOM	11064	N	ASP	739	38.502	75.660	111.075	0.00	0.00
ATOM	11065	H	ASP	739	39.419	75.495	110.685	0.00	0.00
ATOM	11066	CA	ASP	739	38.472	75.662	112.505	0.00	0.00
ATOM	11067	HA	ASP	739	37.462	75.425	112.839	0.00	0.00
ATOM	11068	CB	ASP	739	39.477	74.610	112.969	0.00	0.00
ATOM	11069	HB2	ASP	739	39.350	73.742	112.321	0.00	0.00
ATOM	11070	HB3	ASP	739	40.482	74.856	112.628	0.00	0.00
ATOM	11071	CG	ASP	739	39.410	74.364	114.477	0.00	0.00
ATOM	11072	OD1	ASP	739	39.045	73.247	114.918	0.00	0.00
ATOM	11073	OD2	ASP	739	39.907	75.183	115.247	0.00	0.00

ATOM	11074	C	ASP	739	38.688	76.991	113.178	0.00	0.00
ATOM	11075	O	ASP	739	39.561	77.691	112.654	0.00	0.00
ATOM	11076	N	ALA	740	37.927	77.365	114.179	0.00	0.00
ATOM	11077	H	ALA	740	37.305	76.739	114.671	0.00	0.00
ATOM	11078	CA	ALA	740	37.771	78.777	114.536	0.00	0.00
ATOM	11079	HA	ALA	740	37.896	79.293	113.584	0.00	0.00
ATOM	11080	CB	ALA	740	36.363	79.028	114.961	0.00	0.00
ATOM	11081	HB1	ALA	740	36.106	80.076	115.116	0.00	0.00
ATOM	11082	HB2	ALA	740	35.815	78.709	114.075	0.00	0.00
ATOM	11083	HB3	ALA	740	36.012	78.484	115.838	0.00	0.00
ATOM	11084	C	ALA	740	38.899	79.286	115.483	0.00	0.00
ATOM	11085	O	ALA	740	38.670	80.336	116.168	0.00	0.00
ATOM	11086	N	GLN	741	39.936	78.563	115.635	0.00	0.00
ATOM	11087	H	GLN	741	40.002	77.684	115.142	0.00	0.00
ATOM	11088	CA	GLN	741	41.187	78.990	116.399	0.00	0.00
ATOM	11089	HA	GLN	741	41.288	80.054	116.183	0.00	0.00
ATOM	11090	CB	GLN	741	41.062	78.607	117.867	0.00	0.00
ATOM	11091	HB2	GLN	741	40.017	78.498	118.158	0.00	0.00
ATOM	11092	HB3	GLN	741	41.532	77.625	117.932	0.00	0.00
ATOM	11093	CG	GLN	741	41.896	79.619	118.768	0.00	0.00
ATOM	11094	HG2	GLN	741	42.942	79.403	118.552	0.00	0.00
ATOM	11095	HG3	GLN	741	41.510	80.634	118.672	0.00	0.00
ATOM	11096	CD	GLN	741	41.690	79.364	120.250	0.00	0.00
ATOM	11097	OE1	GLN	741	42.413	78.585	120.894	0.00	0.00
ATOM	11098	NE2	GLN	741	40.803	80.058	120.894	0.00	0.00
ATOM	11099	1HE2	GLN	741	40.651	79.972	121.889	0.00	0.00

ATOM 11100 2HE2 GLN 741 40.281 80.738 120.361 0.00 0.00  
ATOM 11101 C GLN 741 42.396 78.279 115.762 0.00 0.00  
ATOM 11102 O GLN 741 43.481 78.752 115.819 0.00 0.00  
ATOM 11103 N THR 742 42.274 77.133 115.086 0.00 0.00  
ATOM 11104 H THR 742 41.365 76.695 115.126 0.00 0.00  
ATOM 11105 CA THR 742 43.343 76.420 114.384 0.00 0.00  
ATOM 11106 HA THR 742 44.322 76.857 114.585 0.00 0.00  
ATOM 11107 CB THR 742 43.594 75.017 114.901 0.00 0.00  
ATOM 11108 HB THR 742 44.558 74.673 114.526 0.00 0.00  
ATOM 11109 CG2 THR 742 43.809 74.961 116.410 0.00 0.00  
ATOM 11110 1HG2 THR 742 42.863 75.054 116.943 0.00 0.00  
ATOM 11111 2HG2 THR 742 44.189 73.956 116.593 0.00 0.00  
ATOM 11112 3HG2 THR 742 44.451 75.744 116.812 0.00 0.00  
ATOM 11113 OG1 THR 742 42.515 74.204 114.548 0.00 0.00  
ATOM 11114 HG1 THR 742 41.780 74.751 114.837 0.00 0.00  
ATOM 11115 C THR 742 43.393 76.477 112.844 0.00 0.00  
ATOM 11116 O THR 742 44.298 75.934 112.194 0.00 0.00  
ATOM 11117 N TYR 743 42.397 77.183 112.245 0.00 0.00  
ATOM 11118 H TYR 743 41.542 77.423 112.727 0.00 0.00  
ATOM 11119 CA TYR 743 42.321 77.587 110.790 0.00 0.00  
ATOM 11120 HA TYR 743 41.299 77.927 110.622 0.00 0.00  
ATOM 11121 CB TYR 743 43.222 78.795 110.511 0.00 0.00  
ATOM 11122 HB2 TYR 743 44.233 78.388 110.494 0.00 0.00  
ATOM 11123 HB3 TYR 743 43.000 79.139 109.501 0.00 0.00  
ATOM 11124 CG TYR 743 43.110 79.889 111.533 0.00 0.00  
ATOM 11125 CD1 TYR 743 41.798 80.462 111.758 0.00 0.00

ATOM	11126	HD1	TYR	743	41.000	80.109	111.121	0.00	0.00
ATOM	11127	CE1	TYR	743	41.647	81.307	112.901	0.00	0.00
ATOM	11128	HE1	TYR	743	40.685	81.745	113.126	0.00	0.00
ATOM	11129	CZ	TYR	743	42.760	81.653	113.659	0.00	0.00
ATOM	11130	OH	TYR	743	42.530	82.332	114.809	0.00	0.00
ATOM	11131	HH	TYR	743	41.610	82.322	115.083	0.00	0.00
ATOM	11132	CE2	TYR	743	43.976	80.981	113.446	0.00	0.00
ATOM	11133	HE2	TYR	743	44.817	81.208	114.085	0.00	0.00
ATOM	11134	CD2	TYR	743	44.151	80.079	112.445	0.00	0.00
ATOM	11135	HD2	TYR	743	45.059	79.528	112.254	0.00	0.00
ATOM	11136	C	TYR	743	42.577	76.419	109.787	0.00	0.00
ATOM	11137	O	TYR	743	42.954	76.624	108.652	0.00	0.00
ATOM	11138	N	GLU	744	42.207	75.186	110.213	0.00	0.00
ATOM	11139	H	GLU	744	42.005	75.077	111.197	0.00	0.00
ATOM	11140	CA	GLU	744	42.338	73.902	109.518	0.00	0.00
ATOM	11141	HA	GLU	744	43.070	73.992	108.715	0.00	0.00
ATOM	11142	CB	GLU	744	43.018	72.981	110.592	0.00	0.00
ATOM	11143	HB2	GLU	744	43.626	73.585	111.266	0.00	0.00
ATOM	11144	HB3	GLU	744	42.270	72.458	111.188	0.00	0.00
ATOM	11145	CG	GLU	744	43.936	71.959	109.888	0.00	0.00
ATOM	11146	HG2	GLU	744	43.520	71.643	108.931	0.00	0.00
ATOM	11147	HG3	GLU	744	44.837	72.519	109.635	0.00	0.00
ATOM	11148	CD	GLU	744	44.177	70.814	110.801	0.00	0.00
ATOM	11149	OE1	GLU	744	43.814	69.675	110.471	0.00	0.00
ATOM	11150	OE2	GLU	744	44.779	71.103	111.836	0.00	0.00
ATOM	11151	C	GLU	744	41.107	73.212	108.992	0.00	0.00



ATOM	11152	O	GLU	744	40.060	73.256	109.598	0.00	0.00
ATOM	11153	N	VAL	745	41.293	72.648	107.830	0.00	0.00
ATOM	11154	H	VAL	745	42.187	72.553	107.371	0.00	0.00
ATOM	11155	CA	VAL	745	40.032	72.212	107.126	0.00	0.00
ATOM	11156	HA	VAL	745	39.353	73.063	107.063	0.00	0.00
ATOM	11157	CB	VAL	745	40.282	71.935	105.676	0.00	0.00
ATOM	11158	HB	VAL	745	40.598	72.849	105.174	0.00	0.00
ATOM	11159	CG1	VAL	745	41.255	70.839	105.278	0.00	0.00
ATOM	11160	1HG1	VAL	745	41.081	69.958	105.895	0.00	0.00
ATOM	11161	2HG1	VAL	745	41.179	70.555	104.228	0.00	0.00
ATOM	11162	3HG1	VAL	745	42.309	71.019	105.489	0.00	0.00
ATOM	11163	CG2	VAL	745	38.913	71.669	104.956	0.00	0.00
ATOM	11164	1HG2	VAL	745	39.117	71.745	103.888	0.00	0.00
ATOM	11165	2HG2	VAL	745	38.601	70.655	105.205	0.00	0.00
ATOM	11166	3HG2	VAL	745	38.164	72.345	105.369	0.00	0.00
ATOM	11167	C	VAL	745	39.223	71.144	107.887	0.00	0.00
ATOM	11168	O	VAL	745	39.824	70.156	108.347	0.00	0.00
ATOM	11169	N	ARG	746	37.932	71.345	107.933	0.00	0.00
ATOM	11170	H	ARG	746	37.664	72.224	107.515	0.00	0.00
ATOM	11171	CA	ARG	746	36.900	70.460	108.571	0.00	0.00
ATOM	11172	HA	ARG	746	37.423	69.536	108.819	0.00	0.00
ATOM	11173	CB	ARG	746	36.336	71.179	109.774	0.00	0.00
ATOM	11174	HB2	ARG	746	36.202	72.235	109.539	0.00	0.00
ATOM	11175	HB3	ARG	746	35.301	70.899	109.969	0.00	0.00
ATOM	11176	CG	ARG	746	37.304	71.006	110.968	0.00	0.00
ATOM	11177	HG2	ARG	746	37.562	69.981	111.234	0.00	0.00

ATOM	11178	HG3	ARG	746	38.202	71.581	110.742	0.00	0.00
ATOM	11179	CD	ARG	746	36.660	71.645	112.193	0.00	0.00
ATOM	11180	HD2	ARG	746	36.494	72.685	111.908	0.00	0.00
ATOM	11181	HD3	ARG	746	35.688	71.181	112.363	0.00	0.00
ATOM	11182	NE	ARG	746	37.381	71.570	113.439	0.00	0.00
ATOM	11183	HE	ARG	746	37.917	72.382	113.711	0.00	0.00
ATOM	11184	CZ	ARG	746	37.661	70.483	114.162	0.00	0.00
ATOM	11185	NH1	ARG	746	37.015	69.334	114.045	0.00	0.00
ATOM	11186	1HH1	ARG	746	37.072	68.583	114.718	0.00	0.00
ATOM	11187	2HH1	ARG	746	36.186	69.242	113.476	0.00	0.00
ATOM	11188	NH2	ARG	746	38.607	70.567	115.049	0.00	0.00
ATOM	11189	1HH2	ARG	746	38.855	69.695	115.495	0.00	0.00
ATOM	11190	2HH2	ARG	746	38.983	71.502	115.110	0.00	0.00
ATOM	11191	C	ARG	746	35.850	70.034	107.506	0.00	0.00
ATOM	11192	O	ARG	746	35.462	70.811	106.616	0.00	0.00
ATOM	11193	N	VAL	747	35.479	68.738	107.501	0.00	0.00
ATOM	11194	H	VAL	747	35.911	68.129	108.180	0.00	0.00
ATOM	11195	CA	VAL	747	34.397	68.189	106.685	0.00	0.00
ATOM	11196	HA	VAL	747	33.835	69.021	106.259	0.00	0.00
ATOM	11197	CB	VAL	747	34.843	67.340	105.496	0.00	0.00
ATOM	11198	HB	VAL	747	35.230	66.377	105.830	0.00	0.00
ATOM	11199	CG1	VAL	747	33.643	67.140	104.552	0.00	0.00
ATOM	11200	1HG1	VAL	747	33.930	66.548	103.683	0.00	0.00
ATOM	11201	2HG1	VAL	747	32.915	66.473	105.014	0.00	0.00
ATOM	11202	3HG1	VAL	747	33.162	68.068	104.241	0.00	0.00
ATOM	11203	CG2	VAL	747	35.881	68.112	104.639	0.00	0.00

ATOM	11204	1HG2	VAL	747	36.850	68.189	105.131	0.00	0.00
ATOM	11205	2HG2	VAL	747	36.136	67.563	103.732	0.00	0.00
ATOM	11206	3HG2	VAL	747	35.532	69.060	104.229	0.00	0.00
ATOM	11207	C	VAL	747	33.308	67.466	107.577	0.00	0.00
ATOM	11208	O	VAL	747	33.650	66.662	108.442	0.00	0.00
ATOM	11209	N	ASP	748	32.024	67.822	107.351	0.00	0.00
ATOM	11210	H	ASP	748	31.873	68.558	106.676	0.00	0.00
ATOM	11211	CA	ASP	748	31.002	67.630	108.311	0.00	0.00
ATOM	11212	HA	ASP	748	30.208	68.346	108.102	0.00	0.00
ATOM	11213	CB	ASP	748	30.364	66.261	108.014	0.00	0.00
ATOM	11214	HB2	ASP	748	30.198	66.192	106.938	0.00	0.00
ATOM	11215	HB3	ASP	748	31.075	65.496	108.323	0.00	0.00
ATOM	11216	CG	ASP	748	29.036	65.887	108.686	0.00	0.00
ATOM	11217	OD1	ASP	748	28.956	64.692	109.247	0.00	0.00
ATOM	11218	OD2	ASP	748	28.014	66.656	108.644	0.00	0.00
ATOM	11219	C	ASP	748	31.458	67.729	109.729	0.00	0.00
ATOM	11220	O	ASP	748	31.147	67.007	110.659	0.00	0.00
ATOM	11221	N	GLY	749	32.282	68.734	109.983	0.00	0.00
ATOM	11222	H	GLY	749	32.425	69.402	109.239	0.00	0.00
ATOM	11223	CA	GLY	749	32.709	69.205	111.265	0.00	0.00
ATOM	11224	HA2	GLY	749	32.889	70.280	111.269	0.00	0.00
ATOM	11225	HA3	GLY	749	31.982	69.088	112.069	0.00	0.00
ATOM	11226	C	GLY	749	34.001	68.544	111.748	0.00	0.00
ATOM	11227	O	GLY	749	34.697	69.051	112.607	0.00	0.00
ATOM	11228	N	GLU	750	34.458	67.429	111.154	0.00	0.00
ATOM	11229	H	GLU	750	34.312	67.209	110.179	0.00	0.00

ATOM	11230	CA	GLU	750	35.592	66.688	111.593	0.00	0.00
ATOM	11231	HA	GLU	750	35.759	66.895	112.650	0.00	0.00
ATOM	11232	CB	GLU	750	35.267	65.197	111.393	0.00	0.00
ATOM	11233	HB2	GLU	750	34.285	65.078	111.852	0.00	0.00
ATOM	11234	HB3	GLU	750	35.239	64.856	110.358	0.00	0.00
ATOM	11235	CG	GLU	750	36.299	64.191	112.006	0.00	0.00
ATOM	11236	HG2	GLU	750	35.917	63.187	111.826	0.00	0.00
ATOM	11237	HG3	GLU	750	37.265	64.255	111.506	0.00	0.00
ATOM	11238	CD	GLU	750	36.524	64.554	113.526	0.00	0.00
ATOM	11239	OE1	GLU	750	35.601	64.357	114.379	0.00	0.00
ATOM	11240	OE2	GLU	750	37.531	65.208	113.841	0.00	0.00
ATOM	11241	C	GLU	750	36.874	67.119	110.768	0.00	0.00
ATOM	11242	O	GLU	750	36.820	67.330	109.532	0.00	0.00
ATOM	11243	N	LEU	751	38.030	67.082	111.402	0.00	0.00
ATOM	11244	H	LEU	751	38.000	66.673	112.325	0.00	0.00
ATOM	11245	CA	LEU	751	39.360	67.080	110.765	0.00	0.00
ATOM	11246	HA	LEU	751	39.383	67.968	110.133	0.00	0.00
ATOM	11247	CB	LEU	751	40.445	67.066	111.830	0.00	0.00
ATOM	11248	HB2	LEU	751	40.347	66.141	112.399	0.00	0.00
ATOM	11249	HB3	LEU	751	41.379	67.117	111.269	0.00	0.00
ATOM	11250	CG	LEU	751	40.488	68.189	112.886	0.00	0.00
ATOM	11251	HG	LEU	751	39.575	68.095	113.474	0.00	0.00
ATOM	11252	CD1	LEU	751	41.731	67.976	113.748	0.00	0.00
ATOM	11253	1HD1	LEU	751	42.598	68.146	113.111	0.00	0.00
ATOM	11254	2HD1	LEU	751	41.749	68.679	114.581	0.00	0.00
ATOM	11255	3HD1	LEU	751	41.679	67.000	114.232	0.00	0.00

ATOM 11256 CD2 LEU 751 40.423 69.631 112.424 0.00 0.00  
ATOM 11257 1HD2 LEU 751 41.330 69.978 111.928 0.00 0.00  
ATOM 11258 2HD2 LEU 751 39.550 69.775 111.788 0.00 0.00  
ATOM 11259 3HD2 LEU 751 40.423 70.263 113.312 0.00 0.00  
ATOM 11260 C LEU 751 39.556 65.918 109.743 0.00 0.00  
ATOM 11261 O LEU 751 39.074 64.791 109.973 0.00 0.00  
ATOM 11262 N ILE 752 40.396 66.141 108.752 0.00 0.00  
ATOM 11263 H ILE 752 40.824 67.046 108.882 0.00 0.00  
ATOM 11264 CA ILE 752 40.542 65.358 107.540 0.00 0.00  
ATOM 11265 HA ILE 752 40.231 64.335 107.751 0.00 0.00  
ATOM 11266 CB ILE 752 39.752 65.941 106.347 0.00 0.00  
ATOM 11267 HB ILE 752 38.720 65.998 106.692 0.00 0.00  
ATOM 11268 CG2 ILE 752 40.224 67.339 106.004 0.00 0.00  
ATOM 11269 1HG2 ILE 752 40.001 67.962 106.870 0.00 0.00  
ATOM 11270 2HG2 ILE 752 41.289 67.408 105.785 0.00 0.00  
ATOM 11271 3HG2 ILE 752 39.671 67.756 105.162 0.00 0.00  
ATOM 11272 CG1 ILE 752 39.905 65.073 105.109 0.00 0.00  
ATOM 11273 2HG1 ILE 752 40.915 65.209 104.720 0.00 0.00  
ATOM 11274 3HG1 ILE 752 39.749 64.023 105.353 0.00 0.00  
ATOM 11275 CD1 ILE 752 38.880 65.423 104.026 0.00 0.00  
ATOM 11276 1HD1 ILE 752 37.883 65.566 104.444 0.00 0.00  
ATOM 11277 2HD1 ILE 752 39.193 66.375 103.597 0.00 0.00  
ATOM 11278 3HD1 ILE 752 38.859 64.641 103.268 0.00 0.00  
ATOM 11279 C ILE 752 42.085 65.175 107.235 0.00 0.00  
ATOM 11280 O ILE 752 42.528 64.194 106.635 0.00 0.00  
ATOM 11281 N THR 753 43.042 66.071 107.678 0.00 0.00

ATOM	11282	H	THR	753	42.655	66.874	108.153	0.00	0.00
ATOM	11283	CA	THR	753	44.534	65.982	107.425	0.00	0.00
ATOM	11284	HA	THR	753	44.584	65.871	106.341	0.00	0.00
ATOM	11285	CB	THR	753	45.302	67.256	107.768	0.00	0.00
ATOM	11286	HB	THR	753	46.389	67.236	107.689	0.00	0.00
ATOM	11287	CG2	THR	753	44.848	68.478	106.961	0.00	0.00
ATOM	11288	1HG2	THR	753	43.772	68.632	106.880	0.00	0.00
ATOM	11289	2HG2	THR	753	45.300	69.418	107.278	0.00	0.00
ATOM	11290	3HG2	THR	753	45.173	68.250	105.945	0.00	0.00
ATOM	11291	OG1	THR	753	44.993	67.533	109.150	0.00	0.00
ATOM	11292	HG1	THR	753	44.380	68.270	109.213	0.00	0.00
ATOM	11293	C	THR	753	45.058	64.729	108.145	0.00	0.00
ATOM	11294	O	THR	753	44.549	64.289	109.144	0.00	0.00
ATOM	11295	N	SER	754	46.125	64.189	107.618	0.00	0.00
ATOM	11296	H	SER	754	46.616	64.649	106.865	0.00	0.00
ATOM	11297	CA	SER	754	46.876	62.946	108.058	0.00	0.00
ATOM	11298	HA	SER	754	46.480	62.630	109.024	0.00	0.00
ATOM	11299	CB	SER	754	46.708	61.878	106.993	0.00	0.00
ATOM	11300	HB2	SER	754	47.040	60.885	107.298	0.00	0.00
ATOM	11301	HB3	SER	754	45.630	61.851	106.836	0.00	0.00
ATOM	11302	OG	SER	754	47.476	62.332	105.871	0.00	0.00
ATOM	11303	HG	SER	754	47.135	63.142	105.487	0.00	0.00
ATOM	11304	C	SER	754	48.340	63.211	108.347	0.00	0.00
ATOM	11305	O	SER	754	48.923	64.228	107.944	0.00	0.00
ATOM	11306	N	GLU	755	49.022	62.282	109.081	0.00	0.00
ATOM	11307	H	GLU	755	48.657	61.346	109.191	0.00	0.00

ATOM	11308	CA	GLU	755	50.386	62.448	109.652	0.00	0.00
ATOM	11309	HA	GLU	755	50.697	63.361	110.159	0.00	0.00
ATOM	11310	CB	GLU	755	50.687	61.283	110.533	0.00	0.00
ATOM	11311	HB2	GLU	755	50.424	60.383	109.977	0.00	0.00
ATOM	11312	HB3	GLU	755	51.739	61.164	110.796	0.00	0.00
ATOM	11313	CG	GLU	755	49.905	61.492	111.838	0.00	0.00
ATOM	11314	HG2	GLU	755	50.424	60.956	112.632	0.00	0.00
ATOM	11315	HG3	GLU	755	49.937	62.552	112.092	0.00	0.00
ATOM	11316	CD	GLU	755	48.356	61.047	111.819	0.00	0.00
ATOM	11317	OE1	GLU	755	47.501	61.719	112.521	0.00	0.00
ATOM	11318	OE2	GLU	755	47.946	60.115	111.041	0.00	0.00
ATOM	11319	C	GLU	755	51.451	62.373	108.465	0.00	0.00
ATOM	11320	O	GLU	755	51.221	61.588	107.513	0.00	0.00
ATOM	11321	N	PRO	756	52.571	63.135	108.525	0.00	0.00
ATOM	11322	CD	PRO	756	52.951	63.898	109.719	0.00	0.00
ATOM	11323	HD2	PRO	756	52.364	64.810	109.828	0.00	0.00
ATOM	11324	HD3	PRO	756	52.904	63.267	110.606	0.00	0.00
ATOM	11325	CG	PRO	756	54.366	64.460	109.522	0.00	0.00
ATOM	11326	HG2	PRO	756	54.512	65.462	109.926	0.00	0.00
ATOM	11327	HG3	PRO	756	55.063	63.718	109.910	0.00	0.00
ATOM	11328	CB	PRO	756	54.404	64.559	108.007	0.00	0.00
ATOM	11329	HB2	PRO	756	53.877	65.459	107.689	0.00	0.00
ATOM	11330	HB3	PRO	756	55.376	64.678	107.529	0.00	0.00
ATOM	11331	CA	PRO	756	53.556	63.433	107.419	0.00	0.00
ATOM	11332	HA	PRO	756	53.049	63.879	106.564	0.00	0.00
ATOM	11333	C	PRO	756	54.469	62.232	107.043	0.00	0.00

ATOM	11334	O	PRO	756	54.349	61.215	107.748	0.00	0.00
ATOM	11335	N	ALA	757	55.312	62.269	106.021	0.00	0.00
ATOM	11336	H	ALA	757	55.293	63.063	105.397	0.00	0.00
ATOM	11337	CA	ALA	757	56.200	61.088	105.575	0.00	0.00
ATOM	11338	HA	ALA	757	56.120	60.152	106.129	0.00	0.00
ATOM	11339	CB	ALA	757	55.697	60.679	104.232	0.00	0.00
ATOM	11340	HB1	ALA	757	56.049	59.652	104.128	0.00	0.00
ATOM	11341	HB2	ALA	757	54.610	60.726	104.176	0.00	0.00
ATOM	11342	HB3	ALA	757	56.140	61.242	103.410	0.00	0.00
ATOM	11343	C	ALA	757	57.778	61.327	105.498	0.00	0.00
ATOM	11344	O	ALA	757	58.238	62.464	105.325	0.00	0.00
ATOM	11345	N	ASP	758	58.623	60.385	105.901	0.00	0.00
ATOM	11346	H	ASP	758	58.247	59.518	106.258	0.00	0.00
ATOM	11347	CA	ASP	758	60.115	60.451	106.132	0.00	0.00
ATOM	11348	HA	ASP	758	60.447	61.480	106.272	0.00	0.00
ATOM	11349	CB	ASP	758	60.385	59.801	107.487	0.00	0.00
ATOM	11350	HB2	ASP	758	59.659	60.102	108.242	0.00	0.00
ATOM	11351	HB3	ASP	758	60.231	58.734	107.328	0.00	0.00
ATOM	11352	CG	ASP	758	61.793	60.000	107.975	0.00	0.00
ATOM	11353	OD1	ASP	758	62.468	59.012	108.368	0.00	0.00
ATOM	11354	OD2	ASP	758	62.308	61.144	108.050	0.00	0.00
ATOM	11355	C	ASP	758	60.849	59.845	104.896	0.00	0.00
ATOM	11356	O	ASP	758	61.912	60.264	104.543	0.00	0.00
ATOM	11357	N	VAL	759	60.193	58.906	104.208	0.00	0.00
ATOM	11358	H	VAL	759	59.217	58.853	104.464	0.00	0.00
ATOM	11359	CA	VAL	759	60.659	58.179	103.034	0.00	0.00



ATOM	11360	HA	VAL	759	61.370	58.775	102.461	0.00	0.00
ATOM	11361	CB	VAL	759	61.348	56.867	103.402	0.00	0.00
ATOM	11362	HB	VAL	759	60.603	56.168	103.783	0.00	0.00
ATOM	11363	CG1	VAL	759	62.137	56.224	102.225	0.00	0.00
ATOM	11364	1HG1	VAL	759	61.424	55.701	101.588	0.00	0.00
ATOM	11365	2HG1	VAL	759	62.662	56.980	101.641	0.00	0.00
ATOM	11366	3HG1	VAL	759	62.804	55.405	102.494	0.00	0.00
ATOM	11367	CG2	VAL	759	62.289	56.999	104.649	0.00	0.00
ATOM	11368	1HG2	VAL	759	61.686	57.403	105.462	0.00	0.00
ATOM	11369	2HG2	VAL	759	62.610	56.026	105.021	0.00	0.00
ATOM	11370	3HG2	VAL	759	63.142	57.669	104.543	0.00	0.00
ATOM	11371	C	VAL	759	59.511	57.902	102.028	0.00	0.00
ATOM	11372	O	VAL	759	58.447	57.480	102.459	0.00	0.00
ATOM	11373	N	LEU	760	59.720	58.008	100.737	0.00	0.00
ATOM	11374	H	LEU	760	60.586	58.402	100.399	0.00	0.00
ATOM	11375	CA	LEU	760	58.684	57.653	99.726	0.00	0.00
ATOM	11376	HA	LEU	760	57.905	57.007	100.130	0.00	0.00
ATOM	11377	CB	LEU	760	58.187	58.924	99.103	0.00	0.00
ATOM	11378	HB2	LEU	760	58.988	59.576	98.754	0.00	0.00
ATOM	11379	HB3	LEU	760	57.567	58.687	98.239	0.00	0.00
ATOM	11380	CG	LEU	760	57.251	59.649	100.049	0.00	0.00
ATOM	11381	HG	LEU	760	57.683	59.852	101.029	0.00	0.00
ATOM	11382	CD1	LEU	760	56.899	61.014	99.474	0.00	0.00
ATOM	11383	1HD1	LEU	760	56.225	61.489	100.186	0.00	0.00
ATOM	11384	2HD1	LEU	760	57.763	61.678	99.455	0.00	0.00
ATOM	11385	3HD1	LEU	760	56.474	61.009	98.470	0.00	0.00

ATOM	11386	CD2	LEU	760	55.966	58.822	100.362	0.00	0.00
ATOM	11387	1HD2	LEU	760	56.334	58.061	101.050	0.00	0.00
ATOM	11388	2HD2	LEU	760	55.187	59.493	100.724	0.00	0.00
ATOM	11389	3HD2	LEU	760	55.717	58.346	99.413	0.00	0.00
ATOM	11390	C	LEU	760	59.269	56.816	98.566	0.00	0.00
ATOM	11391	O	LEU	760	60.498	56.924	98.363	0.00	0.00
ATOM	11392	N	PRO	761	58.403	56.051	97.804	0.00	0.00
ATOM	11393	CD	PRO	761	57.053	55.673	98.117	0.00	0.00
ATOM	11394	HD2	PRO	761	56.424	56.503	98.440	0.00	0.00
ATOM	11395	HD3	PRO	761	56.941	54.815	98.780	0.00	0.00
ATOM	11396	CG	PRO	761	56.535	55.134	96.760	0.00	0.00
ATOM	11397	HG2	PRO	761	55.703	54.442	96.888	0.00	0.00
ATOM	11398	HG3	PRO	761	56.114	55.944	96.164	0.00	0.00
ATOM	11399	CB	PRO	761	57.720	54.538	96.142	0.00	0.00
ATOM	11400	HB2	PRO	761	58.031	53.570	96.535	0.00	0.00
ATOM	11401	HB3	PRO	761	57.525	54.404	95.078	0.00	0.00
ATOM	11402	CA	PRO	761	58.811	55.587	96.479	0.00	0.00
ATOM	11403	HA	PRO	761	59.704	54.965	96.543	0.00	0.00
ATOM	11404	C	PRO	761	58.938	56.686	95.399	0.00	0.00
ATOM	11405	O	PRO	761	58.638	57.911	95.521	0.00	0.00
ATOM	11406	N	MET	762	59.390	56.252	94.213	0.00	0.00
ATOM	11407	H	MET	762	59.677	55.296	94.064	0.00	0.00
ATOM	11408	CA	MET	762	59.676	57.112	93.042	0.00	0.00
ATOM	11409	HA	MET	762	60.086	56.550	92.203	0.00	0.00
ATOM	11410	CB	MET	762	58.388	57.742	92.416	0.00	0.00
ATOM	11411	HB2	MET	762	58.070	58.538	93.089	0.00	0.00

ATOM	11412	HB3	MET	762	58.598	58.317	91.514	0.00	0.00
ATOM	11413	CG	MET	762	57.142	56.833	92.225	0.00	0.00
ATOM	11414	HG2	MET	762	57.302	56.161	91.382	0.00	0.00
ATOM	11415	HG3	MET	762	56.994	56.137	93.051	0.00	0.00
ATOM	11416	SD	MET	762	55.673	57.915	91.978	0.00	0.00
ATOM	11417	CE	MET	762	55.837	58.184	90.204	0.00	0.00
ATOM	11418	HE1	MET	762	54.928	58.696	89.888	0.00	0.00
ATOM	11419	HE2	MET	762	56.673	58.823	89.918	0.00	0.00
ATOM	11420	HE3	MET	762	55.955	57.252	89.651	0.00	0.00
ATOM	11421	C	MET	762	60.760	58.138	93.338	0.00	0.00
ATOM	11422	O	MET	762	60.871	59.192	92.707	0.00	0.00
ATOM	11423	N	ALA	763	61.569	57.894	94.384	0.00	0.00
ATOM	11424	H	ALA	763	61.545	56.974	94.798	0.00	0.00
ATOM	11425	CA	ALA	763	62.658	58.812	94.807	0.00	0.00
ATOM	11426	HA	ALA	763	62.615	59.722	94.209	0.00	0.00
ATOM	11427	CB	ALA	763	62.379	59.026	96.294	0.00	0.00
ATOM	11428	HB1	ALA	763	62.254	58.049	96.760	0.00	0.00
ATOM	11429	HB2	ALA	763	63.139	59.656	96.757	0.00	0.00
ATOM	11430	HB3	ALA	763	61.443	59.559	96.462	0.00	0.00
ATOM	11431	C	ALA	763	64.118	58.334	94.481	0.00	0.00
ATOM	11432	O	ALA	763	64.436	57.875	93.385	0.00	0.00
ATOM	11433	N	GLN	764	64.998	58.419	95.515	0.00	0.00
ATOM	11434	H	GLN	764	64.610	58.558	96.437	0.00	0.00
ATOM	11435	CA	GLN	764	66.460	58.430	95.456	0.00	0.00
ATOM	11436	HA	GLN	764	66.750	59.349	94.947	0.00	0.00
ATOM	11437	CB	GLN	764	66.943	58.571	96.891	0.00	0.00

ATOM	11438	HB2	GLN	764	66.207	59.186	97.407	0.00	0.00
ATOM	11439	HB3	GLN	764	67.027	57.612	97.402	0.00	0.00
ATOM	11440	CG	GLN	764	68.399	59.049	96.905	0.00	0.00
ATOM	11441	HG2	GLN	764	69.039	58.340	96.380	0.00	0.00
ATOM	11442	HG3	GLN	764	68.572	60.025	96.452	0.00	0.00
ATOM	11443	CD	GLN	764	68.768	59.097	98.388	0.00	0.00
ATOM	11444	OE1	GLN	764	69.438	58.139	98.922	0.00	0.00
ATOM	11445	NE2	GLN	764	68.413	60.171	99.069	0.00	0.00
ATOM	11446	1HE2	GLN	764	68.801	60.258	99.997	0.00	0.00
ATOM	11447	2HE2	GLN	764	68.054	60.998	98.614	0.00	0.00
ATOM	11448	C	GLN	764	67.025	57.207	94.733	0.00	0.00
ATOM	11449	O	GLN	764	68.163	57.151	94.260	0.00	0.00
ATOM	11450	N	ARG	765	66.187	56.171	94.630	0.00	0.00
ATOM	11451	H	ARG	765	65.338	56.334	95.152	0.00	0.00
ATOM	11452	CA	ARG	765	66.417	54.903	93.868	0.00	0.00
ATOM	11453	HA	ARG	765	67.267	54.306	94.199	0.00	0.00
ATOM	11454	CB	ARG	765	65.137	54.015	94.002	0.00	0.00
ATOM	11455	HB2	ARG	765	64.670	54.085	94.984	0.00	0.00
ATOM	11456	HB3	ARG	765	64.359	54.368	93.325	0.00	0.00
ATOM	11457	CG	ARG	765	65.530	52.532	93.741	0.00	0.00
ATOM	11458	HG2	ARG	765	66.154	52.490	92.848	0.00	0.00
ATOM	11459	HG3	ARG	765	66.164	52.300	94.597	0.00	0.00
ATOM	11460	CD	ARG	765	64.354	51.473	93.738	0.00	0.00
ATOM	11461	HD2	ARG	765	63.917	51.487	92.740	0.00	0.00
ATOM	11462	HD3	ARG	765	64.743	50.456	93.791	0.00	0.00
ATOM	11463	NE	ARG	765	63.249	51.690	94.754	0.00	0.00

ATOM	11464	HE	ARG	765	62.379	52.007	94.350	0.00	0.00
ATOM	11465	CZ	ARG	765	63.206	51.405	95.987	0.00	0.00
ATOM	11466	NH1	ARG	765	64.227	50.885	96.533	0.00	0.00
ATOM	11467	1HH1	ARG	765	64.239	50.902	97.543	0.00	0.00
ATOM	11468	2HH1	ARG	765	65.014	50.674	95.935	0.00	0.00
ATOM	11469	NH2	ARG	765	62.228	51.789	96.796	0.00	0.00
ATOM	11470	1HH2	ARG	765	62.359	51.755	97.797	0.00	0.00
ATOM	11471	2HH2	ARG	765	61.397	52.223	96.420	0.00	0.00
ATOM	11472	C	ARG	765	66.743	55.121	92.377	0.00	0.00
ATOM	11473	O	ARG	765	67.609	54.412	91.837	0.00	0.00
ATOM	11474	N	TYR	766	66.248	56.109	91.708	0.00	0.00
ATOM	11475	H	TYR	766	65.642	56.733	92.221	0.00	0.00
ATOM	11476	CA	TYR	766	66.150	56.229	90.262	0.00	0.00
ATOM	11477	HA	TYR	766	66.599	55.325	89.849	0.00	0.00
ATOM	11478	CB	TYR	766	64.713	56.423	89.802	0.00	0.00
ATOM	11479	HB2	TYR	766	64.342	57.330	90.279	0.00	0.00
ATOM	11480	HB3	TYR	766	64.781	56.521	88.718	0.00	0.00
ATOM	11481	CG	TYR	766	63.653	55.314	90.106	0.00	0.00
ATOM	11482	CD1	TYR	766	62.811	55.511	91.216	0.00	0.00
ATOM	11483	HD1	TYR	766	62.828	56.450	91.750	0.00	0.00
ATOM	11484	CE1	TYR	766	61.791	54.605	91.576	0.00	0.00
ATOM	11485	HE1	TYR	766	61.289	54.719	92.526	0.00	0.00
ATOM	11486	CZ	TYR	766	61.573	53.510	90.792	0.00	0.00
ATOM	11487	OH	TYR	766	60.553	52.631	91.111	0.00	0.00
ATOM	11488	HH	TYR	766	60.048	52.930	91.871	0.00	0.00
ATOM	11489	CE2	TYR	766	62.440	53.215	89.699	0.00	0.00

ATOM	11490	HE2	TYR	766	62.485	52.240	89.236	0.00	0.00
ATOM	11491	CD2	TYR	766	63.503	54.096	89.395	0.00	0.00
ATOM	11492	HD2	TYR	766	64.194	53.836	88.606	0.00	0.00
ATOM	11493	C	TYR	766	67.052	57.321	89.616	0.00	0.00
ATOM	11494	O	TYR	766	67.304	57.275	88.440	0.00	0.00
ATOM	11495	N	PHE	767	67.438	58.307	90.435	0.00	0.00
ATOM	11496	H	PHE	767	67.123	58.318	91.394	0.00	0.00
ATOM	11497	CA	PHE	767	68.121	59.552	90.012	0.00	0.00
ATOM	11498	HA	PHE	767	68.117	59.617	88.924	0.00	0.00
ATOM	11499	CB	PHE	767	67.303	60.830	90.352	0.00	0.00
ATOM	11500	HB2	PHE	767	67.235	60.976	91.429	0.00	0.00
ATOM	11501	HB3	PHE	767	67.946	61.568	89.872	0.00	0.00
ATOM	11502	CG	PHE	767	65.965	60.955	89.589	0.00	0.00
ATOM	11503	CD1	PHE	767	64.738	60.280	90.046	0.00	0.00
ATOM	11504	HD1	PHE	767	64.763	59.671	90.938	0.00	0.00
ATOM	11505	CE1	PHE	767	63.517	60.299	89.315	0.00	0.00
ATOM	11506	HE1	PHE	767	62.578	59.936	89.706	0.00	0.00
ATOM	11507	CZ	PHE	767	63.484	61.029	88.157	0.00	0.00
ATOM	11508	HZ	PHE	767	62.561	61.140	87.607	0.00	0.00
ATOM	11509	CE2	PHE	767	64.621	61.684	87.732	0.00	0.00
ATOM	11510	HE2	PHE	767	64.459	62.175	86.784	0.00	0.00
ATOM	11511	CD2	PHE	767	65.908	61.546	88.356	0.00	0.00
ATOM	11512	HD2	PHE	767	66.636	62.248	87.977	0.00	0.00
ATOM	11513	C	PHE	767	69.543	59.626	90.593	0.00	0.00
ATOM	11514	O	PHE	767	69.684	59.667	91.843	0.00	0.00
ATOM	11515	N	LEU	768	70.609	59.707	89.830	0.00	0.00

ATOM	11516	H	LEU	768	70.485	59.688	88.828	0.00	0.00
ATOM	11517	CA	LEU	768	71.987	59.973	90.343	0.00	0.00
ATOM	11518	HA	LEU	768	72.341	59.140	90.950	0.00	0.00
ATOM	11519	CB	LEU	768	72.949	60.213	89.148	0.00	0.00
ATOM	11520	HB2	LEU	768	72.781	59.485	88.354	0.00	0.00
ATOM	11521	HB3	LEU	768	72.552	61.114	88.680	0.00	0.00
ATOM	11522	CG	LEU	768	74.421	60.308	89.348	0.00	0.00
ATOM	11523	HG	LEU	768	74.743	60.948	90.169	0.00	0.00
ATOM	11524	CD1	LEU	768	75.012	59.042	89.964	0.00	0.00
ATOM	11525	1HD1	LEU	768	75.025	58.215	89.255	0.00	0.00
ATOM	11526	2HD1	LEU	768	76.072	59.239	90.129	0.00	0.00
ATOM	11527	3HD1	LEU	768	74.546	58.987	90.948	0.00	0.00
ATOM	11528	CD2	LEU	768	75.101	60.794	88.069	0.00	0.00
ATOM	11529	1HD2	LEU	768	75.151	60.040	87.284	0.00	0.00
ATOM	11530	2HD2	LEU	768	74.586	61.701	87.753	0.00	0.00
ATOM	11531	3HD2	LEU	768	76.161	60.936	88.282	0.00	0.00
ATOM	11532	C	LEU	768	72.013	61.209	91.289	0.00	0.00
ATOM	11533	O	LEU	768	72.894	61.202	92.178	0.00	0.00
ATOM	11534	N	PHC	769	71.186	62.201	91.076	0.00	0.00
ATOM	11535	H	PHC	769	70.371	61.960	90.531	0.00	0.00
ATOM	11536	CA	PHC	769	71.070	63.433	91.872	0.00	0.00
ATOM	11537	HA	PHC	769	71.464	63.150	92.848	0.00	0.00
ATOM	11538	CB	PHC	769	71.960	64.407	91.150	0.00	0.00
ATOM	11539	HB2	PHC	769	71.843	64.293	90.073	0.00	0.00
ATOM	11540	HB3	PHC	769	71.613	65.433	91.272	0.00	0.00
ATOM	11541	CG	PHC	769	73.450	64.333	91.334	0.00	0.00

ATOM	11542	CD1	PHC	769	74.256	63.757	90.289	0.00	0.00
ATOM	11543	HD1	PHC	769	73.765	63.358	89.414	0.00	0.00
ATOM	11544	CE1	PHC	769	75.621	63.781	90.318	0.00	0.00
ATOM	11545	HE1	PHC	769	76.285	63.462	89.528	0.00	0.00
ATOM	11546	CZ	PHC	769	76.260	64.175	91.499	0.00	0.00
ATOM	11547	HZ	PHC	769	77.339	64.208	91.486	0.00	0.00
ATOM	11548	CE2	PHC	769	75.504	64.585	92.609	0.00	0.00
ATOM	11549	HE2	PHC	769	75.972	64.906	93.528	0.00	0.00
ATOM	11550	CD2	PHC	769	74.117	64.689	92.506	0.00	0.00
ATOM	11551	HD2	PHC	769	73.550	65.010	93.368	0.00	0.00
ATOM	11552	C	PHC	769	69.647	63.999	91.985	0.00	0.00
ATOM	11553	O	PHC	769	68.809	63.635	91.119	0.00	0.00
ATOM	11554	OXT	PHC	769	69.335	64.708	92.916	0.00	0.00
ATOM	11555	O	ONB	770	52.735	81.299	92.932	0.00	0.00
ATOM	11556	H1	ONB	770	52.711	80.342	93.004	0.00	0.00
ATOM	11557	H1	ON1	771	52.659	82.804	92.473	0.00	0.00
ATOM	11558	O	ON1	771	52.579	83.124	93.429	0.00	0.00
ATOM	11559	H2	ON1	771	53.197	82.525	93.962	0.00	0.00
ATOM	11560	H1	ON2	772	54.574	82.786	92.081	0.00	0.00
ATOM	11561	O	ON2	772	54.978	81.862	92.161	0.00	0.00
ATOM	11562	H2	ON2	772	54.570	81.311	92.905	0.00	0.00
TER	0			0					
ATOM	11563	NI	NI1	773	70.369	45.139	56.511	0.00	0.00
ATOM	11564	NI	NI2	774	70.778	48.246	58.039	0.00	0.00
ATOM	11565	N	MEN	775	78.581	82.201	92.280	0.00	0.00
ATOM	11566	H1	MEN	775	77.669	82.379	91.883	0.00	0.00



ATOM	11567	H2	MEN	775	79.020	83.092	92.095	0.00	0.00
ATOM	11568	H3	MEN	775	78.567	82.015	93.273	0.00	0.00
ATOM	11569	CA	MEN	775	79.300	81.090	91.704	0.00	0.00
ATOM	11570	HA	MEN	775	80.270	81.005	92.193	0.00	0.00
ATOM	11571	CB	MEN	775	78.530	79.756	91.945	0.00	0.00
ATOM	11572	HB2	MEN	775	78.218	79.819	92.988	0.00	0.00
ATOM	11573	HB3	MEN	775	77.571	79.684	91.432	0.00	0.00
ATOM	11574	CG	MEN	775	79.289	78.451	91.832	0.00	0.00
ATOM	11575	HG2	MEN	775	80.193	78.492	92.441	0.00	0.00
ATOM	11576	HG3	MEN	775	78.705	77.661	92.304	0.00	0.00
ATOM	11577	SD	MEN	775	79.873	77.877	90.249	0.00	0.00
ATOM	11578	CE	MEN	775	80.668	76.351	90.942	0.00	0.00
ATOM	11579	HE1	MEN	775	81.522	76.671	91.538	0.00	0.00
ATOM	11580	HE2	MEN	775	79.881	75.813	91.470	0.00	0.00
ATOM	11581	HE3	MEN	775	80.976	75.713	90.114	0.00	0.00
ATOM	11582	C	MEN	775	79.593	81.385	90.235	0.00	0.00
ATOM	11583	O	MEN	775	80.683	81.624	89.837	0.00	0.00
ATOM	11584	N	GLU	776	78.548	81.445	89.373	0.00	0.00
ATOM	11585	H	GLU	776	77.632	81.355	89.789	0.00	0.00
ATOM	11586	CA	GLU	776	78.595	81.951	88.022	0.00	0.00
ATOM	11587	HA	GLU	776	77.666	81.693	87.514	0.00	0.00
ATOM	11588	CB	GLU	776	78.730	83.502	88.115	0.00	0.00
ATOM	11589	HB2	GLU	776	79.531	83.805	88.791	0.00	0.00
ATOM	11590	HB3	GLU	776	78.933	83.891	87.117	0.00	0.00
ATOM	11591	CG	GLU	776	77.544	84.361	88.628	0.00	0.00
ATOM	11592	HG2	GLU	776	77.821	85.408	88.505	0.00	0.00

ATOM	11593	HG3	GLU	776	76.585	84.236	88.125	0.00	0.00
ATOM	11594	CD	GLU	776	77.367	84.011	90.144	0.00	0.00
ATOM	11595	OE1	GLU	776	76.558	83.097	90.431	0.00	0.00
ATOM	11596	OE2	GLU	776	78.152	84.556	90.892	0.00	0.00
ATOM	11597	C	GLU	776	79.690	81.293	87.177	0.00	0.00
ATOM	11598	O	GLU	776	80.667	81.868	86.721	0.00	0.00
ATOM	11599	N	LEU	777	79.627	79.956	87.166	0.00	0.00
ATOM	11600	H	LEU	777	78.905	79.448	87.656	0.00	0.00
ATOM	11601	CA	LEU	777	80.633	79.215	86.429	0.00	0.00
ATOM	11602	HA	LEU	777	81.622	79.440	86.827	0.00	0.00
ATOM	11603	CB	LEU	777	80.525	77.693	86.682	0.00	0.00
ATOM	11604	HB2	LEU	777	80.080	77.462	87.651	0.00	0.00
ATOM	11605	HB3	LEU	777	79.945	77.222	85.889	0.00	0.00
ATOM	11606	CG	LEU	777	81.913	77.075	86.553	0.00	0.00
ATOM	11607	HG	LEU	777	82.390	77.375	85.620	0.00	0.00
ATOM	11608	CD1	LEU	777	82.843	77.401	87.774	0.00	0.00
ATOM	11609	1HD1	LEU	777	82.345	77.207	88.725	0.00	0.00
ATOM	11610	2HD1	LEU	777	83.812	76.907	87.706	0.00	0.00
ATOM	11611	3HD1	LEU	777	83.142	78.449	87.788	0.00	0.00
ATOM	11612	CD2	LEU	777	81.882	75.560	86.482	0.00	0.00
ATOM	11613	1HD2	LEU	777	81.157	75.130	85.792	0.00	0.00
ATOM	11614	2HD2	LEU	777	82.878	75.175	86.262	0.00	0.00
ATOM	11615	3HD2	LEU	777	81.697	75.204	87.496	0.00	0.00
ATOM	11616	C	LEU	777	80.570	79.647	84.969	0.00	0.00
ATOM	11617	O	LEU	777	79.526	79.363	84.390	0.00	0.00
ATOM	11618	N	THR	778	81.612	80.163	84.300	0.00	0.00

ATOM	11619	H	THR	778	82.379	80.482	84.876	0.00	0.00
ATOM	11620	CA	THR	778	81.503	80.716	82.899	0.00	0.00
ATOM	11621	HA	THR	778	80.519	81.167	82.771	0.00	0.00
ATOM	11622	CB	THR	778	82.454	81.941	82.688	0.00	0.00
ATOM	11623	HB	THR	778	82.354	82.300	81.664	0.00	0.00
ATOM	11624	CG2	THR	778	82.128	83.092	83.676	0.00	0.00
ATOM	11625	1HG2	THR	778	82.696	83.924	83.259	0.00	0.00
ATOM	11626	2HG2	THR	778	81.066	83.295	83.539	0.00	0.00
ATOM	11627	3HG2	THR	778	82.368	82.889	84.720	0.00	0.00
ATOM	11628	OG1	THR	778	83.732	81.436	82.846	0.00	0.00
ATOM	11629	HG1	THR	778	83.811	81.323	83.796	0.00	0.00
ATOM	11630	C	THR	778	81.733	79.590	81.875	0.00	0.00
ATOM	11631	O	THR	778	82.376	78.601	82.141	0.00	0.00
ATOM	11632	N	PRO	779	81.305	79.731	80.572	0.00	0.00
ATOM	11633	CD	PRO	779	80.178	80.605	80.232	0.00	0.00
ATOM	11634	HD2	PRO	779	80.509	81.620	80.014	0.00	0.00
ATOM	11635	HD3	PRO	779	79.321	80.532	80.901	0.00	0.00
ATOM	11636	CG	PRO	779	79.604	80.054	78.902	0.00	0.00
ATOM	11637	HG2	PRO	779	78.783	79.365	79.100	0.00	0.00
ATOM	11638	HG3	PRO	779	79.417	80.867	78.200	0.00	0.00
ATOM	11639	CB	PRO	779	80.859	79.382	78.327	0.00	0.00
ATOM	11640	HB2	PRO	779	80.542	78.613	77.623	0.00	0.00
ATOM	11641	HB3	PRO	779	81.549	80.072	77.841	0.00	0.00
ATOM	11642	CA	PRO	779	81.560	78.750	79.504	0.00	0.00
ATOM	11643	HA	PRO	779	81.008	77.856	79.794	0.00	0.00
ATOM	11644	C	PRO	779	83.063	78.395	79.394	0.00	0.00

ATOM	11645	O	PRO	779	83.216	77.185	79.427	0.00	0.00
ATOM	11646	N	ARG	780	83.970	79.317	79.489	0.00	0.00
ATOM	11647	H	ARG	780	83.549	80.235	79.504	0.00	0.00
ATOM	11648	CA	ARG	780	85.462	79.128	79.605	0.00	0.00
ATOM	11649	HA	ARG	780	85.839	78.686	78.683	0.00	0.00
ATOM	11650	CB	ARG	780	86.120	80.515	79.721	0.00	0.00
ATOM	11651	HB2	ARG	780	85.835	81.021	78.798	0.00	0.00
ATOM	11652	HB3	ARG	780	85.696	81.002	80.598	0.00	0.00
ATOM	11653	CG	ARG	780	87.656	80.315	79.789	0.00	0.00
ATOM	11654	HG2	ARG	780	87.953	79.869	78.840	0.00	0.00
ATOM	11655	HG3	ARG	780	87.949	79.640	80.594	0.00	0.00
ATOM	11656	CD	ARG	780	88.358	81.621	80.128	0.00	0.00
ATOM	11657	HD2	ARG	780	89.237	81.644	79.484	0.00	0.00
ATOM	11658	HD3	ARG	780	87.640	82.426	79.974	0.00	0.00
ATOM	11659	NE	ARG	780	88.744	81.744	81.559	0.00	0.00
ATOM	11660	HE	ARG	780	88.926	80.891	82.069	0.00	0.00
ATOM	11661	CZ	ARG	780	89.079	82.896	82.121	0.00	0.00
ATOM	11662	NH1	ARG	780	89.460	82.990	83.336	0.00	0.00
ATOM	11663	1HH1	ARG	780	89.907	83.846	83.632	0.00	0.00
ATOM	11664	2HH1	ARG	780	89.644	82.096	83.768	0.00	0.00
ATOM	11665	NH2	ARG	780	88.809	84.083	81.648	0.00	0.00
ATOM	11666	1HH2	ARG	780	88.953	84.867	82.268	0.00	0.00
ATOM	11667	2HH2	ARG	780	88.333	84.181	80.762	0.00	0.00
ATOM	11668	C	ARG	780	85.814	78.249	80.712	0.00	0.00
ATOM	11669	O	ARG	780	86.599	77.350	80.530	0.00	0.00
ATOM	11670	N	GLU	781	85.205	78.435	81.872	0.00	0.00

ATOM	11671	H	GLU	781	84.415	79.063	81.896	0.00	0.00
ATOM	11672	CA	GLU	781	85.501	77.633	83.086	0.00	0.00
ATOM	11673	HA	GLU	781	86.573	77.606	83.283	0.00	0.00
ATOM	11674	CB	GLU	781	84.925	78.333	84.343	0.00	0.00
ATOM	11675	HB2	GLU	781	83.913	78.668	84.117	0.00	0.00
ATOM	11676	HB3	GLU	781	84.735	77.579	85.108	0.00	0.00
ATOM	11677	CG	GLU	781	85.721	79.516	84.883	0.00	0.00
ATOM	11678	HG2	GLU	781	86.727	79.198	85.158	0.00	0.00
ATOM	11679	HG3	GLU	781	86.052	80.110	84.031	0.00	0.00
ATOM	11680	CD	GLU	781	84.928	80.393	85.818	0.00	0.00
ATOM	11681	OE1	GLU	781	85.218	80.336	87.060	0.00	0.00
ATOM	11682	OE2	GLU	781	83.966	81.102	85.391	0.00	0.00
ATOM	11683	C	GLU	781	84.943	76.217	82.949	0.00	0.00
ATOM	11684	O	GLU	781	85.613	75.221	83.259	0.00	0.00
ATOM	11685	N	LYS	782	83.772	76.065	82.255	0.00	0.00
ATOM	11686	H	LYS	782	83.265	76.903	82.009	0.00	0.00
ATOM	11687	CA	LYS	782	83.190	74.718	81.985	0.00	0.00
ATOM	11688	HA	LYS	782	83.441	74.070	82.824	0.00	0.00
ATOM	11689	CB	LYS	782	81.640	74.887	81.857	0.00	0.00
ATOM	11690	HB2	LYS	782	81.487	75.557	81.010	0.00	0.00
ATOM	11691	HB3	LYS	782	81.206	73.943	81.529	0.00	0.00
ATOM	11692	CG	LYS	782	80.784	75.386	83.040	0.00	0.00
ATOM	11693	HG2	LYS	782	80.661	74.603	83.788	0.00	0.00
ATOM	11694	HG3	LYS	782	81.265	76.289	83.414	0.00	0.00
ATOM	11695	CD	LYS	782	79.417	76.003	82.710	0.00	0.00
ATOM	11696	HD2	LYS	782	79.039	76.448	83.630	0.00	0.00

ATOM	11697	HD3	LYS	782	79.548	76.732	81.909	0.00	0.00
ATOM	11698	CE	LYS	782	78.400	74.896	82.343	0.00	0.00
ATOM	11699	HE2	LYS	782	78.892	74.260	81.607	0.00	0.00
ATOM	11700	HE3	LYS	782	78.060	74.337	83.215	0.00	0.00
ATOM	11701	NZ	LYS	782	77.338	75.483	81.548	0.00	0.00
ATOM	11702	HZ1	LYS	782	77.826	76.022	80.846	0.00	0.00
ATOM	11703	HZ2	LYS	782	76.860	74.781	81.002	0.00	0.00
ATOM	11704	HZ3	LYS	782	76.766	76.039	82.167	0.00	0.00
ATOM	11705	C	LYS	782	83.880	73.988	80.859	0.00	0.00
ATOM	11706	O	LYS	782	83.807	72.796	80.842	0.00	0.00
ATOM	11707	N	ASP	783	84.529	74.590	79.892	0.00	0.00
ATOM	11708	H	ASP	783	84.439	75.596	79.908	0.00	0.00
ATOM	11709	CA	ASP	783	85.195	73.937	78.820	0.00	0.00
ATOM	11710	HA	ASP	783	84.659	73.123	78.331	0.00	0.00
ATOM	11711	CB	ASP	783	85.547	74.954	77.680	0.00	0.00
ATOM	11712	HB2	ASP	783	86.338	75.624	78.018	0.00	0.00
ATOM	11713	HB3	ASP	783	84.624	75.498	77.483	0.00	0.00
ATOM	11714	CG	ASP	783	85.828	74.366	76.307	0.00	0.00
ATOM	11715	OD1	ASP	783	86.715	74.989	75.686	0.00	0.00
ATOM	11716	OD2	ASP	783	85.159	73.410	75.889	0.00	0.00
ATOM	11717	C	ASP	783	86.482	73.350	79.416	0.00	0.00
ATOM	11718	O	ASP	783	86.790	72.179	79.313	0.00	0.00
ATOM	11719	N	LYS	784	87.320	74.118	80.174	0.00	0.00
ATOM	11720	H	LYS	784	87.117	75.102	80.283	0.00	0.00
ATOM	11721	CA	LYS	784	88.593	73.578	80.719	0.00	0.00
ATOM	11722	HA	LYS	784	89.100	73.163	79.847	0.00	0.00

ATOM	11723	CB	LYS	784	89.433	74.714	81.242	0.00	0.00
ATOM	11724	HB2	LYS	784	88.744	75.373	81.770	0.00	0.00
ATOM	11725	HB3	LYS	784	90.224	74.319	81.880	0.00	0.00
ATOM	11726	CG	LYS	784	89.943	75.612	80.122	0.00	0.00
ATOM	11727	HG2	LYS	784	90.645	75.097	79.467	0.00	0.00
ATOM	11728	HG3	LYS	784	89.105	75.866	79.473	0.00	0.00
ATOM	11729	CD	LYS	784	90.635	76.893	80.571	0.00	0.00
ATOM	11730	HD2	LYS	784	90.059	77.521	81.250	0.00	0.00
ATOM	11731	HD3	LYS	784	91.651	76.748	80.939	0.00	0.00
ATOM	11732	CE	LYS	784	90.833	77.638	79.219	0.00	0.00
ATOM	11733	HE2	LYS	784	91.254	76.954	78.482	0.00	0.00
ATOM	11734	HE3	LYS	784	89.822	77.888	78.896	0.00	0.00
ATOM	11735	NZ	LYS	784	91.678	78.847	79.379	0.00	0.00
ATOM	11736	HZ1	LYS	784	91.724	79.372	78.518	0.00	0.00
ATOM	11737	HZ2	LYS	784	91.447	79.337	80.231	0.00	0.00
ATOM	11738	HZ3	LYS	784	92.551	78.447	79.692	0.00	0.00
ATOM	11739	C	LYS	784	88.446	72.532	81.790	0.00	0.00
ATOM	11740	O	LYS	784	89.323	71.692	81.948	0.00	0.00
ATOM	11741	N	LEU	785	87.268	72.582	82.467	0.00	0.00
ATOM	11742	H	LEU	785	86.761	73.420	82.217	0.00	0.00
ATOM	11743	CA	LEU	785	86.932	71.586	83.498	0.00	0.00
ATOM	11744	HA	LEU	785	87.716	71.553	84.254	0.00	0.00
ATOM	11745	CB	LEU	785	85.690	72.046	84.277	0.00	0.00
ATOM	11746	HB2	LEU	785	85.879	73.079	84.568	0.00	0.00
ATOM	11747	HB3	LEU	785	84.904	72.144	83.528	0.00	0.00
ATOM	11748	CG	LEU	785	85.200	71.236	85.522	0.00	0.00

ATOM	11749	HG	LEU	785	84.959	70.217	85.220	0.00	0.00
ATOM	11750	CD1	LEU	785	86.279	71.075	86.560	0.00	0.00
ATOM	11751	1HD1	LEU	785	86.682	71.998	86.976	0.00	0.00
ATOM	11752	2HD1	LEU	785	85.790	70.423	87.285	0.00	0.00
ATOM	11753	3HD1	LEU	785	87.116	70.503	86.160	0.00	0.00
ATOM	11754	CD2	LEU	785	84.109	72.043	86.128	0.00	0.00
ATOM	11755	1HD2	LEU	785	83.688	71.532	86.993	0.00	0.00
ATOM	11756	2HD2	LEU	785	84.467	73.024	86.439	0.00	0.00
ATOM	11757	3HD2	LEU	785	83.384	72.211	85.332	0.00	0.00
ATOM	11758	C	LEU	785	86.685	70.199	82.862	0.00	0.00
ATOM	11759	O	LEU	785	86.920	69.206	83.565	0.00	0.00
ATOM	11760	N	LEU	786	86.473	70.189	81.565	0.00	0.00
ATOM	11761	H	LEU	786	86.367	71.045	81.039	0.00	0.00
ATOM	11762	CA	LEU	786	86.457	68.971	80.773	0.00	0.00
ATOM	11763	HA	LEU	786	85.979	68.256	81.442	0.00	0.00
ATOM	11764	CB	LEU	786	85.415	69.173	79.591	0.00	0.00
ATOM	11765	HB2	LEU	786	84.525	69.698	79.938	0.00	0.00
ATOM	11766	HB3	LEU	786	85.900	69.868	78.905	0.00	0.00
ATOM	11767	CG	LEU	786	85.168	67.971	78.802	0.00	0.00
ATOM	11768	HG	LEU	786	86.156	67.721	78.417	0.00	0.00
ATOM	11769	CD1	LEU	786	84.476	66.917	79.618	0.00	0.00
ATOM	11770	1HD1	LEU	786	83.420	67.149	79.758	0.00	0.00
ATOM	11771	2HD1	LEU	786	84.386	65.946	79.131	0.00	0.00
ATOM	11772	3HD1	LEU	786	85.028	66.764	80.545	0.00	0.00
ATOM	11773	CD2	LEU	786	84.168	68.172	77.676	0.00	0.00
ATOM	11774	1HD2	LEU	786	84.639	68.703	76.848	0.00	0.00



ATOM	11775	2HD2	LEU	786	83.873	67.213	77.250	0.00	0.00
ATOM	11776	3HD2	LEU	786	83.264	68.634	78.075	0.00	0.00
ATOM	11777	C	LEU	786	87.861	68.562	80.338	0.00	0.00
ATOM	11778	O	LEU	786	88.113	67.402	80.379	0.00	0.00
ATOM	11779	N	LEU	787	88.807	69.457	80.269	0.00	0.00
ATOM	11780	H	LEU	787	88.567	70.382	80.597	0.00	0.00
ATOM	11781	CA	LEU	787	90.223	69.062	80.146	0.00	0.00
ATOM	11782	HA	LEU	787	90.286	68.350	79.324	0.00	0.00
ATOM	11783	CB	LEU	787	91.077	70.308	79.728	0.00	0.00
ATOM	11784	HB2	LEU	787	90.533	70.812	78.929	0.00	0.00
ATOM	11785	HB3	LEU	787	91.086	71.074	80.502	0.00	0.00
ATOM	11786	CG	LEU	787	92.553	69.971	79.314	0.00	0.00
ATOM	11787	HG	LEU	787	92.809	70.699	78.544	0.00	0.00
ATOM	11788	CD1	LEU	787	93.456	69.993	80.544	0.00	0.00
ATOM	11789	1HD1	LEU	787	93.267	70.899	81.119	0.00	0.00
ATOM	11790	2HD1	LEU	787	93.310	69.152	81.222	0.00	0.00
ATOM	11791	3HD1	LEU	787	94.418	70.120	80.047	0.00	0.00
ATOM	11792	CD2	LEU	787	92.733	68.695	78.495	0.00	0.00
ATOM	11793	1HD2	LEU	787	93.791	68.588	78.255	0.00	0.00
ATOM	11794	2HD2	LEU	787	92.511	67.838	79.130	0.00	0.00
ATOM	11795	3HD2	LEU	787	92.053	68.757	77.645	0.00	0.00
ATOM	11796	C	LEU	787	90.695	68.373	81.402	0.00	0.00
ATOM	11797	O	LEU	787	91.156	67.225	81.419	0.00	0.00
ATOM	11798	N	PHE	788	90.631	69.020	82.562	0.00	0.00
ATOM	11799	H	PHE	788	90.367	69.991	82.484	0.00	0.00
ATOM	11800	CA	PHE	788	90.828	68.419	83.881	0.00	0.00

ATOM	11801	HA	PHE	788	91.896	68.354	84.089	0.00	0.00
ATOM	11802	CB	PHE	788	90.467	69.437	84.941	0.00	0.00
ATOM	11803	HB2	PHE	788	91.257	70.187	84.907	0.00	0.00
ATOM	11804	HB3	PHE	788	89.516	69.877	84.643	0.00	0.00
ATOM	11805	CG	PHE	788	90.309	68.830	86.318	0.00	0.00
ATOM	11806	CD1	PHE	788	91.429	68.564	87.091	0.00	0.00
ATOM	11807	HD1	PHE	788	92.385	68.992	86.828	0.00	0.00
ATOM	11808	CE1	PHE	788	91.207	67.926	88.324	0.00	0.00
ATOM	11809	HE1	PHE	788	91.963	67.937	89.095	0.00	0.00
ATOM	11810	CZ	PHE	788	89.966	67.369	88.647	0.00	0.00
ATOM	11811	HZ	PHE	788	89.820	66.897	89.608	0.00	0.00
ATOM	11812	CE2	PHE	788	88.879	67.612	87.844	0.00	0.00
ATOM	11813	HE2	PHE	788	87.928	67.232	88.188	0.00	0.00
ATOM	11814	CD2	PHE	788	89.004	68.308	86.631	0.00	0.00
ATOM	11815	HD2	PHE	788	88.236	68.454	85.886	0.00	0.00
ATOM	11816	C	PHE	788	90.225	67.035	84.081	0.00	0.00
ATOM	11817	O	PHE	788	90.901	66.105	84.471	0.00	0.00
ATOM	11818	N	THR	789	88.945	66.817	83.647	0.00	0.00
ATOM	11819	H	THR	789	88.527	67.651	83.259	0.00	0.00
ATOM	11820	CA	THR	789	88.174	65.609	83.734	0.00	0.00
ATOM	11821	HA	THR	789	87.980	65.283	84.756	0.00	0.00
ATOM	11822	CB	THR	789	86.785	65.740	83.137	0.00	0.00
ATOM	11823	HB	THR	789	86.862	66.166	82.137	0.00	0.00
ATOM	11824	CG2	THR	789	85.868	64.518	83.248	0.00	0.00
ATOM	11825	1HG2	THR	789	86.286	63.731	82.620	0.00	0.00
ATOM	11826	2HG2	THR	789	85.935	64.099	84.252	0.00	0.00

ATOM	11827	3HG2	THR	789	84.865	64.911	83.079	0.00	0.00
ATOM	11828	OG1	THR	789	86.215	66.629	84.055	0.00	0.00
ATOM	11829	HG1	THR	789	86.676	67.465	83.958	0.00	0.00
ATOM	11830	C	THR	789	88.888	64.433	82.944	0.00	0.00
ATOM	11831	O	THR	789	88.859	63.260	83.374	0.00	0.00
ATOM	11832	N	ALA	790	89.531	64.671	81.802	0.00	0.00
ATOM	11833	H	ALA	790	89.532	65.628	81.480	0.00	0.00
ATOM	11834	CA	ALA	790	90.288	63.712	80.920	0.00	0.00
ATOM	11835	HA	ALA	790	89.743	62.770	80.862	0.00	0.00
ATOM	11836	CB	ALA	790	90.431	64.288	79.484	0.00	0.00
ATOM	11837	HB1	ALA	790	89.501	64.274	78.916	0.00	0.00
ATOM	11838	HB2	ALA	790	90.751	65.329	79.444	0.00	0.00
ATOM	11839	HB3	ALA	790	91.274	63.789	79.006	0.00	0.00
ATOM	11840	C	ALA	790	91.645	63.293	81.508	0.00	0.00
ATOM	11841	O	ALA	790	91.950	62.090	81.599	0.00	0.00
ATOM	11842	N	ALA	791	92.372	64.319	81.945	0.00	0.00
ATOM	11843	H	ALA	791	92.092	65.280	81.807	0.00	0.00
ATOM	11844	CA	ALA	791	93.560	64.217	82.797	0.00	0.00
ATOM	11845	HA	ALA	791	94.355	63.727	82.235	0.00	0.00
ATOM	11846	CB	ALA	791	94.076	65.606	83.075	0.00	0.00
ATOM	11847	HB1	ALA	791	93.328	66.181	83.621	0.00	0.00
ATOM	11848	HB2	ALA	791	94.962	65.579	83.709	0.00	0.00
ATOM	11849	HB3	ALA	791	94.451	65.999	82.130	0.00	0.00
ATOM	11850	C	ALA	791	93.184	63.387	84.011	0.00	0.00
ATOM	11851	O	ALA	791	94.047	62.561	84.347	0.00	0.00
ATOM	11852	N	LEU	792	91.975	63.540	84.634	0.00	0.00

ATOM	11853	H	LEU	792	91.397	64.306	84.320	0.00	0.00
ATOM	11854	CA	LEU	792	91.694	62.706	85.812	0.00	0.00
ATOM	11855	HA	LEU	792	92.518	62.808	86.518	0.00	0.00
ATOM	11856	CB	LEU	792	90.445	63.311	86.548	0.00	0.00
ATOM	11857	HB2	LEU	792	90.541	64.396	86.596	0.00	0.00
ATOM	11858	HB3	LEU	792	89.573	63.080	85.937	0.00	0.00
ATOM	11859	CG	LEU	792	90.046	62.879	87.985	0.00	0.00
ATOM	11860	HG	LEU	792	89.731	61.837	88.036	0.00	0.00
ATOM	11861	CD1	LEU	792	91.219	62.967	88.997	0.00	0.00
ATOM	11862	1HD1	LEU	792	91.414	64.016	89.221	0.00	0.00
ATOM	11863	2HD1	LEU	792	90.813	62.509	89.899	0.00	0.00
ATOM	11864	3HD1	LEU	792	92.075	62.420	88.603	0.00	0.00
ATOM	11865	CD2	LEU	792	88.833	63.679	88.515	0.00	0.00
ATOM	11866	1HD2	LEU	792	88.730	63.377	89.557	0.00	0.00
ATOM	11867	2HD2	LEU	792	89.070	64.740	88.433	0.00	0.00
ATOM	11868	3HD2	LEU	792	87.903	63.483	87.982	0.00	0.00
ATOM	11869	C	LEU	792	91.465	61.238	85.546	0.00	0.00
ATOM	11870	O	LEU	792	91.634	60.458	86.535	0.00	0.00
ATOM	11871	N	VAL	793	91.062	60.874	84.356	0.00	0.00
ATOM	11872	H	VAL	793	90.866	61.619	83.702	0.00	0.00
ATOM	11873	CA	VAL	793	91.056	59.440	83.928	0.00	0.00
ATOM	11874	HA	VAL	793	90.924	58.906	84.869	0.00	0.00
ATOM	11875	CB	VAL	793	89.815	59.110	82.971	0.00	0.00
ATOM	11876	HB	VAL	793	88.987	59.516	83.551	0.00	0.00
ATOM	11877	CG1	VAL	793	89.898	59.877	81.692	0.00	0.00
ATOM	11878	1HG1	VAL	793	88.972	59.680	81.153	0.00	0.00

ATOM	11879	2HG1	VAL	793	89.841	60.954	81.854	0.00	0.00
ATOM	11880	3HG1	VAL	793	90.749	59.665	81.046	0.00	0.00
ATOM	11881	CG2	VAL	793	89.541	57.657	82.748	0.00	0.00
ATOM	11882	1HG2	VAL	793	90.431	57.333	82.207	0.00	0.00
ATOM	11883	2HG2	VAL	793	89.575	57.151	83.713	0.00	0.00
ATOM	11884	3HG2	VAL	793	88.660	57.381	82.168	0.00	0.00
ATOM	11885	C	VAL	793	92.400	58.987	83.358	0.00	0.00
ATOM	11886	O	VAL	793	92.852	57.901	83.720	0.00	0.00
ATOM	11887	N	ALA	794	93.191	59.813	82.698	0.00	0.00
ATOM	11888	H	ALA	794	92.831	60.735	82.496	0.00	0.00
ATOM	11889	CA	ALA	794	94.647	59.520	82.454	0.00	0.00
ATOM	11890	HA	ALA	794	94.742	58.614	81.856	0.00	0.00
ATOM	11891	CB	ALA	794	95.279	60.598	81.708	0.00	0.00
ATOM	11892	HB1	ALA	794	95.227	61.474	82.354	0.00	0.00
ATOM	11893	HB2	ALA	794	96.305	60.357	81.430	0.00	0.00
ATOM	11894	HB3	ALA	794	94.675	60.854	80.837	0.00	0.00
ATOM	11895	C	ALA	794	95.380	59.322	83.797	0.00	0.00
ATOM	11896	O	ALA	794	96.202	58.386	83.923	0.00	0.00
ATOM	11897	N	GLU	795	94.999	60.021	84.857	0.00	0.00
ATOM	11898	H	GLU	795	94.440	60.819	84.590	0.00	0.00
ATOM	11899	CA	GLU	795	95.813	59.951	86.159	0.00	0.00
ATOM	11900	HA	GLU	795	96.853	59.905	85.835	0.00	0.00
ATOM	11901	CB	GLU	795	95.587	61.246	86.966	0.00	0.00
ATOM	11902	HB2	GLU	795	95.634	61.995	86.175	0.00	0.00
ATOM	11903	HB3	GLU	795	94.649	61.183	87.517	0.00	0.00
ATOM	11904	CG	GLU	795	96.680	61.384	87.995	0.00	0.00

ATOM	11905	HG2	GLU	795	96.735	60.456	88.564	0.00	0.00
ATOM	11906	HG3	GLU	795	97.590	61.525	87.411	0.00	0.00
ATOM	11907	CD	GLU	795	96.471	62.616	88.876	0.00	0.00
ATOM	11908	OE1	GLU	795	96.040	62.543	90.036	0.00	0.00
ATOM	11909	OE2	GLU	795	96.766	63.748	88.402	0.00	0.00
ATOM	11910	C	GLU	795	95.495	58.619	86.888	0.00	0.00
ATOM	11911	O	GLU	795	96.406	57.979	87.433	0.00	0.00
ATOM	11912	N	ARG	796	94.200	58.225	86.838	0.00	0.00
ATOM	11913	H	ARG	796	93.662	58.946	86.378	0.00	0.00
ATOM	11914	CA	ARG	796	93.617	57.030	87.438	0.00	0.00
ATOM	11915	HA	ARG	796	93.788	56.915	88.508	0.00	0.00
ATOM	11916	CB	ARG	796	92.097	57.171	87.339	0.00	0.00
ATOM	11917	HB2	ARG	796	91.865	58.140	87.783	0.00	0.00
ATOM	11918	HB3	ARG	796	91.803	57.226	86.291	0.00	0.00
ATOM	11919	CG	ARG	796	91.263	56.154	88.158	0.00	0.00
ATOM	11920	HG2	ARG	796	91.481	55.198	87.683	0.00	0.00
ATOM	11921	HG3	ARG	796	91.493	56.166	89.223	0.00	0.00
ATOM	11922	CD	ARG	796	89.762	56.509	88.041	0.00	0.00
ATOM	11923	HD2	ARG	796	89.587	57.292	88.779	0.00	0.00
ATOM	11924	HD3	ARG	796	89.611	56.934	87.049	0.00	0.00
ATOM	11925	NE	ARG	796	88.771	55.425	88.232	0.00	0.00
ATOM	11926	HE	ARG	796	88.441	54.961	87.398	0.00	0.00
ATOM	11927	CZ	ARG	796	88.201	55.078	89.351	0.00	0.00
ATOM	11928	NH1	ARG	796	88.541	55.443	90.551	0.00	0.00
ATOM	11929	1HH1	ARG	796	87.994	55.134	91.342	0.00	0.00
ATOM	11930	2HH1	ARG	796	89.390	55.983	90.641	0.00	0.00

ATOM 11931 NH2 ARG 796 87.242 54.164 89.375 0.00 0.00  
ATOM 11932 1HH2 ARG 796 86.733 53.973 90.227 0.00 0.00  
ATOM 11933 2HH2 ARG 796 87.132 53.613 88.536 0.00 0.00  
ATOM 11934 C ARG 796 94.013 55.707 86.702 0.00 0.00  
ATOM 11935 O ARG 796 94.365 54.740 87.270 0.00 0.00  
ATOM 11936 N ARG 797 94.065 55.778 85.345 0.00 0.00  
ATOM 11937 H ARG 797 93.870 56.669 84.911 0.00 0.00  
ATOM 11938 CA ARG 797 94.640 54.758 84.460 0.00 0.00  
ATOM 11939 HA ARG 797 94.169 53.780 84.558 0.00 0.00  
ATOM 11940 CB ARG 797 94.408 55.112 83.022 0.00 0.00  
ATOM 11941 HB2 ARG 797 94.722 56.130 82.790 0.00 0.00  
ATOM 11942 HB3 ARG 797 95.064 54.495 82.409 0.00 0.00  
ATOM 11943 CG ARG 797 92.938 54.985 82.618 0.00 0.00  
ATOM 11944 HG2 ARG 797 92.639 53.957 82.826 0.00 0.00  
ATOM 11945 HG3 ARG 797 92.308 55.530 83.321 0.00 0.00  
ATOM 11946 CD ARG 797 92.578 55.237 81.120 0.00 0.00  
ATOM 11947 HD2 ARG 797 92.497 56.295 80.870 0.00 0.00  
ATOM 11948 HD3 ARG 797 93.319 54.764 80.475 0.00 0.00  
ATOM 11949 NE ARG 797 91.215 54.789 80.799 0.00 0.00  
ATOM 11950 HE ARG 797 90.702 54.353 81.552 0.00 0.00  
ATOM 11951 CZ ARG 797 90.461 55.318 79.863 0.00 0.00  
ATOM 11952 NH1 ARG 797 89.194 55.037 79.823 0.00 0.00  
ATOM 11953 1HH1 ARG 797 88.588 55.367 79.085 0.00 0.00  
ATOM 11954 2HH1 ARG 797 88.758 54.521 80.574 0.00 0.00  
ATOM 11955 NH2 ARG 797 90.938 56.098 78.899 0.00 0.00  
ATOM 11956 1HH2 ARG 797 90.346 56.407 78.141 0.00 0.00

ATOM 11957 2HH2 ARG 797 91.946 56.114 78.958 0.00 0.00  
ATOM 11958 C ARG 797 96.093 54.464 84.789 0.00 0.00  
ATOM 11959 O ARG 797 96.448 53.270 84.968 0.00 0.00  
ATOM 11960 N LEU 798 96.889 55.528 85.031 0.00 0.00  
ATOM 11961 H LEU 798 96.422 56.409 84.872 0.00 0.00  
ATOM 11962 CA LEU 798 98.299 55.429 85.247 0.00 0.00  
ATOM 11963 HA LEU 798 98.569 54.736 84.450 0.00 0.00  
ATOM 11964 CB LEU 798 98.964 56.793 84.912 0.00 0.00  
ATOM 11965 HB2 LEU 798 98.829 57.054 83.863 0.00 0.00  
ATOM 11966 HB3 LEU 798 98.436 57.504 85.548 0.00 0.00  
ATOM 11967 CG LEU 798 100.483 56.934 85.217 0.00 0.00  
ATOM 11968 HG LEU 798 100.694 56.501 86.195 0.00 0.00  
ATOM 11969 CD1 LEU 798 101.331 56.198 84.138 0.00 0.00  
ATOM 11970 1HD1 LEU 798 102.366 56.103 84.464 0.00 0.00  
ATOM 11971 2HD1 LEU 798 101.045 55.168 83.925 0.00 0.00  
ATOM 11972 3HD1 LEU 798 101.214 56.736 83.197 0.00 0.00  
ATOM 11973 CD2 LEU 798 100.956 58.315 85.110 0.00 0.00  
ATOM 11974 1HD2 LEU 798 101.958 58.404 85.531 0.00 0.00  
ATOM 11975 2HD2 LEU 798 100.945 58.621 84.063 0.00 0.00  
ATOM 11976 3HD2 LEU 798 100.246 58.939 85.652 0.00 0.00  
ATOM 11977 C LEU 798 98.632 54.870 86.684 0.00 0.00  
ATOM 11978 O LEU 798 99.491 53.977 86.818 0.00 0.00  
ATOM 11979 N ALA 799 97.890 55.384 87.741 0.00 0.00  
ATOM 11980 H ALA 799 97.235 56.130 87.554 0.00 0.00  
ATOM 11981 CA ALA 799 97.950 54.863 89.140 0.00 0.00  
ATOM 11982 HA ALA 799 98.910 55.048 89.621 0.00 0.00



ATOM	11983	CB	ALA	799	96.997	55.783	89.884	0.00	0.00
ATOM	11984	HB1	ALA	799	97.390	56.799	89.913	0.00	0.00
ATOM	11985	HB2	ALA	799	96.040	55.913	89.379	0.00	0.00
ATOM	11986	HB3	ALA	799	96.897	55.426	90.909	0.00	0.00
ATOM	11987	C	ALA	799	97.608	53.405	89.339	0.00	0.00
ATOM	11988	O	ALA	799	98.223	52.733	90.172	0.00	0.00
ATOM	11989	N	ARG	800	96.624	52.929	88.513	0.00	0.00
ATOM	11990	H	ARG	800	96.197	53.627	87.922	0.00	0.00
ATOM	11991	CA	ARG	800	96.161	51.535	88.495	0.00	0.00
ATOM	11992	HA	ARG	800	95.990	51.182	89.512	0.00	0.00
ATOM	11993	CB	ARG	800	94.831	51.353	87.689	0.00	0.00
ATOM	11994	HB2	ARG	800	94.191	52.125	88.116	0.00	0.00
ATOM	11995	HB3	ARG	800	95.096	51.485	86.640	0.00	0.00
ATOM	11996	CG	ARG	800	94.224	49.901	87.842	0.00	0.00
ATOM	11997	HG2	ARG	800	94.311	49.518	88.859	0.00	0.00
ATOM	11998	HG3	ARG	800	94.870	49.370	87.143	0.00	0.00
ATOM	11999	CD	ARG	800	92.741	49.799	87.381	0.00	0.00
ATOM	12000	HD2	ARG	800	92.496	48.747	87.528	0.00	0.00
ATOM	12001	HD3	ARG	800	92.162	50.391	88.089	0.00	0.00
ATOM	12002	NE	ARG	800	92.586	50.275	85.983	0.00	0.00
ATOM	12003	HE	ARG	800	93.207	49.884	85.289	0.00	0.00
ATOM	12004	CZ	ARG	800	91.766	51.203	85.488	0.00	0.00
ATOM	12005	NH1	ARG	800	91.192	51.969	86.299	0.00	0.00
ATOM	12006	1HH1	ARG	800	90.881	52.864	85.949	0.00	0.00
ATOM	12007	2HH1	ARG	800	91.083	51.740	87.276	0.00	0.00
ATOM	12008	NH2	ARG	800	91.615	51.417	84.169	0.00	0.00

ATOM	12009	1HH2	ARG	800	90.908	52.086	83.901	0.00	0.00
ATOM	12010	2HH2	ARG	800	91.891	50.660	83.560	0.00	0.00
ATOM	12011	C	ARG	800	97.220	50.573	87.880	0.00	0.00
ATOM	12012	O	ARG	800	97.292	49.393	88.285	0.00	0.00
ATOM	12013	N	GLY	801	97.972	51.075	86.903	0.00	0.00
ATOM	12014	H	GLY	801	97.758	52.017	86.605	0.00	0.00
ATOM	12015	CA	GLY	801	99.037	50.312	86.224	0.00	0.00
ATOM	12016	HA2	GLY	801	99.983	50.362	86.763	0.00	0.00
ATOM	12017	HA3	GLY	801	98.738	49.268	86.316	0.00	0.00
ATOM	12018	C	GLY	801	99.332	50.464	84.728	0.00	0.00
ATOM	12019	O	GLY	801	100.473	50.251	84.293	0.00	0.00
ATOM	12020	N	LEU	802	98.358	50.984	83.950	0.00	0.00
ATOM	12021	H	LEU	802	97.536	51.196	84.497	0.00	0.00
ATOM	12022	CA	LEU	802	98.292	51.154	82.537	0.00	0.00
ATOM	12023	HA	LEU	802	98.490	50.209	82.031	0.00	0.00
ATOM	12024	CB	LEU	802	96.929	51.604	81.997	0.00	0.00
ATOM	12025	HB2	LEU	802	96.572	52.420	82.625	0.00	0.00
ATOM	12026	HB3	LEU	802	96.976	51.842	80.934	0.00	0.00
ATOM	12027	CG	LEU	802	95.936	50.416	82.141	0.00	0.00
ATOM	12028	HG	LEU	802	96.458	49.496	81.877	0.00	0.00
ATOM	12029	CD1	LEU	802	95.260	50.209	83.557	0.00	0.00
ATOM	12030	1HD1	LEU	802	96.077	50.002	84.248	0.00	0.00
ATOM	12031	2HD1	LEU	802	94.625	51.064	83.788	0.00	0.00
ATOM	12032	3HD1	LEU	802	94.589	49.371	83.364	0.00	0.00
ATOM	12033	CD2	LEU	802	94.743	50.671	81.188	0.00	0.00
ATOM	12034	1HD2	LEU	802	95.147	50.314	80.241	0.00	0.00

ATOM 12035 2HD2 LEU 802 93.921 50.006 81.451 0.00 0.00  
ATOM 12036 3HD2 LEU 802 94.443 51.717 81.254 0.00 0.00  
ATOM 12037 C LEU 802 99.379 52.144 82.187 0.00 0.00  
ATOM 12038 O LEU 802 99.548 53.144 82.858 0.00 0.00  
ATOM 12039 N LYS 803 99.891 52.037 80.959 0.00 0.00  
ATOM 12040 H LYS 803 99.516 51.310 80.366 0.00 0.00  
ATOM 12041 CA LYS 803 100.767 52.972 80.292 0.00 0.00  
ATOM 12042 HA LYS 803 101.212 53.579 81.080 0.00 0.00  
ATOM 12043 CB LYS 803 101.871 52.251 79.538 0.00 0.00  
ATOM 12044 HB2 LYS 803 101.508 51.586 78.754 0.00 0.00  
ATOM 12045 HB3 LYS 803 102.548 52.952 79.049 0.00 0.00  
ATOM 12046 CG LYS 803 102.766 51.478 80.555 0.00 0.00  
ATOM 12047 HG2 LYS 803 103.301 52.140 81.237 0.00 0.00  
ATOM 12048 HG3 LYS 803 102.103 50.887 81.187 0.00 0.00  
ATOM 12049 CD LYS 803 103.721 50.438 79.932 0.00 0.00  
ATOM 12050 HD2 LYS 803 104.412 50.069 80.690 0.00 0.00  
ATOM 12051 HD3 LYS 803 103.178 49.581 79.532 0.00 0.00  
ATOM 12052 CE LYS 803 104.701 51.106 78.916 0.00 0.00  
ATOM 12053 HE2 LYS 803 104.101 51.704 78.230 0.00 0.00  
ATOM 12054 HE3 LYS 803 105.308 51.801 79.495 0.00 0.00  
ATOM 12055 NZ LYS 803 105.563 50.148 78.245 0.00 0.00  
ATOM 12056 HZ1 LYS 803 106.279 49.676 78.779 0.00 0.00  
ATOM 12057 HZ2 LYS 803 104.989 49.468 77.769 0.00 0.00  
ATOM 12058 HZ3 LYS 803 106.028 50.547 77.442 0.00 0.00  
ATOM 12059 C LYS 803 99.932 53.775 79.269 0.00 0.00  
ATOM 12060 O LYS 803 99.167 53.202 78.470 0.00 0.00

ATOM	12061	N	LEU	804	99.968	55.081	79.352	0.00	0.00
ATOM	12062	H	LEU	804	100.677	55.391	80.000	0.00	0.00
ATOM	12063	CA	LEU	804	98.989	55.977	78.709	0.00	0.00
ATOM	12064	HA	LEU	804	97.991	55.594	78.922	0.00	0.00
ATOM	12065	CB	LEU	804	98.971	57.266	79.387	0.00	0.00
ATOM	12066	HB2	LEU	804	99.966	57.712	79.358	0.00	0.00
ATOM	12067	HB3	LEU	804	98.149	57.847	78.970	0.00	0.00
ATOM	12068	CG	LEU	804	98.689	57.274	80.894	0.00	0.00
ATOM	12069	HG	LEU	804	99.441	56.672	81.404	0.00	0.00
ATOM	12070	CD1	LEU	804	98.798	58.663	81.407	0.00	0.00
ATOM	12071	1HD1	LEU	804	98.334	59.325	80.676	0.00	0.00
ATOM	12072	2HD1	LEU	804	98.290	58.751	82.367	0.00	0.00
ATOM	12073	3HD1	LEU	804	99.872	58.839	81.473	0.00	0.00
ATOM	12074	CD2	LEU	804	97.352	56.683	81.310	0.00	0.00
ATOM	12075	1HD2	LEU	804	97.267	56.663	82.397	0.00	0.00
ATOM	12076	2HD2	LEU	804	96.555	57.304	80.901	0.00	0.00
ATOM	12077	3HD2	LEU	804	97.282	55.666	80.923	0.00	0.00
ATOM	12078	C	LEU	804	99.141	56.066	77.172	0.00	0.00
ATOM	12079	O	LEU	804	100.274	56.049	76.649	0.00	0.00
ATOM	12080	N	ASN	805	97.934	56.093	76.456	0.00	0.00
ATOM	12081	H	ASN	805	97.145	56.296	77.053	0.00	0.00
ATOM	12082	CA	ASN	805	97.817	56.437	75.034	0.00	0.00
ATOM	12083	HA	ASN	805	98.623	55.954	74.481	0.00	0.00
ATOM	12084	CB	ASN	805	96.522	55.703	74.574	0.00	0.00
ATOM	12085	HB2	ASN	805	96.629	55.545	73.501	0.00	0.00
ATOM	12086	HB3	ASN	805	96.467	54.718	75.038	0.00	0.00

ATOM	12087	CG	ASN	805	95.223	56.373	74.919	0.00	0.00
ATOM	12088	OD1	ASN	805	95.222	57.557	75.190	0.00	0.00
ATOM	12089	ND2	ASN	805	94.138	55.638	74.866	0.00	0.00
ATOM	12090	1HD2	ASN	805	93.305	56.200	74.969	0.00	0.00
ATOM	12091	2HD2	ASN	805	94.212	54.739	74.411	0.00	0.00
ATOM	12092	C	ASN	805	98.011	57.936	74.740	0.00	0.00
ATOM	12093	O	ASN	805	98.348	58.655	75.640	0.00	0.00
ATOM	12094	N	TYR	806	97.863	58.333	73.476	0.00	0.00
ATOM	12095	H	TYR	806	97.487	57.709	72.776	0.00	0.00
ATOM	12096	CA	TYR	806	98.257	59.642	73.088	0.00	0.00
ATOM	12097	HA	TYR	806	99.194	59.862	73.600	0.00	0.00
ATOM	12098	CB	TYR	806	98.387	59.668	71.568	0.00	0.00
ATOM	12099	HB2	TYR	806	99.385	59.263	71.400	0.00	0.00
ATOM	12100	HB3	TYR	806	97.754	58.913	71.102	0.00	0.00
ATOM	12101	CG	TYR	806	98.314	61.015	70.871	0.00	0.00
ATOM	12102	CD1	TYR	806	99.276	61.978	71.112	0.00	0.00
ATOM	12103	HD1	TYR	806	100.066	61.723	71.802	0.00	0.00
ATOM	12104	CE1	TYR	806	99.213	63.222	70.554	0.00	0.00
ATOM	12105	HE1	TYR	806	99.995	63.943	70.740	0.00	0.00
ATOM	12106	CZ	TYR	806	98.187	63.542	69.606	0.00	0.00
ATOM	12107	OH	TYR	806	98.271	64.720	68.931	0.00	0.00
ATOM	12108	HH	TYR	806	99.014	65.180	69.329	0.00	0.00
ATOM	12109	CE2	TYR	806	97.231	62.602	69.284	0.00	0.00
ATOM	12110	HE2	TYR	806	96.400	62.844	68.639	0.00	0.00
ATOM	12111	CD2	TYR	806	97.278	61.357	69.961	0.00	0.00
ATOM	12112	HD2	TYR	806	96.531	60.620	69.705	0.00	0.00

ATOM	12113	C	TYR	806	97.374	60.788	73.631	0.00	0.00
ATOM	12114	O	TYR	806	97.937	61.666	74.216	0.00	0.00
ATOM	12115	N	PRO	807	96.037	60.745	73.419	0.00	0.00
ATOM	12116	CD	PRO	807	95.212	59.811	72.680	0.00	0.00
ATOM	12117	HD2	PRO	807	95.533	59.930	71.645	0.00	0.00
ATOM	12118	HD3	PRO	807	95.333	58.799	73.068	0.00	0.00
ATOM	12119	CG	PRO	807	93.859	60.360	72.901	0.00	0.00
ATOM	12120	HG2	PRO	807	93.235	60.248	72.015	0.00	0.00
ATOM	12121	HG3	PRO	807	93.272	59.821	73.645	0.00	0.00
ATOM	12122	CB	PRO	807	93.885	61.882	73.200	0.00	0.00
ATOM	12123	HB2	PRO	807	93.986	62.481	72.295	0.00	0.00
ATOM	12124	HB3	PRO	807	93.043	62.230	73.798	0.00	0.00
ATOM	12125	CA	PRO	807	95.202	61.845	74.014	0.00	0.00
ATOM	12126	HA	PRO	807	95.703	62.794	73.823	0.00	0.00
ATOM	12127	C	PRO	807	95.169	61.749	75.515	0.00	0.00
ATOM	12128	O	PRO	807	95.285	62.797	76.209	0.00	0.00
ATOM	12129	N	GLU	808	95.223	60.550	76.072	0.00	0.00
ATOM	12130	H	GLU	808	95.234	59.654	75.605	0.00	0.00
ATOM	12131	CA	GLU	808	95.484	60.498	77.541	0.00	0.00
ATOM	12132	HA	GLU	808	94.643	60.991	78.029	0.00	0.00
ATOM	12133	CB	GLU	808	95.576	59.081	78.037	0.00	0.00
ATOM	12134	HB2	GLU	808	96.239	58.533	77.368	0.00	0.00
ATOM	12135	HB3	GLU	808	96.017	59.109	79.033	0.00	0.00
ATOM	12136	CG	GLU	808	94.272	58.254	78.054	0.00	0.00
ATOM	12137	HG2	GLU	808	93.582	58.588	78.829	0.00	0.00
ATOM	12138	HG3	GLU	808	93.740	58.356	77.108	0.00	0.00

ATOM	12139	CD	GLU	808	94.567	56.770	78.243	0.00	0.00
ATOM	12140	OE1	GLU	808	95.703	56.224	78.235	0.00	0.00
ATOM	12141	OE2	GLU	808	93.551	56.067	78.384	0.00	0.00
ATOM	12142	C	GLU	808	96.708	61.305	77.984	0.00	0.00
ATOM	12143	O	GLU	808	96.604	62.159	78.900	0.00	0.00
ATOM	12144	N	SER	809	97.898	61.034	77.434	0.00	0.00
ATOM	12145	H	SER	809	97.884	60.382	76.662	0.00	0.00
ATOM	12146	CA	SER	809	99.164	61.619	77.861	0.00	0.00
ATOM	12147	HA	SER	809	99.374	61.422	78.912	0.00	0.00
ATOM	12148	CB	SER	809	100.356	61.139	77.043	0.00	0.00
ATOM	12149	HB2	SER	809	100.002	61.436	76.056	0.00	0.00
ATOM	12150	HB3	SER	809	101.287	61.614	77.350	0.00	0.00
ATOM	12151	OG	SER	809	100.377	59.700	77.179	0.00	0.00
ATOM	12152	HG	SER	809	99.641	59.334	76.683	0.00	0.00
ATOM	12153	C	SER	809	99.205	63.182	77.623	0.00	0.00
ATOM	12154	O	SER	809	99.490	63.859	78.614	0.00	0.00
ATOM	12155	N	VAL	810	98.581	63.699	76.587	0.00	0.00
ATOM	12156	H	VAL	810	98.147	63.024	75.974	0.00	0.00
ATOM	12157	CA	VAL	810	98.474	65.097	76.282	0.00	0.00
ATOM	12158	HA	VAL	810	99.457	65.561	76.364	0.00	0.00
ATOM	12159	CB	VAL	810	97.973	65.424	74.883	0.00	0.00
ATOM	12160	HB	VAL	810	97.033	64.919	74.663	0.00	0.00
ATOM	12161	CG1	VAL	810	97.752	66.944	74.624	0.00	0.00
ATOM	12162	1HG1	VAL	810	97.428	67.039	73.587	0.00	0.00
ATOM	12163	2HG1	VAL	810	97.010	67.466	75.228	0.00	0.00
ATOM	12164	3HG1	VAL	810	98.736	67.365	74.827	0.00	0.00

ATOM	12165	CG2	VAL	810	98.972	64.953	73.793	0.00	0.00
ATOM	12166	1HG2	VAL	810	99.244	63.938	74.081	0.00	0.00
ATOM	12167	2HG2	VAL	810	98.422	64.830	72.860	0.00	0.00
ATOM	12168	3HG2	VAL	810	99.870	65.563	73.694	0.00	0.00
ATOM	12169	C	VAL	810	97.659	65.819	77.328	0.00	0.00
ATOM	12170	O	VAL	810	98.055	66.869	77.812	0.00	0.00
ATOM	12171	N	ALA	811	96.586	65.200	77.812	0.00	0.00
ATOM	12172	H	ALA	811	96.444	64.227	77.581	0.00	0.00
ATOM	12173	CA	ALA	811	95.564	65.868	78.571	0.00	0.00
ATOM	12174	HA	ALA	811	95.476	66.900	78.231	0.00	0.00
ATOM	12175	CB	ALA	811	94.172	65.241	78.452	0.00	0.00
ATOM	12176	HB1	ALA	811	93.763	65.562	77.494	0.00	0.00
ATOM	12177	HB2	ALA	811	94.220	64.152	78.478	0.00	0.00
ATOM	12178	HB3	ALA	811	93.622	65.648	79.300	0.00	0.00
ATOM	12179	C	ALA	811	96.102	65.891	79.993	0.00	0.00
ATOM	12180	O	ALA	811	96.227	66.958	80.612	0.00	0.00
ATOM	12181	N	LEU	812	96.557	64.680	80.499	0.00	0.00
ATOM	12182	H	LEU	812	96.621	63.893	79.869	0.00	0.00
ATOM	12183	CA	LEU	812	97.270	64.589	81.773	0.00	0.00
ATOM	12184	HA	LEU	812	96.580	64.658	82.614	0.00	0.00
ATOM	12185	CB	LEU	812	97.843	63.239	81.853	0.00	0.00
ATOM	12186	HB2	LEU	812	96.881	62.733	81.780	0.00	0.00
ATOM	12187	HB3	LEU	812	98.438	62.951	80.986	0.00	0.00
ATOM	12188	CG	LEU	812	98.493	62.931	83.207	0.00	0.00
ATOM	12189	HG	LEU	812	99.180	63.748	83.428	0.00	0.00
ATOM	12190	CD1	LEU	812	97.465	62.831	84.317	0.00	0.00



ATOM	12191	1HD1	LEU	812	97.116	63.839	84.542	0.00	0.00
ATOM	12192	2HD1	LEU	812	96.629	62.203	84.010	0.00	0.00
ATOM	12193	3HD1	LEU	812	97.959	62.548	85.246	0.00	0.00
ATOM	12194	CD2	LEU	812	99.160	61.544	83.155	0.00	0.00
ATOM	12195	1HD2	LEU	812	99.748	61.493	82.238	0.00	0.00
ATOM	12196	2HD2	LEU	812	99.763	61.509	84.062	0.00	0.00
ATOM	12197	3HD2	LEU	812	98.361	60.814	83.026	0.00	0.00
ATOM	12198	C	LEU	812	98.370	65.698	81.968	0.00	0.00
ATOM	12199	O	LEU	812	98.288	66.415	82.961	0.00	0.00
ATOM	12200	N	ILE	813	99.308	65.911	80.992	0.00	0.00
ATOM	12201	H	ILE	813	99.250	65.356	80.151	0.00	0.00
ATOM	12202	CA	ILE	813	100.410	66.849	81.137	0.00	0.00
ATOM	12203	HA	ILE	813	100.741	66.864	82.175	0.00	0.00
ATOM	12204	CB	ILE	813	101.632	66.486	80.239	0.00	0.00
ATOM	12205	HB	ILE	813	102.371	67.192	80.618	0.00	0.00
ATOM	12206	CG2	ILE	813	102.145	65.109	80.651	0.00	0.00
ATOM	12207	1HG2	ILE	813	101.389	64.364	80.401	0.00	0.00
ATOM	12208	2HG2	ILE	813	103.117	64.958	80.180	0.00	0.00
ATOM	12209	3HG2	ILE	813	102.261	65.051	81.733	0.00	0.00
ATOM	12210	CG1	ILE	813	101.474	66.703	78.686	0.00	0.00
ATOM	12211	2HG1	ILE	813	100.607	66.072	78.491	0.00	0.00
ATOM	12212	3HG1	ILE	813	100.993	67.627	78.369	0.00	0.00
ATOM	12213	CD1	ILE	813	102.673	66.390	77.823	0.00	0.00
ATOM	12214	1HD1	ILE	813	103.095	65.412	78.056	0.00	0.00
ATOM	12215	2HD1	ILE	813	102.438	66.497	76.764	0.00	0.00
ATOM	12216	3HD1	ILE	813	103.490	67.091	77.996	0.00	0.00

ATOM	12217	C	ILE	813	99.988	68.293	80.911	0.00	0.00
ATOM	12218	O	ILE	813	100.564	69.137	81.558	0.00	0.00
ATOM	12219	N	SER	814	98.887	68.589	80.182	0.00	0.00
ATOM	12220	H	SER	814	98.443	67.864	79.636	0.00	0.00
ATOM	12221	CA	SER	814	98.485	69.963	80.082	0.00	0.00
ATOM	12222	HA	SER	814	99.391	70.552	79.939	0.00	0.00
ATOM	12223	CB	SER	814	97.650	70.136	78.805	0.00	0.00
ATOM	12224	HB2	SER	814	96.810	69.454	78.936	0.00	0.00
ATOM	12225	HB3	SER	814	97.422	71.183	78.605	0.00	0.00
ATOM	12226	OG	SER	814	98.391	69.651	77.622	0.00	0.00
ATOM	12227	HG	SER	814	98.272	68.705	77.512	0.00	0.00
ATOM	12228	C	SER	814	97.820	70.386	81.354	0.00	0.00
ATOM	12229	O	SER	814	98.051	71.498	81.850	0.00	0.00
ATOM	12230	N	ALA	815	96.999	69.526	81.918	0.00	0.00
ATOM	12231	H	ALA	815	96.717	68.661	81.479	0.00	0.00
ATOM	12232	CA	ALA	815	96.199	69.867	83.149	0.00	0.00
ATOM	12233	HA	ALA	815	95.712	70.842	83.150	0.00	0.00
ATOM	12234	CB	ALA	815	95.321	68.657	83.390	0.00	0.00
ATOM	12235	HB1	ALA	815	94.808	68.269	82.510	0.00	0.00
ATOM	12236	HB2	ALA	815	95.925	67.878	83.857	0.00	0.00
ATOM	12237	HB3	ALA	815	94.564	68.921	84.129	0.00	0.00
ATOM	12238	C	ALA	815	97.235	70.134	84.295	0.00	0.00
ATOM	12239	O	ALA	815	96.939	71.035	85.092	0.00	0.00
ATOM	12240	N	PHE	816	98.418	69.497	84.343	0.00	0.00
ATOM	12241	H	PHE	816	98.620	68.820	83.622	0.00	0.00
ATOM	12242	CA	PHE	816	99.458	69.765	85.328	0.00	0.00

ATOM	12243	HA	PHE	816	99.017	69.617	86.314	0.00	0.00
ATOM	12244	CB	PHE	816	100.638	68.785	85.108	0.00	0.00
ATOM	12245	HB2	PHE	816	100.399	67.759	85.384	0.00	0.00
ATOM	12246	HB3	PHE	816	100.881	68.659	84.053	0.00	0.00
ATOM	12247	CG	PHE	816	101.942	68.957	85.842	0.00	0.00
ATOM	12248	CD1	PHE	816	102.034	68.852	87.239	0.00	0.00
ATOM	12249	HD1	PHE	816	101.193	68.593	87.865	0.00	0.00
ATOM	12250	CE1	PHE	816	103.255	69.095	87.909	0.00	0.00
ATOM	12251	HE1	PHE	816	103.349	69.020	88.982	0.00	0.00
ATOM	12252	CZ	PHE	816	104.440	69.431	87.266	0.00	0.00
ATOM	12253	HZ	PHE	816	105.361	69.643	87.788	0.00	0.00
ATOM	12254	CE2	PHE	816	104.342	69.557	85.852	0.00	0.00
ATOM	12255	HE2	PHE	816	105.207	69.735	85.229	0.00	0.00
ATOM	12256	CD2	PHE	816	103.122	69.298	85.142	0.00	0.00
ATOM	12257	HD2	PHE	816	103.086	69.325	84.063	0.00	0.00
ATOM	12258	C	PHE	816	99.973	71.239	85.316	0.00	0.00
ATOM	12259	O	PHE	816	100.024	71.851	86.394	0.00	0.00
ATOM	12260	N	ILE	817	100.291	71.795	84.120	0.00	0.00
ATOM	12261	H	ILE	817	100.406	71.178	83.329	0.00	0.00
ATOM	12262	CA	ILE	817	100.726	73.235	83.909	0.00	0.00
ATOM	12263	HA	ILE	817	101.435	73.492	84.696	0.00	0.00
ATOM	12264	CB	ILE	817	101.529	73.313	82.606	0.00	0.00
ATOM	12265	HB	ILE	817	101.957	74.315	82.591	0.00	0.00
ATOM	12266	CG2	ILE	817	102.754	72.332	82.723	0.00	0.00
ATOM	12267	1HG2	ILE	817	103.598	72.693	82.135	0.00	0.00
ATOM	12268	2HG2	ILE	817	103.100	72.305	83.756	0.00	0.00

ATOM 12269 3HG2 ILE 817 102.585 71.325 82.341 0.00 0.00  
ATOM 12270 CG1 ILE 817 100.800 73.123 81.284 0.00 0.00  
ATOM 12271 2HG1 ILE 817 100.571 72.064 81.167 0.00 0.00  
ATOM 12272 3HG1 ILE 817 99.914 73.747 81.163 0.00 0.00  
ATOM 12273 CD1 ILE 817 101.665 73.797 80.169 0.00 0.00  
ATOM 12274 1HD1 ILE 817 102.526 73.191 79.889 0.00 0.00  
ATOM 12275 2HD1 ILE 817 101.126 73.807 79.222 0.00 0.00  
ATOM 12276 3HD1 ILE 817 102.035 74.802 80.372 0.00 0.00  
ATOM 12277 C ILE 817 99.547 74.231 83.994 0.00 0.00  
ATOM 12278 O ILE 817 99.779 75.403 84.244 0.00 0.00  
ATOM 12279 N MET 818 98.239 73.766 83.826 0.00 0.00  
ATOM 12280 H MET 818 97.985 72.825 83.560 0.00 0.00  
ATOM 12281 CA MET 818 97.107 74.566 84.196 0.00 0.00  
ATOM 12282 HA MET 818 97.312 75.594 83.898 0.00 0.00  
ATOM 12283 CB MET 818 95.838 74.030 83.587 0.00 0.00  
ATOM 12284 HB2 MET 818 95.735 72.993 83.906 0.00 0.00  
ATOM 12285 HB3 MET 818 95.059 74.596 84.097 0.00 0.00  
ATOM 12286 CG MET 818 95.657 74.126 82.078 0.00 0.00  
ATOM 12287 HG2 MET 818 95.917 75.139 81.768 0.00 0.00  
ATOM 12288 HG3 MET 818 96.396 73.522 81.553 0.00 0.00  
ATOM 12289 SD MET 818 94.029 73.727 81.448 0.00 0.00  
ATOM 12290 CE MET 818 94.392 74.076 79.708 0.00 0.00  
ATOM 12291 HE1 MET 818 93.547 73.806 79.074 0.00 0.00  
ATOM 12292 HE2 MET 818 94.435 75.145 79.498 0.00 0.00  
ATOM 12293 HE3 MET 818 95.276 73.496 79.447 0.00 0.00  
ATOM 12294 C MET 818 96.879 74.528 85.734 0.00 0.00

ATOM	12295	O	MET	818	96.489	75.499	86.292	0.00	0.00
ATOM	12296	N	GLU	819	97.192	73.461	86.495	0.00	0.00
ATOM	12297	H	GLU	819	97.515	72.597	86.082	0.00	0.00
ATOM	12298	CA	GLU	819	97.160	73.633	87.978	0.00	0.00
ATOM	12299	HA	GLU	819	96.250	74.149	88.284	0.00	0.00
ATOM	12300	CB	GLU	819	97.168	72.229	88.696	0.00	0.00
ATOM	12301	HB2	GLU	819	97.897	71.622	88.159	0.00	0.00
ATOM	12302	HB3	GLU	819	97.313	72.320	89.773	0.00	0.00
ATOM	12303	CG	GLU	819	95.933	71.418	88.571	0.00	0.00
ATOM	12304	HG2	GLU	819	95.795	71.193	87.513	0.00	0.00
ATOM	12305	HG3	GLU	819	96.082	70.568	89.236	0.00	0.00
ATOM	12306	CD	GLU	819	94.637	72.214	88.886	0.00	0.00
ATOM	12307	OE1	GLU	819	93.996	71.741	89.893	0.00	0.00
ATOM	12308	OE2	GLU	819	94.144	73.035	88.123	0.00	0.00
ATOM	12309	C	GLU	819	98.427	74.284	88.625	0.00	0.00
ATOM	12310	O	GLU	819	98.369	74.877	89.694	0.00	0.00
ATOM	12311	N	GLY	820	99.597	74.223	87.936	0.00	0.00
ATOM	12312	H	GLY	820	99.645	73.684	87.083	0.00	0.00
ATOM	12313	CA	GLY	820	100.653	75.180	88.236	0.00	0.00
ATOM	12314	HA2	GLY	820	100.925	75.022	89.280	0.00	0.00
ATOM	12315	HA3	GLY	820	101.556	75.017	87.648	0.00	0.00
ATOM	12316	C	GLY	820	100.329	76.699	87.982	0.00	0.00
ATOM	12317	O	GLY	820	100.687	77.522	88.786	0.00	0.00
ATOM	12318	N	ALA	821	99.583	76.967	86.981	0.00	0.00
ATOM	12319	H	ALA	821	99.413	76.230	86.313	0.00	0.00
ATOM	12320	CA	ALA	821	98.939	78.281	86.916	0.00	0.00

ATOM	12321	HA	ALA	821	99.737	79.022	86.963	0.00	0.00
ATOM	12322	CB	ALA	821	98.302	78.309	85.546	0.00	0.00
ATOM	12323	HB1	ALA	821	97.865	79.291	85.366	0.00	0.00
ATOM	12324	HB2	ALA	821	99.063	78.309	84.765	0.00	0.00
ATOM	12325	HB3	ALA	821	97.495	77.581	85.468	0.00	0.00
ATOM	12326	C	ALA	821	98.045	78.727	88.102	0.00	0.00
ATOM	12327	O	ALA	821	98.151	79.829	88.676	0.00	0.00
ATOM	12328	N	ARG	822	97.169	77.817	88.443	0.00	0.00
ATOM	12329	H	ARG	822	97.027	76.982	87.894	0.00	0.00
ATOM	12330	CA	ARG	822	96.355	78.036	89.699	0.00	0.00
ATOM	12331	HA	ARG	822	95.860	79.002	89.800	0.00	0.00
ATOM	12332	CB	ARG	822	95.359	76.873	89.678	0.00	0.00
ATOM	12333	HB2	ARG	822	94.722	76.827	88.794	0.00	0.00
ATOM	12334	HB3	ARG	822	95.935	75.959	89.819	0.00	0.00
ATOM	12335	CG	ARG	822	94.510	77.052	91.014	0.00	0.00
ATOM	12336	HG2	ARG	822	93.953	76.145	91.245	0.00	0.00
ATOM	12337	HG3	ARG	822	95.157	77.083	91.890	0.00	0.00
ATOM	12338	CD	ARG	822	93.553	78.186	90.919	0.00	0.00
ATOM	12339	HD2	ARG	822	94.094	79.089	90.638	0.00	0.00
ATOM	12340	HD3	ARG	822	92.808	78.045	90.135	0.00	0.00
ATOM	12341	NE	ARG	822	92.797	78.395	92.165	0.00	0.00
ATOM	12342	HE	ARG	822	91.920	77.898	92.231	0.00	0.00
ATOM	12343	CZ	ARG	822	93.195	79.063	93.250	0.00	0.00
ATOM	12344	NH1	ARG	822	94.354	79.726	93.235	0.00	0.00
ATOM	12345	1HH1	ARG	822	94.606	80.193	94.095	0.00	0.00
ATOM	12346	2HH1	ARG	822	95.083	79.518	92.568	0.00	0.00

ATOM 12347 NH2 ARG 822 92.496 79.080 94.323 0.00 0.00  
ATOM 12348 1HH2 ARG 822 92.777 79.365 95.250 0.00 0.00  
ATOM 12349 2HH2 ARG 822 91.639 78.561 94.199 0.00 0.00  
ATOM 12350 C ARG 822 97.266 78.057 90.936 0.00 0.00  
ATOM 12351 O ARG 822 96.777 78.575 91.944 0.00 0.00  
ATOM 12352 N ASP 823 98.485 77.471 90.831 0.00 0.00  
ATOM 12353 H ASP 823 98.611 76.913 89.999 0.00 0.00  
ATOM 12354 CA ASP 823 99.521 77.423 91.982 0.00 0.00  
ATOM 12355 HA ASP 823 99.109 77.387 92.991 0.00 0.00  
ATOM 12356 CB ASP 823 100.449 76.214 91.753 0.00 0.00  
ATOM 12357 HB2 ASP 823 99.869 75.353 91.421 0.00 0.00  
ATOM 12358 HB3 ASP 823 101.056 76.456 90.881 0.00 0.00  
ATOM 12359 CG ASP 823 101.334 75.925 92.954 0.00 0.00  
ATOM 12360 OD1 ASP 823 102.445 75.452 92.746 0.00 0.00  
ATOM 12361 OD2 ASP 823 100.839 75.914 94.115 0.00 0.00  
ATOM 12362 C ASP 823 100.358 78.739 92.005 0.00 0.00  
ATOM 12363 O ASP 823 100.998 79.082 92.990 0.00 0.00  
ATOM 12364 N GLY 824 100.291 79.488 90.912 0.00 0.00  
ATOM 12365 H GLY 824 99.604 79.222 90.221 0.00 0.00  
ATOM 12366 CA GLY 824 100.876 80.799 90.709 0.00 0.00  
ATOM 12367 HA2 GLY 824 100.247 81.345 90.006 0.00 0.00  
ATOM 12368 HA3 GLY 824 100.949 81.304 91.672 0.00 0.00  
ATOM 12369 C GLY 824 102.332 80.798 90.194 0.00 0.00  
ATOM 12370 O GLY 824 102.920 81.858 89.982 0.00 0.00  
ATOM 12371 N LYS 825 102.824 79.615 89.921 0.00 0.00  
ATOM 12372 H LYS 825 102.265 78.774 89.941 0.00 0.00

ATOM	12373	CA	LYS	825	104.143	79.438	89.221	0.00	0.00
ATOM	12374	HA	LYS	825	104.988	79.903	89.730	0.00	0.00
ATOM	12375	CB	LYS	825	104.423	77.886	88.981	0.00	0.00
ATOM	12376	HB2	LYS	825	103.510	77.515	88.516	0.00	0.00
ATOM	12377	HB3	LYS	825	105.203	77.746	88.232	0.00	0.00
ATOM	12378	CG	LYS	825	104.798	77.200	90.228	0.00	0.00
ATOM	12379	HG2	LYS	825	104.118	77.272	91.077	0.00	0.00
ATOM	12380	HG3	LYS	825	105.815	77.472	90.510	0.00	0.00
ATOM	12381	CD	LYS	825	104.778	75.650	89.958	0.00	0.00
ATOM	12382	HD2	LYS	825	103.734	75.362	89.833	0.00	0.00
ATOM	12383	HD3	LYS	825	105.305	75.408	89.035	0.00	0.00
ATOM	12384	CE	LYS	825	105.313	74.877	91.149	0.00	0.00
ATOM	12385	HE2	LYS	825	106.261	75.311	91.469	0.00	0.00
ATOM	12386	HE3	LYS	825	104.630	74.990	91.991	0.00	0.00
ATOM	12387	NZ	LYS	825	105.410	73.472	90.881	0.00	0.00
ATOM	12388	HZ1	LYS	825	105.710	72.930	91.679	0.00	0.00
ATOM	12389	HZ2	LYS	825	104.545	73.123	90.494	0.00	0.00
ATOM	12390	HZ3	LYS	825	106.065	73.458	90.112	0.00	0.00
ATOM	12391	C	LYS	825	104.121	80.045	87.844	0.00	0.00
ATOM	12392	O	LYS	825	103.222	79.819	87.057	0.00	0.00
ATOM	12393	N	SER	826	105.197	80.745	87.496	0.00	0.00
ATOM	12394	H	SER	826	105.910	80.780	88.210	0.00	0.00
ATOM	12395	CA	SER	826	105.183	81.696	86.429	0.00	0.00
ATOM	12396	HA	SER	826	104.270	82.276	86.561	0.00	0.00
ATOM	12397	CB	SER	826	106.334	82.733	86.534	0.00	0.00
ATOM	12398	HB2	SER	826	106.270	83.460	85.725	0.00	0.00



ATOM 12399 HB3 SER 826 106.070 83.188 87.489 0.00 0.00  
ATOM 12400 OG SER 826 107.567 82.035 86.526 0.00 0.00  
ATOM 12401 HG SER 826 108.110 82.300 87.273 0.00 0.00  
ATOM 12402 C SER 826 105.198 80.909 85.166 0.00 0.00  
ATOM 12403 O SER 826 105.530 79.704 85.164 0.00 0.00  
ATOM 12404 N VAL 827 104.824 81.602 84.024 0.00 0.00  
ATOM 12405 H VAL 827 104.567 82.574 84.119 0.00 0.00  
ATOM 12406 CA VAL 827 105.026 81.020 82.675 0.00 0.00  
ATOM 12407 HA VAL 827 104.474 80.080 82.642 0.00 0.00  
ATOM 12408 CB VAL 827 104.490 81.995 81.584 0.00 0.00  
ATOM 12409 HB VAL 827 104.565 81.472 80.631 0.00 0.00  
ATOM 12410 CG1 VAL 827 103.016 82.355 81.877 0.00 0.00  
ATOM 12411 1HG1 VAL 827 103.027 82.993 82.761 0.00 0.00  
ATOM 12412 2HG1 VAL 827 102.519 82.904 81.077 0.00 0.00  
ATOM 12413 3HG1 VAL 827 102.380 81.483 82.029 0.00 0.00  
ATOM 12414 CG2 VAL 827 105.263 83.251 81.332 0.00 0.00  
ATOM 12415 1HG2 VAL 827 104.618 83.893 80.733 0.00 0.00  
ATOM 12416 2HG2 VAL 827 105.412 83.742 82.294 0.00 0.00  
ATOM 12417 3HG2 VAL 827 106.261 83.143 80.907 0.00 0.00  
ATOM 12418 C VAL 827 106.555 80.574 82.478 0.00 0.00  
ATOM 12419 O VAL 827 106.837 79.660 81.696 0.00 0.00  
ATOM 12420 N ALA 828 107.502 81.291 83.037 0.00 0.00  
ATOM 12421 H ALA 828 107.204 82.156 83.466 0.00 0.00  
ATOM 12422 CA ALA 828 108.976 81.154 82.842 0.00 0.00  
ATOM 12423 HA ALA 828 109.190 81.040 81.779 0.00 0.00  
ATOM 12424 CB ALA 828 109.679 82.426 83.374 0.00 0.00

ATOM	12425	HB1	ALA	828	109.565	83.269	82.692	0.00	0.00
ATOM	12426	HB2	ALA	828	109.410	82.711	84.391	0.00	0.00
ATOM	12427	HB3	ALA	828	110.729	82.140	83.421	0.00	0.00
ATOM	12428	C	ALA	828	109.403	79.893	83.511	0.00	0.00
ATOM	12429	O	ALA	828	110.175	79.067	82.932	0.00	0.00
ATOM	12430	N	SER	829	108.818	79.562	84.695	0.00	0.00
ATOM	12431	H	SER	829	108.045	80.148	84.976	0.00	0.00
ATOM	12432	CA	SER	829	108.970	78.277	85.356	0.00	0.00
ATOM	12433	HA	SER	829	110.020	77.994	85.286	0.00	0.00
ATOM	12434	CB	SER	829	108.712	78.289	86.878	0.00	0.00
ATOM	12435	HB2	SER	829	107.671	78.466	87.149	0.00	0.00
ATOM	12436	HB3	SER	829	108.981	77.312	87.281	0.00	0.00
ATOM	12437	OG	SER	829	109.508	79.255	87.612	0.00	0.00
ATOM	12438	HG	SER	829	109.265	79.276	88.541	0.00	0.00
ATOM	12439	C	SER	829	108.254	77.108	84.584	0.00	0.00
ATOM	12440	O	SER	829	108.840	76.056	84.456	0.00	0.00
ATOM	12441	N	LEU	830	106.963	77.298	84.195	0.00	0.00
ATOM	12442	H	LEU	830	106.518	78.173	84.433	0.00	0.00
ATOM	12443	CA	LEU	830	106.133	76.228	83.700	0.00	0.00
ATOM	12444	HA	LEU	830	106.377	75.325	84.261	0.00	0.00
ATOM	12445	CB	LEU	830	104.590	76.463	83.847	0.00	0.00
ATOM	12446	HB2	LEU	830	104.289	77.422	83.426	0.00	0.00
ATOM	12447	HB3	LEU	830	104.083	75.632	83.358	0.00	0.00
ATOM	12448	CG	LEU	830	104.192	76.560	85.249	0.00	0.00
ATOM	12449	HG	LEU	830	104.886	77.183	85.813	0.00	0.00
ATOM	12450	CD1	LEU	830	102.734	77.106	85.325	0.00	0.00

ATOM	12451	1HD1	LEU	830	102.511	77.187	86.389	0.00	0.00
ATOM	12452	2HD1	LEU	830	102.722	78.148	85.005	0.00	0.00
ATOM	12453	3HD1	LEU	830	102.042	76.527	84.714	0.00	0.00
ATOM	12454	CD2	LEU	830	104.164	75.196	85.973	0.00	0.00
ATOM	12455	1HD2	LEU	830	103.601	75.310	86.900	0.00	0.00
ATOM	12456	2HD2	LEU	830	103.666	74.414	85.399	0.00	0.00
ATOM	12457	3HD2	LEU	830	105.145	74.833	86.278	0.00	0.00
ATOM	12458	C	LEU	830	106.564	75.799	82.270	0.00	0.00
ATOM	12459	O	LEU	830	106.472	74.627	81.957	0.00	0.00
ATOM	12460	N	MET	831	107.205	76.638	81.435	0.00	0.00
ATOM	12461	H	MET	831	107.491	77.576	81.680	0.00	0.00
ATOM	12462	CA	MET	831	107.607	76.156	80.081	0.00	0.00
ATOM	12463	HA	MET	831	106.784	75.623	79.605	0.00	0.00
ATOM	12464	CB	MET	831	108.035	77.274	79.108	0.00	0.00
ATOM	12465	HB2	MET	831	108.349	76.891	78.137	0.00	0.00
ATOM	12466	HB3	MET	831	107.148	77.846	78.839	0.00	0.00
ATOM	12467	CG	MET	831	109.214	78.160	79.535	0.00	0.00
ATOM	12468	HG2	MET	831	108.914	78.713	80.425	0.00	0.00
ATOM	12469	HG3	MET	831	110.039	77.559	79.915	0.00	0.00
ATOM	12470	SD	MET	831	109.812	79.222	78.131	0.00	0.00
ATOM	12471	CE	MET	831	110.651	80.608	78.908	0.00	0.00
ATOM	12472	HE1	MET	831	111.191	80.207	79.765	0.00	0.00
ATOM	12473	HE2	MET	831	111.335	81.083	78.205	0.00	0.00
ATOM	12474	HE3	MET	831	109.913	81.291	79.329	0.00	0.00
ATOM	12475	C	MET	831	108.704	75.080	80.120	0.00	0.00
ATOM	12476	O	MET	831	108.927	74.510	79.075	0.00	0.00

ATOM	12477	N	GLU	832	109.379	74.851	81.285	0.00	0.00
ATOM	12478	H	GLU	832	109.081	75.384	82.090	0.00	0.00
ATOM	12479	CA	GLU	832	110.361	73.813	81.486	0.00	0.00
ATOM	12480	HA	GLU	832	110.475	73.195	80.595	0.00	0.00
ATOM	12481	CB	GLU	832	111.762	74.374	81.880	0.00	0.00
ATOM	12482	HB2	GLU	832	111.639	75.115	82.670	0.00	0.00
ATOM	12483	HB3	GLU	832	112.220	73.457	82.249	0.00	0.00
ATOM	12484	CG	GLU	832	112.517	74.973	80.693	0.00	0.00
ATOM	12485	HG2	GLU	832	112.681	74.138	80.012	0.00	0.00
ATOM	12486	HG3	GLU	832	112.052	75.863	80.269	0.00	0.00
ATOM	12487	CD	GLU	832	113.854	75.427	81.157	0.00	0.00
ATOM	12488	OE1	GLU	832	114.897	75.096	80.555	0.00	0.00
ATOM	12489	OE2	GLU	832	113.949	76.187	82.118	0.00	0.00
ATOM	12490	C	GLU	832	109.833	72.791	82.563	0.00	0.00
ATOM	12491	O	GLU	832	110.301	71.668	82.633	0.00	0.00
ATOM	12492	N	GLU	833	108.819	73.208	83.367	0.00	0.00
ATOM	12493	H	GLU	833	108.495	74.162	83.307	0.00	0.00
ATOM	12494	CA	GLU	833	108.309	72.222	84.330	0.00	0.00
ATOM	12495	HA	GLU	833	109.139	71.865	84.940	0.00	0.00
ATOM	12496	CB	GLU	833	107.285	72.931	85.234	0.00	0.00
ATOM	12497	HB2	GLU	833	107.659	73.928	85.465	0.00	0.00
ATOM	12498	HB3	GLU	833	106.450	73.191	84.583	0.00	0.00
ATOM	12499	CG	GLU	833	106.768	72.305	86.506	0.00	0.00
ATOM	12500	HG2	GLU	833	105.906	72.820	86.930	0.00	0.00
ATOM	12501	HG3	GLU	833	106.401	71.311	86.252	0.00	0.00
ATOM	12502	CD	GLU	833	107.685	72.236	87.713	0.00	0.00

ATOM	12503	OE1	GLU	833	108.788	71.746	87.510	0.00	0.00
ATOM	12504	OE2	GLU	833	107.392	72.939	88.744	0.00	0.00
ATOM	12505	C	GLU	833	107.638	70.990	83.583	0.00	0.00
ATOM	12506	O	GLU	833	107.763	69.803	83.939	0.00	0.00
ATOM	12507	N	GLY	834	107.032	71.233	82.411	0.00	0.00
ATOM	12508	H	GLY	834	106.986	72.207	82.148	0.00	0.00
ATOM	12509	CA	GLY	834	106.562	70.222	81.415	0.00	0.00
ATOM	12510	HA2	GLY	834	105.889	69.489	81.860	0.00	0.00
ATOM	12511	HA3	GLY	834	106.068	70.707	80.573	0.00	0.00
ATOM	12512	C	GLY	834	107.599	69.331	80.736	0.00	0.00
ATOM	12513	O	GLY	834	107.294	68.456	79.937	0.00	0.00
ATOM	12514	N	ARG	835	108.913	69.510	80.974	0.00	0.00
ATOM	12515	H	ARG	835	109.200	70.292	81.544	0.00	0.00
ATOM	12516	CA	ARG	835	109.958	68.607	80.459	0.00	0.00
ATOM	12517	HA	ARG	835	109.629	68.137	79.532	0.00	0.00
ATOM	12518	CB	ARG	835	111.183	69.434	79.989	0.00	0.00
ATOM	12519	HB2	ARG	835	111.385	70.280	80.645	0.00	0.00
ATOM	12520	HB3	ARG	835	112.024	68.764	79.809	0.00	0.00
ATOM	12521	CG	ARG	835	110.778	70.109	78.597	0.00	0.00
ATOM	12522	HG2	ARG	835	110.480	69.299	77.931	0.00	0.00
ATOM	12523	HG3	ARG	835	109.964	70.819	78.738	0.00	0.00
ATOM	12524	CD	ARG	835	111.923	70.890	78.086	0.00	0.00
ATOM	12525	HD2	ARG	835	112.129	71.669	78.819	0.00	0.00
ATOM	12526	HD3	ARG	835	112.793	70.244	77.969	0.00	0.00
ATOM	12527	NE	ARG	835	111.563	71.581	76.875	0.00	0.00
ATOM	12528	HE	ARG	835	110.802	71.183	76.344	0.00	0.00

ATOM 12529 CZ ARG 835 112.190 72.660 76.396 0.00 0.00  
ATOM 12530 NH1 ARG 835 113.199 73.212 77.099 0.00 0.00  
ATOM 12531 1HH1 ARG 835 113.475 74.127 76.773 0.00 0.00  
ATOM 12532 2HH1 ARG 835 113.416 72.996 78.062 0.00 0.00  
ATOM 12533 NH2 ARG 835 111.748 73.260 75.345 0.00 0.00  
ATOM 12534 1HH2 ARG 835 112.310 74.015 74.978 0.00 0.00  
ATOM 12535 2HH2 ARG 835 111.087 72.794 74.741 0.00 0.00  
ATOM 12536 C ARG 835 110.349 67.453 81.371 0.00 0.00  
ATOM 12537 O ARG 835 111.068 66.594 80.778 0.00 0.00  
ATOM 12538 N HIE 836 109.777 67.354 82.580 0.00 0.00  
ATOM 12539 H HIE 836 109.098 68.083 82.747 0.00 0.00  
ATOM 12540 CA HIE 836 110.079 66.228 83.508 0.00 0.00  
ATOM 12541 HA HIE 836 110.574 65.467 82.904 0.00 0.00  
ATOM 12542 CB HIE 836 111.129 66.635 84.541 0.00 0.00  
ATOM 12543 HB2 HIE 836 111.081 67.723 84.595 0.00 0.00  
ATOM 12544 HB3 HIE 836 110.944 66.247 85.543 0.00 0.00  
ATOM 12545 CG HIE 836 112.572 66.291 84.263 0.00 0.00  
ATOM 12546 ND1 HIE 836 113.143 65.045 84.461 0.00 0.00  
ATOM 12547 CE1 HIE 836 114.325 65.093 83.822 0.00 0.00  
ATOM 12548 HE1 HIE 836 114.985 64.240 83.752 0.00 0.00  
ATOM 12549 NE2 HIE 836 114.538 66.295 83.258 0.00 0.00  
ATOM 12550 HE2 HIE 836 115.282 66.483 82.602 0.00 0.00  
ATOM 12551 CD2 HIE 836 113.414 67.009 83.447 0.00 0.00  
ATOM 12552 HD2 HIE 836 113.243 67.995 83.041 0.00 0.00  
ATOM 12553 C HIE 836 108.775 65.500 84.134 0.00 0.00  
ATOM 12554 O HIE 836 108.791 64.620 85.022 0.00 0.00

ATOM 12555 N VAL 837 107.681 65.946 83.590 0.00 0.00  
ATOM 12556 H VAL 837 107.856 66.719 82.964 0.00 0.00  
ATOM 12557 CA VAL 837 106.278 65.634 84.053 0.00 0.00  
ATOM 12558 HA VAL 837 106.200 65.778 85.131 0.00 0.00  
ATOM 12559 CB VAL 837 105.274 66.631 83.350 0.00 0.00  
ATOM 12560 HB VAL 837 105.651 67.602 83.671 0.00 0.00  
ATOM 12561 CG1 VAL 837 105.258 66.512 81.802 0.00 0.00  
ATOM 12562 1HG1 VAL 837 104.888 65.537 81.484 0.00 0.00  
ATOM 12563 2HG1 VAL 837 104.575 67.213 81.322 0.00 0.00  
ATOM 12564 3HG1 VAL 837 106.127 66.857 81.242 0.00 0.00  
ATOM 12565 CG2 VAL 837 103.813 66.404 83.803 0.00 0.00  
ATOM 12566 1HG2 VAL 837 103.088 67.127 83.430 0.00 0.00  
ATOM 12567 2HG2 VAL 837 103.384 65.451 83.493 0.00 0.00  
ATOM 12568 3HG2 VAL 837 103.833 66.446 84.892 0.00 0.00  
ATOM 12569 C VAL 837 105.871 64.163 83.842 0.00 0.00  
ATOM 12570 O VAL 837 105.188 63.597 84.663 0.00 0.00  
ATOM 12571 N LEU 838 106.315 63.476 82.831 0.00 0.00  
ATOM 12572 H LEU 838 106.975 63.951 82.233 0.00 0.00  
ATOM 12573 CA LEU 838 105.953 62.085 82.318 0.00 0.00  
ATOM 12574 HA LEU 838 105.784 61.421 83.166 0.00 0.00  
ATOM 12575 CB LEU 838 104.627 62.202 81.565 0.00 0.00  
ATOM 12576 HB2 LEU 838 104.039 63.034 81.953 0.00 0.00  
ATOM 12577 HB3 LEU 838 104.901 62.407 80.531 0.00 0.00  
ATOM 12578 CG LEU 838 103.791 60.975 81.706 0.00 0.00  
ATOM 12579 HG LEU 838 104.415 60.085 81.625 0.00 0.00  
ATOM 12580 CD1 LEU 838 103.054 60.923 83.054 0.00 0.00

ATOM	12581	1HD1	LEU	838	103.699	60.899	83.932	0.00	0.00
ATOM	12582	2HD1	LEU	838	102.315	61.724	83.060	0.00	0.00
ATOM	12583	3HD1	LEU	838	102.396	60.057	82.972	0.00	0.00
ATOM	12584	CD2	LEU	838	102.736	60.857	80.574	0.00	0.00
ATOM	12585	1HD2	LEU	838	102.336	59.849	80.686	0.00	0.00
ATOM	12586	2HD2	LEU	838	101.979	61.641	80.609	0.00	0.00
ATOM	12587	3HD2	LEU	838	103.088	61.037	79.558	0.00	0.00
ATOM	12588	C	LEU	838	107.066	61.423	81.484	0.00	0.00
ATOM	12589	O	LEU	838	107.966	62.147	81.028	0.00	0.00
ATOM	12590	N	THR	839	107.203	60.094	81.443	0.00	0.00
ATOM	12591	H	THR	839	106.596	59.533	82.023	0.00	0.00
ATOM	12592	CA	THR	839	108.255	59.411	80.691	0.00	0.00
ATOM	12593	HA	THR	839	108.816	60.120	80.082	0.00	0.00
ATOM	12594	CB	THR	839	109.262	58.733	81.632	0.00	0.00
ATOM	12595	HB	THR	839	109.870	58.064	81.022	0.00	0.00
ATOM	12596	CG2	THR	839	110.310	59.472	82.401	0.00	0.00
ATOM	12597	1HG2	THR	839	111.197	58.838	82.425	0.00	0.00
ATOM	12598	2HG2	THR	839	110.490	60.346	81.776	0.00	0.00
ATOM	12599	3HG2	THR	839	109.956	59.849	83.361	0.00	0.00
ATOM	12600	OG1	THR	839	108.564	57.951	82.563	0.00	0.00
ATOM	12601	HG1	THR	839	109.201	57.502	83.123	0.00	0.00
ATOM	12602	C	THR	839	107.755	58.217	79.801	0.00	0.00
ATOM	12603	O	THR	839	106.559	57.848	79.914	0.00	0.00
ATOM	12604	N	ARG	840	108.552	57.690	78.909	0.00	0.00
ATOM	12605	H	ARG	840	109.418	58.194	78.789	0.00	0.00
ATOM	12606	CA	ARG	840	108.290	56.603	78.005	0.00	0.00



ATOM	12607	HA	ARG	840	107.410	56.778	77.385	0.00	0.00
ATOM	12608	CB	ARG	840	109.343	56.503	76.926	0.00	0.00
ATOM	12609	HB2	ARG	840	109.536	57.467	76.455	0.00	0.00
ATOM	12610	HB3	ARG	840	110.250	56.066	77.343	0.00	0.00
ATOM	12611	CG	ARG	840	108.758	55.576	75.788	0.00	0.00
ATOM	12612	HG2	ARG	840	108.637	54.593	76.244	0.00	0.00
ATOM	12613	HG3	ARG	840	107.876	56.033	75.340	0.00	0.00
ATOM	12614	CD	ARG	840	109.840	55.355	74.675	0.00	0.00
ATOM	12615	HD2	ARG	840	110.675	54.895	75.203	0.00	0.00
ATOM	12616	HD3	ARG	840	109.473	54.837	73.789	0.00	0.00
ATOM	12617	NE	ARG	840	110.307	56.616	74.101	0.00	0.00
ATOM	12618	HE	ARG	840	110.906	57.267	74.588	0.00	0.00
ATOM	12619	CZ	ARG	840	109.949	57.079	72.898	0.00	0.00
ATOM	12620	NH1	ARG	840	109.097	56.448	72.173	0.00	0.00
ATOM	12621	1HH1	ARG	840	108.708	56.864	71.339	0.00	0.00
ATOM	12622	2HH1	ARG	840	108.670	55.576	72.453	0.00	0.00
ATOM	12623	NH2	ARG	840	110.244	58.272	72.470	0.00	0.00
ATOM	12624	1HH2	ARG	840	110.060	58.635	71.546	0.00	0.00
ATOM	12625	2HH2	ARG	840	110.796	58.884	73.054	0.00	0.00
ATOM	12626	C	ARG	840	108.005	55.340	78.814	0.00	0.00
ATOM	12627	O	ARG	840	107.334	54.413	78.356	0.00	0.00
ATOM	12628	N	GLU	841	108.465	55.259	80.077	0.00	0.00
ATOM	12629	H	GLU	841	109.068	55.992	80.422	0.00	0.00
ATOM	12630	CA	GLU	841	108.170	54.115	80.932	0.00	0.00
ATOM	12631	HA	GLU	841	108.312	53.201	80.354	0.00	0.00
ATOM	12632	CB	GLU	841	109.034	54.140	82.168	0.00	0.00

ATOM	12633	HB2	GLU	841	108.948	55.089	82.698	0.00	0.00
ATOM	12634	HB3	GLU	841	108.631	53.428	82.888	0.00	0.00
ATOM	12635	CG	GLU	841	110.473	53.874	81.881	0.00	0.00
ATOM	12636	HG2	GLU	841	110.563	52.816	81.631	0.00	0.00
ATOM	12637	HG3	GLU	841	110.813	54.442	81.015	0.00	0.00
ATOM	12638	CD	GLU	841	111.408	54.109	83.113	0.00	0.00
ATOM	12639	OE1	GLU	841	111.846	53.092	83.685	0.00	0.00
ATOM	12640	OE2	GLU	841	111.799	55.291	83.299	0.00	0.00
ATOM	12641	C	GLU	841	106.707	54.157	81.356	0.00	0.00
ATOM	12642	O	GLU	841	106.111	53.109	81.666	0.00	0.00
ATOM	12643	N	GLN	842	106.087	55.346	81.282	0.00	0.00
ATOM	12644	H	GLN	842	106.623	56.027	80.762	0.00	0.00
ATOM	12645	CA	GLN	842	104.733	55.773	81.642	0.00	0.00
ATOM	12646	HA	GLN	842	104.438	55.114	82.459	0.00	0.00
ATOM	12647	CB	GLN	842	104.756	57.038	82.523	0.00	0.00
ATOM	12648	HB2	GLN	842	105.401	57.694	81.939	0.00	0.00
ATOM	12649	HB3	GLN	842	103.801	57.530	82.703	0.00	0.00
ATOM	12650	CG	GLN	842	105.447	56.839	83.854	0.00	0.00
ATOM	12651	HG2	GLN	842	104.965	56.123	84.519	0.00	0.00
ATOM	12652	HG3	GLN	842	106.400	56.318	83.763	0.00	0.00
ATOM	12653	CD	GLN	842	105.455	58.142	84.564	0.00	0.00
ATOM	12654	OE1	GLN	842	104.469	58.597	85.166	0.00	0.00
ATOM	12655	NE2	GLN	842	106.474	58.864	84.279	0.00	0.00
ATOM	12656	1HE2	GLN	842	106.552	59.771	84.716	0.00	0.00
ATOM	12657	2HE2	GLN	842	107.241	58.502	83.730	0.00	0.00
ATOM	12658	C	GLN	842	103.596	55.800	80.529	0.00	0.00

ATOM	12659	O	GLN	842	102.374	55.853	80.791	0.00	0.00
ATOM	12660	N	VAL	843	104.096	55.874	79.283	0.00	0.00
ATOM	12661	H	VAL	843	105.086	56.074	79.251	0.00	0.00
ATOM	12662	CA	VAL	843	103.272	55.923	78.105	0.00	0.00
ATOM	12663	HA	VAL	843	102.234	55.754	78.388	0.00	0.00
ATOM	12664	CB	VAL	843	103.462	57.211	77.348	0.00	0.00
ATOM	12665	HB	VAL	843	102.826	57.172	76.464	0.00	0.00
ATOM	12666	CG1	VAL	843	103.108	58.391	78.221	0.00	0.00
ATOM	12667	1HG1	VAL	843	102.970	59.296	77.630	0.00	0.00
ATOM	12668	2HG1	VAL	843	102.144	58.222	78.702	0.00	0.00
ATOM	12669	3HG1	VAL	843	103.790	58.473	79.067	0.00	0.00
ATOM	12670	CG2	VAL	843	104.864	57.410	76.700	0.00	0.00
ATOM	12671	1HG2	VAL	843	105.001	56.785	75.818	0.00	0.00
ATOM	12672	2HG2	VAL	843	105.132	58.455	76.551	0.00	0.00
ATOM	12673	3HG2	VAL	843	105.570	56.948	77.390	0.00	0.00
ATOM	12674	C	VAL	843	103.476	54.718	77.108	0.00	0.00
ATOM	12675	O	VAL	843	104.385	53.974	77.360	0.00	0.00
ATOM	12676	N	MET	844	102.755	54.590	75.993	0.00	0.00
ATOM	12677	H	MET	844	101.963	55.215	75.931	0.00	0.00
ATOM	12678	CA	MET	844	102.946	53.676	74.892	0.00	0.00
ATOM	12679	HA	MET	844	103.301	52.736	75.314	0.00	0.00
ATOM	12680	CB	MET	844	101.682	53.431	74.109	0.00	0.00
ATOM	12681	HB2	MET	844	101.124	54.290	73.736	0.00	0.00
ATOM	12682	HB3	MET	844	101.897	52.874	73.197	0.00	0.00
ATOM	12683	CG	MET	844	100.708	52.550	74.862	0.00	0.00
ATOM	12684	HG2	MET	844	101.133	51.597	75.176	0.00	0.00

ATOM	12685	HG3	MET	844	100.352	53.066	75.755	0.00	0.00
ATOM	12686	SD	MET	844	99.062	52.270	74.095	0.00	0.00
ATOM	12687	CE	MET	844	98.195	51.464	75.420	0.00	0.00
ATOM	12688	HE1	MET	844	97.838	50.518	75.012	0.00	0.00
ATOM	12689	HE2	MET	844	98.902	51.118	76.173	0.00	0.00
ATOM	12690	HE3	MET	844	97.535	52.113	75.996	0.00	0.00
ATOM	12691	C	MET	844	104.128	53.998	73.949	0.00	0.00
ATOM	12692	O	MET	844	104.717	55.027	73.825	0.00	0.00
ATOM	12693	N	GLU	845	104.561	52.993	73.195	0.00	0.00
ATOM	12694	H	GLU	845	104.072	52.114	73.287	0.00	0.00
ATOM	12695	CA	GLU	845	106.020	52.876	72.842	0.00	0.00
ATOM	12696	HA	GLU	845	106.536	53.072	73.782	0.00	0.00
ATOM	12697	CB	GLU	845	106.422	51.423	72.392	0.00	0.00
ATOM	12698	HB2	GLU	845	105.712	50.965	71.704	0.00	0.00
ATOM	12699	HB3	GLU	845	107.431	51.430	71.980	0.00	0.00
ATOM	12700	CG	GLU	845	106.550	50.428	73.570	0.00	0.00
ATOM	12701	HG2	GLU	845	107.144	49.571	73.252	0.00	0.00
ATOM	12702	HG3	GLU	845	107.091	50.924	74.376	0.00	0.00
ATOM	12703	CD	GLU	845	105.178	50.024	74.121	0.00	0.00
ATOM	12704	OE1	GLU	845	104.849	50.362	75.268	0.00	0.00
ATOM	12705	OE2	GLU	845	104.467	49.300	73.455	0.00	0.00
ATOM	12706	C	GLU	845	106.507	53.860	71.851	0.00	0.00
ATOM	12707	O	GLU	845	107.702	54.120	71.852	0.00	0.00
ATOM	12708	N	GLY	846	105.657	54.398	70.999	0.00	0.00
ATOM	12709	H	GLY	846	104.704	54.076	71.083	0.00	0.00
ATOM	12710	CA	GLY	846	105.811	55.431	70.001	0.00	0.00

ATOM	12711	HA2	GLY	846	106.842	55.750	69.850	0.00	0.00
ATOM	12712	HA3	GLY	846	105.681	54.980	69.017	0.00	0.00
ATOM	12713	C	GLY	846	104.990	56.671	70.357	0.00	0.00
ATOM	12714	O	GLY	846	104.832	57.513	69.486	0.00	0.00
ATOM	12715	N	VAL	847	104.485	56.904	71.586	0.00	0.00
ATOM	12716	H	VAL	847	104.640	56.205	72.299	0.00	0.00
ATOM	12717	CA	VAL	847	103.745	58.108	71.944	0.00	0.00
ATOM	12718	HA	VAL	847	102.970	58.222	71.186	0.00	0.00
ATOM	12719	CB	VAL	847	102.834	57.946	73.235	0.00	0.00
ATOM	12720	HB	VAL	847	103.449	57.375	73.931	0.00	0.00
ATOM	12721	CG1	VAL	847	102.199	59.175	73.874	0.00	0.00
ATOM	12722	1HG1	VAL	847	102.925	59.896	74.249	0.00	0.00
ATOM	12723	2HG1	VAL	847	101.746	59.772	73.082	0.00	0.00
ATOM	12724	3HG1	VAL	847	101.411	58.847	74.551	0.00	0.00
ATOM	12725	CG2	VAL	847	101.693	56.997	72.961	0.00	0.00
ATOM	12726	1HG2	VAL	847	101.899	56.122	72.345	0.00	0.00
ATOM	12727	2HG2	VAL	847	101.271	56.700	73.920	0.00	0.00
ATOM	12728	3HG2	VAL	847	100.857	57.553	72.537	0.00	0.00
ATOM	12729	C	VAL	847	104.436	59.452	71.989	0.00	0.00
ATOM	12730	O	VAL	847	103.822	60.401	71.438	0.00	0.00
ATOM	12731	N	PRO	848	105.720	59.563	72.467	0.00	0.00
ATOM	12732	CD	PRO	848	106.402	58.540	73.249	0.00	0.00
ATOM	12733	HD2	PRO	848	105.694	57.969	73.850	0.00	0.00
ATOM	12734	HD3	PRO	848	107.027	57.928	72.598	0.00	0.00
ATOM	12735	CG	PRO	848	107.362	59.409	74.149	0.00	0.00
ATOM	12736	HG2	PRO	848	106.772	59.750	75.000	0.00	0.00

ATOM	12737	HG3 PRO	848	108.290	58.895	74.402	0.00	0.00
ATOM	12738	CB PRO	848	107.717	60.617	73.196	0.00	0.00
ATOM	12739	HB2 PRO	848	107.864	61.496	73.824	0.00	0.00
ATOM	12740	HB3 PRO	848	108.570	60.359	72.569	0.00	0.00
ATOM	12741	CA PRO	848	106.444	60.841	72.359	0.00	0.00
ATOM	12742	HA PRO	848	105.883	61.619	72.877	0.00	0.00
ATOM	12743	C PRO	848	106.638	61.239	70.862	0.00	0.00
ATOM	12744	O PRO	848	106.558	62.417	70.528	0.00	0.00
ATOM	12745	N GLU	849	106.708	60.421	69.845	0.00	0.00
ATOM	12746	H GLU	849	106.886	59.466	70.121	0.00	0.00
ATOM	12747	CA GLU	849	106.793	60.695	68.402	0.00	0.00
ATOM	12748	HA GLU	849	107.582	61.408	68.161	0.00	0.00
ATOM	12749	CB GLU	849	107.104	59.361	67.644	0.00	0.00
ATOM	12750	HB2 GLU	849	106.289	58.642	67.731	0.00	0.00
ATOM	12751	HB3 GLU	849	106.996	59.552	66.577	0.00	0.00
ATOM	12752	CG GLU	849	108.479	58.764	67.857	0.00	0.00
ATOM	12753	HG2 GLU	849	108.515	57.830	67.297	0.00	0.00
ATOM	12754	HG3 GLU	849	109.221	59.444	67.438	0.00	0.00
ATOM	12755	CD GLU	849	108.832	58.588	69.323	0.00	0.00
ATOM	12756	OE1 GLU	849	110.002	58.705	69.710	0.00	0.00
ATOM	12757	OE2 GLU	849	107.998	58.059	70.088	0.00	0.00
ATOM	12758	C GLU	849	105.423	61.167	67.897	0.00	0.00
ATOM	12759	O GLU	849	105.360	61.525	66.732	0.00	0.00
ATOM	12760	N MET	850	104.332	61.235	68.700	0.00	0.00
ATOM	12761	H MET	850	104.461	60.886	69.639	0.00	0.00
ATOM	12762	CA MET	850	103.155	62.076	68.497	0.00	0.00

ATOM	12763	HA	MET	850	103.133	62.439	67.469	0.00	0.00
ATOM	12764	CB	MET	850	101.812	61.262	68.735	0.00	0.00
ATOM	12765	HB2	MET	850	101.690	60.976	69.780	0.00	0.00
ATOM	12766	HB3	MET	850	100.978	61.901	68.443	0.00	0.00
ATOM	12767	CG	MET	850	101.685	59.955	67.850	0.00	0.00
ATOM	12768	HG2	MET	850	101.673	60.349	66.833	0.00	0.00
ATOM	12769	HG3	MET	850	102.592	59.407	68.102	0.00	0.00
ATOM	12770	SD	MET	850	100.163	58.990	68.224	0.00	0.00
ATOM	12771	CE	MET	850	98.849	59.980	67.414	0.00	0.00
ATOM	12772	HE1	MET	850	99.038	60.002	66.341	0.00	0.00
ATOM	12773	HE2	MET	850	97.857	59.605	67.666	0.00	0.00
ATOM	12774	HE3	MET	850	98.934	60.973	67.855	0.00	0.00
ATOM	12775	C	MET	850	103.075	63.316	69.270	0.00	0.00
ATOM	12776	O	MET	850	102.209	64.158	68.981	0.00	0.00
ATOM	12777	N	ILE	851	103.969	63.597	70.220	0.00	0.00
ATOM	12778	H	ILE	851	104.734	62.966	70.410	0.00	0.00
ATOM	12779	CA	ILE	851	103.798	64.685	71.187	0.00	0.00
ATOM	12780	HA	ILE	851	102.896	65.226	70.902	0.00	0.00
ATOM	12781	CB	ILE	851	103.495	64.250	72.642	0.00	0.00
ATOM	12782	HB	ILE	851	104.251	63.569	73.034	0.00	0.00
ATOM	12783	CG2	ILE	851	103.243	65.338	73.637	0.00	0.00
ATOM	12784	1HG2	ILE	851	103.457	65.031	74.661	0.00	0.00
ATOM	12785	2HG2	ILE	851	104.044	66.069	73.528	0.00	0.00
ATOM	12786	3HG2	ILE	851	102.217	65.698	73.563	0.00	0.00
ATOM	12787	CG1	ILE	851	102.262	63.342	72.708	0.00	0.00
ATOM	12788	2HG1	ILE	851	101.401	63.918	72.371	0.00	0.00

ATOM	12789	3HG1	ILE	851	102.274	62.521	71.991	0.00	0.00
ATOM	12790	CD1	ILE	851	101.880	62.750	74.040	0.00	0.00
ATOM	12791	1HD1	ILE	851	102.787	62.506	74.593	0.00	0.00
ATOM	12792	2HD1	ILE	851	101.375	63.490	74.661	0.00	0.00
ATOM	12793	3HD1	ILE	851	101.260	61.858	73.953	0.00	0.00
ATOM	12794	C	ILE	851	105.067	65.558	71.020	0.00	0.00
ATOM	12795	O	ILE	851	105.993	65.364	71.818	0.00	0.00
ATOM	12796	N	PRO	852	105.083	66.417	69.999	0.00	0.00
ATOM	12797	CD	PRO	852	104.082	66.581	68.916	0.00	0.00
ATOM	12798	HD2	PRO	852	104.022	65.784	68.175	0.00	0.00
ATOM	12799	HD3	PRO	852	103.134	66.815	69.402	0.00	0.00
ATOM	12800	CG	PRO	852	104.596	67.792	68.125	0.00	0.00
ATOM	12801	HG2	PRO	852	104.458	67.620	67.058	0.00	0.00
ATOM	12802	HG3	PRO	852	104.098	68.693	68.486	0.00	0.00
ATOM	12803	CB	PRO	852	106.073	67.892	68.483	0.00	0.00
ATOM	12804	HB2	PRO	852	106.565	67.064	67.972	0.00	0.00
ATOM	12805	HB3	PRO	852	106.445	68.902	68.309	0.00	0.00
ATOM	12806	CA	PRO	852	106.149	67.419	69.952	0.00	0.00
ATOM	12807	HA	PRO	852	107.113	66.957	70.162	0.00	0.00
ATOM	12808	C	PRO	852	105.948	68.536	70.937	0.00	0.00
ATOM	12809	O	PRO	852	106.972	69.093	71.353	0.00	0.00
ATOM	12810	N	ASP	853	104.743	68.929	71.316	0.00	0.00
ATOM	12811	H	ASP	853	104.010	68.316	70.989	0.00	0.00
ATOM	12812	CA	ASP	853	104.373	70.149	72.103	0.00	0.00
ATOM	12813	HA	ASP	853	104.993	70.012	72.989	0.00	0.00
ATOM	12814	CB	ASP	853	104.719	71.369	71.306	0.00	0.00



ATOM	12815	HB2	ASP	853	104.702	72.148	72.068	0.00	0.00
ATOM	12816	HB3	ASP	853	105.752	71.339	70.959	0.00	0.00
ATOM	12817	CG	ASP	853	103.654	71.700	70.164	0.00	0.00
ATOM	12818	OD1	ASP	853	102.728	72.502	70.299	0.00	0.00
ATOM	12819	OD2	ASP	853	103.680	71.143	69.049	0.00	0.00
ATOM	12820	C	ASP	853	102.927	70.161	72.510	0.00	0.00
ATOM	12821	O	ASP	853	102.109	69.446	71.971	0.00	0.00
ATOM	12822	N	ILE	854	102.641	70.914	73.558	0.00	0.00
ATOM	12823	H	ILE	854	103.391	71.435	73.989	0.00	0.00
ATOM	12824	CA	ILE	854	101.327	71.307	74.039	0.00	0.00
ATOM	12825	HA	ILE	854	100.600	71.052	73.267	0.00	0.00
ATOM	12826	CB	ILE	854	100.951	70.541	75.341	0.00	0.00
ATOM	12827	HB	ILE	854	99.903	70.721	75.583	0.00	0.00
ATOM	12828	CG2	ILE	854	101.081	68.991	75.198	0.00	0.00
ATOM	12829	1HG2	ILE	854	102.059	68.727	75.600	0.00	0.00
ATOM	12830	2HG2	ILE	854	100.422	68.417	75.848	0.00	0.00
ATOM	12831	3HG2	ILE	854	100.988	68.630	74.174	0.00	0.00
ATOM	12832	CG1	ILE	854	101.841	70.946	76.583	0.00	0.00
ATOM	12833	2HG1	ILE	854	102.819	70.468	76.538	0.00	0.00
ATOM	12834	3HG1	ILE	854	102.033	72.019	76.571	0.00	0.00
ATOM	12835	CD1	ILE	854	101.321	70.774	77.990	0.00	0.00
ATOM	12836	1HD1	ILE	854	101.063	69.716	77.972	0.00	0.00
ATOM	12837	2HD1	ILE	854	101.999	70.982	78.818	0.00	0.00
ATOM	12838	3HD1	ILE	854	100.414	71.376	78.048	0.00	0.00
ATOM	12839	C	ILE	854	101.265	72.846	74.127	0.00	0.00
ATOM	12840	O	ILE	854	102.246	73.401	74.605	0.00	0.00

ATOM	12841	N	GLN	855	100.108	73.519	73.773	0.00	0.00
ATOM	12842	H	GLN	855	99.361	72.977	73.361	0.00	0.00
ATOM	12843	CA	GLN	855	99.868	74.978	73.983	0.00	0.00
ATOM	12844	HA	GLN	855	100.829	75.374	74.310	0.00	0.00
ATOM	12845	CB	GLN	855	99.461	75.580	72.621	0.00	0.00
ATOM	12846	HB2	GLN	855	98.927	74.774	72.117	0.00	0.00
ATOM	12847	HB3	GLN	855	98.812	76.451	72.706	0.00	0.00
ATOM	12848	CG	GLN	855	100.632	75.834	71.684	0.00	0.00
ATOM	12849	HG2	GLN	855	101.039	76.833	71.843	0.00	0.00
ATOM	12850	HG3	GLN	855	101.352	75.028	71.830	0.00	0.00
ATOM	12851	CD	GLN	855	100.081	75.852	70.299	0.00	0.00
ATOM	12852	OE1	GLN	855	98.937	76.159	69.986	0.00	0.00
ATOM	12853	NE2	GLN	855	100.809	75.517	69.267	0.00	0.00
ATOM	12854	1HE2	GLN	855	100.485	75.694	68.326	0.00	0.00
ATOM	12855	2HE2	GLN	855	101.744	75.149	69.365	0.00	0.00
ATOM	12856	C	GLN	855	98.730	74.985	75.050	0.00	0.00
ATOM	12857	O	GLN	855	97.782	74.230	74.933	0.00	0.00
ATOM	12858	N	VAL	856	98.730	75.989	75.998	0.00	0.00
ATOM	12859	H	VAL	856	99.519	76.612	76.093	0.00	0.00
ATOM	12860	CA	VAL	856	97.892	76.073	77.224	0.00	0.00
ATOM	12861	HA	VAL	856	96.925	75.609	77.030	0.00	0.00
ATOM	12862	CB	VAL	856	98.526	75.233	78.404	0.00	0.00
ATOM	12863	HB	VAL	856	99.579	75.464	78.564	0.00	0.00
ATOM	12864	CG1	VAL	856	97.794	75.462	79.700	0.00	0.00
ATOM	12865	1HG1	VAL	856	97.980	76.483	80.034	0.00	0.00
ATOM	12866	2HG1	VAL	856	96.721	75.294	79.602	0.00	0.00

ATOM	12867	3HG1	VAL	856	98.146	74.810	80.499	0.00	0.00
ATOM	12868	CG2	VAL	856	98.378	73.697	78.178	0.00	0.00
ATOM	12869	1HG2	VAL	856	98.774	73.368	77.217	0.00	0.00
ATOM	12870	2HG2	VAL	856	98.822	73.198	79.040	0.00	0.00
ATOM	12871	3HG2	VAL	856	97.302	73.524	78.162	0.00	0.00
ATOM	12872	C	VAL	856	97.568	77.414	77.727	0.00	0.00
ATOM	12873	O	VAL	856	98.424	78.242	77.921	0.00	0.00
ATOM	12874	N	GLU	857	96.253	77.697	77.998	0.00	0.00
ATOM	12875	H	GLU	857	95.541	77.006	77.806	0.00	0.00
ATOM	12876	CA	GLU	857	95.835	78.978	78.634	0.00	0.00
ATOM	12877	HA	GLU	857	96.771	79.493	78.848	0.00	0.00
ATOM	12878	CB	GLU	857	94.947	79.968	77.802	0.00	0.00
ATOM	12879	HB2	GLU	857	94.098	79.435	77.375	0.00	0.00
ATOM	12880	HB3	GLU	857	94.506	80.689	78.491	0.00	0.00
ATOM	12881	CG	GLU	857	95.623	80.618	76.579	0.00	0.00
ATOM	12882	HG2	GLU	857	95.356	80.202	75.608	0.00	0.00
ATOM	12883	HG3	GLU	857	96.698	80.651	76.758	0.00	0.00
ATOM	12884	CD	GLU	857	95.202	82.064	76.333	0.00	0.00
ATOM	12885	OE1	GLU	857	95.613	82.658	75.324	0.00	0.00
ATOM	12886	OE2	GLU	857	94.482	82.713	77.048	0.00	0.00
ATOM	12887	C	GLU	857	95.025	78.645	79.966	0.00	0.00
ATOM	12888	O	GLU	857	94.155	77.771	79.982	0.00	0.00
ATOM	12889	N	ALA	858	95.211	79.408	81.016	0.00	0.00
ATOM	12890	H	ALA	858	95.903	80.142	80.960	0.00	0.00
ATOM	12891	CA	ALA	858	94.803	79.198	82.422	0.00	0.00
ATOM	12892	HA	ALA	858	93.747	78.929	82.417	0.00	0.00

ATOM	12893	CB	ALA	858	95.500	77.941	83.104	0.00	0.00
ATOM	12894	HB1	ALA	858	95.303	77.876	84.174	0.00	0.00
ATOM	12895	HB2	ALA	858	94.998	77.060	82.703	0.00	0.00
ATOM	12896	HB3	ALA	858	96.567	77.843	82.906	0.00	0.00
ATOM	12897	C	ALA	858	95.068	80.508	83.198	0.00	0.00
ATOM	12898	O	ALA	858	96.033	81.210	82.849	0.00	0.00
ATOM	12899	N	THR	859	94.284	80.805	84.265	0.00	0.00
ATOM	12900	H	THR	859	93.542	80.162	84.504	0.00	0.00
ATOM	12901	CA	THR	859	94.363	82.085	85.052	0.00	0.00
ATOM	12902	HA	THR	859	94.389	82.879	84.306	0.00	0.00
ATOM	12903	CB	THR	859	93.123	82.398	85.943	0.00	0.00
ATOM	12904	HB	THR	859	93.020	81.697	86.772	0.00	0.00
ATOM	12905	CG2	THR	859	93.101	83.804	86.455	0.00	0.00
ATOM	12906	1HG2	THR	859	93.716	83.921	87.347	0.00	0.00
ATOM	12907	2HG2	THR	859	93.445	84.551	85.739	0.00	0.00
ATOM	12908	3HG2	THR	859	92.114	84.109	86.803	0.00	0.00
ATOM	12909	OG1	THR	859	91.971	82.243	85.176	0.00	0.00
ATOM	12910	HG1	THR	859	91.873	81.378	84.771	0.00	0.00
ATOM	12911	C	THR	859	95.660	82.112	85.856	0.00	0.00
ATOM	12912	O	THR	859	95.685	81.635	86.967	0.00	0.00
ATOM	12913	N	PHE	860	96.677	82.816	85.346	0.00	0.00
ATOM	12914	H	PHE	860	96.603	82.998	84.355	0.00	0.00
ATOM	12915	CA	PHE	860	97.823	83.339	86.120	0.00	0.00
ATOM	12916	HA	PHE	860	98.219	82.675	86.888	0.00	0.00
ATOM	12917	CB	PHE	860	98.973	83.679	85.160	0.00	0.00
ATOM	12918	HB2	PHE	860	98.475	84.308	84.423	0.00	0.00

ATOM	12919	HB3	PHE	860	99.770	84.297	85.573	0.00	0.00
ATOM	12920	CG	PHE	860	99.558	82.466	84.390	0.00	0.00
ATOM	12921	CD1	PHE	860	100.732	81.880	84.885	0.00	0.00
ATOM	12922	HD1	PHE	860	101.244	82.333	85.721	0.00	0.00
ATOM	12923	CE1	PHE	860	101.225	80.740	84.282	0.00	0.00
ATOM	12924	HE1	PHE	860	102.051	80.208	84.730	0.00	0.00
ATOM	12925	CZ	PHE	860	100.587	80.202	83.167	0.00	0.00
ATOM	12926	HZ	PHE	860	100.808	79.256	82.694	0.00	0.00
ATOM	12927	CE2	PHE	860	99.455	80.798	82.664	0.00	0.00
ATOM	12928	HE2	PHE	860	98.900	80.308	81.877	0.00	0.00
ATOM	12929	CD2	PHE	860	98.913	81.904	83.274	0.00	0.00
ATOM	12930	HD2	PHE	860	98.047	82.298	82.762	0.00	0.00
ATOM	12931	C	PHE	860	97.295	84.591	87.007	0.00	0.00
ATOM	12932	O	PHE	860	96.122	85.023	86.892	0.00	0.00
ATOM	12933	N	PRO	861	98.043	85.142	87.962	0.00	0.00
ATOM	12934	CD	PRO	861	99.346	84.696	88.342	0.00	0.00
ATOM	12935	HD2	PRO	861	100.032	85.233	87.687	0.00	0.00
ATOM	12936	HD3	PRO	861	99.516	83.644	88.111	0.00	0.00
ATOM	12937	CG	PRO	861	99.559	84.926	89.810	0.00	0.00
ATOM	12938	HG2	PRO	861	98.945	84.195	90.338	0.00	0.00
ATOM	12939	HG3	PRO	861	100.621	84.962	90.050	0.00	0.00
ATOM	12940	CB	PRO	861	98.977	86.301	89.757	0.00	0.00
ATOM	12941	HB2	PRO	861	98.933	86.864	90.689	0.00	0.00
ATOM	12942	HB3	PRO	861	99.770	86.876	89.280	0.00	0.00
ATOM	12943	CA	PRO	861	97.713	86.232	88.854	0.00	0.00
ATOM	12944	HA	PRO	861	96.860	85.973	89.480	0.00	0.00

ATOM	12945	C	PRO	861	97.397	87.673	88.366	0.00	0.00
ATOM	12946	O	PRO	861	97.301	88.584	89.152	0.00	0.00
ATOM	12947	N	ASP	862	97.083	87.749	87.068	0.00	0.00
ATOM	12948	H	ASP	862	97.092	86.844	86.618	0.00	0.00
ATOM	12949	CA	ASP	862	96.456	88.890	86.401	0.00	0.00
ATOM	12950	HA	ASP	862	95.936	89.426	87.196	0.00	0.00
ATOM	12951	CB	ASP	862	97.593	89.743	85.791	0.00	0.00
ATOM	12952	HB2	ASP	862	97.280	90.775	85.635	0.00	0.00
ATOM	12953	HB3	ASP	862	98.378	89.820	86.543	0.00	0.00
ATOM	12954	CG	ASP	862	98.208	89.230	84.434	0.00	0.00
ATOM	12955	OD1	ASP	862	99.327	88.754	84.392	0.00	0.00
ATOM	12956	OD2	ASP	862	97.466	89.412	83.427	0.00	0.00
ATOM	12957	C	ASP	862	95.271	88.515	85.379	0.00	0.00
ATOM	12958	O	ASP	862	94.578	89.342	84.840	0.00	0.00
ATOM	12959	N	GLY	863	95.081	87.215	85.089	0.00	0.00
ATOM	12960	H	GLY	863	95.633	86.550	85.612	0.00	0.00
ATOM	12961	CA	GLY	863	94.043	86.612	84.201	0.00	0.00
ATOM	12962	HA2	GLY	863	93.215	86.168	84.755	0.00	0.00
ATOM	12963	HA3	GLY	863	93.731	87.450	83.578	0.00	0.00
ATOM	12964	C	GLY	863	94.605	85.494	83.263	0.00	0.00
ATOM	12965	O	GLY	863	95.719	85.066	83.644	0.00	0.00
ATOM	12966	N	SER	864	94.007	85.116	82.183	0.00	0.00
ATOM	12967	H	SER	864	93.151	85.583	81.917	0.00	0.00
ATOM	12968	CA	SER	864	94.533	84.021	81.349	0.00	0.00
ATOM	12969	HA	SER	864	94.862	83.212	82.001	0.00	0.00
ATOM	12970	CB	SER	864	93.451	83.406	80.483	0.00	0.00

ATOM	12971	HB2	SER	864	93.271	84.002	79.588	0.00	0.00
ATOM	12972	HB3	SER	864	93.743	82.427	80.104	0.00	0.00
ATOM	12973	OG	SER	864	92.224	83.328	81.094	0.00	0.00
ATOM	12974	HG	SER	864	91.863	84.206	80.953	0.00	0.00
ATOM	12975	C	SER	864	95.690	84.566	80.481	0.00	0.00
ATOM	12976	O	SER	864	95.684	85.631	79.874	0.00	0.00
ATOM	12977	N	LYS	865	96.673	83.694	80.582	0.00	0.00
ATOM	12978	H	LYS	865	96.539	82.750	80.915	0.00	0.00
ATOM	12979	CA	LYS	865	97.867	83.912	79.800	0.00	0.00
ATOM	12980	HA	LYS	865	97.772	84.789	79.159	0.00	0.00
ATOM	12981	CB	LYS	865	99.132	84.290	80.662	0.00	0.00
ATOM	12982	HB2	LYS	865	99.590	83.389	81.072	0.00	0.00
ATOM	12983	HB3	LYS	865	99.939	84.661	80.030	0.00	0.00
ATOM	12984	CG	LYS	865	98.881	85.209	81.910	0.00	0.00
ATOM	12985	HG2	LYS	865	98.059	84.763	82.471	0.00	0.00
ATOM	12986	HG3	LYS	865	99.831	85.159	82.441	0.00	0.00
ATOM	12987	CD	LYS	865	98.405	86.595	81.620	0.00	0.00
ATOM	12988	HD2	LYS	865	97.685	86.592	80.801	0.00	0.00
ATOM	12989	HD3	LYS	865	97.917	86.942	82.531	0.00	0.00
ATOM	12990	CE	LYS	865	99.488	87.510	81.140	0.00	0.00
ATOM	12991	HE2	LYS	865	100.400	87.330	81.709	0.00	0.00
ATOM	12992	HE3	LYS	865	99.637	87.195	80.108	0.00	0.00
ATOM	12993	NZ	LYS	865	98.971	88.902	81.261	0.00	0.00
ATOM	12994	HZ1	LYS	865	98.467	89.123	82.108	0.00	0.00
ATOM	12995	HZ2	LYS	865	99.738	89.550	81.155	0.00	0.00
ATOM	12996	HZ3	LYS	865	98.373	89.125	80.478	0.00	0.00

ATOM	12997	C	LYS	865	98.233	82.668	78.965	0.00	0.00
ATOM	12998	O	LYS	865	97.879	81.594	79.315	0.00	0.00
ATOM	12999	N	LEU	866	99.150	82.805	77.977	0.00	0.00
ATOM	13000	H	LEU	866	99.601	83.686	77.775	0.00	0.00
ATOM	13001	CA	LEU	866	99.677	81.614	77.247	0.00	0.00
ATOM	13002	HA	LEU	866	99.006	80.769	77.397	0.00	0.00
ATOM	13003	CB	LEU	866	99.754	81.995	75.771	0.00	0.00
ATOM	13004	HB2	LEU	866	98.783	82.398	75.485	0.00	0.00
ATOM	13005	HB3	LEU	866	100.558	82.728	75.700	0.00	0.00
ATOM	13006	CG	LEU	866	100.147	80.906	74.816	0.00	0.00
ATOM	13007	HG	LEU	866	101.081	80.486	75.188	0.00	0.00
ATOM	13008	CD1	LEU	866	99.228	79.748	74.498	0.00	0.00
ATOM	13009	1HD1	LEU	866	98.874	79.341	75.446	0.00	0.00
ATOM	13010	2HD1	LEU	866	98.402	80.096	73.877	0.00	0.00
ATOM	13011	3HD1	LEU	866	99.733	78.908	74.021	0.00	0.00
ATOM	13012	CD2	LEU	866	100.601	81.599	73.519	0.00	0.00
ATOM	13013	1HD2	LEU	866	101.208	80.909	72.932	0.00	0.00
ATOM	13014	2HD2	LEU	866	99.711	81.833	72.934	0.00	0.00
ATOM	13015	3HD2	LEU	866	101.285	82.414	73.755	0.00	0.00
ATOM	13016	C	LEU	866	100.974	81.110	77.733	0.00	0.00
ATOM	13017	O	LEU	866	101.972	81.781	77.686	0.00	0.00
ATOM	13018	N	VAL	867	101.027	79.799	78.081	0.00	0.00
ATOM	13019	H	VAL	867	100.144	79.308	78.070	0.00	0.00
ATOM	13020	CA	VAL	867	102.203	78.956	78.270	0.00	0.00
ATOM	13021	HA	VAL	867	102.957	79.677	77.954	0.00	0.00
ATOM	13022	CB	VAL	867	102.267	78.469	79.744	0.00	0.00



ATOM 13023 HB VAL 867 102.169 79.336 80.399 0.00 0.00  
ATOM 13024 CG1 VAL 867 101.117 77.661 80.199 0.00 0.00  
ATOM 13025 1HG1 VAL 867 101.043 76.654 79.788 0.00 0.00  
ATOM 13026 2HG1 VAL 867 101.216 77.631 81.285 0.00 0.00  
ATOM 13027 3HG1 VAL 867 100.172 78.166 80.002 0.00 0.00  
ATOM 13028 CG2 VAL 867 103.555 77.817 80.081 0.00 0.00  
ATOM 13029 1HG2 VAL 867 103.661 76.839 79.612 0.00 0.00  
ATOM 13030 2HG2 VAL 867 104.364 78.383 79.620 0.00 0.00  
ATOM 13031 3HG2 VAL 867 103.665 77.679 81.156 0.00 0.00  
ATOM 13032 C VAL 867 102.257 77.929 77.163 0.00 0.00  
ATOM 13033 O VAL 867 101.245 77.189 76.996 0.00 0.00  
ATOM 13034 N THR 868 103.434 77.680 76.645 0.00 0.00  
ATOM 13035 H THR 868 104.272 78.153 76.952 0.00 0.00  
ATOM 13036 CA THR 868 103.700 76.527 75.801 0.00 0.00  
ATOM 13037 HA THR 868 102.804 75.929 75.635 0.00 0.00  
ATOM 13038 CB THR 868 104.192 76.973 74.396 0.00 0.00  
ATOM 13039 HB THR 868 104.289 76.057 73.814 0.00 0.00  
ATOM 13040 CG2 THR 868 103.229 77.906 73.696 0.00 0.00  
ATOM 13041 1HG2 THR 868 103.502 78.066 72.653 0.00 0.00  
ATOM 13042 2HG2 THR 868 102.238 77.454 73.658 0.00 0.00  
ATOM 13043 3HG2 THR 868 103.113 78.846 74.234 0.00 0.00  
ATOM 13044 OG1 THR 868 105.375 77.692 74.489 0.00 0.00  
ATOM 13045 HG1 THR 868 105.455 77.985 75.400 0.00 0.00  
ATOM 13046 C THR 868 104.630 75.578 76.522 0.00 0.00  
ATOM 13047 O THR 868 105.386 76.032 77.358 0.00 0.00  
ATOM 13048 N VAL 869 104.721 74.325 76.090 0.00 0.00

ATOM 13049 H VAL 869 104.030 74.117 75.384 0.00 0.00  
ATOM 13050 CA VAL 869 105.762 73.358 76.270 0.00 0.00  
ATOM 13051 HA VAL 869 106.675 73.891 76.534 0.00 0.00  
ATOM 13052 CB VAL 869 105.500 72.414 77.479 0.00 0.00  
ATOM 13053 HB VAL 869 104.533 71.975 77.235 0.00 0.00  
ATOM 13054 CG1 VAL 869 106.438 71.249 77.654 0.00 0.00  
ATOM 13055 1HG1 VAL 869 106.376 70.529 78.470 0.00 0.00  
ATOM 13056 2HG1 VAL 869 106.472 70.698 76.714 0.00 0.00  
ATOM 13057 3HG1 VAL 869 107.446 71.631 77.809 0.00 0.00  
ATOM 13058 CG2 VAL 869 105.361 73.233 78.760 0.00 0.00  
ATOM 13059 1HG2 VAL 869 105.142 72.613 79.629 0.00 0.00  
ATOM 13060 2HG2 VAL 869 106.281 73.812 78.852 0.00 0.00  
ATOM 13061 3HG2 VAL 869 104.537 73.930 78.612 0.00 0.00  
ATOM 13062 C VAL 869 106.056 72.537 75.027 0.00 0.00  
ATOM 13063 O VAL 869 105.098 71.996 74.523 0.00 0.00  
ATOM 13064 N HIE 870 107.322 72.387 74.564 0.00 0.00  
ATOM 13065 H HIE 870 107.992 72.831 75.175 0.00 0.00  
ATOM 13066 CA HIE 870 107.814 71.594 73.424 0.00 0.00  
ATOM 13067 HA HIE 870 107.055 70.986 72.931 0.00 0.00  
ATOM 13068 CB HIE 870 108.391 72.472 72.367 0.00 0.00  
ATOM 13069 HB2 HIE 870 109.013 71.813 71.760 0.00 0.00  
ATOM 13070 HB3 HIE 870 107.460 72.662 71.833 0.00 0.00  
ATOM 13071 CG HIE 870 109.117 73.762 72.639 0.00 0.00  
ATOM 13072 ND1 HIE 870 110.528 73.993 72.639 0.00 0.00  
ATOM 13073 CE1 HIE 870 110.686 75.316 72.927 0.00 0.00  
ATOM 13074 HE1 HIE 870 111.611 75.866 73.013 0.00 0.00

ATOM	13075	NE2	HIE	870	109.498	75.930	73.122	0.00	0.00
ATOM	13076	HE2	HIE	870	109.306	76.892	73.364	0.00	0.00
ATOM	13077	CD2	HIE	870	108.496	75.013	72.873	0.00	0.00
ATOM	13078	HD2	HIE	870	107.432	75.155	72.987	0.00	0.00
ATOM	13079	C	HIE	870	108.836	70.554	73.956	0.00	0.00
ATOM	13080	O	HIE	870	109.603	70.720	74.941	0.00	0.00
ATOM	13081	N	ASN	871	109.010	69.541	73.135	0.00	0.00
ATOM	13082	H	ASN	871	108.612	69.550	72.206	0.00	0.00
ATOM	13083	CA	ASN	871	109.809	68.306	73.385	0.00	0.00
ATOM	13084	HA	ASN	871	109.250	67.693	72.678	0.00	0.00
ATOM	13085	CB	ASN	871	111.292	68.534	72.877	0.00	0.00
ATOM	13086	HB2	ASN	871	111.159	69.099	71.955	0.00	0.00
ATOM	13087	HB3	ASN	871	111.772	69.208	73.588	0.00	0.00
ATOM	13088	CG	ASN	871	111.990	67.130	72.509	0.00	0.00
ATOM	13089	OD1	ASN	871	111.650	66.477	71.512	0.00	0.00
ATOM	13090	ND2	ASN	871	113.023	66.763	73.203	0.00	0.00
ATOM	13091	1HD2	ASN	871	113.329	65.827	72.981	0.00	0.00
ATOM	13092	2HD2	ASN	871	113.386	67.403	73.895	0.00	0.00
ATOM	13093	C	ASN	871	109.639	67.661	74.809	0.00	0.00
ATOM	13094	O	ASN	871	110.700	67.455	75.501	0.00	0.00
ATOM	13095	N	PRO	872	108.422	67.448	75.326	0.00	0.00
ATOM	13096	CD	PRO	872	107.112	67.597	74.726	0.00	0.00
ATOM	13097	HD2	PRO	872	106.988	68.649	74.466	0.00	0.00
ATOM	13098	HD3	PRO	872	107.019	67.020	73.807	0.00	0.00
ATOM	13099	CG	PRO	872	106.046	67.018	75.665	0.00	0.00
ATOM	13100	HG2	PRO	872	105.062	67.463	75.521	0.00	0.00

ATOM	13101	HG3 PRO	872	106.001	65.937	75.537	0.00	0.00
ATOM	13102	CB PRO	872	106.741	67.193	76.993	0.00	0.00
ATOM	13103	HB2 PRO	872	106.410	68.215	77.181	0.00	0.00
ATOM	13104	HB3 PRO	872	106.391	66.483	77.742	0.00	0.00
ATOM	13105	CA PRO	872	108.281	67.186	76.755	0.00	0.00
ATOM	13106	HA PRO	872	108.675	67.982	77.388	0.00	0.00
ATOM	13107	C PRO	872	108.819	65.822	77.214	0.00	0.00
ATOM	13108	O PRO	872	108.972	65.704	78.453	0.00	0.00
ATOM	13109	N ILE	873	108.946	64.803	76.339	0.00	0.00
ATOM	13110	H ILE	873	108.733	65.038	75.380	0.00	0.00
ATOM	13111	CA ILE	873	109.169	63.343	76.690	0.00	0.00
ATOM	13112	HA ILE	873	109.535	63.249	77.713	0.00	0.00
ATOM	13113	CB ILE	873	107.892	62.509	76.711	0.00	0.00
ATOM	13114	HB ILE	873	107.594	62.354	75.674	0.00	0.00
ATOM	13115	CG2 ILE	873	108.207	61.114	77.364	0.00	0.00
ATOM	13116	1HG2 ILE	873	108.467	61.238	78.415	0.00	0.00
ATOM	13117	2HG2 ILE	873	107.327	60.472	77.403	0.00	0.00
ATOM	13118	3HG2 ILE	873	109.048	60.665	76.834	0.00	0.00
ATOM	13119	CG1 ILE	873	106.716	63.235	77.364	0.00	0.00
ATOM	13120	2HG1 ILE	873	106.659	63.367	78.445	0.00	0.00
ATOM	13121	3HG1 ILE	873	106.600	64.217	76.905	0.00	0.00
ATOM	13122	CD1 ILE	873	105.457	62.439	77.084	0.00	0.00
ATOM	13123	1HD1 ILE	873	104.639	63.155	77.168	0.00	0.00
ATOM	13124	2HD1 ILE	873	105.445	61.977	76.097	0.00	0.00
ATOM	13125	3HD1 ILE	873	105.339	61.703	77.879	0.00	0.00
ATOM	13126	C ILE	873	110.328	62.810	75.784	0.00	0.00

ATOM 13127 O ILE 873 110.379 63.184 74.590 0.00 0.00  
ATOM 13128 N ILC 874 111.073 61.863 76.284 0.00 0.00  
ATOM 13129 H ILC 874 110.853 61.589 77.231 0.00 0.00  
ATOM 13130 CA ILC 874 112.316 61.240 75.690 0.00 0.00  
ATOM 13131 HA ILC 874 112.704 61.889 74.905 0.00 0.00  
ATOM 13132 CB ILC 874 113.532 61.139 76.652 0.00 0.00  
ATOM 13133 HB ILC 874 113.209 60.343 77.324 0.00 0.00  
ATOM 13134 CG2 ILC 874 114.727 60.613 75.936 0.00 0.00  
ATOM 13135 1HG2 ILC 874 114.501 59.632 75.518 0.00 0.00  
ATOM 13136 2HG2 ILC 874 114.972 61.328 75.151 0.00 0.00  
ATOM 13137 3HG2 ILC 874 115.547 60.555 76.651 0.00 0.00  
ATOM 13138 CG1 ILC 874 113.822 62.419 77.451 0.00 0.00  
ATOM 13139 2HG1 ILC 874 113.009 62.732 78.106 0.00 0.00  
ATOM 13140 3HG1 ILC 874 114.665 62.127 78.077 0.00 0.00  
ATOM 13141 CD1 ILC 874 114.155 63.646 76.609 0.00 0.00  
ATOM 13142 1HD1 ILC 874 113.887 64.604 77.055 0.00 0.00  
ATOM 13143 2HD1 ILC 874 115.223 63.670 76.393 0.00 0.00  
ATOM 13144 3HD1 ILC 874 113.562 63.776 75.704 0.00 0.00  
ATOM 13145 C ILC 874 111.961 59.897 75.007 0.00 0.00  
ATOM 13146 O ILC 874 111.494 58.983 75.733 0.00 0.00  
ATOM 13147 OXT ILC 874 112.040 59.917 73.775 0.00 0.00  
ATOM 13148 N MEN 875 108.895 54.711 60.869 0.00 0.00  
ATOM 13149 H1 MEN 875 108.357 53.862 60.970 0.00 0.00  
ATOM 13150 H2 MEN 875 109.650 54.441 60.255 0.00 0.00  
ATOM 13151 H3 MEN 875 108.173 55.155 60.320 0.00 0.00  
ATOM 13152 CA MEN 875 109.290 55.265 62.189 0.00 0.00

ATOM	13153	HA	MEN	875	109.645	54.466	62.840	0.00	0.00
ATOM	13154	CB	MEN	875	110.592	56.048	62.143	0.00	0.00
ATOM	13155	HB2	MEN	875	111.390	55.374	61.832	0.00	0.00
ATOM	13156	HB3	MEN	875	110.498	56.886	61.452	0.00	0.00
ATOM	13157	CG	MEN	875	110.941	56.421	63.619	0.00	0.00
ATOM	13158	HG2	MEN	875	109.980	56.622	64.093	0.00	0.00
ATOM	13159	HG3	MEN	875	111.329	55.522	64.097	0.00	0.00
ATOM	13160	SD	MEN	875	112.179	57.713	63.817	0.00	0.00
ATOM	13161	CE	MEN	875	113.405	56.840	64.837	0.00	0.00
ATOM	13162	HE1	MEN	875	114.220	57.536	65.031	0.00	0.00
ATOM	13163	HE2	MEN	875	112.990	56.503	65.787	0.00	0.00
ATOM	13164	HE3	MEN	875	113.870	56.067	64.225	0.00	0.00
ATOM	13165	C	MEN	875	108.120	56.090	62.747	0.00	0.00
ATOM	13166	O	MEN	875	107.686	55.751	63.829	0.00	0.00
ATOM	13167	N	ILE	876	107.708	57.140	62.072	0.00	0.00
ATOM	13168	H	ILE	876	108.230	57.434	61.259	0.00	0.00
ATOM	13169	CA	ILE	876	106.693	58.079	62.572	0.00	0.00
ATOM	13170	HA	ILE	876	106.466	57.708	63.571	0.00	0.00
ATOM	13171	CB	ILE	876	107.367	59.480	62.662	0.00	0.00
ATOM	13172	HB	ILE	876	107.785	59.608	61.663	0.00	0.00
ATOM	13173	CG2	ILE	876	106.351	60.619	62.776	0.00	0.00
ATOM	13174	1HG2	ILE	876	106.923	61.510	62.516	0.00	0.00
ATOM	13175	2HG2	ILE	876	105.550	60.695	62.041	0.00	0.00
ATOM	13176	3HG2	ILE	876	105.862	60.721	63.745	0.00	0.00
ATOM	13177	CG1	ILE	876	108.459	59.531	63.731	0.00	0.00
ATOM	13178	2HG1	ILE	876	108.056	59.240	64.701	0.00	0.00

ATOM	13179	3HG1	ILE	876	109.212	58.757	63.587	0.00	0.00
ATOM	13180	CD1	ILE	876	109.235	60.814	63.948	0.00	0.00
ATOM	13181	1HD1	ILE	876	109.919	60.965	63.113	0.00	0.00
ATOM	13182	2HD1	ILE	876	108.554	61.664	63.992	0.00	0.00
ATOM	13183	3HD1	ILE	876	109.848	60.722	64.845	0.00	0.00
ATOM	13184	C	ILE	876	105.397	58.107	61.759	0.00	0.00
ATOM	13185	O	ILE	876	105.515	58.138	60.554	0.00	0.00
ATOM	13186	N	PRO	877	104.200	58.125	62.390	0.00	0.00
ATOM	13187	CD	PRO	877	103.882	57.992	63.826	0.00	0.00
ATOM	13188	HD2	PRO	877	104.624	57.379	64.337	0.00	0.00
ATOM	13189	HD3	PRO	877	103.846	58.940	64.363	0.00	0.00
ATOM	13190	CG	PRO	877	102.533	57.347	63.889	0.00	0.00
ATOM	13191	HG2	PRO	877	102.592	56.295	63.610	0.00	0.00
ATOM	13192	HG3	PRO	877	102.178	57.303	64.919	0.00	0.00
ATOM	13193	CB	PRO	877	101.883	58.256	62.865	0.00	0.00
ATOM	13194	HB2	PRO	877	100.982	57.804	62.450	0.00	0.00
ATOM	13195	HB3	PRO	877	101.812	59.295	63.185	0.00	0.00
ATOM	13196	CA	PRO	877	102.944	58.351	61.752	0.00	0.00
ATOM	13197	HA	PRO	877	102.895	57.560	61.005	0.00	0.00
ATOM	13198	C	PRO	877	102.920	59.565	60.833	0.00	0.00
ATOM	13199	O	PRO	877	103.170	60.733	61.368	0.00	0.00
ATOM	13200	N	GLY	878	102.474	59.425	59.602	0.00	0.00
ATOM	13201	H	GLY	878	102.139	58.530	59.274	0.00	0.00
ATOM	13202	CA	GLY	878	102.481	60.541	58.594	0.00	0.00
ATOM	13203	HA2	GLY	878	101.943	60.185	57.715	0.00	0.00
ATOM	13204	HA3	GLY	878	101.931	61.380	59.021	0.00	0.00

ATOM	13205	C	GLY	878	103.905	61.050	58.136	0.00	0.00
ATOM	13206	O	GLY	878	103.920	62.112	57.567	0.00	0.00
ATOM	13207	N	GLU	879	104.979	60.255	58.408	0.00	0.00
ATOM	13208	H	GLU	879	104.821	59.385	58.895	0.00	0.00
ATOM	13209	CA	GLU	879	106.366	60.605	57.979	0.00	0.00
ATOM	13210	HA	GLU	879	106.615	61.590	58.372	0.00	0.00
ATOM	13211	CB	GLU	879	107.392	59.603	58.484	0.00	0.00
ATOM	13212	HB2	GLU	879	108.366	60.080	58.374	0.00	0.00
ATOM	13213	HB3	GLU	879	107.212	59.524	59.556	0.00	0.00
ATOM	13214	CG	GLU	879	107.480	58.222	57.837	0.00	0.00
ATOM	13215	HG2	GLU	879	106.498	57.818	57.592	0.00	0.00
ATOM	13216	HG3	GLU	879	108.032	58.245	56.897	0.00	0.00
ATOM	13217	CD	GLU	879	108.105	57.247	58.779	0.00	0.00
ATOM	13218	OE1	GLU	879	109.112	57.566	59.404	0.00	0.00
ATOM	13219	OE2	GLU	879	107.565	56.084	58.865	0.00	0.00
ATOM	13220	C	GLU	879	106.403	60.779	56.432	0.00	0.00
ATOM	13221	O	GLU	879	105.633	60.039	55.767	0.00	0.00
ATOM	13222	N	TYR	880	107.061	61.766	55.804	0.00	0.00
ATOM	13223	H	TYR	880	107.561	62.429	56.380	0.00	0.00
ATOM	13224	CA	TYR	880	107.210	61.917	54.313	0.00	0.00
ATOM	13225	HA	TYR	880	106.682	61.029	53.966	0.00	0.00
ATOM	13226	CB	TYR	880	106.477	63.135	53.867	0.00	0.00
ATOM	13227	HB2	TYR	880	106.243	62.987	52.813	0.00	0.00
ATOM	13228	HB3	TYR	880	105.559	63.288	54.434	0.00	0.00
ATOM	13229	CG	TYR	880	107.296	64.411	53.901	0.00	0.00
ATOM	13230	CD1	TYR	880	107.564	65.002	55.164	0.00	0.00



ATOM	13231	HD1	TYR	880	107.218	64.503	56.058	0.00	0.00
ATOM	13232	CE1	TYR	880	108.346	66.190	55.238	0.00	0.00
ATOM	13233	HE1	TYR	880	108.612	66.575	56.211	0.00	0.00
ATOM	13234	CZ	TYR	880	108.849	66.791	54.047	0.00	0.00
ATOM	13235	OH	TYR	880	109.597	67.849	53.993	0.00	0.00
ATOM	13236	HH	TYR	880	109.714	68.301	54.832	0.00	0.00
ATOM	13237	CE2	TYR	880	108.544	66.242	52.794	0.00	0.00
ATOM	13238	HE2	TYR	880	108.823	66.654	51.836	0.00	0.00
ATOM	13239	CD2	TYR	880	107.819	64.993	52.707	0.00	0.00
ATOM	13240	HD2	TYR	880	107.574	64.613	51.726	0.00	0.00
ATOM	13241	C	TYR	880	108.633	61.684	53.815	0.00	0.00
ATOM	13242	O	TYR	880	109.567	61.711	54.670	0.00	0.00
ATOM	13243	N	HIE	881	108.877	61.660	52.530	0.00	0.00
ATOM	13244	H	HIE	881	108.099	61.739	51.891	0.00	0.00
ATOM	13245	CA	HIE	881	110.253	61.573	52.010	0.00	0.00
ATOM	13246	HA	HIE	881	110.993	61.913	52.735	0.00	0.00
ATOM	13247	CB	HIE	881	110.591	60.015	51.899	0.00	0.00
ATOM	13248	HB2	HIE	881	110.560	59.543	52.881	0.00	0.00
ATOM	13249	HB3	HIE	881	109.821	59.438	51.385	0.00	0.00
ATOM	13250	CG	HIE	881	111.928	59.636	51.201	0.00	0.00
ATOM	13251	ND1	HIE	881	112.249	59.973	49.881	0.00	0.00
ATOM	13252	CE1	HIE	881	113.471	59.359	49.713	0.00	0.00
ATOM	13253	HE1	HIE	881	114.089	59.530	48.844	0.00	0.00
ATOM	13254	NE2	HIE	881	113.929	58.687	50.772	0.00	0.00
ATOM	13255	HE2	HIE	881	114.791	58.189	50.942	0.00	0.00
ATOM	13256	CD2	HIE	881	112.852	58.719	51.685	0.00	0.00

ATOM 13257 HD2 HIE 881 112.919 58.405 52.717 0.00 0.00  
ATOM 13258 C HIE 881 110.400 62.345 50.643 0.00 0.00  
ATOM 13259 O HIE 881 109.505 62.565 49.785 0.00 0.00  
ATOM 13260 N VAL 882 111.671 62.798 50.402 0.00 0.00  
ATOM 13261 H VAL 882 112.396 62.590 51.074 0.00 0.00  
ATOM 13262 CA VAL 882 111.996 63.779 49.304 0.00 0.00  
ATOM 13263 HA VAL 882 111.133 63.854 48.643 0.00 0.00  
ATOM 13264 CB VAL 882 112.323 65.197 49.819 0.00 0.00  
ATOM 13265 HB VAL 882 113.233 65.155 50.418 0.00 0.00  
ATOM 13266 CG1 VAL 882 112.646 66.294 48.819 0.00 0.00  
ATOM 13267 1HG1 VAL 882 112.711 67.249 49.341 0.00 0.00  
ATOM 13268 2HG1 VAL 882 113.573 66.023 48.313 0.00 0.00  
ATOM 13269 3HG1 VAL 882 111.790 66.330 48.146 0.00 0.00  
ATOM 13270 CG2 VAL 882 111.233 65.752 50.749 0.00 0.00  
ATOM 13271 1HG2 VAL 882 111.193 65.133 51.646 0.00 0.00  
ATOM 13272 2HG2 VAL 882 111.586 66.672 51.213 0.00 0.00  
ATOM 13273 3HG2 VAL 882 110.301 65.993 50.239 0.00 0.00  
ATOM 13274 C VAL 882 113.202 63.230 48.522 0.00 0.00  
ATOM 13275 O VAL 882 114.233 62.805 49.107 0.00 0.00  
ATOM 13276 N LYS 883 113.086 63.115 47.183 0.00 0.00  
ATOM 13277 H LYS 883 112.208 63.364 46.749 0.00 0.00  
ATOM 13278 CA LYS 883 114.164 62.762 46.338 0.00 0.00  
ATOM 13279 HA LYS 883 114.635 61.854 46.715 0.00 0.00  
ATOM 13280 CB LYS 883 113.643 62.490 44.915 0.00 0.00  
ATOM 13281 HB2 LYS 883 113.091 63.336 44.505 0.00 0.00  
ATOM 13282 HB3 LYS 883 114.500 62.376 44.252 0.00 0.00

ATOM 13283 CG LYS 883 112.685 61.231 44.679 0.00 0.00  
ATOM 13284 HG2 LYS 883 113.151 60.261 44.859 0.00 0.00  
ATOM 13285 HG3 LYS 883 111.740 61.334 45.212 0.00 0.00  
ATOM 13286 CD LYS 883 112.219 61.149 43.158 0.00 0.00  
ATOM 13287 HD2 LYS 883 111.537 61.997 43.093 0.00 0.00  
ATOM 13288 HD3 LYS 883 112.994 61.266 42.402 0.00 0.00  
ATOM 13289 CE LYS 883 111.495 59.793 43.025 0.00 0.00  
ATOM 13290 HE2 LYS 883 111.003 59.667 43.989 0.00 0.00  
ATOM 13291 HE3 LYS 883 110.750 59.720 42.233 0.00 0.00  
ATOM 13292 NZ LYS 883 112.526 58.695 42.820 0.00 0.00  
ATOM 13293 HZ1 LYS 883 112.467 57.841 43.356 0.00 0.00  
ATOM 13294 HZ2 LYS 883 112.701 58.359 41.884 0.00 0.00  
ATOM 13295 HZ3 LYS 883 113.429 59.034 43.118 0.00 0.00  
ATOM 13296 C LYS 883 115.296 63.800 46.190 0.00 0.00  
ATOM 13297 O LYS 883 114.950 64.969 46.067 0.00 0.00  
ATOM 13298 N PRO 884 116.616 63.402 46.156 0.00 0.00  
ATOM 13299 CD PRO 884 117.148 62.096 46.227 0.00 0.00  
ATOM 13300 HD2 PRO 884 116.948 61.630 47.192 0.00 0.00  
ATOM 13301 HD3 PRO 884 116.786 61.420 45.452 0.00 0.00  
ATOM 13302 CG PRO 884 118.666 62.206 46.377 0.00 0.00  
ATOM 13303 HG2 PRO 884 119.075 61.573 47.165 0.00 0.00  
ATOM 13304 HG3 PRO 884 119.123 61.783 45.483 0.00 0.00  
ATOM 13305 CB PRO 884 119.046 63.675 46.591 0.00 0.00  
ATOM 13306 HB2 PRO 884 119.171 63.900 47.650 0.00 0.00  
ATOM 13307 HB3 PRO 884 119.858 64.018 45.951 0.00 0.00  
ATOM 13308 CA PRO 884 117.739 64.312 46.088 0.00 0.00

ATOM 13309 HA PRO 884 117.508 65.076 46.830 0.00 0.00  
ATOM 13310 C PRO 884 118.010 65.040 44.776 0.00 0.00  
ATOM 13311 O PRO 884 117.847 64.439 43.698 0.00 0.00  
ATOM 13312 N GLY 885 118.521 66.280 44.816 0.00 0.00  
ATOM 13313 H GLY 885 118.628 66.742 45.708 0.00 0.00  
ATOM 13314 CA GLY 885 118.796 67.089 43.704 0.00 0.00  
ATOM 13315 HA2 GLY 885 119.848 66.930 43.469 0.00 0.00  
ATOM 13316 HA3 GLY 885 118.109 66.694 42.955 0.00 0.00  
ATOM 13317 C GLY 885 118.518 68.572 43.972 0.00 0.00  
ATOM 13318 O GLY 885 118.541 69.060 45.084 0.00 0.00  
ATOM 13319 N GLN 886 118.529 69.375 42.908 0.00 0.00  
ATOM 13320 H GLN 886 118.625 68.913 42.015 0.00 0.00  
ATOM 13321 CA GLN 886 118.701 70.838 42.967 0.00 0.00  
ATOM 13322 HA GLN 886 118.698 71.205 43.994 0.00 0.00  
ATOM 13323 CB GLN 886 120.151 71.149 42.421 0.00 0.00  
ATOM 13324 HB2 GLN 886 120.902 70.468 42.821 0.00 0.00  
ATOM 13325 HB3 GLN 886 120.102 70.926 41.355 0.00 0.00  
ATOM 13326 CG GLN 886 120.607 72.548 42.591 0.00 0.00  
ATOM 13327 HG2 GLN 886 119.859 73.255 42.951 0.00 0.00  
ATOM 13328 HG3 GLN 886 121.335 72.604 43.400 0.00 0.00  
ATOM 13329 CD GLN 886 121.292 72.992 41.309 0.00 0.00  
ATOM 13330 OE1 GLN 886 120.701 73.628 40.424 0.00 0.00  
ATOM 13331 NE2 GLN 886 122.549 72.772 41.052 0.00 0.00  
ATOM 13332 1HE2 GLN 886 122.980 73.251 40.275 0.00 0.00  
ATOM 13333 2HE2 GLN 886 123.024 72.223 41.754 0.00 0.00  
ATOM 13334 C GLN 886 117.528 71.398 42.123 0.00 0.00

ATOM 13335 O GLN 886 117.186 70.886 41.071 0.00 0.00  
ATOM 13336 N ILE 887 116.885 72.475 42.586 0.00 0.00  
ATOM 13337 H ILE 887 117.243 72.880 43.439 0.00 0.00  
ATOM 13338 CA ILE 887 115.722 73.262 42.082 0.00 0.00  
ATOM 13339 HA ILE 887 115.431 72.843 41.119 0.00 0.00  
ATOM 13340 CB ILE 887 114.632 73.347 43.080 0.00 0.00  
ATOM 13341 HB ILE 887 114.963 73.753 44.035 0.00 0.00  
ATOM 13342 CG2 ILE 887 113.483 74.281 42.590 0.00 0.00  
ATOM 13343 1HG2 ILE 887 112.620 74.153 43.243 0.00 0.00  
ATOM 13344 2HG2 ILE 887 113.768 75.325 42.724 0.00 0.00  
ATOM 13345 3HG2 ILE 887 113.195 73.987 41.581 0.00 0.00  
ATOM 13346 CG1 ILE 887 114.028 71.936 43.501 0.00 0.00  
ATOM 13347 2HG1 ILE 887 114.815 71.505 44.120 0.00 0.00  
ATOM 13348 3HG1 ILE 887 113.175 72.249 44.102 0.00 0.00  
ATOM 13349 CD1 ILE 887 113.633 70.936 42.383 0.00 0.00  
ATOM 13350 1HD1 ILE 887 113.137 70.109 42.890 0.00 0.00  
ATOM 13351 2HD1 ILE 887 112.977 71.471 41.696 0.00 0.00  
ATOM 13352 3HD1 ILE 887 114.469 70.556 41.795 0.00 0.00  
ATOM 13353 C ILE 887 116.148 74.724 41.651 0.00 0.00  
ATOM 13354 O ILE 887 116.329 75.637 42.493 0.00 0.00  
ATOM 13355 N ALA 888 116.406 74.876 40.326 0.00 0.00  
ATOM 13356 H ALA 888 116.284 74.013 39.815 0.00 0.00  
ATOM 13357 CA ALA 888 116.704 76.158 39.630 0.00 0.00  
ATOM 13358 HA ALA 888 117.513 76.671 40.151 0.00 0.00  
ATOM 13359 CB ALA 888 117.172 75.842 38.172 0.00 0.00  
ATOM 13360 HB1 ALA 888 117.670 76.706 37.732 0.00 0.00

ATOM	13361	HB2	ALA	888	117.890	75.023	38.189	0.00	0.00
ATOM	13362	HB3	ALA	888	116.415	75.555	37.441	0.00	0.00
ATOM	13363	C	ALA	888	115.445	77.074	39.557	0.00	0.00
ATOM	13364	O	ALA	888	114.438	76.746	38.906	0.00	0.00
ATOM	13365	N	LEU	889	115.627	78.250	40.114	0.00	0.00
ATOM	13366	H	LEU	889	116.533	78.559	40.436	0.00	0.00
ATOM	13367	CA	LEU	889	114.510	79.202	40.313	0.00	0.00
ATOM	13368	HA	LEU	889	113.607	78.602	40.199	0.00	0.00
ATOM	13369	CB	LEU	889	114.537	79.924	41.698	0.00	0.00
ATOM	13370	HB2	LEU	889	115.414	80.571	41.684	0.00	0.00
ATOM	13371	HB3	LEU	889	113.660	80.547	41.873	0.00	0.00
ATOM	13372	CG	LEU	889	114.772	79.017	42.876	0.00	0.00
ATOM	13373	HG	LEU	889	115.614	78.386	42.592	0.00	0.00
ATOM	13374	CD1	LEU	889	115.130	79.806	44.161	0.00	0.00
ATOM	13375	1HD1	LEU	889	116.198	80.023	44.202	0.00	0.00
ATOM	13376	2HD1	LEU	889	114.710	80.812	44.151	0.00	0.00
ATOM	13377	3HD1	LEU	889	114.914	79.307	45.106	0.00	0.00
ATOM	13378	CD2	LEU	889	113.618	78.143	43.203	0.00	0.00
ATOM	13379	1HD2	LEU	889	113.867	77.574	44.098	0.00	0.00
ATOM	13380	2HD2	LEU	889	112.828	78.774	43.609	0.00	0.00
ATOM	13381	3HD2	LEU	889	113.251	77.562	42.356	0.00	0.00
ATOM	13382	C	LEU	889	114.334	80.189	39.192	0.00	0.00
ATOM	13383	O	LEU	889	115.370	80.663	38.765	0.00	0.00
ATOM	13384	N	ASN	890	113.113	80.569	38.854	0.00	0.00
ATOM	13385	H	ASN	890	112.422	79.982	39.301	0.00	0.00
ATOM	13386	CA	ASN	890	112.672	81.598	37.950	0.00	0.00

ATOM 13387 HA ASN 890 111.587 81.516 37.888 0.00 0.00  
ATOM 13388 CB ASN 890 112.955 82.986 38.665 0.00 0.00  
ATOM 13389 HB2 ASN 890 114.023 83.204 38.672 0.00 0.00  
ATOM 13390 HB3 ASN 890 112.478 83.782 38.093 0.00 0.00  
ATOM 13391 CG ASN 890 112.674 83.064 40.103 0.00 0.00  
ATOM 13392 OD1 ASN 890 111.597 82.864 40.574 0.00 0.00  
ATOM 13393 ND2 ASN 890 113.667 83.312 40.950 0.00 0.00  
ATOM 13394 1HD2 ASN 890 113.348 83.376 41.907 0.00 0.00  
ATOM 13395 2HD2 ASN 890 114.558 83.671 40.639 0.00 0.00  
ATOM 13396 C ASN 890 113.283 81.704 36.517 0.00 0.00  
ATOM 13397 O ASN 890 113.502 82.811 35.952 0.00 0.00  
ATOM 13398 N THR 891 113.537 80.514 35.937 0.00 0.00  
ATOM 13399 H THR 891 113.258 79.611 36.293 0.00 0.00  
ATOM 13400 CA THR 891 114.114 80.487 34.608 0.00 0.00  
ATOM 13401 HA THR 891 115.070 80.999 34.720 0.00 0.00  
ATOM 13402 CB THR 891 114.397 79.018 34.164 0.00 0.00  
ATOM 13403 HB THR 891 114.796 79.082 33.152 0.00 0.00  
ATOM 13404 CG2 THR 891 115.356 78.424 35.107 0.00 0.00  
ATOM 13405 1HG2 THR 891 116.328 78.899 34.975 0.00 0.00  
ATOM 13406 2HG2 THR 891 115.079 78.547 36.154 0.00 0.00  
ATOM 13407 3HG2 THR 891 115.276 77.345 34.979 0.00 0.00  
ATOM 13408 OG1 THR 891 113.202 78.268 34.077 0.00 0.00  
ATOM 13409 HG1 THR 891 112.720 78.476 34.881 0.00 0.00  
ATOM 13410 C THR 891 113.310 81.249 33.514 0.00 0.00  
ATOM 13411 O THR 891 112.096 81.491 33.704 0.00 0.00  
ATOM 13412 N GLY 892 113.923 81.596 32.449 0.00 0.00

ATOM 13413 H GLY 892 114.892 81.317 32.387 0.00 0.00  
ATOM 13414 CA GLY 892 113.365 82.136 31.259 0.00 0.00  
ATOM 13415 HA2 GLY 892 114.173 82.227 30.533 0.00 0.00  
ATOM 13416 HA3 GLY 892 112.544 81.538 30.865 0.00 0.00  
ATOM 13417 C GLY 892 112.830 83.634 31.336 0.00 0.00  
ATOM 13418 O GLY 892 111.933 84.078 30.562 0.00 0.00  
ATOM 13419 N ARG 893 113.365 84.311 32.328 0.00 0.00  
ATOM 13420 H ARG 893 114.044 83.761 32.834 0.00 0.00  
ATOM 13421 CA ARG 893 113.147 85.793 32.447 0.00 0.00  
ATOM 13422 HA ARG 893 112.773 86.104 31.472 0.00 0.00  
ATOM 13423 CB ARG 893 112.159 86.002 33.585 0.00 0.00  
ATOM 13424 HB2 ARG 893 112.452 85.507 34.511 0.00 0.00  
ATOM 13425 HB3 ARG 893 112.191 87.044 33.903 0.00 0.00  
ATOM 13426 CG ARG 893 110.688 85.670 33.333 0.00 0.00  
ATOM 13427 HG2 ARG 893 110.121 86.411 33.897 0.00 0.00  
ATOM 13428 HG3 ARG 893 110.371 85.833 32.303 0.00 0.00  
ATOM 13429 CD ARG 893 110.217 84.296 33.819 0.00 0.00  
ATOM 13430 HD2 ARG 893 109.217 84.086 33.440 0.00 0.00  
ATOM 13431 HD3 ARG 893 110.808 83.449 33.470 0.00 0.00  
ATOM 13432 NE ARG 893 109.939 84.251 35.312 0.00 0.00  
ATOM 13433 HE ARG 893 109.886 85.119 35.825 0.00 0.00  
ATOM 13434 CZ ARG 893 109.650 83.126 35.973 0.00 0.00  
ATOM 13435 NH1 ARG 893 109.797 81.957 35.434 0.00 0.00  
ATOM 13436 1HH1 ARG 893 109.235 81.248 35.885 0.00 0.00  
ATOM 13437 2HH1 ARG 893 110.225 81.741 34.545 0.00 0.00  
ATOM 13438 NH2 ARG 893 109.129 83.146 37.142 0.00 0.00



ATOM 13439 1HH2 ARG 893 108.878 82.239 37.510 0.00 0.00  
ATOM 13440 2HH2 ARG 893 109.050 84.002 37.672 0.00 0.00  
ATOM 13441 C ARG 893 114.448 86.549 32.628 0.00 0.00  
ATOM 13442 O ARG 893 115.389 85.961 33.155 0.00 0.00  
ATOM 13443 N ALA 894 114.554 87.817 32.242 0.00 0.00  
ATOM 13444 H ALA 894 113.718 88.244 31.871 0.00 0.00  
ATOM 13445 CA ALA 894 115.657 88.668 32.457 0.00 0.00  
ATOM 13446 HA ALA 894 116.561 88.171 32.103 0.00 0.00  
ATOM 13447 CB ALA 894 115.434 89.984 31.762 0.00 0.00  
ATOM 13448 HB1 ALA 894 115.292 89.851 30.689 0.00 0.00  
ATOM 13449 HB2 ALA 894 114.518 90.351 32.225 0.00 0.00  
ATOM 13450 HB3 ALA 894 116.270 90.660 31.939 0.00 0.00  
ATOM 13451 C ALA 894 116.049 88.951 33.934 0.00 0.00  
ATOM 13452 O ALA 894 115.233 89.297 34.821 0.00 0.00  
ATOM 13453 N THR 895 117.388 88.866 34.188 0.00 0.00  
ATOM 13454 H THR 895 118.050 88.535 33.501 0.00 0.00  
ATOM 13455 CA THR 895 117.952 89.319 35.471 0.00 0.00  
ATOM 13456 HA THR 895 117.205 89.520 36.240 0.00 0.00  
ATOM 13457 CB THR 895 118.760 88.122 35.990 0.00 0.00  
ATOM 13458 HB THR 895 119.410 88.362 36.832 0.00 0.00  
ATOM 13459 CG2 THR 895 117.743 87.041 36.474 0.00 0.00  
ATOM 13460 1HG2 THR 895 116.901 87.590 36.896 0.00 0.00  
ATOM 13461 2HG2 THR 895 117.405 86.530 35.573 0.00 0.00  
ATOM 13462 3HG2 THR 895 118.218 86.325 37.145 0.00 0.00  
ATOM 13463 OG1 THR 895 119.461 87.592 34.966 0.00 0.00  
ATOM 13464 HG1 THR 895 120.049 86.925 35.330 0.00 0.00

ATOM	13465	C	THR	895	118.860	90.580	35.402	0.00	0.00
ATOM	13466	O	THR	895	119.256	90.984	34.261	0.00	0.00
ATOM	13467	N	CYS	896	118.888	91.240	36.587	0.00	0.00
ATOM	13468	H	CYS	896	118.583	90.819	37.453	0.00	0.00
ATOM	13469	CA	CYS	896	119.530	92.512	36.790	0.00	0.00
ATOM	13470	HA	CYS	896	120.300	92.765	36.061	0.00	0.00
ATOM	13471	CB	CYS	896	118.424	93.653	36.667	0.00	0.00
ATOM	13472	HB2	CYS	896	118.300	93.885	35.609	0.00	0.00
ATOM	13473	HB3	CYS	896	117.517	93.217	37.085	0.00	0.00
ATOM	13474	SG	CYS	896	118.883	95.136	37.563	0.00	0.00
ATOM	13475	HG	CYS	896	117.914	96.034	37.367	0.00	0.00
ATOM	13476	C	CYS	896	120.134	92.574	38.200	0.00	0.00
ATOM	13477	O	CYS	896	119.563	92.079	39.165	0.00	0.00
ATOM	13478	N	ARG	897	121.240	93.335	38.448	0.00	0.00
ATOM	13479	H	ARG	897	121.727	93.792	37.691	0.00	0.00
ATOM	13480	CA	ARG	897	121.695	93.606	39.864	0.00	0.00
ATOM	13481	HA	ARG	897	120.901	93.310	40.550	0.00	0.00
ATOM	13482	CB	ARG	897	123.112	92.904	40.095	0.00	0.00
ATOM	13483	HB2	ARG	897	123.888	93.527	39.650	0.00	0.00
ATOM	13484	HB3	ARG	897	123.257	92.957	41.174	0.00	0.00
ATOM	13485	CG	ARG	897	123.275	91.479	39.643	0.00	0.00
ATOM	13486	HG2	ARG	897	122.874	91.239	38.658	0.00	0.00
ATOM	13487	HG3	ARG	897	122.687	90.814	40.276	0.00	0.00
ATOM	13488	CD	ARG	897	124.738	91.155	39.759	0.00	0.00
ATOM	13489	HD2	ARG	897	124.985	90.149	39.421	0.00	0.00
ATOM	13490	HD3	ARG	897	125.280	91.868	39.138	0.00	0.00

ATOM 13491 NE ARG 897 125.230 91.212 41.133 0.00 0.00  
ATOM 13492 HE ARG 897 125.978 91.857 41.347 0.00 0.00  
ATOM 13493 CZ ARG 897 125.012 90.429 42.149 0.00 0.00  
ATOM 13494 NH1 ARG 897 124.378 89.290 42.093 0.00 0.00  
ATOM 13495 1HH1 ARG 897 124.362 88.690 42.905 0.00 0.00  
ATOM 13496 2HH1 ARG 897 123.963 89.010 41.215 0.00 0.00  
ATOM 13497 NH2 ARG 897 125.450 90.812 43.310 0.00 0.00  
ATOM 13498 1HH2 ARG 897 125.048 90.327 44.100 0.00 0.00  
ATOM 13499 2HH2 ARG 897 126.081 91.599 43.360 0.00 0.00  
ATOM 13500 C ARG 897 121.882 95.095 40.155 0.00 0.00  
ATOM 13501 O ARG 897 122.364 95.861 39.304 0.00 0.00  
ATOM 13502 N VAL 898 121.639 95.517 41.422 0.00 0.00  
ATOM 13503 H VAL 898 121.329 94.893 42.154 0.00 0.00  
ATOM 13504 CA VAL 898 121.848 96.897 41.902 0.00 0.00  
ATOM 13505 HA VAL 898 122.540 97.382 41.213 0.00 0.00  
ATOM 13506 CB VAL 898 120.549 97.732 41.897 0.00 0.00  
ATOM 13507 HB VAL 898 120.800 98.723 42.274 0.00 0.00  
ATOM 13508 CG1 VAL 898 119.760 97.866 40.547 0.00 0.00  
ATOM 13509 1HG1 VAL 898 118.792 98.366 40.543 0.00 0.00  
ATOM 13510 2HG1 VAL 898 120.401 98.472 39.905 0.00 0.00  
ATOM 13511 3HG1 VAL 898 119.530 96.919 40.059 0.00 0.00  
ATOM 13512 CG2 VAL 898 119.539 97.214 42.885 0.00 0.00  
ATOM 13513 1HG2 VAL 898 119.973 96.948 43.848 0.00 0.00  
ATOM 13514 2HG2 VAL 898 118.836 98.019 43.101 0.00 0.00  
ATOM 13515 3HG2 VAL 898 119.111 96.284 42.511 0.00 0.00  
ATOM 13516 C VAL 898 122.541 97.074 43.193 0.00 0.00

ATOM 13517 O VAL 898 122.326 96.223 44.055 0.00 0.00  
ATOM 13518 N VAL 899 123.318 98.155 43.364 0.00 0.00  
ATOM 13519 H VAL 899 123.305 98.813 42.597 0.00 0.00  
ATOM 13520 CA VAL 899 123.926 98.538 44.672 0.00 0.00  
ATOM 13521 HA VAL 899 124.082 97.572 45.152 0.00 0.00  
ATOM 13522 CB VAL 899 125.301 99.221 44.531 0.00 0.00  
ATOM 13523 HB VAL 899 125.126 100.056 43.851 0.00 0.00  
ATOM 13524 CG1 VAL 899 125.941 99.710 45.832 0.00 0.00  
ATOM 13525 1HG1 VAL 899 126.764 100.368 45.553 0.00 0.00  
ATOM 13526 2HG1 VAL 899 125.273 100.376 46.378 0.00 0.00  
ATOM 13527 3HG1 VAL 899 126.365 98.907 46.435 0.00 0.00  
ATOM 13528 CG2 VAL 899 126.264 98.209 43.960 0.00 0.00  
ATOM 13529 1HG2 VAL 899 127.333 98.424 43.944 0.00 0.00  
ATOM 13530 2HG2 VAL 899 126.209 97.247 44.470 0.00 0.00  
ATOM 13531 3HG2 VAL 899 125.982 97.939 42.942 0.00 0.00  
ATOM 13532 C VAL 899 123.041 99.401 45.538 0.00 0.00  
ATOM 13533 O VAL 899 122.569 100.407 45.036 0.00 0.00  
ATOM 13534 N VAL 900 122.717 98.972 46.797 0.00 0.00  
ATOM 13535 H VAL 900 123.230 98.173 47.143 0.00 0.00  
ATOM 13536 CA VAL 900 121.694 99.527 47.632 0.00 0.00  
ATOM 13537 HA VAL 900 121.450 100.522 47.260 0.00 0.00  
ATOM 13538 CB VAL 900 120.400 98.690 47.409 0.00 0.00  
ATOM 13539 HB VAL 900 120.173 98.768 46.346 0.00 0.00  
ATOM 13540 CG1 VAL 900 120.618 97.157 47.673 0.00 0.00  
ATOM 13541 1HG1 VAL 900 121.413 96.829 47.003 0.00 0.00  
ATOM 13542 2HG1 VAL 900 120.814 97.139 48.745 0.00 0.00

ATOM	13543	3HG1	VAL	900	119.776	96.466	47.673	0.00	0.00
ATOM	13544	CG2	VAL	900	119.236	99.272	48.199	0.00	0.00
ATOM	13545	1HG2	VAL	900	119.482	99.193	49.258	0.00	0.00
ATOM	13546	2HG2	VAL	900	118.926	100.287	47.950	0.00	0.00
ATOM	13547	3HG2	VAL	900	118.492	98.489	48.057	0.00	0.00
ATOM	13548	C	VAL	900	122.150	99.689	49.062	0.00	0.00
ATOM	13549	O	VAL	900	122.631	98.766	49.676	0.00	0.00
ATOM	13550	N	GLU	901	121.840	100.870	49.572	0.00	0.00
ATOM	13551	H	GLU	901	121.335	101.547	49.020	0.00	0.00
ATOM	13552	CA	GLU	901	122.151	101.230	50.966	0.00	0.00
ATOM	13553	HA	GLU	901	122.442	100.297	51.448	0.00	0.00
ATOM	13554	CB	GLU	901	123.226	102.373	51.072	0.00	0.00
ATOM	13555	HB2	GLU	901	123.973	102.236	51.855	0.00	0.00
ATOM	13556	HB3	GLU	901	123.729	102.453	50.109	0.00	0.00
ATOM	13557	CG	GLU	901	122.555	103.822	51.181	0.00	0.00
ATOM	13558	HG2	GLU	901	121.831	103.935	50.375	0.00	0.00
ATOM	13559	HG3	GLU	901	122.031	103.917	52.132	0.00	0.00
ATOM	13560	CD	GLU	901	123.718	104.830	51.032	0.00	0.00
ATOM	13561	OE1	GLU	901	123.782	105.465	49.928	0.00	0.00
ATOM	13562	OE2	GLU	901	124.486	105.014	51.974	0.00	0.00
ATOM	13563	C	GLU	901	120.815	101.553	51.733	0.00	0.00
ATOM	13564	O	GLU	901	119.871	102.054	51.080	0.00	0.00
ATOM	13565	N	ASN	902	120.759	101.388	53.058	0.00	0.00
ATOM	13566	H	ASN	902	121.642	101.144	53.483	0.00	0.00
ATOM	13567	CA	ASN	902	119.786	102.052	53.905	0.00	0.00
ATOM	13568	HA	ASN	902	118.924	102.331	53.298	0.00	0.00

ATOM 13569 CB ASN 902 119.260 101.075 55.000 0.00 0.00  
ATOM 13570 HB2 ASN 902 118.977 100.102 54.597 0.00 0.00  
ATOM 13571 HB3 ASN 902 120.041 101.012 55.758 0.00 0.00  
ATOM 13572 CG ASN 902 118.036 101.599 55.723 0.00 0.00  
ATOM 13573 OD1 ASN 902 117.423 102.575 55.343 0.00 0.00  
ATOM 13574 ND2 ASN 902 117.599 100.921 56.760 0.00 0.00  
ATOM 13575 1HD2 ASN 902 116.753 101.160 57.258 0.00 0.00  
ATOM 13576 2HD2 ASN 902 118.117 100.163 57.181 0.00 0.00  
ATOM 13577 C ASN 902 120.345 103.419 54.294 0.00 0.00  
ATOM 13578 O ASN 902 121.353 103.512 55.013 0.00 0.00  
ATOM 13579 N HID 903 119.696 104.489 53.786 0.00 0.00  
ATOM 13580 H HID 903 118.914 104.242 53.198 0.00 0.00  
ATOM 13581 CA HID 903 120.026 105.850 54.059 0.00 0.00  
ATOM 13582 HA HID 903 121.082 105.875 54.327 0.00 0.00  
ATOM 13583 CB HID 903 119.856 106.532 52.686 0.00 0.00  
ATOM 13584 HB2 HID 903 120.519 106.057 51.964 0.00 0.00  
ATOM 13585 HB3 HID 903 118.859 106.287 52.321 0.00 0.00  
ATOM 13586 CG HID 903 120.257 107.933 52.587 0.00 0.00  
ATOM 13587 ND1 HID 903 121.456 108.545 52.892 0.00 0.00  
ATOM 13588 HD1 HID 903 122.214 108.142 53.425 0.00 0.00  
ATOM 13589 CE1 HID 903 121.251 109.894 52.744 0.00 0.00  
ATOM 13590 HE1 HID 903 121.941 110.678 53.019 0.00 0.00  
ATOM 13591 NE2 HID 903 120.022 110.159 52.338 0.00 0.00  
ATOM 13592 CD2 HID 903 119.406 108.946 52.275 0.00 0.00  
ATOM 13593 HD2 HID 903 118.368 108.821 52.003 0.00 0.00  
ATOM 13594 C HID 903 119.099 106.410 55.106 0.00 0.00

ATOM 13595 O HID 903 119.465 107.342 55.871 0.00 0.00  
ATOM 13596 N GLY 904 117.931 105.787 55.384 0.00 0.00  
ATOM 13597 H GLY 904 117.694 104.910 54.941 0.00 0.00  
ATOM 13598 CA GLY 904 117.108 106.151 56.560 0.00 0.00  
ATOM 13599 HA2 GLY 904 116.932 107.227 56.568 0.00 0.00  
ATOM 13600 HA3 GLY 904 116.155 105.628 56.478 0.00 0.00  
ATOM 13601 C GLY 904 117.677 105.729 57.925 0.00 0.00  
ATOM 13602 O GLY 904 118.691 105.088 57.950 0.00 0.00  
ATOM 13603 N ASP 905 116.895 106.019 58.947 0.00 0.00  
ATOM 13604 H ASP 905 116.099 106.635 58.860 0.00 0.00  
ATOM 13605 CA ASP 905 117.427 105.950 60.322 0.00 0.00  
ATOM 13606 HA ASP 905 118.506 106.099 60.279 0.00 0.00  
ATOM 13607 CB ASP 905 116.994 107.233 61.007 0.00 0.00  
ATOM 13608 HB2 ASP 905 117.470 107.403 61.973 0.00 0.00  
ATOM 13609 HB3 ASP 905 117.259 108.097 60.399 0.00 0.00  
ATOM 13610 CG ASP 905 115.475 107.257 61.351 0.00 0.00  
ATOM 13611 OD1 ASP 905 114.719 106.966 60.366 0.00 0.00  
ATOM 13612 OD2 ASP 905 115.106 107.677 62.466 0.00 0.00  
ATOM 13613 C ASP 905 116.899 104.666 61.118 0.00 0.00  
ATOM 13614 O ASP 905 117.039 104.650 62.327 0.00 0.00  
ATOM 13615 N ARG 906 116.198 103.739 60.439 0.00 0.00  
ATOM 13616 H ARG 906 116.237 103.881 59.440 0.00 0.00  
ATOM 13617 CA ARG 906 115.379 102.592 61.065 0.00 0.00  
ATOM 13618 HA ARG 906 115.732 102.485 62.091 0.00 0.00  
ATOM 13619 CB ARG 906 113.916 103.088 61.108 0.00 0.00  
ATOM 13620 HB2 ARG 906 113.755 103.857 60.353 0.00 0.00

ATOM	13621	HB3	ARG	906	113.136	102.338	60.971	0.00	0.00
ATOM	13622	CG	ARG	906	113.635	103.850	62.421	0.00	0.00
ATOM	13623	HG2	ARG	906	113.655	103.146	63.253	0.00	0.00
ATOM	13624	HG3	ARG	906	114.415	104.580	62.637	0.00	0.00
ATOM	13625	CD	ARG	906	112.300	104.610	62.363	0.00	0.00
ATOM	13626	HD2	ARG	906	111.415	104.053	62.053	0.00	0.00
ATOM	13627	HD3	ARG	906	112.116	104.938	63.387	0.00	0.00
ATOM	13628	NE	ARG	906	112.401	105.765	61.487	0.00	0.00
ATOM	13629	HE	ARG	906	113.357	106.011	61.272	0.00	0.00
ATOM	13630	CZ	ARG	906	111.465	106.486	61.113	0.00	0.00
ATOM	13631	NH1	ARG	906	110.194	106.257	61.299	0.00	0.00
ATOM	13632	1HH1	ARG	906	109.485	106.861	60.909	0.00	0.00
ATOM	13633	2HH1	ARG	906	109.938	105.406	61.779	0.00	0.00
ATOM	13634	NH2	ARG	906	111.837	107.549	60.412	0.00	0.00
ATOM	13635	1HH2	ARG	906	111.048	108.090	60.087	0.00	0.00
ATOM	13636	2HH2	ARG	906	112.800	107.737	60.175	0.00	0.00
ATOM	13637	C	ARG	906	115.601	101.379	60.192	0.00	0.00
ATOM	13638	O	ARG	906	116.061	101.438	59.012	0.00	0.00
ATOM	13639	N	PRO	907	115.290	100.228	60.733	0.00	0.00
ATOM	13640	CD	PRO	907	114.736	100.107	62.030	0.00	0.00
ATOM	13641	HD2	PRO	907	115.382	100.504	62.813	0.00	0.00
ATOM	13642	HD3	PRO	907	113.805	100.660	62.156	0.00	0.00
ATOM	13643	CG	PRO	907	114.460	98.661	62.337	0.00	0.00
ATOM	13644	HG2	PRO	907	114.871	98.321	63.288	0.00	0.00
ATOM	13645	HG3	PRO	907	113.431	98.354	62.153	0.00	0.00
ATOM	13646	CB	PRO	907	115.407	97.990	61.310	0.00	0.00



ATOM	13647	HB2 PRO	907	116.410	97.944	61.734	0.00	0.00
ATOM	13648	HB3 PRO	907	115.161	96.970	61.013	0.00	0.00
ATOM	13649	CA PRO	907	115.340	98.895	60.080	0.00	0.00
ATOM	13650	HA PRO	907	116.340	98.896	59.646	0.00	0.00
ATOM	13651	C PRO	907	114.278	98.545	59.068	0.00	0.00
ATOM	13652	O PRO	907	113.125	98.994	59.077	0.00	0.00
ATOM	13653	N ILE	908	114.755	97.696	58.128	0.00	0.00
ATOM	13654	H ILE	908	115.756	97.608	58.233	0.00	0.00
ATOM	13655	CA ILE	908	114.030	97.276	56.926	0.00	0.00
ATOM	13656	HA ILE	908	112.973	97.493	57.076	0.00	0.00
ATOM	13657	CB ILE	908	114.508	98.200	55.774	0.00	0.00
ATOM	13658	HB ILE	908	115.580	98.140	55.590	0.00	0.00
ATOM	13659	CG2 ILE	908	113.819	97.729	54.442	0.00	0.00
ATOM	13660	1HG2 ILE	908	114.283	96.786	54.152	0.00	0.00
ATOM	13661	2HG2 ILE	908	112.765	97.615	54.694	0.00	0.00
ATOM	13662	3HG2 ILE	908	114.221	98.329	53.626	0.00	0.00
ATOM	13663	CG1 ILE	908	114.096	99.659	56.050	0.00	0.00
ATOM	13664	2HG1 ILE	908	113.023	99.598	56.234	0.00	0.00
ATOM	13665	3HG1 ILE	908	114.580	100.131	56.905	0.00	0.00
ATOM	13666	CD1 ILE	908	114.555	100.657	54.953	0.00	0.00
ATOM	13667	1HD1 ILE	908	114.084	100.467	53.989	0.00	0.00
ATOM	13668	2HD1 ILE	908	114.151	101.594	55.336	0.00	0.00
ATOM	13669	3HD1 ILE	908	115.624	100.508	54.801	0.00	0.00
ATOM	13670	C ILE	908	114.179	95.795	56.546	0.00	0.00
ATOM	13671	O ILE	908	115.292	95.281	56.463	0.00	0.00
ATOM	13672	N GLN	909	113.042	95.133	56.247	0.00	0.00

ATOM 13673 H GLN 909 112.118 95.508 56.407 0.00 0.00  
ATOM 13674 CA GLN 909 113.124 93.773 55.655 0.00 0.00  
ATOM 13675 HA GLN 909 114.113 93.672 55.209 0.00 0.00  
ATOM 13676 CB GLN 909 112.974 92.629 56.672 0.00 0.00  
ATOM 13677 HB2 GLN 909 113.459 92.929 57.601 0.00 0.00  
ATOM 13678 HB3 GLN 909 111.991 92.261 56.965 0.00 0.00  
ATOM 13679 CG GLN 909 113.799 91.365 56.265 0.00 0.00  
ATOM 13680 HG2 GLN 909 113.274 90.948 55.405 0.00 0.00  
ATOM 13681 HG3 GLN 909 114.786 91.731 55.982 0.00 0.00  
ATOM 13682 CD GLN 909 114.000 90.314 57.343 0.00 0.00  
ATOM 13683 OE1 GLN 909 113.630 90.382 58.539 0.00 0.00  
ATOM 13684 NE2 GLN 909 114.820 89.285 57.156 0.00 0.00  
ATOM 13685 1HE2 GLN 909 114.940 88.728 57.990 0.00 0.00  
ATOM 13686 2HE2 GLN 909 115.328 89.171 56.290 0.00 0.00  
ATOM 13687 C GLN 909 112.188 93.644 54.473 0.00 0.00  
ATOM 13688 O GLN 909 111.045 94.054 54.660 0.00 0.00  
ATOM 13689 N VAL 910 112.588 93.041 53.356 0.00 0.00  
ATOM 13690 H VAL 910 113.523 92.659 53.342 0.00 0.00  
ATOM 13691 CA VAL 910 111.926 93.172 52.098 0.00 0.00  
ATOM 13692 HA VAL 910 110.915 93.528 52.295 0.00 0.00  
ATOM 13693 CB VAL 910 112.671 94.205 51.170 0.00 0.00  
ATOM 13694 HB VAL 910 113.722 93.961 51.018 0.00 0.00  
ATOM 13695 CG1 VAL 910 111.954 94.301 49.814 0.00 0.00  
ATOM 13696 1HG1 VAL 910 112.492 95.014 49.189 0.00 0.00  
ATOM 13697 2HG1 VAL 910 112.171 93.354 49.320 0.00 0.00  
ATOM 13698 3HG1 VAL 910 110.906 94.577 49.924 0.00 0.00

ATOM 13699 CG2 VAL 910 112.492 95.594 51.691 0.00 0.00  
ATOM 13700 1HG2 VAL 910 113.099 95.775 52.578 0.00 0.00  
ATOM 13701 2HG2 VAL 910 112.898 96.320 50.987 0.00 0.00  
ATOM 13702 3HG2 VAL 910 111.464 95.955 51.685 0.00 0.00  
ATOM 13703 C VAL 910 111.851 91.896 51.388 0.00 0.00  
ATOM 13704 O VAL 910 112.898 91.338 51.089 0.00 0.00  
ATOM 13705 N GLY 911 110.647 91.358 51.205 0.00 0.00  
ATOM 13706 H GLY 911 109.922 91.913 51.636 0.00 0.00  
ATOM 13707 CA GLY 911 110.424 89.999 50.769 0.00 0.00  
ATOM 13708 HA2 GLY 911 111.097 89.307 51.275 0.00 0.00  
ATOM 13709 HA3 GLY 911 109.391 89.699 50.943 0.00 0.00  
ATOM 13710 C GLY 911 110.570 89.836 49.244 0.00 0.00  
ATOM 13711 O GLY 911 110.595 90.819 48.466 0.00 0.00  
ATOM 13712 N SER 912 110.750 88.572 48.867 0.00 0.00  
ATOM 13713 H SER 912 110.686 87.812 49.530 0.00 0.00  
ATOM 13714 CA SER 912 111.100 88.037 47.489 0.00 0.00  
ATOM 13715 HA SER 912 112.164 88.183 47.301 0.00 0.00  
ATOM 13716 CB SER 912 110.973 86.480 47.373 0.00 0.00  
ATOM 13717 HB2 SER 912 111.162 86.177 46.343 0.00 0.00  
ATOM 13718 HB3 SER 912 111.720 85.974 47.985 0.00 0.00  
ATOM 13719 OG SER 912 109.716 86.083 47.677 0.00 0.00  
ATOM 13720 HG SER 912 109.084 86.471 47.068 0.00 0.00  
ATOM 13721 C SER 912 110.312 88.749 46.307 0.00 0.00  
ATOM 13722 O SER 912 110.851 89.266 45.301 0.00 0.00  
ATOM 13723 N HIE 913 109.052 88.987 46.590 0.00 0.00  
ATOM 13724 H HIE 913 108.739 88.744 47.518 0.00 0.00

ATOM	13725	CA	HIE	913	108.070	89.402	45.552	0.00	0.00
ATOM	13726	HA	HIE	913	108.594	89.265	44.606	0.00	0.00
ATOM	13727	CB	HIE	913	106.845	88.424	45.565	0.00	0.00
ATOM	13728	HB2	HIE	913	106.493	88.274	46.586	0.00	0.00
ATOM	13729	HB3	HIE	913	106.019	88.906	45.042	0.00	0.00
ATOM	13730	CG	HIE	913	107.104	87.087	44.855	0.00	0.00
ATOM	13731	ND1	HIE	913	108.057	86.103	45.186	0.00	0.00
ATOM	13732	CE1	HIE	913	107.930	85.140	44.283	0.00	0.00
ATOM	13733	HE1	HIE	913	108.575	84.275	44.262	0.00	0.00
ATOM	13734	NE2	HIE	913	107.143	85.571	43.273	0.00	0.00
ATOM	13735	HE2	HIE	913	106.993	85.064	42.412	0.00	0.00
ATOM	13736	CD2	HIE	913	106.640	86.813	43.569	0.00	0.00
ATOM	13737	HD2	HIE	913	106.015	87.419	42.929	0.00	0.00
ATOM	13738	C	HIE	913	107.751	90.938	45.723	0.00	0.00
ATOM	13739	O	HIE	913	106.652	91.412	45.368	0.00	0.00
ATOM	13740	N	TYR	914	108.612	91.768	46.316	0.00	0.00
ATOM	13741	H	TYR	914	109.570	91.484	46.458	0.00	0.00
ATOM	13742	CA	TYR	914	108.454	93.225	46.260	0.00	0.00
ATOM	13743	HA	TYR	914	107.367	93.305	46.247	0.00	0.00
ATOM	13744	CB	TYR	914	108.917	94.012	47.475	0.00	0.00
ATOM	13745	HB2	TYR	914	108.869	93.357	48.345	0.00	0.00
ATOM	13746	HB3	TYR	914	109.954	94.319	47.338	0.00	0.00
ATOM	13747	CG	TYR	914	107.959	95.139	47.810	0.00	0.00
ATOM	13748	CD1	TYR	914	106.828	94.903	48.657	0.00	0.00
ATOM	13749	HD1	TYR	914	106.825	93.980	49.218	0.00	0.00
ATOM	13750	CE1	TYR	914	105.786	95.840	48.815	0.00	0.00

ATOM 13751 HE1 TYR 914 105.055 95.522 49.543 0.00 0.00  
ATOM 13752 CZ TYR 914 105.918 97.099 48.087 0.00 0.00  
ATOM 13753 OH TYR 914 104.946 98.033 48.101 0.00 0.00  
ATOM 13754 HH TYR 914 104.323 97.853 48.809 0.00 0.00  
ATOM 13755 CE2 TYR 914 107.016 97.265 47.190 0.00 0.00  
ATOM 13756 HE2 TYR 914 106.977 98.221 46.688 0.00 0.00  
ATOM 13757 CD2 TYR 914 108.013 96.328 47.038 0.00 0.00  
ATOM 13758 HD2 TYR 914 108.830 96.474 46.347 0.00 0.00  
ATOM 13759 C TYR 914 109.092 93.851 45.012 0.00 0.00  
ATOM 13760 O TYR 914 110.294 93.513 44.700 0.00 0.00  
ATOM 13761 N HID 915 108.342 94.650 44.245 0.00 0.00  
ATOM 13762 H HID 915 107.364 94.805 44.445 0.00 0.00  
ATOM 13763 CA HID 915 108.838 95.385 43.028 0.00 0.00  
ATOM 13764 HA HID 915 109.123 94.757 42.184 0.00 0.00  
ATOM 13765 CB HID 915 107.581 96.276 42.669 0.00 0.00  
ATOM 13766 HB2 HID 915 106.700 95.646 42.551 0.00 0.00  
ATOM 13767 HB3 HID 915 107.518 96.961 43.515 0.00 0.00  
ATOM 13768 CG HID 915 107.717 97.105 41.423 0.00 0.00  
ATOM 13769 ND1 HID 915 106.999 98.272 41.155 0.00 0.00  
ATOM 13770 HD1 HID 915 106.200 98.564 41.699 0.00 0.00  
ATOM 13771 CE1 HID 915 107.483 98.940 40.062 0.00 0.00  
ATOM 13772 HE1 HID 915 106.819 99.579 39.500 0.00 0.00  
ATOM 13773 NE2 HID 915 108.402 98.132 39.523 0.00 0.00  
ATOM 13774 CD2 HID 915 108.552 97.017 40.355 0.00 0.00  
ATOM 13775 HD2 HID 915 109.299 96.254 40.194 0.00 0.00  
ATOM 13776 C HID 915 110.020 96.203 43.432 0.00 0.00

ATOM	13777	O	HID	915	109.814	97.217	44.073	0.00	0.00
ATOM	13778	N	PHE	916	111.267	95.800	43.135	0.00	0.00
ATOM	13779	H	PHE	916	111.430	94.925	42.657	0.00	0.00
ATOM	13780	CA	PHE	916	112.459	96.418	43.715	0.00	0.00
ATOM	13781	HA	PHE	916	112.211	96.450	44.776	0.00	0.00
ATOM	13782	CB	PHE	916	113.744	95.630	43.678	0.00	0.00
ATOM	13783	HB2	PHE	916	114.237	95.763	42.715	0.00	0.00
ATOM	13784	HB3	PHE	916	113.430	94.587	43.663	0.00	0.00
ATOM	13785	CG	PHE	916	114.720	95.854	44.784	0.00	0.00
ATOM	13786	CD1	PHE	916	114.458	95.302	46.075	0.00	0.00
ATOM	13787	HD1	PHE	916	113.575	94.693	46.203	0.00	0.00
ATOM	13788	CE1	PHE	916	115.322	95.458	47.182	0.00	0.00
ATOM	13789	HE1	PHE	916	115.000	95.241	48.190	0.00	0.00
ATOM	13790	CZ	PHE	916	116.549	96.146	47.004	0.00	0.00
ATOM	13791	HZ	PHE	916	117.247	96.279	47.817	0.00	0.00
ATOM	13792	CE2	PHE	916	116.767	96.689	45.741	0.00	0.00
ATOM	13793	HE2	PHE	916	117.563	97.411	45.634	0.00	0.00
ATOM	13794	CD2	PHE	916	115.915	96.537	44.647	0.00	0.00
ATOM	13795	HD2	PHE	916	116.141	97.152	43.789	0.00	0.00
ATOM	13796	C	PHE	916	112.523	97.977	43.463	0.00	0.00
ATOM	13797	O	PHE	916	113.001	98.742	44.306	0.00	0.00
ATOM	13798	N	ALA	917	111.893	98.506	42.396	0.00	0.00
ATOM	13799	H	ALA	917	111.722	97.869	41.631	0.00	0.00
ATOM	13800	CA	ALA	917	111.722	99.909	42.076	0.00	0.00
ATOM	13801	HA	ALA	917	112.636	100.493	41.968	0.00	0.00
ATOM	13802	CB	ALA	917	110.995	100.034	40.768	0.00	0.00

ATOM	13803	HB1	ALA	917	110.623	101.040	40.569	0.00	0.00
ATOM	13804	HB2	ALA	917	111.593	99.836	39.878	0.00	0.00
ATOM	13805	HB3	ALA	917	110.132	99.371	40.833	0.00	0.00
ATOM	13806	C	ALA	917	110.816	100.621	43.115	0.00	0.00
ATOM	13807	O	ALA	917	111.088	101.760	43.302	0.00	0.00
ATOM	13808	N	GLU	918	109.921	99.926	43.844	0.00	0.00
ATOM	13809	H	GLU	918	109.729	99.001	43.487	0.00	0.00
ATOM	13810	CA	GLU	918	109.034	100.591	44.816	0.00	0.00
ATOM	13811	HA	GLU	918	109.329	101.632	44.954	0.00	0.00
ATOM	13812	CB	GLU	918	107.632	100.517	44.278	0.00	0.00
ATOM	13813	HB2	GLU	918	107.389	99.461	44.157	0.00	0.00
ATOM	13814	HB3	GLU	918	106.902	100.954	44.958	0.00	0.00
ATOM	13815	CG	GLU	918	107.560	101.338	42.990	0.00	0.00
ATOM	13816	HG2	GLU	918	107.941	102.324	43.258	0.00	0.00
ATOM	13817	HG3	GLU	918	108.171	100.885	42.210	0.00	0.00
ATOM	13818	CD	GLU	918	106.128	101.349	42.376	0.00	0.00
ATOM	13819	OE1	GLU	918	105.986	101.501	41.086	0.00	0.00
ATOM	13820	OE2	GLU	918	105.099	101.148	43.101	0.00	0.00
ATOM	13821	C	GLU	918	109.110	100.055	46.315	0.00	0.00
ATOM	13822	O	GLU	918	108.191	100.200	47.062	0.00	0.00
ATOM	13823	N	VAL	919	110.229	99.367	46.672	0.00	0.00
ATOM	13824	H	VAL	919	110.785	98.866	45.993	0.00	0.00
ATOM	13825	CA	VAL	919	110.626	99.167	48.111	0.00	0.00
ATOM	13826	HA	VAL	919	109.781	98.706	48.624	0.00	0.00
ATOM	13827	CB	VAL	919	111.806	98.180	48.131	0.00	0.00
ATOM	13828	HB	VAL	919	112.056	97.953	49.167	0.00	0.00

ATOM 13829 CG1 VAL 919 111.449 96.824 47.457 0.00 0.00  
ATOM 13830 1HG1 VAL 919 111.088 97.047 46.453 0.00 0.00  
ATOM 13831 2HG1 VAL 919 112.299 96.142 47.443 0.00 0.00  
ATOM 13832 3HG1 VAL 919 110.611 96.324 47.942 0.00 0.00  
ATOM 13833 CG2 VAL 919 113.024 98.907 47.442 0.00 0.00  
ATOM 13834 1HG2 VAL 919 113.800 98.146 47.360 0.00 0.00  
ATOM 13835 2HG2 VAL 919 112.737 99.244 46.446 0.00 0.00  
ATOM 13836 3HG2 VAL 919 113.381 99.659 48.145 0.00 0.00  
ATOM 13837 C VAL 919 110.903 100.504 48.862 0.00 0.00  
ATOM 13838 O VAL 919 111.333 101.460 48.245 0.00 0.00  
ATOM 13839 N ASN 920 110.725 100.547 50.216 0.00 0.00  
ATOM 13840 H ASN 920 110.299 99.673 50.487 0.00 0.00  
ATOM 13841 CA ASN 920 110.824 101.743 51.040 0.00 0.00  
ATOM 13842 HA ASN 920 109.870 102.248 51.187 0.00 0.00  
ATOM 13843 CB ASN 920 111.263 101.212 52.426 0.00 0.00  
ATOM 13844 HB2 ASN 920 110.600 100.399 52.723 0.00 0.00  
ATOM 13845 HB3 ASN 920 112.252 100.782 52.269 0.00 0.00  
ATOM 13846 CG ASN 920 111.416 102.306 53.493 0.00 0.00  
ATOM 13847 OD1 ASN 920 111.515 103.464 53.208 0.00 0.00  
ATOM 13848 ND2 ASN 920 111.360 101.968 54.718 0.00 0.00  
ATOM 13849 1HD2 ASN 920 111.408 102.717 55.394 0.00 0.00  
ATOM 13850 2HD2 ASN 920 111.081 101.036 54.990 0.00 0.00  
ATOM 13851 C ASN 920 111.805 102.795 50.500 0.00 0.00  
ATOM 13852 O ASN 920 113.018 102.519 50.355 0.00 0.00  
ATOM 13853 N PRO 921 111.429 104.057 50.173 0.00 0.00  
ATOM 13854 CD PRO 921 110.058 104.510 50.131 0.00 0.00



ATOM	13855	HD2 PRO	921	109.452	103.832	49.530	0.00	0.00
ATOM	13856	HD3 PRO	921	109.659	104.414	51.141	0.00	0.00
ATOM	13857	CG PRO	921	110.159	105.881	49.494	0.00	0.00
ATOM	13858	HG2 PRO	921	110.037	105.920	48.411	0.00	0.00
ATOM	13859	HG3 PRO	921	109.407	106.583	49.851	0.00	0.00
ATOM	13860	CB PRO	921	111.499	106.372	49.959	0.00	0.00
ATOM	13861	HB2 PRO	921	111.786	107.227	49.346	0.00	0.00
ATOM	13862	HB3 PRO	921	111.394	106.643	51.009	0.00	0.00
ATOM	13863	CA PRO	921	112.334	105.157	49.683	0.00	0.00
ATOM	13864	HA PRO	921	112.517	104.976	48.624	0.00	0.00
ATOM	13865	C PRO	921	113.741	105.284	50.391	0.00	0.00
ATOM	13866	O PRO	921	114.769	105.517	49.734	0.00	0.00
ATOM	13867	N ALA	922	113.784	104.988	51.678	0.00	0.00
ATOM	13868	H ALA	922	113.013	104.479	52.086	0.00	0.00
ATOM	13869	CA ALA	922	115.065	104.845	52.436	0.00	0.00
ATOM	13870	HA ALA	922	115.488	105.847	52.502	0.00	0.00
ATOM	13871	CB ALA	922	114.595	104.482	53.835	0.00	0.00
ATOM	13872	HB1 ALA	922	115.420	104.768	54.488	0.00	0.00
ATOM	13873	HB2 ALA	922	113.653	104.938	54.139	0.00	0.00
ATOM	13874	HB3 ALA	922	114.542	103.394	53.872	0.00	0.00
ATOM	13875	C ALA	922	116.128	103.845	51.911	0.00	0.00
ATOM	13876	O ALA	922	117.288	103.921	52.274	0.00	0.00
ATOM	13877	N LEU	923	115.724	102.914	51.034	0.00	0.00
ATOM	13878	H LEU	923	114.724	102.820	50.924	0.00	0.00
ATOM	13879	CA LEU	923	116.627	101.992	50.305	0.00	0.00
ATOM	13880	HA LEU	923	117.506	101.800	50.920	0.00	0.00

ATOM 13881 CB LEU 923 116.050 100.572 50.041 0.00 0.00  
ATOM 13882 HB2 LEU 923 115.252 100.621 49.300 0.00 0.00  
ATOM 13883 HB3 LEU 923 116.788 99.989 49.491 0.00 0.00  
ATOM 13884 CG LEU 923 115.633 99.683 51.262 0.00 0.00  
ATOM 13885 HG LEU 923 114.845 100.106 51.885 0.00 0.00  
ATOM 13886 CD1 LEU 923 115.112 98.314 50.756 0.00 0.00  
ATOM 13887 1HD1 LEU 923 114.034 98.439 50.654 0.00 0.00  
ATOM 13888 2HD1 LEU 923 115.531 98.162 49.761 0.00 0.00  
ATOM 13889 3HD1 LEU 923 115.222 97.497 51.469 0.00 0.00  
ATOM 13890 CD2 LEU 923 116.779 99.414 52.244 0.00 0.00  
ATOM 13891 1HD2 LEU 923 116.518 98.734 53.055 0.00 0.00  
ATOM 13892 2HD2 LEU 923 117.647 99.143 51.643 0.00 0.00  
ATOM 13893 3HD2 LEU 923 117.173 100.299 52.742 0.00 0.00  
ATOM 13894 C LEU 923 117.039 102.743 49.032 0.00 0.00  
ATOM 13895 O LEU 923 116.299 102.854 48.028 0.00 0.00  
ATOM 13896 N LYS 924 118.214 103.340 49.030 0.00 0.00  
ATOM 13897 H LYS 924 118.818 103.124 49.809 0.00 0.00  
ATOM 13898 CA LYS 924 118.679 104.349 48.080 0.00 0.00  
ATOM 13899 HA LYS 924 117.847 104.833 47.569 0.00 0.00  
ATOM 13900 CB LYS 924 119.274 105.388 48.962 0.00 0.00  
ATOM 13901 HB2 LYS 924 118.517 105.629 49.708 0.00 0.00  
ATOM 13902 HB3 LYS 924 120.192 105.054 49.444 0.00 0.00  
ATOM 13903 CG LYS 924 119.580 106.541 48.026 0.00 0.00  
ATOM 13904 HG2 LYS 924 120.406 106.370 47.337 0.00 0.00  
ATOM 13905 HG3 LYS 924 118.668 106.842 47.510 0.00 0.00  
ATOM 13906 CD LYS 924 119.975 107.776 48.860 0.00 0.00

ATOM	13907	HD2	LYS	924	119.181	107.965	49.583	0.00	0.00
ATOM	13908	HD3	LYS	924	120.968	107.465	49.184	0.00	0.00
ATOM	13909	CE	LYS	924	120.103	109.052	47.894	0.00	0.00
ATOM	13910	HE2	LYS	924	121.012	108.929	47.306	0.00	0.00
ATOM	13911	HE3	LYS	924	119.223	108.995	47.253	0.00	0.00
ATOM	13912	NZ	LYS	924	120.246	110.250	48.630	0.00	0.00
ATOM	13913	HZ1	LYS	924	119.501	110.339	49.306	0.00	0.00
ATOM	13914	HZ2	LYS	924	121.123	110.261	49.129	0.00	0.00
ATOM	13915	HZ3	LYS	924	120.319	111.042	48.008	0.00	0.00
ATOM	13916	C	LYS	924	119.457	103.736	46.893	0.00	0.00
ATOM	13917	O	LYS	924	120.540	103.228	47.091	0.00	0.00
ATOM	13918	N	PHE	925	118.870	103.682	45.734	0.00	0.00
ATOM	13919	H	PHE	925	118.034	104.239	45.632	0.00	0.00
ATOM	13920	CA	PHE	925	119.383	103.167	44.435	0.00	0.00
ATOM	13921	HA	PHE	925	120.403	103.544	44.355	0.00	0.00
ATOM	13922	CB	PHE	925	119.446	101.602	44.408	0.00	0.00
ATOM	13923	HB2	PHE	925	120.322	101.260	43.857	0.00	0.00
ATOM	13924	HB3	PHE	925	119.589	101.168	45.398	0.00	0.00
ATOM	13925	CG	PHE	925	118.203	100.887	43.959	0.00	0.00
ATOM	13926	CD1	PHE	925	117.905	100.658	42.610	0.00	0.00
ATOM	13927	HD1	PHE	925	118.596	101.133	41.930	0.00	0.00
ATOM	13928	CE1	PHE	925	116.783	100.002	42.119	0.00	0.00
ATOM	13929	HE1	PHE	925	116.772	99.763	41.066	0.00	0.00
ATOM	13930	CZ	PHE	925	115.849	99.676	43.071	0.00	0.00
ATOM	13931	HZ	PHE	925	115.087	98.958	42.806	0.00	0.00
ATOM	13932	CE2	PHE	925	116.067	99.854	44.469	0.00	0.00

ATOM	13933	HE2	PHE	925	115.332	99.416	45.127	0.00	0.00
ATOM	13934	CD2	PHE	925	117.194	100.473	44.875	0.00	0.00
ATOM	13935	HD2	PHE	925	117.300	100.550	45.947	0.00	0.00
ATOM	13936	C	PHE	925	118.527	103.807	43.350	0.00	0.00
ATOM	13937	O	PHE	925	117.374	104.138	43.551	0.00	0.00
ATOM	13938	N	ASP	926	119.052	103.849	42.112	0.00	0.00
ATOM	13939	H	ASP	926	119.988	103.493	41.978	0.00	0.00
ATOM	13940	CA	ASP	926	118.420	104.349	40.869	0.00	0.00
ATOM	13941	HA	ASP	926	118.078	105.375	41.002	0.00	0.00
ATOM	13942	CB	ASP	926	119.499	104.372	39.818	0.00	0.00
ATOM	13943	HB2	ASP	926	120.276	105.093	40.072	0.00	0.00
ATOM	13944	HB3	ASP	926	120.053	103.433	39.840	0.00	0.00
ATOM	13945	CG	ASP	926	119.134	104.764	38.415	0.00	0.00
ATOM	13946	OD1	ASP	926	119.699	104.176	37.481	0.00	0.00
ATOM	13947	OD2	ASP	926	118.296	105.625	38.198	0.00	0.00
ATOM	13948	C	ASP	926	117.300	103.424	40.413	0.00	0.00
ATOM	13949	O	ASP	926	117.470	102.580	39.484	0.00	0.00
ATOM	13950	N	ARG	927	116.049	103.508	41.002	0.00	0.00
ATOM	13951	H	ARG	927	115.977	104.089	41.825	0.00	0.00
ATOM	13952	CA	ARG	927	114.833	102.640	40.720	0.00	0.00
ATOM	13953	HA	ARG	927	115.056	101.663	41.149	0.00	0.00
ATOM	13954	CB	ARG	927	113.612	103.240	41.478	0.00	0.00
ATOM	13955	HB2	ARG	927	113.131	104.000	40.863	0.00	0.00
ATOM	13956	HB3	ARG	927	112.810	102.501	41.497	0.00	0.00
ATOM	13957	CG	ARG	927	113.674	103.694	42.913	0.00	0.00
ATOM	13958	HG2	ARG	927	114.449	104.456	42.998	0.00	0.00

ATOM 13959 HG3 ARG 927 112.637 103.911 43.169 0.00 0.00  
ATOM 13960 CD ARG 927 114.270 102.527 43.731 0.00 0.00  
ATOM 13961 HD2 ARG 927 113.650 101.642 43.584 0.00 0.00  
ATOM 13962 HD3 ARG 927 115.288 102.385 43.369 0.00 0.00  
ATOM 13963 NE ARG 927 114.395 102.827 45.104 0.00 0.00  
ATOM 13964 HE ARG 927 115.327 103.008 45.450 0.00 0.00  
ATOM 13965 CZ ARG 927 113.451 102.715 46.036 0.00 0.00  
ATOM 13966 NH1 ARG 927 112.220 102.385 45.746 0.00 0.00  
ATOM 13967 1HH1 ARG 927 111.500 102.289 46.447 0.00 0.00  
ATOM 13968 2HH1 ARG 927 111.926 102.317 44.782 0.00 0.00  
ATOM 13969 NH2 ARG 927 113.650 102.809 47.316 0.00 0.00  
ATOM 13970 1HH2 ARG 927 112.856 102.510 47.865 0.00 0.00  
ATOM 13971 2HH2 ARG 927 114.580 102.826 47.709 0.00 0.00  
ATOM 13972 C ARG 927 114.488 102.254 39.298 0.00 0.00  
ATOM 13973 O ARG 927 113.845 101.263 39.022 0.00 0.00  
ATOM 13974 N GLN 928 114.934 103.033 38.330 0.00 0.00  
ATOM 13975 H GLN 928 115.433 103.782 38.788 0.00 0.00  
ATOM 13976 CA GLN 928 114.661 102.834 36.878 0.00 0.00  
ATOM 13977 HA GLN 928 113.585 102.689 36.782 0.00 0.00  
ATOM 13978 CB GLN 928 115.212 103.949 36.062 0.00 0.00  
ATOM 13979 HB2 GLN 928 114.930 104.832 36.636 0.00 0.00  
ATOM 13980 HB3 GLN 928 116.291 103.836 35.956 0.00 0.00  
ATOM 13981 CG GLN 928 114.609 104.139 34.638 0.00 0.00  
ATOM 13982 HG2 GLN 928 115.148 104.918 34.098 0.00 0.00  
ATOM 13983 HG3 GLN 928 114.687 103.265 33.991 0.00 0.00  
ATOM 13984 CD GLN 928 113.222 104.634 34.775 0.00 0.00

ATOM	13985	OE1	GLN	928	113.003	105.639	35.430	0.00	0.00
ATOM	13986	NE2	GLN	928	112.371	104.085	33.990	0.00	0.00
ATOM	13987	1HE2	GLN	928	111.426	104.441	33.994	0.00	0.00
ATOM	13988	2HE2	GLN	928	112.645	103.253	33.488	0.00	0.00
ATOM	13989	C	GLN	928	115.274	101.497	36.383	0.00	0.00
ATOM	13990	O	GLN	928	114.505	100.769	35.721	0.00	0.00
ATOM	13991	N	GLN	929	116.409	101.079	36.932	0.00	0.00
ATOM	13992	H	GLN	929	116.890	101.810	37.436	0.00	0.00
ATOM	13993	CA	GLN	929	117.096	99.775	36.679	0.00	0.00
ATOM	13994	HA	GLN	929	117.354	99.639	35.628	0.00	0.00
ATOM	13995	CB	GLN	929	118.492	99.777	37.453	0.00	0.00
ATOM	13996	HB2	GLN	929	118.326	100.221	38.435	0.00	0.00
ATOM	13997	HB3	GLN	929	118.849	98.752	37.544	0.00	0.00
ATOM	13998	CG	GLN	929	119.512	100.664	36.777	0.00	0.00
ATOM	13999	HG2	GLN	929	119.665	100.288	35.765	0.00	0.00
ATOM	14000	HG3	GLN	929	119.044	101.646	36.716	0.00	0.00
ATOM	14001	CD	GLN	929	120.834	100.653	37.533	0.00	0.00
ATOM	14002	OE1	GLN	929	121.311	99.566	37.894	0.00	0.00
ATOM	14003	NE2	GLN	929	121.435	101.797	37.775	0.00	0.00
ATOM	14004	1HE2	GLN	929	122.191	101.790	38.445	0.00	0.00
ATOM	14005	2HE2	GLN	929	120.959	102.650	37.517	0.00	0.00
ATOM	14006	C	GLN	929	116.244	98.584	37.081	0.00	0.00
ATOM	14007	O	GLN	929	116.596	97.482	36.637	0.00	0.00
ATOM	14008	N	ALA	930	115.254	98.759	37.935	0.00	0.00
ATOM	14009	H	ALA	930	115.034	99.675	38.299	0.00	0.00
ATOM	14010	CA	ALA	930	114.491	97.705	38.635	0.00	0.00

ATOM	14011	HA	ALA	930	114.740	96.704	38.284	0.00	0.00
ATOM	14012	CB	ALA	930	114.844	97.742	40.122	0.00	0.00
ATOM	14013	HB1	ALA	930	115.921	97.716	40.282	0.00	0.00
ATOM	14014	HB2	ALA	930	114.464	98.682	40.523	0.00	0.00
ATOM	14015	HB3	ALA	930	114.321	96.961	40.675	0.00	0.00
ATOM	14016	C	ALA	930	112.926	97.813	38.410	0.00	0.00
ATOM	14017	O	ALA	930	112.121	97.278	39.138	0.00	0.00
ATOM	14018	N	ALA	931	112.493	98.498	37.367	0.00	0.00
ATOM	14019	H	ALA	931	113.246	98.886	36.818	0.00	0.00
ATOM	14020	CA	ALA	931	111.104	98.752	37.044	0.00	0.00
ATOM	14021	HA	ALA	931	110.528	98.964	37.945	0.00	0.00
ATOM	14022	CB	ALA	931	111.014	100.010	36.151	0.00	0.00
ATOM	14023	HB1	ALA	931	111.782	100.716	36.467	0.00	0.00
ATOM	14024	HB2	ALA	931	111.276	99.708	35.137	0.00	0.00
ATOM	14025	HB3	ALA	931	109.996	100.396	36.110	0.00	0.00
ATOM	14026	C	ALA	931	110.514	97.453	36.397	0.00	0.00
ATOM	14027	O	ALA	931	110.828	97.063	35.218	0.00	0.00
ATOM	14028	N	GLY	932	109.731	96.717	37.145	0.00	0.00
ATOM	14029	H	GLY	932	109.668	96.977	38.119	0.00	0.00
ATOM	14030	CA	GLY	932	109.175	95.452	36.756	0.00	0.00
ATOM	14031	HA2	GLY	932	108.264	95.285	37.331	0.00	0.00
ATOM	14032	HA3	GLY	932	108.924	95.358	35.700	0.00	0.00
ATOM	14033	C	GLY	932	110.027	94.286	37.090	0.00	0.00
ATOM	14034	O	GLY	932	109.729	93.227	36.642	0.00	0.00
ATOM	14035	N	TYR	933	111.048	94.435	37.929	0.00	0.00
ATOM	14036	H	TYR	933	111.086	95.391	38.251	0.00	0.00

ATOM	14037	CA	TYR	933	111.834	93.491	38.610	0.00	0.00
ATOM	14038	HA	TYR	933	111.682	92.526	38.127	0.00	0.00
ATOM	14039	CB	TYR	933	113.254	93.807	38.287	0.00	0.00
ATOM	14040	HB2	TYR	933	113.547	94.733	38.782	0.00	0.00
ATOM	14041	HB3	TYR	933	113.791	92.978	38.749	0.00	0.00
ATOM	14042	CG	TYR	933	113.753	93.905	36.887	0.00	0.00
ATOM	14043	CD1	TYR	933	113.580	95.024	36.088	0.00	0.00
ATOM	14044	HD1	TYR	933	113.164	95.892	36.579	0.00	0.00
ATOM	14045	CE1	TYR	933	114.219	95.122	34.866	0.00	0.00
ATOM	14046	HE1	TYR	933	114.124	96.032	34.292	0.00	0.00
ATOM	14047	CZ	TYR	933	114.869	93.967	34.302	0.00	0.00
ATOM	14048	OH	TYR	933	115.423	94.096	33.096	0.00	0.00
ATOM	14049	HH	TYR	933	116.244	93.598	33.073	0.00	0.00
ATOM	14050	CE2	TYR	933	114.968	92.758	35.066	0.00	0.00
ATOM	14051	HE2	TYR	933	115.509	91.902	34.690	0.00	0.00
ATOM	14052	CD2	TYR	933	114.394	92.758	36.356	0.00	0.00
ATOM	14053	HD2	TYR	933	114.599	91.940	37.032	0.00	0.00
ATOM	14054	C	TYR	933	111.490	93.346	40.112	0.00	0.00
ATOM	14055	O	TYR	933	111.180	94.275	40.754	0.00	0.00
ATOM	14056	N	ARG	934	111.593	92.086	40.544	0.00	0.00
ATOM	14057	H	ARG	934	111.884	91.387	39.876	0.00	0.00
ATOM	14058	CA	ARG	934	111.528	91.606	41.934	0.00	0.00
ATOM	14059	HA	ARG	934	111.378	92.462	42.592	0.00	0.00
ATOM	14060	CB	ARG	934	110.349	90.681	42.088	0.00	0.00
ATOM	14061	HB2	ARG	934	110.347	90.383	43.136	0.00	0.00
ATOM	14062	HB3	ARG	934	109.402	91.188	41.904	0.00	0.00



ATOM 14063 CG ARG 934 110.471 89.440 41.209 0.00 0.00  
ATOM 14064 HG2 ARG 934 110.330 89.807 40.192 0.00 0.00  
ATOM 14065 HG3 ARG 934 111.432 88.928 41.253 0.00 0.00  
ATOM 14066 CD ARG 934 109.284 88.592 41.696 0.00 0.00  
ATOM 14067 HD2 ARG 934 109.242 88.542 42.785 0.00 0.00  
ATOM 14068 HD3 ARG 934 108.390 89.120 41.363 0.00 0.00  
ATOM 14069 NE ARG 934 109.271 87.179 41.150 0.00 0.00  
ATOM 14070 HE ARG 934 108.583 86.897 40.467 0.00 0.00  
ATOM 14071 CZ ARG 934 110.073 86.150 41.459 0.00 0.00  
ATOM 14072 NH1 ARG 934 111.023 86.308 42.311 0.00 0.00  
ATOM 14073 1HH1 ARG 934 111.508 85.501 42.676 0.00 0.00  
ATOM 14074 2HH1 ARG 934 111.346 87.203 42.650 0.00 0.00  
ATOM 14075 NH2 ARG 934 109.952 85.044 40.906 0.00 0.00  
ATOM 14076 1HH2 ARG 934 110.639 84.326 41.086 0.00 0.00  
ATOM 14077 2HH2 ARG 934 109.140 84.825 40.347 0.00 0.00  
ATOM 14078 C ARG 934 112.840 90.866 42.250 0.00 0.00  
ATOM 14079 O ARG 934 113.546 90.514 41.313 0.00 0.00  
ATOM 14080 N LEU 935 113.061 90.656 43.553 0.00 0.00  
ATOM 14081 H LEU 935 112.267 90.762 44.168 0.00 0.00  
ATOM 14082 CA LEU 935 114.235 89.968 44.102 0.00 0.00  
ATOM 14083 HA LEU 935 115.148 90.408 43.701 0.00 0.00  
ATOM 14084 CB LEU 935 114.311 90.120 45.617 0.00 0.00  
ATOM 14085 HB2 LEU 935 113.323 89.937 46.041 0.00 0.00  
ATOM 14086 HB3 LEU 935 114.954 89.362 46.063 0.00 0.00  
ATOM 14087 CG LEU 935 114.821 91.440 46.203 0.00 0.00  
ATOM 14088 HG LEU 935 114.486 92.273 45.585 0.00 0.00

ATOM	14089	CD1	LEU	935	114.169	91.713	47.560	0.00	0.00
ATOM	14090	1HD1	LEU	935	113.080	91.686	47.566	0.00	0.00
ATOM	14091	2HD1	LEU	935	114.423	90.887	48.225	0.00	0.00
ATOM	14092	3HD1	LEU	935	114.494	92.683	47.935	0.00	0.00
ATOM	14093	CD2	LEU	935	116.321	91.372	46.400	0.00	0.00
ATOM	14094	1HD2	LEU	935	116.615	92.314	46.863	0.00	0.00
ATOM	14095	2HD2	LEU	935	116.606	90.507	47.000	0.00	0.00
ATOM	14096	3HD2	LEU	935	116.863	91.255	45.462	0.00	0.00
ATOM	14097	C	LEU	935	114.315	88.488	43.582	0.00	0.00
ATOM	14098	O	LEU	935	113.336	87.774	43.399	0.00	0.00
ATOM	14099	N	ASN	936	115.578	88.047	43.358	0.00	0.00
ATOM	14100	H	ASN	936	116.360	88.651	43.566	0.00	0.00
ATOM	14101	CA	ASN	936	115.849	86.765	42.665	0.00	0.00
ATOM	14102	HA	ASN	936	114.906	86.461	42.209	0.00	0.00
ATOM	14103	CB	ASN	936	116.994	86.760	41.622	0.00	0.00
ATOM	14104	HB2	ASN	936	116.973	87.747	41.159	0.00	0.00
ATOM	14105	HB3	ASN	936	117.943	86.581	42.127	0.00	0.00
ATOM	14106	CG	ASN	936	116.952	85.600	40.548	0.00	0.00
ATOM	14107	OD1	ASN	936	115.918	84.947	40.279	0.00	0.00
ATOM	14108	ND2	ASN	936	118.059	85.193	39.967	0.00	0.00
ATOM	14109	1HD2	ASN	936	118.059	84.341	39.424	0.00	0.00
ATOM	14110	2HD2	ASN	936	118.910	85.736	39.963	0.00	0.00
ATOM	14111	C	ASN	936	115.869	85.576	43.635	0.00	0.00
ATOM	14112	O	ASN	936	116.420	84.515	43.396	0.00	0.00
ATOM	14113	N	ILE	937	115.496	85.822	44.934	0.00	0.00
ATOM	14114	H	ILE	937	115.028	86.714	45.001	0.00	0.00

ATOM 14115 CA ILE 937 115.580 84.946 46.110 0.00 0.00  
ATOM 14116 HA ILE 937 116.500 84.363 46.067 0.00 0.00  
ATOM 14117 CB ILE 937 115.862 85.812 47.396 0.00 0.00  
ATOM 14118 HB ILE 937 116.065 85.133 48.223 0.00 0.00  
ATOM 14119 CG2 ILE 937 117.110 86.656 47.125 0.00 0.00  
ATOM 14120 1HG2 ILE 937 117.977 86.033 46.902 0.00 0.00  
ATOM 14121 2HG2 ILE 937 117.110 87.304 46.248 0.00 0.00  
ATOM 14122 3HG2 ILE 937 117.383 87.361 47.911 0.00 0.00  
ATOM 14123 CG1 ILE 937 114.635 86.690 47.652 0.00 0.00  
ATOM 14124 2HG1 ILE 937 114.248 87.184 46.760 0.00 0.00  
ATOM 14125 3HG1 ILE 937 113.897 85.961 47.987 0.00 0.00  
ATOM 14126 CD1 ILE 937 114.732 87.579 48.911 0.00 0.00  
ATOM 14127 1HD1 ILE 937 115.464 87.174 49.609 0.00 0.00  
ATOM 14128 2HD1 ILE 937 115.134 88.507 48.505 0.00 0.00  
ATOM 14129 3HD1 ILE 937 113.767 87.754 49.387 0.00 0.00  
ATOM 14130 C ILE 937 114.288 84.048 46.190 0.00 0.00  
ATOM 14131 O ILE 937 113.165 84.393 45.705 0.00 0.00  
ATOM 14132 N PRO 938 114.362 82.892 46.878 0.00 0.00  
ATOM 14133 CD PRO 938 115.549 82.172 47.360 0.00 0.00  
ATOM 14134 HD2 PRO 938 116.348 82.138 46.619 0.00 0.00  
ATOM 14135 HD3 PRO 938 115.874 82.824 48.170 0.00 0.00  
ATOM 14136 CG PRO 938 115.117 80.828 47.828 0.00 0.00  
ATOM 14137 HG2 PRO 938 115.339 80.028 47.121 0.00 0.00  
ATOM 14138 HG3 PRO 938 115.527 80.660 48.824 0.00 0.00  
ATOM 14139 CB PRO 938 113.636 80.917 47.973 0.00 0.00  
ATOM 14140 HB2 PRO 938 113.154 79.962 47.766 0.00 0.00

ATOM	14141	HB3	PRO	938	113.516	81.251	49.004	0.00	0.00
ATOM	14142	CA	PRO	938	113.163	82.026	47.012	0.00	0.00
ATOM	14143	HA	PRO	938	112.949	81.605	46.030	0.00	0.00
ATOM	14144	C	PRO	938	111.867	82.670	47.562	0.00	0.00
ATOM	14145	O	PRO	938	111.921	83.484	48.494	0.00	0.00
ATOM	14146	N	ALA	939	110.734	82.169	47.125	0.00	0.00
ATOM	14147	H	ALA	939	110.782	81.439	46.428	0.00	0.00
ATOM	14148	CA	ALA	939	109.416	82.585	47.441	0.00	0.00
ATOM	14149	HA	ALA	939	109.475	83.644	47.188	0.00	0.00
ATOM	14150	CB	ALA	939	108.387	81.863	46.609	0.00	0.00
ATOM	14151	HB1	ALA	939	108.494	80.780	46.681	0.00	0.00
ATOM	14152	HB2	ALA	939	107.411	82.044	47.058	0.00	0.00
ATOM	14153	HB3	ALA	939	108.503	82.130	45.559	0.00	0.00
ATOM	14154	C	ALA	939	109.071	82.607	48.945	0.00	0.00
ATOM	14155	O	ALA	939	109.170	81.522	49.580	0.00	0.00
ATOM	14156	N	GLY	940	108.804	83.868	49.482	0.00	0.00
ATOM	14157	H	GLY	940	108.844	84.646	48.839	0.00	0.00
ATOM	14158	CA	GLY	940	108.659	84.161	50.870	0.00	0.00
ATOM	14159	HA2	GLY	940	108.124	85.047	51.212	0.00	0.00
ATOM	14160	HA3	GLY	940	108.204	83.352	51.441	0.00	0.00
ATOM	14161	C	GLY	940	109.980	84.427	51.714	0.00	0.00
ATOM	14162	O	GLY	940	109.891	84.831	52.894	0.00	0.00
ATOM	14163	N	THR	941	111.154	84.199	51.168	0.00	0.00
ATOM	14164	H	THR	941	111.099	83.935	50.195	0.00	0.00
ATOM	14165	CA	THR	941	112.446	84.740	51.795	0.00	0.00
ATOM	14166	HA	THR	941	112.457	84.755	52.885	0.00	0.00

ATOM	14167	CB	THR	941	113.716	83.979	51.439	0.00	0.00
ATOM	14168	HB	THR	941	114.516	84.471	51.992	0.00	0.00
ATOM	14169	CG2	THR	941	113.615	82.455	51.612	0.00	0.00
ATOM	14170	1HG2	THR	941	113.591	82.192	52.669	0.00	0.00
ATOM	14171	2HG2	THR	941	112.651	82.071	51.278	0.00	0.00
ATOM	14172	3HG2	THR	941	114.459	81.897	51.206	0.00	0.00
ATOM	14173	OG1	THR	941	114.005	84.181	50.113	0.00	0.00
ATOM	14174	HG1	THR	941	113.269	83.829	49.607	0.00	0.00
ATOM	14175	C	THR	941	112.757	86.187	51.539	0.00	0.00
ATOM	14176	O	THR	941	111.962	86.799	50.856	0.00	0.00
ATOM	14177	N	ALA	942	113.710	86.765	52.268	0.00	0.00
ATOM	14178	H	ALA	942	114.226	86.156	52.887	0.00	0.00
ATOM	14179	CA	ALA	942	113.877	88.244	52.386	0.00	0.00
ATOM	14180	HA	ALA	942	113.514	88.719	51.475	0.00	0.00
ATOM	14181	CB	ALA	942	113.068	88.844	53.580	0.00	0.00
ATOM	14182	HB1	ALA	942	112.132	88.326	53.788	0.00	0.00
ATOM	14183	HB2	ALA	942	113.713	88.877	54.458	0.00	0.00
ATOM	14184	HB3	ALA	942	112.906	89.903	53.379	0.00	0.00
ATOM	14185	C	ALA	942	115.346	88.732	52.409	0.00	0.00
ATOM	14186	O	ALA	942	116.253	87.981	52.545	0.00	0.00
ATOM	14187	N	VAL	943	115.412	90.021	52.365	0.00	0.00
ATOM	14188	H	VAL	943	114.582	90.547	52.133	0.00	0.00
ATOM	14189	CA	VAL	943	116.704	90.770	52.509	0.00	0.00
ATOM	14190	HA	VAL	943	117.475	90.098	52.885	0.00	0.00
ATOM	14191	CB	VAL	943	117.101	91.406	51.142	0.00	0.00
ATOM	14192	HB	VAL	943	116.438	92.261	51.012	0.00	0.00

ATOM 14193 CG1 VAL 943 118.606 91.876 51.224 0.00 0.00  
ATOM 14194 1HG1 VAL 943 119.155 91.078 51.723 0.00 0.00  
ATOM 14195 2HG1 VAL 943 118.978 91.947 50.201 0.00 0.00  
ATOM 14196 3HG1 VAL 943 118.678 92.815 51.773 0.00 0.00  
ATOM 14197 CG2 VAL 943 116.937 90.434 50.017 0.00 0.00  
ATOM 14198 1HG2 VAL 943 117.391 90.911 49.149 0.00 0.00  
ATOM 14199 2HG2 VAL 943 117.588 89.566 50.126 0.00 0.00  
ATOM 14200 3HG2 VAL 943 115.890 90.168 49.871 0.00 0.00  
ATOM 14201 C VAL 943 116.522 91.884 53.512 0.00 0.00  
ATOM 14202 O VAL 943 115.567 92.644 53.392 0.00 0.00  
ATOM 14203 N ARG 944 117.395 91.968 54.461 0.00 0.00  
ATOM 14204 H ARG 944 118.169 91.321 54.409 0.00 0.00  
ATOM 14205 CA ARG 944 117.332 92.736 55.688 0.00 0.00  
ATOM 14206 HA ARG 944 116.354 93.214 55.752 0.00 0.00  
ATOM 14207 CB ARG 944 117.546 91.877 56.917 0.00 0.00  
ATOM 14208 HB2 ARG 944 116.962 90.984 56.693 0.00 0.00  
ATOM 14209 HB3 ARG 944 118.573 91.545 57.069 0.00 0.00  
ATOM 14210 CG ARG 944 116.983 92.570 58.188 0.00 0.00  
ATOM 14211 HG2 ARG 944 117.549 93.501 58.204 0.00 0.00  
ATOM 14212 HG3 ARG 944 115.911 92.680 58.023 0.00 0.00  
ATOM 14213 CD ARG 944 117.247 91.829 59.493 0.00 0.00  
ATOM 14214 HD2 ARG 944 116.732 90.870 59.435 0.00 0.00  
ATOM 14215 HD3 ARG 944 118.279 91.491 59.588 0.00 0.00  
ATOM 14216 NE ARG 944 116.734 92.597 60.590 0.00 0.00  
ATOM 14217 HE ARG 944 115.796 92.442 60.932 0.00 0.00  
ATOM 14218 CZ ARG 944 117.340 93.632 61.195 0.00 0.00

ATOM	14219	NH1	ARG	944	118.482	94.022	60.838	0.00	0.00
ATOM	14220	1HH1	ARG	944	119.029	94.624	61.437	0.00	0.00
ATOM	14221	2HH1	ARG	944	118.835	93.523	60.033	0.00	0.00
ATOM	14222	NH2	ARG	944	116.873	94.112	62.320	0.00	0.00
ATOM	14223	1HH2	ARG	944	117.432	94.717	62.904	0.00	0.00
ATOM	14224	2HH2	ARG	944	115.867	94.048	62.379	0.00	0.00
ATOM	14225	C	ARG	944	118.310	93.902	55.638	0.00	0.00
ATOM	14226	O	ARG	944	119.383	93.692	55.083	0.00	0.00
ATOM	14227	N	PHE	945	118.024	95.077	56.193	0.00	0.00
ATOM	14228	H	PHE	945	117.138	95.093	56.678	0.00	0.00
ATOM	14229	CA	PHE	945	118.992	96.161	56.281	0.00	0.00
ATOM	14230	HA	PHE	945	120.002	95.763	56.191	0.00	0.00
ATOM	14231	CB	PHE	945	118.809	97.320	55.300	0.00	0.00
ATOM	14232	HB2	PHE	945	117.960	97.944	55.580	0.00	0.00
ATOM	14233	HB3	PHE	945	119.671	97.959	55.493	0.00	0.00
ATOM	14234	CG	PHE	945	118.868	96.967	53.883	0.00	0.00
ATOM	14235	CD1	PHE	945	120.013	97.240	53.118	0.00	0.00
ATOM	14236	HD1	PHE	945	120.785	97.844	53.572	0.00	0.00
ATOM	14237	CE1	PHE	945	120.105	96.677	51.801	0.00	0.00
ATOM	14238	HE1	PHE	945	120.960	96.952	51.202	0.00	0.00
ATOM	14239	CZ	PHE	945	119.019	95.976	51.273	0.00	0.00
ATOM	14240	HZ	PHE	945	119.184	95.389	50.382	0.00	0.00
ATOM	14241	CE2	PHE	945	117.896	95.748	52.045	0.00	0.00
ATOM	14242	HE2	PHE	945	117.177	95.177	51.477	0.00	0.00
ATOM	14243	CD2	PHE	945	117.756	96.273	53.309	0.00	0.00
ATOM	14244	HD2	PHE	945	116.867	96.259	53.923	0.00	0.00

ATOM	14245	C	PHE	945	118.763	96.848	57.690	0.00	0.00
ATOM	14246	O	PHE	945	117.777	97.485	57.954	0.00	0.00
ATOM	14247	N	GLU	946	119.879	96.893	58.460	0.00	0.00
ATOM	14248	H	GLU	946	120.681	96.337	58.200	0.00	0.00
ATOM	14249	CA	GLU	946	119.929	97.869	59.524	0.00	0.00
ATOM	14250	HA	GLU	946	119.051	97.834	60.169	0.00	0.00
ATOM	14251	CB	GLU	946	121.310	97.602	60.243	0.00	0.00
ATOM	14252	HB2	GLU	946	122.138	97.655	59.536	0.00	0.00
ATOM	14253	HB3	GLU	946	121.609	98.482	60.814	0.00	0.00
ATOM	14254	CG	GLU	946	121.324	96.350	61.138	0.00	0.00
ATOM	14255	HG2	GLU	946	120.902	95.537	60.547	0.00	0.00
ATOM	14256	HG3	GLU	946	122.347	96.069	61.392	0.00	0.00
ATOM	14257	CD	GLU	946	120.523	96.515	62.419	0.00	0.00
ATOM	14258	OE1	GLU	946	119.409	95.976	62.519	0.00	0.00
ATOM	14259	OE2	GLU	946	120.807	97.328	63.310	0.00	0.00
ATOM	14260	C	GLU	946	119.966	99.281	58.902	0.00	0.00
ATOM	14261	O	GLU	946	120.330	99.448	57.730	0.00	0.00
ATOM	14262	N	PRO	947	119.719	100.302	59.706	0.00	0.00
ATOM	14263	CD	PRO	947	119.342	100.188	61.084	0.00	0.00
ATOM	14264	HD2	PRO	947	118.258	100.076	61.087	0.00	0.00
ATOM	14265	HD3	PRO	947	119.870	99.416	61.643	0.00	0.00
ATOM	14266	CG	PRO	947	119.712	101.564	61.671	0.00	0.00
ATOM	14267	HG2	PRO	947	118.908	101.822	62.360	0.00	0.00
ATOM	14268	HG3	PRO	947	120.744	101.390	61.977	0.00	0.00
ATOM	14269	CB	PRO	947	119.706	102.463	60.525	0.00	0.00
ATOM	14270	HB2	PRO	947	118.699	102.839	60.347	0.00	0.00



ATOM	14271	HB3	PRO	947	120.285	103.375	60.664	0.00	0.00
ATOM	14272	CA	PRO	947	120.096	101.646	59.299	0.00	0.00
ATOM	14273	HA	PRO	947	119.566	102.023	58.425	0.00	0.00
ATOM	14274	C	PRO	947	121.588	101.758	58.968	0.00	0.00
ATOM	14275	O	PRO	947	122.377	101.214	59.735	0.00	0.00
ATOM	14276	N	GLY	948	121.987	102.417	57.864	0.00	0.00
ATOM	14277	H	GLY	948	121.330	102.897	57.266	0.00	0.00
ATOM	14278	CA	GLY	948	123.362	102.553	57.497	0.00	0.00
ATOM	14279	HA2	GLY	948	123.419	103.397	56.810	0.00	0.00
ATOM	14280	HA3	GLY	948	124.036	102.749	58.331	0.00	0.00
ATOM	14281	C	GLY	948	123.991	101.452	56.701	0.00	0.00
ATOM	14282	O	GLY	948	125.206	101.427	56.487	0.00	0.00
ATOM	14283	N	GLN	949	123.261	100.405	56.297	0.00	0.00
ATOM	14284	H	GLN	949	122.318	100.341	56.653	0.00	0.00
ATOM	14285	CA	GLN	949	123.820	99.151	55.804	0.00	0.00
ATOM	14286	HA	GLN	949	124.835	99.030	56.182	0.00	0.00
ATOM	14287	CB	GLN	949	123.038	97.967	56.379	0.00	0.00
ATOM	14288	HB2	GLN	949	122.761	98.209	57.405	0.00	0.00
ATOM	14289	HB3	GLN	949	122.101	97.775	55.858	0.00	0.00
ATOM	14290	CG	GLN	949	123.897	96.640	56.320	0.00	0.00
ATOM	14291	HG2	GLN	949	123.705	96.215	55.335	0.00	0.00
ATOM	14292	HG3	GLN	949	124.967	96.840	56.374	0.00	0.00
ATOM	14293	CD	GLN	949	123.416	95.832	57.488	0.00	0.00
ATOM	14294	OE1	GLN	949	122.221	95.348	57.430	0.00	0.00
ATOM	14295	NE2	GLN	949	124.134	95.708	58.601	0.00	0.00
ATOM	14296	1HE2	GLN	949	123.744	95.057	59.267	0.00	0.00

ATOM 14297 2HE2 GLN 949 125.082 96.039 58.707 0.00 0.00  
ATOM 14298 C GLN 949 123.841 99.137 54.263 0.00 0.00  
ATOM 14299 O GLN 949 122.764 99.469 53.654 0.00 0.00  
ATOM 14300 N LYS 950 124.928 98.801 53.575 0.00 0.00  
ATOM 14301 H LYS 950 125.767 98.569 54.087 0.00 0.00  
ATOM 14302 CA LYS 950 124.967 98.615 52.110 0.00 0.00  
ATOM 14303 HA LYS 950 124.016 98.845 51.629 0.00 0.00  
ATOM 14304 CB LYS 950 126.053 99.665 51.549 0.00 0.00  
ATOM 14305 HB2 LYS 950 125.805 100.653 51.936 0.00 0.00  
ATOM 14306 HB3 LYS 950 127.027 99.445 51.987 0.00 0.00  
ATOM 14307 CG LYS 950 126.264 99.540 49.997 0.00 0.00  
ATOM 14308 HG2 LYS 950 126.524 98.502 49.791 0.00 0.00  
ATOM 14309 HG3 LYS 950 125.301 99.694 49.511 0.00 0.00  
ATOM 14310 CD LYS 950 127.257 100.525 49.532 0.00 0.00  
ATOM 14311 HD2 LYS 950 128.198 100.352 50.054 0.00 0.00  
ATOM 14312 HD3 LYS 950 127.469 100.354 48.476 0.00 0.00  
ATOM 14313 CE LYS 950 126.846 102.008 49.763 0.00 0.00  
ATOM 14314 HE2 LYS 950 125.878 102.129 49.277 0.00 0.00  
ATOM 14315 HE3 LYS 950 126.789 102.177 50.838 0.00 0.00  
ATOM 14316 NZ LYS 950 127.856 103.005 49.222 0.00 0.00  
ATOM 14317 HZ1 LYS 950 128.168 102.725 48.303 0.00 0.00  
ATOM 14318 HZ2 LYS 950 127.453 103.901 48.990 0.00 0.00  
ATOM 14319 HZ3 LYS 950 128.740 103.149 49.688 0.00 0.00  
ATOM 14320 C LYS 950 125.150 97.146 51.629 0.00 0.00  
ATOM 14321 O LYS 950 125.976 96.412 52.143 0.00 0.00  
ATOM 14322 N ARG 951 124.385 96.674 50.578 0.00 0.00

ATOM 14323 H ARG 951 123.917 97.400 50.056 0.00 0.00  
ATOM 14324 CA ARG 951 124.441 95.411 49.809 0.00 0.00  
ATOM 14325 HA ARG 951 125.376 94.879 49.983 0.00 0.00  
ATOM 14326 CB ARG 951 123.273 94.441 50.241 0.00 0.00  
ATOM 14327 HB2 ARG 951 122.383 94.817 49.736 0.00 0.00  
ATOM 14328 HB3 ARG 951 123.607 93.454 49.922 0.00 0.00  
ATOM 14329 CG ARG 951 123.077 94.384 51.804 0.00 0.00  
ATOM 14330 HG2 ARG 951 123.969 94.078 52.352 0.00 0.00  
ATOM 14331 HG3 ARG 951 122.699 95.353 52.130 0.00 0.00  
ATOM 14332 CD ARG 951 121.958 93.347 52.149 0.00 0.00  
ATOM 14333 HD2 ARG 951 121.021 93.720 51.736 0.00 0.00  
ATOM 14334 HD3 ARG 951 122.247 92.357 51.796 0.00 0.00  
ATOM 14335 NE ARG 951 121.777 93.314 53.604 0.00 0.00  
ATOM 14336 HE ARG 951 120.856 93.625 53.876 0.00 0.00  
ATOM 14337 CZ ARG 951 122.551 92.802 54.515 0.00 0.00  
ATOM 14338 NH1 ARG 951 122.199 92.827 55.740 0.00 0.00  
ATOM 14339 1HH1 ARG 951 122.884 92.524 56.417 0.00 0.00  
ATOM 14340 2HH1 ARG 951 121.265 93.142 55.962 0.00 0.00  
ATOM 14341 NH2 ARG 951 123.742 92.272 54.311 0.00 0.00  
ATOM 14342 1HH2 ARG 951 124.238 92.065 55.166 0.00 0.00  
ATOM 14343 2HH2 ARG 951 124.235 92.228 53.430 0.00 0.00  
ATOM 14344 C ARG 951 124.416 95.742 48.251 0.00 0.00  
ATOM 14345 O ARG 951 123.970 96.802 47.819 0.00 0.00  
ATOM 14346 N GLU 952 124.721 94.850 47.400 0.00 0.00  
ATOM 14347 H GLU 952 125.077 94.040 47.887 0.00 0.00  
ATOM 14348 CA GLU 952 124.238 94.656 46.071 0.00 0.00

ATOM	14349	HA	GLU	952	123.703	95.533	45.705	0.00	0.00
ATOM	14350	CB	GLU	952	125.469	94.524	45.224	0.00	0.00
ATOM	14351	HB2	GLU	952	126.116	95.367	45.467	0.00	0.00
ATOM	14352	HB3	GLU	952	125.989	93.609	45.506	0.00	0.00
ATOM	14353	CG	GLU	952	125.278	94.546	43.668	0.00	0.00
ATOM	14354	HG2	GLU	952	124.453	93.871	43.441	0.00	0.00
ATOM	14355	HG3	GLU	952	124.877	95.512	43.361	0.00	0.00
ATOM	14356	CD	GLU	952	126.516	94.238	42.889	0.00	0.00
ATOM	14357	OE1	GLU	952	127.230	95.169	42.353	0.00	0.00
ATOM	14358	OE2	GLU	952	126.818	93.074	42.663	0.00	0.00
ATOM	14359	C	GLU	952	123.360	93.433	46.120	0.00	0.00
ATOM	14360	O	GLU	952	123.516	92.584	47.058	0.00	0.00
ATOM	14361	N	VAL	953	122.396	93.495	45.234	0.00	0.00
ATOM	14362	H	VAL	953	122.223	94.353	44.729	0.00	0.00
ATOM	14363	CA	VAL	953	121.246	92.486	45.240	0.00	0.00
ATOM	14364	HA	VAL	953	121.670	91.598	45.709	0.00	0.00
ATOM	14365	CB	VAL	953	119.991	92.878	46.069	0.00	0.00
ATOM	14366	HB	VAL	953	119.374	91.984	46.154	0.00	0.00
ATOM	14367	CG1	VAL	953	120.289	93.414	47.460	0.00	0.00
ATOM	14368	1HG1	VAL	953	119.366	93.564	48.021	0.00	0.00
ATOM	14369	2HG1	VAL	953	120.875	92.623	47.928	0.00	0.00
ATOM	14370	3HG1	VAL	953	120.772	94.381	47.323	0.00	0.00
ATOM	14371	CG2	VAL	953	119.243	93.979	45.445	0.00	0.00
ATOM	14372	1HG2	VAL	953	119.915	94.836	45.404	0.00	0.00
ATOM	14373	2HG2	VAL	953	118.896	93.672	44.458	0.00	0.00
ATOM	14374	3HG2	VAL	953	118.342	94.155	46.032	0.00	0.00

ATOM	14375	C	VAL	953	120.877	92.118	43.859	0.00	0.00
ATOM	14376	O	VAL	953	120.933	92.975	43.032	0.00	0.00
ATOM	14377	N	GLU	954	120.557	90.853	43.635	0.00	0.00
ATOM	14378	H	GLU	954	120.484	90.265	44.453	0.00	0.00
ATOM	14379	CA	GLU	954	120.074	90.253	42.394	0.00	0.00
ATOM	14380	HA	GLU	954	120.524	90.864	41.611	0.00	0.00
ATOM	14381	CB	GLU	954	120.817	88.952	42.066	0.00	0.00
ATOM	14382	HB2	GLU	954	121.864	89.217	42.216	0.00	0.00
ATOM	14383	HB3	GLU	954	120.457	88.211	42.779	0.00	0.00
ATOM	14384	CG	GLU	954	120.499	88.433	40.597	0.00	0.00
ATOM	14385	HG2	GLU	954	119.594	87.827	40.649	0.00	0.00
ATOM	14386	HG3	GLU	954	120.223	89.335	40.050	0.00	0.00
ATOM	14387	CD	GLU	954	121.587	87.629	39.980	0.00	0.00
ATOM	14388	OE1	GLU	954	122.694	88.158	39.759	0.00	0.00
ATOM	14389	OE2	GLU	954	121.334	86.444	39.671	0.00	0.00
ATOM	14390	C	GLU	954	118.553	90.243	42.259	0.00	0.00
ATOM	14391	O	GLU	954	117.800	89.905	43.196	0.00	0.00
ATOM	14392	N	LEU	955	118.096	90.565	41.080	0.00	0.00
ATOM	14393	H	LEU	955	118.694	91.100	40.467	0.00	0.00
ATOM	14394	CA	LEU	955	116.684	90.738	40.791	0.00	0.00
ATOM	14395	HA	LEU	955	116.042	90.354	41.583	0.00	0.00
ATOM	14396	CB	LEU	955	116.327	92.217	40.414	0.00	0.00
ATOM	14397	HB2	LEU	955	116.723	92.475	39.432	0.00	0.00
ATOM	14398	HB3	LEU	955	115.267	92.446	40.304	0.00	0.00
ATOM	14399	CG	LEU	955	116.860	93.322	41.447	0.00	0.00
ATOM	14400	HG	LEU	955	117.863	93.089	41.806	0.00	0.00

ATOM	14401	CD1	LEU	955	116.858	94.788	40.895	0.00	0.00
ATOM	14402	1HD1	LEU	955	115.870	95.059	40.523	0.00	0.00
ATOM	14403	2HD1	LEU	955	117.225	95.498	41.637	0.00	0.00
ATOM	14404	3HD1	LEU	955	117.571	94.867	40.075	0.00	0.00
ATOM	14405	CD2	LEU	955	116.020	93.366	42.677	0.00	0.00
ATOM	14406	1HD2	LEU	955	116.082	92.376	43.127	0.00	0.00
ATOM	14407	2HD2	LEU	955	116.373	94.101	43.400	0.00	0.00
ATOM	14408	3HD2	LEU	955	114.965	93.571	42.492	0.00	0.00
ATOM	14409	C	LEU	955	116.331	89.960	39.479	0.00	0.00
ATOM	14410	O	LEU	955	117.233	89.630	38.689	0.00	0.00
ATOM	14411	N	VAL	956	115.056	89.700	39.193	0.00	0.00
ATOM	14412	H	VAL	956	114.412	90.009	39.907	0.00	0.00
ATOM	14413	CA	VAL	956	114.415	88.992	38.059	0.00	0.00
ATOM	14414	HA	VAL	956	115.074	89.059	37.193	0.00	0.00
ATOM	14415	CB	VAL	956	114.226	87.456	38.273	0.00	0.00
ATOM	14416	HB	VAL	956	115.216	87.125	38.585	0.00	0.00
ATOM	14417	CG1	VAL	956	113.255	86.901	39.429	0.00	0.00
ATOM	14418	1HG1	VAL	956	113.475	85.888	39.766	0.00	0.00
ATOM	14419	2HG1	VAL	956	112.967	87.539	40.265	0.00	0.00
ATOM	14420	3HG1	VAL	956	112.303	86.811	38.907	0.00	0.00
ATOM	14421	CG2	VAL	956	113.908	86.815	36.902	0.00	0.00
ATOM	14422	1HG2	VAL	956	113.888	85.730	37.002	0.00	0.00
ATOM	14423	2HG2	VAL	956	112.927	87.051	36.490	0.00	0.00
ATOM	14424	3HG2	VAL	956	114.655	87.006	36.132	0.00	0.00
ATOM	14425	C	VAL	956	113.051	89.699	37.675	0.00	0.00
ATOM	14426	O	VAL	956	112.305	90.166	38.467	0.00	0.00

ATOM	14427	N	ALA	957	112.811	89.805	36.344	0.00	0.00
ATOM	14428	H	ALA	957	113.434	89.452	35.632	0.00	0.00
ATOM	14429	CA	ALA	957	111.627	90.527	35.798	0.00	0.00
ATOM	14430	HA	ALA	957	111.628	91.427	36.412	0.00	0.00
ATOM	14431	CB	ALA	957	111.833	90.819	34.326	0.00	0.00
ATOM	14432	HB1	ALA	957	112.267	89.940	33.850	0.00	0.00
ATOM	14433	HB2	ALA	957	110.866	90.907	33.830	0.00	0.00
ATOM	14434	HB3	ALA	957	112.336	91.733	34.011	0.00	0.00
ATOM	14435	C	ALA	957	110.352	89.787	36.045	0.00	0.00
ATOM	14436	O	ALA	957	110.258	88.562	35.960	0.00	0.00
ATOM	14437	N	PHE	958	109.253	90.498	36.395	0.00	0.00
ATOM	14438	H	PHE	958	109.338	91.504	36.413	0.00	0.00
ATOM	14439	CA	PHE	958	107.817	89.901	36.545	0.00	0.00
ATOM	14440	HA	PHE	958	107.731	89.079	37.256	0.00	0.00
ATOM	14441	CB	PHE	958	106.908	91.000	37.037	0.00	0.00
ATOM	14442	HB2	PHE	958	107.137	91.945	36.544	0.00	0.00
ATOM	14443	HB3	PHE	958	105.946	90.700	36.621	0.00	0.00
ATOM	14444	CG	PHE	958	106.779	91.201	38.489	0.00	0.00
ATOM	14445	CD1	PHE	958	105.880	90.468	39.402	0.00	0.00
ATOM	14446	HD1	PHE	958	105.259	89.698	38.969	0.00	0.00
ATOM	14447	CE1	PHE	958	105.869	90.728	40.751	0.00	0.00
ATOM	14448	HE1	PHE	958	105.309	90.123	41.448	0.00	0.00
ATOM	14449	CZ	PHE	958	106.746	91.712	41.314	0.00	0.00
ATOM	14450	HZ	PHE	958	106.754	91.826	42.388	0.00	0.00
ATOM	14451	CE2	PHE	958	107.613	92.395	40.488	0.00	0.00
ATOM	14452	HE2	PHE	958	108.309	93.083	40.945	0.00	0.00

ATOM	14453	CD2	PHE	958	107.590	92.207	39.026	0.00	0.00
ATOM	14454	HD2	PHE	958	108.262	92.765	38.391	0.00	0.00
ATOM	14455	C	PHE	958	107.409	89.445	35.079	0.00	0.00
ATOM	14456	O	PHE	958	107.772	90.176	34.137	0.00	0.00
ATOM	14457	N	ALA	959	106.842	88.241	34.954	0.00	0.00
ATOM	14458	H	ALA	959	106.556	87.731	35.778	0.00	0.00
ATOM	14459	CA	ALA	959	106.617	87.572	33.697	0.00	0.00
ATOM	14460	HA	ALA	959	107.540	87.601	33.118	0.00	0.00
ATOM	14461	CB	ALA	959	106.253	86.113	33.939	0.00	0.00
ATOM	14462	HB1	ALA	959	105.387	86.015	34.594	0.00	0.00
ATOM	14463	HB2	ALA	959	105.991	85.611	33.008	0.00	0.00
ATOM	14464	HB3	ALA	959	107.047	85.572	34.453	0.00	0.00
ATOM	14465	C	ALA	959	105.480	88.282	32.862	0.00	0.00
ATOM	14466	O	ALA	959	104.535	88.888	33.381	0.00	0.00
ATOM	14467	N	GLY	960	105.657	88.382	31.524	0.00	0.00
ATOM	14468	H	GLY	960	106.411	87.871	31.087	0.00	0.00
ATOM	14469	CA	GLY	960	104.880	89.161	30.651	0.00	0.00
ATOM	14470	HA2	GLY	960	104.748	88.529	29.772	0.00	0.00
ATOM	14471	HA3	GLY	960	103.931	89.423	31.118	0.00	0.00
ATOM	14472	C	GLY	960	105.717	90.440	30.212	0.00	0.00
ATOM	14473	O	GLY	960	106.952	90.460	30.183	0.00	0.00
ATOM	14474	N	HIE	961	105.104	91.575	29.957	0.00	0.00
ATOM	14475	H	HIE	961	104.122	91.561	30.191	0.00	0.00
ATOM	14476	CA	HIE	961	105.827	92.846	29.534	0.00	0.00
ATOM	14477	HA	HIE	961	106.783	92.570	29.087	0.00	0.00
ATOM	14478	CB	HIE	961	104.988	93.577	28.462	0.00	0.00



ATOM 14479 HB2 HIE 961 105.503 94.453 28.068 0.00 0.00  
ATOM 14480 HB3 HIE 961 104.919 92.949 27.573 0.00 0.00  
ATOM 14481 CG HIE 961 103.626 94.083 28.846 0.00 0.00  
ATOM 14482 ND1 HIE 961 102.894 94.983 28.200 0.00 0.00  
ATOM 14483 CE1 HIE 961 101.731 95.158 28.908 0.00 0.00  
ATOM 14484 HE1 HIE 961 100.880 95.717 28.548 0.00 0.00  
ATOM 14485 NE2 HIE 961 101.776 94.446 30.034 0.00 0.00  
ATOM 14486 HE2 HIE 961 101.011 94.366 30.689 0.00 0.00  
ATOM 14487 CD2 HIE 961 102.928 93.719 29.998 0.00 0.00  
ATOM 14488 HD2 HIE 961 103.290 93.044 30.759 0.00 0.00  
ATOM 14489 C HIE 961 106.170 93.804 30.689 0.00 0.00  
ATOM 14490 O HIE 961 106.597 94.907 30.413 0.00 0.00  
ATOM 14491 N ARG 962 106.025 93.315 31.921 0.00 0.00  
ATOM 14492 H ARG 962 105.547 92.433 32.040 0.00 0.00  
ATOM 14493 CA ARG 962 106.451 93.797 33.213 0.00 0.00  
ATOM 14494 HA ARG 962 105.938 93.211 33.975 0.00 0.00  
ATOM 14495 CB ARG 962 107.894 93.494 33.591 0.00 0.00  
ATOM 14496 HB2 ARG 962 108.042 93.466 34.671 0.00 0.00  
ATOM 14497 HB3 ARG 962 108.128 92.456 33.352 0.00 0.00  
ATOM 14498 CG ARG 962 108.996 94.472 33.039 0.00 0.00  
ATOM 14499 HG2 ARG 962 108.909 94.256 31.974 0.00 0.00  
ATOM 14500 HG3 ARG 962 108.742 95.496 33.314 0.00 0.00  
ATOM 14501 CD ARG 962 110.476 94.104 33.412 0.00 0.00  
ATOM 14502 HD2 ARG 962 110.569 94.059 34.497 0.00 0.00  
ATOM 14503 HD3 ARG 962 110.769 93.132 33.016 0.00 0.00  
ATOM 14504 NE ARG 962 111.328 95.260 33.034 0.00 0.00

ATOM 14505 HE ARG 962 111.632 95.944 33.711 0.00 0.00  
ATOM 14506 CZ ARG 962 112.187 95.230 32.067 0.00 0.00  
ATOM 14507 NH1 ARG 962 112.160 94.337 31.066 0.00 0.00  
ATOM 14508 1HH1 ARG 962 112.597 94.596 30.193 0.00 0.00  
ATOM 14509 2HH1 ARG 962 111.429 93.642 31.100 0.00 0.00  
ATOM 14510 NH2 ARG 962 113.058 96.224 32.013 0.00 0.00  
ATOM 14511 1HH2 ARG 962 113.618 96.301 31.176 0.00 0.00  
ATOM 14512 2HH2 ARG 962 113.143 96.909 32.751 0.00 0.00  
ATOM 14513 C ARG 962 105.969 95.162 33.683 0.00 0.00  
ATOM 14514 O ARG 962 106.337 95.570 34.786 0.00 0.00  
ATOM 14515 N ALA 963 105.123 95.750 32.854 0.00 0.00  
ATOM 14516 H ALA 963 105.086 95.389 31.912 0.00 0.00  
ATOM 14517 CA ALA 963 104.374 96.955 33.303 0.00 0.00  
ATOM 14518 HA ALA 963 105.103 97.628 33.755 0.00 0.00  
ATOM 14519 CB ALA 963 103.617 97.448 31.994 0.00 0.00  
ATOM 14520 HB1 ALA 963 102.766 96.812 31.752 0.00 0.00  
ATOM 14521 HB2 ALA 963 103.358 98.501 32.107 0.00 0.00  
ATOM 14522 HB3 ALA 963 104.352 97.441 31.190 0.00 0.00  
ATOM 14523 C ALA 963 103.422 96.551 34.442 0.00 0.00  
ATOM 14524 O ALA 963 102.520 95.724 34.257 0.00 0.00  
ATOM 14525 N VAL 964 103.542 97.302 35.520 0.00 0.00  
ATOM 14526 H VAL 964 104.099 98.143 35.486 0.00 0.00  
ATOM 14527 CA VAL 964 102.880 97.011 36.806 0.00 0.00  
ATOM 14528 HA VAL 964 102.126 96.237 36.658 0.00 0.00  
ATOM 14529 CB VAL 964 103.800 96.373 37.815 0.00 0.00  
ATOM 14530 HB VAL 964 103.194 96.363 38.721 0.00 0.00

ATOM	14531	CG1	VAL	964	104.179	94.946	37.584	0.00	0.00
ATOM	14532	1HG1	VAL	964	104.637	94.756	36.614	0.00	0.00
ATOM	14533	2HG1	VAL	964	104.827	94.629	38.401	0.00	0.00
ATOM	14534	3HG1	VAL	964	103.332	94.263	37.644	0.00	0.00
ATOM	14535	CG2	VAL	964	105.093	97.126	38.161	0.00	0.00
ATOM	14536	1HG2	VAL	964	105.684	96.700	38.971	0.00	0.00
ATOM	14537	2HG2	VAL	964	105.816	97.127	37.345	0.00	0.00
ATOM	14538	3HG2	VAL	964	105.022	98.198	38.348	0.00	0.00
ATOM	14539	C	VAL	964	102.123	98.160	37.345	0.00	0.00
ATOM	14540	O	VAL	964	102.242	99.249	36.777	0.00	0.00
ATOM	14541	N	PHE	965	101.337	97.821	38.408	0.00	0.00
ATOM	14542	H	PHE	965	101.303	96.854	38.699	0.00	0.00
ATOM	14543	CA	PHE	965	100.620	98.753	39.289	0.00	0.00
ATOM	14544	HA	PHE	965	101.310	99.588	39.411	0.00	0.00
ATOM	14545	CB	PHE	965	99.309	99.330	38.640	0.00	0.00
ATOM	14546	HB2	PHE	965	99.556	99.539	37.599	0.00	0.00
ATOM	14547	HB3	PHE	965	98.628	98.487	38.530	0.00	0.00
ATOM	14548	CG	PHE	965	98.647	100.574	39.323	0.00	0.00
ATOM	14549	CD1	PHE	965	99.393	101.753	39.654	0.00	0.00
ATOM	14550	HD1	PHE	965	100.437	101.852	39.397	0.00	0.00
ATOM	14551	CE1	PHE	965	98.775	102.804	40.378	0.00	0.00
ATOM	14552	HE1	PHE	965	99.371	103.628	40.742	0.00	0.00
ATOM	14553	CZ	PHE	965	97.457	102.685	40.806	0.00	0.00
ATOM	14554	HZ	PHE	965	97.096	103.497	41.420	0.00	0.00
ATOM	14555	CE2	PHE	965	96.687	101.544	40.499	0.00	0.00
ATOM	14556	HE2	PHE	965	95.626	101.554	40.704	0.00	0.00

ATOM 14557 CD2 PHE 965 97.325 100.503 39.809 0.00 0.00  
ATOM 14558 HD2 PHE 965 96.665 99.658 39.678 0.00 0.00  
ATOM 14559 C PHE 965 100.400 98.109 40.641 0.00 0.00  
ATOM 14560 O PHE 965 101.041 97.048 40.881 0.00 0.00  
ATOM 14561 N GLY 966 99.665 98.697 41.602 0.00 0.00  
ATOM 14562 H GLY 966 99.065 99.482 41.396 0.00 0.00  
ATOM 14563 CA GLY 966 99.796 98.366 43.025 0.00 0.00  
ATOM 14564 HA2 GLY 966 98.979 98.788 43.611 0.00 0.00  
ATOM 14565 HA3 GLY 966 99.796 97.282 43.140 0.00 0.00  
ATOM 14566 C GLY 966 101.051 98.945 43.613 0.00 0.00  
ATOM 14567 O GLY 966 101.671 99.831 43.007 0.00 0.00  
ATOM 14568 N PHE 967 101.567 98.297 44.650 0.00 0.00  
ATOM 14569 H PHE 967 101.034 97.515 45.002 0.00 0.00  
ATOM 14570 CA PHE 967 102.808 98.743 45.313 0.00 0.00  
ATOM 14571 HA PHE 967 102.829 98.114 46.203 0.00 0.00  
ATOM 14572 CB PHE 967 104.032 98.333 44.460 0.00 0.00  
ATOM 14573 HB2 PHE 967 104.037 98.996 43.594 0.00 0.00  
ATOM 14574 HB3 PHE 967 104.901 98.488 45.098 0.00 0.00  
ATOM 14575 CG PHE 967 104.137 96.930 43.886 0.00 0.00  
ATOM 14576 CD1 PHE 967 103.829 96.792 42.555 0.00 0.00  
ATOM 14577 HD1 PHE 967 103.598 97.669 41.968 0.00 0.00  
ATOM 14578 CE1 PHE 967 103.844 95.571 41.861 0.00 0.00  
ATOM 14579 HE1 PHE 967 103.521 95.488 40.834 0.00 0.00  
ATOM 14580 CZ PHE 967 104.372 94.434 42.589 0.00 0.00  
ATOM 14581 HZ PHE 967 104.585 93.470 42.151 0.00 0.00  
ATOM 14582 CE2 PHE 967 104.697 94.579 43.936 0.00 0.00

ATOM	14583	HE2	PHE	967	105.101	93.728	44.465	0.00	0.00
ATOM	14584	CD2	PHE	967	104.557	95.798	44.612	0.00	0.00
ATOM	14585	HD2	PHE	967	104.652	95.909	45.682	0.00	0.00
ATOM	14586	C	PHE	967	102.694	100.170	45.884	0.00	0.00
ATOM	14587	O	PHE	967	101.859	100.499	46.769	0.00	0.00
ATOM	14588	N	ARG	968	103.660	101.070	45.550	0.00	0.00
ATOM	14589	H	ARG	968	104.332	100.841	44.831	0.00	0.00
ATOM	14590	CA	ARG	968	103.600	102.517	45.868	0.00	0.00
ATOM	14591	HA	ARG	968	103.058	102.749	46.785	0.00	0.00
ATOM	14592	CB	ARG	968	104.881	103.023	46.449	0.00	0.00
ATOM	14593	HB2	ARG	968	105.507	103.144	45.565	0.00	0.00
ATOM	14594	HB3	ARG	968	104.665	104.050	46.744	0.00	0.00
ATOM	14595	CG	ARG	968	105.642	102.200	47.518	0.00	0.00
ATOM	14596	HG2	ARG	968	105.023	102.337	48.405	0.00	0.00
ATOM	14597	HG3	ARG	968	105.759	101.134	47.320	0.00	0.00
ATOM	14598	CD	ARG	968	107.015	102.894	47.680	0.00	0.00
ATOM	14599	HD2	ARG	968	107.551	102.460	48.524	0.00	0.00
ATOM	14600	HD3	ARG	968	107.609	102.716	46.784	0.00	0.00
ATOM	14601	NE	ARG	968	106.937	104.390	47.813	0.00	0.00
ATOM	14602	HE	ARG	968	107.240	104.969	47.044	0.00	0.00
ATOM	14603	CZ	ARG	968	106.722	104.981	48.990	0.00	0.00
ATOM	14604	NH1	ARG	968	106.618	106.285	48.910	0.00	0.00
ATOM	14605	1HH1	ARG	968	106.722	106.879	49.721	0.00	0.00
ATOM	14606	2HH1	ARG	968	106.697	106.687	47.987	0.00	0.00
ATOM	14607	NH2	ARG	968	106.504	104.411	50.124	0.00	0.00
ATOM	14608	1HH2	ARG	968	106.184	105.008	50.873	0.00	0.00

ATOM 14609 2HH2 ARG 968 106.430 103.408 50.217 0.00 0.00  
ATOM 14610 C ARG 968 103.031 103.473 44.828 0.00 0.00  
ATOM 14611 O ARG 968 102.700 104.618 45.127 0.00 0.00  
ATOM 14612 N GLY 969 103.001 102.980 43.592 0.00 0.00  
ATOM 14613 H GLY 969 103.392 102.064 43.422 0.00 0.00  
ATOM 14614 CA GLY 969 102.258 103.662 42.552 0.00 0.00  
ATOM 14615 HA2 GLY 969 101.726 102.915 41.963 0.00 0.00  
ATOM 14616 HA3 GLY 969 101.485 104.236 43.064 0.00 0.00  
ATOM 14617 C GLY 969 103.152 104.579 41.696 0.00 0.00  
ATOM 14618 O GLY 969 102.656 105.521 41.153 0.00 0.00  
ATOM 14619 N GLU 970 104.436 104.388 41.702 0.00 0.00  
ATOM 14620 H GLU 970 104.751 103.604 42.255 0.00 0.00  
ATOM 14621 CA GLU 970 105.548 105.408 41.576 0.00 0.00  
ATOM 14622 HA GLU 970 104.997 106.345 41.497 0.00 0.00  
ATOM 14623 CB GLU 970 106.483 105.275 42.753 0.00 0.00  
ATOM 14624 HB2 GLU 970 106.655 104.233 43.020 0.00 0.00  
ATOM 14625 HB3 GLU 970 107.419 105.776 42.502 0.00 0.00  
ATOM 14626 CG GLU 970 105.840 105.939 44.018 0.00 0.00  
ATOM 14627 HG2 GLU 970 105.700 106.955 43.648 0.00 0.00  
ATOM 14628 HG3 GLU 970 104.879 105.496 44.278 0.00 0.00  
ATOM 14629 CD GLU 970 106.837 106.126 45.160 0.00 0.00  
ATOM 14630 OE1 GLU 970 106.637 106.955 46.070 0.00 0.00  
ATOM 14631 OE2 GLU 970 107.830 105.370 45.260 0.00 0.00  
ATOM 14632 C GLU 970 106.307 105.165 40.266 0.00 0.00  
ATOM 14633 O GLU 970 106.534 106.067 39.491 0.00 0.00  
ATOM 14634 N VAL 971 106.760 103.902 40.032 0.00 0.00

ATOM 14635 H VAL 971 106.507 103.124 40.623 0.00 0.00  
ATOM 14636 CA VAL 971 107.613 103.593 38.919 0.00 0.00  
ATOM 14637 HA VAL 971 107.876 104.498 38.370 0.00 0.00  
ATOM 14638 CB VAL 971 108.921 102.950 39.428 0.00 0.00  
ATOM 14639 HB VAL 971 108.562 101.982 39.777 0.00 0.00  
ATOM 14640 CG1 VAL 971 109.910 102.715 38.214 0.00 0.00  
ATOM 14641 1HG1 VAL 971 110.591 103.565 38.177 0.00 0.00  
ATOM 14642 2HG1 VAL 971 110.474 101.788 38.315 0.00 0.00  
ATOM 14643 3HG1 VAL 971 109.377 102.701 37.263 0.00 0.00  
ATOM 14644 CG2 VAL 971 109.598 103.588 40.639 0.00 0.00  
ATOM 14645 1HG2 VAL 971 109.341 103.149 41.603 0.00 0.00  
ATOM 14646 2HG2 VAL 971 110.679 103.511 40.523 0.00 0.00  
ATOM 14647 3HG2 VAL 971 109.322 104.642 40.642 0.00 0.00  
ATOM 14648 C VAL 971 106.910 102.702 37.901 0.00 0.00  
ATOM 14649 O VAL 971 107.040 102.972 36.705 0.00 0.00  
ATOM 14650 N MET 972 106.033 101.766 38.299 0.00 0.00  
ATOM 14651 H MET 972 105.963 101.682 39.303 0.00 0.00  
ATOM 14652 CA MET 972 105.066 101.043 37.418 0.00 0.00  
ATOM 14653 HA MET 972 104.515 100.373 38.079 0.00 0.00  
ATOM 14654 CB MET 972 103.950 102.017 37.010 0.00 0.00  
ATOM 14655 HB2 MET 972 104.347 102.774 36.333 0.00 0.00  
ATOM 14656 HB3 MET 972 103.153 101.530 36.448 0.00 0.00  
ATOM 14657 CG MET 972 103.354 102.779 38.181 0.00 0.00  
ATOM 14658 HG2 MET 972 102.611 102.101 38.601 0.00 0.00  
ATOM 14659 HG3 MET 972 104.001 102.991 39.031 0.00 0.00  
ATOM 14660 SD MET 972 102.692 104.397 37.939 0.00 0.00

ATOM 14661 CE MET 972 101.191 103.834 37.187 0.00 0.00  
ATOM 14662 HE1 MET 972 100.749 104.688 36.674 0.00 0.00  
ATOM 14663 HE2 MET 972 101.427 103.033 36.487 0.00 0.00  
ATOM 14664 HE3 MET 972 100.439 103.571 37.931 0.00 0.00  
ATOM 14665 C MET 972 105.741 100.185 36.365 0.00 0.00  
ATOM 14666 O MET 972 105.028 99.605 35.545 0.00 0.00  
ATOM 14667 N GLY 973 107.000 99.755 36.498 0.00 0.00  
ATOM 14668 H GLY 973 107.553 100.177 37.230 0.00 0.00  
ATOM 14669 CA GLY 973 107.658 99.062 35.431 0.00 0.00  
ATOM 14670 HA2 GLY 973 108.655 98.769 35.759 0.00 0.00  
ATOM 14671 HA3 GLY 973 107.126 98.144 35.182 0.00 0.00  
ATOM 14672 C GLY 973 107.820 99.913 34.208 0.00 0.00  
ATOM 14673 O GLY 973 107.954 101.109 34.390 0.00 0.00  
ATOM 14674 N PRO 974 107.890 99.385 33.010 0.00 0.00  
ATOM 14675 CD PRO 974 108.239 98.023 32.695 0.00 0.00  
ATOM 14676 HD2 PRO 974 109.110 97.715 33.273 0.00 0.00  
ATOM 14677 HD3 PRO 974 107.460 97.323 32.996 0.00 0.00  
ATOM 14678 CG PRO 974 108.482 97.893 31.178 0.00 0.00  
ATOM 14679 HG2 PRO 974 109.468 97.462 31.008 0.00 0.00  
ATOM 14680 HG3 PRO 974 107.715 97.246 30.751 0.00 0.00  
ATOM 14681 CB PRO 974 108.466 99.254 30.626 0.00 0.00  
ATOM 14682 HB2 PRO 974 109.460 99.543 30.285 0.00 0.00  
ATOM 14683 HB3 PRO 974 107.803 99.324 29.764 0.00 0.00  
ATOM 14684 CA PRO 974 108.098 100.175 31.801 0.00 0.00  
ATOM 14685 HA PRO 974 108.866 100.897 32.079 0.00 0.00  
ATOM 14686 C PRO 974 106.940 100.945 31.326 0.00 0.00



ATOM	14687	O	PRO	974	105.843	100.849	31.869	0.00	0.00
ATOM	14688	N	LEC	975	107.177	101.874	30.336	0.00	0.00
ATOM	14689	H	LEC	975	108.096	101.947	29.922	0.00	0.00
ATOM	14690	CA	LEC	975	106.199	102.676	29.530	0.00	0.00
ATOM	14691	HA	LEC	975	105.353	102.919	30.173	0.00	0.00
ATOM	14692	CB	LEC	975	106.921	103.945	29.252	0.00	0.00
ATOM	14693	HB2	LEC	975	107.189	104.361	30.223	0.00	0.00
ATOM	14694	HB3	LEC	975	107.823	103.762	28.669	0.00	0.00
ATOM	14695	CG	LEC	975	106.131	105.005	28.498	0.00	0.00
ATOM	14696	HG	LEC	975	105.797	104.568	27.557	0.00	0.00
ATOM	14697	CD1	LEC	975	104.909	105.483	29.304	0.00	0.00
ATOM	14698	1HD1	LEC	975	104.370	106.172	28.654	0.00	0.00
ATOM	14699	2HD1	LEC	975	104.260	104.621	29.462	0.00	0.00
ATOM	14700	3HD1	LEC	975	105.100	105.964	30.263	0.00	0.00
ATOM	14701	CD2	LEC	975	107.041	106.168	28.198	0.00	0.00
ATOM	14702	1HD2	LEC	975	107.453	106.471	29.161	0.00	0.00
ATOM	14703	2HD2	LEC	975	107.870	105.930	27.532	0.00	0.00
ATOM	14704	3HD2	LEC	975	106.490	107.047	27.863	0.00	0.00
ATOM	14705	C	LEC	975	105.782	101.929	28.293	0.00	0.00
ATOM	14706	O	LEC	975	106.649	101.513	27.459	0.00	0.00
ATOM	14707	OXT	LEC	975	104.562	101.838	28.081	0.00	0.00
ATOM	14708	N	SEN	976	119.583	81.590	40.296	0.00	0.00
ATOM	14709	H1	SEN	976	118.811	82.239	40.341	0.00	0.00
ATOM	14710	H2	SEN	976	119.259	80.830	39.715	0.00	0.00
ATOM	14711	H3	SEN	976	120.471	81.900	39.927	0.00	0.00
ATOM	14712	CA	SEN	976	119.622	81.170	41.672	0.00	0.00

ATOM	14713	HA	SEN	976	120.671	81.155	41.965	0.00	0.00
ATOM	14714	CB	SEN	976	118.881	82.143	42.631	0.00	0.00
ATOM	14715	HB2	SEN	976	118.768	81.620	43.581	0.00	0.00
ATOM	14716	HB3	SEN	976	119.510	83.027	42.738	0.00	0.00
ATOM	14717	OG	SEN	976	117.646	82.508	42.065	0.00	0.00
ATOM	14718	HG	SEN	976	117.414	83.320	42.521	0.00	0.00
ATOM	14719	C	SEN	976	118.962	79.824	41.745	0.00	0.00
ATOM	14720	O	SEN	976	117.881	79.521	41.252	0.00	0.00
ATOM	14721	N	ASN	977	119.593	78.885	42.516	0.00	0.00
ATOM	14722	H	ASN	977	120.440	79.259	42.920	0.00	0.00
ATOM	14723	CA	ASN	977	119.123	77.445	42.737	0.00	0.00
ATOM	14724	HA	ASN	977	118.051	77.401	42.546	0.00	0.00
ATOM	14725	CB	ASN	977	119.742	76.508	41.654	0.00	0.00
ATOM	14726	HB2	ASN	977	119.087	75.641	41.572	0.00	0.00
ATOM	14727	HB3	ASN	977	119.632	76.955	40.666	0.00	0.00
ATOM	14728	CG	ASN	977	121.187	76.127	42.080	0.00	0.00
ATOM	14729	OD1	ASN	977	121.431	75.266	42.934	0.00	0.00
ATOM	14730	ND2	ASN	977	122.210	76.664	41.550	0.00	0.00
ATOM	14731	1HD2	ASN	977	123.128	76.398	41.876	0.00	0.00
ATOM	14732	2HD2	ASN	977	122.006	77.224	40.734	0.00	0.00
ATOM	14733	C	ASN	977	119.302	77.164	44.299	0.00	0.00
ATOM	14734	O	ASN	977	120.330	77.546	44.921	0.00	0.00
ATOM	14735	N	ILE	978	118.326	76.453	44.901	0.00	0.00
ATOM	14736	H	ILE	978	117.570	76.236	44.267	0.00	0.00
ATOM	14737	CA	ILE	978	118.394	75.777	46.222	0.00	0.00
ATOM	14738	HA	ILE	978	119.372	75.952	46.671	0.00	0.00

ATOM 14739 CB ILE 978 117.356 76.385 47.151 0.00 0.00  
ATOM 14740 HB ILE 978 117.451 75.850 48.096 0.00 0.00  
ATOM 14741 CG2 ILE 978 117.524 77.811 47.566 0.00 0.00  
ATOM 14742 1HG2 ILE 978 117.499 78.462 46.692 0.00 0.00  
ATOM 14743 2HG2 ILE 978 116.858 78.133 48.366 0.00 0.00  
ATOM 14744 3HG2 ILE 978 118.534 77.949 47.954 0.00 0.00  
ATOM 14745 CG1 ILE 978 115.898 76.188 46.711 0.00 0.00  
ATOM 14746 2HG1 ILE 978 115.656 76.948 45.967 0.00 0.00  
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ATOM 14749 1HD1 ILE 978 114.929 77.225 48.456 0.00 0.00  
ATOM 14750 2HD1 ILE 978 113.921 76.068 47.614 0.00 0.00  
ATOM 14751 3HD1 ILE 978 115.166 75.545 48.686 0.00 0.00  
ATOM 14752 C ILE 978 118.258 74.251 46.072 0.00 0.00  
ATOM 14753 O ILE 978 117.845 73.800 44.982 0.00 0.00  
ATOM 14754 N SER 979 118.594 73.517 47.112 0.00 0.00  
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ATOM 14756 CA SER 979 118.329 72.059 47.085 0.00 0.00  
ATOM 14757 HA SER 979 118.717 71.619 46.167 0.00 0.00  
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ATOM 14759 HB2 SER 979 118.813 70.238 48.103 0.00 0.00  
ATOM 14760 HB3 SER 979 120.008 71.586 48.203 0.00 0.00  
ATOM 14761 OG SER 979 118.346 71.705 49.396 0.00 0.00  
ATOM 14762 HG SER 979 118.954 71.507 50.112 0.00 0.00  
ATOM 14763 C SER 979 116.885 71.663 47.053 0.00 0.00  
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ATOM 14788 O ARG 980 113.504 69.728 48.112 0.00 0.00  
ATOM 14789 N GLN 981 115.635 69.275 48.631 0.00 0.00  
ATOM 14790 H GLN 981 116.583 69.272 48.281 0.00 0.00

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ATOM	14792	HA	GLN	981	114.565	68.312	50.028	0.00	0.00
ATOM	14793	CB	GLN	981	116.517	68.161	50.627	0.00	0.00
ATOM	14794	HB2	GLN	981	117.379	68.819	50.737	0.00	0.00
ATOM	14795	HB3	GLN	981	116.197	68.022	51.660	0.00	0.00
ATOM	14796	CG	GLN	981	116.912	66.863	49.938	0.00	0.00
ATOM	14797	HG2	GLN	981	117.404	66.224	50.671	0.00	0.00
ATOM	14798	HG3	GLN	981	116.057	66.376	49.468	0.00	0.00
ATOM	14799	CD	GLN	981	117.965	67.031	48.805	0.00	0.00
ATOM	14800	OE1	GLN	981	117.775	67.799	47.872	0.00	0.00
ATOM	14801	NE2	GLN	981	119.071	66.343	48.708	0.00	0.00
ATOM	14802	1HE2	GLN	981	119.703	66.574	47.955	0.00	0.00
ATOM	14803	2HE2	GLN	981	119.202	65.603	49.382	0.00	0.00
ATOM	14804	C	GLN	981	115.030	70.206	50.844	0.00	0.00
ATOM	14805	O	GLN	981	114.003	70.122	51.582	0.00	0.00
ATOM	14806	N	ALA	982	115.583	71.376	50.691	0.00	0.00
ATOM	14807	H	ALA	982	116.437	71.344	50.154	0.00	0.00
ATOM	14808	CA	ALA	982	115.058	72.564	51.351	0.00	0.00
ATOM	14809	HA	ALA	982	114.833	72.235	52.366	0.00	0.00
ATOM	14810	CB	ALA	982	116.255	73.614	51.462	0.00	0.00
ATOM	14811	HB1	ALA	982	115.988	74.558	51.938	0.00	0.00
ATOM	14812	HB2	ALA	982	116.987	73.066	52.055	0.00	0.00
ATOM	14813	HB3	ALA	982	116.641	73.865	50.474	0.00	0.00
ATOM	14814	C	ALA	982	113.783	73.043	50.710	0.00	0.00
ATOM	14815	O	ALA	982	112.842	73.384	51.467	0.00	0.00
ATOM	14816	N	TYR	983	113.624	73.045	49.375	0.00	0.00

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ATOM 14820 CB TYR 983 112.597 72.903 47.082 0.00 0.00  
ATOM 14821 HB2 TYR 983 113.556 73.315 46.768 0.00 0.00  
ATOM 14822 HB3 TYR 983 112.621 71.814 47.040 0.00 0.00  
ATOM 14823 CG TYR 983 111.575 73.363 46.152 0.00 0.00  
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ATOM 14838 H ALA 984 111.902 70.598 48.813 0.00 0.00  
ATOM 14839 CA ALA 984 110.045 70.388 49.720 0.00 0.00  
ATOM 14840 HA ALA 984 109.124 70.782 49.291 0.00 0.00  
ATOM 14841 CB ALA 984 110.133 68.951 49.234 0.00 0.00  
ATOM 14842 HB1 ALA 984 109.293 68.330 49.546 0.00 0.00

ATOM	14843	HB2	ALA	984	110.172	68.991	48.146	0.00	0.00
ATOM	14844	HB3	ALA	984	111.078	68.515	49.559	0.00	0.00
ATOM	14845	C	ALA	984	109.861	70.506	51.231	0.00	0.00
ATOM	14846	O	ALA	984	108.704	70.363	51.641	0.00	0.00
ATOM	14847	N	ASP	985	110.859	70.775	52.110	0.00	0.00
ATOM	14848	H	ASP	985	111.810	70.703	51.779	0.00	0.00
ATOM	14849	CA	ASP	985	110.646	71.132	53.478	0.00	0.00
ATOM	14850	HA	ASP	985	110.058	70.429	54.068	0.00	0.00
ATOM	14851	CB	ASP	985	111.978	71.069	54.193	0.00	0.00
ATOM	14852	HB2	ASP	985	112.277	70.021	54.187	0.00	0.00
ATOM	14853	HB3	ASP	985	112.561	71.770	53.596	0.00	0.00
ATOM	14854	CG	ASP	985	112.106	71.553	55.663	0.00	0.00
ATOM	14855	OD1	ASP	985	112.961	72.484	55.856	0.00	0.00
ATOM	14856	OD2	ASP	985	111.331	71.175	56.610	0.00	0.00
ATOM	14857	C	ASP	985	109.920	72.514	53.643	0.00	0.00
ATOM	14858	O	ASP	985	109.436	72.778	54.726	0.00	0.00
ATOM	14859	N	MET	986	110.007	73.334	52.574	0.00	0.00
ATOM	14860	H	MET	986	110.642	73.057	51.839	0.00	0.00
ATOM	14861	CA	MET	986	109.407	74.700	52.680	0.00	0.00
ATOM	14862	HA	MET	986	109.162	74.974	53.706	0.00	0.00
ATOM	14863	CB	MET	986	110.508	75.750	52.345	0.00	0.00
ATOM	14864	HB2	MET	986	110.654	75.735	51.265	0.00	0.00
ATOM	14865	HB3	MET	986	111.438	75.461	52.835	0.00	0.00
ATOM	14866	CG	MET	986	110.077	77.153	52.811	0.00	0.00
ATOM	14867	HG2	MET	986	109.322	77.510	52.110	0.00	0.00
ATOM	14868	HG3	MET	986	109.519	77.245	53.743	0.00	0.00

ATOM	14869	SD	MET	986	111.402	78.348	52.951	0.00	0.00
ATOM	14870	CE	MET	986	111.939	77.813	54.551	0.00	0.00
ATOM	14871	HE1	MET	986	112.961	78.149	54.724	0.00	0.00
ATOM	14872	HE2	MET	986	111.269	78.145	55.345	0.00	0.00
ATOM	14873	HE3	MET	986	111.998	76.726	54.598	0.00	0.00
ATOM	14874	C	MET	986	108.100	74.761	51.879	0.00	0.00
ATOM	14875	O	MET	986	107.265	75.583	52.187	0.00	0.00
ATOM	14876	N	PHE	987	107.937	73.869	50.898	0.00	0.00
ATOM	14877	H	PHE	987	108.732	73.286	50.679	0.00	0.00
ATOM	14878	CA	PHE	987	106.887	73.840	49.826	0.00	0.00
ATOM	14879	HA	PHE	987	106.329	74.736	50.099	0.00	0.00
ATOM	14880	CB	PHE	987	107.549	74.263	48.487	0.00	0.00
ATOM	14881	HB2	PHE	987	108.368	73.578	48.266	0.00	0.00
ATOM	14882	HB3	PHE	987	106.817	74.241	47.680	0.00	0.00
ATOM	14883	CG	PHE	987	108.049	75.662	48.634	0.00	0.00
ATOM	14884	CD1	PHE	987	109.442	75.882	48.550	0.00	0.00
ATOM	14885	HD1	PHE	987	110.087	75.054	48.294	0.00	0.00
ATOM	14886	CE1	PHE	987	109.988	77.158	48.644	0.00	0.00
ATOM	14887	HE1	PHE	987	111.014	77.356	48.371	0.00	0.00
ATOM	14888	CZ	PHE	987	109.143	78.206	49.014	0.00	0.00
ATOM	14889	HZ	PHE	987	109.483	79.230	49.026	0.00	0.00
ATOM	14890	CE2	PHE	987	107.714	77.983	49.053	0.00	0.00
ATOM	14891	HE2	PHE	987	107.076	78.846	49.171	0.00	0.00
ATOM	14892	CD2	PHE	987	107.200	76.758	48.849	0.00	0.00
ATOM	14893	HD2	PHE	987	106.136	76.594	48.755	0.00	0.00
ATOM	14894	C	PHE	987	105.995	72.608	49.785	0.00	0.00



ATOM	14895	O	PHE	987	105.032	72.640	49.096	0.00	0.00
ATOM	14896	N	GLY	988	106.464	71.574	50.402	0.00	0.00
ATOM	14897	H	GLY	988	107.275	71.712	50.987	0.00	0.00
ATOM	14898	CA	GLY	988	105.916	70.235	50.260	0.00	0.00
ATOM	14899	HA2	GLY	988	106.279	69.694	51.134	0.00	0.00
ATOM	14900	HA3	GLY	988	104.835	70.095	50.257	0.00	0.00
ATOM	14901	C	GLY	988	106.276	69.499	48.945	0.00	0.00
ATOM	14902	O	GLY	988	106.804	70.124	47.988	0.00	0.00
ATOM	14903	N	PRO	989	105.929	68.184	49.001	0.00	0.00
ATOM	14904	CD	PRO	989	105.414	67.477	50.146	0.00	0.00
ATOM	14905	HD2	PRO	989	106.076	67.446	51.011	0.00	0.00
ATOM	14906	HD3	PRO	989	104.483	67.895	50.529	0.00	0.00
ATOM	14907	CG	PRO	989	105.212	66.018	49.803	0.00	0.00
ATOM	14908	HG2	PRO	989	106.078	65.470	50.175	0.00	0.00
ATOM	14909	HG3	PRO	989	104.252	65.594	50.098	0.00	0.00
ATOM	14910	CB	PRO	989	105.327	66.050	48.269	0.00	0.00
ATOM	14911	HB2	PRO	989	105.706	65.083	47.941	0.00	0.00
ATOM	14912	HB3	PRO	989	104.397	66.249	47.737	0.00	0.00
ATOM	14913	CA	PRO	989	106.257	67.189	47.987	0.00	0.00
ATOM	14914	HA	PRO	989	107.267	66.838	48.199	0.00	0.00
ATOM	14915	C	PRO	989	106.160	67.741	46.525	0.00	0.00
ATOM	14916	O	PRO	989	105.135	68.104	46.065	0.00	0.00
ATOM	14917	N	THR	990	107.268	67.549	45.800	0.00	0.00
ATOM	14918	H	THR	990	108.085	67.110	46.200	0.00	0.00
ATOM	14919	CA	THR	990	107.185	67.526	44.359	0.00	0.00
ATOM	14920	HA	THR	990	106.333	68.079	43.965	0.00	0.00

ATOM 14921 CB THR 990 108.413 68.193 43.739 0.00 0.00  
ATOM 14922 HB THR 990 108.239 68.209 42.663 0.00 0.00  
ATOM 14923 CG2 THR 990 108.563 69.659 44.060 0.00 0.00  
ATOM 14924 1HG2 THR 990 108.577 69.762 45.145 0.00 0.00  
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ATOM 14927 OG1 THR 990 109.661 67.570 43.988 0.00 0.00  
ATOM 14928 HG1 THR 990 109.744 67.191 44.867 0.00 0.00  
ATOM 14929 C THR 990 106.971 66.154 43.697 0.00 0.00  
ATOM 14930 O THR 990 106.830 65.120 44.326 0.00 0.00  
ATOM 14931 N VAL 991 106.791 66.089 42.336 0.00 0.00  
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ATOM 14933 CA VAL 991 106.414 64.840 41.621 0.00 0.00  
ATOM 14934 HA VAL 991 105.457 64.531 42.042 0.00 0.00  
ATOM 14935 CB VAL 991 106.167 65.047 40.112 0.00 0.00  
ATOM 14936 HB VAL 991 105.520 65.914 39.980 0.00 0.00  
ATOM 14937 CG1 VAL 991 107.406 65.419 39.326 0.00 0.00  
ATOM 14938 1HG1 VAL 991 108.088 64.573 39.238 0.00 0.00  
ATOM 14939 2HG1 VAL 991 107.178 65.918 38.384 0.00 0.00  
ATOM 14940 3HG1 VAL 991 107.894 66.224 39.876 0.00 0.00  
ATOM 14941 CG2 VAL 991 105.407 63.914 39.435 0.00 0.00  
ATOM 14942 1HG2 VAL 991 105.028 64.326 38.500 0.00 0.00  
ATOM 14943 2HG2 VAL 991 106.107 63.125 39.159 0.00 0.00  
ATOM 14944 3HG2 VAL 991 104.627 63.501 40.074 0.00 0.00  
ATOM 14945 C VAL 991 107.431 63.721 41.885 0.00 0.00  
ATOM 14946 O VAL 991 108.581 63.970 41.967 0.00 0.00

ATOM 14947 N GLY 992 106.957 62.568 42.167 0.00 0.00  
ATOM 14948 H GLY 992 105.976 62.429 41.972 0.00 0.00  
ATOM 14949 CA GLY 992 107.711 61.451 42.694 0.00 0.00  
ATOM 14950 HA2 GLY 992 107.163 60.510 42.648 0.00 0.00  
ATOM 14951 HA3 GLY 992 108.573 61.388 42.030 0.00 0.00  
ATOM 14952 C GLY 992 108.221 61.590 44.115 0.00 0.00  
ATOM 14953 O GLY 992 108.953 60.672 44.507 0.00 0.00  
ATOM 14954 N ASP 993 107.927 62.575 44.972 0.00 0.00  
ATOM 14955 H ASP 993 107.308 63.296 44.629 0.00 0.00  
ATOM 14956 CA ASP 993 107.920 62.491 46.460 0.00 0.00  
ATOM 14957 HA ASP 993 108.781 61.858 46.674 0.00 0.00  
ATOM 14958 CB ASP 993 108.226 63.928 46.934 0.00 0.00  
ATOM 14959 HB2 ASP 993 107.385 64.552 46.629 0.00 0.00  
ATOM 14960 HB3 ASP 993 108.314 63.928 48.020 0.00 0.00  
ATOM 14961 CG ASP 993 109.465 64.594 46.340 0.00 0.00  
ATOM 14962 OD1 ASP 993 110.551 64.005 46.187 0.00 0.00  
ATOM 14963 OD2 ASP 993 109.414 65.815 45.991 0.00 0.00  
ATOM 14964 C ASP 993 106.736 61.872 47.084 0.00 0.00  
ATOM 14965 O ASP 993 105.750 61.568 46.418 0.00 0.00  
ATOM 14966 N LYS 994 106.849 61.490 48.339 0.00 0.00  
ATOM 14967 H LYS 994 107.622 61.850 48.879 0.00 0.00  
ATOM 14968 CA LYS 994 105.901 60.496 48.928 0.00 0.00  
ATOM 14969 HA LYS 994 104.923 60.499 48.446 0.00 0.00  
ATOM 14970 CB LYS 994 106.513 59.131 48.735 0.00 0.00  
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ATOM 14972 HB3 LYS 994 106.514 58.944 47.661 0.00 0.00

ATOM 14973 CG LYS 994 107.932 58.915 49.298 0.00 0.00  
ATOM 14974 HG2 LYS 994 108.561 59.594 48.723 0.00 0.00  
ATOM 14975 HG3 LYS 994 107.858 59.115 50.367 0.00 0.00  
ATOM 14976 CD LYS 994 108.354 57.483 49.060 0.00 0.00  
ATOM 14977 HD2 LYS 994 107.765 56.775 49.642 0.00 0.00  
ATOM 14978 HD3 LYS 994 108.218 57.202 48.015 0.00 0.00  
ATOM 14979 CE LYS 994 109.798 57.266 49.344 0.00 0.00  
ATOM 14980 HE2 LYS 994 110.054 57.426 50.392 0.00 0.00  
ATOM 14981 HE3 LYS 994 110.087 56.244 49.100 0.00 0.00  
ATOM 14982 NZ LYS 994 110.642 58.100 48.416 0.00 0.00  
ATOM 14983 HZ1 LYS 994 110.093 58.419 47.630 0.00 0.00  
ATOM 14984 HZ2 LYS 994 111.240 58.826 48.785 0.00 0.00  
ATOM 14985 HZ3 LYS 994 111.246 57.482 47.894 0.00 0.00  
ATOM 14986 C LYS 994 105.675 60.811 50.434 0.00 0.00  
ATOM 14987 O LYS 994 106.416 61.460 51.117 0.00 0.00  
ATOM 14988 N VAL 995 104.579 60.207 50.970 0.00 0.00  
ATOM 14989 H VAL 995 104.096 59.577 50.346 0.00 0.00  
ATOM 14990 CA VAL 995 104.066 60.520 52.318 0.00 0.00  
ATOM 14991 HA VAL 995 104.855 60.860 52.990 0.00 0.00  
ATOM 14992 CB VAL 995 102.974 61.590 52.266 0.00 0.00  
ATOM 14993 HB VAL 995 102.071 61.081 51.929 0.00 0.00  
ATOM 14994 CG1 VAL 995 102.779 62.210 53.623 0.00 0.00  
ATOM 14995 1HG1 VAL 995 102.909 61.475 54.417 0.00 0.00  
ATOM 14996 2HG1 VAL 995 103.429 63.075 53.758 0.00 0.00  
ATOM 14997 3HG1 VAL 995 101.773 62.593 53.791 0.00 0.00  
ATOM 14998 CG2 VAL 995 103.187 62.744 51.316 0.00 0.00

ATOM 14999 1HG2 VAL 995 103.228 62.375 50.291 0.00 0.00  
ATOM 15000 2HG2 VAL 995 102.394 63.491 51.289 0.00 0.00  
ATOM 15001 3HG2 VAL 995 103.975 63.464 51.538 0.00 0.00  
ATOM 15002 C VAL 995 103.309 59.295 52.784 0.00 0.00  
ATOM 15003 O VAL 995 102.672 58.624 52.016 0.00 0.00  
ATOM 15004 N ARG 996 103.415 58.980 54.118 0.00 0.00  
ATOM 15005 H ARG 996 103.847 59.630 54.760 0.00 0.00  
ATOM 15006 CA ARG 996 102.939 57.733 54.713 0.00 0.00  
ATOM 15007 HA ARG 996 102.929 56.930 53.976 0.00 0.00  
ATOM 15008 CB ARG 996 103.818 57.425 55.897 0.00 0.00  
ATOM 15009 HB2 ARG 996 104.859 57.317 55.595 0.00 0.00  
ATOM 15010 HB3 ARG 996 103.664 58.169 56.679 0.00 0.00  
ATOM 15011 CG ARG 996 103.456 56.025 56.439 0.00 0.00  
ATOM 15012 HG2 ARG 996 102.451 56.127 56.847 0.00 0.00  
ATOM 15013 HG3 ARG 996 103.465 55.254 55.668 0.00 0.00  
ATOM 15014 CD ARG 996 104.434 55.704 57.518 0.00 0.00  
ATOM 15015 HD2 ARG 996 104.594 56.607 58.107 0.00 0.00  
ATOM 15016 HD3 ARG 996 105.339 55.373 57.008 0.00 0.00  
ATOM 15017 NE ARG 996 103.879 54.660 58.388 0.00 0.00  
ATOM 15018 HE ARG 996 103.037 54.197 58.076 0.00 0.00  
ATOM 15019 CZ ARG 996 104.312 54.310 59.580 0.00 0.00  
ATOM 15020 NH1 ARG 996 105.374 54.852 60.065 0.00 0.00  
ATOM 15021 1HH1 ARG 996 105.801 54.436 60.880 0.00 0.00  
ATOM 15022 2HH1 ARG 996 105.896 55.363 59.368 0.00 0.00  
ATOM 15023 NH2 ARG 996 103.753 53.476 60.358 0.00 0.00  
ATOM 15024 1HH2 ARG 996 103.951 53.431 61.347 0.00 0.00

ATOM 15025 2HH2 ARG 996 102.868 53.039 60.142 0.00 0.00  
ATOM 15026 C ARG 996 101.521 58.109 55.136 0.00 0.00  
ATOM 15027 O ARG 996 101.206 59.243 55.525 0.00 0.00  
ATOM 15028 N LEU 997 100.553 57.224 54.972 0.00 0.00  
ATOM 15029 H LEU 997 100.901 56.395 54.511 0.00 0.00  
ATOM 15030 CA LEU 997 99.255 57.334 55.509 0.00 0.00  
ATOM 15031 HA LEU 997 98.918 58.370 55.462 0.00 0.00  
ATOM 15032 CB LEU 997 98.191 56.623 54.545 0.00 0.00  
ATOM 15033 HB2 LEU 997 98.373 55.552 54.630 0.00 0.00  
ATOM 15034 HB3 LEU 997 97.231 56.935 54.956 0.00 0.00  
ATOM 15035 CG LEU 997 98.291 57.010 53.089 0.00 0.00  
ATOM 15036 HG LEU 997 99.321 56.913 52.745 0.00 0.00  
ATOM 15037 CD1 LEU 997 97.347 56.243 52.158 0.00 0.00  
ATOM 15038 1HD1 LEU 997 96.290 56.384 52.381 0.00 0.00  
ATOM 15039 2HD1 LEU 997 97.377 56.625 51.138 0.00 0.00  
ATOM 15040 3HD1 LEU 997 97.500 55.165 52.212 0.00 0.00  
ATOM 15041 CD2 LEU 997 98.111 58.546 53.016 0.00 0.00  
ATOM 15042 1HD2 LEU 997 98.936 59.059 53.509 0.00 0.00  
ATOM 15043 2HD2 LEU 997 97.964 58.900 51.996 0.00 0.00  
ATOM 15044 3HD2 LEU 997 97.151 58.798 53.466 0.00 0.00  
ATOM 15045 C LEU 997 99.074 56.898 56.964 0.00 0.00  
ATOM 15046 O LEU 997 98.742 55.771 57.281 0.00 0.00  
ATOM 15047 N ALA 998 99.172 57.878 57.816 0.00 0.00  
ATOM 15048 H ALA 998 99.638 58.733 57.548 0.00 0.00  
ATOM 15049 CA ALA 998 99.014 57.671 59.261 0.00 0.00  
ATOM 15050 HA ALA 998 99.284 58.541 59.858 0.00 0.00

ATOM	15051	CB	ALA	998	97.492	57.424	59.592	0.00	0.00
ATOM	15052	HB1	ALA	998	97.412	56.919	60.555	0.00	0.00
ATOM	15053	HB2	ALA	998	97.044	58.405	59.752	0.00	0.00
ATOM	15054	HB3	ALA	998	96.976	56.956	58.753	0.00	0.00
ATOM	15055	C	ALA	998	100.095	56.770	59.783	0.00	0.00
ATOM	15056	O	ALA	998	101.310	56.839	59.379	0.00	0.00
ATOM	15057	N	ASP	999	99.770	55.978	60.768	0.00	0.00
ATOM	15058	H	ASP	999	98.790	55.870	60.987	0.00	0.00
ATOM	15059	CA	ASP	999	100.479	54.908	61.377	0.00	0.00
ATOM	15060	HA	ASP	999	101.541	55.148	61.420	0.00	0.00
ATOM	15061	CB	ASP	999	99.986	54.765	62.815	0.00	0.00
ATOM	15062	HB2	ASP	999	99.999	55.734	63.316	0.00	0.00
ATOM	15063	HB3	ASP	999	98.971	54.397	62.665	0.00	0.00
ATOM	15064	CG	ASP	999	100.584	53.722	63.757	0.00	0.00
ATOM	15065	OD1	ASP	999	99.817	52.870	64.262	0.00	0.00
ATOM	15066	OD2	ASP	999	101.782	53.895	64.170	0.00	0.00
ATOM	15067	C	ASP	999	100.329	53.545	60.635	0.00	0.00
ATOM	15068	O	ASP	999	100.816	52.539	61.037	0.00	0.00
ATOM	15069	N	THR	1000	99.678	53.512	59.475	0.00	0.00
ATOM	15070	H	THR	1000	99.406	54.392	59.059	0.00	0.00
ATOM	15071	CA	THR	1000	99.620	52.289	58.562	0.00	0.00
ATOM	15072	HA	THR	1000	99.562	51.379	59.159	0.00	0.00
ATOM	15073	CB	THR	1000	98.520	52.410	57.494	0.00	0.00
ATOM	15074	HB	THR	1000	98.302	51.454	57.018	0.00	0.00
ATOM	15075	CG2	THR	1000	97.196	52.723	58.120	0.00	0.00
ATOM	15076	1HG2	THR	1000	97.264	53.250	59.071	0.00	0.00

ATOM	15077	2HG2	THR	1000	96.699	53.423	57.448	0.00	0.00
ATOM	15078	3HG2	THR	1000	96.648	51.790	58.252	0.00	0.00
ATOM	15079	OG1	THR	1000	98.936	53.386	56.523	0.00	0.00
ATOM	15080	HG1	THR	1000	98.697	54.222	56.930	0.00	0.00
ATOM	15081	C	THR	1000	100.954	52.019	57.810	0.00	0.00
ATOM	15082	O	THR	1000	101.865	52.864	57.891	0.00	0.00
ATOM	15083	N	GLU	1001	101.159	50.797	57.332	0.00	0.00
ATOM	15084	H	GLU	1001	100.496	50.055	57.504	0.00	0.00
ATOM	15085	CA	GLU	1001	102.254	50.546	56.381	0.00	0.00
ATOM	15086	HA	GLU	1001	103.102	51.161	56.682	0.00	0.00
ATOM	15087	CB	GLU	1001	102.565	49.005	56.470	0.00	0.00
ATOM	15088	HB2	GLU	1001	101.649	48.478	56.200	0.00	0.00
ATOM	15089	HB3	GLU	1001	103.372	48.780	55.773	0.00	0.00
ATOM	15090	CG	GLU	1001	103.129	48.527	57.832	0.00	0.00
ATOM	15091	HG2	GLU	1001	102.508	48.902	58.646	0.00	0.00
ATOM	15092	HG3	GLU	1001	103.040	47.440	57.844	0.00	0.00
ATOM	15093	CD	GLU	1001	104.574	48.892	58.045	0.00	0.00
ATOM	15094	OE1	GLU	1001	104.774	50.070	58.315	0.00	0.00
ATOM	15095	OE2	GLU	1001	105.493	47.994	58.022	0.00	0.00
ATOM	15096	C	GLU	1001	102.056	50.965	54.899	0.00	0.00
ATOM	15097	O	GLU	1001	102.813	50.603	54.004	0.00	0.00
ATOM	15098	N	LEU	1002	101.123	51.902	54.688	0.00	0.00
ATOM	15099	H	LEU	1002	100.611	52.386	55.411	0.00	0.00
ATOM	15100	CA	LEU	1002	100.899	52.457	53.356	0.00	0.00
ATOM	15101	HA	LEU	1002	101.181	51.769	52.559	0.00	0.00
ATOM	15102	CB	LEU	1002	99.400	52.722	53.148	0.00	0.00



ATOM	15103	HB2	LEU	1002	99.208	53.496	53.892	0.00	0.00
ATOM	15104	HB3	LEU	1002	99.400	53.187	52.162	0.00	0.00
ATOM	15105	CG	LEU	1002	98.271	51.625	53.398	0.00	0.00
ATOM	15106	HG	LEU	1002	98.377	51.157	54.377	0.00	0.00
ATOM	15107	CD1	LEU	1002	96.899	52.242	53.514	0.00	0.00
ATOM	15108	1HD1	LEU	1002	96.137	51.464	53.478	0.00	0.00
ATOM	15109	2HD1	LEU	1002	96.903	52.699	54.504	0.00	0.00
ATOM	15110	3HD1	LEU	1002	96.654	52.945	52.718	0.00	0.00
ATOM	15111	CD2	LEU	1002	98.483	50.431	52.386	0.00	0.00
ATOM	15112	1HD2	LEU	1002	97.868	49.561	52.618	0.00	0.00
ATOM	15113	2HD2	LEU	1002	98.313	50.988	51.465	0.00	0.00
ATOM	15114	3HD2	LEU	1002	99.506	50.056	52.401	0.00	0.00
ATOM	15115	C	LEU	1002	101.607	53.856	53.118	0.00	0.00
ATOM	15116	O	LEU	1002	101.661	54.689	53.989	0.00	0.00
ATOM	15117	N	TRP	1003	102.049	53.983	51.843	0.00	0.00
ATOM	15118	H	TRP	1003	101.924	53.260	51.149	0.00	0.00
ATOM	15119	CA	TRP	1003	102.687	55.184	51.317	0.00	0.00
ATOM	15120	HA	TRP	1003	102.481	56.016	51.990	0.00	0.00
ATOM	15121	CB	TRP	1003	104.210	54.874	51.268	0.00	0.00
ATOM	15122	HB2	TRP	1003	104.352	53.875	50.856	0.00	0.00
ATOM	15123	HB3	TRP	1003	104.595	55.629	50.582	0.00	0.00
ATOM	15124	CG	TRP	1003	105.045	54.757	52.449	0.00	0.00
ATOM	15125	CD1	TRP	1003	105.280	53.672	53.254	0.00	0.00
ATOM	15126	HD1	TRP	1003	104.731	52.761	53.066	0.00	0.00
ATOM	15127	NE1	TRP	1003	106.287	53.952	54.206	0.00	0.00
ATOM	15128	HE1	TRP	1003	106.576	53.264	54.887	0.00	0.00

ATOM	15129	CE2	TRP	1003	106.618	55.306	54.138	0.00	0.00
ATOM	15130	CZ2	TRP	1003	107.469	56.175	54.859	0.00	0.00
ATOM	15131	HZ2	TRP	1003	108.026	55.819	55.713	0.00	0.00
ATOM	15132	CH2	TRP	1003	107.698	57.486	54.394	0.00	0.00
ATOM	15133	HH2	TRP	1003	108.337	58.188	54.909	0.00	0.00
ATOM	15134	CZ3	TRP	1003	106.976	57.981	53.309	0.00	0.00
ATOM	15135	HZ3	TRP	1003	107.164	58.954	52.881	0.00	0.00
ATOM	15136	CE3	TRP	1003	106.100	57.130	52.596	0.00	0.00
ATOM	15137	HE3	TRP	1003	105.574	57.508	51.731	0.00	0.00
ATOM	15138	CD2	TRP	1003	105.834	55.793	53.003	0.00	0.00
ATOM	15139	C	TRP	1003	102.247	55.511	49.870	0.00	0.00
ATOM	15140	O	TRP	1003	102.358	54.621	49.003	0.00	0.00
ATOM	15141	N	ILE	1004	101.818	56.721	49.658	0.00	0.00
ATOM	15142	H	ILE	1004	101.789	57.382	50.421	0.00	0.00
ATOM	15143	CA	ILE	1004	101.491	57.249	48.409	0.00	0.00
ATOM	15144	HA	ILE	1004	101.214	56.360	47.842	0.00	0.00
ATOM	15145	CB	ILE	1004	100.302	58.297	48.489	0.00	0.00
ATOM	15146	HB	ILE	1004	100.348	58.837	47.543	0.00	0.00
ATOM	15147	CG2	ILE	1004	98.990	57.539	48.579	0.00	0.00
ATOM	15148	1HG2	ILE	1004	98.085	58.103	48.351	0.00	0.00
ATOM	15149	2HG2	ILE	1004	98.934	56.791	47.788	0.00	0.00
ATOM	15150	3HG2	ILE	1004	98.828	57.016	49.521	0.00	0.00
ATOM	15151	CG1	ILE	1004	100.494	59.398	49.611	0.00	0.00
ATOM	15152	2HG1	ILE	1004	100.533	58.893	50.576	0.00	0.00
ATOM	15153	3HG1	ILE	1004	101.468	59.856	49.435	0.00	0.00
ATOM	15154	CD1	ILE	1004	99.449	60.509	49.639	0.00	0.00

ATOM	15155	1HD1	ILE	1004	99.566	61.149	48.764	0.00	0.00
ATOM	15156	2HD1	ILE	1004	98.444	60.108	49.503	0.00	0.00
ATOM	15157	3HD1	ILE	1004	99.335	61.117	50.537	0.00	0.00
ATOM	15158	C	ILE	1004	102.746	57.907	47.834	0.00	0.00
ATOM	15159	O	ILE	1004	103.617	58.448	48.489	0.00	0.00
ATOM	15160	N	GLU	1005	102.629	58.098	46.523	0.00	0.00
ATOM	15161	H	GLU	1005	101.876	57.692	45.986	0.00	0.00
ATOM	15162	CA	GLU	1005	103.533	58.850	45.848	0.00	0.00
ATOM	15163	HA	GLU	1005	104.181	59.412	46.520	0.00	0.00
ATOM	15164	CB	GLU	1005	104.494	57.961	45.032	0.00	0.00
ATOM	15165	HB2	GLU	1005	104.946	57.258	45.731	0.00	0.00
ATOM	15166	HB3	GLU	1005	103.868	57.466	44.290	0.00	0.00
ATOM	15167	CG	GLU	1005	105.601	58.706	44.301	0.00	0.00
ATOM	15168	HG2	GLU	1005	105.133	59.376	43.579	0.00	0.00
ATOM	15169	HG3	GLU	1005	106.107	59.320	45.046	0.00	0.00
ATOM	15170	CD	GLU	1005	106.587	57.708	43.658	0.00	0.00
ATOM	15171	OE1	GLU	1005	106.615	57.689	42.367	0.00	0.00
ATOM	15172	OE2	GLU	1005	107.452	57.054	44.338	0.00	0.00
ATOM	15173	C	GLU	1005	102.828	59.893	44.903	0.00	0.00
ATOM	15174	O	GLU	1005	101.768	59.549	44.321	0.00	0.00
ATOM	15175	N	VAL	1006	103.348	61.158	44.755	0.00	0.00
ATOM	15176	H	VAL	1006	104.206	61.368	45.244	0.00	0.00
ATOM	15177	CA	VAL	1006	102.729	62.173	43.995	0.00	0.00
ATOM	15178	HA	VAL	1006	101.664	62.041	44.185	0.00	0.00
ATOM	15179	CB	VAL	1006	103.124	63.563	44.516	0.00	0.00
ATOM	15180	HB	VAL	1006	104.178	63.613	44.789	0.00	0.00

ATOM	15181	CG1	VAL	1006	102.789	64.679	43.465	0.00	0.00
ATOM	15182	1HG1	VAL	1006	101.704	64.743	43.384	0.00	0.00
ATOM	15183	2HG1	VAL	1006	103.045	65.614	43.964	0.00	0.00
ATOM	15184	3HG1	VAL	1006	103.276	64.504	42.506	0.00	0.00
ATOM	15185	CG2	VAL	1006	102.351	63.800	45.843	0.00	0.00
ATOM	15186	1HG2	VAL	1006	101.267	63.748	45.734	0.00	0.00
ATOM	15187	2HG2	VAL	1006	102.597	63.051	46.596	0.00	0.00
ATOM	15188	3HG2	VAL	1006	102.737	64.721	46.280	0.00	0.00
ATOM	15189	C	VAL	1006	102.921	61.899	42.498	0.00	0.00
ATOM	15190	O	VAL	1006	104.110	61.815	42.035	0.00	0.00
ATOM	15191	N	GLU	1007	101.934	61.853	41.713	0.00	0.00
ATOM	15192	H	GLU	1007	100.980	61.884	42.044	0.00	0.00
ATOM	15193	CA	GLU	1007	101.955	61.525	40.263	0.00	0.00
ATOM	15194	HA	GLU	1007	102.963	61.244	39.959	0.00	0.00
ATOM	15195	CB	GLU	1007	101.030	60.280	39.998	0.00	0.00
ATOM	15196	HB2	GLU	1007	101.328	59.847	39.043	0.00	0.00
ATOM	15197	HB3	GLU	1007	101.173	59.597	40.835	0.00	0.00
ATOM	15198	CG	GLU	1007	99.486	60.574	40.040	0.00	0.00
ATOM	15199	HG2	GLU	1007	99.244	61.132	40.944	0.00	0.00
ATOM	15200	HG3	GLU	1007	99.147	61.244	39.249	0.00	0.00
ATOM	15201	CD	GLU	1007	98.681	59.208	39.901	0.00	0.00
ATOM	15202	OE1	GLU	1007	99.202	58.364	39.075	0.00	0.00
ATOM	15203	OE2	GLU	1007	97.620	59.052	40.498	0.00	0.00
ATOM	15204	C	GLU	1007	101.675	62.650	39.353	0.00	0.00
ATOM	15205	O	GLU	1007	101.846	62.442	38.132	0.00	0.00
ATOM	15206	N	ASP	1008	101.271	63.901	39.795	0.00	0.00

ATOM	15207	H	ASP	1008	101.504	63.960	40.776	0.00	0.00
ATOM	15208	CA	ASP	1008	101.364	65.185	39.018	0.00	0.00
ATOM	15209	HA	ASP	1008	102.277	65.307	38.434	0.00	0.00
ATOM	15210	CB	ASP	1008	100.160	65.259	38.046	0.00	0.00
ATOM	15211	HB2	ASP	1008	99.242	65.411	38.613	0.00	0.00
ATOM	15212	HB3	ASP	1008	100.044	64.375	37.419	0.00	0.00
ATOM	15213	CG	ASP	1008	100.188	66.389	37.059	0.00	0.00
ATOM	15214	OD1	ASP	1008	99.496	67.379	37.265	0.00	0.00
ATOM	15215	OD2	ASP	1008	101.066	66.412	36.198	0.00	0.00
ATOM	15216	C	ASP	1008	101.437	66.348	39.986	0.00	0.00
ATOM	15217	O	ASP	1008	101.163	66.265	41.181	0.00	0.00
ATOM	15218	N	ASP	1009	101.732	67.520	39.494	0.00	0.00
ATOM	15219	H	ASP	1009	101.492	67.690	38.527	0.00	0.00
ATOM	15220	CA	ASP	1009	102.243	68.663	40.202	0.00	0.00
ATOM	15221	HA	ASP	1009	101.661	68.704	41.122	0.00	0.00
ATOM	15222	CB	ASP	1009	103.704	68.353	40.543	0.00	0.00
ATOM	15223	HB2	ASP	1009	103.705	67.350	40.971	0.00	0.00
ATOM	15224	HB3	ASP	1009	104.205	68.373	39.575	0.00	0.00
ATOM	15225	CG	ASP	1009	104.330	69.263	41.527	0.00	0.00
ATOM	15226	OD1	ASP	1009	103.797	70.297	41.964	0.00	0.00
ATOM	15227	OD2	ASP	1009	105.511	69.105	41.736	0.00	0.00
ATOM	15228	C	ASP	1009	102.143	69.898	39.281	0.00	0.00
ATOM	15229	O	ASP	1009	102.466	69.778	38.087	0.00	0.00
ATOM	15230	N	LEU	1010	101.798	71.063	39.863	0.00	0.00
ATOM	15231	H	LEU	1010	101.396	71.083	40.789	0.00	0.00
ATOM	15232	CA	LEU	1010	101.795	72.434	39.119	0.00	0.00

ATOM	15233	HA	LEU	1010	101.872	72.282	38.042	0.00	0.00
ATOM	15234	CB	LEU	1010	100.509	73.127	39.346	0.00	0.00
ATOM	15235	HB2	LEU	1010	100.207	72.875	40.363	0.00	0.00
ATOM	15236	HB3	LEU	1010	100.617	74.209	39.420	0.00	0.00
ATOM	15237	CG	LEU	1010	99.387	72.909	38.310	0.00	0.00
ATOM	15238	HG	LEU	1010	98.515	73.492	38.606	0.00	0.00
ATOM	15239	CD1	LEU	1010	99.857	73.246	36.857	0.00	0.00
ATOM	15240	1HD1	LEU	1010	99.035	73.280	36.142	0.00	0.00
ATOM	15241	2HD1	LEU	1010	100.296	74.243	36.867	0.00	0.00
ATOM	15242	3HD1	LEU	1010	100.453	72.392	36.536	0.00	0.00
ATOM	15243	CD2	LEU	1010	98.750	71.480	38.394	0.00	0.00
ATOM	15244	1HD2	LEU	1010	99.532	70.744	38.207	0.00	0.00
ATOM	15245	2HD2	LEU	1010	98.330	71.321	39.387	0.00	0.00
ATOM	15246	3HD2	LEU	1010	98.013	71.484	37.591	0.00	0.00
ATOM	15247	C	LEU	1010	102.956	73.345	39.445	0.00	0.00
ATOM	15248	O	LEU	1010	102.938	74.445	38.905	0.00	0.00
ATOM	15249	N	THR	1011	103.986	72.883	40.176	0.00	0.00
ATOM	15250	H	THR	1011	103.865	71.989	40.631	0.00	0.00
ATOM	15251	CA	THR	1011	105.174	73.742	40.458	0.00	0.00
ATOM	15252	HA	THR	1011	104.852	74.582	41.073	0.00	0.00
ATOM	15253	CB	THR	1011	106.186	73.037	41.419	0.00	0.00
ATOM	15254	HB	THR	1011	107.068	73.676	41.386	0.00	0.00
ATOM	15255	CG2	THR	1011	105.696	73.023	42.859	0.00	0.00
ATOM	15256	1HG2	THR	1011	105.632	74.054	43.209	0.00	0.00
ATOM	15257	2HG2	THR	1011	104.704	72.587	42.981	0.00	0.00
ATOM	15258	3HG2	THR	1011	106.499	72.602	43.464	0.00	0.00

ATOM 15259 OG1 THR 1011 106.585 71.797 41.026 0.00 0.00  
ATOM 15260 HG1 THR 1011 106.306 71.093 41.616 0.00 0.00  
ATOM 15261 C THR 1011 105.876 74.368 39.199 0.00 0.00  
ATOM 15262 O THR 1011 106.055 73.650 38.277 0.00 0.00  
ATOM 15263 N THR 1012 106.269 75.670 39.216 0.00 0.00  
ATOM 15264 H THR 1012 105.953 76.247 39.982 0.00 0.00  
ATOM 15265 CA THR 1012 107.054 76.469 38.210 0.00 0.00  
ATOM 15266 HA THR 1012 107.123 75.760 37.385 0.00 0.00  
ATOM 15267 CB THR 1012 106.332 77.704 37.644 0.00 0.00  
ATOM 15268 HB THR 1012 107.019 78.271 37.017 0.00 0.00  
ATOM 15269 CG2 THR 1012 105.236 77.279 36.794 0.00 0.00  
ATOM 15270 1HG2 THR 1012 105.478 76.626 35.956 0.00 0.00  
ATOM 15271 2HG2 THR 1012 104.387 76.963 37.399 0.00 0.00  
ATOM 15272 3HG2 THR 1012 104.826 78.115 36.229 0.00 0.00  
ATOM 15273 OG1 THR 1012 105.912 78.564 38.753 0.00 0.00  
ATOM 15274 HG1 THR 1012 105.240 79.138 38.378 0.00 0.00  
ATOM 15275 C THR 1012 108.423 76.968 38.787 0.00 0.00  
ATOM 15276 O THR 1012 109.162 77.608 38.108 0.00 0.00  
ATOM 15277 N TYR 1013 108.701 76.668 40.082 0.00 0.00  
ATOM 15278 H TYR 1013 107.942 76.341 40.662 0.00 0.00  
ATOM 15279 CA TYR 1013 109.944 76.949 40.783 0.00 0.00  
ATOM 15280 HA TYR 1013 109.813 76.573 41.798 0.00 0.00  
ATOM 15281 CB TYR 1013 111.164 76.112 40.283 0.00 0.00  
ATOM 15282 HB2 TYR 1013 111.661 76.647 39.474 0.00 0.00  
ATOM 15283 HB3 TYR 1013 111.786 76.026 41.174 0.00 0.00  
ATOM 15284 CG TYR 1013 110.809 74.723 39.862 0.00 0.00

ATOM	15285	CD1	TYR	1013	110.327	73.739	40.698	0.00	0.00
ATOM	15286	HD1	TYR	1013	110.321	73.908	41.765	0.00	0.00
ATOM	15287	CE1	TYR	1013	110.000	72.501	40.149	0.00	0.00
ATOM	15288	HE1	TYR	1013	109.638	71.706	40.784	0.00	0.00
ATOM	15289	CZ	TYR	1013	110.130	72.266	38.740	0.00	0.00
ATOM	15290	OH	TYR	1013	109.831	71.009	38.275	0.00	0.00
ATOM	15291	HH	TYR	1013	109.659	70.460	39.044	0.00	0.00
ATOM	15292	CE2	TYR	1013	110.640	73.312	37.942	0.00	0.00
ATOM	15293	HE2	TYR	1013	110.762	73.215	36.873	0.00	0.00
ATOM	15294	CD2	TYR	1013	110.977	74.547	38.503	0.00	0.00
ATOM	15295	HD2	TYR	1013	111.382	75.334	37.884	0.00	0.00
ATOM	15296	C	TYR	1013	110.261	78.480	40.809	0.00	0.00
ATOM	15297	O	TYR	1013	110.764	79.100	39.875	0.00	0.00
ATOM	15298	N	GLY	1014	109.974	79.029	41.982	0.00	0.00
ATOM	15299	H	GLY	1014	109.455	78.472	42.646	0.00	0.00
ATOM	15300	CA	GLY	1014	110.300	80.381	42.472	0.00	0.00
ATOM	15301	HA2	GLY	1014	110.834	80.389	43.422	0.00	0.00
ATOM	15302	HA3	GLY	1014	110.906	80.884	41.718	0.00	0.00
ATOM	15303	C	GLY	1014	109.032	81.334	42.559	0.00	0.00
ATOM	15304	O	GLY	1014	109.254	82.535	42.881	0.00	0.00
ATOM	15305	N	GLU	1015	107.831	80.800	42.286	0.00	0.00
ATOM	15306	H	GLU	1015	107.774	79.800	42.156	0.00	0.00
ATOM	15307	CA	GLU	1015	106.473	81.517	42.247	0.00	0.00
ATOM	15308	HA	GLU	1015	106.599	82.520	42.654	0.00	0.00
ATOM	15309	CB	GLU	1015	106.058	81.602	40.768	0.00	0.00
ATOM	15310	HB2	GLU	1015	105.878	80.610	40.354	0.00	0.00



ATOM	15311	HB3	GLU	1015	105.109	82.137	40.761	0.00	0.00
ATOM	15312	CG	GLU	1015	106.932	82.433	39.694	0.00	0.00
ATOM	15313	HG2	GLU	1015	107.896	81.938	39.585	0.00	0.00
ATOM	15314	HG3	GLU	1015	106.360	82.328	38.772	0.00	0.00
ATOM	15315	CD	GLU	1015	107.048	83.886	39.943	0.00	0.00
ATOM	15316	OE1	GLU	1015	107.823	84.496	39.210	0.00	0.00
ATOM	15317	OE2	GLU	1015	106.363	84.404	40.837	0.00	0.00
ATOM	15318	C	GLU	1015	105.452	80.764	43.166	0.00	0.00
ATOM	15319	O	GLU	1015	104.273	80.518	42.665	0.00	0.00
ATOM	15320	N	GLU	1016	105.946	80.220	44.308	0.00	0.00
ATOM	15321	H	GLU	1016	106.842	80.448	44.714	0.00	0.00
ATOM	15322	CA	GLU	1016	105.018	79.435	45.161	0.00	0.00
ATOM	15323	HA	GLU	1016	104.356	78.782	44.593	0.00	0.00
ATOM	15324	CB	GLU	1016	105.813	78.517	46.131	0.00	0.00
ATOM	15325	HB2	GLU	1016	106.407	79.038	46.882	0.00	0.00
ATOM	15326	HB3	GLU	1016	105.106	78.127	46.864	0.00	0.00
ATOM	15327	CG	GLU	1016	106.660	77.366	45.455	0.00	0.00
ATOM	15328	HG2	GLU	1016	107.011	76.659	46.207	0.00	0.00
ATOM	15329	HG3	GLU	1016	105.889	76.801	44.932	0.00	0.00
ATOM	15330	CD	GLU	1016	107.781	77.766	44.462	0.00	0.00
ATOM	15331	OE1	GLU	1016	108.628	78.684	44.688	0.00	0.00
ATOM	15332	OE2	GLU	1016	107.741	77.193	43.336	0.00	0.00
ATOM	15333	C	GLU	1016	104.055	80.277	46.056	0.00	0.00
ATOM	15334	O	GLU	1016	104.333	81.345	46.603	0.00	0.00
ATOM	15335	N	VAL	1017	102.862	79.763	46.218	0.00	0.00
ATOM	15336	H	VAL	1017	102.687	78.815	45.914	0.00	0.00

ATOM	15337	CA	VAL	1017	101.690	80.508	46.718	0.00	0.00
ATOM	15338	HA	VAL	1017	101.781	81.528	46.343	0.00	0.00
ATOM	15339	CB	VAL	1017	100.314	79.945	46.121	0.00	0.00
ATOM	15340	HB	VAL	1017	99.457	80.414	46.603	0.00	0.00
ATOM	15341	CG1	VAL	1017	100.340	80.327	44.643	0.00	0.00
ATOM	15342	1HG1	VAL	1017	99.469	79.792	44.263	0.00	0.00
ATOM	15343	2HG1	VAL	1017	100.340	81.406	44.485	0.00	0.00
ATOM	15344	3HG1	VAL	1017	101.205	79.902	44.135	0.00	0.00
ATOM	15345	CG2	VAL	1017	100.082	78.441	46.370	0.00	0.00
ATOM	15346	1HG2	VAL	1017	99.185	78.116	45.844	0.00	0.00
ATOM	15347	2HG2	VAL	1017	101.014	77.945	46.099	0.00	0.00
ATOM	15348	3HG2	VAL	1017	100.018	78.267	47.444	0.00	0.00
ATOM	15349	C	VAL	1017	101.569	80.672	48.266	0.00	0.00
ATOM	15350	O	VAL	1017	100.561	80.368	48.865	0.00	0.00
ATOM	15351	N	LYS	1018	102.680	81.150	48.874	0.00	0.00
ATOM	15352	H	LYS	1018	103.472	81.372	48.287	0.00	0.00
ATOM	15353	CA	LYS	1018	102.826	81.480	50.286	0.00	0.00
ATOM	15354	HA	LYS	1018	102.331	80.725	50.897	0.00	0.00
ATOM	15355	CB	LYS	1018	104.228	81.580	50.761	0.00	0.00
ATOM	15356	HB2	LYS	1018	104.724	82.498	50.445	0.00	0.00
ATOM	15357	HB3	LYS	1018	104.899	80.756	50.519	0.00	0.00
ATOM	15358	CG	LYS	1018	104.305	81.523	52.354	0.00	0.00
ATOM	15359	HG2	LYS	1018	105.213	81.973	52.756	0.00	0.00
ATOM	15360	HG3	LYS	1018	103.537	82.144	52.816	0.00	0.00
ATOM	15361	CD	LYS	1018	104.387	80.092	52.964	0.00	0.00
ATOM	15362	HD2	LYS	1018	103.526	79.507	52.641	0.00	0.00

ATOM	15363	HD3	LYS	1018	105.310	79.560	52.737	0.00	0.00
ATOM	15364	CE	LYS	1018	104.342	80.051	54.536	0.00	0.00
ATOM	15365	HE2	LYS	1018	104.999	80.882	54.794	0.00	0.00
ATOM	15366	HE3	LYS	1018	103.290	80.292	54.689	0.00	0.00
ATOM	15367	NZ	LYS	1018	104.649	78.743	55.083	0.00	0.00
ATOM	15368	HZ1	LYS	1018	105.553	78.426	54.764	0.00	0.00
ATOM	15369	HZ2	LYS	1018	104.730	78.654	56.086	0.00	0.00
ATOM	15370	HZ3	LYS	1018	103.873	78.134	54.864	0.00	0.00
ATOM	15371	C	LYS	1018	102.147	82.702	50.708	0.00	0.00
ATOM	15372	O	LYS	1018	102.403	83.732	50.118	0.00	0.00
ATOM	15373	N	PHE	1019	101.253	82.659	51.662	0.00	0.00
ATOM	15374	H	PHE	1019	101.033	81.744	52.030	0.00	0.00
ATOM	15375	CA	PHE	1019	100.603	83.802	52.286	0.00	0.00
ATOM	15376	HA	PHE	1019	100.447	84.529	51.490	0.00	0.00
ATOM	15377	CB	PHE	1019	99.131	83.392	52.669	0.00	0.00
ATOM	15378	HB2	PHE	1019	98.657	82.915	51.811	0.00	0.00
ATOM	15379	HB3	PHE	1019	99.172	82.537	53.344	0.00	0.00
ATOM	15380	CG	PHE	1019	98.203	84.371	53.284	0.00	0.00
ATOM	15381	CD1	PHE	1019	97.663	85.318	52.392	0.00	0.00
ATOM	15382	HD1	PHE	1019	97.789	85.272	51.320	0.00	0.00
ATOM	15383	CE1	PHE	1019	97.033	86.430	52.924	0.00	0.00
ATOM	15384	HE1	PHE	1019	96.689	87.169	52.215	0.00	0.00
ATOM	15385	CZ	PHE	1019	96.789	86.494	54.329	0.00	0.00
ATOM	15386	HZ	PHE	1019	96.312	87.345	54.793	0.00	0.00
ATOM	15387	CE2	PHE	1019	97.265	85.523	55.218	0.00	0.00
ATOM	15388	HE2	PHE	1019	97.012	85.594	56.266	0.00	0.00

ATOM	15389	CD2	PHE	1019	98.040	84.457	54.707	0.00	0.00
ATOM	15390	HD2	PHE	1019	98.348	83.663	55.371	0.00	0.00
ATOM	15391	C	PHE	1019	101.300	84.398	53.518	0.00	0.00
ATOM	15392	O	PHE	1019	101.781	83.627	54.341	0.00	0.00
ATOM	15393	N	GLY	1020	101.134	85.688	53.720	0.00	0.00
ATOM	15394	H	GLY	1020	100.706	86.267	53.011	0.00	0.00
ATOM	15395	CA	GLY	1020	101.457	86.501	54.873	0.00	0.00
ATOM	15396	HA2	GLY	1020	100.536	86.923	55.275	0.00	0.00
ATOM	15397	HA3	GLY	1020	102.043	85.907	55.574	0.00	0.00
ATOM	15398	C	GLY	1020	102.257	87.701	54.532	0.00	0.00
ATOM	15399	O	GLY	1020	102.681	87.887	53.360	0.00	0.00
ATOM	15400	N	GLY	1021	102.598	88.463	55.517	0.00	0.00
ATOM	15401	H	GLY	1021	102.140	88.230	56.386	0.00	0.00
ATOM	15402	CA	GLY	1021	103.362	89.757	55.246	0.00	0.00
ATOM	15403	HA2	GLY	1021	102.850	90.297	54.450	0.00	0.00
ATOM	15404	HA3	GLY	1021	103.480	90.328	56.167	0.00	0.00
ATOM	15405	C	GLY	1021	104.768	89.458	54.764	0.00	0.00
ATOM	15406	O	GLY	1021	105.447	88.605	55.323	0.00	0.00
ATOM	15407	N	GLY	1022	105.187	90.042	53.627	0.00	0.00
ATOM	15408	H	GLY	1022	104.708	90.852	53.260	0.00	0.00
ATOM	15409	CA	GLY	1022	106.405	89.812	52.844	0.00	0.00
ATOM	15410	HA2	GLY	1022	106.593	90.724	52.278	0.00	0.00
ATOM	15411	HA3	GLY	1022	107.136	89.548	53.609	0.00	0.00
ATOM	15412	C	GLY	1022	106.336	88.528	51.967	0.00	0.00
ATOM	15413	O	GLY	1022	107.403	87.961	51.662	0.00	0.00
ATOM	15414	N	LYS	1023	105.147	87.906	51.823	0.00	0.00

ATOM	15415	H	LYS	1023	104.316	88.319	52.221	0.00	0.00
ATOM	15416	CA	LYS	1023	104.886	86.625	51.142	0.00	0.00
ATOM	15417	HA	LYS	1023	105.875	86.239	50.892	0.00	0.00
ATOM	15418	CB	LYS	1023	104.164	85.630	52.007	0.00	0.00
ATOM	15419	HB2	LYS	1023	103.113	85.914	52.067	0.00	0.00
ATOM	15420	HB3	LYS	1023	104.189	84.633	51.567	0.00	0.00
ATOM	15421	CG	LYS	1023	104.744	85.340	53.367	0.00	0.00
ATOM	15422	HG2	LYS	1023	104.719	86.244	53.976	0.00	0.00
ATOM	15423	HG3	LYS	1023	104.044	84.670	53.868	0.00	0.00
ATOM	15424	CD	LYS	1023	106.213	84.878	53.444	0.00	0.00
ATOM	15425	HD2	LYS	1023	106.351	84.046	52.753	0.00	0.00
ATOM	15426	HD3	LYS	1023	106.946	85.658	53.240	0.00	0.00
ATOM	15427	CE	LYS	1023	106.561	84.314	54.860	0.00	0.00
ATOM	15428	HE2	LYS	1023	106.397	85.180	55.502	0.00	0.00
ATOM	15429	HE3	LYS	1023	105.982	83.399	54.984	0.00	0.00
ATOM	15430	NZ	LYS	1023	107.970	83.866	54.946	0.00	0.00
ATOM	15431	HZ1	LYS	1023	108.342	84.078	55.861	0.00	0.00
ATOM	15432	HZ2	LYS	1023	108.108	82.869	54.865	0.00	0.00
ATOM	15433	HZ3	LYS	1023	108.531	84.344	54.255	0.00	0.00
ATOM	15434	C	LYS	1023	104.191	86.826	49.692	0.00	0.00
ATOM	15435	O	LYS	1023	103.909	88.003	49.411	0.00	0.00
ATOM	15436	N	VAL	1024	103.969	85.824	48.857	0.00	0.00
ATOM	15437	H	VAL	1024	104.142	84.874	49.152	0.00	0.00
ATOM	15438	CA	VAL	1024	103.800	85.996	47.408	0.00	0.00
ATOM	15439	HA	VAL	1024	104.517	86.650	46.911	0.00	0.00
ATOM	15440	CB	VAL	1024	104.027	84.728	46.637	0.00	0.00

ATOM	15441	HB	VAL	1024	103.409	83.930	47.047	0.00	0.00
ATOM	15442	CG1	VAL	1024	103.808	84.838	45.140	0.00	0.00
ATOM	15443	1HG1	VAL	1024	104.534	85.513	44.686	0.00	0.00
ATOM	15444	2HG1	VAL	1024	103.892	83.844	44.700	0.00	0.00
ATOM	15445	3HG1	VAL	1024	102.808	85.234	44.960	0.00	0.00
ATOM	15446	CG2	VAL	1024	105.443	84.250	46.806	0.00	0.00
ATOM	15447	1HG2	VAL	1024	105.621	83.336	46.238	0.00	0.00
ATOM	15448	2HG2	VAL	1024	106.210	84.992	46.583	0.00	0.00
ATOM	15449	3HG2	VAL	1024	105.600	83.916	47.832	0.00	0.00
ATOM	15450	C	VAL	1024	102.493	86.652	47.080	0.00	0.00
ATOM	15451	O	VAL	1024	102.418	87.554	46.266	0.00	0.00
ATOM	15452	N	ILE	1025	101.444	86.198	47.748	0.00	0.00
ATOM	15453	H	ILE	1025	101.474	85.567	48.536	0.00	0.00
ATOM	15454	CA	ILE	1025	100.061	86.466	47.227	0.00	0.00
ATOM	15455	HA	ILE	1025	100.169	86.809	46.199	0.00	0.00
ATOM	15456	CB	ILE	1025	99.218	85.118	47.148	0.00	0.00
ATOM	15457	HB	ILE	1025	98.198	85.448	46.951	0.00	0.00
ATOM	15458	CG2	ILE	1025	99.767	84.159	46.037	0.00	0.00
ATOM	15459	1HG2	ILE	1025	99.018	83.394	45.831	0.00	0.00
ATOM	15460	2HG2	ILE	1025	99.818	84.785	45.146	0.00	0.00
ATOM	15461	3HG2	ILE	1025	100.726	83.692	46.262	0.00	0.00
ATOM	15462	CG1	ILE	1025	99.197	84.320	48.460	0.00	0.00
ATOM	15463	2HG1	ILE	1025	100.109	83.723	48.456	0.00	0.00
ATOM	15464	3HG1	ILE	1025	99.249	85.081	49.239	0.00	0.00
ATOM	15465	CD1	ILE	1025	97.981	83.539	48.752	0.00	0.00
ATOM	15466	1HD1	ILE	1025	98.247	82.957	49.635	0.00	0.00

ATOM 15467 2HD1 ILE 1025 97.187 84.272 48.888 0.00 0.00  
ATOM 15468 3HD1 ILE 1025 97.737 82.763 48.026 0.00 0.00  
ATOM 15469 C ILE 1025 99.213 87.609 47.882 0.00 0.00  
ATOM 15470 O ILE 1025 98.322 87.356 48.697 0.00 0.00  
ATOM 15471 N ARG 1026 99.557 88.865 47.477 0.00 0.00  
ATOM 15472 H ARG 1026 100.274 88.925 46.768 0.00 0.00  
ATOM 15473 CA ARG 1026 99.278 90.125 48.139 0.00 0.00  
ATOM 15474 HA ARG 1026 98.378 89.956 48.729 0.00 0.00  
ATOM 15475 CB ARG 1026 100.384 90.428 49.093 0.00 0.00  
ATOM 15476 HB2 ARG 1026 101.313 90.395 48.524 0.00 0.00  
ATOM 15477 HB3 ARG 1026 100.164 91.405 49.524 0.00 0.00  
ATOM 15478 CG ARG 1026 100.375 89.424 50.220 0.00 0.00  
ATOM 15479 HG2 ARG 1026 99.366 89.194 50.561 0.00 0.00  
ATOM 15480 HG3 ARG 1026 100.848 88.468 49.999 0.00 0.00  
ATOM 15481 CD ARG 1026 101.181 90.069 51.447 0.00 0.00  
ATOM 15482 HD2 ARG 1026 100.644 90.992 51.664 0.00 0.00  
ATOM 15483 HD3 ARG 1026 101.267 89.393 52.298 0.00 0.00  
ATOM 15484 NE ARG 1026 102.633 90.290 51.039 0.00 0.00  
ATOM 15485 HE ARG 1026 103.019 89.522 50.509 0.00 0.00  
ATOM 15486 CZ ARG 1026 103.421 91.303 51.234 0.00 0.00  
ATOM 15487 NH1 ARG 1026 103.140 92.183 52.123 0.00 0.00  
ATOM 15488 1HH1 ARG 1026 103.842 92.790 52.521 0.00 0.00  
ATOM 15489 2HH1 ARG 1026 102.300 92.045 52.666 0.00 0.00  
ATOM 15490 NH2 ARG 1026 104.585 91.382 50.637 0.00 0.00  
ATOM 15491 1HH2 ARG 1026 105.197 92.058 51.071 0.00 0.00  
ATOM 15492 2HH2 ARG 1026 104.850 90.694 49.946 0.00 0.00

ATOM	15493	C	ARG	1026	99.166	91.154	47.037	0.00	0.00
ATOM	15494	O	ARG	1026	99.568	90.902	45.927	0.00	0.00
ATOM	15495	N	ASP	1027	98.573	92.274	47.396	0.00	0.00
ATOM	15496	H	ASP	1027	98.221	92.362	48.339	0.00	0.00
ATOM	15497	CA	ASP	1027	98.297	93.382	46.492	0.00	0.00
ATOM	15498	HA	ASP	1027	97.633	93.039	45.699	0.00	0.00
ATOM	15499	CB	ASP	1027	97.597	94.485	47.212	0.00	0.00
ATOM	15500	HB2	ASP	1027	96.645	94.098	47.575	0.00	0.00
ATOM	15501	HB3	ASP	1027	98.229	94.781	48.050	0.00	0.00
ATOM	15502	CG	ASP	1027	97.294	95.681	46.379	0.00	0.00
ATOM	15503	OD1	ASP	1027	97.052	95.561	45.134	0.00	0.00
ATOM	15504	OD2	ASP	1027	97.287	96.828	46.905	0.00	0.00
ATOM	15505	C	ASP	1027	99.626	93.917	45.810	0.00	0.00
ATOM	15506	O	ASP	1027	100.673	93.771	46.373	0.00	0.00
ATOM	15507	N	GLY	1028	99.583	94.380	44.588	0.00	0.00
ATOM	15508	H	GLY	1028	98.638	94.379	44.230	0.00	0.00
ATOM	15509	CA	GLY	1028	100.654	94.636	43.640	0.00	0.00
ATOM	15510	HA2	GLY	1028	100.220	95.273	42.870	0.00	0.00
ATOM	15511	HA3	GLY	1028	101.423	95.212	44.155	0.00	0.00
ATOM	15512	C	GLY	1028	101.299	93.418	42.978	0.00	0.00
ATOM	15513	O	GLY	1028	101.484	93.409	41.743	0.00	0.00
ATOM	15514	N	MET	1029	101.591	92.383	43.751	0.00	0.00
ATOM	15515	H	MET	1029	101.232	92.451	44.693	0.00	0.00
ATOM	15516	CA	MET	1029	102.250	91.101	43.503	0.00	0.00
ATOM	15517	HA	MET	1029	102.767	91.057	42.545	0.00	0.00
ATOM	15518	CB	MET	1029	103.299	90.852	44.609	0.00	0.00



ATOM	15519	HB2	MET	1029	103.923	89.988	44.378	0.00	0.00
ATOM	15520	HB3	MET	1029	104.052	91.637	44.535	0.00	0.00
ATOM	15521	CG	MET	1029	102.704	90.746	46.051	0.00	0.00
ATOM	15522	HG2	MET	1029	102.193	91.690	46.240	0.00	0.00
ATOM	15523	HG3	MET	1029	102.007	89.921	46.192	0.00	0.00
ATOM	15524	SD	MET	1029	103.920	91.003	47.382	0.00	0.00
ATOM	15525	CE	MET	1029	103.748	92.820	47.613	0.00	0.00
ATOM	15526	HE1	MET	1029	103.968	93.450	46.751	0.00	0.00
ATOM	15527	HE2	MET	1029	102.720	93.038	47.901	0.00	0.00
ATOM	15528	HE3	MET	1029	104.435	93.083	48.418	0.00	0.00
ATOM	15529	C	MET	1029	101.189	90.001	43.279	0.00	0.00
ATOM	15530	O	MET	1029	100.379	90.081	42.423	0.00	0.00
ATOM	15531	N	GLY	1030	101.277	88.873	43.945	0.00	0.00
ATOM	15532	H	GLY	1030	102.015	88.903	44.633	0.00	0.00
ATOM	15533	CA	GLY	1030	100.467	87.678	43.671	0.00	0.00
ATOM	15534	HA2	GLY	1030	100.654	87.237	42.692	0.00	0.00
ATOM	15535	HA3	GLY	1030	100.976	86.929	44.277	0.00	0.00
ATOM	15536	C	GLY	1030	98.904	87.728	44.018	0.00	0.00
ATOM	15537	O	GLY	1030	98.240	86.700	43.862	0.00	0.00
ATOM	15538	N	GLN	1031	98.361	88.881	44.388	0.00	0.00
ATOM	15539	H	GLN	1031	98.903	89.731	44.450	0.00	0.00
ATOM	15540	CA	GLN	1031	96.921	89.144	44.272	0.00	0.00
ATOM	15541	HA	GLN	1031	96.370	88.210	44.162	0.00	0.00
ATOM	15542	CB	GLN	1031	96.530	89.886	45.566	0.00	0.00
ATOM	15543	HB2	GLN	1031	96.888	89.230	46.359	0.00	0.00
ATOM	15544	HB3	GLN	1031	97.070	90.830	45.637	0.00	0.00

ATOM	15545	CG	GLN	1031	94.978	90.138	45.739	0.00	0.00
ATOM	15546	HG2	GLN	1031	94.767	90.650	44.800	0.00	0.00
ATOM	15547	HG3	GLN	1031	94.331	89.268	45.846	0.00	0.00
ATOM	15548	CD	GLN	1031	94.664	90.951	46.989	0.00	0.00
ATOM	15549	OE1	GLN	1031	94.373	90.406	48.065	0.00	0.00
ATOM	15550	NE2	GLN	1031	94.809	92.264	46.899	0.00	0.00
ATOM	15551	1HE2	GLN	1031	95.001	92.726	47.776	0.00	0.00
ATOM	15552	2HE2	GLN	1031	95.008	92.625	45.977	0.00	0.00
ATOM	15553	C	GLN	1031	96.650	90.093	43.138	0.00	0.00
ATOM	15554	O	GLN	1031	97.242	91.166	42.970	0.00	0.00
ATOM	15555	N	GLY	1032	95.783	89.747	42.205	0.00	0.00
ATOM	15556	H	GLY	1032	95.270	88.880	42.138	0.00	0.00
ATOM	15557	CA	GLY	1032	95.621	90.499	40.961	0.00	0.00
ATOM	15558	HA2	GLY	1032	96.615	90.604	40.524	0.00	0.00
ATOM	15559	HA3	GLY	1032	95.130	89.823	40.261	0.00	0.00
ATOM	15560	C	GLY	1032	94.976	91.841	41.151	0.00	0.00
ATOM	15561	O	GLY	1032	94.208	92.001	42.086	0.00	0.00
ATOM	15562	N	GLN	1033	95.108	92.764	40.147	0.00	0.00
ATOM	15563	H	GLN	1033	95.717	92.547	39.370	0.00	0.00
ATOM	15564	CA	GLN	1033	94.376	94.001	40.059	0.00	0.00
ATOM	15565	HA	GLN	1033	94.087	94.313	41.063	0.00	0.00
ATOM	15566	CB	GLN	1033	95.271	95.055	39.337	0.00	0.00
ATOM	15567	HB2	GLN	1033	95.466	94.683	38.332	0.00	0.00
ATOM	15568	HB3	GLN	1033	94.702	95.982	39.411	0.00	0.00
ATOM	15569	CG	GLN	1033	96.552	95.434	39.963	0.00	0.00
ATOM	15570	HG2	GLN	1033	97.329	94.669	39.954	0.00	0.00

ATOM	15571	HG3	GLN	1033	96.973	96.302	39.454	0.00	0.00
ATOM	15572	CD	GLN	1033	96.538	96.024	41.406	0.00	0.00
ATOM	15573	OE1	GLN	1033	95.855	97.048	41.611	0.00	0.00
ATOM	15574	NE2	GLN	1033	96.981	95.351	42.380	0.00	0.00
ATOM	15575	1HE2	GLN	1033	96.938	95.718	43.319	0.00	0.00
ATOM	15576	2HE2	GLN	1033	97.435	94.489	42.113	0.00	0.00
ATOM	15577	C	GLN	1033	92.988	93.907	39.426	0.00	0.00
ATOM	15578	O	GLN	1033	92.366	94.922	39.126	0.00	0.00
ATOM	15579	N	MET	1034	92.402	92.706	39.244	0.00	0.00
ATOM	15580	H	MET	1034	92.951	91.858	39.279	0.00	0.00
ATOM	15581	CA	MET	1034	91.146	92.554	38.556	0.00	0.00
ATOM	15582	HA	MET	1034	91.133	93.345	37.807	0.00	0.00
ATOM	15583	CB	MET	1034	91.103	91.139	38.003	0.00	0.00
ATOM	15584	HB2	MET	1034	90.294	91.178	37.274	0.00	0.00
ATOM	15585	HB3	MET	1034	92.035	91.001	37.455	0.00	0.00
ATOM	15586	CG	MET	1034	90.969	89.947	38.922	0.00	0.00
ATOM	15587	HG2	MET	1034	90.402	90.293	39.786	0.00	0.00
ATOM	15588	HG3	MET	1034	90.445	89.146	38.402	0.00	0.00
ATOM	15589	SD	MET	1034	92.573	89.363	39.496	0.00	0.00
ATOM	15590	CE	MET	1034	93.230	88.579	38.010	0.00	0.00
ATOM	15591	HE1	MET	1034	94.000	87.940	38.442	0.00	0.00
ATOM	15592	HE2	MET	1034	92.499	88.048	37.400	0.00	0.00
ATOM	15593	HE3	MET	1034	93.691	89.314	37.350	0.00	0.00
ATOM	15594	C	MET	1034	89.964	92.782	39.523	0.00	0.00
ATOM	15595	O	MET	1034	90.177	93.022	40.673	0.00	0.00
ATOM	15596	N	LEU	1035	88.739	92.570	39.031	0.00	0.00

ATOM 15597	H	LEU	1035	88.633	92.109	38.139	0.00	0.00
ATOM 15598	CA	LEU	1035	87.481	92.761	39.773	0.00	0.00
ATOM 15599	HA	LEU	1035	87.574	93.698	40.321	0.00	0.00
ATOM 15600	CB	LEU	1035	86.382	92.903	38.737	0.00	0.00
ATOM 15601	HB2	LEU	1035	86.366	91.996	38.133	0.00	0.00
ATOM 15602	HB3	LEU	1035	85.392	93.101	39.149	0.00	0.00
ATOM 15603	CG	LEU	1035	86.595	94.108	37.725	0.00	0.00
ATOM 15604	HG	LEU	1035	87.555	93.959	37.231	0.00	0.00
ATOM 15605	CD1	LEU	1035	85.528	93.978	36.648	0.00	0.00
ATOM 15606	1HD1	LEU	1035	85.858	94.620	35.832	0.00	0.00
ATOM 15607	2HD1	LEU	1035	85.517	92.936	36.329	0.00	0.00
ATOM 15608	3HD1	LEU	1035	84.539	94.269	37.004	0.00	0.00
ATOM 15609	CD2	LEU	1035	86.525	95.493	38.428	0.00	0.00
ATOM 15610	1HD2	LEU	1035	87.351	95.641	39.125	0.00	0.00
ATOM 15611	2HD2	LEU	1035	86.556	96.261	37.656	0.00	0.00
ATOM 15612	3HD2	LEU	1035	85.621	95.586	39.030	0.00	0.00
ATOM 15613	C	LEU	1035	87.252	91.650	40.780	0.00	0.00
ATOM 15614	O	LEU	1035	87.700	90.532	40.733	0.00	0.00
ATOM 15615	N	ALA	1036	86.398	91.909	41.771	0.00	0.00
ATOM 15616	H	ALA	1036	86.004	92.834	41.868	0.00	0.00
ATOM 15617	CA	ALA	1036	85.933	91.015	42.755	0.00	0.00
ATOM 15618	HA	ALA	1036	86.736	90.580	43.350	0.00	0.00
ATOM 15619	CB	ALA	1036	84.918	91.778	43.701	0.00	0.00
ATOM 15620	HB1	ALA	1036	85.280	92.716	44.123	0.00	0.00
ATOM 15621	HB2	ALA	1036	84.045	92.013	43.093	0.00	0.00
ATOM 15622	HB3	ALA	1036	84.621	91.101	44.502	0.00	0.00

ATOM	15623	C	ALA	1036	85.239	89.741	42.180	0.00	0.00
ATOM	15624	O	ALA	1036	85.187	88.728	42.839	0.00	0.00
ATOM	15625	N	ALA	1037	84.770	89.857	40.921	0.00	0.00
ATOM	15626	H	ALA	1037	84.609	90.785	40.559	0.00	0.00
ATOM	15627	CA	ALA	1037	84.200	88.700	40.192	0.00	0.00
ATOM	15628	HA	ALA	1037	83.672	88.044	40.885	0.00	0.00
ATOM	15629	CB	ALA	1037	83.212	89.376	39.172	0.00	0.00
ATOM	15630	HB1	ALA	1037	82.554	90.014	39.762	0.00	0.00
ATOM	15631	HB2	ALA	1037	83.771	89.977	38.455	0.00	0.00
ATOM	15632	HB3	ALA	1037	82.567	88.629	38.710	0.00	0.00
ATOM	15633	C	ALA	1037	85.121	87.871	39.332	0.00	0.00
ATOM	15634	O	ALA	1037	84.733	86.848	38.841	0.00	0.00
ATOM	15635	N	ASP	1038	86.248	88.324	38.894	0.00	0.00
ATOM	15636	H	ASP	1038	86.610	89.132	39.381	0.00	0.00
ATOM	15637	CA	ASP	1038	87.178	87.608	37.988	0.00	0.00
ATOM	15638	HA	ASP	1038	86.564	86.858	37.491	0.00	0.00
ATOM	15639	CB	ASP	1038	87.696	88.638	37.057	0.00	0.00
ATOM	15640	HB2	ASP	1038	86.804	89.118	36.655	0.00	0.00
ATOM	15641	HB3	ASP	1038	88.370	89.333	37.557	0.00	0.00
ATOM	15642	CG	ASP	1038	88.614	87.952	36.025	0.00	0.00
ATOM	15643	OD1	ASP	1038	88.027	87.454	35.026	0.00	0.00
ATOM	15644	OD2	ASP	1038	89.871	87.963	36.128	0.00	0.00
ATOM	15645	C	ASP	1038	88.278	86.823	38.693	0.00	0.00
ATOM	15646	O	ASP	1038	88.687	85.808	38.150	0.00	0.00
ATOM	15647	N	CYS	1039	88.540	87.107	40.007	0.00	0.00
ATOM	15648	H	CYS	1039	88.147	87.914	40.471	0.00	0.00

ATOM	15649	CA	CYS	1039	89.216	86.278	40.925	0.00	0.00
ATOM	15650	HA	CYS	1039	89.847	85.577	40.378	0.00	0.00
ATOM	15651	CB	CYS	1039	90.082	87.089	41.925	0.00	0.00
ATOM	15652	HB2	CYS	1039	90.487	86.431	42.695	0.00	0.00
ATOM	15653	HB3	CYS	1039	90.932	87.531	41.405	0.00	0.00
ATOM	15654	SG	CYS	1039	89.077	88.382	42.791	0.00	0.00
ATOM	15655	HG	CYS	1039	88.951	89.273	41.805	0.00	0.00
ATOM	15656	C	CYS	1039	88.283	85.345	41.713	0.00	0.00
ATOM	15657	O	CYS	1039	87.116	85.737	42.017	0.00	0.00
ATOM	15658	N	VAL	1040	88.752	84.148	42.199	0.00	0.00
ATOM	15659	H	VAL	1040	89.670	83.940	41.832	0.00	0.00
ATOM	15660	CA	VAL	1040	87.980	83.299	43.024	0.00	0.00
ATOM	15661	HA	VAL	1040	87.009	83.324	42.531	0.00	0.00
ATOM	15662	CB	VAL	1040	88.615	81.904	43.117	0.00	0.00
ATOM	15663	HB	VAL	1040	88.098	81.116	43.664	0.00	0.00
ATOM	15664	CG1	VAL	1040	88.636	81.345	41.738	0.00	0.00
ATOM	15665	1HG1	VAL	1040	87.593	81.209	41.452	0.00	0.00
ATOM	15666	2HG1	VAL	1040	89.220	81.880	40.989	0.00	0.00
ATOM	15667	3HG1	VAL	1040	88.999	80.318	41.779	0.00	0.00
ATOM	15668	CG2	VAL	1040	90.041	81.880	43.717	0.00	0.00
ATOM	15669	1HG2	VAL	1040	90.040	82.391	44.680	0.00	0.00
ATOM	15670	2HG2	VAL	1040	90.316	80.834	43.847	0.00	0.00
ATOM	15671	3HG2	VAL	1040	90.687	82.404	43.013	0.00	0.00
ATOM	15672	C	VAL	1040	87.738	83.809	44.450	0.00	0.00
ATOM	15673	O	VAL	1040	88.501	84.582	44.984	0.00	0.00
ATOM	15674	N	ASP	1041	86.667	83.290	45.085	0.00	0.00

ATOM	15675	H	ASP	1041	85.972	82.688	44.667	0.00	0.00
ATOM	15676	CA	ASP	1041	86.230	83.917	46.412	0.00	0.00
ATOM	15677	HA	ASP	1041	86.239	85.004	46.325	0.00	0.00
ATOM	15678	CB	ASP	1041	84.711	83.510	46.661	0.00	0.00
ATOM	15679	HB2	ASP	1041	84.674	82.440	46.866	0.00	0.00
ATOM	15680	HB3	ASP	1041	84.411	84.053	47.557	0.00	0.00
ATOM	15681	CG	ASP	1041	83.659	83.822	45.544	0.00	0.00
ATOM	15682	OD1	ASP	1041	82.741	83.026	45.347	0.00	0.00
ATOM	15683	OD2	ASP	1041	83.737	84.839	44.862	0.00	0.00
ATOM	15684	C	ASP	1041	87.047	83.258	47.608	0.00	0.00
ATOM	15685	O	ASP	1041	87.150	83.775	48.747	0.00	0.00
ATOM	15686	N	LEU	1042	87.593	82.066	47.304	0.00	0.00
ATOM	15687	H	LEU	1042	87.529	81.759	46.344	0.00	0.00
ATOM	15688	CA	LEU	1042	88.440	81.183	48.207	0.00	0.00
ATOM	15689	HA	LEU	1042	89.009	81.844	48.862	0.00	0.00
ATOM	15690	CB	LEU	1042	87.363	80.420	49.040	0.00	0.00
ATOM	15691	HB2	LEU	1042	86.795	81.107	49.666	0.00	0.00
ATOM	15692	HB3	LEU	1042	86.599	80.095	48.333	0.00	0.00
ATOM	15693	CG	LEU	1042	87.903	79.222	49.825	0.00	0.00
ATOM	15694	HG	LEU	1042	88.606	78.600	49.272	0.00	0.00
ATOM	15695	CD1	LEU	1042	88.791	79.606	51.039	0.00	0.00
ATOM	15696	1HD1	LEU	1042	88.364	80.360	51.701	0.00	0.00
ATOM	15697	2HD1	LEU	1042	88.906	78.766	51.725	0.00	0.00
ATOM	15698	3HD1	LEU	1042	89.752	79.949	50.656	0.00	0.00
ATOM	15699	CD2	LEU	1042	86.792	78.241	50.246	0.00	0.00
ATOM	15700	1HD2	LEU	1042	87.204	77.497	50.928	0.00	0.00

ATOM 15701	2HD2	LEU	1042	86.054	78.773	50.847	0.00	0.00
ATOM 15702	3HD2	LEU	1042	86.370	77.742	49.373	0.00	0.00
ATOM 15703	C	LEU	1042	89.298	80.152	47.440	0.00	0.00
ATOM 15704	O	LEU	1042	88.842	79.439	46.529	0.00	0.00
ATOM 15705	N	VAL	1043	90.585	80.177	47.818	0.00	0.00
ATOM 15706	H	VAL	1043	90.806	80.776	48.601	0.00	0.00
ATOM 15707	CA	VAL	1043	91.642	79.351	47.260	0.00	0.00
ATOM 15708	HA	VAL	1043	91.257	78.691	46.483	0.00	0.00
ATOM 15709	CB	VAL	1043	92.668	80.135	46.333	0.00	0.00
ATOM 15710	HB	VAL	1043	92.035	80.696	45.646	0.00	0.00
ATOM 15711	CG1	VAL	1043	93.497	81.134	47.089	0.00	0.00
ATOM 15712	1HG1	VAL	1043	92.730	81.822	47.443	0.00	0.00
ATOM 15713	2HG1	VAL	1043	94.081	80.688	47.894	0.00	0.00
ATOM 15714	3HG1	VAL	1043	94.144	81.626	46.363	0.00	0.00
ATOM 15715	CG2	VAL	1043	93.490	79.119	45.519	0.00	0.00
ATOM 15716	1HG2	VAL	1043	93.988	78.414	46.185	0.00	0.00
ATOM 15717	2HG2	VAL	1043	92.714	78.597	44.959	0.00	0.00
ATOM 15718	3HG2	VAL	1043	94.107	79.709	44.841	0.00	0.00
ATOM 15719	C	VAL	1043	92.249	78.472	48.324	0.00	0.00
ATOM 15720	O	VAL	1043	92.619	78.995	49.385	0.00	0.00
ATOM 15721	N	LEU	1044	92.220	77.136	48.079	0.00	0.00
ATOM 15722	H	LEU	1044	91.811	76.823	47.210	0.00	0.00
ATOM 15723	CA	LEU	1044	92.863	76.100	48.918	0.00	0.00
ATOM 15724	HA	LEU	1044	92.993	76.444	49.944	0.00	0.00
ATOM 15725	CB	LEU	1044	91.875	74.928	48.923	0.00	0.00
ATOM 15726	HB2	LEU	1044	90.902	75.253	49.293	0.00	0.00



ATOM	15727	HB3	LEU	1044	91.883	74.542	47.903	0.00	0.00
ATOM	15728	CG	LEU	1044	92.105	73.805	49.933	0.00	0.00
ATOM	15729	HG	LEU	1044	92.341	74.200	50.921	0.00	0.00
ATOM	15730	CD1	LEU	1044	90.898	72.974	50.063	0.00	0.00
ATOM	15731	1HD1	LEU	1044	90.605	72.582	49.089	0.00	0.00
ATOM	15732	2HD1	LEU	1044	91.079	72.211	50.820	0.00	0.00
ATOM	15733	3HD1	LEU	1044	90.093	73.598	50.450	0.00	0.00
ATOM	15734	CD2	LEU	1044	93.206	72.754	49.620	0.00	0.00
ATOM	15735	1HD2	LEU	1044	93.089	72.401	48.596	0.00	0.00
ATOM	15736	2HD2	LEU	1044	94.189	73.224	49.600	0.00	0.00
ATOM	15737	3HD2	LEU	1044	93.189	71.938	50.342	0.00	0.00
ATOM	15738	C	LEU	1044	94.278	75.789	48.338	0.00	0.00
ATOM	15739	O	LEU	1044	94.374	75.276	47.231	0.00	0.00
ATOM	15740	N	THR	1045	95.368	76.141	49.015	0.00	0.00
ATOM	15741	H	THR	1045	95.187	76.502	49.940	0.00	0.00
ATOM	15742	CA	THR	1045	96.711	76.315	48.514	0.00	0.00
ATOM	15743	HA	THR	1045	96.623	76.294	47.428	0.00	0.00
ATOM	15744	CB	THR	1045	97.207	77.737	48.753	0.00	0.00
ATOM	15745	HB	THR	1045	98.213	77.842	48.347	0.00	0.00
ATOM	15746	CG2	THR	1045	96.376	78.765	48.032	0.00	0.00
ATOM	15747	1HG2	THR	1045	95.300	78.658	48.167	0.00	0.00
ATOM	15748	2HG2	THR	1045	96.797	79.680	48.448	0.00	0.00
ATOM	15749	3HG2	THR	1045	96.680	78.720	46.986	0.00	0.00
ATOM	15750	OG1	THR	1045	97.275	78.096	50.125	0.00	0.00
ATOM	15751	HG1	THR	1045	96.483	77.721	50.516	0.00	0.00
ATOM	15752	C	THR	1045	97.687	75.371	49.071	0.00	0.00

ATOM	15753	O	THR	1045	97.601	74.994	50.262	0.00	0.00
ATOM	15754	N	ASN	1046	98.621	74.951	48.278	0.00	0.00
ATOM	15755	H	ASN	1046	98.630	75.248	47.313	0.00	0.00
ATOM	15756	CA	ASN	1046	99.686	74.094	48.625	0.00	0.00
ATOM	15757	HA	ASN	1046	100.080	73.753	47.667	0.00	0.00
ATOM	15758	CB	ASN	1046	100.858	75.049	49.143	0.00	0.00
ATOM	15759	HB2	ASN	1046	100.982	75.909	48.484	0.00	0.00
ATOM	15760	HB3	ASN	1046	100.578	75.372	50.146	0.00	0.00
ATOM	15761	CG	ASN	1046	102.168	74.281	49.153	0.00	0.00
ATOM	15762	OD1	ASN	1046	102.272	73.171	48.613	0.00	0.00
ATOM	15763	ND2	ASN	1046	103.055	74.713	49.975	0.00	0.00
ATOM	15764	1HD2	ASN	1046	103.885	74.145	50.067	0.00	0.00
ATOM	15765	2HD2	ASN	1046	103.137	75.670	50.286	0.00	0.00
ATOM	15766	C	ASN	1046	99.389	72.763	49.438	0.00	0.00
ATOM	15767	O	ASN	1046	100.236	72.312	50.191	0.00	0.00
ATOM	15768	N	ALA	1047	98.231	72.116	49.246	0.00	0.00
ATOM	15769	H	ALA	1047	97.509	72.578	48.711	0.00	0.00
ATOM	15770	CA	ALA	1047	97.865	70.893	49.948	0.00	0.00
ATOM	15771	HA	ALA	1047	98.204	70.718	50.969	0.00	0.00
ATOM	15772	CB	ALA	1047	96.391	70.936	50.132	0.00	0.00
ATOM	15773	HB1	ALA	1047	96.073	71.958	50.339	0.00	0.00
ATOM	15774	HB2	ALA	1047	95.972	70.719	49.150	0.00	0.00
ATOM	15775	HB3	ALA	1047	95.965	70.206	50.821	0.00	0.00
ATOM	15776	C	ALA	1047	98.236	69.682	49.055	0.00	0.00
ATOM	15777	O	ALA	1047	99.068	69.840	48.142	0.00	0.00
ATOM	15778	N	LEU	1048	97.737	68.486	49.343	0.00	0.00

ATOM 15779	H	LEU	1048	97.373	68.284	50.263	0.00	0.00
ATOM 15780	CA	LEU	1048	97.943	67.303	48.493	0.00	0.00
ATOM 15781	HA	LEU	1048	98.362	67.649	47.548	0.00	0.00
ATOM 15782	CB	LEU	1048	98.959	66.338	49.212	0.00	0.00
ATOM 15783	HB2	LEU	1048	99.751	66.960	49.631	0.00	0.00
ATOM 15784	HB3	LEU	1048	98.530	65.766	50.035	0.00	0.00
ATOM 15785	CG	LEU	1048	99.628	65.359	48.331	0.00	0.00
ATOM 15786	HG	LEU	1048	99.787	65.823	47.357	0.00	0.00
ATOM 15787	CD1	LEU	1048	101.087	65.033	48.789	0.00	0.00
ATOM 15788	1HD1	LEU	1048	101.526	64.222	48.207	0.00	0.00
ATOM 15789	2HD1	LEU	1048	101.632	65.958	48.603	0.00	0.00
ATOM 15790	3HD1	LEU	1048	100.997	64.811	49.852	0.00	0.00
ATOM 15791	CD2	LEU	1048	98.913	64.006	48.090	0.00	0.00
ATOM 15792	1HD2	LEU	1048	98.056	64.194	47.444	0.00	0.00
ATOM 15793	2HD2	LEU	1048	99.597	63.319	47.590	0.00	0.00
ATOM 15794	3HD2	LEU	1048	98.535	63.685	49.061	0.00	0.00
ATOM 15795	C	LEU	1048	96.677	66.561	48.262	0.00	0.00
ATOM 15796	O	LEU	1048	95.927	66.212	49.189	0.00	0.00
ATOM 15797	N	ILE	1049	96.265	66.321	46.927	0.00	0.00
ATOM 15798	H	ILE	1049	96.956	66.562	46.230	0.00	0.00
ATOM 15799	CA	ILE	1049	94.983	65.786	46.497	0.00	0.00
ATOM 15800	HA	ILE	1049	94.262	66.047	47.272	0.00	0.00
ATOM 15801	CB	ILE	1049	94.529	66.302	45.083	0.00	0.00
ATOM 15802	HB	ILE	1049	95.348	66.134	44.382	0.00	0.00
ATOM 15803	CG2	ILE	1049	93.267	65.514	44.662	0.00	0.00
ATOM 15804	1HG2	ILE	1049	93.525	64.467	44.504	0.00	0.00

ATOM	15805	2HG2	ILE	1049	92.419	65.799	45.285	0.00	0.00
ATOM	15806	3HG2	ILE	1049	93.150	65.813	43.620	0.00	0.00
ATOM	15807	CG1	ILE	1049	94.237	67.813	45.192	0.00	0.00
ATOM	15808	2HG1	ILE	1049	93.340	68.059	45.760	0.00	0.00
ATOM	15809	3HG1	ILE	1049	95.060	68.412	45.583	0.00	0.00
ATOM	15810	CD1	ILE	1049	93.996	68.488	43.831	0.00	0.00
ATOM	15811	1HD1	ILE	1049	93.020	68.190	43.447	0.00	0.00
ATOM	15812	2HD1	ILE	1049	94.050	69.561	44.014	0.00	0.00
ATOM	15813	3HD1	ILE	1049	94.688	68.164	43.054	0.00	0.00
ATOM	15814	C	ILE	1049	94.886	64.265	46.548	0.00	0.00
ATOM	15815	O	ILE	1049	95.629	63.721	45.794	0.00	0.00
ATOM	15816	N	VAL	1050	94.005	63.640	47.403	0.00	0.00
ATOM	15817	H	VAL	1050	93.377	64.226	47.934	0.00	0.00
ATOM	15818	CA	VAL	1050	93.625	62.235	47.298	0.00	0.00
ATOM	15819	HA	VAL	1050	94.332	61.773	46.610	0.00	0.00
ATOM	15820	CB	VAL	1050	93.855	61.447	48.553	0.00	0.00
ATOM	15821	HB	VAL	1050	93.227	61.868	49.339	0.00	0.00
ATOM	15822	CG1	VAL	1050	93.605	59.957	48.316	0.00	0.00
ATOM	15823	1HG1	VAL	1050	93.703	59.464	49.284	0.00	0.00
ATOM	15824	2HG1	VAL	1050	92.620	59.743	47.902	0.00	0.00
ATOM	15825	3HG1	VAL	1050	94.375	59.493	47.701	0.00	0.00
ATOM	15826	CG2	VAL	1050	95.361	61.540	49.003	0.00	0.00
ATOM	15827	1HG2	VAL	1050	96.006	61.068	48.261	0.00	0.00
ATOM	15828	2HG2	VAL	1050	95.658	62.588	49.045	0.00	0.00
ATOM	15829	3HG2	VAL	1050	95.614	61.030	49.932	0.00	0.00
ATOM	15830	C	VAL	1050	92.218	62.195	46.735	0.00	0.00

ATOM 15831	O	VAL	1050	91.233	62.561	47.410	0.00	0.00
ATOM 15832	N	ASP	1051	92.058	61.755	45.514	0.00	0.00
ATOM 15833	H	ASP	1051	92.835	61.446	44.949	0.00	0.00
ATOM 15834	CA	ASP	1051	90.753	61.487	44.961	0.00	0.00
ATOM 15835	HA	ASP	1051	90.073	61.337	45.800	0.00	0.00
ATOM 15836	CB	ASP	1051	90.144	62.718	44.311	0.00	0.00
ATOM 15837	HB2	ASP	1051	90.508	62.851	43.292	0.00	0.00
ATOM 15838	HB3	ASP	1051	90.382	63.628	44.862	0.00	0.00
ATOM 15839	CG	ASP	1051	88.552	62.745	44.162	0.00	0.00
ATOM 15840	OD1	ASP	1051	87.887	61.840	44.819	0.00	0.00
ATOM 15841	OD2	ASP	1051	88.039	63.721	43.484	0.00	0.00
ATOM 15842	C	ASP	1051	90.835	60.280	43.935	0.00	0.00
ATOM 15843	O	ASP	1051	91.881	59.753	43.680	0.00	0.00
ATOM 15844	N	HIE	1052	89.690	59.881	43.396	0.00	0.00
ATOM 15845	H	HIE	1052	88.861	60.370	43.702	0.00	0.00
ATOM 15846	CA	HIE	1052	89.577	58.811	42.375	0.00	0.00
ATOM 15847	HA	HIE	1052	90.070	57.929	42.784	0.00	0.00
ATOM 15848	CB	HIE	1052	88.102	58.470	42.028	0.00	0.00
ATOM 15849	HB2	HIE	1052	88.021	57.587	41.394	0.00	0.00
ATOM 15850	HB3	HIE	1052	87.584	58.346	42.979	0.00	0.00
ATOM 15851	CG	HIE	1052	87.586	59.498	41.119	0.00	0.00
ATOM 15852	ND1	HIE	1052	87.570	59.350	39.773	0.00	0.00
ATOM 15853	CE1	HIE	1052	87.035	60.428	39.266	0.00	0.00
ATOM 15854	HE1	HIE	1052	86.810	60.714	38.250	0.00	0.00
ATOM 15855	NE2	HIE	1052	86.593	61.241	40.292	0.00	0.00
ATOM 15856	HE2	HIE	1052	86.111	62.118	40.155	0.00	0.00

ATOM	15857	CD2	HIE	1052	87.028	60.666	41.438	0.00	0.00
ATOM	15858	HD2	HIE	1052	87.013	60.953	42.479	0.00	0.00
ATOM	15859	C	HIE	1052	90.509	59.072	41.191	0.00	0.00
ATOM	15860	O	HIE	1052	91.045	58.147	40.501	0.00	0.00
ATOM	15861	N	TRP	1053	90.628	60.344	40.786	0.00	0.00
ATOM	15862	H	TRP	1053	90.250	61.110	41.325	0.00	0.00
ATOM	15863	CA	TRP	1053	91.293	60.806	39.527	0.00	0.00
ATOM	15864	HA	TRP	1053	91.000	60.200	38.670	0.00	0.00
ATOM	15865	CB	TRP	1053	90.631	62.047	39.062	0.00	0.00
ATOM	15866	HB2	TRP	1053	91.095	62.284	38.105	0.00	0.00
ATOM	15867	HB3	TRP	1053	89.584	61.880	38.809	0.00	0.00
ATOM	15868	CG	TRP	1053	90.618	63.365	39.796	0.00	0.00
ATOM	15869	CD1	TRP	1053	89.647	63.746	40.638	0.00	0.00
ATOM	15870	HD1	TRP	1053	88.753	63.244	40.978	0.00	0.00
ATOM	15871	NE1	TRP	1053	89.878	65.061	41.042	0.00	0.00
ATOM	15872	HE1	TRP	1053	89.187	65.584	41.561	0.00	0.00
ATOM	15873	CE2	TRP	1053	91.141	65.463	40.644	0.00	0.00
ATOM	15874	CZ2	TRP	1053	91.988	66.526	40.882	0.00	0.00
ATOM	15875	HZ2	TRP	1053	91.606	67.370	41.438	0.00	0.00
ATOM	15876	CH2	TRP	1053	93.182	66.737	40.227	0.00	0.00
ATOM	15877	HH2	TRP	1053	93.764	67.622	40.436	0.00	0.00
ATOM	15878	CZ3	TRP	1053	93.617	65.798	39.296	0.00	0.00
ATOM	15879	HZ3	TRP	1053	94.491	66.024	38.703	0.00	0.00
ATOM	15880	CE3	TRP	1053	92.864	64.605	39.155	0.00	0.00
ATOM	15881	HE3	TRP	1053	93.347	63.840	38.564	0.00	0.00
ATOM	15882	CD2	TRP	1053	91.560	64.442	39.789	0.00	0.00

ATOM	15883	C	TRP	1053	92.844	60.924	39.514	0.00	0.00
ATOM	15884	O	TRP	1053	93.407	60.955	38.441	0.00	0.00
ATOM	15885	N	GLY	1054	93.434	61.027	40.740	0.00	0.00
ATOM	15886	H	GLY	1054	92.860	60.972	41.569	0.00	0.00
ATOM	15887	CA	GLY	1054	94.880	61.142	40.952	0.00	0.00
ATOM	15888	HA2	GLY	1054	95.407	60.291	40.521	0.00	0.00
ATOM	15889	HA3	GLY	1054	95.319	62.025	40.487	0.00	0.00
ATOM	15890	C	GLY	1054	95.272	61.262	42.432	0.00	0.00
ATOM	15891	O	GLY	1054	94.490	61.709	43.304	0.00	0.00
ATOM	15892	N	ILE	1055	96.600	60.972	42.654	0.00	0.00
ATOM	15893	H	ILE	1055	97.138	60.584	41.893	0.00	0.00
ATOM	15894	CA	ILE	1055	97.224	61.433	43.908	0.00	0.00
ATOM	15895	HA	ILE	1055	96.503	61.809	44.635	0.00	0.00
ATOM	15896	CB	ILE	1055	97.925	60.227	44.579	0.00	0.00
ATOM	15897	HB	ILE	1055	98.734	59.973	43.895	0.00	0.00
ATOM	15898	CG2	ILE	1055	98.513	60.645	45.888	0.00	0.00
ATOM	15899	1HG2	ILE	1055	97.717	60.769	46.622	0.00	0.00
ATOM	15900	2HG2	ILE	1055	99.204	59.820	46.061	0.00	0.00
ATOM	15901	3HG2	ILE	1055	99.020	61.608	45.826	0.00	0.00
ATOM	15902	CG1	ILE	1055	97.109	58.914	44.685	0.00	0.00
ATOM	15903	2HG1	ILE	1055	96.861	58.597	43.672	0.00	0.00
ATOM	15904	3HG1	ILE	1055	97.892	58.256	45.063	0.00	0.00
ATOM	15905	CD1	ILE	1055	95.957	58.931	45.693	0.00	0.00
ATOM	15906	1HD1	ILE	1055	96.357	58.887	46.707	0.00	0.00
ATOM	15907	2HD1	ILE	1055	95.398	59.853	45.530	0.00	0.00
ATOM	15908	3HD1	ILE	1055	95.374	58.049	45.430	0.00	0.00

ATOM	15909	C	ILE	1055	98.330	62.561	43.640	0.00	0.00
ATOM	15910	O	ILE	1055	99.463	62.260	43.257	0.00	0.00
ATOM	15911	N	VAL	1056	97.993	63.825	43.824	0.00	0.00
ATOM	15912	H	VAL	1056	97.118	63.972	44.306	0.00	0.00
ATOM	15913	CA	VAL	1056	98.624	65.018	43.106	0.00	0.00
ATOM	15914	HA	VAL	1056	99.591	64.605	42.819	0.00	0.00
ATOM	15915	CB	VAL	1056	97.977	65.352	41.745	0.00	0.00
ATOM	15916	HB	VAL	1056	98.602	66.073	41.217	0.00	0.00
ATOM	15917	CG1	VAL	1056	97.851	64.055	40.876	0.00	0.00
ATOM	15918	1HG1	VAL	1056	97.546	64.375	39.880	0.00	0.00
ATOM	15919	2HG1	VAL	1056	98.806	63.540	40.978	0.00	0.00
ATOM	15920	3HG1	VAL	1056	97.062	63.422	41.283	0.00	0.00
ATOM	15921	CG2	VAL	1056	96.610	65.934	42.002	0.00	0.00
ATOM	15922	1HG2	VAL	1056	96.692	66.827	42.622	0.00	0.00
ATOM	15923	2HG2	VAL	1056	96.174	66.174	41.033	0.00	0.00
ATOM	15924	3HG2	VAL	1056	95.869	65.224	42.370	0.00	0.00
ATOM	15925	C	VAL	1056	98.878	66.278	43.938	0.00	0.00
ATOM	15926	O	VAL	1056	98.324	66.399	45.020	0.00	0.00
ATOM	15927	N	LYS	1057	99.732	67.210	43.496	0.00	0.00
ATOM	15928	H	LYS	1057	100.184	67.027	42.612	0.00	0.00
ATOM	15929	CA	LYS	1057	99.896	68.551	44.080	0.00	0.00
ATOM	15930	HA	LYS	1057	99.354	68.702	45.014	0.00	0.00
ATOM	15931	CB	LYS	1057	101.404	68.820	44.310	0.00	0.00
ATOM	15932	HB2	LYS	1057	101.986	68.656	43.403	0.00	0.00
ATOM	15933	HB3	LYS	1057	101.670	69.852	44.536	0.00	0.00
ATOM	15934	CG	LYS	1057	101.965	67.940	45.472	0.00	0.00



ATOM	15935	HG2	LYS	1057	101.511	66.957	45.348	0.00	0.00
ATOM	15936	HG3	LYS	1057	102.978	67.761	45.110	0.00	0.00
ATOM	15937	CD	LYS	1057	101.915	68.421	46.897	0.00	0.00
ATOM	15938	HD2	LYS	1057	100.884	68.372	47.250	0.00	0.00
ATOM	15939	HD3	LYS	1057	102.549	67.675	47.375	0.00	0.00
ATOM	15940	CE	LYS	1057	102.481	69.872	47.092	0.00	0.00
ATOM	15941	HE2	LYS	1057	103.035	69.842	48.030	0.00	0.00
ATOM	15942	HE3	LYS	1057	103.184	70.104	46.292	0.00	0.00
ATOM	15943	NZ	LYS	1057	101.422	70.874	47.309	0.00	0.00
ATOM	15944	HZ1	LYS	1057	101.935	71.542	47.868	0.00	0.00
ATOM	15945	HZ2	LYS	1057	101.166	71.345	46.453	0.00	0.00
ATOM	15946	HZ3	LYS	1057	100.571	70.620	47.791	0.00	0.00
ATOM	15947	C	LYS	1057	99.404	69.593	43.048	0.00	0.00
ATOM	15948	O	LYS	1057	99.674	69.756	41.844	0.00	0.00
ATOM	15949	N	ALA	1058	98.531	70.404	43.497	0.00	0.00
ATOM	15950	H	ALA	1058	98.397	70.421	44.498	0.00	0.00
ATOM	15951	CA	ALA	1058	97.869	71.558	42.870	0.00	0.00
ATOM	15952	HA	ALA	1058	98.643	72.069	42.298	0.00	0.00
ATOM	15953	CB	ALA	1058	96.798	70.998	41.922	0.00	0.00
ATOM	15954	HB1	ALA	1058	96.231	70.215	42.426	0.00	0.00
ATOM	15955	HB2	ALA	1058	96.208	71.805	41.487	0.00	0.00
ATOM	15956	HB3	ALA	1058	97.217	70.490	41.054	0.00	0.00
ATOM	15957	C	ALA	1058	97.165	72.489	43.887	0.00	0.00
ATOM	15958	O	ALA	1058	97.076	72.129	45.055	0.00	0.00
ATOM	15959	N	ASP	1059	96.712	73.642	43.399	0.00	0.00
ATOM	15960	H	ASP	1059	96.786	73.633	42.392	0.00	0.00

ATOM	15961	CA	ASP	1059	95.836	74.514	44.136	0.00	0.00
ATOM	15962	HA	ASP	1059	95.964	74.396	45.212	0.00	0.00
ATOM	15963	CB	ASP	1059	96.278	76.013	43.871	0.00	0.00
ATOM	15964	HB2	ASP	1059	96.218	76.375	42.845	0.00	0.00
ATOM	15965	HB3	ASP	1059	95.657	76.706	44.440	0.00	0.00
ATOM	15966	CG	ASP	1059	97.683	76.464	44.351	0.00	0.00
ATOM	15967	OD1	ASP	1059	98.049	75.908	45.423	0.00	0.00
ATOM	15968	OD2	ASP	1059	98.473	77.061	43.598	0.00	0.00
ATOM	15969	C	ASP	1059	94.383	74.283	43.773	0.00	0.00
ATOM	15970	O	ASP	1059	94.130	73.844	42.599	0.00	0.00
ATOM	15971	N	ILE	1060	93.381	74.502	44.603	0.00	0.00
ATOM	15972	H	ILE	1060	93.677	74.895	45.484	0.00	0.00
ATOM	15973	CA	ILE	1060	91.908	74.494	44.194	0.00	0.00
ATOM	15974	HA	ILE	1060	91.879	74.269	43.128	0.00	0.00
ATOM	15975	CB	ILE	1060	91.003	73.407	44.883	0.00	0.00
ATOM	15976	HB	ILE	1060	90.870	73.726	45.916	0.00	0.00
ATOM	15977	CG2	ILE	1060	89.513	73.384	44.281	0.00	0.00
ATOM	15978	1HG2	ILE	1060	88.928	72.593	44.750	0.00	0.00
ATOM	15979	2HG2	ILE	1060	88.941	74.278	44.530	0.00	0.00
ATOM	15980	3HG2	ILE	1060	89.554	73.207	43.206	0.00	0.00
ATOM	15981	CG1	ILE	1060	91.633	72.005	44.708	0.00	0.00
ATOM	15982	2HG1	ILE	1060	90.820	71.366	44.361	0.00	0.00
ATOM	15983	3HG1	ILE	1060	92.332	71.894	43.879	0.00	0.00
ATOM	15984	CD1	ILE	1060	92.230	71.322	45.973	0.00	0.00
ATOM	15985	1HD1	ILE	1060	92.643	70.350	45.705	0.00	0.00
ATOM	15986	2HD1	ILE	1060	93.051	71.882	46.422	0.00	0.00

ATOM 15987 3HD1 ILE 1060 91.418 71.224 46.695 0.00 0.00  
ATOM 15988 C ILE 1060 91.250 75.850 44.358 0.00 0.00  
ATOM 15989 O ILE 1060 91.256 76.464 45.410 0.00 0.00  
ATOM 15990 N GLY 1061 90.625 76.337 43.347 0.00 0.00  
ATOM 15991 H GLY 1061 90.506 75.746 42.537 0.00 0.00  
ATOM 15992 CA GLY 1061 89.769 77.530 43.430 0.00 0.00  
ATOM 15993 HA2 GLY 1061 90.066 78.251 44.192 0.00 0.00  
ATOM 15994 HA3 GLY 1061 89.896 78.046 42.479 0.00 0.00  
ATOM 15995 C GLY 1061 88.272 77.205 43.580 0.00 0.00  
ATOM 15996 O GLY 1061 87.804 76.223 43.013 0.00 0.00  
ATOM 15997 N VAL 1062 87.581 78.082 44.304 0.00 0.00  
ATOM 15998 H VAL 1062 88.081 78.732 44.892 0.00 0.00  
ATOM 15999 CA VAL 1062 86.140 78.074 44.531 0.00 0.00  
ATOM 16000 HA VAL 1062 85.748 77.363 43.804 0.00 0.00  
ATOM 16001 CB VAL 1062 85.911 77.697 46.001 0.00 0.00  
ATOM 16002 HB VAL 1062 86.329 78.513 46.591 0.00 0.00  
ATOM 16003 CG1 VAL 1062 84.413 77.625 46.254 0.00 0.00  
ATOM 16004 1HG1 VAL 1062 84.269 77.612 47.334 0.00 0.00  
ATOM 16005 2HG1 VAL 1062 83.937 78.548 45.924 0.00 0.00  
ATOM 16006 3HG1 VAL 1062 83.889 76.773 45.821 0.00 0.00  
ATOM 16007 CG2 VAL 1062 86.543 76.250 46.370 0.00 0.00  
ATOM 16008 1HG2 VAL 1062 86.116 75.566 45.637 0.00 0.00  
ATOM 16009 2HG2 VAL 1062 87.630 76.184 46.343 0.00 0.00  
ATOM 16010 3HG2 VAL 1062 86.136 75.838 47.294 0.00 0.00  
ATOM 16011 C VAL 1062 85.443 79.413 44.241 0.00 0.00  
ATOM 16012 O VAL 1062 85.855 80.501 44.764 0.00 0.00

ATOM 16013	N	LYS 1063	84.299	79.462	43.444	0.00	0.00
ATOM 16014	H	LYS 1063	83.999	78.582	43.048	0.00	0.00
ATOM 16015	CA	LYS 1063	83.533	80.606	43.088	0.00	0.00
ATOM 16016	HA	LYS 1063	83.836	81.417	43.750	0.00	0.00
ATOM 16017	CB	LYS 1063	83.912	81.044	41.665	0.00	0.00
ATOM 16018	HB2	LYS 1063	84.988	81.213	41.689	0.00	0.00
ATOM 16019	HB3	LYS 1063	83.630	80.263	40.960	0.00	0.00
ATOM 16020	CG	LYS 1063	83.267	82.344	41.398	0.00	0.00
ATOM 16021	HG2	LYS 1063	83.016	82.421	40.340	0.00	0.00
ATOM 16022	HG3	LYS 1063	82.246	82.396	41.776	0.00	0.00
ATOM 16023	CD	LYS 1063	84.081	83.593	41.819	0.00	0.00
ATOM 16024	HD2	LYS 1063	84.266	83.582	42.893	0.00	0.00
ATOM 16025	HD3	LYS 1063	85.021	83.462	41.284	0.00	0.00
ATOM 16026	CE	LYS 1063	83.441	84.916	41.635	0.00	0.00
ATOM 16027	HE2	LYS 1063	83.398	85.097	40.561	0.00	0.00
ATOM 16028	HE3	LYS 1063	82.420	84.921	42.015	0.00	0.00
ATOM 16029	NZ	LYS 1063	84.285	85.952	42.362	0.00	0.00
ATOM 16030	HZ1	LYS 1063	84.267	85.806	43.361	0.00	0.00
ATOM 16031	HZ2	LYS 1063	85.247	85.797	42.096	0.00	0.00
ATOM 16032	HZ3	LYS 1063	84.076	86.911	42.124	0.00	0.00
ATOM 16033	C	LYS 1063	81.954	80.297	43.291	0.00	0.00
ATOM 16034	O	LYS 1063	81.501	79.197	42.810	0.00	0.00
ATOM 16035	N	ASP 1064	81.161	81.172	43.863	0.00	0.00
ATOM 16036	H	ASP 1064	81.608	81.901	44.401	0.00	0.00
ATOM 16037	CA	ASP 1064	79.727	80.957	43.938	0.00	0.00
ATOM 16038	HA	ASP 1064	79.312	81.724	44.593	0.00	0.00

ATOM	16039	CB	ASP	1064	79.019	81.187	42.550	0.00	0.00
ATOM	16040	HB2	ASP	1064	79.503	82.022	42.043	0.00	0.00
ATOM	16041	HB3	ASP	1064	79.139	80.243	42.018	0.00	0.00
ATOM	16042	CG	ASP	1064	77.476	81.518	42.853	0.00	0.00
ATOM	16043	OD1	ASP	1064	77.164	82.311	43.763	0.00	0.00
ATOM	16044	OD2	ASP	1064	76.660	80.977	42.099	0.00	0.00
ATOM	16045	C	ASP	1064	79.323	79.661	44.681	0.00	0.00
ATOM	16046	O	ASP	1064	78.291	78.999	44.454	0.00	0.00
ATOM	16047	N	GLY	1065	80.239	79.252	45.620	0.00	0.00
ATOM	16048	H	GLY	1065	81.039	79.789	45.925	0.00	0.00
ATOM	16049	CA	GLY	1065	80.146	78.034	46.483	0.00	0.00
ATOM	16050	HA2	GLY	1065	80.961	78.034	47.207	0.00	0.00
ATOM	16051	HA3	GLY	1065	79.123	77.998	46.855	0.00	0.00
ATOM	16052	C	GLY	1065	80.387	76.718	45.750	0.00	0.00
ATOM	16053	O	GLY	1065	80.338	75.670	46.319	0.00	0.00
ATOM	16054	N	ARG	1066	80.965	76.786	44.578	0.00	0.00
ATOM	16055	H	ARG	1066	81.252	77.654	44.149	0.00	0.00
ATOM	16056	CA	ARG	1066	81.354	75.586	43.787	0.00	0.00
ATOM	16057	HA	ARG	1066	81.100	74.668	44.316	0.00	0.00
ATOM	16058	CB	ARG	1066	80.457	75.614	42.512	0.00	0.00
ATOM	16059	HB2	ARG	1066	80.534	76.563	41.981	0.00	0.00
ATOM	16060	HB3	ARG	1066	80.780	74.796	41.867	0.00	0.00
ATOM	16061	CG	ARG	1066	78.957	75.352	42.830	0.00	0.00
ATOM	16062	HG2	ARG	1066	78.778	74.346	43.207	0.00	0.00
ATOM	16063	HG3	ARG	1066	78.654	76.096	43.568	0.00	0.00
ATOM	16064	CD	ARG	1066	78.066	75.586	41.627	0.00	0.00

ATOM	16065	HD2	ARG	1066	78.059	76.640	41.351	0.00	0.00
ATOM	16066	HD3	ARG	1066	78.524	75.051	40.795	0.00	0.00
ATOM	16067	NE	ARG	1066	76.684	75.250	41.935	0.00	0.00
ATOM	16068	HE	ARG	1066	76.271	75.958	42.526	0.00	0.00
ATOM	16069	CZ	ARG	1066	76.154	73.974	41.896	0.00	0.00
ATOM	16070	NH1	ARG	1066	75.184	73.614	42.683	0.00	0.00
ATOM	16071	1HH1	ARG	1066	74.727	72.741	42.462	0.00	0.00
ATOM	16072	2HH1	ARG	1066	74.544	74.304	43.051	0.00	0.00
ATOM	16073	NH2	ARG	1066	76.596	73.031	41.122	0.00	0.00
ATOM	16074	1HH2	ARG	1066	76.297	72.083	41.299	0.00	0.00
ATOM	16075	2HH2	ARG	1066	77.325	73.126	40.430	0.00	0.00
ATOM	16076	C	ARG	1066	82.808	75.474	43.346	0.00	0.00
ATOM	16077	O	ARG	1066	83.526	76.493	43.349	0.00	0.00
ATOM	16078	N	ILE	1067	83.309	74.290	42.976	0.00	0.00
ATOM	16079	H	ILE	1067	82.661	73.517	42.918	0.00	0.00
ATOM	16080	CA	ILE	1067	84.690	74.014	42.532	0.00	0.00
ATOM	16081	HA	ILE	1067	85.417	74.404	43.244	0.00	0.00
ATOM	16082	CB	ILE	1067	84.974	72.466	42.392	0.00	0.00
ATOM	16083	HB	ILE	1067	84.389	72.117	41.541	0.00	0.00
ATOM	16084	CG2	ILE	1067	86.500	72.239	42.023	0.00	0.00
ATOM	16085	1HG2	ILE	1067	86.670	72.599	41.008	0.00	0.00
ATOM	16086	2HG2	ILE	1067	87.152	72.580	42.828	0.00	0.00
ATOM	16087	3HG2	ILE	1067	86.782	71.192	41.912	0.00	0.00
ATOM	16088	CG1	ILE	1067	84.643	71.722	43.723	0.00	0.00
ATOM	16089	2HG1	ILE	1067	85.071	72.286	44.552	0.00	0.00
ATOM	16090	3HG1	ILE	1067	83.581	71.754	43.966	0.00	0.00

ATOM 16091	CD1	ILE	1067	85.120	70.275	43.947	0.00	0.00
ATOM 16092	1HD1	ILE	1067	84.743	69.579	43.197	0.00	0.00
ATOM 16093	2HD1	ILE	1067	86.204	70.189	43.869	0.00	0.00
ATOM 16094	3HD1	ILE	1067	84.894	69.874	44.935	0.00	0.00
ATOM 16095	C	ILE	1067	84.902	74.630	41.207	0.00	0.00
ATOM 16096	O	ILE	1067	84.241	74.327	40.261	0.00	0.00
ATOM 16097	N	PHE	1068	85.685	75.675	41.176	0.00	0.00
ATOM 16098	H	PHE	1068	86.265	75.732	42.001	0.00	0.00
ATOM 16099	CA	PHE	1068	85.871	76.566	40.013	0.00	0.00
ATOM 16100	HA	PHE	1068	84.983	76.530	39.382	0.00	0.00
ATOM 16101	CB	PHE	1068	86.136	77.938	40.569	0.00	0.00
ATOM 16102	HB2	PHE	1068	85.308	78.498	41.005	0.00	0.00
ATOM 16103	HB3	PHE	1068	86.862	77.963	41.381	0.00	0.00
ATOM 16104	CG	PHE	1068	86.698	78.855	39.587	0.00	0.00
ATOM 16105	CD1	PHE	1068	85.897	79.535	38.759	0.00	0.00
ATOM 16106	HD1	PHE	1068	84.823	79.454	38.839	0.00	0.00
ATOM 16107	CE1	PHE	1068	86.382	80.578	37.901	0.00	0.00
ATOM 16108	HE1	PHE	1068	85.668	81.093	37.275	0.00	0.00
ATOM 16109	CZ	PHE	1068	87.796	80.806	37.786	0.00	0.00
ATOM 16110	HZ	PHE	1068	88.083	81.682	37.224	0.00	0.00
ATOM 16111	CE2	PHE	1068	88.614	80.055	38.575	0.00	0.00
ATOM 16112	HE2	PHE	1068	89.692	80.104	38.557	0.00	0.00
ATOM 16113	CD2	PHE	1068	88.135	79.078	39.482	0.00	0.00
ATOM 16114	HD2	PHE	1068	88.839	78.562	40.118	0.00	0.00
ATOM 16115	C	PHE	1068	86.989	76.219	38.975	0.00	0.00
ATOM 16116	O	PHE	1068	86.691	76.165	37.766	0.00	0.00

ATOM	16117	N	ALA	1069	88.134	75.798	39.526	0.00	0.00
ATOM	16118	H	ALA	1069	88.223	75.929	40.523	0.00	0.00
ATOM	16119	CA	ALA	1069	89.191	75.067	38.802	0.00	0.00
ATOM	16120	HA	ALA	1069	88.675	74.312	38.208	0.00	0.00
ATOM	16121	CB	ALA	1069	89.988	75.979	37.897	0.00	0.00
ATOM	16122	HB1	ALA	1069	90.695	76.612	38.433	0.00	0.00
ATOM	16123	HB2	ALA	1069	90.624	75.367	37.257	0.00	0.00
ATOM	16124	HB3	ALA	1069	89.362	76.642	37.300	0.00	0.00
ATOM	16125	C	ALA	1069	90.121	74.417	39.790	0.00	0.00
ATOM	16126	O	ALA	1069	90.149	74.653	40.988	0.00	0.00
ATOM	16127	N	ILE	1070	90.959	73.536	39.202	0.00	0.00
ATOM	16128	H	ILE	1070	90.707	73.257	38.265	0.00	0.00
ATOM	16129	CA	ILE	1070	92.122	72.977	39.887	0.00	0.00
ATOM	16130	HA	ILE	1070	92.239	73.416	40.878	0.00	0.00
ATOM	16131	CB	ILE	1070	91.966	71.398	40.123	0.00	0.00
ATOM	16132	HB	ILE	1070	91.752	70.857	39.201	0.00	0.00
ATOM	16133	CG2	ILE	1070	93.128	70.853	40.972	0.00	0.00
ATOM	16134	1HG2	ILE	1070	93.584	71.611	41.607	0.00	0.00
ATOM	16135	2HG2	ILE	1070	92.994	69.927	41.532	0.00	0.00
ATOM	16136	3HG2	ILE	1070	93.891	70.721	40.205	0.00	0.00
ATOM	16137	CG1	ILE	1070	90.717	71.079	40.950	0.00	0.00
ATOM	16138	2HG1	ILE	1070	90.781	70.080	41.382	0.00	0.00
ATOM	16139	3HG1	ILE	1070	90.698	71.838	41.732	0.00	0.00
ATOM	16140	CD1	ILE	1070	89.395	71.145	40.161	0.00	0.00
ATOM	16141	1HD1	ILE	1070	88.826	70.306	40.564	0.00	0.00
ATOM	16142	2HD1	ILE	1070	88.946	72.131	40.045	0.00	0.00



ATOM 16143 3HD1 ILE 1070 89.666 70.867 39.143 0.00 0.00  
ATOM 16144 C ILE 1070 93.329 73.224 38.979 0.00 0.00  
ATOM 16145 O ILE 1070 93.290 72.998 37.740 0.00 0.00  
ATOM 16146 N GLY 1071 94.417 73.706 39.552 0.00 0.00  
ATOM 16147 H GLY 1071 94.429 73.924 40.538 0.00 0.00  
ATOM 16148 CA GLY 1071 95.573 73.949 38.760 0.00 0.00  
ATOM 16149 HA2 GLY 1071 95.923 73.037 38.276 0.00 0.00  
ATOM 16150 HA3 GLY 1071 95.302 74.676 37.994 0.00 0.00  
ATOM 16151 C GLY 1071 96.650 74.631 39.652 0.00 0.00  
ATOM 16152 O GLY 1071 97.080 74.040 40.697 0.00 0.00  
ATOM 16153 N LYS 1072 97.101 75.766 39.202 0.00 0.00  
ATOM 16154 H LYS 1072 96.758 75.955 38.271 0.00 0.00  
ATOM 16155 CA LYS 1072 97.992 76.673 39.900 0.00 0.00  
ATOM 16156 HA LYS 1072 98.341 76.194 40.816 0.00 0.00  
ATOM 16157 CB LYS 1072 99.242 76.932 38.931 0.00 0.00  
ATOM 16158 HB2 LYS 1072 99.418 76.095 38.255 0.00 0.00  
ATOM 16159 HB3 LYS 1072 98.993 77.802 38.322 0.00 0.00  
ATOM 16160 CG LYS 1072 100.479 77.168 39.794 0.00 0.00  
ATOM 16161 HG2 LYS 1072 100.298 77.879 40.600 0.00 0.00  
ATOM 16162 HG3 LYS 1072 100.643 76.177 40.219 0.00 0.00  
ATOM 16163 CD LYS 1072 101.730 77.621 39.052 0.00 0.00  
ATOM 16164 HD2 LYS 1072 101.971 76.950 38.228 0.00 0.00  
ATOM 16165 HD3 LYS 1072 101.643 78.649 38.700 0.00 0.00  
ATOM 16166 CE LYS 1072 102.868 77.451 39.970 0.00 0.00  
ATOM 16167 HE2 LYS 1072 102.921 76.391 40.219 0.00 0.00  
ATOM 16168 HE3 LYS 1072 103.727 77.569 39.309 0.00 0.00

ATOM	16169	NZ	LYS	1072	102.915	78.273	41.163	0.00	0.00
ATOM	16170	HZ1	LYS	1072	103.575	77.935	41.848	0.00	0.00
ATOM	16171	HZ2	LYS	1072	103.056	79.270	41.084	0.00	0.00
ATOM	16172	HZ3	LYS	1072	102.034	78.158	41.644	0.00	0.00
ATOM	16173	C	LYS	1072	97.268	78.016	40.220	0.00	0.00
ATOM	16174	O	LYS	1072	96.585	78.607	39.393	0.00	0.00
ATOM	16175	N	ALA	1073	97.417	78.533	41.422	0.00	0.00
ATOM	16176	H	ALA	1073	98.090	78.076	42.019	0.00	0.00
ATOM	16177	CA	ALA	1073	97.039	79.852	41.834	0.00	0.00
ATOM	16178	HA	ALA	1073	96.117	80.184	41.357	0.00	0.00
ATOM	16179	CB	ALA	1073	96.554	79.798	43.320	0.00	0.00
ATOM	16180	HB1	ALA	1073	95.718	79.101	43.279	0.00	0.00
ATOM	16181	HB2	ALA	1073	97.367	79.341	43.884	0.00	0.00
ATOM	16182	HB3	ALA	1073	96.137	80.693	43.783	0.00	0.00
ATOM	16183	C	ALA	1073	98.153	80.887	41.506	0.00	0.00
ATOM	16184	O	ALA	1073	99.296	80.546	41.092	0.00	0.00
ATOM	16185	N	GLY	1074	97.733	82.172	41.704	0.00	0.00
ATOM	16186	H	GLY	1074	96.783	82.403	41.957	0.00	0.00
ATOM	16187	CA	GLY	1074	98.620	83.409	41.683	0.00	0.00
ATOM	16188	HA2	GLY	1074	98.787	83.544	42.752	0.00	0.00
ATOM	16189	HA3	GLY	1074	99.618	83.303	41.259	0.00	0.00
ATOM	16190	C	GLY	1074	97.926	84.686	41.129	0.00	0.00
ATOM	16191	O	GLY	1074	96.739	84.666	40.812	0.00	0.00
ATOM	16192	N	ASN	1075	98.739	85.718	40.916	0.00	0.00
ATOM	16193	H	ASN	1075	99.716	85.549	41.105	0.00	0.00
ATOM	16194	CA	ASN	1075	98.503	86.817	39.930	0.00	0.00

ATOM 16195	HA	ASN 1075	97.418	86.927	39.942	0.00	0.00
ATOM 16196	CB	ASN 1075	99.076	88.162	40.351	0.00	0.00
ATOM 16197	HB2	ASN 1075	98.779	88.394	41.374	0.00	0.00
ATOM 16198	HB3	ASN 1075	100.166	88.203	40.340	0.00	0.00
ATOM 16199	CG	ASN 1075	98.598	89.344	39.480	0.00	0.00
ATOM 16200	OD1	ASN 1075	97.991	89.242	38.497	0.00	0.00
ATOM 16201	ND2	ASN 1075	99.014	90.528	39.887	0.00	0.00
ATOM 16202	1HD2	ASN 1075	98.921	91.292	39.233	0.00	0.00
ATOM 16203	2HD2	ASN 1075	99.490	90.409	40.770	0.00	0.00
ATOM 16204	C	ASN 1075	98.847	86.542	38.430	0.00	0.00
ATOM 16205	O	ASN 1075	100.000	86.547	38.055	0.00	0.00
ATOM 16206	N	PRO 1076	97.872	86.175	37.625	0.00	0.00
ATOM 16207	CD	PRO 1076	96.458	86.380	37.825	0.00	0.00
ATOM 16208	HD2	PRO 1076	96.247	87.322	38.330	0.00	0.00
ATOM 16209	HD3	PRO 1076	96.192	85.568	38.502	0.00	0.00
ATOM 16210	CG	PRO 1076	95.785	86.229	36.460	0.00	0.00
ATOM 16211	HG2	PRO 1076	94.799	85.776	36.562	0.00	0.00
ATOM 16212	HG3	PRO 1076	95.704	87.132	35.853	0.00	0.00
ATOM 16213	CB	PRO 1076	96.699	85.230	35.784	0.00	0.00
ATOM 16214	HB2	PRO 1076	96.472	84.213	36.104	0.00	0.00
ATOM 16215	HB3	PRO 1076	96.610	85.268	34.698	0.00	0.00
ATOM 16216	CA	PRO 1076	98.118	85.584	36.298	0.00	0.00
ATOM 16217	HA	PRO 1076	98.670	84.644	36.311	0.00	0.00
ATOM 16218	C	PRO 1076	98.775	86.543	35.270	0.00	0.00
ATOM 16219	O	PRO 1076	99.406	86.168	34.273	0.00	0.00
ATOM 16220	N	ASP 1077	98.544	87.861	35.409	0.00	0.00

ATOM	16221	H	ASP	1077	97.991	88.212	36.178	0.00	0.00
ATOM	16222	CA	ASP	1077	99.071	88.958	34.659	0.00	0.00
ATOM	16223	HA	ASP	1077	98.613	88.821	33.679	0.00	0.00
ATOM	16224	CB	ASP	1077	98.439	90.278	35.128	0.00	0.00
ATOM	16225	HB2	ASP	1077	97.357	90.169	35.053	0.00	0.00
ATOM	16226	HB3	ASP	1077	98.492	90.390	36.211	0.00	0.00
ATOM	16227	CG	ASP	1077	98.892	91.590	34.390	0.00	0.00
ATOM	16228	OD1	ASP	1077	99.602	92.360	35.054	0.00	0.00
ATOM	16229	OD2	ASP	1077	98.613	91.844	33.182	0.00	0.00
ATOM	16230	C	ASP	1077	100.644	88.934	34.691	0.00	0.00
ATOM	16231	O	ASP	1077	101.267	89.310	33.684	0.00	0.00
ATOM	16232	N	ILE	1078	101.304	88.605	35.835	0.00	0.00
ATOM	16233	H	ILE	1078	100.695	88.164	36.509	0.00	0.00
ATOM	16234	CA	ILE	1078	102.728	88.817	36.263	0.00	0.00
ATOM	16235	HA	ILE	1078	103.313	88.964	35.355	0.00	0.00
ATOM	16236	CB	ILE	1078	102.973	90.093	37.028	0.00	0.00
ATOM	16237	HB	ILE	1078	104.055	90.221	37.064	0.00	0.00
ATOM	16238	CG2	ILE	1078	102.577	91.203	36.069	0.00	0.00
ATOM	16239	1HG2	ILE	1078	102.998	91.158	35.065	0.00	0.00
ATOM	16240	2HG2	ILE	1078	101.494	91.143	35.965	0.00	0.00
ATOM	16241	3HG2	ILE	1078	102.895	92.170	36.459	0.00	0.00
ATOM	16242	CG1	ILE	1078	102.309	90.176	38.416	0.00	0.00
ATOM	16243	2HG1	ILE	1078	101.243	90.162	38.185	0.00	0.00
ATOM	16244	3HG1	ILE	1078	102.501	89.277	39.002	0.00	0.00
ATOM	16245	CD1	ILE	1078	102.564	91.400	39.302	0.00	0.00
ATOM	16246	1HD1	ILE	1078	103.625	91.639	39.240	0.00	0.00

ATOM 16247 2HD1 ILE 1078 102.047 92.277 38.910 0.00 0.00  
ATOM 16248 3HD1 ILE 1078 102.295 91.192 40.338 0.00 0.00  
ATOM 16249 C ILE 1078 103.375 87.622 36.947 0.00 0.00  
ATOM 16250 O ILE 1078 104.530 87.756 37.281 0.00 0.00  
ATOM 16251 N GLN 1079 102.613 86.563 37.144 0.00 0.00  
ATOM 16252 H GLN 1079 101.611 86.550 37.016 0.00 0.00  
ATOM 16253 CA GLN 1079 103.230 85.307 37.386 0.00 0.00  
ATOM 16254 HA GLN 1079 104.315 85.395 37.454 0.00 0.00  
ATOM 16255 CB GLN 1079 102.751 84.723 38.702 0.00 0.00  
ATOM 16256 HB2 GLN 1079 101.717 84.401 38.576 0.00 0.00  
ATOM 16257 HB3 GLN 1079 103.388 83.871 38.939 0.00 0.00  
ATOM 16258 CG GLN 1079 102.866 85.777 39.843 0.00 0.00  
ATOM 16259 HG2 GLN 1079 103.833 86.277 39.800 0.00 0.00  
ATOM 16260 HG3 GLN 1079 102.095 86.525 39.657 0.00 0.00  
ATOM 16261 CD GLN 1079 102.661 85.250 41.205 0.00 0.00  
ATOM 16262 OE1 GLN 1079 101.553 85.326 41.751 0.00 0.00  
ATOM 16263 NE2 GLN 1079 103.633 84.707 41.851 0.00 0.00  
ATOM 16264 1HE2 GLN 1079 103.485 84.511 42.830 0.00 0.00  
ATOM 16265 2HE2 GLN 1079 104.571 84.635 41.482 0.00 0.00  
ATOM 16266 C GLN 1079 102.887 84.284 36.302 0.00 0.00  
ATOM 16267 O GLN 1079 101.703 84.256 35.857 0.00 0.00  
ATOM 16268 N PRO 1080 103.809 83.420 35.843 0.00 0.00  
ATOM 16269 CD PRO 1080 105.170 83.248 36.372 0.00 0.00  
ATOM 16270 HD2 PRO 1080 105.749 84.111 36.045 0.00 0.00  
ATOM 16271 HD3 PRO 1080 105.112 83.127 37.454 0.00 0.00  
ATOM 16272 CG PRO 1080 105.795 82.136 35.453 0.00 0.00

ATOM	16273	HG2 PRO	1080	106.751	82.496	35.074	0.00	0.00
ATOM	16274	HG3 PRO	1080	106.011	81.253	36.055	0.00	0.00
ATOM	16275	CB PRO	1080	104.777	81.901	34.337	0.00	0.00
ATOM	16276	HB2 PRO	1080	105.075	82.450	33.444	0.00	0.00
ATOM	16277	HB3 PRO	1080	104.846	80.877	33.968	0.00	0.00
ATOM	16278	CA PRO	1080	103.447	82.477	34.797	0.00	0.00
ATOM	16279	HA PRO	1080	103.017	83.041	33.969	0.00	0.00
ATOM	16280	C PRO	1080	102.452	81.310	35.145	0.00	0.00
ATOM	16281	O PRO	1080	102.382	81.020	36.310	0.00	0.00
ATOM	16282	N ASN	1081	101.907	80.589	34.150	0.00	0.00
ATOM	16283	H ASN	1081	102.071	80.940	33.217	0.00	0.00
ATOM	16284	CA ASN	1081	101.042	79.388	34.223	0.00	0.00
ATOM	16285	HA ASN	1081	100.501	79.465	33.280	0.00	0.00
ATOM	16286	CB ASN	1081	101.832	78.105	34.067	0.00	0.00
ATOM	16287	HB2 ASN	1081	102.608	78.235	33.312	0.00	0.00
ATOM	16288	HB3 ASN	1081	102.275	77.891	35.039	0.00	0.00
ATOM	16289	CG ASN	1081	100.946	76.912	33.605	0.00	0.00
ATOM	16290	OD1 ASN	1081	99.941	77.095	32.926	0.00	0.00
ATOM	16291	ND2 ASN	1081	101.427	75.754	33.914	0.00	0.00
ATOM	16292	1HD2 ASN	1081	101.018	74.922	33.513	0.00	0.00
ATOM	16293	2HD2 ASN	1081	102.217	75.612	34.527	0.00	0.00
ATOM	16294	C ASN	1081	99.931	79.351	35.382	0.00	0.00
ATOM	16295	O ASN	1081	99.455	78.277	35.782	0.00	0.00
ATOM	16296	N VAL	1082	99.470	80.473	35.907	0.00	0.00
ATOM	16297	H VAL	1082	99.859	81.297	35.469	0.00	0.00
ATOM	16298	CA VAL	1082	98.279	80.519	36.770	0.00	0.00

ATOM 16299	HA	VAL	1082	98.485	79.791	37.554	0.00	0.00
ATOM 16300	CB	VAL	1082	98.054	81.871	37.405	0.00	0.00
ATOM 16301	HB	VAL	1082	97.726	82.630	36.695	0.00	0.00
ATOM 16302	CG1	VAL	1082	96.916	81.871	38.460	0.00	0.00
ATOM 16303	1HG1	VAL	1082	95.989	81.654	37.928	0.00	0.00
ATOM 16304	2HG1	VAL	1082	97.102	81.124	39.231	0.00	0.00
ATOM 16305	3HG1	VAL	1082	96.792	82.868	38.882	0.00	0.00
ATOM 16306	CG2	VAL	1082	99.321	82.380	38.133	0.00	0.00
ATOM 16307	1HG2	VAL	1082	100.123	82.547	37.414	0.00	0.00
ATOM 16308	2HG2	VAL	1082	99.162	83.310	38.680	0.00	0.00
ATOM 16309	3HG2	VAL	1082	99.691	81.570	38.761	0.00	0.00
ATOM 16310	C	VAL	1082	97.050	80.024	36.025	0.00	0.00
ATOM 16311	O	VAL	1082	96.812	80.378	34.879	0.00	0.00
ATOM 16312	N	THR	1083	96.183	79.265	36.659	0.00	0.00
ATOM 16313	H	THR	1083	96.266	78.705	37.495	0.00	0.00
ATOM 16314	CA	THR	1083	94.815	78.905	36.116	0.00	0.00
ATOM 16315	HA	THR	1083	94.681	79.616	35.301	0.00	0.00
ATOM 16316	CB	THR	1083	94.653	77.511	35.635	0.00	0.00
ATOM 16317	HB	THR	1083	93.590	77.272	35.615	0.00	0.00
ATOM 16318	CG2	THR	1083	95.144	77.304	34.147	0.00	0.00
ATOM 16319	1HG2	THR	1083	94.795	78.019	33.402	0.00	0.00
ATOM 16320	2HG2	THR	1083	96.233	77.368	34.151	0.00	0.00
ATOM 16321	3HG2	THR	1083	94.709	76.389	33.747	0.00	0.00
ATOM 16322	OG1	THR	1083	95.398	76.616	36.425	0.00	0.00
ATOM 16323	HG1	THR	1083	95.580	75.920	35.789	0.00	0.00
ATOM 16324	C	THR	1083	93.725	79.217	37.148	0.00	0.00

ATOM	16325	O	THR	1083	92.544	78.936	36.887	0.00	0.00
ATOM	16326	N	ILE	1084	94.081	79.686	38.404	0.00	0.00
ATOM	16327	H	ILE	1084	95.058	79.773	38.646	0.00	0.00
ATOM	16328	CA	ILE	1084	93.213	80.179	39.455	0.00	0.00
ATOM	16329	HA	ILE	1084	92.179	80.218	39.111	0.00	0.00
ATOM	16330	CB	ILE	1084	93.286	79.231	40.708	0.00	0.00
ATOM	16331	HB	ILE	1084	94.336	79.185	40.997	0.00	0.00
ATOM	16332	CG2	ILE	1084	92.427	79.859	41.890	0.00	0.00
ATOM	16333	1HG2	ILE	1084	91.453	80.172	41.514	0.00	0.00
ATOM	16334	2HG2	ILE	1084	92.340	79.127	42.693	0.00	0.00
ATOM	16335	3HG2	ILE	1084	93.011	80.665	42.333	0.00	0.00
ATOM	16336	CG1	ILE	1084	92.729	77.805	40.433	0.00	0.00
ATOM	16337	2HG1	ILE	1084	91.672	77.764	40.696	0.00	0.00
ATOM	16338	3HG1	ILE	1084	92.883	77.520	39.392	0.00	0.00
ATOM	16339	CD1	ILE	1084	93.409	76.776	41.236	0.00	0.00
ATOM	16340	1HD1	ILE	1084	94.444	76.660	40.914	0.00	0.00
ATOM	16341	2HD1	ILE	1084	93.457	77.063	42.286	0.00	0.00
ATOM	16342	3HD1	ILE	1084	92.863	75.837	41.146	0.00	0.00
ATOM	16343	C	ILE	1084	93.624	81.606	39.860	0.00	0.00
ATOM	16344	O	ILE	1084	94.581	81.787	40.626	0.00	0.00
ATOM	16345	N	PRO	1085	92.886	82.621	39.346	0.00	0.00
ATOM	16346	CD	PRO	1085	91.969	82.631	38.242	0.00	0.00
ATOM	16347	HD2	PRO	1085	92.107	81.851	37.494	0.00	0.00
ATOM	16348	HD3	PRO	1085	90.931	82.534	38.558	0.00	0.00
ATOM	16349	CG	PRO	1085	92.140	83.915	37.559	0.00	0.00
ATOM	16350	HG2	PRO	1085	93.093	83.838	37.035	0.00	0.00



ATOM 16351	HG3 PRO	1085	91.250	84.081	36.951	0.00	0.00
ATOM 16352	CB PRO	1085	92.319	84.918	38.663	0.00	0.00
ATOM 16353	HB2 PRO	1085	93.011	85.722	38.416	0.00	0.00
ATOM 16354	HB3 PRO	1085	91.400	85.331	39.080	0.00	0.00
ATOM 16355	CA PRO	1085	93.168	83.999	39.666	0.00	0.00
ATOM 16356	HA PRO	1085	94.243	84.045	39.492	0.00	0.00
ATOM 16357	C PRO	1085	92.909	84.337	41.171	0.00	0.00
ATOM 16358	O PRO	1085	91.786	84.303	41.629	0.00	0.00
ATOM 16359	N ILE	1086	93.958	84.778	41.859	0.00	0.00
ATOM 16360	H ILE	1086	94.847	84.843	41.385	0.00	0.00
ATOM 16361	CA ILE	1086	93.843	85.465	43.135	0.00	0.00
ATOM 16362	HA ILE	1086	92.879	85.123	43.513	0.00	0.00
ATOM 16363	CB ILE	1086	95.015	85.028	43.983	0.00	0.00
ATOM 16364	HB ILE	1086	95.963	85.409	43.602	0.00	0.00
ATOM 16365	CG2 ILE	1086	94.691	85.709	45.350	0.00	0.00
ATOM 16366	1HG2 ILE	1086	95.358	85.236	46.071	0.00	0.00
ATOM 16367	2HG2 ILE	1086	94.912	86.773	45.275	0.00	0.00
ATOM 16368	3HG2 ILE	1086	93.690	85.439	45.688	0.00	0.00
ATOM 16369	CG1 ILE	1086	95.125	83.521	44.245	0.00	0.00
ATOM 16370	2HG1 ILE	1086	94.219	83.052	44.628	0.00	0.00
ATOM 16371	3HG1 ILE	1086	95.231	82.930	43.335	0.00	0.00
ATOM 16372	CD1 ILE	1086	96.276	83.060	45.146	0.00	0.00
ATOM 16373	1HD1 ILE	1086	95.976	82.209	45.758	0.00	0.00
ATOM 16374	2HD1 ILE	1086	97.198	82.846	44.605	0.00	0.00
ATOM 16375	3HD1 ILE	1086	96.642	83.739	45.917	0.00	0.00
ATOM 16376	C ILE	1086	93.551	86.988	42.975	0.00	0.00

ATOM	16377	O	ILE	1086	93.971	87.666	42.060	0.00	0.00
ATOM	16378	N	GLY	1087	92.733	87.559	43.896	0.00	0.00
ATOM	16379	H	GLY	1087	92.461	87.093	44.750	0.00	0.00
ATOM	16380	CA	GLY	1087	92.247	88.963	43.919	0.00	0.00
ATOM	16381	HA2	GLY	1087	91.491	89.104	43.147	0.00	0.00
ATOM	16382	HA3	GLY	1087	93.101	89.570	43.621	0.00	0.00
ATOM	16383	C	GLY	1087	91.574	89.490	45.150	0.00	0.00
ATOM	16384	O	GLY	1087	91.815	88.943	46.262	0.00	0.00
ATOM	16385	N	ALA	1088	90.734	90.450	44.980	0.00	0.00
ATOM	16386	H	ALA	1088	90.586	90.896	44.086	0.00	0.00
ATOM	16387	CA	ALA	1088	90.224	91.283	46.100	0.00	0.00
ATOM	16388	HA	ALA	1088	91.098	91.638	46.647	0.00	0.00
ATOM	16389	CB	ALA	1088	89.438	92.488	45.646	0.00	0.00
ATOM	16390	HB1	ALA	1088	88.916	92.937	46.491	0.00	0.00
ATOM	16391	HB2	ALA	1088	89.996	93.288	45.160	0.00	0.00
ATOM	16392	HB3	ALA	1088	88.691	92.122	44.942	0.00	0.00
ATOM	16393	C	ALA	1088	89.353	90.425	47.081	0.00	0.00
ATOM	16394	O	ALA	1088	89.595	90.282	48.288	0.00	0.00
ATOM	16395	N	ALA	1089	88.358	89.737	46.465	0.00	0.00
ATOM	16396	H	ALA	1089	88.418	89.761	45.457	0.00	0.00
ATOM	16397	CA	ALA	1089	87.436	88.802	47.036	0.00	0.00
ATOM	16398	HA	ALA	1089	87.021	89.354	47.879	0.00	0.00
ATOM	16399	CB	ALA	1089	86.370	88.483	46.040	0.00	0.00
ATOM	16400	HB1	ALA	1089	85.604	87.870	46.514	0.00	0.00
ATOM	16401	HB2	ALA	1089	86.014	89.447	45.675	0.00	0.00
ATOM	16402	HB3	ALA	1089	86.709	87.933	45.162	0.00	0.00

ATOM	16403	C	ALA	1089	87.945	87.534	47.630	0.00	0.00
ATOM	16404	O	ALA	1089	87.098	86.866	48.227	0.00	0.00
ATOM	16405	N	THR	1090	89.232	87.252	47.482	0.00	0.00
ATOM	16406	H	THR	1090	89.737	87.806	46.805	0.00	0.00
ATOM	16407	CA	THR	1090	89.706	85.868	47.828	0.00	0.00
ATOM	16408	HA	THR	1090	88.947	85.131	47.565	0.00	0.00
ATOM	16409	CB	THR	1090	90.975	85.463	46.914	0.00	0.00
ATOM	16410	HB	THR	1090	91.835	85.951	47.373	0.00	0.00
ATOM	16411	CG2	THR	1090	91.356	83.992	46.891	0.00	0.00
ATOM	16412	1HG2	THR	1090	91.999	83.875	47.763	0.00	0.00
ATOM	16413	2HG2	THR	1090	90.459	83.372	46.886	0.00	0.00
ATOM	16414	3HG2	THR	1090	92.075	83.754	46.108	0.00	0.00
ATOM	16415	OG1	THR	1090	90.721	85.900	45.615	0.00	0.00
ATOM	16416	HG1	THR	1090	89.855	85.635	45.297	0.00	0.00
ATOM	16417	C	THR	1090	90.166	85.834	49.308	0.00	0.00
ATOM	16418	O	THR	1090	91.043	86.560	49.675	0.00	0.00
ATOM	16419	N	GLU	1091	89.665	84.876	50.060	0.00	0.00
ATOM	16420	H	GLU	1091	89.003	84.262	49.607	0.00	0.00
ATOM	16421	CA	GLU	1091	90.204	84.254	51.262	0.00	0.00
ATOM	16422	HA	GLU	1091	90.808	85.044	51.708	0.00	0.00
ATOM	16423	CB	GLU	1091	89.005	83.827	52.075	0.00	0.00
ATOM	16424	HB2	GLU	1091	88.587	84.766	52.437	0.00	0.00
ATOM	16425	HB3	GLU	1091	88.278	83.238	51.515	0.00	0.00
ATOM	16426	CG	GLU	1091	89.274	83.085	53.456	0.00	0.00
ATOM	16427	HG2	GLU	1091	88.351	82.771	53.943	0.00	0.00
ATOM	16428	HG3	GLU	1091	89.963	82.271	53.232	0.00	0.00

ATOM	16429	CD	GLU	1091	90.166	83.917	54.357	0.00	0.00
ATOM	16430	OE1	GLU	1091	89.616	84.593	55.260	0.00	0.00
ATOM	16431	OE2	GLU	1091	91.375	83.840	54.171	0.00	0.00
ATOM	16432	C	GLU	1091	91.156	83.095	50.900	0.00	0.00
ATOM	16433	O	GLU	1091	91.026	82.459	49.872	0.00	0.00
ATOM	16434	N	VAL	1092	92.123	82.773	51.748	0.00	0.00
ATOM	16435	H	VAL	1092	92.212	83.184	52.667	0.00	0.00
ATOM	16436	CA	VAL	1092	93.052	81.676	51.587	0.00	0.00
ATOM	16437	HA	VAL	1092	92.830	81.133	50.668	0.00	0.00
ATOM	16438	CB	VAL	1092	94.479	82.218	51.663	0.00	0.00
ATOM	16439	HB	VAL	1092	94.652	82.470	52.709	0.00	0.00
ATOM	16440	CG1	VAL	1092	95.431	81.071	51.255	0.00	0.00
ATOM	16441	1HG1	VAL	1092	96.415	81.480	51.025	0.00	0.00
ATOM	16442	2HG1	VAL	1092	95.618	80.253	51.950	0.00	0.00
ATOM	16443	3HG1	VAL	1092	95.091	80.747	50.271	0.00	0.00
ATOM	16444	CG2	VAL	1092	94.650	83.413	50.751	0.00	0.00
ATOM	16445	1HG2	VAL	1092	94.262	83.158	49.765	0.00	0.00
ATOM	16446	2HG2	VAL	1092	94.081	84.270	51.113	0.00	0.00
ATOM	16447	3HG2	VAL	1092	95.711	83.655	50.699	0.00	0.00
ATOM	16448	C	VAL	1092	92.876	80.537	52.694	0.00	0.00
ATOM	16449	O	VAL	1092	92.815	80.798	53.895	0.00	0.00
ATOM	16450	N	ILE	1093	92.917	79.270	52.228	0.00	0.00
ATOM	16451	H	ILE	1093	93.013	79.130	51.232	0.00	0.00
ATOM	16452	CA	ILE	1093	93.196	78.104	53.093	0.00	0.00
ATOM	16453	HA	ILE	1093	93.202	78.445	54.128	0.00	0.00
ATOM	16454	CB	ILE	1093	92.114	77.056	52.857	0.00	0.00

ATOM 16455	HB	ILE	1093	91.982	77.083	51.775	0.00	0.00
ATOM 16456	CG2	ILE	1093	92.502	75.630	53.311	0.00	0.00
ATOM 16457	1HG2	ILE	1093	93.473	75.290	52.950	0.00	0.00
ATOM 16458	2HG2	ILE	1093	92.473	75.471	54.389	0.00	0.00
ATOM 16459	3HG2	ILE	1093	91.825	74.961	52.780	0.00	0.00
ATOM 16460	CG1	ILE	1093	90.808	77.516	53.624	0.00	0.00
ATOM 16461	2HG1	ILE	1093	90.937	77.470	54.705	0.00	0.00
ATOM 16462	3HG1	ILE	1093	90.606	78.536	53.299	0.00	0.00
ATOM 16463	CD1	ILE	1093	89.672	76.568	53.397	0.00	0.00
ATOM 16464	1HD1	ILE	1093	88.752	76.845	53.911	0.00	0.00
ATOM 16465	2HD1	ILE	1093	89.417	76.510	52.339	0.00	0.00
ATOM 16466	3HD1	ILE	1093	89.963	75.560	53.691	0.00	0.00
ATOM 16467	C	ILE	1093	94.594	77.655	52.840	0.00	0.00
ATOM 16468	O	ILE	1093	94.949	77.107	51.766	0.00	0.00
ATOM 16469	N	ALA	1094	95.429	77.815	53.886	0.00	0.00
ATOM 16470	H	ALA	1094	95.001	78.090	54.759	0.00	0.00
ATOM 16471	CA	ALA	1094	96.870	77.784	53.755	0.00	0.00
ATOM 16472	HA	ALA	1094	97.137	77.686	52.703	0.00	0.00
ATOM 16473	CB	ALA	1094	97.579	78.988	54.377	0.00	0.00
ATOM 16474	HB1	ALA	1094	98.641	79.037	54.136	0.00	0.00
ATOM 16475	HB2	ALA	1094	97.167	79.907	53.960	0.00	0.00
ATOM 16476	HB3	ALA	1094	97.314	78.994	55.434	0.00	0.00
ATOM 16477	C	ALA	1094	97.257	76.439	54.346	0.00	0.00
ATOM 16478	O	ALA	1094	97.865	76.364	55.404	0.00	0.00
ATOM 16479	N	ALA	1095	96.836	75.381	53.677	0.00	0.00
ATOM 16480	H	ALA	1095	96.522	75.653	52.757	0.00	0.00

ATOM 16481	CA	ALA	1095	96.796	73.947	54.050	0.00	0.00
ATOM 16482	HA	ALA	1095	96.588	73.881	55.117	0.00	0.00
ATOM 16483	CB	ALA	1095	95.656	73.211	53.206	0.00	0.00
ATOM 16484	HB1	ALA	1095	95.732	72.135	53.365	0.00	0.00
ATOM 16485	HB2	ALA	1095	94.700	73.419	53.686	0.00	0.00
ATOM 16486	HB3	ALA	1095	95.818	73.441	52.154	0.00	0.00
ATOM 16487	C	ALA	1095	98.162	73.241	53.915	0.00	0.00
ATOM 16488	O	ALA	1095	98.210	72.180	53.294	0.00	0.00
ATOM 16489	N	GLU	1096	99.206	73.824	54.401	0.00	0.00
ATOM 16490	H	GLU	1096	98.882	74.650	54.885	0.00	0.00
ATOM 16491	CA	GLU	1096	100.617	73.526	54.059	0.00	0.00
ATOM 16492	HA	GLU	1096	100.653	73.504	52.969	0.00	0.00
ATOM 16493	CB	GLU	1096	101.542	74.690	54.483	0.00	0.00
ATOM 16494	HB2	GLU	1096	101.335	75.078	55.480	0.00	0.00
ATOM 16495	HB3	GLU	1096	102.563	74.349	54.308	0.00	0.00
ATOM 16496	CG	GLU	1096	101.258	75.904	53.627	0.00	0.00
ATOM 16497	HG2	GLU	1096	101.081	75.579	52.602	0.00	0.00
ATOM 16498	HG3	GLU	1096	100.327	76.340	53.990	0.00	0.00
ATOM 16499	CD	GLU	1096	102.303	76.984	53.769	0.00	0.00
ATOM 16500	OE1	GLU	1096	103.479	76.673	53.399	0.00	0.00
ATOM 16501	OE2	GLU	1096	101.998	78.065	54.261	0.00	0.00
ATOM 16502	C	GLU	1096	100.973	72.206	54.586	0.00	0.00
ATOM 16503	O	GLU	1096	101.067	72.024	55.838	0.00	0.00
ATOM 16504	N	GLY	1097	101.308	71.317	53.697	0.00	0.00
ATOM 16505	H	GLY	1097	101.270	71.654	52.746	0.00	0.00
ATOM 16506	CA	GLY	1097	101.658	69.879	53.856	0.00	0.00

ATOM	16507	HA2	GLY	1097	102.138	69.567	52.928	0.00	0.00
ATOM	16508	HA3	GLY	1097	102.270	69.825	54.756	0.00	0.00
ATOM	16509	C	GLY	1097	100.441	68.995	54.019	0.00	0.00
ATOM	16510	O	GLY	1097	100.533	67.760	53.847	0.00	0.00
ATOM	16511	N	LYS	1098	99.244	69.521	54.286	0.00	0.00
ATOM	16512	H	LYS	1098	99.104	70.517	54.192	0.00	0.00
ATOM	16513	CA	LYS	1098	98.011	68.723	54.493	0.00	0.00
ATOM	16514	HA	LYS	1098	98.229	67.909	55.185	0.00	0.00
ATOM	16515	CB	LYS	1098	96.842	69.494	55.231	0.00	0.00
ATOM	16516	HB2	LYS	1098	96.450	70.237	54.536	0.00	0.00
ATOM	16517	HB3	LYS	1098	96.048	68.786	55.467	0.00	0.00
ATOM	16518	CG	LYS	1098	97.278	70.096	56.635	0.00	0.00
ATOM	16519	HG2	LYS	1098	98.064	69.506	57.105	0.00	0.00
ATOM	16520	HG3	LYS	1098	97.728	71.072	56.457	0.00	0.00
ATOM	16521	CD	LYS	1098	96.101	70.200	57.574	0.00	0.00
ATOM	16522	HD2	LYS	1098	95.491	71.053	57.278	0.00	0.00
ATOM	16523	HD3	LYS	1098	95.512	69.287	57.485	0.00	0.00
ATOM	16524	CE	LYS	1098	96.555	70.357	59.053	0.00	0.00
ATOM	16525	HE2	LYS	1098	95.688	70.316	59.713	0.00	0.00
ATOM	16526	HE3	LYS	1098	97.108	69.458	59.325	0.00	0.00
ATOM	16527	NZ	LYS	1098	97.382	71.536	59.363	0.00	0.00
ATOM	16528	HZ1	LYS	1098	97.543	71.552	60.360	0.00	0.00
ATOM	16529	HZ2	LYS	1098	98.243	71.623	58.842	0.00	0.00
ATOM	16530	HZ3	LYS	1098	96.818	72.362	59.220	0.00	0.00
ATOM	16531	C	LYS	1098	97.546	67.988	53.216	0.00	0.00
ATOM	16532	O	LYS	1098	97.683	68.503	52.093	0.00	0.00

ATOM 16533	N	ILE	1099	96.871	66.895	53.450	0.00	0.00
ATOM 16534	H	ILE	1099	96.624	66.729	54.416	0.00	0.00
ATOM 16535	CA	ILE	1099	96.108	66.112	52.454	0.00	0.00
ATOM 16536	HA	ILE	1099	96.666	66.234	51.526	0.00	0.00
ATOM 16537	CB	ILE	1099	96.148	64.603	52.833	0.00	0.00
ATOM 16538	HB	ILE	1099	95.602	64.510	53.772	0.00	0.00
ATOM 16539	CG2	ILE	1099	95.355	63.868	51.667	0.00	0.00
ATOM 16540	1HG2	ILE	1099	95.712	64.117	50.667	0.00	0.00
ATOM 16541	2HG2	ILE	1099	95.307	62.782	51.741	0.00	0.00
ATOM 16542	3HG2	ILE	1099	94.307	64.169	51.692	0.00	0.00
ATOM 16543	CG1	ILE	1099	97.638	64.051	53.031	0.00	0.00
ATOM 16544	2HG1	ILE	1099	98.148	64.319	52.106	0.00	0.00
ATOM 16545	3HG1	ILE	1099	98.188	64.567	53.818	0.00	0.00
ATOM 16546	CD1	ILE	1099	97.864	62.496	53.091	0.00	0.00
ATOM 16547	1HD1	ILE	1099	98.920	62.258	53.219	0.00	0.00
ATOM 16548	2HD1	ILE	1099	97.290	62.210	53.972	0.00	0.00
ATOM 16549	3HD1	ILE	1099	97.515	61.914	52.238	0.00	0.00
ATOM 16550	C	ILE	1099	94.637	66.708	52.292	0.00	0.00
ATOM 16551	O	ILE	1099	94.089	67.122	53.366	0.00	0.00
ATOM 16552	N	VAL	1100	94.108	66.871	51.035	0.00	0.00
ATOM 16553	H	VAL	1100	94.648	66.559	50.241	0.00	0.00
ATOM 16554	CA	VAL	1100	92.704	67.284	50.839	0.00	0.00
ATOM 16555	HA	VAL	1100	92.162	67.346	51.783	0.00	0.00
ATOM 16556	CB	VAL	1100	92.584	68.781	50.345	0.00	0.00
ATOM 16557	HB	VAL	1100	92.981	69.407	51.144	0.00	0.00
ATOM 16558	CG1	VAL	1100	93.210	69.071	48.973	0.00	0.00



ATOM	16559	1HG1	VAL	1100	94.285	68.925	49.082	0.00	0.00
ATOM	16560	2HG1	VAL	1100	92.888	68.433	48.150	0.00	0.00
ATOM	16561	3HG1	VAL	1100	93.176	70.108	48.639	0.00	0.00
ATOM	16562	CG2	VAL	1100	91.159	69.298	50.241	0.00	0.00
ATOM	16563	1HG2	VAL	1100	90.704	69.341	51.231	0.00	0.00
ATOM	16564	2HG2	VAL	1100	91.123	70.283	49.775	0.00	0.00
ATOM	16565	3HG2	VAL	1100	90.497	68.663	49.653	0.00	0.00
ATOM	16566	C	VAL	1100	91.950	66.261	49.961	0.00	0.00
ATOM	16567	O	VAL	1100	92.349	65.875	48.873	0.00	0.00
ATOM	16568	N	THR	1101	90.727	65.950	50.468	0.00	0.00
ATOM	16569	H	THR	1101	90.326	66.515	51.202	0.00	0.00
ATOM	16570	CA	THR	1101	89.810	65.043	49.758	0.00	0.00
ATOM	16571	HA	THR	1101	90.208	64.707	48.801	0.00	0.00
ATOM	16572	CB	THR	1101	89.592	63.763	50.673	0.00	0.00
ATOM	16573	HB	THR	1101	88.949	63.137	50.055	0.00	0.00
ATOM	16574	CG2	THR	1101	90.915	62.954	50.968	0.00	0.00
ATOM	16575	1HG2	THR	1101	90.749	62.228	51.764	0.00	0.00
ATOM	16576	2HG2	THR	1101	91.297	62.445	50.082	0.00	0.00
ATOM	16577	3HG2	THR	1101	91.572	63.671	51.460	0.00	0.00
ATOM	16578	OG1	THR	1101	88.873	63.815	51.875	0.00	0.00
ATOM	16579	HG1	THR	1101	87.955	63.898	51.608	0.00	0.00
ATOM	16580	C	THR	1101	88.487	65.737	49.594	0.00	0.00
ATOM	16581	O	THR	1101	88.127	66.698	50.262	0.00	0.00
ATOM	16582	N	ALA	1102	87.562	65.233	48.725	0.00	0.00
ATOM	16583	H	ALA	1102	87.804	64.468	48.112	0.00	0.00
ATOM	16584	CA	ALA	1102	86.122	65.608	48.784	0.00	0.00

ATOM 16585	HA	ALA	1102	85.943	66.681	48.861	0.00	0.00
ATOM 16586	CB	ALA	1102	85.509	65.164	47.413	0.00	0.00
ATOM 16587	HB1	ALA	1102	84.439	64.961	47.367	0.00	0.00
ATOM 16588	HB2	ALA	1102	85.607	65.983	46.700	0.00	0.00
ATOM 16589	HB3	ALA	1102	85.949	64.247	47.020	0.00	0.00
ATOM 16590	C	ALA	1102	85.506	64.997	50.019	0.00	0.00
ATOM 16591	O	ALA	1102	86.010	64.024	50.623	0.00	0.00
ATOM 16592	N	GLY	1103	84.330	65.582	50.483	0.00	0.00
ATOM 16593	H	GLY	1103	84.029	66.405	49.982	0.00	0.00
ATOM 16594	CA	GLY	1103	83.632	65.156	51.701	0.00	0.00
ATOM 16595	HA2	GLY	1103	84.433	64.904	52.396	0.00	0.00
ATOM 16596	HA3	GLY	1103	82.956	65.919	52.087	0.00	0.00
ATOM 16597	C	GLY	1103	82.825	63.833	51.473	0.00	0.00
ATOM 16598	O	GLY	1103	82.238	63.638	50.414	0.00	0.00
ATOM 16599	N	GLY	1104	82.964	62.889	52.394	0.00	0.00
ATOM 16600	H	GLY	1104	83.471	63.066	53.249	0.00	0.00
ATOM 16601	CA	GLY	1104	82.435	61.583	52.171	0.00	0.00
ATOM 16602	HA2	GLY	1104	82.829	61.194	51.232	0.00	0.00
ATOM 16603	HA3	GLY	1104	82.744	60.876	52.941	0.00	0.00
ATOM 16604	C	GLY	1104	80.909	61.344	52.002	0.00	0.00
ATOM 16605	O	GLY	1104	80.106	62.161	52.453	0.00	0.00
ATOM 16606	N	ILE	1105	80.437	60.218	51.402	0.00	0.00
ATOM 16607	H	ILE	1105	81.044	59.568	50.924	0.00	0.00
ATOM 16608	CA	ILE	1105	79.013	59.831	51.414	0.00	0.00
ATOM 16609	HA	ILE	1105	78.490	60.555	52.039	0.00	0.00
ATOM 16610	CB	ILE	1105	78.451	59.914	49.950	0.00	0.00

ATOM 16611	HB	ILE	1105	78.580	58.897	49.580	0.00	0.00
ATOM 16612	CG2	ILE	1105	76.931	59.935	49.959	0.00	0.00
ATOM 16613	1HG2	ILE	1105	76.597	58.898	50.003	0.00	0.00
ATOM 16614	2HG2	ILE	1105	76.382	60.515	50.701	0.00	0.00
ATOM 16615	3HG2	ILE	1105	76.560	60.366	49.030	0.00	0.00
ATOM 16616	CG1	ILE	1105	79.178	60.911	49.036	0.00	0.00
ATOM 16617	2HG1	ILE	1105	79.608	61.720	49.627	0.00	0.00
ATOM 16618	3HG1	ILE	1105	80.066	60.383	48.690	0.00	0.00
ATOM 16619	CD1	ILE	1105	78.423	61.523	47.877	0.00	0.00
ATOM 16620	1HD1	ILE	1105	77.802	62.345	48.231	0.00	0.00
ATOM 16621	2HD1	ILE	1105	79.139	62.023	47.225	0.00	0.00
ATOM 16622	3HD1	ILE	1105	77.738	60.813	47.413	0.00	0.00
ATOM 16623	C	ILE	1105	78.846	58.443	52.079	0.00	0.00
ATOM 16624	O	ILE	1105	79.476	57.471	51.633	0.00	0.00
ATOM 16625	N	ASP	1106	77.893	58.377	53.039	0.00	0.00
ATOM 16626	H	ASP	1106	77.416	59.229	53.295	0.00	0.00
ATOM 16627	CA	ASP	1106	77.379	57.037	53.427	0.00	0.00
ATOM 16628	HA	ASP	1106	78.052	56.321	52.955	0.00	0.00
ATOM 16629	CB	ASP	1106	77.288	56.780	54.932	0.00	0.00
ATOM 16630	HB2	ASP	1106	78.161	57.271	55.361	0.00	0.00
ATOM 16631	HB3	ASP	1106	76.400	57.293	55.300	0.00	0.00
ATOM 16632	CG	ASP	1106	77.263	55.280	55.238	0.00	0.00
ATOM 16633	OD1	ASP	1106	78.319	54.618	55.269	0.00	0.00
ATOM 16634	OD2	ASP	1106	76.137	54.741	55.395	0.00	0.00
ATOM 16635	C	ASP	1106	76.004	56.877	52.724	0.00	0.00
ATOM 16636	O	ASP	1106	75.330	57.864	52.449	0.00	0.00

ATOM	16637	N	THR	1107	75.584	55.654	52.597	0.00	0.00
ATOM	16638	H	THR	1107	76.135	54.911	53.002	0.00	0.00
ATOM	16639	CA	THR	1107	74.381	55.268	51.766	0.00	0.00
ATOM	16640	HA	THR	1107	73.825	56.152	51.452	0.00	0.00
ATOM	16641	CB	THR	1107	74.912	54.494	50.560	0.00	0.00
ATOM	16642	HB	THR	1107	74.098	54.033	50.000	0.00	0.00
ATOM	16643	CG2	THR	1107	75.746	55.349	49.693	0.00	0.00
ATOM	16644	1HG2	THR	1107	75.984	54.834	48.763	0.00	0.00
ATOM	16645	2HG2	THR	1107	75.296	56.323	49.500	0.00	0.00
ATOM	16646	3HG2	THR	1107	76.745	55.457	50.116	0.00	0.00
ATOM	16647	OG1	THR	1107	75.744	53.470	50.991	0.00	0.00
ATOM	16648	HG1	THR	1107	76.223	53.288	50.178	0.00	0.00
ATOM	16649	C	THR	1107	73.356	54.454	52.553	0.00	0.00
ATOM	16650	O	THR	1107	72.261	54.200	52.071	0.00	0.00
ATOM	16651	N	H21	1108	73.727	54.067	53.786	0.00	0.00
ATOM	16652	H	H21	1108	74.700	54.148	54.044	0.00	0.00
ATOM	16653	CA	H21	1108	72.947	53.218	54.700	0.00	0.00
ATOM	16654	HA	H21	1108	71.996	53.242	54.168	0.00	0.00
ATOM	16655	CB	H21	1108	73.605	51.825	54.617	0.00	0.00
ATOM	16656	HB2	H21	1108	73.828	51.759	53.552	0.00	0.00
ATOM	16657	HB3	H21	1108	74.511	51.916	55.216	0.00	0.00
ATOM	16658	CG	H21	1108	72.786	50.626	55.061	0.00	0.00
ATOM	16659	ND1	H21	1108	72.977	49.313	54.628	0.00	0.00
ATOM	16660	HD1	H21	1108	73.477	49.138	53.767	0.00	0.00
ATOM	16661	CE1	H21	1108	72.349	48.482	55.471	0.00	0.00
ATOM	16662	HE1	H21	1108	72.575	47.434	55.599	0.00	0.00

ATOM	16663	NE2	H21	1108	71.662	49.169	56.413	0.00	0.00
ATOM	16664	CD2	H21	1108	71.955	50.507	56.097	0.00	0.00
ATOM	16665	HD2	H21	1108	71.607	51.285	56.760	0.00	0.00
ATOM	16666	C	H21	1108	72.775	53.877	56.064	0.00	0.00
ATOM	16667	O	H21	1108	72.886	53.168	57.083	0.00	0.00
ATOM	16668	N	ILE	1109	72.556	55.213	56.072	0.00	0.00
ATOM	16669	H	ILE	1109	72.487	55.806	55.257	0.00	0.00
ATOM	16670	CA	ILE	1109	72.171	55.827	57.376	0.00	0.00
ATOM	16671	HA	ILE	1109	72.950	55.513	58.071	0.00	0.00
ATOM	16672	CB	ILE	1109	72.291	57.305	57.286	0.00	0.00
ATOM	16673	HB	ILE	1109	71.735	57.623	56.403	0.00	0.00
ATOM	16674	CG2	ILE	1109	71.645	58.037	58.518	0.00	0.00
ATOM	16675	1HG2	ILE	1109	71.930	57.421	59.371	0.00	0.00
ATOM	16676	2HG2	ILE	1109	71.842	59.097	58.682	0.00	0.00
ATOM	16677	3HG2	ILE	1109	70.568	57.972	58.367	0.00	0.00
ATOM	16678	CG1	ILE	1109	73.731	57.802	57.116	0.00	0.00
ATOM	16679	2HG1	ILE	1109	74.100	57.235	56.261	0.00	0.00
ATOM	16680	3HG1	ILE	1109	73.659	58.854	56.838	0.00	0.00
ATOM	16681	CD1	ILE	1109	74.606	57.605	58.367	0.00	0.00
ATOM	16682	1HD1	ILE	1109	74.467	58.463	59.025	0.00	0.00
ATOM	16683	2HD1	ILE	1109	74.349	56.623	58.765	0.00	0.00
ATOM	16684	3HD1	ILE	1109	75.596	57.614	57.912	0.00	0.00
ATOM	16685	C	ILE	1109	70.722	55.410	57.730	0.00	0.00
ATOM	16686	O	ILE	1109	69.763	55.836	57.049	0.00	0.00
ATOM	16687	N	H22	1110	70.613	54.580	58.785	0.00	0.00
ATOM	16688	H	H22	1110	71.456	54.394	59.309	0.00	0.00

ATOM	16689	CA	H22	1110	69.341	54.593	59.548	0.00	0.00
ATOM	16690	HA	H22	1110	68.489	54.456	58.882	0.00	0.00
ATOM	16691	CB	H22	1110	69.293	53.413	60.575	0.00	0.00
ATOM	16692	HB2	H22	1110	70.254	53.428	61.089	0.00	0.00
ATOM	16693	HB3	H22	1110	68.475	53.680	61.245	0.00	0.00
ATOM	16694	CG	H22	1110	69.236	52.046	59.916	0.00	0.00
ATOM	16695	ND1	H22	1110	68.145	51.280	59.783	0.00	0.00
ATOM	16696	HD1	H22	1110	67.226	51.437	60.173	0.00	0.00
ATOM	16697	CE1	H22	1110	68.482	50.133	59.261	0.00	0.00
ATOM	16698	HE1	H22	1110	67.810	49.328	59.001	0.00	0.00
ATOM	16699	NE2	H22	1110	69.766	50.063	58.944	0.00	0.00
ATOM	16700	CD2	H22	1110	70.307	51.305	59.436	0.00	0.00
ATOM	16701	HD2	H22	1110	71.350	51.581	59.488	0.00	0.00
ATOM	16702	C	H22	1110	69.149	55.930	60.295	0.00	0.00
ATOM	16703	O	H22	1110	69.883	56.132	61.262	0.00	0.00
ATOM	16704	N	TRP	1111	68.072	56.689	60.026	0.00	0.00
ATOM	16705	H	TRP	1111	67.401	56.540	59.285	0.00	0.00
ATOM	16706	CA	TRP	1111	67.811	57.840	60.874	0.00	0.00
ATOM	16707	HA	TRP	1111	68.774	58.350	60.904	0.00	0.00
ATOM	16708	CB	TRP	1111	66.917	58.845	60.115	0.00	0.00
ATOM	16709	HB2	TRP	1111	66.038	58.262	59.842	0.00	0.00
ATOM	16710	HB3	TRP	1111	66.667	59.618	60.841	0.00	0.00
ATOM	16711	CG	TRP	1111	67.488	59.463	58.837	0.00	0.00
ATOM	16712	CD1	TRP	1111	66.994	59.312	57.598	0.00	0.00
ATOM	16713	HD1	TRP	1111	66.132	58.742	57.286	0.00	0.00
ATOM	16714	NE1	TRP	1111	67.791	59.930	56.637	0.00	0.00

ATOM	16715	HE1	TRP	1111	67.707	59.720	55.652	0.00	0.00
ATOM	16716	CE2	TRP	1111	68.900	60.504	57.210	0.00	0.00
ATOM	16717	CZ2	TRP	1111	69.925	61.285	56.577	0.00	0.00
ATOM	16718	HZ2	TRP	1111	70.016	61.500	55.522	0.00	0.00
ATOM	16719	CH2	TRP	1111	70.903	61.770	57.447	0.00	0.00
ATOM	16720	HH2	TRP	1111	71.809	62.302	57.196	0.00	0.00
ATOM	16721	CZ3	TRP	1111	70.822	61.604	58.823	0.00	0.00
ATOM	16722	HZ3	TRP	1111	71.611	62.024	59.429	0.00	0.00
ATOM	16723	CE3	TRP	1111	69.833	60.807	59.414	0.00	0.00
ATOM	16724	HE3	TRP	1111	69.756	60.822	60.491	0.00	0.00
ATOM	16725	CD2	TRP	1111	68.767	60.233	58.613	0.00	0.00
ATOM	16726	C	TRP	1111	67.149	57.468	62.228	0.00	0.00
ATOM	16727	O	TRP	1111	65.969	57.290	62.274	0.00	0.00
ATOM	16728	N	ILE	1112	67.981	57.346	63.247	0.00	0.00
ATOM	16729	H	ILE	1112	68.956	57.556	63.091	0.00	0.00
ATOM	16730	CA	ILE	1112	67.557	56.907	64.598	0.00	0.00
ATOM	16731	HA	ILE	1112	66.529	56.545	64.593	0.00	0.00
ATOM	16732	CB	ILE	1112	68.346	55.641	65.021	0.00	0.00
ATOM	16733	HB	ILE	1112	69.401	55.830	64.824	0.00	0.00
ATOM	16734	CG2	ILE	1112	68.188	55.287	66.540	0.00	0.00
ATOM	16735	1HG2	ILE	1112	68.834	54.527	66.978	0.00	0.00
ATOM	16736	2HG2	ILE	1112	68.334	56.169	67.164	0.00	0.00
ATOM	16737	3HG2	ILE	1112	67.155	55.004	66.737	0.00	0.00
ATOM	16738	CG1	ILE	1112	67.936	54.426	64.139	0.00	0.00
ATOM	16739	2HG1	ILE	1112	66.856	54.405	64.284	0.00	0.00
ATOM	16740	3HG1	ILE	1112	68.074	54.785	63.119	0.00	0.00

ATOM	16741	CD1	ILE	1112	68.727	53.120	64.234	0.00	0.00
ATOM	16742	1HD1	ILE	1112	69.659	53.233	63.680	0.00	0.00
ATOM	16743	2HD1	ILE	1112	68.990	52.893	65.267	0.00	0.00
ATOM	16744	3HD1	ILE	1112	68.187	52.243	63.879	0.00	0.00
ATOM	16745	C	ILE	1112	67.685	58.070	65.546	0.00	0.00
ATOM	16746	O	ILE	1112	66.838	58.319	66.370	0.00	0.00
ATOM	16747	N	CYS	1113	68.811	58.828	65.431	0.00	0.00
ATOM	16748	H	CYS	1113	69.573	58.532	64.838	0.00	0.00
ATOM	16749	CA	CYS	1113	69.040	60.024	66.361	0.00	0.00
ATOM	16750	HA	CYS	1113	68.053	60.454	66.525	0.00	0.00
ATOM	16751	CB	CYS	1113	69.699	59.543	67.615	0.00	0.00
ATOM	16752	HB2	CYS	1113	69.753	60.436	68.237	0.00	0.00
ATOM	16753	HB3	CYS	1113	69.147	58.730	68.086	0.00	0.00
ATOM	16754	SG	CYS	1113	71.371	58.830	67.320	0.00	0.00
ATOM	16755	HG	CYS	1113	72.107	59.910	67.044	0.00	0.00
ATOM	16756	C	CYS	1113	69.838	61.084	65.593	0.00	0.00
ATOM	16757	O	CYS	1113	70.716	60.840	64.794	0.00	0.00
ATOM	16758	N	PRO	1114	69.489	62.406	65.707	0.00	0.00
ATOM	16759	CD	PRO	1114	68.515	62.796	66.655	0.00	0.00
ATOM	16760	HD2	PRO	1114	67.492	62.570	66.353	0.00	0.00
ATOM	16761	HD3	PRO	1114	68.671	62.481	67.687	0.00	0.00
ATOM	16762	CG	PRO	1114	68.683	64.340	66.662	0.00	0.00
ATOM	16763	HG2	PRO	1114	67.806	64.908	66.974	0.00	0.00
ATOM	16764	HG3	PRO	1114	69.451	64.592	67.394	0.00	0.00
ATOM	16765	CB	PRO	1114	69.106	64.786	65.321	0.00	0.00
ATOM	16766	HB2	PRO	1114	68.241	64.975	64.686	0.00	0.00



ATOM 16767	HB3 PRO	1114	69.583	65.763	65.393	0.00	0.00
ATOM 16768	CA PRO	1114	69.971	63.530	64.974	0.00	0.00
ATOM 16769	HA PRO	1114	69.810	63.408	63.903	0.00	0.00
ATOM 16770	C PRO	1114	71.469	63.811	65.192	0.00	0.00
ATOM 16771	O PRO	1114	72.068	64.561	64.480	0.00	0.00
ATOM 16772	N GLN	1115	72.085	63.256	66.247	0.00	0.00
ATOM 16773	H GLN	1115	71.549	62.752	66.939	0.00	0.00
ATOM 16774	CA GLN	1115	73.515	63.308	66.543	0.00	0.00
ATOM 16775	HA GLN	1115	73.856	64.330	66.374	0.00	0.00
ATOM 16776	CB GLN	1115	73.847	62.833	67.947	0.00	0.00
ATOM 16777	HB2 GLN	1115	73.500	61.808	68.073	0.00	0.00
ATOM 16778	HB3 GLN	1115	74.913	62.978	68.123	0.00	0.00
ATOM 16779	CG GLN	1115	73.046	63.710	68.961	0.00	0.00
ATOM 16780	HG2 GLN	1115	73.492	63.451	69.921	0.00	0.00
ATOM 16781	HG3 GLN	1115	73.143	64.779	68.771	0.00	0.00
ATOM 16782	CD GLN	1115	71.613	63.392	69.216	0.00	0.00
ATOM 16783	OE1 GLN	1115	71.152	62.323	68.905	0.00	0.00
ATOM 16784	NE2 GLN	1115	70.796	64.321	69.667	0.00	0.00
ATOM 16785	1HE2 GLN	1115	69.845	63.987	69.736	0.00	0.00
ATOM 16786	2HE2 GLN	1115	71.089	65.282	69.768	0.00	0.00
ATOM 16787	C GLN	1115	74.272	62.523	65.538	0.00	0.00
ATOM 16788	O GLN	1115	75.428	62.750	65.386	0.00	0.00
ATOM 16789	N GLN	1116	73.629	61.637	64.733	0.00	0.00
ATOM 16790	H GLN	1116	72.663	61.419	64.932	0.00	0.00
ATOM 16791	CA GLN	1116	74.131	61.063	63.466	0.00	0.00
ATOM 16792	HA GLN	1116	74.949	60.353	63.593	0.00	0.00

ATOM 16793	CB	GLN	1116	72.999	60.173	62.869	0.00	0.00
ATOM 16794	HB2	GLN	1116	72.084	60.706	62.610	0.00	0.00
ATOM 16795	HB3	GLN	1116	73.294	59.940	61.846	0.00	0.00
ATOM 16796	CG	GLN	1116	72.902	58.853	63.703	0.00	0.00
ATOM 16797	HG2	GLN	1116	73.854	58.352	63.530	0.00	0.00
ATOM 16798	HG3	GLN	1116	72.680	59.166	64.724	0.00	0.00
ATOM 16799	CD	GLN	1116	71.668	58.067	63.295	0.00	0.00
ATOM 16800	OE1	GLN	1116	70.579	58.493	62.887	0.00	0.00
ATOM 16801	NE2	GLN	1116	71.784	56.805	63.375	0.00	0.00
ATOM 16802	1HE2	GLN	1116	71.189	56.242	62.784	0.00	0.00
ATOM 16803	2HE2	GLN	1116	72.625	56.411	63.772	0.00	0.00
ATOM 16804	C	GLN	1116	74.655	62.114	62.496	0.00	0.00
ATOM 16805	O	GLN	1116	75.761	61.979	62.018	0.00	0.00
ATOM 16806	N	ALA	1117	73.945	63.226	62.301	0.00	0.00
ATOM 16807	H	ALA	1117	73.053	63.375	62.750	0.00	0.00
ATOM 16808	CA	ALA	1117	74.554	64.245	61.384	0.00	0.00
ATOM 16809	HA	ALA	1117	74.826	63.747	60.453	0.00	0.00
ATOM 16810	CB	ALA	1117	73.507	65.231	61.094	0.00	0.00
ATOM 16811	HB1	ALA	1117	73.070	65.691	61.980	0.00	0.00
ATOM 16812	HB2	ALA	1117	73.979	66.027	60.519	0.00	0.00
ATOM 16813	HB3	ALA	1117	72.692	64.821	60.496	0.00	0.00
ATOM 16814	C	ALA	1117	75.758	65.001	61.951	0.00	0.00
ATOM 16815	O	ALA	1117	76.251	65.898	61.264	0.00	0.00
ATOM 16816	N	GLU	1118	76.231	64.606	63.219	0.00	0.00
ATOM 16817	H	GLU	1118	75.759	63.892	63.755	0.00	0.00
ATOM 16818	CA	GLU	1118	77.349	65.341	63.882	0.00	0.00

ATOM 16819	HA	GLU 1118	77.737	66.178	63.301	0.00	0.00
ATOM 16820	CB	GLU 1118	76.844	65.909	65.208	0.00	0.00
ATOM 16821	HB2	GLU 1118	76.037	66.575	64.902	0.00	0.00
ATOM 16822	HB3	GLU 1118	76.613	65.080	65.877	0.00	0.00
ATOM 16823	CG	GLU 1118	77.942	66.636	65.948	0.00	0.00
ATOM 16824	HG2	GLU 1118	78.744	65.987	66.299	0.00	0.00
ATOM 16825	HG3	GLU 1118	78.454	67.395	65.356	0.00	0.00
ATOM 16826	CD	GLU 1118	77.388	67.378	67.120	0.00	0.00
ATOM 16827	OE1	GLU 1118	78.193	67.783	68.029	0.00	0.00
ATOM 16828	OE2	GLU 1118	76.154	67.474	67.349	0.00	0.00
ATOM 16829	C	GLU 1118	78.539	64.374	64.013	0.00	0.00
ATOM 16830	O	GLU 1118	79.654	64.717	63.667	0.00	0.00
ATOM 16831	N	GLU 1119	78.375	63.144	64.528	0.00	0.00
ATOM 16832	H	GLU 1119	77.421	62.978	64.812	0.00	0.00
ATOM 16833	CA	GLU 1119	79.316	62.120	64.840	0.00	0.00
ATOM 16834	HA	GLU 1119	79.997	62.523	65.589	0.00	0.00
ATOM 16835	CB	GLU 1119	78.475	61.010	65.518	0.00	0.00
ATOM 16836	HB2	GLU 1119	77.818	60.534	64.791	0.00	0.00
ATOM 16837	HB3	GLU 1119	77.878	61.347	66.365	0.00	0.00
ATOM 16838	CG	GLU 1119	79.424	59.916	66.064	0.00	0.00
ATOM 16839	HG2	GLU 1119	78.814	59.039	66.280	0.00	0.00
ATOM 16840	HG3	GLU 1119	80.111	59.511	65.320	0.00	0.00
ATOM 16841	CD	GLU 1119	80.179	60.447	67.342	0.00	0.00
ATOM 16842	OE1	GLU 1119	81.444	60.596	67.335	0.00	0.00
ATOM 16843	OE2	GLU 1119	79.468	60.545	68.366	0.00	0.00
ATOM 16844	C	GLU 1119	80.063	61.579	63.592	0.00	0.00

ATOM 16845	O	GLU	1119	81.225	61.230	63.580	0.00	0.00
ATOM 16846	N	ALA	1120	79.284	61.510	62.499	0.00	0.00
ATOM 16847	H	ALA	1120	78.302	61.743	62.549	0.00	0.00
ATOM 16848	CA	ALA	1120	79.940	61.265	61.223	0.00	0.00
ATOM 16849	HA	ALA	1120	80.850	60.691	61.397	0.00	0.00
ATOM 16850	CB	ALA	1120	78.979	60.596	60.312	0.00	0.00
ATOM 16851	HB1	ALA	1120	78.573	59.806	60.943	0.00	0.00
ATOM 16852	HB2	ALA	1120	78.291	61.313	59.864	0.00	0.00
ATOM 16853	HB3	ALA	1120	79.534	60.151	59.486	0.00	0.00
ATOM 16854	C	ALA	1120	80.524	62.564	60.572	0.00	0.00
ATOM 16855	O	ALA	1120	81.459	62.388	59.810	0.00	0.00
ATOM 16856	N	LEU	1121	79.973	63.765	60.903	0.00	0.00
ATOM 16857	H	LEU	1121	79.376	63.880	61.710	0.00	0.00
ATOM 16858	CA	LEU	1121	80.519	64.993	60.286	0.00	0.00
ATOM 16859	HA	LEU	1121	80.832	64.791	59.261	0.00	0.00
ATOM 16860	CB	LEU	1121	79.340	65.999	60.368	0.00	0.00
ATOM 16861	HB2	LEU	1121	78.440	65.438	60.114	0.00	0.00
ATOM 16862	HB3	LEU	1121	79.280	66.323	61.407	0.00	0.00
ATOM 16863	CG	LEU	1121	79.480	67.149	59.377	0.00	0.00
ATOM 16864	HG	LEU	1121	80.387	67.659	59.698	0.00	0.00
ATOM 16865	CD1	LEU	1121	79.574	66.746	57.987	0.00	0.00
ATOM 16866	1HD1	LEU	1121	80.456	66.115	57.887	0.00	0.00
ATOM 16867	2HD1	LEU	1121	78.637	66.255	57.723	0.00	0.00
ATOM 16868	3HD1	LEU	1121	79.712	67.532	57.245	0.00	0.00
ATOM 16869	CD2	LEU	1121	78.427	68.199	59.700	0.00	0.00
ATOM 16870	1HD2	LEU	1121	77.469	67.682	59.746	0.00	0.00

ATOM 16871	2HD2	LEU	1121	78.725	68.662	60.641	0.00	0.00
ATOM 16872	3HD2	LEU	1121	78.343	69.003	58.969	0.00	0.00
ATOM 16873	C	LEU	1121	81.872	65.451	60.832	0.00	0.00
ATOM 16874	O	LEU	1121	82.686	66.010	60.137	0.00	0.00
ATOM 16875	N	VAL	1122	82.203	65.158	62.128	0.00	0.00
ATOM 16876	H	VAL	1122	81.444	64.803	62.692	0.00	0.00
ATOM 16877	CA	VAL	1122	83.567	65.412	62.657	0.00	0.00
ATOM 16878	HA	VAL	1122	83.928	66.389	62.338	0.00	0.00
ATOM 16879	CB	VAL	1122	83.771	65.219	64.159	0.00	0.00
ATOM 16880	HB	VAL	1122	84.795	65.428	64.467	0.00	0.00
ATOM 16881	CG1	VAL	1122	82.913	66.154	64.963	0.00	0.00
ATOM 16882	1HG1	VAL	1122	83.200	67.190	64.780	0.00	0.00
ATOM 16883	2HG1	VAL	1122	81.860	65.948	64.775	0.00	0.00
ATOM 16884	3HG1	VAL	1122	83.061	65.952	66.024	0.00	0.00
ATOM 16885	CG2	VAL	1122	83.412	63.813	64.650	0.00	0.00
ATOM 16886	1HG2	VAL	1122	83.509	63.862	65.734	0.00	0.00
ATOM 16887	2HG2	VAL	1122	82.372	63.532	64.488	0.00	0.00
ATOM 16888	3HG2	VAL	1122	84.122	63.108	64.216	0.00	0.00
ATOM 16889	C	VAL	1122	84.546	64.464	61.898	0.00	0.00
ATOM 16890	O	VAL	1122	85.683	64.860	61.672	0.00	0.00
ATOM 16891	N	SER	1123	84.114	63.287	61.536	0.00	0.00
ATOM 16892	H	SER	1123	83.178	63.033	61.817	0.00	0.00
ATOM 16893	CA	SER	1123	84.825	62.166	60.852	0.00	0.00
ATOM 16894	HA	SER	1123	85.847	62.277	61.212	0.00	0.00
ATOM 16895	CB	SER	1123	84.237	60.800	61.362	0.00	0.00
ATOM 16896	HB2	SER	1123	83.368	60.587	60.739	0.00	0.00

ATOM 16897	HB3	SER	1123	85.013	60.036	61.408	0.00	0.00
ATOM 16898	OG	SER	1123	83.787	60.879	62.739	0.00	0.00
ATOM 16899	HG	SER	1123	82.829	60.828	62.767	0.00	0.00
ATOM 16900	C	SER	1123	85.000	62.314	59.327	0.00	0.00
ATOM 16901	O	SER	1123	85.717	61.452	58.809	0.00	0.00
ATOM 16902	N	GLY	1124	84.447	63.408	58.644	0.00	0.00
ATOM 16903	H	GLY	1124	83.961	64.162	59.108	0.00	0.00
ATOM 16904	CA	GLY	1124	84.685	63.584	57.200	0.00	0.00
ATOM 16905	HA2	GLY	1124	84.539	64.634	56.946	0.00	0.00
ATOM 16906	HA3	GLY	1124	85.657	63.247	56.840	0.00	0.00
ATOM 16907	C	GLY	1124	83.697	62.920	56.227	0.00	0.00
ATOM 16908	O	GLY	1124	83.936	62.995	55.004	0.00	0.00
ATOM 16909	N	VAL	1125	82.562	62.349	56.692	0.00	0.00
ATOM 16910	H	VAL	1125	82.411	62.164	57.674	0.00	0.00
ATOM 16911	CA	VAL	1125	81.392	62.157	55.842	0.00	0.00
ATOM 16912	HA	VAL	1125	81.665	62.022	54.795	0.00	0.00
ATOM 16913	CB	VAL	1125	80.470	60.965	56.451	0.00	0.00
ATOM 16914	HB	VAL	1125	79.963	61.353	57.335	0.00	0.00
ATOM 16915	CG1	VAL	1125	79.305	60.601	55.523	0.00	0.00
ATOM 16916	1HG1	VAL	1125	78.909	59.629	55.819	0.00	0.00
ATOM 16917	2HG1	VAL	1125	78.532	61.357	55.658	0.00	0.00
ATOM 16918	3HG1	VAL	1125	79.699	60.577	54.508	0.00	0.00
ATOM 16919	CG2	VAL	1125	81.299	59.732	56.823	0.00	0.00
ATOM 16920	1HG2	VAL	1125	81.853	59.405	55.944	0.00	0.00
ATOM 16921	2HG2	VAL	1125	82.020	59.862	57.631	0.00	0.00
ATOM 16922	3HG2	VAL	1125	80.610	58.989	57.225	0.00	0.00

ATOM 16923	C	VAL	1125	80.410	63.399	55.747	0.00	0.00
ATOM 16924	O	VAL	1125	79.871	63.788	56.780	0.00	0.00
ATOM 16925	N	THR	1126	80.185	63.959	54.552	0.00	0.00
ATOM 16926	H	THR	1126	80.623	63.573	53.727	0.00	0.00
ATOM 16927	CA	THR	1126	79.380	65.243	54.424	0.00	0.00
ATOM 16928	HA	THR	1126	79.046	65.765	55.321	0.00	0.00
ATOM 16929	CB	THR	1126	80.249	66.332	53.598	0.00	0.00
ATOM 16930	HB	THR	1126	79.623	67.204	53.404	0.00	0.00
ATOM 16931	CG2	THR	1126	81.545	66.900	54.193	0.00	0.00
ATOM 16932	1HG2	THR	1126	81.428	67.274	55.210	0.00	0.00
ATOM 16933	2HG2	THR	1126	82.284	66.100	54.235	0.00	0.00
ATOM 16934	3HG2	THR	1126	81.913	67.766	53.644	0.00	0.00
ATOM 16935	OG1	THR	1126	80.600	65.811	52.326	0.00	0.00
ATOM 16936	HG1	THR	1126	80.740	66.564	51.746	0.00	0.00
ATOM 16937	C	THR	1126	78.070	65.154	53.724	0.00	0.00
ATOM 16938	O	THR	1126	77.206	66.061	53.918	0.00	0.00
ATOM 16939	N	THR	1127	77.848	64.030	53.013	0.00	0.00
ATOM 16940	H	THR	1127	78.551	63.310	52.929	0.00	0.00
ATOM 16941	CA	THR	1127	76.601	63.734	52.292	0.00	0.00
ATOM 16942	HA	THR	1127	75.823	64.485	52.425	0.00	0.00
ATOM 16943	CB	THR	1127	76.724	63.641	50.786	0.00	0.00
ATOM 16944	HB	THR	1127	77.431	62.873	50.473	0.00	0.00
ATOM 16945	CG2	THR	1127	75.498	63.384	49.926	0.00	0.00
ATOM 16946	1HG2	THR	1127	74.661	63.958	50.324	0.00	0.00
ATOM 16947	2HG2	THR	1127	75.726	63.710	48.911	0.00	0.00
ATOM 16948	3HG2	THR	1127	75.223	62.330	49.896	0.00	0.00

ATOM 16949	OG1 THR 1127	77.306	64.855	50.302	0.00	0.00
ATOM 16950	HG1 THR 1127	78.169	64.953	50.711	0.00	0.00
ATOM 16951	C THR 1127	76.154	62.425	52.871	0.00	0.00
ATOM 16952	O THR 1127	76.950	61.555	53.197	0.00	0.00
ATOM 16953	N MET 1128	74.848	62.256	52.924	0.00	0.00
ATOM 16954	H MET 1128	74.236	62.980	52.575	0.00	0.00
ATOM 16955	CA MET 1128	74.175	61.134	53.463	0.00	0.00
ATOM 16956	HA MET 1128	74.828	60.261	53.464	0.00	0.00
ATOM 16957	CB MET 1128	73.719	61.386	54.887	0.00	0.00
ATOM 16958	HB2 MET 1128	73.041	62.239	54.934	0.00	0.00
ATOM 16959	HB3 MET 1128	73.117	60.579	55.304	0.00	0.00
ATOM 16960	CG MET 1128	74.830	61.608	55.826	0.00	0.00
ATOM 16961	HG2 MET 1128	75.498	60.795	55.541	0.00	0.00
ATOM 16962	HG3 MET 1128	75.297	62.546	55.526	0.00	0.00
ATOM 16963	SD MET 1128	74.589	61.603	57.569	0.00	0.00
ATOM 16964	CE MET 1128	76.296	61.580	58.180	0.00	0.00
ATOM 16965	HE1 MET 1128	76.877	60.728	57.828	0.00	0.00
ATOM 16966	HE2 MET 1128	76.833	62.463	57.832	0.00	0.00
ATOM 16967	HE3 MET 1128	76.199	61.573	59.266	0.00	0.00
ATOM 16968	C MET 1128	72.974	60.716	52.543	0.00	0.00
ATOM 16969	O MET 1128	72.273	61.624	52.090	0.00	0.00
ATOM 16970	N VAL 1129	72.865	59.396	52.366	0.00	0.00
ATOM 16971	H VAL 1129	73.595	58.740	52.603	0.00	0.00
ATOM 16972	CA VAL 1129	71.602	58.845	51.838	0.00	0.00
ATOM 16973	HA VAL 1129	70.921	59.696	51.846	0.00	0.00
ATOM 16974	CB VAL 1129	71.610	58.280	50.421	0.00	0.00



ATOM 16975	HB	VAL	1129	72.187	57.361	50.523	0.00	0.00
ATOM 16976	CG1	VAL	1129	70.177	57.939	49.879	0.00	0.00
ATOM 16977	1HG1	VAL	1129	69.520	58.778	50.108	0.00	0.00
ATOM 16978	2HG1	VAL	1129	70.134	57.705	48.815	0.00	0.00
ATOM 16979	3HG1	VAL	1129	69.737	57.053	50.335	0.00	0.00
ATOM 16980	CG2	VAL	1129	72.253	59.176	49.398	0.00	0.00
ATOM 16981	1HG2	VAL	1129	73.238	59.453	49.772	0.00	0.00
ATOM 16982	2HG2	VAL	1129	72.384	58.656	48.449	0.00	0.00
ATOM 16983	3HG2	VAL	1129	71.673	60.090	49.274	0.00	0.00
ATOM 16984	C	VAL	1129	71.180	57.871	52.880	0.00	0.00
ATOM 16985	O	VAL	1129	72.013	57.087	53.343	0.00	0.00
ATOM 16986	N	GLY	1130	69.900	57.930	53.326	0.00	0.00
ATOM 16987	H	GLY	1130	69.336	58.689	52.969	0.00	0.00
ATOM 16988	CA	GLY	1130	69.412	57.247	54.578	0.00	0.00
ATOM 16989	HA2	GLY	1130	69.783	56.223	54.589	0.00	0.00
ATOM 16990	HA3	GLY	1130	69.916	57.723	55.419	0.00	0.00
ATOM 16991	C	GLY	1130	67.924	57.284	54.668	0.00	0.00
ATOM 16992	O	GLY	1130	67.306	58.092	53.988	0.00	0.00
ATOM 16993	N	GLY	1131	67.333	56.396	55.540	0.00	0.00
ATOM 16994	H	GLY	1131	68.022	55.872	56.059	0.00	0.00
ATOM 16995	CA	GLY	1131	65.937	56.377	55.963	0.00	0.00
ATOM 16996	HA2	GLY	1131	65.435	55.596	55.392	0.00	0.00
ATOM 16997	HA3	GLY	1131	65.341	57.198	55.564	0.00	0.00
ATOM 16998	C	GLY	1131	65.646	56.030	57.391	0.00	0.00
ATOM 16999	O	GLY	1131	66.347	55.202	57.928	0.00	0.00
ATOM 17000	N	GLY	1132	64.691	56.678	58.028	0.00	0.00

ATOM 17001	H	GLY 1132	64.254	57.463	57.568	0.00	0.00
ATOM 17002	CA	GLY 1132	64.055	56.411	59.334	0.00	0.00
ATOM 17003	HA2	GLY 1132	63.228	55.742	59.095	0.00	0.00
ATOM 17004	HA3	GLY 1132	64.792	55.917	59.966	0.00	0.00
ATOM 17005	C	GLY 1132	63.367	57.643	59.920	0.00	0.00
ATOM 17006	O	GLY 1132	63.040	58.586	59.230	0.00	0.00
ATOM 17007	N	THR 1133	62.962	57.579	61.225	0.00	0.00
ATOM 17008	H	THR 1133	63.099	56.698	61.701	0.00	0.00
ATOM 17009	CA	THR 1133	61.939	58.423	61.864	0.00	0.00
ATOM 17010	HA	THR 1133	61.671	59.277	61.241	0.00	0.00
ATOM 17011	CB	THR 1133	60.640	57.630	61.957	0.00	0.00
ATOM 17012	HB	THR 1133	59.893	58.333	62.326	0.00	0.00
ATOM 17013	CG2	THR 1133	60.134	57.188	60.524	0.00	0.00
ATOM 17014	1HG2	THR 1133	60.589	56.274	60.144	0.00	0.00
ATOM 17015	2HG2	THR 1133	59.073	56.946	60.586	0.00	0.00
ATOM 17016	3HG2	THR 1133	60.194	57.983	59.781	0.00	0.00
ATOM 17017	OG1	THR 1133	60.711	56.567	62.835	0.00	0.00
ATOM 17018	HG1	THR 1133	60.454	55.762	62.380	0.00	0.00
ATOM 17019	C	THR 1133	62.413	58.879	63.187	0.00	0.00
ATOM 17020	O	THR 1133	62.010	59.910	63.692	0.00	0.00
ATOM 17021	N	GLY 1134	63.293	58.086	63.801	0.00	0.00
ATOM 17022	H	GLY 1134	63.542	57.195	63.397	0.00	0.00
ATOM 17023	CA	GLY 1134	63.788	58.309	65.111	0.00	0.00
ATOM 17024	HA2	GLY 1134	64.778	58.733	64.947	0.00	0.00
ATOM 17025	HA3	GLY 1134	63.233	59.012	65.732	0.00	0.00
ATOM 17026	C	GLY 1134	63.895	56.865	65.861	0.00	0.00

ATOM 17027	O	GLY	1134	64.142	55.865	65.181	0.00	0.00
ATOM 17028	N	PRO	1135	63.660	56.849	67.151	0.00	0.00
ATOM 17029	CD	PRO	1135	63.604	57.971	68.120	0.00	0.00
ATOM 17030	HD2	PRO	1135	64.418	58.654	67.878	0.00	0.00
ATOM 17031	HD3	PRO	1135	62.636	58.469	68.047	0.00	0.00
ATOM 17032	CG	PRO	1135	63.686	57.247	69.492	0.00	0.00
ATOM 17033	HG2	PRO	1135	64.436	57.734	70.115	0.00	0.00
ATOM 17034	HG3	PRO	1135	62.716	57.253	69.990	0.00	0.00
ATOM 17035	CB	PRO	1135	64.236	55.831	69.227	0.00	0.00
ATOM 17036	HB2	PRO	1135	65.318	55.961	69.204	0.00	0.00
ATOM 17037	HB3	PRO	1135	63.859	55.145	69.987	0.00	0.00
ATOM 17038	CA	PRO	1135	63.799	55.512	67.839	0.00	0.00
ATOM 17039	HA	PRO	1135	64.614	54.956	67.376	0.00	0.00
ATOM 17040	C	PRO	1135	62.464	54.732	67.788	0.00	0.00
ATOM 17041	O	PRO	1135	61.866	54.438	68.845	0.00	0.00
ATOM 17042	N	ALA	1136	61.944	54.445	66.613	0.00	0.00
ATOM 17043	H	ALA	1136	62.528	54.730	65.840	0.00	0.00
ATOM 17044	CA	ALA	1136	60.751	53.600	66.343	0.00	0.00
ATOM 17045	HA	ALA	1136	60.334	53.349	67.318	0.00	0.00
ATOM 17046	CB	ALA	1136	59.764	54.371	65.520	0.00	0.00
ATOM 17047	HB1	ALA	1136	59.473	55.259	66.082	0.00	0.00
ATOM 17048	HB2	ALA	1136	60.223	54.741	64.602	0.00	0.00
ATOM 17049	HB3	ALA	1136	58.800	53.890	65.357	0.00	0.00
ATOM 17050	C	ALA	1136	61.076	52.315	65.597	0.00	0.00
ATOM 17051	O	ALA	1136	62.064	52.334	64.866	0.00	0.00
ATOM 17052	N	ALA	1137	60.268	51.300	65.746	0.00	0.00

ATOM	17053	H	ALA	1137	59.321	51.564	65.977	0.00	0.00
ATOM	17054	CA	ALA	1137	60.589	49.894	65.551	0.00	0.00
ATOM	17055	HA	ALA	1137	61.420	49.571	66.178	0.00	0.00
ATOM	17056	CB	ALA	1137	59.331	49.035	65.814	0.00	0.00
ATOM	17057	HB1	ALA	1137	59.702	48.027	66.002	0.00	0.00
ATOM	17058	HB2	ALA	1137	58.827	49.362	66.724	0.00	0.00
ATOM	17059	HB3	ALA	1137	58.616	49.008	64.992	0.00	0.00
ATOM	17060	C	ALA	1137	60.962	49.418	64.074	0.00	0.00
ATOM	17061	O	ALA	1137	61.875	48.614	63.885	0.00	0.00
ATOM	17062	N	GLY	1138	60.291	50.000	63.079	0.00	0.00
ATOM	17063	H	GLY	1138	59.602	50.694	63.333	0.00	0.00
ATOM	17064	CA	GLY	1138	60.419	49.749	61.670	0.00	0.00
ATOM	17065	HA2	GLY	1138	60.306	48.704	61.379	0.00	0.00
ATOM	17066	HA3	GLY	1138	59.711	50.351	61.100	0.00	0.00
ATOM	17067	C	GLY	1138	61.721	50.309	61.150	0.00	0.00
ATOM	17068	O	GLY	1138	62.521	49.683	60.400	0.00	0.00
ATOM	17069	N	THR	1139	61.953	51.521	61.571	0.00	0.00
ATOM	17070	H	THR	1139	61.228	51.874	62.180	0.00	0.00
ATOM	17071	CA	THR	1139	63.153	52.345	61.264	0.00	0.00
ATOM	17072	HA	THR	1139	63.301	52.487	60.193	0.00	0.00
ATOM	17073	CB	THR	1139	62.906	53.799	61.823	0.00	0.00
ATOM	17074	HB	THR	1139	62.224	53.850	62.672	0.00	0.00
ATOM	17075	CG2	THR	1139	64.253	54.381	62.335	0.00	0.00
ATOM	17076	1HG2	THR	1139	65.018	54.219	61.576	0.00	0.00
ATOM	17077	2HG2	THR	1139	64.138	55.445	62.537	0.00	0.00
ATOM	17078	3HG2	THR	1139	64.430	53.915	63.304	0.00	0.00

ATOM	17079	OG1	THR	1139	62.231	54.665	60.951	0.00	0.00
ATOM	17080	HG1	THR	1139	61.298	54.444	60.987	0.00	0.00
ATOM	17081	C	THR	1139	64.379	51.690	61.900	0.00	0.00
ATOM	17082	O	THR	1139	65.505	51.680	61.391	0.00	0.00
ATOM	17083	N	HIE	1140	64.182	51.125	63.102	0.00	0.00
ATOM	17084	H	HIE	1140	63.226	50.997	63.403	0.00	0.00
ATOM	17085	CA	HIE	1140	65.184	50.420	63.854	0.00	0.00
ATOM	17086	HA	HIE	1140	66.050	51.072	63.963	0.00	0.00
ATOM	17087	CB	HIE	1140	64.576	50.142	65.274	0.00	0.00
ATOM	17088	HB2	HIE	1140	63.503	49.967	65.199	0.00	0.00
ATOM	17089	HB3	HIE	1140	64.965	49.208	65.679	0.00	0.00
ATOM	17090	CG	HIE	1140	64.779	51.139	66.436	0.00	0.00
ATOM	17091	ND1	HIE	1140	63.973	51.280	67.623	0.00	0.00
ATOM	17092	CE1	HIE	1140	64.495	52.260	68.315	0.00	0.00
ATOM	17093	HE1	HIE	1140	64.106	52.571	69.273	0.00	0.00
ATOM	17094	NE2	HIE	1140	65.599	52.728	67.740	0.00	0.00
ATOM	17095	HE2	HIE	1140	66.213	53.411	68.161	0.00	0.00
ATOM	17096	CD2	HIE	1140	65.727	52.100	66.497	0.00	0.00
ATOM	17097	HD2	HIE	1140	66.588	52.073	65.846	0.00	0.00
ATOM	17098	C	HIE	1140	65.781	49.180	63.186	0.00	0.00
ATOM	17099	O	HIE	1140	66.944	48.914	63.311	0.00	0.00
ATOM	17100	N	ALA	1141	64.913	48.441	62.473	0.00	0.00
ATOM	17101	H	ALA	1141	63.922	48.542	62.635	0.00	0.00
ATOM	17102	CA	ALA	1141	65.412	47.298	61.690	0.00	0.00
ATOM	17103	HA	ALA	1141	66.313	46.848	62.107	0.00	0.00
ATOM	17104	CB	ALA	1141	64.342	46.157	61.661	0.00	0.00

ATOM	17105	HB1	ALA	1141	64.187	46.023	62.732	0.00	0.00
ATOM	17106	HB2	ALA	1141	63.471	46.548	61.136	0.00	0.00
ATOM	17107	HB3	ALA	1141	64.742	45.275	61.160	0.00	0.00
ATOM	17108	C	ALA	1141	65.843	47.676	60.267	0.00	0.00
ATOM	17109	O	ALA	1141	66.690	46.946	59.755	0.00	0.00
ATOM	17110	N	THR	1142	65.203	48.726	59.718	0.00	0.00
ATOM	17111	H	THR	1142	64.619	49.321	60.288	0.00	0.00
ATOM	17112	CA	THR	1142	65.300	49.231	58.306	0.00	0.00
ATOM	17113	HA	THR	1142	66.096	48.634	57.860	0.00	0.00
ATOM	17114	CB	THR	1142	64.043	48.787	57.474	0.00	0.00
ATOM	17115	HB	THR	1142	64.333	48.798	56.424	0.00	0.00
ATOM	17116	CG2	THR	1142	63.490	47.406	57.907	0.00	0.00
ATOM	17117	1HG2	THR	1142	62.704	47.478	58.660	0.00	0.00
ATOM	17118	2HG2	THR	1142	62.971	46.991	57.043	0.00	0.00
ATOM	17119	3HG2	THR	1142	64.278	46.734	58.248	0.00	0.00
ATOM	17120	OG1	THR	1142	62.977	49.733	57.647	0.00	0.00
ATOM	17121	HG1	THR	1142	62.954	49.895	58.593	0.00	0.00
ATOM	17122	C	THR	1142	65.560	50.669	57.961	0.00	0.00
ATOM	17123	O	THR	1142	65.219	51.543	58.694	0.00	0.00
ATOM	17124	N	THR	1143	66.193	50.887	56.799	0.00	0.00
ATOM	17125	H	THR	1143	66.340	50.068	56.226	0.00	0.00
ATOM	17126	CA	THR	1143	66.612	52.182	56.285	0.00	0.00
ATOM	17127	HA	THR	1143	66.568	52.887	57.115	0.00	0.00
ATOM	17128	CB	THR	1143	67.996	52.140	55.548	0.00	0.00
ATOM	17129	HB	THR	1143	67.802	52.023	54.481	0.00	0.00
ATOM	17130	CG2	THR	1143	68.894	53.335	55.884	0.00	0.00

ATOM	17131	1HG2	THR	1143	69.943	53.069	55.750	0.00	0.00
ATOM	17132	2HG2	THR	1143	68.773	54.116	55.133	0.00	0.00
ATOM	17133	3HG2	THR	1143	68.574	53.799	56.817	0.00	0.00
ATOM	17134	OG1	THR	1143	68.560	50.964	55.822	0.00	0.00
ATOM	17135	HG1	THR	1143	69.409	51.169	56.221	0.00	0.00
ATOM	17136	C	THR	1143	65.552	52.778	55.351	0.00	0.00
ATOM	17137	O	THR	1143	65.846	53.306	54.291	0.00	0.00
ATOM	17138	N	CYS	1144	64.327	52.701	55.772	0.00	0.00
ATOM	17139	H	CYS	1144	64.199	52.436	56.738	0.00	0.00
ATOM	17140	CA	CYS	1144	63.215	52.931	54.953	0.00	0.00
ATOM	17141	HA	CYS	1144	63.575	53.211	53.963	0.00	0.00
ATOM	17142	CB	CYS	1144	62.467	51.614	54.685	0.00	0.00
ATOM	17143	HB2	CYS	1144	62.365	51.046	55.609	0.00	0.00
ATOM	17144	HB3	CYS	1144	61.502	51.914	54.278	0.00	0.00
ATOM	17145	SG	CYS	1144	63.468	50.499	53.657	0.00	0.00
ATOM	17146	HG	CYS	1144	63.676	51.236	52.562	0.00	0.00
ATOM	17147	C	CYS	1144	62.329	53.949	55.683	0.00	0.00
ATOM	17148	O	CYS	1144	61.605	53.565	56.614	0.00	0.00
ATOM	17149	N	THR	1145	62.269	55.203	55.232	0.00	0.00
ATOM	17150	H	THR	1145	62.841	55.484	54.449	0.00	0.00
ATOM	17151	CA	THR	1145	61.254	56.187	55.763	0.00	0.00
ATOM	17152	HA	THR	1145	61.431	56.177	56.839	0.00	0.00
ATOM	17153	CB	THR	1145	61.689	57.642	55.389	0.00	0.00
ATOM	17154	HB	THR	1145	61.332	57.933	54.401	0.00	0.00
ATOM	17155	CG2	THR	1145	61.135	58.706	56.326	0.00	0.00
ATOM	17156	1HG2	THR	1145	60.047	58.689	56.257	0.00	0.00

ATOM	17157	2HG2	THR	1145	61.600	58.666	57.311	0.00	0.00
ATOM	17158	3HG2	THR	1145	61.373	59.673	55.882	0.00	0.00
ATOM	17159	OG1	THR	1145	63.098	57.912	55.404	0.00	0.00
ATOM	17160	HG1	THR	1145	63.482	57.483	54.636	0.00	0.00
ATOM	17161	C	THR	1145	59.791	55.840	55.384	0.00	0.00
ATOM	17162	O	THR	1145	59.544	55.700	54.141	0.00	0.00
ATOM	17163	N	PRO	1146	58.827	55.603	56.285	0.00	0.00
ATOM	17164	CD	PRO	1146	58.937	55.401	57.710	0.00	0.00
ATOM	17165	HD2	PRO	1146	58.542	56.246	58.274	0.00	0.00
ATOM	17166	HD3	PRO	1146	59.932	55.272	58.137	0.00	0.00
ATOM	17167	CG	PRO	1146	58.145	54.201	57.944	0.00	0.00
ATOM	17168	HG2	PRO	1146	58.616	53.327	57.495	0.00	0.00
ATOM	17169	HG3	PRO	1146	58.013	54.063	59.017	0.00	0.00
ATOM	17170	CB	PRO	1146	56.856	54.560	57.194	0.00	0.00
ATOM	17171	HB2	PRO	1146	56.291	53.667	56.927	0.00	0.00
ATOM	17172	HB3	PRO	1146	56.279	55.273	57.782	0.00	0.00
ATOM	17173	CA	PRO	1146	57.491	55.226	55.944	0.00	0.00
ATOM	17174	HA	PRO	1146	57.670	54.426	55.226	0.00	0.00
ATOM	17175	C	PRO	1146	56.668	56.322	55.367	0.00	0.00
ATOM	17176	O	PRO	1146	56.355	57.284	56.005	0.00	0.00
ATOM	17177	N	GLY	1147	56.234	56.247	54.087	0.00	0.00
ATOM	17178	H	GLY	1147	56.365	55.386	53.575	0.00	0.00
ATOM	17179	CA	GLY	1147	55.014	56.987	53.724	0.00	0.00
ATOM	17180	HA2	GLY	1147	54.461	56.494	52.924	0.00	0.00
ATOM	17181	HA3	GLY	1147	54.352	56.997	54.590	0.00	0.00
ATOM	17182	C	GLY	1147	55.136	58.500	53.530	0.00	0.00



ATOM 17183	O	GLY 1147	56.088	59.097	54.057	0.00	0.00
ATOM 17184	N	PRO 1148	54.265	59.094	52.790	0.00	0.00
ATOM 17185	CD	PRO 1148	53.287	58.526	51.910	0.00	0.00
ATOM 17186	HD2	PRO 1148	53.636	57.696	51.296	0.00	0.00
ATOM 17187	HD3	PRO 1148	52.356	58.319	52.439	0.00	0.00
ATOM 17188	CG	PRO 1148	52.965	59.580	50.872	0.00	0.00
ATOM 17189	HG2	PRO 1148	53.739	59.571	50.105	0.00	0.00
ATOM 17190	HG3	PRO 1148	51.951	59.419	50.505	0.00	0.00
ATOM 17191	CB	PRO 1148	53.048	60.859	51.705	0.00	0.00
ATOM 17192	HB2	PRO 1148	53.172	61.722	51.050	0.00	0.00
ATOM 17193	HB3	PRO 1148	52.172	61.091	52.311	0.00	0.00
ATOM 17194	CA	PRO 1148	54.309	60.531	52.571	0.00	0.00
ATOM 17195	HA	PRO 1148	55.171	60.551	51.904	0.00	0.00
ATOM 17196	C	PRO 1148	54.404	61.501	53.681	0.00	0.00
ATOM 17197	O	PRO 1148	55.202	62.426	53.600	0.00	0.00
ATOM 17198	N	TRP 1149	53.709	61.289	54.827	0.00	0.00
ATOM 17199	H	TRP 1149	53.089	60.494	54.873	0.00	0.00
ATOM 17200	CA	TRP 1149	53.710	62.179	56.017	0.00	0.00
ATOM 17201	HA	TRP 1149	53.489	63.202	55.713	0.00	0.00
ATOM 17202	CB	TRP 1149	52.579	61.769	57.043	0.00	0.00
ATOM 17203	HB2	TRP 1149	51.630	61.680	56.513	0.00	0.00
ATOM 17204	HB3	TRP 1149	52.822	60.781	57.434	0.00	0.00
ATOM 17205	CG	TRP 1149	52.461	62.738	58.213	0.00	0.00
ATOM 17206	CD1	TRP 1149	51.684	63.840	58.216	0.00	0.00
ATOM 17207	HD1	TRP 1149	51.151	64.206	57.351	0.00	0.00
ATOM 17208	NE1	TRP 1149	51.775	64.516	59.429	0.00	0.00

ATOM	17209	HE1	TRP	1149	51.302	65.370	59.686	0.00	0.00
ATOM	17210	CE2	TRP	1149	52.570	63.798	60.278	0.00	0.00
ATOM	17211	CZ2	TRP	1149	52.993	64.017	61.561	0.00	0.00
ATOM	17212	HZ2	TRP	1149	52.683	64.930	62.048	0.00	0.00
ATOM	17213	CH2	TRP	1149	53.942	63.189	62.169	0.00	0.00
ATOM	17214	HH2	TRP	1149	54.306	63.552	63.118	0.00	0.00
ATOM	17215	CZ3	TRP	1149	54.323	61.987	61.483	0.00	0.00
ATOM	17216	HZ3	TRP	1149	54.896	61.215	61.973	0.00	0.00
ATOM	17217	CE3	TRP	1149	53.820	61.716	60.190	0.00	0.00
ATOM	17218	HE3	TRP	1149	54.153	60.790	59.745	0.00	0.00
ATOM	17219	CD2	TRP	1149	52.943	62.655	59.561	0.00	0.00
ATOM	17220	C	TRP	1149	55.002	62.195	56.771	0.00	0.00
ATOM	17221	O	TRP	1149	55.477	63.242	57.201	0.00	0.00
ATOM	17222	N	TYR	1150	55.586	61.019	56.990	0.00	0.00
ATOM	17223	H	TYR	1150	55.107	60.222	56.596	0.00	0.00
ATOM	17224	CA	TYR	1150	56.876	60.895	57.617	0.00	0.00
ATOM	17225	HA	TYR	1150	56.916	61.728	58.320	0.00	0.00
ATOM	17226	CB	TYR	1150	57.123	59.480	58.222	0.00	0.00
ATOM	17227	HB2	TYR	1150	56.387	58.688	58.087	0.00	0.00
ATOM	17228	HB3	TYR	1150	58.086	59.107	57.873	0.00	0.00
ATOM	17229	CG	TYR	1150	57.277	59.550	59.718	0.00	0.00
ATOM	17230	CD1	TYR	1150	56.354	58.956	60.532	0.00	0.00
ATOM	17231	HD1	TYR	1150	55.504	58.528	60.021	0.00	0.00
ATOM	17232	CE1	TYR	1150	56.565	58.958	61.940	0.00	0.00
ATOM	17233	HE1	TYR	1150	55.884	58.392	62.558	0.00	0.00
ATOM	17234	CZ	TYR	1150	57.686	59.603	62.422	0.00	0.00

ATOM	17235	OH	TYR	1150	57.993	59.346	63.742	0.00	0.00
ATOM	17236	HH	TYR	1150	57.448	58.671	64.153	0.00	0.00
ATOM	17237	CE2	TYR	1150	58.540	60.362	61.598	0.00	0.00
ATOM	17238	HE2	TYR	1150	59.309	60.943	62.085	0.00	0.00
ATOM	17239	CD2	TYR	1150	58.406	60.227	60.206	0.00	0.00
ATOM	17240	HD2	TYR	1150	59.104	60.767	59.584	0.00	0.00
ATOM	17241	C	TYR	1150	58.099	61.125	56.713	0.00	0.00
ATOM	17242	O	TYR	1150	59.124	61.528	57.174	0.00	0.00
ATOM	17243	N	ILE	1151	57.947	61.073	55.390	0.00	0.00
ATOM	17244	H	ILE	1151	57.089	60.694	55.014	0.00	0.00
ATOM	17245	CA	ILE	1151	58.847	61.613	54.394	0.00	0.00
ATOM	17246	HA	ILE	1151	59.837	61.328	54.751	0.00	0.00
ATOM	17247	CB	ILE	1151	58.600	60.943	52.999	0.00	0.00
ATOM	17248	HB	ILE	1151	57.526	60.981	52.814	0.00	0.00
ATOM	17249	CG2	ILE	1151	59.439	61.707	51.948	0.00	0.00
ATOM	17250	1HG2	ILE	1151	60.493	61.527	52.157	0.00	0.00
ATOM	17251	2HG2	ILE	1151	59.102	61.399	50.958	0.00	0.00
ATOM	17252	3HG2	ILE	1151	59.287	62.786	51.950	0.00	0.00
ATOM	17253	CG1	ILE	1151	59.017	59.499	53.098	0.00	0.00
ATOM	17254	2HG1	ILE	1151	60.103	59.411	53.142	0.00	0.00
ATOM	17255	3HG1	ILE	1151	58.755	59.016	54.040	0.00	0.00
ATOM	17256	CD1	ILE	1151	58.489	58.783	51.868	0.00	0.00
ATOM	17257	1HD1	ILE	1151	57.403	58.858	51.806	0.00	0.00
ATOM	17258	2HD1	ILE	1151	58.895	59.211	50.952	0.00	0.00
ATOM	17259	3HD1	ILE	1151	58.796	57.742	51.970	0.00	0.00
ATOM	17260	C	ILE	1151	58.882	63.119	54.430	0.00	0.00

ATOM 17261	O	ILE	1151	59.974	63.745	54.460	0.00	0.00
ATOM 17262	N	SER	1152	57.662	63.712	54.451	0.00	0.00
ATOM 17263	H	SER	1152	56.876	63.089	54.336	0.00	0.00
ATOM 17264	CA	SER	1152	57.424	65.155	54.662	0.00	0.00
ATOM 17265	HA	SER	1152	57.812	65.758	53.842	0.00	0.00
ATOM 17266	CB	SER	1152	55.958	65.445	54.506	0.00	0.00
ATOM 17267	HB2	SER	1152	55.369	64.855	55.208	0.00	0.00
ATOM 17268	HB3	SER	1152	55.792	66.522	54.499	0.00	0.00
ATOM 17269	OG	SER	1152	55.655	65.025	53.243	0.00	0.00
ATOM 17270	HG	SER	1152	55.353	64.114	53.235	0.00	0.00
ATOM 17271	C	SER	1152	57.885	65.652	55.996	0.00	0.00
ATOM 17272	O	SER	1152	58.348	66.817	56.156	0.00	0.00
ATOM 17273	N	ARG	1153	57.781	64.843	57.097	0.00	0.00
ATOM 17274	H	ARG	1153	57.257	63.980	57.070	0.00	0.00
ATOM 17275	CA	ARG	1153	58.516	65.281	58.350	0.00	0.00
ATOM 17276	HA	ARG	1153	58.400	66.332	58.615	0.00	0.00
ATOM 17277	CB	ARG	1153	58.009	64.481	59.583	0.00	0.00
ATOM 17278	HB2	ARG	1153	58.884	64.241	60.187	0.00	0.00
ATOM 17279	HB3	ARG	1153	57.590	63.507	59.332	0.00	0.00
ATOM 17280	CG	ARG	1153	56.998	65.250	60.505	0.00	0.00
ATOM 17281	HG2	ARG	1153	56.690	64.675	61.378	0.00	0.00
ATOM 17282	HG3	ARG	1153	57.462	66.172	60.857	0.00	0.00
ATOM 17283	CD	ARG	1153	55.626	65.519	59.768	0.00	0.00
ATOM 17284	HD2	ARG	1153	55.166	64.609	59.382	0.00	0.00
ATOM 17285	HD3	ARG	1153	54.921	65.831	60.539	0.00	0.00
ATOM 17286	NE	ARG	1153	55.757	66.586	58.723	0.00	0.00

ATOM 17287 HE ARG 1153 56.580 67.170 58.757 0.00 0.00  
ATOM 17288 CZ ARG 1153 54.874 66.867 57.833 0.00 0.00  
ATOM 17289 NH1 ARG 1153 55.187 67.741 56.992 0.00 0.00  
ATOM 17290 1HH1 ARG 1153 54.448 68.255 56.535 0.00 0.00  
ATOM 17291 2HH1 ARG 1153 56.047 68.221 57.217 0.00 0.00  
ATOM 17292 NH2 ARG 1153 53.723 66.200 57.666 0.00 0.00  
ATOM 17293 1HH2 ARG 1153 53.191 66.419 56.836 0.00 0.00  
ATOM 17294 2HH2 ARG 1153 53.479 65.528 58.380 0.00 0.00  
ATOM 17295 C ARG 1153 60.041 65.136 58.129 0.00 0.00  
ATOM 17296 O ARG 1153 60.775 66.025 58.569 0.00 0.00  
ATOM 17297 N MET 1154 60.603 64.063 57.616 0.00 0.00  
ATOM 17298 H MET 1154 59.987 63.324 57.310 0.00 0.00  
ATOM 17299 CA MET 1154 62.090 63.955 57.508 0.00 0.00  
ATOM 17300 HA MET 1154 62.503 64.204 58.486 0.00 0.00  
ATOM 17301 CB MET 1154 62.614 62.553 57.099 0.00 0.00  
ATOM 17302 HB2 MET 1154 62.054 62.205 56.231 0.00 0.00  
ATOM 17303 HB3 MET 1154 63.663 62.589 56.804 0.00 0.00  
ATOM 17304 CG MET 1154 62.453 61.608 58.294 0.00 0.00  
ATOM 17305 HG2 MET 1154 61.372 61.548 58.419 0.00 0.00  
ATOM 17306 HG3 MET 1154 62.809 60.606 58.056 0.00 0.00  
ATOM 17307 SD MET 1154 63.095 62.050 59.866 0.00 0.00  
ATOM 17308 CE MET 1154 64.810 61.625 59.756 0.00 0.00  
ATOM 17309 HE1 MET 1154 65.460 62.499 59.818 0.00 0.00  
ATOM 17310 HE2 MET 1154 64.947 61.119 60.712 0.00 0.00  
ATOM 17311 HE3 MET 1154 64.975 60.979 58.894 0.00 0.00  
ATOM 17312 C MET 1154 62.833 64.924 56.597 0.00 0.00

ATOM 17313	O	MET	1154	63.987	65.276	56.874	0.00	0.00
ATOM 17314	N	LEU	1155	62.162	65.394	55.557	0.00	0.00
ATOM 17315	H	LEU	1155	61.344	64.888	55.246	0.00	0.00
ATOM 17316	CA	LEU	1155	62.610	66.581	54.770	0.00	0.00
ATOM 17317	HA	LEU	1155	63.664	66.431	54.537	0.00	0.00
ATOM 17318	CB	LEU	1155	61.661	66.709	53.511	0.00	0.00
ATOM 17319	HB2	LEU	1155	60.629	66.605	53.846	0.00	0.00
ATOM 17320	HB3	LEU	1155	61.691	67.723	53.110	0.00	0.00
ATOM 17321	CG	LEU	1155	62.007	65.556	52.456	0.00	0.00
ATOM 17322	HG	LEU	1155	61.923	64.557	52.884	0.00	0.00
ATOM 17323	CD1	LEU	1155	61.080	65.799	51.253	0.00	0.00
ATOM 17324	1HD1	LEU	1155	60.091	65.410	51.496	0.00	0.00
ATOM 17325	2HD1	LEU	1155	61.051	66.874	51.073	0.00	0.00
ATOM 17326	3HD1	LEU	1155	61.476	65.305	50.366	0.00	0.00
ATOM 17327	CD2	LEU	1155	63.549	65.431	52.023	0.00	0.00
ATOM 17328	1HD2	LEU	1155	63.845	66.325	51.473	0.00	0.00
ATOM 17329	2HD2	LEU	1155	64.297	65.275	52.801	0.00	0.00
ATOM 17330	3HD2	LEU	1155	63.661	64.548	51.394	0.00	0.00
ATOM 17331	C	LEU	1155	62.525	67.895	55.571	0.00	0.00
ATOM 17332	O	LEU	1155	63.331	68.750	55.154	0.00	0.00
ATOM 17333	N	GLN	1156	61.805	68.031	56.627	0.00	0.00
ATOM 17334	H	GLN	1156	61.178	67.272	56.853	0.00	0.00
ATOM 17335	CA	GLN	1156	61.666	69.249	57.383	0.00	0.00
ATOM 17336	HA	GLN	1156	61.912	70.157	56.832	0.00	0.00
ATOM 17337	CB	GLN	1156	60.183	69.415	57.904	0.00	0.00
ATOM 17338	HB2	GLN	1156	59.785	68.421	58.106	0.00	0.00

ATOM 17339	HB3	GLN	1156	60.266	69.949	58.851	0.00	0.00
ATOM 17340	CG	GLN	1156	59.343	70.155	56.843	0.00	0.00
ATOM 17341	HG2	GLN	1156	59.662	71.189	56.710	0.00	0.00
ATOM 17342	HG3	GLN	1156	59.237	69.658	55.879	0.00	0.00
ATOM 17343	CD	GLN	1156	57.870	70.264	57.411	0.00	0.00
ATOM 17344	OE1	GLN	1156	57.311	69.283	57.921	0.00	0.00
ATOM 17345	NE2	GLN	1156	57.269	71.351	57.130	0.00	0.00
ATOM 17346	1HE2	GLN	1156	56.331	71.508	57.471	0.00	0.00
ATOM 17347	2HE2	GLN	1156	57.810	72.085	56.697	0.00	0.00
ATOM 17348	C	GLN	1156	62.688	69.325	58.473	0.00	0.00
ATOM 17349	O	GLN	1156	63.436	70.324	58.665	0.00	0.00
ATOM 17350	N	ALA	1157	62.849	68.208	59.112	0.00	0.00
ATOM 17351	H	ALA	1157	62.201	67.446	58.972	0.00	0.00
ATOM 17352	CA	ALA	1157	64.118	67.959	59.765	0.00	0.00
ATOM 17353	HA	ALA	1157	64.167	68.724	60.539	0.00	0.00
ATOM 17354	CB	ALA	1157	63.977	66.684	60.589	0.00	0.00
ATOM 17355	HB1	ALA	1157	64.839	66.548	61.243	0.00	0.00
ATOM 17356	HB2	ALA	1157	63.070	66.616	61.189	0.00	0.00
ATOM 17357	HB3	ALA	1157	63.914	65.823	59.925	0.00	0.00
ATOM 17358	C	ALA	1157	65.376	67.996	58.965	0.00	0.00
ATOM 17359	O	ALA	1157	66.400	68.517	59.388	0.00	0.00
ATOM 17360	N	ALA	1158	65.448	67.593	57.702	0.00	0.00
ATOM 17361	H	ALA	1158	64.765	66.894	57.446	0.00	0.00
ATOM 17362	CA	ALA	1158	66.675	67.573	56.872	0.00	0.00
ATOM 17363	HA	ALA	1158	67.483	67.353	57.570	0.00	0.00
ATOM 17364	CB	ALA	1158	66.587	66.417	55.868	0.00	0.00

ATOM	17365	HB1	ALA	1158	66.491	65.381	56.196	0.00	0.00
ATOM	17366	HB2	ALA	1158	65.777	66.524	55.147	0.00	0.00
ATOM	17367	HB3	ALA	1158	67.521	66.457	55.309	0.00	0.00
ATOM	17368	C	ALA	1158	67.063	68.923	56.330	0.00	0.00
ATOM	17369	O	ALA	1158	68.231	69.271	56.284	0.00	0.00
ATOM	17370	N	ASP	1159	66.121	69.760	55.919	0.00	0.00
ATOM	17371	H	ASP	1159	65.169	69.437	55.822	0.00	0.00
ATOM	17372	CA	ASP	1159	66.400	71.178	55.634	0.00	0.00
ATOM	17373	HA	ASP	1159	67.136	71.397	54.861	0.00	0.00
ATOM	17374	CB	ASP	1159	65.124	71.911	55.212	0.00	0.00
ATOM	17375	HB2	ASP	1159	64.681	71.255	54.464	0.00	0.00
ATOM	17376	HB3	ASP	1159	64.468	71.925	56.082	0.00	0.00
ATOM	17377	CG	ASP	1159	65.430	73.239	54.600	0.00	0.00
ATOM	17378	OD1	ASP	1159	64.970	74.268	55.051	0.00	0.00
ATOM	17379	OD2	ASP	1159	65.883	73.149	53.440	0.00	0.00
ATOM	17380	C	ASP	1159	66.923	71.956	56.792	0.00	0.00
ATOM	17381	O	ASP	1159	67.462	73.060	56.683	0.00	0.00
ATOM	17382	N	SER	1160	66.973	71.338	58.000	0.00	0.00
ATOM	17383	H	SER	1160	66.491	70.458	58.112	0.00	0.00
ATOM	17384	CA	SER	1160	67.526	71.915	59.223	0.00	0.00
ATOM	17385	HA	SER	1160	67.698	72.965	58.984	0.00	0.00
ATOM	17386	CB	SER	1160	66.442	71.824	60.312	0.00	0.00
ATOM	17387	HB2	SER	1160	66.255	70.774	60.538	0.00	0.00
ATOM	17388	HB3	SER	1160	66.858	72.256	61.222	0.00	0.00
ATOM	17389	OG	SER	1160	65.151	72.421	60.016	0.00	0.00
ATOM	17390	HG	SER	1160	64.616	71.714	59.648	0.00	0.00



ATOM 17391	C	SER	1160	68.868	71.232	59.629	0.00	0.00
ATOM 17392	O	SER	1160	69.417	71.554	60.694	0.00	0.00
ATOM 17393	N	LEU	1161	69.354	70.275	58.838	0.00	0.00
ATOM 17394	H	LEU	1161	68.948	70.121	57.926	0.00	0.00
ATOM 17395	CA	LEU	1161	70.673	69.581	59.058	0.00	0.00
ATOM 17396	HA	LEU	1161	70.905	69.955	60.055	0.00	0.00
ATOM 17397	CB	LEU	1161	70.500	68.075	58.955	0.00	0.00
ATOM 17398	HB2	LEU	1161	69.975	67.795	58.043	0.00	0.00
ATOM 17399	HB3	LEU	1161	71.504	67.656	58.890	0.00	0.00
ATOM 17400	CG	LEU	1161	69.888	67.414	60.166	0.00	0.00
ATOM 17401	HG	LEU	1161	68.960	67.865	60.517	0.00	0.00
ATOM 17402	CD1	LEU	1161	69.416	66.025	59.716	0.00	0.00
ATOM 17403	1HD1	LEU	1161	68.961	65.511	60.562	0.00	0.00
ATOM 17404	2HD1	LEU	1161	68.704	66.199	58.909	0.00	0.00
ATOM 17405	3HD1	LEU	1161	70.227	65.416	59.315	0.00	0.00
ATOM 17406	CD2	LEU	1161	70.848	67.282	61.416	0.00	0.00
ATOM 17407	1HD2	LEU	1161	70.845	68.228	61.959	0.00	0.00
ATOM 17408	2HD2	LEU	1161	70.602	66.535	62.171	0.00	0.00
ATOM 17409	3HD2	LEU	1161	71.895	67.189	61.126	0.00	0.00
ATOM 17410	C	LEU	1161	71.759	70.063	58.081	0.00	0.00
ATOM 17411	O	LEU	1161	71.424	70.563	57.017	0.00	0.00
ATOM 17412	N	PRO	1162	73.068	70.002	58.558	0.00	0.00
ATOM 17413	CD	PRO	1162	73.462	69.630	59.911	0.00	0.00
ATOM 17414	HD2	PRO	1162	73.133	70.385	60.625	0.00	0.00
ATOM 17415	HD3	PRO	1162	73.079	68.693	60.315	0.00	0.00
ATOM 17416	CG	PRO	1162	75.032	69.356	59.798	0.00	0.00

ATOM 17417	HG2 PRO	1162	75.462	69.269	60.796	0.00	0.00
ATOM 17418	HG3 PRO	1162	75.184	68.414	59.270	0.00	0.00
ATOM 17419	CB PRO	1162	75.352	70.641	58.970	0.00	0.00
ATOM 17420	HB2 PRO	1162	75.294	71.619	59.447	0.00	0.00
ATOM 17421	HB3 PRO	1162	76.368	70.641	58.575	0.00	0.00
ATOM 17422	CA PRO	1162	74.247	70.545	57.880	0.00	0.00
ATOM 17423	HA PRO	1162	74.037	71.546	57.503	0.00	0.00
ATOM 17424	C PRO	1162	74.710	69.623	56.769	0.00	0.00
ATOM 17425	O PRO	1162	75.501	70.066	55.910	0.00	0.00
ATOM 17426	N VAL	1163	74.339	68.356	56.938	0.00	0.00
ATOM 17427	H VAL	1163	73.628	68.225	57.643	0.00	0.00
ATOM 17428	CA VAL	1163	74.666	67.319	55.967	0.00	0.00
ATOM 17429	HA VAL	1163	75.706	67.460	55.672	0.00	0.00
ATOM 17430	CB VAL	1163	74.486	65.859	56.583	0.00	0.00
ATOM 17431	HB VAL	1163	74.628	65.105	55.810	0.00	0.00
ATOM 17432	CG1 VAL	1163	75.561	65.560	57.605	0.00	0.00
ATOM 17433	1HG1 VAL	1163	75.258	66.125	58.486	0.00	0.00
ATOM 17434	2HG1 VAL	1163	75.548	64.531	57.963	0.00	0.00
ATOM 17435	3HG1 VAL	1163	76.537	65.901	57.258	0.00	0.00
ATOM 17436	CG2 VAL	1163	73.134	65.648	57.296	0.00	0.00
ATOM 17437	1HG2 VAL	1163	73.127	66.067	58.302	0.00	0.00
ATOM 17438	2HG2 VAL	1163	72.328	66.213	56.827	0.00	0.00
ATOM 17439	3HG2 VAL	1163	72.909	64.582	57.287	0.00	0.00
ATOM 17440	C VAL	1163	73.886	67.594	54.710	0.00	0.00
ATOM 17441	O VAL	1163	72.737	67.997	54.866	0.00	0.00
ATOM 17442	N ASN	1164	74.431	67.327	53.540	0.00	0.00

ATOM 17443	H	ASN 1164	75.254	66.767	53.713	0.00	0.00
ATOM 17444	CA	ASN 1164	73.586	67.116	52.397	0.00	0.00
ATOM 17445	HA	ASN 1164	72.871	67.934	52.479	0.00	0.00
ATOM 17446	CB	ASN 1164	74.409	66.936	51.095	0.00	0.00
ATOM 17447	HB2	ASN 1164	74.883	65.957	51.033	0.00	0.00
ATOM 17448	HB3	ASN 1164	73.711	67.039	50.264	0.00	0.00
ATOM 17449	CG	ASN 1164	75.383	68.046	50.830	0.00	0.00
ATOM 17450	OD1	ASN 1164	75.114	69.250	50.908	0.00	0.00
ATOM 17451	ND2	ASN 1164	76.538	67.668	50.416	0.00	0.00
ATOM 17452	1HD2	ASN 1164	77.339	68.248	50.214	0.00	0.00
ATOM 17453	2HD2	ASN 1164	76.804	66.694	50.433	0.00	0.00
ATOM 17454	C	ASN 1164	72.822	65.784	52.550	0.00	0.00
ATOM 17455	O	ASN 1164	73.385	64.777	52.953	0.00	0.00
ATOM 17456	N	ILE 1165	71.491	65.676	52.218	0.00	0.00
ATOM 17457	H	ILE 1165	70.980	66.502	51.942	0.00	0.00
ATOM 17458	CA	ILE 1165	70.573	64.587	52.443	0.00	0.00
ATOM 17459	HA	ILE 1165	71.043	63.644	52.724	0.00	0.00
ATOM 17460	CB	ILE 1165	69.665	64.859	53.636	0.00	0.00
ATOM 17461	HB	ILE 1165	69.427	65.922	53.678	0.00	0.00
ATOM 17462	CG2	ILE 1165	68.355	64.111	53.627	0.00	0.00
ATOM 17463	1HG2	ILE 1165	67.791	64.236	54.552	0.00	0.00
ATOM 17464	2HG2	ILE 1165	67.765	64.413	52.762	0.00	0.00
ATOM 17465	3HG2	ILE 1165	68.612	63.054	53.565	0.00	0.00
ATOM 17466	CG1	ILE 1165	70.465	64.512	54.952	0.00	0.00
ATOM 17467	2HG1	ILE 1165	70.633	63.437	54.882	0.00	0.00
ATOM 17468	3HG1	ILE 1165	71.407	65.052	54.858	0.00	0.00

ATOM	17469	CD1	ILE	1165	69.832	64.811	56.328	0.00	0.00
ATOM	17470	1HD1	ILE	1165	68.890	64.292	56.502	0.00	0.00
ATOM	17471	2HD1	ILE	1165	70.577	64.594	57.094	0.00	0.00
ATOM	17472	3HD1	ILE	1165	69.638	65.883	56.340	0.00	0.00
ATOM	17473	C	ILE	1165	69.814	64.226	51.176	0.00	0.00
ATOM	17474	O	ILE	1165	69.201	65.051	50.514	0.00	0.00
ATOM	17475	N	GLY	1166	69.952	62.948	50.843	0.00	0.00
ATOM	17476	H	GLY	1166	70.531	62.360	51.425	0.00	0.00
ATOM	17477	CA	GLY	1166	68.826	62.187	50.250	0.00	0.00
ATOM	17478	HA2	GLY	1166	69.153	61.706	49.329	0.00	0.00
ATOM	17479	HA3	GLY	1166	68.123	62.990	50.027	0.00	0.00
ATOM	17480	C	GLY	1166	68.126	61.235	51.246	0.00	0.00
ATOM	17481	O	GLY	1166	68.710	60.505	51.988	0.00	0.00
ATOM	17482	N	LEU	1167	66.837	61.036	51.044	0.00	0.00
ATOM	17483	H	LEU	1167	66.368	61.652	50.396	0.00	0.00
ATOM	17484	CA	LEU	1167	66.003	60.047	51.750	0.00	0.00
ATOM	17485	HA	LEU	1167	66.528	59.667	52.627	0.00	0.00
ATOM	17486	CB	LEU	1167	64.722	60.738	52.271	0.00	0.00
ATOM	17487	HB2	LEU	1167	64.367	61.171	51.336	0.00	0.00
ATOM	17488	HB3	LEU	1167	64.028	59.966	52.602	0.00	0.00
ATOM	17489	CG	LEU	1167	64.872	61.953	53.277	0.00	0.00
ATOM	17490	HG	LEU	1167	65.546	62.673	52.811	0.00	0.00
ATOM	17491	CD1	LEU	1167	63.478	62.454	53.562	0.00	0.00
ATOM	17492	1HD1	LEU	1167	63.557	63.408	54.082	0.00	0.00
ATOM	17493	2HD1	LEU	1167	63.045	62.699	52.592	0.00	0.00
ATOM	17494	3HD1	LEU	1167	62.826	61.724	54.040	0.00	0.00

ATOM 17495	CD2	LEU	1167	65.528	61.615	54.637	0.00	0.00
ATOM 17496	1HD2	LEU	1167	64.857	61.007	55.244	0.00	0.00
ATOM 17497	2HD2	LEU	1167	66.527	61.225	54.439	0.00	0.00
ATOM 17498	3HD2	LEU	1167	65.555	62.572	55.158	0.00	0.00
ATOM 17499	C	LEU	1167	65.784	58.815	50.911	0.00	0.00
ATOM 17500	O	LEU	1167	65.454	58.926	49.710	0.00	0.00
ATOM 17501	N	LEU	1168	65.754	57.694	51.621	0.00	0.00
ATOM 17502	H	LEU	1168	66.086	57.782	52.571	0.00	0.00
ATOM 17503	CA	LEU	1168	65.188	56.421	51.189	0.00	0.00
ATOM 17504	HA	LEU	1168	65.076	56.471	50.106	0.00	0.00
ATOM 17505	CB	LEU	1168	66.144	55.218	51.691	0.00	0.00
ATOM 17506	HB2	LEU	1168	66.216	55.320	52.774	0.00	0.00
ATOM 17507	HB3	LEU	1168	65.513	54.348	51.506	0.00	0.00
ATOM 17508	CG	LEU	1168	67.580	55.191	50.994	0.00	0.00
ATOM 17509	HG	LEU	1168	68.000	56.192	51.087	0.00	0.00
ATOM 17510	CD1	LEU	1168	68.403	54.194	51.789	0.00	0.00
ATOM 17511	1HD1	LEU	1168	68.027	53.180	51.654	0.00	0.00
ATOM 17512	2HD1	LEU	1168	69.423	54.207	51.406	0.00	0.00
ATOM 17513	3HD1	LEU	1168	68.423	54.483	52.840	0.00	0.00
ATOM 17514	CD2	LEU	1168	67.431	54.745	49.538	0.00	0.00
ATOM 17515	1HD2	LEU	1168	68.401	54.738	49.040	0.00	0.00
ATOM 17516	2HD2	LEU	1168	66.974	53.758	49.469	0.00	0.00
ATOM 17517	3HD2	LEU	1168	66.740	55.420	49.034	0.00	0.00
ATOM 17518	C	LEU	1168	63.810	56.187	51.829	0.00	0.00
ATOM 17519	O	LEU	1168	63.642	56.377	53.036	0.00	0.00
ATOM 17520	N	GLY	1169	62.909	55.601	51.069	0.00	0.00

ATOM	17521	H	GLY	1169	63.241	55.191	50.207	0.00	0.00
ATOM	17522	CA	GLY	1169	61.474	55.307	51.395	0.00	0.00
ATOM	17523	HA2	GLY	1169	61.061	55.818	52.265	0.00	0.00
ATOM	17524	HA3	GLY	1169	60.896	55.501	50.492	0.00	0.00
ATOM	17525	C	GLY	1169	61.305	53.802	51.624	0.00	0.00
ATOM	17526	O	GLY	1169	62.126	52.990	51.197	0.00	0.00
ATOM	17527	N	LYS	1170	60.170	53.380	52.227	0.00	0.00
ATOM	17528	H	LYS	1170	59.507	54.119	52.412	0.00	0.00
ATOM	17529	CA	LYS	1170	59.712	51.978	52.337	0.00	0.00
ATOM	17530	HA	LYS	1170	60.474	51.341	52.785	0.00	0.00
ATOM	17531	CB	LYS	1170	58.494	51.938	53.275	0.00	0.00
ATOM	17532	HB2	LYS	1170	58.575	52.640	54.105	0.00	0.00
ATOM	17533	HB3	LYS	1170	57.653	52.335	52.705	0.00	0.00
ATOM	17534	CG	LYS	1170	58.155	50.499	53.716	0.00	0.00
ATOM	17535	HG2	LYS	1170	58.186	49.918	52.794	0.00	0.00
ATOM	17536	HG3	LYS	1170	58.919	50.238	54.449	0.00	0.00
ATOM	17537	CD	LYS	1170	56.702	50.261	54.230	0.00	0.00
ATOM	17538	HD2	LYS	1170	56.092	50.583	53.386	0.00	0.00
ATOM	17539	HD3	LYS	1170	56.609	49.186	54.382	0.00	0.00
ATOM	17540	CE	LYS	1170	56.308	51.006	55.524	0.00	0.00
ATOM	17541	HE2	LYS	1170	57.107	50.944	56.263	0.00	0.00
ATOM	17542	HE3	LYS	1170	56.085	52.051	55.311	0.00	0.00
ATOM	17543	NZ	LYS	1170	55.094	50.411	56.163	0.00	0.00
ATOM	17544	HZ1	LYS	1170	55.228	49.411	56.213	0.00	0.00
ATOM	17545	HZ2	LYS	1170	54.959	50.761	57.101	0.00	0.00
ATOM	17546	HZ3	LYS	1170	54.289	50.542	55.569	0.00	0.00

ATOM	17547	C	LYS	1170	59.432	51.371	50.942	0.00	0.00
ATOM	17548	O	LYS	1170	58.409	51.663	50.324	0.00	0.00
ATOM	17549	N	GLY	1171	60.310	50.446	50.449	0.00	0.00
ATOM	17550	H	GLY	1171	61.250	50.391	50.816	0.00	0.00
ATOM	17551	CA	GLY	1171	60.200	49.798	49.154	0.00	0.00
ATOM	17552	HA2	GLY	1171	59.926	50.426	48.306	0.00	0.00
ATOM	17553	HA3	GLY	1171	61.164	49.309	49.013	0.00	0.00
ATOM	17554	C	GLY	1171	59.141	48.621	49.176	0.00	0.00
ATOM	17555	O	GLY	1171	58.734	48.149	48.108	0.00	0.00
ATOM	17556	N	ASN	1172	58.778	48.176	50.394	0.00	0.00
ATOM	17557	H	ASN	1172	59.149	48.649	51.205	0.00	0.00
ATOM	17558	CA	ASN	1172	58.079	46.868	50.631	0.00	0.00
ATOM	17559	HA	ASN	1172	58.347	46.135	49.871	0.00	0.00
ATOM	17560	CB	ASN	1172	58.613	46.247	51.916	0.00	0.00
ATOM	17561	HB2	ASN	1172	58.572	47.005	52.698	0.00	0.00
ATOM	17562	HB3	ASN	1172	57.933	45.462	52.245	0.00	0.00
ATOM	17563	CG	ASN	1172	59.909	45.490	51.651	0.00	0.00
ATOM	17564	OD1	ASN	1172	60.957	46.060	51.905	0.00	0.00
ATOM	17565	ND2	ASN	1172	59.885	44.316	51.038	0.00	0.00
ATOM	17566	1HD2	ASN	1172	60.727	43.759	51.037	0.00	0.00
ATOM	17567	2HD2	ASN	1172	59.039	43.898	50.679	0.00	0.00
ATOM	17568	C	ASN	1172	56.569	47.110	50.526	0.00	0.00
ATOM	17569	O	ASN	1172	55.893	47.291	51.504	0.00	0.00
ATOM	17570	N	VAL	1173	56.102	47.211	49.265	0.00	0.00
ATOM	17571	H	VAL	1173	56.719	47.015	48.489	0.00	0.00
ATOM	17572	CA	VAL	1173	54.609	47.117	48.906	0.00	0.00

ATOM 17573	HA	VAL	1173	54.031	46.640	49.698	0.00	0.00
ATOM 17574	CB	VAL	1173	53.955	48.514	48.776	0.00	0.00
ATOM 17575	HB	VAL	1173	54.108	48.867	47.756	0.00	0.00
ATOM 17576	CG1	VAL	1173	52.394	48.293	48.795	0.00	0.00
ATOM 17577	1HG1	VAL	1173	51.833	49.216	48.655	0.00	0.00
ATOM 17578	2HG1	VAL	1173	52.282	47.594	47.966	0.00	0.00
ATOM 17579	3HG1	VAL	1173	52.003	47.890	49.729	0.00	0.00
ATOM 17580	CG2	VAL	1173	54.390	49.577	49.824	0.00	0.00
ATOM 17581	1HG2	VAL	1173	55.454	49.507	50.046	0.00	0.00
ATOM 17582	2HG2	VAL	1173	54.188	50.586	49.463	0.00	0.00
ATOM 17583	3HG2	VAL	1173	53.776	49.432	50.713	0.00	0.00
ATOM 17584	C	VAL	1173	54.455	46.381	47.525	0.00	0.00
ATOM 17585	O	VAL	1173	55.032	46.804	46.566	0.00	0.00
ATOM 17586	N	SER	1174	53.658	45.358	47.461	0.00	0.00
ATOM 17587	H	SER	1174	53.322	45.004	48.345	0.00	0.00
ATOM 17588	CA	SER	1174	53.330	44.652	46.144	0.00	0.00
ATOM 17589	HA	SER	1174	54.347	44.483	45.790	0.00	0.00
ATOM 17590	CB	SER	1174	52.713	43.305	46.487	0.00	0.00
ATOM 17591	HB2	SER	1174	51.837	43.484	47.110	0.00	0.00
ATOM 17592	HB3	SER	1174	52.481	42.750	45.578	0.00	0.00
ATOM 17593	OG	SER	1174	53.654	42.512	47.278	0.00	0.00
ATOM 17594	HG	SER	1174	53.815	42.947	48.119	0.00	0.00
ATOM 17595	C	SER	1174	52.470	45.398	45.123	0.00	0.00
ATOM 17596	O	SER	1174	51.737	44.683	44.386	0.00	0.00
ATOM 17597	N	GLN	1175	52.625	46.712	44.927	0.00	0.00
ATOM 17598	H	GLN	1175	53.385	47.084	45.478	0.00	0.00



ATOM 17599	CA	GLN	1175	52.082	47.487	43.834	0.00	0.00
ATOM 17600	HA	GLN	1175	52.203	46.985	42.874	0.00	0.00
ATOM 17601	CB	GLN	1175	50.559	47.713	43.902	0.00	0.00
ATOM 17602	HB2	GLN	1175	50.082	48.232	43.070	0.00	0.00
ATOM 17603	HB3	GLN	1175	50.111	46.721	43.835	0.00	0.00
ATOM 17604	CG	GLN	1175	50.011	48.324	45.225	0.00	0.00
ATOM 17605	HG2	GLN	1175	49.135	47.717	45.455	0.00	0.00
ATOM 17606	HG3	GLN	1175	50.835	48.376	45.936	0.00	0.00
ATOM 17607	CD	GLN	1175	49.506	49.783	45.071	0.00	0.00
ATOM 17608	OE1	GLN	1175	49.939	50.512	44.223	0.00	0.00
ATOM 17609	NE2	GLN	1175	48.574	50.208	45.873	0.00	0.00
ATOM 17610	1HE2	GLN	1175	48.359	51.174	46.078	0.00	0.00
ATOM 17611	2HE2	GLN	1175	48.261	49.469	46.487	0.00	0.00
ATOM 17612	C	GLN	1175	52.759	48.874	43.762	0.00	0.00
ATOM 17613	O	GLN	1175	53.020	49.421	44.867	0.00	0.00
ATOM 17614	N	PRO	1176	53.018	49.436	42.567	0.00	0.00
ATOM 17615	CD	PRO	1176	52.582	48.823	41.319	0.00	0.00
ATOM 17616	HD2	PRO	1176	53.243	47.965	41.192	0.00	0.00
ATOM 17617	HD3	PRO	1176	51.512	48.613	41.316	0.00	0.00
ATOM 17618	CG	PRO	1176	53.027	49.820	40.240	0.00	0.00
ATOM 17619	HG2	PRO	1176	53.354	49.335	39.320	0.00	0.00
ATOM 17620	HG3	PRO	1176	52.285	50.606	40.099	0.00	0.00
ATOM 17621	CB	PRO	1176	54.232	50.470	40.906	0.00	0.00
ATOM 17622	HB2	PRO	1176	55.094	49.815	40.778	0.00	0.00
ATOM 17623	HB3	PRO	1176	54.458	51.426	40.434	0.00	0.00
ATOM 17624	CA	PRO	1176	53.978	50.528	42.430	0.00	0.00

ATOM 17625	HA	PRO	1176	54.830	50.285	43.066	0.00	0.00
ATOM 17626	C	PRO	1176	53.508	51.908	42.849	0.00	0.00
ATOM 17627	O	PRO	1176	54.310	52.676	43.326	0.00	0.00
ATOM 17628	N	ASP	1177	52.179	52.189	42.626	0.00	0.00
ATOM 17629	H	ASP	1177	51.598	51.433	42.294	0.00	0.00
ATOM 17630	CA	ASP	1177	51.622	53.596	42.882	0.00	0.00
ATOM 17631	HA	ASP	1177	52.186	54.264	42.231	0.00	0.00
ATOM 17632	CB	ASP	1177	50.123	53.571	42.408	0.00	0.00
ATOM 17633	HB2	ASP	1177	50.068	52.906	41.546	0.00	0.00
ATOM 17634	HB3	ASP	1177	49.410	53.246	43.166	0.00	0.00
ATOM 17635	CG	ASP	1177	49.759	54.998	41.972	0.00	0.00
ATOM 17636	OD1	ASP	1177	49.932	55.165	40.753	0.00	0.00
ATOM 17637	OD2	ASP	1177	49.534	55.890	42.797	0.00	0.00
ATOM 17638	C	ASP	1177	51.705	54.142	44.363	0.00	0.00
ATOM 17639	O	ASP	1177	51.958	55.305	44.560	0.00	0.00
ATOM 17640	N	ALA	1178	51.573	53.312	45.355	0.00	0.00
ATOM 17641	H	ALA	1178	51.324	52.349	45.181	0.00	0.00
ATOM 17642	CA	ALA	1178	51.927	53.602	46.746	0.00	0.00
ATOM 17643	HA	ALA	1178	51.331	54.447	47.091	0.00	0.00
ATOM 17644	CB	ALA	1178	51.716	52.260	47.592	0.00	0.00
ATOM 17645	HB1	ALA	1178	52.390	51.499	47.199	0.00	0.00
ATOM 17646	HB2	ALA	1178	51.987	52.417	48.636	0.00	0.00
ATOM 17647	HB3	ALA	1178	50.700	51.865	47.574	0.00	0.00
ATOM 17648	C	ALA	1178	53.419	54.017	46.763	0.00	0.00
ATOM 17649	O	ALA	1178	53.794	54.982	47.432	0.00	0.00
ATOM 17650	N	LEU	1179	54.284	53.346	46.000	0.00	0.00

ATOM 17651	H	LEU	1179	53.894	52.688	45.341	0.00	0.00
ATOM 17652	CA	LEU	1179	55.665	53.614	46.099	0.00	0.00
ATOM 17653	HA	LEU	1179	55.985	53.712	47.137	0.00	0.00
ATOM 17654	CB	LEU	1179	56.446	52.456	45.500	0.00	0.00
ATOM 17655	HB2	LEU	1179	56.365	52.511	44.414	0.00	0.00
ATOM 17656	HB3	LEU	1179	57.489	52.753	45.610	0.00	0.00
ATOM 17657	CG	LEU	1179	56.346	51.057	45.955	0.00	0.00
ATOM 17658	HG	LEU	1179	55.333	50.699	45.774	0.00	0.00
ATOM 17659	CD1	LEU	1179	57.207	50.153	45.099	0.00	0.00
ATOM 17660	1HD1	LEU	1179	57.171	49.131	45.476	0.00	0.00
ATOM 17661	2HD1	LEU	1179	56.731	50.184	44.119	0.00	0.00
ATOM 17662	3HD1	LEU	1179	58.200	50.595	45.185	0.00	0.00
ATOM 17663	CD2	LEU	1179	56.844	50.994	47.361	0.00	0.00
ATOM 17664	1HD2	LEU	1179	57.791	51.505	47.538	0.00	0.00
ATOM 17665	2HD2	LEU	1179	56.212	51.531	48.068	0.00	0.00
ATOM 17666	3HD2	LEU	1179	56.897	49.942	47.640	0.00	0.00
ATOM 17667	C	LEU	1179	56.068	54.893	45.278	0.00	0.00
ATOM 17668	O	LEU	1179	56.953	55.629	45.716	0.00	0.00
ATOM 17669	N	ARG	1180	55.440	55.198	44.150	0.00	0.00
ATOM 17670	H	ARG	1180	54.902	54.448	43.739	0.00	0.00
ATOM 17671	CA	ARG	1180	55.368	56.543	43.429	0.00	0.00
ATOM 17672	HA	ARG	1180	56.280	56.757	42.871	0.00	0.00
ATOM 17673	CB	ARG	1180	54.252	56.662	42.365	0.00	0.00
ATOM 17674	HB2	ARG	1180	53.287	56.347	42.761	0.00	0.00
ATOM 17675	HB3	ARG	1180	54.188	57.730	42.156	0.00	0.00
ATOM 17676	CG	ARG	1180	54.461	55.847	41.143	0.00	0.00

ATOM	17677	HG2	ARG	1180	55.410	56.233	40.771	0.00	0.00
ATOM	17678	HG3	ARG	1180	54.465	54.818	41.503	0.00	0.00
ATOM	17679	CD	ARG	1180	53.272	55.961	40.129	0.00	0.00
ATOM	17680	HD2	ARG	1180	52.253	55.848	40.498	0.00	0.00
ATOM	17681	HD3	ARG	1180	53.164	56.908	39.600	0.00	0.00
ATOM	17682	NE	ARG	1180	53.401	54.889	39.114	0.00	0.00
ATOM	17683	HE	ARG	1180	54.264	54.935	38.591	0.00	0.00
ATOM	17684	CZ	ARG	1180	52.568	53.978	38.638	0.00	0.00
ATOM	17685	NH1	ARG	1180	51.485	53.648	39.134	0.00	0.00
ATOM	17686	1HH1	ARG	1180	51.037	52.812	38.788	0.00	0.00
ATOM	17687	2HH1	ARG	1180	51.074	54.055	39.962	0.00	0.00
ATOM	17688	NH2	ARG	1180	52.989	53.179	37.735	0.00	0.00
ATOM	17689	1HH2	ARG	1180	52.546	52.307	37.481	0.00	0.00
ATOM	17690	2HH2	ARG	1180	53.682	53.580	37.119	0.00	0.00
ATOM	17691	C	ARG	1180	55.101	57.674	44.385	0.00	0.00
ATOM	17692	O	ARG	1180	55.719	58.772	44.235	0.00	0.00
ATOM	17693	N	GLU	1181	54.040	57.458	45.268	0.00	0.00
ATOM	17694	H	GLU	1181	53.529	56.588	45.297	0.00	0.00
ATOM	17695	CA	GLU	1181	53.576	58.439	46.219	0.00	0.00
ATOM	17696	HA	GLU	1181	53.350	59.311	45.605	0.00	0.00
ATOM	17697	CB	GLU	1181	52.356	57.941	46.927	0.00	0.00
ATOM	17698	HB2	GLU	1181	51.732	57.424	46.198	0.00	0.00
ATOM	17699	HB3	GLU	1181	52.684	57.245	47.698	0.00	0.00
ATOM	17700	CG	GLU	1181	51.338	59.008	47.533	0.00	0.00
ATOM	17701	HG2	GLU	1181	50.505	58.551	48.067	0.00	0.00
ATOM	17702	HG3	GLU	1181	51.831	59.684	48.232	0.00	0.00

ATOM 17703	CD	GLU	1181	50.814	60.026	46.477	0.00	0.00
ATOM 17704	OE1	GLU	1181	49.625	59.983	46.112	0.00	0.00
ATOM 17705	OE2	GLU	1181	51.592	60.956	46.212	0.00	0.00
ATOM 17706	C	GLU	1181	54.702	58.863	47.131	0.00	0.00
ATOM 17707	O	GLU	1181	54.919	60.058	47.286	0.00	0.00
ATOM 17708	N	GLN	1182	55.456	57.890	47.602	0.00	0.00
ATOM 17709	H	GLN	1182	55.024	56.978	47.568	0.00	0.00
ATOM 17710	CA	GLN	1182	56.669	58.244	48.468	0.00	0.00
ATOM 17711	HA	GLN	1182	56.338	58.997	49.184	0.00	0.00
ATOM 17712	CB	GLN	1182	57.214	56.947	49.193	0.00	0.00
ATOM 17713	HB2	GLN	1182	57.584	56.359	48.353	0.00	0.00
ATOM 17714	HB3	GLN	1182	58.152	57.155	49.706	0.00	0.00
ATOM 17715	CG	GLN	1182	56.212	56.422	50.193	0.00	0.00
ATOM 17716	HG2	GLN	1182	56.153	57.079	51.061	0.00	0.00
ATOM 17717	HG3	GLN	1182	55.222	56.243	49.775	0.00	0.00
ATOM 17718	CD	GLN	1182	56.731	54.991	50.614	0.00	0.00
ATOM 17719	OE1	GLN	1182	56.841	54.683	51.817	0.00	0.00
ATOM 17720	NE2	GLN	1182	56.941	54.057	49.758	0.00	0.00
ATOM 17721	1HE2	GLN	1182	57.435	53.216	50.021	0.00	0.00
ATOM 17722	2HE2	GLN	1182	56.382	54.026	48.917	0.00	0.00
ATOM 17723	C	GLN	1182	57.844	58.928	47.684	0.00	0.00
ATOM 17724	O	GLN	1182	58.602	59.688	48.313	0.00	0.00
ATOM 17725	N	VAL	1183	57.820	58.847	46.373	0.00	0.00
ATOM 17726	H	VAL	1183	57.116	58.232	45.992	0.00	0.00
ATOM 17727	CA	VAL	1183	58.830	59.474	45.429	0.00	0.00
ATOM 17728	HA	VAL	1183	59.760	59.465	45.998	0.00	0.00

ATOM 17729	CB VAL 1183	59.053	58.678	44.090	0.00	0.00
ATOM 17730	HB VAL 1183	58.113	58.454	43.585	0.00	0.00
ATOM 17731	CG1 VAL 1183	60.092	59.316	43.150	0.00	0.00
ATOM 17732	1HG1 VAL 1183	60.948	59.682	43.716	0.00	0.00
ATOM 17733	2HG1 VAL 1183	60.366	58.645	42.336	0.00	0.00
ATOM 17734	3HG1 VAL 1183	59.709	60.235	42.705	0.00	0.00
ATOM 17735	CG2 VAL 1183	59.640	57.256	44.450	0.00	0.00
ATOM 17736	1HG2 VAL 1183	58.908	56.824	45.131	0.00	0.00
ATOM 17737	2HG2 VAL 1183	59.888	56.637	43.587	0.00	0.00
ATOM 17738	3HG2 VAL 1183	60.579	57.357	44.995	0.00	0.00
ATOM 17739	C VAL 1183	58.352	60.888	45.176	0.00	0.00
ATOM 17740	O VAL 1183	59.117	61.819	45.283	0.00	0.00
ATOM 17741	N ALA 1184	57.107	61.165	44.838	0.00	0.00
ATOM 17742	H ALA 1184	56.372	60.475	44.773	0.00	0.00
ATOM 17743	CA ALA 1184	56.563	62.551	44.708	0.00	0.00
ATOM 17744	HA ALA 1184	57.244	63.158	44.111	0.00	0.00
ATOM 17745	CB ALA 1184	55.302	62.458	43.828	0.00	0.00
ATOM 17746	HB1 ALA 1184	54.495	62.118	44.477	0.00	0.00
ATOM 17747	HB2 ALA 1184	55.065	63.468	43.494	0.00	0.00
ATOM 17748	HB3 ALA 1184	55.510	61.735	43.039	0.00	0.00
ATOM 17749	C ALA 1184	56.372	63.337	46.044	0.00	0.00
ATOM 17750	O ALA 1184	55.964	64.517	46.150	0.00	0.00
ATOM 17751	N ALA 1185	56.691	62.642	47.151	0.00	0.00
ATOM 17752	H ALA 1185	56.940	61.686	46.941	0.00	0.00
ATOM 17753	CA ALA 1185	56.931	63.231	48.509	0.00	0.00
ATOM 17754	HA ALA 1185	56.540	64.248	48.535	0.00	0.00

ATOM 17755	CB	ALA	1185	56.207	62.384	49.512	0.00	0.00
ATOM 17756	HB1	ALA	1185	55.132	62.281	49.359	0.00	0.00
ATOM 17757	HB2	ALA	1185	56.749	61.443	49.422	0.00	0.00
ATOM 17758	HB3	ALA	1185	56.406	62.669	50.545	0.00	0.00
ATOM 17759	C	ALA	1185	58.372	63.437	48.787	0.00	0.00
ATOM 17760	O	ALA	1185	58.722	64.084	49.822	0.00	0.00
ATOM 17761	N	GLY	1186	59.314	63.002	47.982	0.00	0.00
ATOM 17762	H	GLY	1186	58.915	62.666	47.118	0.00	0.00
ATOM 17763	CA	GLY	1186	60.716	63.551	47.857	0.00	0.00
ATOM 17764	HA2	GLY	1186	60.947	63.942	46.866	0.00	0.00
ATOM 17765	HA3	GLY	1186	60.726	64.457	48.463	0.00	0.00
ATOM 17766	C	GLY	1186	61.911	62.689	48.312	0.00	0.00
ATOM 17767	O	GLY	1186	63.051	63.190	48.478	0.00	0.00
ATOM 17768	N	VAL	1187	61.733	61.351	48.321	0.00	0.00
ATOM 17769	H	VAL	1187	60.816	60.933	48.261	0.00	0.00
ATOM 17770	CA	VAL	1187	62.877	60.346	48.356	0.00	0.00
ATOM 17771	HA	VAL	1187	63.571	60.715	49.111	0.00	0.00
ATOM 17772	CB	VAL	1187	62.398	58.922	48.773	0.00	0.00
ATOM 17773	HB	VAL	1187	63.250	58.246	48.836	0.00	0.00
ATOM 17774	CG1	VAL	1187	61.641	58.970	50.135	0.00	0.00
ATOM 17775	1HG1	VAL	1187	60.937	59.801	50.173	0.00	0.00
ATOM 17776	2HG1	VAL	1187	61.158	58.015	50.340	0.00	0.00
ATOM 17777	3HG1	VAL	1187	62.415	59.117	50.888	0.00	0.00
ATOM 17778	CG2	VAL	1187	61.573	58.175	47.752	0.00	0.00
ATOM 17779	1HG2	VAL	1187	60.665	58.769	47.654	0.00	0.00
ATOM 17780	2HG2	VAL	1187	62.076	58.132	46.786	0.00	0.00

ATOM 17781 3HG2 VAL 1187 61.311 57.180 48.113 0.00 0.00  
ATOM 17782 C VAL 1187 63.653 60.303 47.062 0.00 0.00  
ATOM 17783 O VAL 1187 63.155 60.757 46.038 0.00 0.00  
ATOM 17784 N ILE 1188 64.875 59.843 47.097 0.00 0.00  
ATOM 17785 H ILE 1188 65.096 59.445 47.999 0.00 0.00  
ATOM 17786 CA ILE 1188 65.769 59.516 45.936 0.00 0.00  
ATOM 17787 HA ILE 1188 65.150 59.885 45.118 0.00 0.00  
ATOM 17788 CB ILE 1188 67.105 60.315 45.851 0.00 0.00  
ATOM 17789 HB ILE 1188 67.655 60.054 44.947 0.00 0.00  
ATOM 17790 CG2 ILE 1188 66.822 61.789 45.658 0.00 0.00  
ATOM 17791 1HG2 ILE 1188 66.482 62.142 46.632 0.00 0.00  
ATOM 17792 2HG2 ILE 1188 67.736 62.302 45.358 0.00 0.00  
ATOM 17793 3HG2 ILE 1188 65.995 61.898 44.956 0.00 0.00  
ATOM 17794 CG1 ILE 1188 67.953 59.956 47.094 0.00 0.00  
ATOM 17795 2HG1 ILE 1188 67.636 60.494 47.987 0.00 0.00  
ATOM 17796 3HG1 ILE 1188 67.862 58.871 47.141 0.00 0.00  
ATOM 17797 CD1 ILE 1188 69.388 60.258 46.749 0.00 0.00  
ATOM 17798 1HD1 ILE 1188 69.519 61.319 46.537 0.00 0.00  
ATOM 17799 2HD1 ILE 1188 69.997 60.026 47.622 0.00 0.00  
ATOM 17800 3HD1 ILE 1188 69.796 59.629 45.958 0.00 0.00  
ATOM 17801 C ILE 1188 65.940 58.022 45.621 0.00 0.00  
ATOM 17802 O ILE 1188 66.740 57.631 44.723 0.00 0.00  
ATOM 17803 N GLY 1189 65.376 57.128 46.428 0.00 0.00  
ATOM 17804 H GLY 1189 64.680 57.392 47.111 0.00 0.00  
ATOM 17805 CA GLY 1189 65.429 55.700 46.193 0.00 0.00  
ATOM 17806 HA2 GLY 1189 65.080 55.483 45.184 0.00 0.00



ATOM 17807	HA3	GLY	1189	66.441	55.306	46.293	0.00	0.00
ATOM 17808	C	GLY	1189	64.486	54.925	47.215	0.00	0.00
ATOM 17809	O	GLY	1189	63.964	55.606	48.097	0.00	0.00
ATOM 17810	N	LEU	1190	64.300	53.588	46.991	0.00	0.00
ATOM 17811	H	LEU	1190	64.679	53.118	46.181	0.00	0.00
ATOM 17812	CA	LEU	1190	63.445	52.822	47.976	0.00	0.00
ATOM 17813	HA	LEU	1190	63.249	53.392	48.883	0.00	0.00
ATOM 17814	CB	LEU	1190	62.173	52.407	47.266	0.00	0.00
ATOM 17815	HB2	LEU	1190	62.494	51.756	46.453	0.00	0.00
ATOM 17816	HB3	LEU	1190	61.628	51.751	47.946	0.00	0.00
ATOM 17817	CG	LEU	1190	61.286	53.526	46.671	0.00	0.00
ATOM 17818	HG	LEU	1190	61.873	54.376	46.322	0.00	0.00
ATOM 17819	CD1	LEU	1190	60.330	52.850	45.608	0.00	0.00
ATOM 17820	1HD1	LEU	1190	59.762	53.622	45.090	0.00	0.00
ATOM 17821	2HD1	LEU	1190	60.866	52.284	44.847	0.00	0.00
ATOM 17822	3HD1	LEU	1190	59.670	52.231	46.215	0.00	0.00
ATOM 17823	CD2	LEU	1190	60.367	54.104	47.761	0.00	0.00
ATOM 17824	1HD2	LEU	1190	59.713	54.841	47.295	0.00	0.00
ATOM 17825	2HD2	LEU	1190	59.788	53.380	48.334	0.00	0.00
ATOM 17826	3HD2	LEU	1190	61.139	54.604	48.345	0.00	0.00
ATOM 17827	C	LEU	1190	64.127	51.534	48.350	0.00	0.00
ATOM 17828	O	LEU	1190	64.720	50.893	47.470	0.00	0.00
ATOM 17829	N	KCB	1191	64.205	51.099	49.655	0.00	0.00
ATOM 17830	H	KCB	1191	63.607	51.631	50.272	0.00	0.00
ATOM 17831	CA	KCB	1191	64.963	49.914	50.031	0.00	0.00
ATOM 17832	HA	KCB	1191	65.551	49.707	49.137	0.00	0.00

ATOM 17833	CB	KCB	1191	65.882	50.185	51.182	0.00	0.00
ATOM 17834	HB2	KCB	1191	66.620	50.899	50.815	0.00	0.00
ATOM 17835	HB3	KCB	1191	65.286	50.682	51.947	0.00	0.00
ATOM 17836	CG	KCB	1191	66.565	48.904	51.698	0.00	0.00
ATOM 17837	HG2	KCB	1191	65.833	48.125	51.912	0.00	0.00
ATOM 17838	HG3	KCB	1191	67.164	48.519	50.872	0.00	0.00
ATOM 17839	CD	KCB	1191	67.413	49.198	52.971	0.00	0.00
ATOM 17840	HD2	KCB	1191	68.220	49.883	52.710	0.00	0.00
ATOM 17841	HD3	KCB	1191	66.779	49.589	53.766	0.00	0.00
ATOM 17842	CE	KCB	1191	68.095	47.921	53.540	0.00	0.00
ATOM 17843	HE2	KCB	1191	67.337	47.143	53.618	0.00	0.00
ATOM 17844	HE3	KCB	1191	68.920	47.714	52.858	0.00	0.00
ATOM 17845	NZ	KCB	1191	68.539	48.300	54.893	0.00	0.00
ATOM 17846	HZ1	KCB	1191	68.281	49.220	55.220	0.00	0.00
ATOM 17847	CX	KCB	1191	69.075	47.475	55.801	0.00	0.00
ATOM 17848	OX1	KCB	1191	69.502	46.394	55.397	0.00	0.00
ATOM 17849	OX2	KCB	1191	68.965	47.824	56.963	0.00	0.00
ATOM 17850	C	KCB	1191	63.933	48.773	50.204	0.00	0.00
ATOM 17851	O	KCB	1191	62.874	48.936	50.825	0.00	0.00
ATOM 17852	N	ILE	1192	64.279	47.608	49.749	0.00	0.00
ATOM 17853	H	ILE	1192	65.067	47.655	49.120	0.00	0.00
ATOM 17854	CA	ILE	1192	63.611	46.223	49.959	0.00	0.00
ATOM 17855	HA	ILE	1192	62.592	46.405	50.303	0.00	0.00
ATOM 17856	CB	ILE	1192	63.611	45.364	48.687	0.00	0.00
ATOM 17857	HB	ILE	1192	64.622	45.174	48.324	0.00	0.00
ATOM 17858	CG2	ILE	1192	62.841	44.071	48.929	0.00	0.00

ATOM 17859	1HG2	ILE	1192	61.804	44.282	49.193	0.00	0.00
ATOM 17860	2HG2	ILE	1192	62.956	43.593	47.956	0.00	0.00
ATOM 17861	3HG2	ILE	1192	63.314	43.500	49.728	0.00	0.00
ATOM 17862	CG1	ILE	1192	62.800	45.997	47.523	0.00	0.00
ATOM 17863	2HG1	ILE	1192	62.690	45.235	46.752	0.00	0.00
ATOM 17864	3HG1	ILE	1192	61.813	46.212	47.933	0.00	0.00
ATOM 17865	CD1	ILE	1192	63.474	47.061	46.719	0.00	0.00
ATOM 17866	1HD1	ILE	1192	62.755	47.587	46.092	0.00	0.00
ATOM 17867	2HD1	ILE	1192	63.796	47.920	47.308	0.00	0.00
ATOM 17868	3HD1	ILE	1192	64.407	46.674	46.311	0.00	0.00
ATOM 17869	C	ILE	1192	64.266	45.493	51.126	0.00	0.00
ATOM 17870	O	ILE	1192	65.514	45.407	51.159	0.00	0.00
ATOM 17871	N	HIE	1193	63.469	44.998	52.049	0.00	0.00
ATOM 17872	H	HIE	1193	62.486	45.184	51.914	0.00	0.00
ATOM 17873	CA	HIE	1193	63.960	44.444	53.314	0.00	0.00
ATOM 17874	HA	HIE	1193	65.003	44.144	53.211	0.00	0.00
ATOM 17875	CB	HIE	1193	64.018	45.614	54.302	0.00	0.00
ATOM 17876	HB2	HIE	1193	64.280	46.523	53.759	0.00	0.00
ATOM 17877	HB3	HIE	1193	63.037	45.750	54.756	0.00	0.00
ATOM 17878	CG	HIE	1193	64.897	45.447	55.443	0.00	0.00
ATOM 17879	ND1	HIE	1193	65.181	44.299	56.154	0.00	0.00
ATOM 17880	CE1	HIE	1193	66.168	44.556	57.064	0.00	0.00
ATOM 17881	HE1	HIE	1193	66.679	43.905	57.757	0.00	0.00
ATOM 17882	NE2	HIE	1193	66.632	45.800	56.813	0.00	0.00
ATOM 17883	HE2	HIE	1193	67.424	46.268	57.231	0.00	0.00
ATOM 17884	CD2	HIE	1193	65.823	46.395	55.860	0.00	0.00

ATOM 17885	HD2	HIE	1193	65.877	47.397	55.462	0.00	0.00
ATOM 17886	C	HIE	1193	63.126	43.254	53.870	0.00	0.00
ATOM 17887	O	HIE	1193	61.915	43.353	53.745	0.00	0.00
ATOM 17888	N	GLU	1194	63.718	42.226	54.501	0.00	0.00
ATOM 17889	H	GLU	1194	64.690	42.364	54.738	0.00	0.00
ATOM 17890	CA	GLU	1194	62.941	41.077	54.955	0.00	0.00
ATOM 17891	HA	GLU	1194	62.177	40.735	54.257	0.00	0.00
ATOM 17892	CB	GLU	1194	63.877	39.849	55.251	0.00	0.00
ATOM 17893	HB2	GLU	1194	63.173	39.061	55.518	0.00	0.00
ATOM 17894	HB3	GLU	1194	64.534	39.750	54.387	0.00	0.00
ATOM 17895	CG	GLU	1194	64.807	40.136	56.387	0.00	0.00
ATOM 17896	HG2	GLU	1194	65.308	41.091	56.228	0.00	0.00
ATOM 17897	HG3	GLU	1194	64.073	40.196	57.192	0.00	0.00
ATOM 17898	CD	GLU	1194	65.773	38.983	56.667	0.00	0.00
ATOM 17899	OE1	GLU	1194	65.631	37.876	56.147	0.00	0.00
ATOM 17900	OE2	GLU	1194	66.757	39.339	57.349	0.00	0.00
ATOM 17901	C	GLU	1194	62.173	41.517	56.230	0.00	0.00
ATOM 17902	O	GLU	1194	61.143	40.853	56.414	0.00	0.00
ATOM 17903	N	ASP	1195	62.619	42.467	57.026	0.00	0.00
ATOM 17904	H	ASP	1195	63.495	42.885	56.748	0.00	0.00
ATOM 17905	CA	ASP	1195	61.908	42.934	58.248	0.00	0.00
ATOM 17906	HA	ASP	1195	61.572	42.088	58.847	0.00	0.00
ATOM 17907	CB	ASP	1195	62.828	43.763	59.183	0.00	0.00
ATOM 17908	HB2	ASP	1195	63.520	44.467	58.720	0.00	0.00
ATOM 17909	HB3	ASP	1195	62.208	44.279	59.916	0.00	0.00
ATOM 17910	CG	ASP	1195	63.821	42.928	59.970	0.00	0.00

ATOM	17911	OD1	ASP	1195	65.055	42.956	59.583	0.00	0.00
ATOM	17912	OD2	ASP	1195	63.442	42.162	60.903	0.00	0.00
ATOM	17913	C	ASP	1195	60.564	43.614	57.836	0.00	0.00
ATOM	17914	O	ASP	1195	59.693	43.667	58.677	0.00	0.00
ATOM	17915	N	TRP	1196	60.470	44.178	56.570	0.00	0.00
ATOM	17916	H	TRP	1196	61.268	43.963	55.989	0.00	0.00
ATOM	17917	CA	TRP	1196	59.253	44.875	56.029	0.00	0.00
ATOM	17918	HA	TRP	1196	58.510	44.903	56.827	0.00	0.00
ATOM	17919	CB	TRP	1196	59.583	46.293	55.552	0.00	0.00
ATOM	17920	HB2	TRP	1196	60.551	46.326	55.051	0.00	0.00
ATOM	17921	HB3	TRP	1196	58.946	46.534	54.701	0.00	0.00
ATOM	17922	CG	TRP	1196	59.509	47.476	56.531	0.00	0.00
ATOM	17923	CD1	TRP	1196	60.444	48.459	56.665	0.00	0.00
ATOM	17924	HD1	TRP	1196	61.282	48.499	55.986	0.00	0.00
ATOM	17925	NE1	TRP	1196	59.989	49.479	57.527	0.00	0.00
ATOM	17926	HE1	TRP	1196	60.422	50.363	57.751	0.00	0.00
ATOM	17927	CE2	TRP	1196	58.643	49.203	57.942	0.00	0.00
ATOM	17928	CZ2	TRP	1196	57.725	49.923	58.651	0.00	0.00
ATOM	17929	HZ2	TRP	1196	58.028	50.804	59.197	0.00	0.00
ATOM	17930	CH2	TRP	1196	56.427	49.364	58.775	0.00	0.00
ATOM	17931	HH2	TRP	1196	55.645	49.776	59.397	0.00	0.00
ATOM	17932	CZ3	TRP	1196	56.088	48.211	58.116	0.00	0.00
ATOM	17933	HZ3	TRP	1196	55.064	47.885	58.219	0.00	0.00
ATOM	17934	CE3	TRP	1196	57.015	47.486	57.296	0.00	0.00
ATOM	17935	HE3	TRP	1196	56.784	46.542	56.825	0.00	0.00
ATOM	17936	CD2	TRP	1196	58.346	47.960	57.288	0.00	0.00

ATOM 17937	C	TRP	1196	58.498	44.126	54.868	0.00	0.00
ATOM 17938	O	TRP	1196	57.447	44.574	54.460	0.00	0.00
ATOM 17939	N	GLY	1197	59.105	43.089	54.235	0.00	0.00
ATOM 17940	H	GLY	1197	60.114	43.035	54.230	0.00	0.00
ATOM 17941	CA	GLY	1197	58.301	42.305	53.245	0.00	0.00
ATOM 17942	HA2	GLY	1197	57.263	42.387	53.568	0.00	0.00
ATOM 17943	HA3	GLY	1197	58.329	42.926	52.350	0.00	0.00
ATOM 17944	C	GLY	1197	58.686	40.876	52.998	0.00	0.00
ATOM 17945	O	GLY	1197	59.866	40.550	52.918	0.00	0.00
ATOM 17946	N	ALA	1198	57.702	40.025	52.604	0.00	0.00
ATOM 17947	H	ALA	1198	56.791	40.433	52.759	0.00	0.00
ATOM 17948	CA	ALA	1198	57.753	38.598	52.291	0.00	0.00
ATOM 17949	HA	ALA	1198	58.674	38.178	52.695	0.00	0.00
ATOM 17950	CB	ALA	1198	56.585	38.000	53.061	0.00	0.00
ATOM 17951	HB1	ALA	1198	55.607	38.311	52.693	0.00	0.00
ATOM 17952	HB2	ALA	1198	56.664	36.914	53.031	0.00	0.00
ATOM 17953	HB3	ALA	1198	56.685	38.387	54.075	0.00	0.00
ATOM 17954	C	ALA	1198	57.662	38.194	50.789	0.00	0.00
ATOM 17955	O	ALA	1198	57.829	36.994	50.415	0.00	0.00
ATOM 17956	N	THR	1199	57.519	39.154	49.905	0.00	0.00
ATOM 17957	H	THR	1199	57.481	40.079	50.309	0.00	0.00
ATOM 17958	CA	THR	1199	57.095	38.927	48.521	0.00	0.00
ATOM 17959	HA	THR	1199	57.008	37.848	48.394	0.00	0.00
ATOM 17960	CB	THR	1199	55.741	39.579	48.072	0.00	0.00
ATOM 17961	HB	THR	1199	55.378	38.895	47.305	0.00	0.00
ATOM 17962	CG2	THR	1199	54.714	39.720	49.183	0.00	0.00

ATOM 17963	1HG2	THR	1199	54.702	38.773	49.721	0.00	0.00
ATOM 17964	2HG2	THR	1199	55.119	40.492	49.837	0.00	0.00
ATOM 17965	3HG2	THR	1199	53.734	40.007	48.802	0.00	0.00
ATOM 17966	OG1	THR	1199	55.884	40.737	47.342	0.00	0.00
ATOM 17967	HG1	THR	1199	55.310	41.396	47.741	0.00	0.00
ATOM 17968	C	THR	1199	58.221	39.376	47.551	0.00	0.00
ATOM 17969	O	THR	1199	59.004	40.323	47.866	0.00	0.00
ATOM 17970	N	PRO	1200	58.209	38.769	46.297	0.00	0.00
ATOM 17971	CD	PRO	1200	57.332	37.666	45.842	0.00	0.00
ATOM 17972	HD2	PRO	1200	57.464	36.749	46.416	0.00	0.00
ATOM 17973	HD3	PRO	1200	56.308	38.039	45.842	0.00	0.00
ATOM 17974	CG	PRO	1200	57.705	37.407	44.402	0.00	0.00
ATOM 17975	HG2	PRO	1200	57.631	36.377	44.050	0.00	0.00
ATOM 17976	HG3	PRO	1200	56.948	37.914	43.804	0.00	0.00
ATOM 17977	CB	PRO	1200	59.158	37.935	44.328	0.00	0.00
ATOM 17978	HB2	PRO	1200	59.885	37.214	44.702	0.00	0.00
ATOM 17979	HB3	PRO	1200	59.501	38.235	43.337	0.00	0.00
ATOM 17980	CA	PRO	1200	59.176	39.182	45.189	0.00	0.00
ATOM 17981	HA	PRO	1200	60.201	39.416	45.476	0.00	0.00
ATOM 17982	C	PRO	1200	58.685	40.424	44.477	0.00	0.00
ATOM 17983	O	PRO	1200	59.408	41.155	43.764	0.00	0.00
ATOM 17984	N	ALA	1201	57.408	40.791	44.715	0.00	0.00
ATOM 17985	H	ALA	1201	56.809	40.413	45.436	0.00	0.00
ATOM 17986	CA	ALA	1201	56.788	41.904	43.970	0.00	0.00
ATOM 17987	HA	ALA	1201	57.087	41.660	42.951	0.00	0.00
ATOM 17988	CB	ALA	1201	55.266	41.799	43.922	0.00	0.00

ATOM	17989	HB1	ALA	1201	54.958	40.803	43.604	0.00	0.00
ATOM	17990	HB2	ALA	1201	54.841	42.060	44.891	0.00	0.00
ATOM	17991	HB3	ALA	1201	54.967	42.584	43.227	0.00	0.00
ATOM	17992	C	ALA	1201	57.185	43.272	44.467	0.00	0.00
ATOM	17993	O	ALA	1201	56.896	44.226	43.754	0.00	0.00
ATOM	17994	N	ALA	1202	57.692	43.402	45.682	0.00	0.00
ATOM	17995	H	ALA	1202	57.777	42.529	46.181	0.00	0.00
ATOM	17996	CA	ALA	1202	58.247	44.663	46.194	0.00	0.00
ATOM	17997	HA	ALA	1202	57.534	45.488	46.176	0.00	0.00
ATOM	17998	CB	ALA	1202	58.545	44.632	47.701	0.00	0.00
ATOM	17999	HB1	ALA	1202	59.108	45.503	48.037	0.00	0.00
ATOM	18000	HB2	ALA	1202	57.607	44.679	48.255	0.00	0.00
ATOM	18001	HB3	ALA	1202	59.037	43.686	47.929	0.00	0.00
ATOM	18002	C	ALA	1202	59.499	45.010	45.355	0.00	0.00
ATOM	18003	O	ALA	1202	59.570	46.058	44.823	0.00	0.00
ATOM	18004	N	ILE	1203	60.336	43.945	45.097	0.00	0.00
ATOM	18005	H	ILE	1203	60.247	43.044	45.545	0.00	0.00
ATOM	18006	CA	ILE	1203	61.498	44.129	44.139	0.00	0.00
ATOM	18007	HA	ILE	1203	62.038	44.948	44.613	0.00	0.00
ATOM	18008	CB	ILE	1203	62.325	42.792	43.992	0.00	0.00
ATOM	18009	HB	ILE	1203	61.941	42.190	43.168	0.00	0.00
ATOM	18010	CG2	ILE	1203	63.696	43.108	43.540	0.00	0.00
ATOM	18011	1HG2	ILE	1203	64.195	43.705	44.304	0.00	0.00
ATOM	18012	2HG2	ILE	1203	64.126	42.133	43.313	0.00	0.00
ATOM	18013	3HG2	ILE	1203	63.668	43.593	42.565	0.00	0.00
ATOM	18014	CG1	ILE	1203	62.425	41.875	45.244	0.00	0.00



ATOM 18015	2HG1	ILE	1203	63.185	42.307	45.896	0.00	0.00
ATOM 18016	3HG1	ILE	1203	61.447	41.822	45.723	0.00	0.00
ATOM 18017	CD1	ILE	1203	62.966	40.398	44.892	0.00	0.00
ATOM 18018	1HD1	ILE	1203	62.174	39.780	44.470	0.00	0.00
ATOM 18019	2HD1	ILE	1203	63.862	40.438	44.273	0.00	0.00
ATOM 18020	3HD1	ILE	1203	63.367	40.001	45.825	0.00	0.00
ATOM 18021	C	ILE	1203	61.006	44.615	42.738	0.00	0.00
ATOM 18022	O	ILE	1203	61.413	45.713	42.259	0.00	0.00
ATOM 18023	N	ASP	1204	60.118	43.956	42.039	0.00	0.00
ATOM 18024	H	ASP	1204	59.898	43.020	42.346	0.00	0.00
ATOM 18025	CA	ASP	1204	59.828	44.308	40.635	0.00	0.00
ATOM 18026	HA	ASP	1204	60.781	44.411	40.116	0.00	0.00
ATOM 18027	CB	ASP	1204	59.000	43.153	40.003	0.00	0.00
ATOM 18028	HB2	ASP	1204	59.624	42.273	39.848	0.00	0.00
ATOM 18029	HB3	ASP	1204	58.126	42.904	40.605	0.00	0.00
ATOM 18030	CG	ASP	1204	58.401	43.612	38.634	0.00	0.00
ATOM 18031	OD1	ASP	1204	59.278	43.716	37.784	0.00	0.00
ATOM 18032	OD2	ASP	1204	57.232	43.641	38.355	0.00	0.00
ATOM 18033	C	ASP	1204	59.092	45.588	40.455	0.00	0.00
ATOM 18034	O	ASP	1204	59.222	46.370	39.498	0.00	0.00
ATOM 18035	N	CYS	1205	58.179	45.869	41.368	0.00	0.00
ATOM 18036	H	CYS	1205	58.005	45.215	42.118	0.00	0.00
ATOM 18037	CA	CYS	1205	57.485	47.201	41.695	0.00	0.00
ATOM 18038	HA	CYS	1205	56.903	47.496	40.823	0.00	0.00
ATOM 18039	CB	CYS	1205	56.416	47.038	42.758	0.00	0.00
ATOM 18040	HB2	CYS	1205	56.770	46.564	43.673	0.00	0.00

ATOM	18041	HB3	CYS	1205	56.011	48.003	43.063	0.00	0.00
ATOM	18042	SG	CYS	1205	55.013	45.996	42.198	0.00	0.00
ATOM	18043	HG	CYS	1205	55.666	44.898	42.591	0.00	0.00
ATOM	18044	C	CYS	1205	58.340	48.364	41.984	0.00	0.00
ATOM	18045	O	CYS	1205	58.203	49.453	41.441	0.00	0.00
ATOM	18046	N	ALA	1206	59.287	48.210	42.926	0.00	0.00
ATOM	18047	H	ALA	1206	59.454	47.301	43.332	0.00	0.00
ATOM	18048	CA	ALA	1206	60.315	49.204	43.182	0.00	0.00
ATOM	18049	HA	ALA	1206	59.764	50.123	43.382	0.00	0.00
ATOM	18050	CB	ALA	1206	61.102	48.787	44.418	0.00	0.00
ATOM	18051	HB1	ALA	1206	60.347	48.536	45.162	0.00	0.00
ATOM	18052	HB2	ALA	1206	61.787	48.025	44.045	0.00	0.00
ATOM	18053	HB3	ALA	1206	61.753	49.621	44.678	0.00	0.00
ATOM	18054	C	ALA	1206	61.138	49.503	41.913	0.00	0.00
ATOM	18055	O	ALA	1206	61.260	50.701	41.536	0.00	0.00
ATOM	18056	N	LEU	1207	61.425	48.538	41.109	0.00	0.00
ATOM	18057	H	LEU	1207	61.294	47.571	41.370	0.00	0.00
ATOM	18058	CA	LEU	1207	62.136	48.771	39.865	0.00	0.00
ATOM	18059	HA	LEU	1207	62.896	49.544	39.981	0.00	0.00
ATOM	18060	CB	LEU	1207	62.916	47.522	39.478	0.00	0.00
ATOM	18061	HB2	LEU	1207	62.254	46.657	39.452	0.00	0.00
ATOM	18062	HB3	LEU	1207	63.470	47.665	38.551	0.00	0.00
ATOM	18063	CG	LEU	1207	64.051	47.035	40.407	0.00	0.00
ATOM	18064	HG	LEU	1207	63.723	47.147	41.441	0.00	0.00
ATOM	18065	CD1	LEU	1207	64.404	45.608	40.055	0.00	0.00
ATOM	18066	1HD1	LEU	1207	65.359	45.273	40.461	0.00	0.00

ATOM 18067	2HD1	LEU	1207	63.541	45.101	40.486	0.00	0.00
ATOM 18068	3HD1	LEU	1207	64.237	45.574	38.978	0.00	0.00
ATOM 18069	CD2	LEU	1207	65.353	47.825	40.248	0.00	0.00
ATOM 18070	1HD2	LEU	1207	65.179	48.856	40.556	0.00	0.00
ATOM 18071	2HD2	LEU	1207	66.110	47.395	40.904	0.00	0.00
ATOM 18072	3HD2	LEU	1207	65.752	47.850	39.234	0.00	0.00
ATOM 18073	C	LEU	1207	61.157	49.249	38.738	0.00	0.00
ATOM 18074	O	LEU	1207	61.569	49.977	37.878	0.00	0.00
ATOM 18075	N	THR	1208	59.849	49.193	38.923	0.00	0.00
ATOM 18076	H	THR	1208	59.541	48.591	39.673	0.00	0.00
ATOM 18077	CA	THR	1208	58.852	49.686	37.941	0.00	0.00
ATOM 18078	HA	THR	1208	59.251	49.614	36.930	0.00	0.00
ATOM 18079	CB	THR	1208	57.526	48.856	38.004	0.00	0.00
ATOM 18080	HB	THR	1208	57.244	48.595	39.025	0.00	0.00
ATOM 18081	CG2	THR	1208	56.309	49.626	37.411	0.00	0.00
ATOM 18082	1HG2	THR	1208	55.413	49.005	37.441	0.00	0.00
ATOM 18083	2HG2	THR	1208	56.209	50.573	37.942	0.00	0.00
ATOM 18084	3HG2	THR	1208	56.586	49.899	36.393	0.00	0.00
ATOM 18085	OG1	THR	1208	57.887	47.615	37.429	0.00	0.00
ATOM 18086	HG1	THR	1208	58.269	47.015	38.074	0.00	0.00
ATOM 18087	C	THR	1208	58.590	51.197	38.048	0.00	0.00
ATOM 18088	O	THR	1208	58.408	51.908	37.069	0.00	0.00
ATOM 18089	N	VAL	1209	58.803	51.658	39.257	0.00	0.00
ATOM 18090	H	VAL	1209	58.849	50.936	39.961	0.00	0.00
ATOM 18091	CA	VAL	1209	58.859	53.113	39.545	0.00	0.00
ATOM 18092	HA	VAL	1209	58.271	53.669	38.814	0.00	0.00

ATOM 18093	CB VAL 1209	58.363	53.508	40.955	0.00	0.00
ATOM 18094	HB VAL 1209	59.058	53.015	41.634	0.00	0.00
ATOM 18095	CG1 VAL 1209	58.412	55.026	41.289	0.00	0.00
ATOM 18096	1HG1 VAL 1209	58.022	55.168	42.296	0.00	0.00
ATOM 18097	2HG1 VAL 1209	59.455	55.342	41.313	0.00	0.00
ATOM 18098	3HG1 VAL 1209	57.880	55.663	40.582	0.00	0.00
ATOM 18099	CG2 VAL 1209	57.003	52.923	41.312	0.00	0.00
ATOM 18100	1HG2 VAL 1209	56.937	51.859	41.081	0.00	0.00
ATOM 18101	2HG2 VAL 1209	56.798	53.097	42.368	0.00	0.00
ATOM 18102	3HG2 VAL 1209	56.234	53.411	40.712	0.00	0.00
ATOM 18103	C VAL 1209	60.281	53.686	39.361	0.00	0.00
ATOM 18104	O VAL 1209	60.350	54.783	38.804	0.00	0.00
ATOM 18105	N ALA 1210	61.386	52.919	39.546	0.00	0.00
ATOM 18106	H ALA 1210	61.329	52.025	40.011	0.00	0.00
ATOM 18107	CA ALA 1210	62.692	53.345	39.064	0.00	0.00
ATOM 18108	HA ALA 1210	63.074	54.256	39.525	0.00	0.00
ATOM 18109	CB ALA 1210	63.767	52.240	39.421	0.00	0.00
ATOM 18110	HB1 ALA 1210	64.750	52.712	39.393	0.00	0.00
ATOM 18111	HB2 ALA 1210	63.621	51.852	40.429	0.00	0.00
ATOM 18112	HB3 ALA 1210	63.820	51.374	38.761	0.00	0.00
ATOM 18113	C ALA 1210	62.735	53.652	37.516	0.00	0.00
ATOM 18114	O ALA 1210	63.340	54.651	37.140	0.00	0.00
ATOM 18115	N ASP 1211	62.074	52.816	36.728	0.00	0.00
ATOM 18116	H ASP 1211	61.819	51.934	37.150	0.00	0.00
ATOM 18117	CA ASP 1211	61.859	52.951	35.272	0.00	0.00
ATOM 18118	HA ASP 1211	62.827	53.065	34.783	0.00	0.00

ATOM	18119	CB	ASP	1211	61.162	51.697	34.682	0.00	0.00
ATOM	18120	HB2	ASP	1211	61.622	50.821	35.140	0.00	0.00
ATOM	18121	HB3	ASP	1211	60.148	51.647	35.078	0.00	0.00
ATOM	18122	CG	ASP	1211	61.284	51.561	33.153	0.00	0.00
ATOM	18123	OD1	ASP	1211	62.462	51.444	32.698	0.00	0.00
ATOM	18124	OD2	ASP	1211	60.248	51.524	32.403	0.00	0.00
ATOM	18125	C	ASP	1211	61.044	54.248	34.991	0.00	0.00
ATOM	18126	O	ASP	1211	61.200	54.961	33.980	0.00	0.00
ATOM	18127	N	GLU	1212	60.090	54.572	35.853	0.00	0.00
ATOM	18128	H	GLU	1212	60.026	54.006	36.688	0.00	0.00
ATOM	18129	CA	GLU	1212	59.129	55.664	35.635	0.00	0.00
ATOM	18130	HA	GLU	1212	58.930	55.788	34.570	0.00	0.00
ATOM	18131	CB	GLU	1212	57.777	55.372	36.347	0.00	0.00
ATOM	18132	HB2	GLU	1212	57.519	54.314	36.387	0.00	0.00
ATOM	18133	HB3	GLU	1212	57.904	55.593	37.407	0.00	0.00
ATOM	18134	CG	GLU	1212	56.687	56.334	35.922	0.00	0.00
ATOM	18135	HG2	GLU	1212	56.968	57.379	36.051	0.00	0.00
ATOM	18136	HG3	GLU	1212	56.515	56.227	34.851	0.00	0.00
ATOM	18137	CD	GLU	1212	55.477	56.026	36.794	0.00	0.00
ATOM	18138	OE1	GLU	1212	55.011	56.919	37.480	0.00	0.00
ATOM	18139	OE2	GLU	1212	54.815	54.948	36.620	0.00	0.00
ATOM	18140	C	GLU	1212	59.634	57.024	36.211	0.00	0.00
ATOM	18141	O	GLU	1212	59.368	58.061	35.660	0.00	0.00
ATOM	18142	N	MET	1213	60.428	57.101	37.270	0.00	0.00
ATOM	18143	H	MET	1213	60.634	56.230	37.737	0.00	0.00
ATOM	18144	CA	MET	1213	60.825	58.319	38.003	0.00	0.00

ATOM	18145	HA	MET	1213	60.428	59.161	37.436	0.00	0.00
ATOM	18146	CB	MET	1213	60.174	58.261	39.391	0.00	0.00
ATOM	18147	HB2	MET	1213	60.266	57.267	39.830	0.00	0.00
ATOM	18148	HB3	MET	1213	60.705	58.891	40.105	0.00	0.00
ATOM	18149	CG	MET	1213	58.764	58.731	39.267	0.00	0.00
ATOM	18150	HG2	MET	1213	58.604	59.645	38.695	0.00	0.00
ATOM	18151	HG3	MET	1213	58.349	57.939	38.643	0.00	0.00
ATOM	18152	SD	MET	1213	57.824	59.007	40.769	0.00	0.00
ATOM	18153	CE	MET	1213	56.181	59.248	40.066	0.00	0.00
ATOM	18154	HE1	MET	1213	55.818	58.321	39.623	0.00	0.00
ATOM	18155	HE2	MET	1213	55.580	59.751	40.824	0.00	0.00
ATOM	18156	HE3	MET	1213	56.287	59.925	39.219	0.00	0.00
ATOM	18157	C	MET	1213	62.314	58.527	38.134	0.00	0.00
ATOM	18158	O	MET	1213	62.685	59.606	38.565	0.00	0.00
ATOM	18159	N	ASP	1214	63.100	57.553	37.659	0.00	0.00
ATOM	18160	H	ASP	1214	62.625	56.749	37.274	0.00	0.00
ATOM	18161	CA	ASP	1214	64.511	57.739	37.690	0.00	0.00
ATOM	18162	HA	ASP	1214	65.023	56.855	37.310	0.00	0.00
ATOM	18163	CB	ASP	1214	64.918	58.861	36.663	0.00	0.00
ATOM	18164	HB2	ASP	1214	64.117	58.972	35.932	0.00	0.00
ATOM	18165	HB3	ASP	1214	65.108	59.800	37.184	0.00	0.00
ATOM	18166	CG	ASP	1214	66.229	58.512	35.716	0.00	0.00
ATOM	18167	OD1	ASP	1214	67.403	58.738	36.201	0.00	0.00
ATOM	18168	OD2	ASP	1214	66.108	58.060	34.516	0.00	0.00
ATOM	18169	C	ASP	1214	65.235	57.896	39.014	0.00	0.00
ATOM	18170	O	ASP	1214	66.178	58.685	39.184	0.00	0.00

ATOM	18171	N	ILE	1215	64.803	57.054	39.976	0.00	0.00
ATOM	18172	H	ILE	1215	64.029	56.438	39.771	0.00	0.00
ATOM	18173	CA	ILE	1215	65.380	56.896	41.368	0.00	0.00
ATOM	18174	HA	ILE	1215	66.145	57.670	41.425	0.00	0.00
ATOM	18175	CB	ILE	1215	64.270	57.256	42.325	0.00	0.00
ATOM	18176	HB	ILE	1215	64.686	56.999	43.300	0.00	0.00
ATOM	18177	CG2	ILE	1215	64.035	58.795	42.472	0.00	0.00
ATOM	18178	1HG2	ILE	1215	63.534	59.090	41.550	0.00	0.00
ATOM	18179	2HG2	ILE	1215	63.412	58.973	43.350	0.00	0.00
ATOM	18180	3HG2	ILE	1215	65.035	59.226	42.522	0.00	0.00
ATOM	18181	CG1	ILE	1215	62.953	56.454	42.134	0.00	0.00
ATOM	18182	2HG1	ILE	1215	62.038	57.026	42.289	0.00	0.00
ATOM	18183	3HG1	ILE	1215	62.843	56.034	41.134	0.00	0.00
ATOM	18184	CD1	ILE	1215	62.822	55.333	43.195	0.00	0.00
ATOM	18185	1HD1	ILE	1215	63.521	54.508	43.055	0.00	0.00
ATOM	18186	2HD1	ILE	1215	62.972	55.788	44.174	0.00	0.00
ATOM	18187	3HD1	ILE	1215	61.786	55.006	43.285	0.00	0.00
ATOM	18188	C	ILE	1215	66.118	55.585	41.522	0.00	0.00
ATOM	18189	O	ILE	1215	65.642	54.601	40.997	0.00	0.00
ATOM	18190	N	GLN	1216	67.195	55.446	42.392	0.00	0.00
ATOM	18191	H	GLN	1216	67.381	56.302	42.895	0.00	0.00
ATOM	18192	CA	GLN	1216	67.833	54.198	42.688	0.00	0.00
ATOM	18193	HA	GLN	1216	68.048	53.706	41.740	0.00	0.00
ATOM	18194	CB	GLN	1216	69.235	54.429	43.417	0.00	0.00
ATOM	18195	HB2	GLN	1216	69.669	55.253	42.851	0.00	0.00
ATOM	18196	HB3	GLN	1216	68.994	54.842	44.396	0.00	0.00

ATOM	18197	CG	GLN	1216	70.174	53.185	43.543	0.00	0.00
ATOM	18198	HG2	GLN	1216	71.099	53.510	44.020	0.00	0.00
ATOM	18199	HG3	GLN	1216	69.693	52.513	44.254	0.00	0.00
ATOM	18200	CD	GLN	1216	70.372	52.568	42.129	0.00	0.00
ATOM	18201	OE1	GLN	1216	69.924	51.489	41.783	0.00	0.00
ATOM	18202	NE2	GLN	1216	71.018	53.194	41.169	0.00	0.00
ATOM	18203	1HE2	GLN	1216	71.446	52.612	40.463	0.00	0.00
ATOM	18204	2HE2	GLN	1216	71.460	54.067	41.418	0.00	0.00
ATOM	18205	C	GLN	1216	67.038	53.212	43.524	0.00	0.00
ATOM	18206	O	GLN	1216	66.107	53.635	44.131	0.00	0.00
ATOM	18207	N	VAL	1217	67.236	51.913	43.432	0.00	0.00
ATOM	18208	H	VAL	1217	67.832	51.483	42.740	0.00	0.00
ATOM	18209	CA	VAL	1217	66.604	50.969	44.338	0.00	0.00
ATOM	18210	HA	VAL	1217	66.030	51.466	45.119	0.00	0.00
ATOM	18211	CB	VAL	1217	65.652	50.108	43.554	0.00	0.00
ATOM	18212	HB	VAL	1217	66.285	49.693	42.770	0.00	0.00
ATOM	18213	CG1	VAL	1217	64.983	49.012	44.349	0.00	0.00
ATOM	18214	1HG1	VAL	1217	64.325	49.435	45.109	0.00	0.00
ATOM	18215	2HG1	VAL	1217	64.186	48.461	43.851	0.00	0.00
ATOM	18216	3HG1	VAL	1217	65.724	48.307	44.726	0.00	0.00
ATOM	18217	CG2	VAL	1217	64.514	50.933	42.911	0.00	0.00
ATOM	18218	1HG2	VAL	1217	63.878	51.502	43.589	0.00	0.00
ATOM	18219	2HG2	VAL	1217	65.034	51.673	42.303	0.00	0.00
ATOM	18220	3HG2	VAL	1217	63.927	50.339	42.211	0.00	0.00
ATOM	18221	C	VAL	1217	67.605	50.114	45.141	0.00	0.00
ATOM	18222	O	VAL	1217	68.669	49.788	44.568	0.00	0.00



ATOM	18223	N	ALA	1218	67.324	49.796	46.433	0.00	0.00
ATOM	18224	H	ALA	1218	66.436	50.081	46.820	0.00	0.00
ATOM	18225	CA	ALA	1218	68.255	48.979	47.212	0.00	0.00
ATOM	18226	HA	ALA	1218	68.993	48.556	46.529	0.00	0.00
ATOM	18227	CB	ALA	1218	68.978	49.929	48.212	0.00	0.00
ATOM	18228	HB1	ALA	1218	69.145	50.938	47.834	0.00	0.00
ATOM	18229	HB2	ALA	1218	68.373	50.056	49.110	0.00	0.00
ATOM	18230	HB3	ALA	1218	69.959	49.552	48.498	0.00	0.00
ATOM	18231	C	ALA	1218	67.600	47.730	47.866	0.00	0.00
ATOM	18232	O	ALA	1218	66.379	47.614	47.877	0.00	0.00
ATOM	18233	N	LEU	1219	68.455	46.784	48.336	0.00	0.00
ATOM	18234	H	LEU	1219	69.426	47.059	48.369	0.00	0.00
ATOM	18235	CA	LEU	1219	68.044	45.447	48.807	0.00	0.00
ATOM	18236	HA	LEU	1219	66.982	45.425	49.052	0.00	0.00
ATOM	18237	CB	LEU	1219	68.206	44.533	47.555	0.00	0.00
ATOM	18238	HB2	LEU	1219	67.591	44.782	46.690	0.00	0.00
ATOM	18239	HB3	LEU	1219	69.247	44.620	47.243	0.00	0.00
ATOM	18240	CG	LEU	1219	67.956	43.108	47.829	0.00	0.00
ATOM	18241	HG	LEU	1219	68.608	42.795	48.644	0.00	0.00
ATOM	18242	CD1	LEU	1219	66.542	42.785	48.342	0.00	0.00
ATOM	18243	1HD1	LEU	1219	66.447	41.708	48.203	0.00	0.00
ATOM	18244	2HD1	LEU	1219	66.208	43.113	49.326	0.00	0.00
ATOM	18245	3HD1	LEU	1219	65.865	43.115	47.553	0.00	0.00
ATOM	18246	CD2	LEU	1219	68.292	42.287	46.546	0.00	0.00
ATOM	18247	1HD2	LEU	1219	69.352	42.396	46.320	0.00	0.00
ATOM	18248	2HD2	LEU	1219	68.007	41.246	46.702	0.00	0.00

ATOM	18249	3HD2	LEU	1219	67.644	42.774	45.816	0.00	0.00
ATOM	18250	C	LEU	1219	68.937	45.097	50.045	0.00	0.00
ATOM	18251	O	LEU	1219	70.169	44.806	49.858	0.00	0.00
ATOM	18252	N	H11	1220	68.251	44.792	51.200	0.00	0.00
ATOM	18253	H	H11	1220	67.253	44.903	51.092	0.00	0.00
ATOM	18254	CA	H11	1220	68.591	43.688	52.111	0.00	0.00
ATOM	18255	HA	H11	1220	69.654	43.447	52.114	0.00	0.00
ATOM	18256	CB	H11	1220	68.333	44.093	53.609	0.00	0.00
ATOM	18257	HB2	H11	1220	68.903	45.008	53.766	0.00	0.00
ATOM	18258	HB3	H11	1220	67.318	44.483	53.673	0.00	0.00
ATOM	18259	CG	H11	1220	68.506	43.113	54.754	0.00	0.00
ATOM	18260	ND1	H11	1220	69.137	43.470	55.944	0.00	0.00
ATOM	18261	CE1	H11	1220	68.960	42.510	56.817	0.00	0.00
ATOM	18262	HE1	H11	1220	69.266	42.668	57.841	0.00	0.00
ATOM	18263	NE2	H11	1220	68.232	41.502	56.184	0.00	0.00
ATOM	18264	HE2	H11	1220	67.897	40.679	56.664	0.00	0.00
ATOM	18265	CD2	H11	1220	67.821	41.986	54.977	0.00	0.00
ATOM	18266	HD2	H11	1220	67.090	41.589	54.288	0.00	0.00
ATOM	18267	C	H11	1220	67.725	42.415	51.788	0.00	0.00
ATOM	18268	O	H11	1220	66.562	42.329	52.043	0.00	0.00
ATOM	18269	N	SER	1221	68.298	41.399	51.150	0.00	0.00
ATOM	18270	H	SER	1221	69.264	41.631	50.963	0.00	0.00
ATOM	18271	CA	SER	1221	67.834	40.041	50.772	0.00	0.00
ATOM	18272	HA	SER	1221	67.090	40.296	50.017	0.00	0.00
ATOM	18273	CB	SER	1221	69.005	39.345	50.012	0.00	0.00
ATOM	18274	HB2	SER	1221	69.307	39.949	49.156	0.00	0.00

ATOM	18275	HB3	SER	1221	69.951	39.254	50.546	0.00	0.00
ATOM	18276	OG	SER	1221	68.660	37.990	49.689	0.00	0.00
ATOM	18277	HG	SER	1221	67.850	38.026	49.175	0.00	0.00
ATOM	18278	C	SER	1221	67.275	39.208	51.925	0.00	0.00
ATOM	18279	O	SER	1221	67.895	39.260	53.008	0.00	0.00
ATOM	18280	N	ASP	1222	66.172	38.453	51.762	0.00	0.00
ATOM	18281	H	ASP	1222	65.784	38.340	50.836	0.00	0.00
ATOM	18282	CA	ASP	1222	65.709	37.512	52.801	0.00	0.00
ATOM	18283	HA	ASP	1222	65.651	38.148	53.684	0.00	0.00
ATOM	18284	CB	ASP	1222	64.264	36.986	52.594	0.00	0.00
ATOM	18285	HB2	ASP	1222	63.887	36.644	53.558	0.00	0.00
ATOM	18286	HB3	ASP	1222	63.711	37.825	52.174	0.00	0.00
ATOM	18287	CG	ASP	1222	64.176	35.858	51.543	0.00	0.00
ATOM	18288	OD1	ASP	1222	64.089	34.671	51.930	0.00	0.00
ATOM	18289	OD2	ASP	1222	64.226	36.216	50.315	0.00	0.00
ATOM	18290	C	ASP	1222	66.737	36.411	53.121	0.00	0.00
ATOM	18291	O	ASP	1222	67.447	35.922	52.261	0.00	0.00
ATOM	18292	N	THR	1223	66.664	36.106	54.409	0.00	0.00
ATOM	18293	H	THR	1223	66.022	36.612	55.002	0.00	0.00
ATOM	18294	CA	THR	1223	67.349	34.950	55.036	0.00	0.00
ATOM	18295	HA	THR	1223	67.960	34.562	54.221	0.00	0.00
ATOM	18296	CB	THR	1223	68.191	35.343	56.272	0.00	0.00
ATOM	18297	HB	THR	1223	68.731	34.506	56.716	0.00	0.00
ATOM	18298	CG2	THR	1223	69.252	36.501	56.186	0.00	0.00
ATOM	18299	1HG2	THR	1223	68.751	37.348	55.717	0.00	0.00
ATOM	18300	2HG2	THR	1223	69.497	36.804	57.204	0.00	0.00

ATOM	18301	3HG2	THR	1223	70.141	36.177	55.644	0.00	0.00
ATOM	18302	OG1	THR	1223	67.223	35.772	57.177	0.00	0.00
ATOM	18303	HG1	THR	1223	66.927	36.645	56.909	0.00	0.00
ATOM	18304	C	THR	1223	66.353	33.856	55.380	0.00	0.00
ATOM	18305	O	THR	1223	66.796	32.892	55.977	0.00	0.00
ATOM	18306	N	LEU	1224	65.176	33.974	54.978	0.00	0.00
ATOM	18307	H	LEU	1224	64.893	34.682	54.315	0.00	0.00
ATOM	18308	CA	LEU	1224	64.081	33.058	55.426	0.00	0.00
ATOM	18309	HA	LEU	1224	64.369	32.580	56.362	0.00	0.00
ATOM	18310	CB	LEU	1224	62.893	33.972	55.704	0.00	0.00
ATOM	18311	HB2	LEU	1224	62.711	34.585	54.821	0.00	0.00
ATOM	18312	HB3	LEU	1224	62.124	33.221	55.884	0.00	0.00
ATOM	18313	CG	LEU	1224	63.181	34.948	56.847	0.00	0.00
ATOM	18314	HG	LEU	1224	63.918	35.682	56.523	0.00	0.00
ATOM	18315	CD1	LEU	1224	61.931	35.743	57.120	0.00	0.00
ATOM	18316	1HD1	LEU	1224	61.244	34.949	57.413	0.00	0.00
ATOM	18317	2HD1	LEU	1224	62.205	36.356	57.978	0.00	0.00
ATOM	18318	3HD1	LEU	1224	61.709	36.521	56.389	0.00	0.00
ATOM	18319	CD2	LEU	1224	63.716	34.202	58.047	0.00	0.00
ATOM	18320	1HD2	LEU	1224	63.763	34.802	58.956	0.00	0.00
ATOM	18321	2HD2	LEU	1224	63.083	33.333	58.224	0.00	0.00
ATOM	18322	3HD2	LEU	1224	64.791	34.041	57.971	0.00	0.00
ATOM	18323	C	LEU	1224	63.777	32.034	54.427	0.00	0.00
ATOM	18324	O	LEU	1224	63.240	30.995	54.823	0.00	0.00
ATOM	18325	N	ASN	1225	64.122	32.198	53.164	0.00	0.00
ATOM	18326	H	ASN	1225	64.470	33.128	52.977	0.00	0.00

ATOM	18327	CA	ASN	1225	63.733	31.351	52.104	0.00	0.00
ATOM	18328	HA	ASN	1225	63.899	31.986	51.234	0.00	0.00
ATOM	18329	CB	ASN	1225	64.632	30.091	52.049	0.00	0.00
ATOM	18330	HB2	ASN	1225	64.468	29.301	52.782	0.00	0.00
ATOM	18331	HB3	ASN	1225	64.569	29.631	51.063	0.00	0.00
ATOM	18332	CG	ASN	1225	66.065	30.425	52.253	0.00	0.00
ATOM	18333	OD1	ASN	1225	66.617	31.237	51.636	0.00	0.00
ATOM	18334	ND2	ASN	1225	66.778	29.564	53.016	0.00	0.00
ATOM	18335	1HD2	ASN	1225	67.726	29.771	53.297	0.00	0.00
ATOM	18336	2HD2	ASN	1225	66.174	28.891	53.467	0.00	0.00
ATOM	18337	C	ASN	1225	62.256	30.985	52.018	0.00	0.00
ATOM	18338	O	ASN	1225	61.845	30.021	51.377	0.00	0.00
ATOM	18339	N	GLU	1226	61.458	31.892	52.535	0.00	0.00
ATOM	18340	H	GLU	1226	61.961	32.615	53.030	0.00	0.00
ATOM	18341	CA	GLU	1226	60.018	31.809	52.700	0.00	0.00
ATOM	18342	HA	GLU	1226	59.664	30.946	53.263	0.00	0.00
ATOM	18343	CB	GLU	1226	59.553	32.987	53.495	0.00	0.00
ATOM	18344	HB2	GLU	1226	58.568	32.660	53.826	0.00	0.00
ATOM	18345	HB3	GLU	1226	60.098	33.006	54.439	0.00	0.00
ATOM	18346	CG	GLU	1226	59.558	34.415	52.887	0.00	0.00
ATOM	18347	HG2	GLU	1226	60.561	34.644	52.529	0.00	0.00
ATOM	18348	HG3	GLU	1226	58.788	34.490	52.119	0.00	0.00
ATOM	18349	CD	GLU	1226	59.235	35.494	53.900	0.00	0.00
ATOM	18350	OE1	GLU	1226	59.963	36.509	53.930	0.00	0.00
ATOM	18351	OE2	GLU	1226	58.256	35.350	54.645	0.00	0.00
ATOM	18352	C	GLU	1226	59.175	31.797	51.398	0.00	0.00

ATOM	18353	O	GLU	1226	58.184	31.097	51.345	0.00	0.00
ATOM	18354	N	SER	1227	59.681	32.352	50.344	0.00	0.00
ATOM	18355	H	SER	1227	60.483	32.963	50.385	0.00	0.00
ATOM	18356	CA	SER	1227	59.030	32.620	49.097	0.00	0.00
ATOM	18357	HA	SER	1227	58.082	32.084	49.060	0.00	0.00
ATOM	18358	CB	SER	1227	58.649	34.069	49.056	0.00	0.00
ATOM	18359	HB2	SER	1227	59.455	34.607	49.556	0.00	0.00
ATOM	18360	HB3	SER	1227	58.437	34.526	48.090	0.00	0.00
ATOM	18361	OG	SER	1227	57.498	34.236	49.848	0.00	0.00
ATOM	18362	HG	SER	1227	57.489	35.102	50.261	0.00	0.00
ATOM	18363	C	SER	1227	59.898	32.203	47.893	0.00	0.00
ATOM	18364	O	SER	1227	59.296	32.069	46.841	0.00	0.00
ATOM	18365	N	GLY	1228	61.191	31.892	48.149	0.00	0.00
ATOM	18366	H	GLY	1228	61.580	32.061	49.065	0.00	0.00
ATOM	18367	CA	GLY	1228	62.114	31.229	47.223	0.00	0.00
ATOM	18368	HA2	GLY	1228	61.775	30.193	47.194	0.00	0.00
ATOM	18369	HA3	GLY	1228	62.045	31.745	46.265	0.00	0.00
ATOM	18370	C	GLY	1228	63.579	31.337	47.614	0.00	0.00
ATOM	18371	O	GLY	1228	63.975	31.532	48.782	0.00	0.00
ATOM	18372	N	PHE	1229	64.429	31.282	46.542	0.00	0.00
ATOM	18373	H	PHE	1229	64.011	30.826	45.743	0.00	0.00
ATOM	18374	CA	PHE	1229	65.925	31.385	46.624	0.00	0.00
ATOM	18375	HA	PHE	1229	66.278	31.507	47.648	0.00	0.00
ATOM	18376	CB	PHE	1229	66.591	29.992	46.254	0.00	0.00
ATOM	18377	HB2	PHE	1229	66.414	29.745	45.208	0.00	0.00
ATOM	18378	HB3	PHE	1229	67.665	30.118	46.392	0.00	0.00

ATOM 18379	CG	PHE 1229	66.188	28.793	47.070	0.00	0.00
ATOM 18380	CD1	PHE 1229	66.274	28.849	48.491	0.00	0.00
ATOM 18381	HD1	PHE 1229	66.672	29.700	49.024	0.00	0.00
ATOM 18382	CE1	PHE 1229	65.709	27.815	49.216	0.00	0.00
ATOM 18383	HE1	PHE 1229	65.595	27.925	50.284	0.00	0.00
ATOM 18384	CZ	PHE 1229	65.049	26.748	48.623	0.00	0.00
ATOM 18385	HZ	PHE 1229	64.671	25.951	49.246	0.00	0.00
ATOM 18386	CE2	PHE 1229	64.971	26.656	47.200	0.00	0.00
ATOM 18387	HE2	PHE 1229	64.458	25.819	46.750	0.00	0.00
ATOM 18388	CD2	PHE 1229	65.598	27.695	46.392	0.00	0.00
ATOM 18389	HD2	PHE 1229	65.558	27.651	45.314	0.00	0.00
ATOM 18390	C	PHE 1229	66.502	32.647	45.916	0.00	0.00
ATOM 18391	O	PHE 1229	65.712	33.515	45.521	0.00	0.00
ATOM 18392	N	VAL 1230	67.802	32.792	45.727	0.00	0.00
ATOM 18393	H	VAL 1230	68.369	31.981	45.924	0.00	0.00
ATOM 18394	CA	VAL 1230	68.306	34.098	45.220	0.00	0.00
ATOM 18395	HA	VAL 1230	67.844	34.897	45.799	0.00	0.00
ATOM 18396	CB	VAL 1230	69.845	34.269	45.494	0.00	0.00
ATOM 18397	HB	VAL 1230	70.002	33.792	46.461	0.00	0.00
ATOM 18398	CG1	VAL 1230	70.754	33.542	44.498	0.00	0.00
ATOM 18399	1HG1	VAL 1230	70.394	32.516	44.429	0.00	0.00
ATOM 18400	2HG1	VAL 1230	70.649	34.029	43.528	0.00	0.00
ATOM 18401	3HG1	VAL 1230	71.809	33.585	44.769	0.00	0.00
ATOM 18402	CG2	VAL 1230	70.316	35.678	45.622	0.00	0.00
ATOM 18403	1HG2	VAL 1230	70.254	36.096	44.617	0.00	0.00
ATOM 18404	2HG2	VAL 1230	69.552	36.152	46.238	0.00	0.00

ATOM 18405	3HG2	VAL	1230	71.334	35.827	45.980	0.00	0.00
ATOM 18406	C	VAL	1230	67.966	34.265	43.738	0.00	0.00
ATOM 18407	O	VAL	1230	67.944	35.336	43.240	0.00	0.00
ATOM 18408	N	GLU	1231	67.809	33.136	43.012	0.00	0.00
ATOM 18409	H	GLU	1231	68.067	32.256	43.436	0.00	0.00
ATOM 18410	CA	GLU	1231	67.323	33.112	41.670	0.00	0.00
ATOM 18411	HA	GLU	1231	68.034	33.698	41.087	0.00	0.00
ATOM 18412	CB	GLU	1231	67.355	31.594	41.193	0.00	0.00
ATOM 18413	HB2	GLU	1231	67.052	31.515	40.149	0.00	0.00
ATOM 18414	HB3	GLU	1231	68.316	31.086	41.271	0.00	0.00
ATOM 18415	CG	GLU	1231	66.264	30.764	41.855	0.00	0.00
ATOM 18416	HG2	GLU	1231	66.047	30.842	42.921	0.00	0.00
ATOM 18417	HG3	GLU	1231	65.397	31.130	41.305	0.00	0.00
ATOM 18418	CD	GLU	1231	66.465	29.285	41.470	0.00	0.00
ATOM 18419	OE1	GLU	1231	67.528	28.730	41.839	0.00	0.00
ATOM 18420	OE2	GLU	1231	65.411	28.708	40.948	0.00	0.00
ATOM 18421	C	GLU	1231	65.927	33.656	41.375	0.00	0.00
ATOM 18422	O	GLU	1231	65.632	34.181	40.310	0.00	0.00
ATOM 18423	N	ASP	1232	65.094	33.427	42.436	0.00	0.00
ATOM 18424	H	ASP	1232	65.483	32.896	43.201	0.00	0.00
ATOM 18425	CA	ASP	1232	63.790	33.969	42.624	0.00	0.00
ATOM 18426	HA	ASP	1232	63.222	33.704	41.732	0.00	0.00
ATOM 18427	CB	ASP	1232	63.039	33.492	43.874	0.00	0.00
ATOM 18428	HB2	ASP	1232	63.286	32.430	43.899	0.00	0.00
ATOM 18429	HB3	ASP	1232	63.421	34.017	44.750	0.00	0.00
ATOM 18430	CG	ASP	1232	61.521	33.630	43.774	0.00	0.00



ATOM	18431	OD1	ASP	1232	61.016	33.922	42.705	0.00	0.00
ATOM	18432	OD2	ASP	1232	60.804	33.522	44.801	0.00	0.00
ATOM	18433	C	ASP	1232	63.893	35.497	42.613	0.00	0.00
ATOM	18434	O	ASP	1232	63.492	36.058	41.606	0.00	0.00
ATOM	18435	N	THR	1233	64.707	36.090	43.501	0.00	0.00
ATOM	18436	H	THR	1233	64.991	35.500	44.270	0.00	0.00
ATOM	18437	CA	THR	1233	65.112	37.510	43.589	0.00	0.00
ATOM	18438	HA	THR	1233	64.180	38.041	43.780	0.00	0.00
ATOM	18439	CB	THR	1233	66.118	37.764	44.727	0.00	0.00
ATOM	18440	HB	THR	1233	67.074	37.278	44.539	0.00	0.00
ATOM	18441	CG2	THR	1233	66.324	39.219	45.071	0.00	0.00
ATOM	18442	1HG2	THR	1233	66.503	39.835	44.189	0.00	0.00
ATOM	18443	2HG2	THR	1233	65.515	39.605	45.691	0.00	0.00
ATOM	18444	3HG2	THR	1233	67.194	39.170	45.726	0.00	0.00
ATOM	18445	OG1	THR	1233	65.616	37.206	45.896	0.00	0.00
ATOM	18446	HG1	THR	1233	64.666	37.213	45.753	0.00	0.00
ATOM	18447	C	THR	1233	65.768	38.109	42.283	0.00	0.00
ATOM	18448	O	THR	1233	65.379	39.194	41.895	0.00	0.00
ATOM	18449	N	LEU	1234	66.637	37.335	41.656	0.00	0.00
ATOM	18450	H	LEU	1234	67.026	36.501	42.072	0.00	0.00
ATOM	18451	CA	LEU	1234	67.216	37.695	40.389	0.00	0.00
ATOM	18452	HA	LEU	1234	67.498	38.744	40.477	0.00	0.00
ATOM	18453	CB	LEU	1234	68.441	36.777	40.098	0.00	0.00
ATOM	18454	HB2	LEU	1234	68.084	35.749	40.148	0.00	0.00
ATOM	18455	HB3	LEU	1234	68.742	36.953	39.066	0.00	0.00
ATOM	18456	CG	LEU	1234	69.597	37.043	41.096	0.00	0.00

ATOM 18457	HG LEU 1234	69.280	37.345	42.095	0.00	0.00
ATOM 18458	CD1 LEU 1234	70.451	35.769	41.128	0.00	0.00
ATOM 18459	1HD1 LEU 1234	71.411	35.975	41.601	0.00	0.00
ATOM 18460	2HD1 LEU 1234	69.879	34.996	41.642	0.00	0.00
ATOM 18461	3HD1 LEU 1234	70.735	35.392	40.146	0.00	0.00
ATOM 18462	CD2 LEU 1234	70.428	38.240	40.583	0.00	0.00
ATOM 18463	1HD2 LEU 1234	71.073	38.519	41.417	0.00	0.00
ATOM 18464	2HD2 LEU 1234	71.049	37.828	39.787	0.00	0.00
ATOM 18465	3HD2 LEU 1234	69.718	39.027	40.327	0.00	0.00
ATOM 18466	C LEU 1234	66.240	37.702	39.111	0.00	0.00
ATOM 18467	O LEU 1234	66.445	38.557	38.235	0.00	0.00
ATOM 18468	N ALA 1235	65.224	36.792	39.071	0.00	0.00
ATOM 18469	H ALA 1235	65.325	35.991	39.678	0.00	0.00
ATOM 18470	CA ALA 1235	64.079	36.895	38.214	0.00	0.00
ATOM 18471	HA ALA 1235	64.399	37.093	37.191	0.00	0.00
ATOM 18472	CB ALA 1235	63.319	35.524	38.213	0.00	0.00
ATOM 18473	HB1 ALA 1235	62.428	35.449	37.590	0.00	0.00
ATOM 18474	HB2 ALA 1235	63.914	34.706	37.808	0.00	0.00
ATOM 18475	HB3 ALA 1235	63.010	35.167	39.196	0.00	0.00
ATOM 18476	C ALA 1235	63.184	38.068	38.585	0.00	0.00
ATOM 18477	O ALA 1235	62.662	38.655	37.638	0.00	0.00
ATOM 18478	N ALA 1236	62.944	38.458	39.875	0.00	0.00
ATOM 18479	H ALA 1236	63.137	37.790	40.608	0.00	0.00
ATOM 18480	CA ALA 1236	62.082	39.533	40.223	0.00	0.00
ATOM 18481	HA ALA 1236	61.155	39.387	39.669	0.00	0.00
ATOM 18482	CB ALA 1236	61.653	39.409	41.666	0.00	0.00

ATOM	18483	HB1	ALA	1236	60.962	40.160	42.048	0.00	0.00
ATOM	18484	HB2	ALA	1236	61.301	38.418	41.952	0.00	0.00
ATOM	18485	HB3	ALA	1236	62.582	39.467	42.234	0.00	0.00
ATOM	18486	C	ALA	1236	62.777	40.890	39.872	0.00	0.00
ATOM	18487	O	ALA	1236	62.095	41.856	39.517	0.00	0.00
ATOM	18488	N	ILE	1237	64.123	41.024	40.102	0.00	0.00
ATOM	18489	H	ILE	1237	64.576	40.190	40.448	0.00	0.00
ATOM	18490	CA	ILE	1237	65.040	42.144	39.761	0.00	0.00
ATOM	18491	HA	ILE	1237	64.576	43.069	40.103	0.00	0.00
ATOM	18492	CB	ILE	1237	66.484	41.948	40.234	0.00	0.00
ATOM	18493	HB	ILE	1237	66.890	40.984	39.928	0.00	0.00
ATOM	18494	CG2	ILE	1237	67.429	43.052	39.610	0.00	0.00
ATOM	18495	1HG2	ILE	1237	67.598	42.955	38.538	0.00	0.00
ATOM	18496	2HG2	ILE	1237	66.897	43.987	39.791	0.00	0.00
ATOM	18497	3HG2	ILE	1237	68.397	43.233	40.078	0.00	0.00
ATOM	18498	CG1	ILE	1237	66.551	42.123	41.822	0.00	0.00
ATOM	18499	2HG1	ILE	1237	66.165	43.124	42.014	0.00	0.00
ATOM	18500	3HG1	ILE	1237	65.870	41.543	42.443	0.00	0.00
ATOM	18501	CD1	ILE	1237	67.941	41.829	42.421	0.00	0.00
ATOM	18502	1HD1	ILE	1237	67.953	41.687	43.501	0.00	0.00
ATOM	18503	2HD1	ILE	1237	68.327	40.876	42.059	0.00	0.00
ATOM	18504	3HD1	ILE	1237	68.763	42.497	42.165	0.00	0.00
ATOM	18505	C	ILE	1237	65.171	42.299	38.241	0.00	0.00
ATOM	18506	O	ILE	1237	64.926	43.370	37.694	0.00	0.00
ATOM	18507	N	GLY	1238	65.135	41.161	37.523	0.00	0.00
ATOM	18508	H	GLY	1238	65.182	40.237	37.929	0.00	0.00

ATOM	18509	CA	GLY	1238	64.833	41.176	36.132	0.00	0.00
ATOM	18510	HA2	GLY	1238	64.850	40.142	35.787	0.00	0.00
ATOM	18511	HA3	GLY	1238	63.830	41.582	35.998	0.00	0.00
ATOM	18512	C	GLY	1238	65.789	42.004	35.290	0.00	0.00
ATOM	18513	O	GLY	1238	65.342	42.824	34.516	0.00	0.00
ATOM	18514	N	GLY	1239	67.080	41.905	35.491	0.00	0.00
ATOM	18515	H	GLY	1239	67.366	41.141	36.088	0.00	0.00
ATOM	18516	CA	GLY	1239	68.133	42.635	34.763	0.00	0.00
ATOM	18517	HA2	GLY	1239	69.096	42.191	35.014	0.00	0.00
ATOM	18518	HA3	GLY	1239	68.113	42.485	33.683	0.00	0.00
ATOM	18519	C	GLY	1239	68.252	44.123	34.970	0.00	0.00
ATOM	18520	O	GLY	1239	69.060	44.809	34.291	0.00	0.00
ATOM	18521	N	ARG	1240	67.567	44.702	35.902	0.00	0.00
ATOM	18522	H	ARG	1240	67.166	44.043	36.554	0.00	0.00
ATOM	18523	CA	ARG	1240	67.404	46.203	36.032	0.00	0.00
ATOM	18524	HA	ARG	1240	67.844	46.681	35.157	0.00	0.00
ATOM	18525	CB	ARG	1240	65.900	46.603	36.139	0.00	0.00
ATOM	18526	HB2	ARG	1240	65.517	46.213	37.082	0.00	0.00
ATOM	18527	HB3	ARG	1240	65.802	47.686	36.217	0.00	0.00
ATOM	18528	CG	ARG	1240	65.001	46.277	34.869	0.00	0.00
ATOM	18529	HG2	ARG	1240	65.143	47.144	34.224	0.00	0.00
ATOM	18530	HG3	ARG	1240	65.344	45.474	34.218	0.00	0.00
ATOM	18531	CD	ARG	1240	63.517	46.195	35.261	0.00	0.00
ATOM	18532	HD2	ARG	1240	63.291	47.161	35.712	0.00	0.00
ATOM	18533	HD3	ARG	1240	62.860	46.095	34.397	0.00	0.00
ATOM	18534	NE	ARG	1240	63.196	45.186	36.231	0.00	0.00

ATOM	18535	HE	ARG	1240	63.966	44.634	36.583	0.00	0.00
ATOM	18536	CZ	ARG	1240	62.041	44.828	36.759	0.00	0.00
ATOM	18537	NH1	ARG	1240	60.912	45.482	36.547	0.00	0.00
ATOM	18538	1HH1	ARG	1240	60.018	45.068	36.769	0.00	0.00
ATOM	18539	2HH1	ARG	1240	60.977	46.256	35.900	0.00	0.00
ATOM	18540	NH2	ARG	1240	61.948	43.835	37.589	0.00	0.00
ATOM	18541	1HH2	ARG	1240	60.994	43.581	37.800	0.00	0.00
ATOM	18542	2HH2	ARG	1240	62.781	43.381	37.937	0.00	0.00
ATOM	18543	C	ARG	1240	68.222	46.735	37.197	0.00	0.00
ATOM	18544	O	ARG	1240	68.422	45.969	38.157	0.00	0.00
ATOM	18545	N	THR	1241	68.846	47.908	37.213	0.00	0.00
ATOM	18546	H	THR	1241	68.704	48.546	36.443	0.00	0.00
ATOM	18547	CA	THR	1241	69.833	48.208	38.231	0.00	0.00
ATOM	18548	HA	THR	1241	70.531	47.371	38.249	0.00	0.00
ATOM	18549	CB	THR	1241	70.702	49.370	37.737	0.00	0.00
ATOM	18550	HB	THR	1241	70.156	50.312	37.682	0.00	0.00
ATOM	18551	CG2	THR	1241	72.006	49.615	38.573	0.00	0.00
ATOM	18552	1HG2	THR	1241	71.803	50.170	39.489	0.00	0.00
ATOM	18553	2HG2	THR	1241	72.338	48.602	38.800	0.00	0.00
ATOM	18554	3HG2	THR	1241	72.743	50.264	38.100	0.00	0.00
ATOM	18555	OG1	THR	1241	71.201	49.055	36.422	0.00	0.00
ATOM	18556	HG1	THR	1241	71.843	49.728	36.186	0.00	0.00
ATOM	18557	C	THR	1241	69.359	48.299	39.677	0.00	0.00
ATOM	18558	O	THR	1241	68.224	48.744	39.952	0.00	0.00
ATOM	18559	N	ILE	1242	70.183	47.783	40.564	0.00	0.00
ATOM	18560	H	ILE	1242	70.983	47.252	40.250	0.00	0.00

ATOM 18561	CA	ILE	1242	69.935	47.770	42.045	0.00	0.00
ATOM 18562	HA	ILE	1242	69.280	48.618	42.244	0.00	0.00
ATOM 18563	CB	ILE	1242	69.146	46.445	42.447	0.00	0.00
ATOM 18564	HB	ILE	1242	68.543	46.126	41.597	0.00	0.00
ATOM 18565	CG2	ILE	1242	70.037	45.260	42.827	0.00	0.00
ATOM 18566	1HG2	ILE	1242	70.518	45.380	43.797	0.00	0.00
ATOM 18567	2HG2	ILE	1242	69.360	44.405	42.816	0.00	0.00
ATOM 18568	3HG2	ILE	1242	70.851	45.201	42.105	0.00	0.00
ATOM 18569	CG1	ILE	1242	68.132	46.734	43.611	0.00	0.00
ATOM 18570	2HG1	ILE	1242	68.626	46.898	44.569	0.00	0.00
ATOM 18571	3HG1	ILE	1242	67.720	47.679	43.257	0.00	0.00
ATOM 18572	CD1	ILE	1242	67.003	45.671	43.649	0.00	0.00
ATOM 18573	1HD1	ILE	1242	66.168	46.029	44.252	0.00	0.00
ATOM 18574	2HD1	ILE	1242	66.614	45.397	42.669	0.00	0.00
ATOM 18575	3HD1	ILE	1242	67.477	44.799	44.099	0.00	0.00
ATOM 18576	C	ILE	1242	71.211	47.950	42.896	0.00	0.00
ATOM 18577	O	ILE	1242	72.292	47.505	42.413	0.00	0.00
ATOM 18578	N	HID	1243	71.100	48.466	44.127	0.00	0.00
ATOM 18579	H	HID	1243	70.271	48.957	44.430	0.00	0.00
ATOM 18580	CA	HID	1243	72.218	48.519	45.095	0.00	0.00
ATOM 18581	HA	HID	1243	73.097	48.351	44.472	0.00	0.00
ATOM 18582	CB	HID	1243	72.300	49.880	45.722	0.00	0.00
ATOM 18583	HB2	HID	1243	72.460	50.555	44.881	0.00	0.00
ATOM 18584	HB3	HID	1243	71.309	50.131	46.098	0.00	0.00
ATOM 18585	CG	HID	1243	73.331	50.102	46.849	0.00	0.00
ATOM 18586	ND1	HID	1243	74.315	49.314	47.325	0.00	0.00

ATOM	18587	HD1	HID	1243	74.625	48.447	46.910	0.00	0.00
ATOM	18588	CE1	HID	1243	74.873	49.853	48.403	0.00	0.00
ATOM	18589	HE1	HID	1243	75.736	49.431	48.896	0.00	0.00
ATOM	18590	NE2	HID	1243	74.262	51.044	48.600	0.00	0.00
ATOM	18591	CD2	HID	1243	73.289	51.222	47.598	0.00	0.00
ATOM	18592	HD2	HID	1243	72.562	52.019	47.562	0.00	0.00
ATOM	18593	C	HID	1243	72.006	47.533	46.190	0.00	0.00
ATOM	18594	O	HID	1243	70.950	47.503	46.927	0.00	0.00
ATOM	18595	N	THR	1244	73.013	46.649	46.315	0.00	0.00
ATOM	18596	H	THR	1244	73.758	46.603	45.634	0.00	0.00
ATOM	18597	CA	THR	1244	72.977	45.651	47.406	0.00	0.00
ATOM	18598	HA	THR	1244	71.962	45.650	47.803	0.00	0.00
ATOM	18599	CB	THR	1244	73.322	44.227	46.934	0.00	0.00
ATOM	18600	HB	THR	1244	73.638	43.644	47.799	0.00	0.00
ATOM	18601	CG2	THR	1244	72.213	43.559	46.071	0.00	0.00
ATOM	18602	1HG2	THR	1244	71.250	43.753	46.544	0.00	0.00
ATOM	18603	2HG2	THR	1244	72.113	44.037	45.097	0.00	0.00
ATOM	18604	3HG2	THR	1244	72.505	42.527	45.875	0.00	0.00
ATOM	18605	OG1	THR	1244	74.366	44.328	46.081	0.00	0.00
ATOM	18606	HG1	THR	1244	75.135	44.183	46.638	0.00	0.00
ATOM	18607	C	THR	1244	73.820	46.084	48.642	0.00	0.00
ATOM	18608	O	THR	1244	74.945	46.494	48.474	0.00	0.00
ATOM	18609	N	PHE	1245	73.325	45.733	49.778	0.00	0.00
ATOM	18610	H	PHE	1245	72.428	45.267	49.757	0.00	0.00
ATOM	18611	CA	PHE	1245	73.929	45.813	51.110	0.00	0.00
ATOM	18612	HA	PHE	1245	74.749	46.514	50.952	0.00	0.00

ATOM	18613	CB	PHE	1245	73.096	46.465	52.196	0.00	0.00
ATOM	18614	HB2	PHE	1245	72.150	45.937	52.314	0.00	0.00
ATOM	18615	HB3	PHE	1245	73.554	46.529	53.183	0.00	0.00
ATOM	18616	CG	PHE	1245	72.715	47.890	51.754	0.00	0.00
ATOM	18617	CD1	PHE	1245	73.703	48.936	51.744	0.00	0.00
ATOM	18618	HD1	PHE	1245	74.767	48.840	51.899	0.00	0.00
ATOM	18619	CE1	PHE	1245	73.353	50.252	51.435	0.00	0.00
ATOM	18620	HE1	PHE	1245	74.113	50.997	51.250	0.00	0.00
ATOM	18621	CZ	PHE	1245	72.009	50.576	51.189	0.00	0.00
ATOM	18622	HZ	PHE	1245	71.775	51.608	50.974	0.00	0.00
ATOM	18623	CE2	PHE	1245	71.023	49.549	51.195	0.00	0.00
ATOM	18624	HE2	PHE	1245	69.995	49.764	50.944	0.00	0.00
ATOM	18625	CD2	PHE	1245	71.362	48.183	51.407	0.00	0.00
ATOM	18626	HD2	PHE	1245	70.643	47.395	51.243	0.00	0.00
ATOM	18627	C	PHE	1245	74.460	44.517	51.532	0.00	0.00
ATOM	18628	O	PHE	1245	73.724	43.485	51.274	0.00	0.00
ATOM	18629	N	H12	1246	75.548	44.417	52.332	0.00	0.00
ATOM	18630	H	H12	1246	76.118	45.248	52.398	0.00	0.00
ATOM	18631	CA	H12	1246	76.050	43.257	53.101	0.00	0.00
ATOM	18632	HA	H12	1246	77.124	43.392	53.232	0.00	0.00
ATOM	18633	CB	H12	1246	75.433	43.367	54.487	0.00	0.00
ATOM	18634	HB2	H12	1246	75.622	42.425	55.001	0.00	0.00
ATOM	18635	HB3	H12	1246	75.954	44.179	54.994	0.00	0.00
ATOM	18636	CG	H12	1246	73.911	43.604	54.682	0.00	0.00
ATOM	18637	ND1	H12	1246	72.927	42.907	54.101	0.00	0.00
ATOM	18638	HD1	H12	1246	73.114	42.109	53.511	0.00	0.00



ATOM	18639	CE1	H12	1246	71.740	43.339	54.448	0.00	0.00
ATOM	18640	HE1	H12	1246	70.844	42.753	54.310	0.00	0.00
ATOM	18641	NE2	H12	1246	71.910	44.385	55.313	0.00	0.00
ATOM	18642	CD2	H12	1246	73.287	44.605	55.436	0.00	0.00
ATOM	18643	HD2	H12	1246	73.703	45.342	56.107	0.00	0.00
ATOM	18644	C	H12	1246	75.868	41.981	52.198	0.00	0.00
ATOM	18645	O	H12	1246	75.138	41.047	52.499	0.00	0.00
ATOM	18646	N	THR	1247	76.398	42.070	50.954	0.00	0.00
ATOM	18647	H	THR	1247	77.009	42.838	50.714	0.00	0.00
ATOM	18648	CA	THR	1247	76.131	41.158	49.892	0.00	0.00
ATOM	18649	HA	THR	1247	75.074	40.894	49.868	0.00	0.00
ATOM	18650	CB	THR	1247	76.457	41.937	48.580	0.00	0.00
ATOM	18651	HB	THR	1247	77.534	41.817	48.463	0.00	0.00
ATOM	18652	CG2	THR	1247	75.767	41.438	47.288	0.00	0.00
ATOM	18653	1HG2	THR	1247	76.058	41.936	46.363	0.00	0.00
ATOM	18654	2HG2	THR	1247	75.945	40.365	47.218	0.00	0.00
ATOM	18655	3HG2	THR	1247	74.681	41.492	47.360	0.00	0.00
ATOM	18656	OG1	THR	1247	76.223	43.380	48.586	0.00	0.00
ATOM	18657	HG1	THR	1247	76.869	43.744	49.196	0.00	0.00
ATOM	18658	C	THR	1247	76.942	39.813	49.998	0.00	0.00
ATOM	18659	O	THR	1247	76.972	39.081	49.046	0.00	0.00
ATOM	18660	N	GLU	1248	77.555	39.408	51.137	0.00	0.00
ATOM	18661	H	GLU	1248	77.599	40.042	51.923	0.00	0.00
ATOM	18662	CA	GLU	1248	77.809	37.984	51.429	0.00	0.00
ATOM	18663	HA	GLU	1248	78.003	37.464	50.491	0.00	0.00
ATOM	18664	CB	GLU	1248	79.016	37.871	52.351	0.00	0.00

ATOM	18665	HB2	GLU	1248	79.797	38.469	51.882	0.00	0.00
ATOM	18666	HB3	GLU	1248	78.739	38.279	53.323	0.00	0.00
ATOM	18667	CG	GLU	1248	79.618	36.441	52.676	0.00	0.00
ATOM	18668	HG2	GLU	1248	79.699	35.726	51.857	0.00	0.00
ATOM	18669	HG3	GLU	1248	80.627	36.690	53.006	0.00	0.00
ATOM	18670	CD	GLU	1248	78.863	35.599	53.761	0.00	0.00
ATOM	18671	OE1	GLU	1248	77.976	36.150	54.416	0.00	0.00
ATOM	18672	OE2	GLU	1248	78.907	34.371	53.756	0.00	0.00
ATOM	18673	C	GLU	1248	76.625	37.292	52.089	0.00	0.00
ATOM	18674	O	GLU	1248	76.415	36.067	51.887	0.00	0.00
ATOM	18675	N	GLY	1249	75.786	38.031	52.811	0.00	0.00
ATOM	18676	H	GLY	1249	75.903	39.034	52.815	0.00	0.00
ATOM	18677	CA	GLY	1249	74.727	37.541	53.621	0.00	0.00
ATOM	18678	HA2	GLY	1249	73.750	37.898	53.296	0.00	0.00
ATOM	18679	HA3	GLY	1249	74.664	36.452	53.613	0.00	0.00
ATOM	18680	C	GLY	1249	74.906	37.807	55.146	0.00	0.00
ATOM	18681	O	GLY	1249	73.952	37.644	55.922	0.00	0.00
ATOM	18682	N	ALA	1250	76.067	38.406	55.614	0.00	0.00
ATOM	18683	H	ALA	1250	76.781	38.437	54.900	0.00	0.00
ATOM	18684	CA	ALA	1250	76.491	38.699	56.971	0.00	0.00
ATOM	18685	HA	ALA	1250	76.359	37.754	57.497	0.00	0.00
ATOM	18686	CB	ALA	1250	78.024	39.012	56.803	0.00	0.00
ATOM	18687	HB1	ALA	1250	78.176	40.037	56.465	0.00	0.00
ATOM	18688	HB2	ALA	1250	78.472	39.105	57.792	0.00	0.00
ATOM	18689	HB3	ALA	1250	78.538	38.260	56.205	0.00	0.00
ATOM	18690	C	ALA	1250	75.662	39.698	57.800	0.00	0.00

ATOM	18691	O	ALA	1250	75.263	39.412	58.927	0.00	0.00
ATOM	18692	N	GLY	1251	75.226	40.720	57.072	0.00	0.00
ATOM	18693	H	GLY	1251	75.634	40.954	56.178	0.00	0.00
ATOM	18694	CA	GLY	1251	74.077	41.516	57.566	0.00	0.00
ATOM	18695	HA2	GLY	1251	74.169	41.601	58.648	0.00	0.00
ATOM	18696	HA3	GLY	1251	74.164	42.517	57.144	0.00	0.00
ATOM	18697	C	GLY	1251	72.739	40.899	57.236	0.00	0.00
ATOM	18698	O	GLY	1251	71.798	41.132	57.973	0.00	0.00
ATOM	18699	N	GLY	1252	72.677	40.180	56.055	0.00	0.00
ATOM	18700	H	GLY	1252	73.494	40.145	55.463	0.00	0.00
ATOM	18701	CA	GLY	1252	71.435	39.635	55.450	0.00	0.00
ATOM	18702	HA2	GLY	1252	71.011	38.837	56.060	0.00	0.00
ATOM	18703	HA3	GLY	1252	70.720	40.445	55.308	0.00	0.00
ATOM	18704	C	GLY	1252	71.590	39.197	53.978	0.00	0.00
ATOM	18705	O	GLY	1252	72.101	39.989	53.169	0.00	0.00
ATOM	18706	N	GLY	1253	71.120	37.974	53.712	0.00	0.00
ATOM	18707	H	GLY	1253	71.047	37.272	54.434	0.00	0.00
ATOM	18708	CA	GLY	1253	70.838	37.469	52.388	0.00	0.00
ATOM	18709	HA2	GLY	1253	69.981	37.973	51.939	0.00	0.00
ATOM	18710	HA3	GLY	1253	71.681	37.637	51.718	0.00	0.00
ATOM	18711	C	GLY	1253	70.606	35.985	52.220	0.00	0.00
ATOM	18712	O	GLY	1253	70.952	35.222	53.121	0.00	0.00
ATOM	18713	N	HIP	1254	70.199	35.517	51.024	0.00	0.00
ATOM	18714	H	HIP	1254	69.817	36.201	50.387	0.00	0.00
ATOM	18715	CA	HIP	1254	70.254	34.106	50.621	0.00	0.00
ATOM	18716	HA	HIP	1254	69.706	33.499	51.342	0.00	0.00

ATOM 18717	CB	HIP	1254	69.617	34.059	49.205	0.00	0.00
ATOM 18718	HB2	HIP	1254	69.986	34.825	48.524	0.00	0.00
ATOM 18719	HB3	HIP	1254	69.856	33.084	48.781	0.00	0.00
ATOM 18720	CG	HIP	1254	68.068	34.174	49.148	0.00	0.00
ATOM 18721	ND1	HIP	1254	67.211	33.200	49.654	0.00	0.00
ATOM 18722	HD1	HIP	1254	67.424	32.483	50.332	0.00	0.00
ATOM 18723	CE1	HIP	1254	65.937	33.652	49.508	0.00	0.00
ATOM 18724	HE1	HIP	1254	65.095	33.347	50.112	0.00	0.00
ATOM 18725	NE2	HIP	1254	65.924	34.856	48.948	0.00	0.00
ATOM 18726	HE2	HIP	1254	65.163	35.518	48.998	0.00	0.00
ATOM 18727	CD2	HIP	1254	67.210	35.237	48.847	0.00	0.00
ATOM 18728	HD2	HIP	1254	67.569	36.150	48.396	0.00	0.00
ATOM 18729	C	HIP	1254	71.696	33.580	50.724	0.00	0.00
ATOM 18730	O	HIP	1254	72.544	34.020	50.025	0.00	0.00
ATOM 18731	N	ALA	1255	71.901	32.512	51.486	0.00	0.00
ATOM 18732	H	ALA	1255	71.157	32.089	52.023	0.00	0.00
ATOM 18733	CA	ALA	1255	73.255	31.872	51.608	0.00	0.00
ATOM 18734	HA	ALA	1255	73.948	32.301	50.885	0.00	0.00
ATOM 18735	CB	ALA	1255	73.849	32.060	53.013	0.00	0.00
ATOM 18736	HB1	ALA	1255	73.033	31.996	53.733	0.00	0.00
ATOM 18737	HB2	ALA	1255	74.484	31.200	53.228	0.00	0.00
ATOM 18738	HB3	ALA	1255	74.383	33.010	53.046	0.00	0.00
ATOM 18739	C	ALA	1255	73.245	30.409	51.309	0.00	0.00
ATOM 18740	O	ALA	1255	72.168	29.833	51.440	0.00	0.00
ATOM 18741	N	PRO	1256	74.353	29.719	50.989	0.00	0.00
ATOM 18742	CD	PRO	1256	74.436	28.248	51.175	0.00	0.00

ATOM	18743	HD2 PRO	1256	74.247	27.960	52.210	0.00	0.00
ATOM	18744	HD3 PRO	1256	73.758	27.751	50.482	0.00	0.00
ATOM	18745	CG PRO	1256	75.849	27.802	50.748	0.00	0.00
ATOM	18746	HG2 PRO	1256	76.306	27.121	51.467	0.00	0.00
ATOM	18747	HG3 PRO	1256	75.702	27.312	49.786	0.00	0.00
ATOM	18748	CB PRO	1256	76.676	29.128	50.682	0.00	0.00
ATOM	18749	HB2 PRO	1256	77.222	29.162	51.625	0.00	0.00
ATOM	18750	HB3 PRO	1256	77.344	29.100	49.821	0.00	0.00
ATOM	18751	CA PRO	1256	75.629	30.271	50.524	0.00	0.00
ATOM	18752	HA PRO	1256	76.090	31.174	50.925	0.00	0.00
ATOM	18753	C PRO	1256	75.401	30.569	48.999	0.00	0.00
ATOM	18754	O PRO	1256	75.249	29.723	48.162	0.00	0.00
ATOM	18755	N ASP	1257	75.109	31.833	48.675	0.00	0.00
ATOM	18756	H ASP	1257	75.178	32.607	49.319	0.00	0.00
ATOM	18757	CA ASP	1257	74.643	32.246	47.347	0.00	0.00
ATOM	18758	HA ASP	1257	75.167	31.684	46.574	0.00	0.00
ATOM	18759	CB ASP	1257	73.137	31.969	47.217	0.00	0.00
ATOM	18760	HB2 ASP	1257	72.597	32.061	48.160	0.00	0.00
ATOM	18761	HB3 ASP	1257	72.733	32.781	46.613	0.00	0.00
ATOM	18762	CG ASP	1257	72.838	30.653	46.513	0.00	0.00
ATOM	18763	OD1 ASP	1257	73.407	30.255	45.473	0.00	0.00
ATOM	18764	OD2 ASP	1257	72.000	29.866	46.962	0.00	0.00
ATOM	18765	C ASP	1257	74.998	33.670	46.990	0.00	0.00
ATOM	18766	O ASP	1257	75.653	33.938	45.941	0.00	0.00
ATOM	18767	N ILE	1258	74.473	34.633	47.759	0.00	0.00
ATOM	18768	H ILE	1258	74.113	34.367	48.665	0.00	0.00

ATOM 18769	CA	ILE	1258	74.399	36.092	47.401	0.00	0.00
ATOM 18770	HA	ILE	1258	73.956	36.144	46.406	0.00	0.00
ATOM 18771	CB	ILE	1258	73.465	36.939	48.369	0.00	0.00
ATOM 18772	HB	ILE	1258	72.439	36.583	48.461	0.00	0.00
ATOM 18773	CG2	ILE	1258	73.989	36.916	49.801	0.00	0.00
ATOM 18774	1HG2	ILE	1258	73.301	37.444	50.462	0.00	0.00
ATOM 18775	2HG2	ILE	1258	74.222	35.933	50.208	0.00	0.00
ATOM 18776	3HG2	ILE	1258	74.829	37.610	49.781	0.00	0.00
ATOM 18777	CG1	ILE	1258	73.370	38.430	47.903	0.00	0.00
ATOM 18778	2HG1	ILE	1258	74.291	38.996	48.050	0.00	0.00
ATOM 18779	3HG1	ILE	1258	73.196	38.485	46.828	0.00	0.00
ATOM 18780	CD1	ILE	1258	72.222	39.155	48.537	0.00	0.00
ATOM 18781	1HD1	ILE	1258	72.016	40.026	47.914	0.00	0.00
ATOM 18782	2HD1	ILE	1258	71.364	38.483	48.566	0.00	0.00
ATOM 18783	3HD1	ILE	1258	72.356	39.497	49.563	0.00	0.00
ATOM 18784	C	ILE	1258	75.796	36.728	47.303	0.00	0.00
ATOM 18785	O	ILE	1258	75.994	37.617	46.461	0.00	0.00
ATOM 18786	N	ILE	1259	76.884	36.169	47.829	0.00	0.00
ATOM 18787	H	ILE	1259	76.776	35.359	48.423	0.00	0.00
ATOM 18788	CA	ILE	1259	78.306	36.439	47.469	0.00	0.00
ATOM 18789	HA	ILE	1259	78.576	37.408	47.887	0.00	0.00
ATOM 18790	CB	ILE	1259	79.092	35.309	48.232	0.00	0.00
ATOM 18791	HB	ILE	1259	78.724	35.272	49.257	0.00	0.00
ATOM 18792	CG2	ILE	1259	78.939	33.895	47.570	0.00	0.00
ATOM 18793	1HG2	ILE	1259	79.549	33.176	48.117	0.00	0.00
ATOM 18794	2HG2	ILE	1259	77.904	33.565	47.489	0.00	0.00

ATOM	18795	3HG2	ILE	1259	79.387	33.979	46.580	0.00	0.00
ATOM	18796	CG1	ILE	1259	80.477	35.886	48.540	0.00	0.00
ATOM	18797	2HG1	ILE	1259	81.105	36.235	47.720	0.00	0.00
ATOM	18798	3HG1	ILE	1259	80.421	36.721	49.238	0.00	0.00
ATOM	18799	CD1	ILE	1259	81.354	34.899	49.230	0.00	0.00
ATOM	18800	1HD1	ILE	1259	81.547	34.096	48.518	0.00	0.00
ATOM	18801	2HD1	ILE	1259	82.295	35.438	49.333	0.00	0.00
ATOM	18802	3HD1	ILE	1259	80.964	34.531	50.179	0.00	0.00
ATOM	18803	C	ILE	1259	78.652	36.461	45.965	0.00	0.00
ATOM	18804	O	ILE	1259	79.562	37.172	45.586	0.00	0.00
ATOM	18805	N	THR	1260	77.874	35.821	45.126	0.00	0.00
ATOM	18806	H	THR	1260	76.992	35.478	45.478	0.00	0.00
ATOM	18807	CA	THR	1260	78.117	35.811	43.711	0.00	0.00
ATOM	18808	HA	THR	1260	79.167	35.881	43.428	0.00	0.00
ATOM	18809	CB	THR	1260	77.579	34.607	43.059	0.00	0.00
ATOM	18810	HB	THR	1260	77.588	34.785	41.984	0.00	0.00
ATOM	18811	CG2	THR	1260	78.337	33.327	43.383	0.00	0.00
ATOM	18812	1HG2	THR	1260	79.391	33.440	43.133	0.00	0.00
ATOM	18813	2HG2	THR	1260	78.245	33.152	44.455	0.00	0.00
ATOM	18814	3HG2	THR	1260	77.933	32.532	42.756	0.00	0.00
ATOM	18815	OG1	THR	1260	76.256	34.431	43.364	0.00	0.00
ATOM	18816	HG1	THR	1260	76.191	34.254	44.305	0.00	0.00
ATOM	18817	C	THR	1260	77.568	37.031	43.013	0.00	0.00
ATOM	18818	O	THR	1260	77.846	37.243	41.820	0.00	0.00
ATOM	18819	N	ALA	1261	76.649	37.821	43.659	0.00	0.00
ATOM	18820	H	ALA	1261	76.307	37.584	44.579	0.00	0.00

ATOM	18821	CA	ALA	1261	75.866	38.818	42.933	0.00	0.00
ATOM	18822	HA	ALA	1261	75.299	38.271	42.180	0.00	0.00
ATOM	18823	CB	ALA	1261	74.845	39.484	43.830	0.00	0.00
ATOM	18824	HB1	ALA	1261	74.329	38.772	44.474	0.00	0.00
ATOM	18825	HB2	ALA	1261	75.360	40.170	44.501	0.00	0.00
ATOM	18826	HB3	ALA	1261	74.162	39.994	43.150	0.00	0.00
ATOM	18827	C	ALA	1261	76.735	39.961	42.264	0.00	0.00
ATOM	18828	O	ALA	1261	76.371	40.551	41.256	0.00	0.00
ATOM	18829	N	CYS	1262	77.805	40.369	42.888	0.00	0.00
ATOM	18830	H	CYS	1262	78.126	39.845	43.689	0.00	0.00
ATOM	18831	CA	CYS	1262	78.741	41.373	42.390	0.00	0.00
ATOM	18832	HA	CYS	1262	78.407	42.406	42.486	0.00	0.00
ATOM	18833	CB	CYS	1262	79.895	41.317	43.375	0.00	0.00
ATOM	18834	HB2	CYS	1262	80.592	42.107	43.096	0.00	0.00
ATOM	18835	HB3	CYS	1262	79.419	41.428	44.349	0.00	0.00
ATOM	18836	SG	CYS	1262	80.786	39.647	43.215	0.00	0.00
ATOM	18837	HG	CYS	1262	80.875	39.468	44.536	0.00	0.00
ATOM	18838	C	CYS	1262	79.216	41.129	40.914	0.00	0.00
ATOM	18839	O	CYS	1262	79.894	42.017	40.339	0.00	0.00
ATOM	18840	N	ALA	1263	79.017	39.940	40.317	0.00	0.00
ATOM	18841	H	ALA	1263	78.635	39.251	40.949	0.00	0.00
ATOM	18842	CA	ALA	1263	79.421	39.660	38.974	0.00	0.00
ATOM	18843	HA	ALA	1263	80.295	40.266	38.735	0.00	0.00
ATOM	18844	CB	ALA	1263	79.807	38.203	38.844	0.00	0.00
ATOM	18845	HB1	ALA	1263	80.537	37.937	39.608	0.00	0.00
ATOM	18846	HB2	ALA	1263	78.861	37.671	38.948	0.00	0.00



ATOM	18847	HB3	ALA	1263	80.334	38.108	37.895	0.00	0.00
ATOM	18848	C	ALA	1263	78.374	40.065	37.890	0.00	0.00
ATOM	18849	O	ALA	1263	78.653	40.004	36.679	0.00	0.00
ATOM	18850	N	HIE	1264	77.235	40.536	38.328	0.00	0.00
ATOM	18851	H	HIE	1264	77.083	40.621	39.323	0.00	0.00
ATOM	18852	CA	HIE	1264	76.062	40.772	37.430	0.00	0.00
ATOM	18853	HA	HIE	1264	76.400	40.240	36.540	0.00	0.00
ATOM	18854	CB	HIE	1264	74.803	40.128	38.019	0.00	0.00
ATOM	18855	HB2	HIE	1264	74.826	40.451	39.060	0.00	0.00
ATOM	18856	HB3	HIE	1264	73.947	40.558	37.500	0.00	0.00
ATOM	18857	CG	HIE	1264	74.774	38.597	38.136	0.00	0.00
ATOM	18858	ND1	HIE	1264	75.394	37.728	37.297	0.00	0.00
ATOM	18859	CE1	HIE	1264	75.427	36.500	37.846	0.00	0.00
ATOM	18860	HE1	HIE	1264	75.772	35.543	37.482	0.00	0.00
ATOM	18861	NE2	HIE	1264	74.777	36.606	39.013	0.00	0.00
ATOM	18862	HE2	HIE	1264	74.743	35.884	39.719	0.00	0.00
ATOM	18863	CD2	HIE	1264	74.467	37.957	39.257	0.00	0.00
ATOM	18864	HD2	HIE	1264	74.054	38.518	40.082	0.00	0.00
ATOM	18865	C	HIE	1264	75.871	42.314	37.078	0.00	0.00
ATOM	18866	O	HIE	1264	75.982	43.129	38.024	0.00	0.00
ATOM	18867	N	PRO	1265	75.612	42.694	35.872	0.00	0.00
ATOM	18868	CD	PRO	1265	75.377	41.847	34.732	0.00	0.00
ATOM	18869	HD2	PRO	1265	76.265	41.283	34.447	0.00	0.00
ATOM	18870	HD3	PRO	1265	74.509	41.214	34.921	0.00	0.00
ATOM	18871	CG	PRO	1265	75.064	42.735	33.595	0.00	0.00
ATOM	18872	HG2	PRO	1265	75.263	42.307	32.612	0.00	0.00

ATOM 18873	HG3 PRO	1265	74.054	43.139	33.657	0.00	0.00
ATOM 18874	CB PRO	1265	75.968	43.961	33.997	0.00	0.00
ATOM 18875	HB2 PRO	1265	76.999	43.868	33.655	0.00	0.00
ATOM 18876	HB3 PRO	1265	75.594	44.894	33.575	0.00	0.00
ATOM 18877	CA PRO	1265	75.984	44.042	35.538	0.00	0.00
ATOM 18878	HA PRO	1265	77.018	44.243	35.818	0.00	0.00
ATOM 18879	C PRO	1265	75.021	45.146	36.018	0.00	0.00
ATOM 18880	O PRO	1265	75.314	46.356	36.105	0.00	0.00
ATOM 18881	N ASN	1266	73.773	44.702	36.376	0.00	0.00
ATOM 18882	H ASN	1266	73.491	43.753	36.175	0.00	0.00
ATOM 18883	CA ASN	1266	72.819	45.516	37.100	0.00	0.00
ATOM 18884	HA ASN	1266	73.112	46.553	36.935	0.00	0.00
ATOM 18885	CB ASN	1266	71.503	45.248	36.385	0.00	0.00
ATOM 18886	HB2 ASN	1266	70.777	45.983	36.734	0.00	0.00
ATOM 18887	HB3 ASN	1266	71.654	45.548	35.348	0.00	0.00
ATOM 18888	CG ASN	1266	70.914	43.933	36.607	0.00	0.00
ATOM 18889	OD1 ASN	1266	71.289	42.963	35.925	0.00	0.00
ATOM 18890	ND2 ASN	1266	70.318	43.704	37.752	0.00	0.00
ATOM 18891	1HD2 ASN	1266	70.164	42.738	38.005	0.00	0.00
ATOM 18892	2HD2 ASN	1266	70.218	44.456	38.419	0.00	0.00
ATOM 18893	C ASN	1266	72.842	45.364	38.629	0.00	0.00
ATOM 18894	O ASN	1266	71.910	45.792	39.294	0.00	0.00
ATOM 18895	N ILE	1267	73.882	44.860	39.228	0.00	0.00
ATOM 18896	H ILE	1267	74.634	44.495	38.661	0.00	0.00
ATOM 18897	CA ILE	1267	74.106	44.892	40.730	0.00	0.00
ATOM 18898	HA ILE	1267	73.176	45.219	41.193	0.00	0.00

ATOM 18899	CB	ILE	1267	74.420	43.436	41.126	0.00	0.00
ATOM 18900	HB	ILE	1267	75.349	43.049	40.709	0.00	0.00
ATOM 18901	CG2	ILE	1267	74.691	43.324	42.621	0.00	0.00
ATOM 18902	1HG2	ILE	1267	75.574	43.909	42.878	0.00	0.00
ATOM 18903	2HG2	ILE	1267	73.889	43.700	43.256	0.00	0.00
ATOM 18904	3HG2	ILE	1267	74.962	42.349	43.027	0.00	0.00
ATOM 18905	CG1	ILE	1267	73.230	42.415	40.784	0.00	0.00
ATOM 18906	2HG1	ILE	1267	73.281	42.345	39.698	0.00	0.00
ATOM 18907	3HG1	ILE	1267	73.502	41.462	41.238	0.00	0.00
ATOM 18908	CD1	ILE	1267	71.837	42.798	41.281	0.00	0.00
ATOM 18909	1HD1	ILE	1267	71.585	43.709	40.738	0.00	0.00
ATOM 18910	2HD1	ILE	1267	71.324	41.869	41.033	0.00	0.00
ATOM 18911	3HD1	ILE	1267	71.809	42.980	42.355	0.00	0.00
ATOM 18912	C	ILE	1267	75.248	45.775	41.106	0.00	0.00
ATOM 18913	O	ILE	1267	76.295	45.736	40.517	0.00	0.00
ATOM 18914	N	LEU	1268	75.064	46.609	42.141	0.00	0.00
ATOM 18915	H	LEU	1268	74.114	46.633	42.484	0.00	0.00
ATOM 18916	CA	LEU	1268	76.076	47.605	42.599	0.00	0.00
ATOM 18917	HA	LEU	1268	77.046	47.465	42.121	0.00	0.00
ATOM 18918	CB	LEU	1268	75.526	49.034	42.314	0.00	0.00
ATOM 18919	HB2	LEU	1268	74.681	49.327	42.937	0.00	0.00
ATOM 18920	HB3	LEU	1268	76.375	49.696	42.481	0.00	0.00
ATOM 18921	CG	LEU	1268	75.197	49.356	40.829	0.00	0.00
ATOM 18922	HG	LEU	1268	74.317	48.809	40.490	0.00	0.00
ATOM 18923	CD1	LEU	1268	74.886	50.853	40.768	0.00	0.00
ATOM 18924	1HD1	LEU	1268	74.414	51.134	39.826	0.00	0.00

ATOM 18925	2HD1	LEU	1268	74.138	51.126	41.512	0.00	0.00
ATOM 18926	3HD1	LEU	1268	75.760	51.488	40.909	0.00	0.00
ATOM 18927	CD2	LEU	1268	76.341	49.188	39.797	0.00	0.00
ATOM 18928	1HD2	LEU	1268	77.171	49.840	40.070	0.00	0.00
ATOM 18929	2HD2	LEU	1268	76.674	48.153	39.713	0.00	0.00
ATOM 18930	3HD2	LEU	1268	76.021	49.486	38.798	0.00	0.00
ATOM 18931	C	LEU	1268	76.302	47.306	44.111	0.00	0.00
ATOM 18932	O	LEU	1268	75.499	47.776	44.928	0.00	0.00
ATOM 18933	N	PRO	1269	77.293	46.505	44.488	0.00	0.00
ATOM 18934	CD	PRO	1269	78.068	45.716	43.636	0.00	0.00
ATOM 18935	HD2	PRO	1269	77.390	45.211	42.948	0.00	0.00
ATOM 18936	HD3	PRO	1269	78.738	46.314	43.020	0.00	0.00
ATOM 18937	CG	PRO	1269	78.867	44.764	44.461	0.00	0.00
ATOM 18938	HG2	PRO	1269	79.165	43.861	43.929	0.00	0.00
ATOM 18939	HG3	PRO	1269	79.740	45.266	44.878	0.00	0.00
ATOM 18940	CB	PRO	1269	77.970	44.413	45.674	0.00	0.00
ATOM 18941	HB2	PRO	1269	77.211	43.732	45.290	0.00	0.00
ATOM 18942	HB3	PRO	1269	78.529	44.040	46.533	0.00	0.00
ATOM 18943	CA	PRO	1269	77.398	45.910	45.849	0.00	0.00
ATOM 18944	HA	PRO	1269	76.386	45.799	46.239	0.00	0.00
ATOM 18945	C	PRO	1269	78.224	46.751	46.907	0.00	0.00
ATOM 18946	O	PRO	1269	79.203	47.407	46.580	0.00	0.00
ATOM 18947	N	SER	1270	77.763	46.563	48.211	0.00	0.00
ATOM 18948	H	SER	1270	76.906	46.064	48.403	0.00	0.00
ATOM 18949	CA	SER	1270	78.580	46.928	49.454	0.00	0.00
ATOM 18950	HA	SER	1270	79.603	47.008	49.086	0.00	0.00

ATOM 18951	CB	SER 1270	78.050	48.140	50.097	0.00	0.00
ATOM 18952	HB2	SER 1270	78.918	48.533	50.626	0.00	0.00
ATOM 18953	HB3	SER 1270	77.754	48.967	49.452	0.00	0.00
ATOM 18954	OG	SER 1270	76.950	47.957	50.998	0.00	0.00
ATOM 18955	HG	SER 1270	76.889	48.774	51.497	0.00	0.00
ATOM 18956	C	SER 1270	78.624	45.738	50.438	0.00	0.00
ATOM 18957	O	SER 1270	77.842	44.791	50.441	0.00	0.00
ATOM 18958	N	SER 1271	79.525	45.856	51.477	0.00	0.00
ATOM 18959	H	SER 1271	80.129	46.663	51.414	0.00	0.00
ATOM 18960	CA	SER 1271	79.784	45.056	52.670	0.00	0.00
ATOM 18961	HA	SER 1271	79.677	43.989	52.477	0.00	0.00
ATOM 18962	CB	SER 1271	81.296	45.133	53.085	0.00	0.00
ATOM 18963	HB2	SER 1271	81.503	44.442	53.902	0.00	0.00
ATOM 18964	HB3	SER 1271	81.902	45.089	52.180	0.00	0.00
ATOM 18965	OG	SER 1271	81.391	46.422	53.650	0.00	0.00
ATOM 18966	HG	SER 1271	80.948	46.369	54.501	0.00	0.00
ATOM 18967	C	SER 1271	78.792	45.310	53.764	0.00	0.00
ATOM 18968	O	SER 1271	78.091	46.334	53.742	0.00	0.00
ATOM 18969	N	THR 1272	78.832	44.403	54.787	0.00	0.00
ATOM 18970	H	THR 1272	79.357	43.542	54.721	0.00	0.00
ATOM 18971	CA	THR 1272	78.512	44.827	56.206	0.00	0.00
ATOM 18972	HA	THR 1272	77.635	45.461	56.076	0.00	0.00
ATOM 18973	CB	THR 1272	78.095	43.584	57.042	0.00	0.00
ATOM 18974	HB	THR 1272	78.946	43.193	57.601	0.00	0.00
ATOM 18975	CG2	THR 1272	77.023	43.939	58.037	0.00	0.00
ATOM 18976	1HG2	THR 1272	76.116	44.186	57.485	0.00	0.00

ATOM 18977	2HG2	THR	1272	76.859	43.096	58.709	0.00	0.00
ATOM 18978	3HG2	THR	1272	77.372	44.787	58.627	0.00	0.00
ATOM 18979	OG1	THR	1272	77.639	42.459	56.267	0.00	0.00
ATOM 18980	HG1	THR	1272	78.427	42.303	55.742	0.00	0.00
ATOM 18981	C	THR	1272	79.563	45.794	56.721	0.00	0.00
ATOM 18982	O	THR	1272	80.572	46.077	56.074	0.00	0.00
ATOM 18983	N	ASN	1273	79.314	46.319	57.910	0.00	0.00
ATOM 18984	H	ASN	1273	78.462	46.025	58.365	0.00	0.00
ATOM 18985	CA	ASN	1273	80.209	47.224	58.686	0.00	0.00
ATOM 18986	HA	ASN	1273	81.058	47.553	58.087	0.00	0.00
ATOM 18987	CB	ASN	1273	79.414	48.411	59.127	0.00	0.00
ATOM 18988	HB2	ASN	1273	78.876	48.821	58.273	0.00	0.00
ATOM 18989	HB3	ASN	1273	78.630	47.941	59.722	0.00	0.00
ATOM 18990	CG	ASN	1273	80.139	49.663	59.774	0.00	0.00
ATOM 18991	OD1	ASN	1273	80.442	49.647	60.946	0.00	0.00
ATOM 18992	ND2	ASN	1273	80.567	50.658	59.063	0.00	0.00
ATOM 18993	1HD2	ASN	1273	80.985	51.421	59.577	0.00	0.00
ATOM 18994	2HD2	ASN	1273	80.505	50.729	58.058	0.00	0.00
ATOM 18995	C	ASN	1273	81.041	46.480	59.780	0.00	0.00
ATOM 18996	O	ASN	1273	82.170	46.791	59.813	0.00	0.00
ATOM 18997	N	PRO	1274	80.565	45.536	60.605	0.00	0.00
ATOM 18998	CD	PRO	1274	79.136	45.081	60.795	0.00	0.00
ATOM 18999	HD2	PRO	1274	78.384	45.819	60.516	0.00	0.00
ATOM 19000	HD3	PRO	1274	78.952	44.217	60.157	0.00	0.00
ATOM 19001	CG	PRO	1274	79.109	44.516	62.205	0.00	0.00
ATOM 19002	HG2	PRO	1274	78.869	45.281	62.944	0.00	0.00

ATOM 19003	HG3 PRO	1274	78.287	43.800	62.187	0.00	0.00
ATOM 19004	CB PRO	1274	80.461	43.813	62.339	0.00	0.00
ATOM 19005	HB2 PRO	1274	80.733	43.736	63.392	0.00	0.00
ATOM 19006	HB3 PRO	1274	80.476	42.859	61.813	0.00	0.00
ATOM 19007	CA PRO	1274	81.426	44.793	61.581	0.00	0.00
ATOM 19008	HA PRO	1274	81.905	45.469	62.288	0.00	0.00
ATOM 19009	C PRO	1274	82.551	44.027	60.872	0.00	0.00
ATOM 19010	O PRO	1274	83.552	43.767	61.518	0.00	0.00
ATOM 19011	N THR	1275	82.353	43.553	59.625	0.00	0.00
ATOM 19012	H THR	1275	81.629	43.884	59.003	0.00	0.00
ATOM 19013	CA THR	1275	83.275	42.720	58.866	0.00	0.00
ATOM 19014	HA THR	1275	83.875	42.043	59.474	0.00	0.00
ATOM 19015	CB THR	1275	82.443	41.922	57.790	0.00	0.00
ATOM 19016	HB THR	1275	83.123	41.491	57.056	0.00	0.00
ATOM 19017	CG2 THR	1275	81.580	40.920	58.515	0.00	0.00
ATOM 19018	1HG2 THR	1275	81.074	40.390	57.709	0.00	0.00
ATOM 19019	2HG2 THR	1275	82.229	40.267	59.099	0.00	0.00
ATOM 19020	3HG2 THR	1275	80.894	41.493	59.140	0.00	0.00
ATOM 19021	OG1 THR	1275	81.577	42.897	57.192	0.00	0.00
ATOM 19022	HG1 THR	1275	81.158	42.498	56.426	0.00	0.00
ATOM 19023	C THR	1275	84.271	43.557	58.026	0.00	0.00
ATOM 19024	O THR	1275	84.989	43.010	57.242	0.00	0.00
ATOM 19025	N LEU	1276	84.354	44.892	58.233	0.00	0.00
ATOM 19026	H LEU	1276	83.557	45.369	58.629	0.00	0.00
ATOM 19027	CA LEU	1276	85.380	45.749	57.620	0.00	0.00
ATOM 19028	HA LEU	1276	85.779	45.255	56.734	0.00	0.00

ATOM 19029	CB LEU 1276	84.532	47.010	57.150	0.00	0.00
ATOM 19030	HB2 LEU 1276	83.541	46.664	56.856	0.00	0.00
ATOM 19031	HB3 LEU 1276	84.484	47.709	57.985	0.00	0.00
ATOM 19032	CG LEU 1276	85.081	47.834	56.002	0.00	0.00
ATOM 19033	HG LEU 1276	86.126	48.034	56.241	0.00	0.00
ATOM 19034	CD1 LEU 1276	84.939	47.172	54.632	0.00	0.00
ATOM 19035	1HD1 LEU 1276	85.272	46.137	54.703	0.00	0.00
ATOM 19036	2HD1 LEU 1276	83.873	47.178	54.402	0.00	0.00
ATOM 19037	3HD1 LEU 1276	85.422	47.802	53.885	0.00	0.00
ATOM 19038	CD2 LEU 1276	84.402	49.170	55.782	0.00	0.00
ATOM 19039	1HD2 LEU 1276	84.993	49.790	55.108	0.00	0.00
ATOM 19040	2HD2 LEU 1276	83.427	49.082	55.302	0.00	0.00
ATOM 19041	3HD2 LEU 1276	84.230	49.732	56.701	0.00	0.00
ATOM 19042	C LEU 1276	86.605	46.137	58.525	0.00	0.00
ATOM 19043	O LEU 1276	86.435	47.044	59.384	0.00	0.00
ATOM 19044	N PRO 1277	87.697	45.420	58.526	0.00	0.00
ATOM 19045	CD PRO 1277	88.870	45.951	59.149	0.00	0.00
ATOM 19046	HD2 PRO 1277	89.077	46.876	58.610	0.00	0.00
ATOM 19047	HD3 PRO 1277	88.550	46.082	60.183	0.00	0.00
ATOM 19048	CG PRO 1277	89.917	44.815	59.043	0.00	0.00
ATOM 19049	HG2 PRO 1277	90.902	45.222	58.815	0.00	0.00
ATOM 19050	HG3 PRO 1277	90.027	44.215	59.946	0.00	0.00
ATOM 19051	CB PRO 1277	89.402	43.917	57.879	0.00	0.00
ATOM 19052	HB2 PRO 1277	89.783	44.218	56.903	0.00	0.00
ATOM 19053	HB3 PRO 1277	89.783	42.904	58.008	0.00	0.00
ATOM 19054	CA PRO 1277	87.868	44.039	58.067	0.00	0.00



ATOM	19055	HA	PRO	1277	87.424	43.818	57.096	0.00	0.00
ATOM	19056	C	PRO	1277	87.487	43.003	59.140	0.00	0.00
ATOM	19057	O	PRO	1277	87.021	43.333	60.226	0.00	0.00
ATOM	19058	N	TYR	1278	87.550	41.671	58.805	0.00	0.00
ATOM	19059	H	TYR	1278	87.796	41.405	57.862	0.00	0.00
ATOM	19060	CA	TYR	1278	87.212	40.604	59.697	0.00	0.00
ATOM	19061	HA	TYR	1278	86.313	40.826	60.271	0.00	0.00
ATOM	19062	CB	TYR	1278	86.932	39.434	58.713	0.00	0.00
ATOM	19063	HB2	TYR	1278	86.081	39.650	58.067	0.00	0.00
ATOM	19064	HB3	TYR	1278	87.770	39.255	58.040	0.00	0.00
ATOM	19065	CG	TYR	1278	86.630	38.150	59.400	0.00	0.00
ATOM	19066	CD1	TYR	1278	85.347	38.067	59.958	0.00	0.00
ATOM	19067	HD1	TYR	1278	84.712	38.931	59.827	0.00	0.00
ATOM	19068	CE1	TYR	1278	84.851	36.857	60.496	0.00	0.00
ATOM	19069	HE1	TYR	1278	83.846	36.751	60.879	0.00	0.00
ATOM	19070	CZ	TYR	1278	85.807	35.810	60.605	0.00	0.00
ATOM	19071	OH	TYR	1278	85.352	34.762	61.355	0.00	0.00
ATOM	19072	HH	TYR	1278	85.979	34.061	61.164	0.00	0.00
ATOM	19073	CE2	TYR	1278	87.078	35.825	59.994	0.00	0.00
ATOM	19074	HE2	TYR	1278	87.706	34.955	60.115	0.00	0.00
ATOM	19075	CD2	TYR	1278	87.459	36.993	59.278	0.00	0.00
ATOM	19076	HD2	TYR	1278	88.489	37.033	58.954	0.00	0.00
ATOM	19077	C	TYR	1278	88.298	40.368	60.779	0.00	0.00
ATOM	19078	O	TYR	1278	89.303	39.738	60.489	0.00	0.00
ATOM	19079	N	THR	1279	88.091	40.813	62.039	0.00	0.00
ATOM	19080	H	THR	1279	87.280	41.393	62.204	0.00	0.00

ATOM	19081	CA	THR	1279	88.946	40.503	63.267	0.00	0.00
ATOM	19082	HA	THR	1279	89.922	40.164	62.919	0.00	0.00
ATOM	19083	CB	THR	1279	89.248	41.817	64.026	0.00	0.00
ATOM	19084	HB	THR	1279	90.216	41.833	64.527	0.00	0.00
ATOM	19085	CG2	THR	1279	89.366	43.160	63.240	0.00	0.00
ATOM	19086	1HG2	THR	1279	90.334	43.641	63.386	0.00	0.00
ATOM	19087	2HG2	THR	1279	89.337	42.871	62.190	0.00	0.00
ATOM	19088	3HG2	THR	1279	88.536	43.842	63.425	0.00	0.00
ATOM	19089	OG1	THR	1279	88.270	42.033	65.083	0.00	0.00
ATOM	19090	HG1	THR	1279	88.668	42.674	65.677	0.00	0.00
ATOM	19091	C	THR	1279	88.362	39.450	64.157	0.00	0.00
ATOM	19092	O	THR	1279	87.180	39.147	64.084	0.00	0.00
ATOM	19093	N	LEU	1280	89.232	38.792	64.899	0.00	0.00
ATOM	19094	H	LEU	1280	90.137	39.241	64.909	0.00	0.00
ATOM	19095	CA	LEU	1280	88.853	37.724	65.891	0.00	0.00
ATOM	19096	HA	LEU	1280	88.402	36.877	65.375	0.00	0.00
ATOM	19097	CB	LEU	1280	90.168	37.234	66.421	0.00	0.00
ATOM	19098	HB2	LEU	1280	90.888	37.093	65.614	0.00	0.00
ATOM	19099	HB3	LEU	1280	90.536	37.950	67.156	0.00	0.00
ATOM	19100	CG	LEU	1280	90.055	35.891	67.136	0.00	0.00
ATOM	19101	HG	LEU	1280	89.547	36.026	68.091	0.00	0.00
ATOM	19102	CD1	LEU	1280	89.254	34.778	66.457	0.00	0.00
ATOM	19103	1HD1	LEU	1280	89.390	34.945	65.388	0.00	0.00
ATOM	19104	2HD1	LEU	1280	89.448	33.732	66.691	0.00	0.00
ATOM	19105	3HD1	LEU	1280	88.181	34.821	66.642	0.00	0.00
ATOM	19106	CD2	LEU	1280	91.458	35.343	67.432	0.00	0.00

ATOM	19107	1HD2	LEU	1280	91.936	36.044	68.117	0.00	0.00
ATOM	19108	2HD2	LEU	1280	91.358	34.362	67.897	0.00	0.00
ATOM	19109	3HD2	LEU	1280	92.059	35.170	66.539	0.00	0.00
ATOM	19110	C	LEU	1280	87.889	38.215	66.965	0.00	0.00
ATOM	19111	O	LEU	1280	87.257	37.297	67.508	0.00	0.00
ATOM	19112	N	ASN	1281	87.695	39.573	67.136	0.00	0.00
ATOM	19113	H	ASN	1281	88.315	40.225	66.677	0.00	0.00
ATOM	19114	CA	ASN	1281	86.544	40.088	67.956	0.00	0.00
ATOM	19115	HA	ASN	1281	86.276	39.253	68.603	0.00	0.00
ATOM	19116	CB	ASN	1281	87.110	41.322	68.839	0.00	0.00
ATOM	19117	HB2	ASN	1281	87.635	42.068	68.243	0.00	0.00
ATOM	19118	HB3	ASN	1281	86.272	41.887	69.247	0.00	0.00
ATOM	19119	CG	ASN	1281	88.039	40.904	69.931	0.00	0.00
ATOM	19120	OD1	ASN	1281	87.603	40.917	71.073	0.00	0.00
ATOM	19121	ND2	ASN	1281	89.214	40.430	69.713	0.00	0.00
ATOM	19122	1HD2	ASN	1281	89.758	40.151	70.517	0.00	0.00
ATOM	19123	2HD2	ASN	1281	89.667	40.599	68.826	0.00	0.00
ATOM	19124	C	ASN	1281	85.272	40.540	67.140	0.00	0.00
ATOM	19125	O	ASN	1281	84.280	40.675	67.789	0.00	0.00
ATOM	19126	N	THR	1282	85.331	40.623	65.777	0.00	0.00
ATOM	19127	H	THR	1282	86.213	40.408	65.334	0.00	0.00
ATOM	19128	CA	THR	1282	84.171	40.707	64.875	0.00	0.00
ATOM	19129	HA	THR	1282	83.557	41.591	65.048	0.00	0.00
ATOM	19130	CB	THR	1282	84.669	40.867	63.446	0.00	0.00
ATOM	19131	HB	THR	1282	85.451	40.147	63.205	0.00	0.00
ATOM	19132	CG2	THR	1282	83.587	40.684	62.338	0.00	0.00

ATOM	19133	1HG2	THR	1282	84.077	40.816	61.374	0.00	0.00
ATOM	19134	2HG2	THR	1282	83.192	39.671	62.416	0.00	0.00
ATOM	19135	3HG2	THR	1282	82.753	41.370	62.483	0.00	0.00
ATOM	19136	OG1	THR	1282	85.302	42.112	63.272	0.00	0.00
ATOM	19137	HG1	THR	1282	84.701	42.657	62.758	0.00	0.00
ATOM	19138	C	THR	1282	83.340	39.435	64.973	0.00	0.00
ATOM	19139	O	THR	1282	82.125	39.636	65.064	0.00	0.00
ATOM	19140	N	ILE	1283	83.871	38.224	65.050	0.00	0.00
ATOM	19141	H	ILE	1283	84.874	38.124	64.975	0.00	0.00
ATOM	19142	CA	ILE	1283	83.179	36.982	65.114	0.00	0.00
ATOM	19143	HA	ILE	1283	82.335	37.088	64.433	0.00	0.00
ATOM	19144	CB	ILE	1283	84.144	35.912	64.550	0.00	0.00
ATOM	19145	HB	ILE	1283	84.448	36.317	63.585	0.00	0.00
ATOM	19146	CG2	ILE	1283	85.364	35.705	65.451	0.00	0.00
ATOM	19147	1HG2	ILE	1283	86.044	34.930	65.099	0.00	0.00
ATOM	19148	2HG2	ILE	1283	85.983	36.592	65.587	0.00	0.00
ATOM	19149	3HG2	ILE	1283	85.119	35.518	66.496	0.00	0.00
ATOM	19150	CG1	ILE	1283	83.469	34.548	64.264	0.00	0.00
ATOM	19151	2HG1	ILE	1283	84.186	33.882	63.784	0.00	0.00
ATOM	19152	3HG1	ILE	1283	83.204	33.989	65.161	0.00	0.00
ATOM	19153	CD1	ILE	1283	82.188	34.507	63.367	0.00	0.00
ATOM	19154	1HD1	ILE	1283	81.837	33.487	63.208	0.00	0.00
ATOM	19155	2HD1	ILE	1283	81.361	35.027	63.852	0.00	0.00
ATOM	19156	3HD1	ILE	1283	82.498	34.893	62.396	0.00	0.00
ATOM	19157	C	ILE	1283	82.610	36.612	66.449	0.00	0.00
ATOM	19158	O	ILE	1283	81.846	35.654	66.540	0.00	0.00

ATOM	19159	N	ASP	1284	82.917	37.406	67.483	0.00	0.00
ATOM	19160	H	ASP	1284	83.584	38.144	67.307	0.00	0.00
ATOM	19161	CA	ASP	1284	82.082	37.478	68.692	0.00	0.00
ATOM	19162	HA	ASP	1284	81.516	36.551	68.782	0.00	0.00
ATOM	19163	CB	ASP	1284	82.863	37.606	70.032	0.00	0.00
ATOM	19164	HB2	ASP	1284	83.572	38.433	69.996	0.00	0.00
ATOM	19165	HB3	ASP	1284	82.188	37.931	70.823	0.00	0.00
ATOM	19166	CG	ASP	1284	83.602	36.335	70.457	0.00	0.00
ATOM	19167	OD1	ASP	1284	82.941	35.281	70.694	0.00	0.00
ATOM	19168	OD2	ASP	1284	84.882	36.410	70.652	0.00	0.00
ATOM	19169	C	ASP	1284	80.995	38.503	68.696	0.00	0.00
ATOM	19170	O	ASP	1284	79.808	38.166	68.878	0.00	0.00
ATOM	19171	N	GLU	1285	81.304	39.768	68.512	0.00	0.00
ATOM	19172	H	GLU	1285	82.210	40.078	68.191	0.00	0.00
ATOM	19173	CA	GLU	1285	80.302	40.841	68.778	0.00	0.00
ATOM	19174	HA	GLU	1285	79.923	40.801	69.799	0.00	0.00
ATOM	19175	CB	GLU	1285	80.860	42.264	68.517	0.00	0.00
ATOM	19176	HB2	GLU	1285	80.032	42.972	68.560	0.00	0.00
ATOM	19177	HB3	GLU	1285	81.598	42.520	69.278	0.00	0.00
ATOM	19178	CG	GLU	1285	81.497	42.496	67.110	0.00	0.00
ATOM	19179	HG2	GLU	1285	82.297	41.761	67.017	0.00	0.00
ATOM	19180	HG3	GLU	1285	80.804	42.271	66.300	0.00	0.00
ATOM	19181	CD	GLU	1285	82.239	43.781	66.911	0.00	0.00
ATOM	19182	OE1	GLU	1285	81.910	44.720	67.683	0.00	0.00
ATOM	19183	OE2	GLU	1285	83.114	43.916	65.991	0.00	0.00
ATOM	19184	C	GLU	1285	79.055	40.711	67.918	0.00	0.00

ATOM	19185	O	GLU	1285	77.954	41.198	68.165	0.00	0.00
ATOM	19186	N	HID	1286	79.349	40.286	66.655	0.00	0.00
ATOM	19187	H	HID	1286	80.303	40.071	66.406	0.00	0.00
ATOM	19188	CA	HID	1286	78.385	40.226	65.513	0.00	0.00
ATOM	19189	HA	HID	1286	77.921	41.212	65.512	0.00	0.00
ATOM	19190	CB	HID	1286	79.136	39.948	64.164	0.00	0.00
ATOM	19191	HB2	HID	1286	80.047	40.540	64.253	0.00	0.00
ATOM	19192	HB3	HID	1286	79.473	38.917	64.059	0.00	0.00
ATOM	19193	CG	HID	1286	78.377	40.416	62.921	0.00	0.00
ATOM	19194	ND1	HID	1286	77.063	40.708	62.730	0.00	0.00
ATOM	19195	HD1	HID	1286	76.345	40.708	63.440	0.00	0.00
ATOM	19196	CE1	HID	1286	76.849	40.873	61.421	0.00	0.00
ATOM	19197	HE1	HID	1286	75.933	41.000	60.863	0.00	0.00
ATOM	19198	NE2	HID	1286	77.992	40.720	60.713	0.00	0.00
ATOM	19199	CD2	HID	1286	78.992	40.411	61.690	0.00	0.00
ATOM	19200	HD2	HID	1286	80.007	40.071	61.544	0.00	0.00
ATOM	19201	C	HID	1286	77.355	39.138	65.694	0.00	0.00
ATOM	19202	O	HID	1286	76.300	39.344	65.120	0.00	0.00
ATOM	19203	N	LEU	1287	77.769	38.066	66.353	0.00	0.00
ATOM	19204	H	LEU	1287	78.702	38.078	66.740	0.00	0.00
ATOM	19205	CA	LEU	1287	76.885	36.983	66.796	0.00	0.00
ATOM	19206	HA	LEU	1287	76.130	36.756	66.043	0.00	0.00
ATOM	19207	CB	LEU	1287	77.751	35.732	66.997	0.00	0.00
ATOM	19208	HB2	LEU	1287	78.446	35.636	66.163	0.00	0.00
ATOM	19209	HB3	LEU	1287	78.457	36.050	67.764	0.00	0.00
ATOM	19210	CG	LEU	1287	77.049	34.402	67.203	0.00	0.00

ATOM 19211	HG	LEU	1287	76.291	34.542	67.974	0.00	0.00
ATOM 19212	CD1	LEU	1287	76.352	33.785	66.050	0.00	0.00
ATOM 19213	1HD1	LEU	1287	75.407	34.328	66.084	0.00	0.00
ATOM 19214	2HD1	LEU	1287	76.874	33.853	65.095	0.00	0.00
ATOM 19215	3HD1	LEU	1287	76.054	32.753	66.234	0.00	0.00
ATOM 19216	CD2	LEU	1287	77.946	33.271	67.674	0.00	0.00
ATOM 19217	1HD2	LEU	1287	78.635	33.026	66.866	0.00	0.00
ATOM 19218	2HD2	LEU	1287	78.556	33.508	68.546	0.00	0.00
ATOM 19219	3HD2	LEU	1287	77.350	32.415	67.991	0.00	0.00
ATOM 19220	C	LEU	1287	76.167	37.446	68.114	0.00	0.00
ATOM 19221	O	LEU	1287	75.130	36.952	68.447	0.00	0.00
ATOM 19222	N	ASP	1288	76.840	38.334	68.882	0.00	0.00
ATOM 19223	H	ASP	1288	77.727	38.622	68.495	0.00	0.00
ATOM 19224	CA	ASP	1288	76.260	38.885	70.133	0.00	0.00
ATOM 19225	HA	ASP	1288	76.093	37.986	70.727	0.00	0.00
ATOM 19226	CB	ASP	1288	77.259	39.707	70.982	0.00	0.00
ATOM 19227	HB2	ASP	1288	78.059	39.052	71.327	0.00	0.00
ATOM 19228	HB3	ASP	1288	77.553	40.602	70.434	0.00	0.00
ATOM 19229	CG	ASP	1288	76.609	40.193	72.309	0.00	0.00
ATOM 19230	OD1	ASP	1288	76.166	41.378	72.327	0.00	0.00
ATOM 19231	OD2	ASP	1288	76.359	39.415	73.278	0.00	0.00
ATOM 19232	C	ASP	1288	74.948	39.680	69.906	0.00	0.00
ATOM 19233	O	ASP	1288	73.927	39.279	70.465	0.00	0.00
ATOM 19234	N	MET	1289	74.995	40.689	69.003	0.00	0.00
ATOM 19235	H	MET	1289	75.871	40.853	68.526	0.00	0.00
ATOM 19236	CA	MET	1289	73.993	41.736	68.856	0.00	0.00

ATOM 19237	HA	MET	1289	73.848	42.261	69.800	0.00	0.00
ATOM 19238	CB	MET	1289	74.660	42.848	67.935	0.00	0.00
ATOM 19239	HB2	MET	1289	73.875	43.578	67.733	0.00	0.00
ATOM 19240	HB3	MET	1289	75.437	43.308	68.545	0.00	0.00
ATOM 19241	CG	MET	1289	75.211	42.404	66.576	0.00	0.00
ATOM 19242	HG2	MET	1289	75.975	41.631	66.664	0.00	0.00
ATOM 19243	HG3	MET	1289	74.414	41.961	65.978	0.00	0.00
ATOM 19244	SD	MET	1289	75.869	43.641	65.413	0.00	0.00
ATOM 19245	CE	MET	1289	77.227	44.254	66.358	0.00	0.00
ATOM 19246	HE1	MET	1289	77.903	44.695	65.624	0.00	0.00
ATOM 19247	HE2	MET	1289	76.945	44.940	67.157	0.00	0.00
ATOM 19248	HE3	MET	1289	77.872	43.455	66.724	0.00	0.00
ATOM 19249	C	MET	1289	72.686	41.164	68.327	0.00	0.00
ATOM 19250	O	MET	1289	71.574	41.730	68.524	0.00	0.00
ATOM 19251	N	LEU	1290	72.696	39.958	67.758	0.00	0.00
ATOM 19252	H	LEU	1290	73.541	39.428	67.919	0.00	0.00
ATOM 19253	CA	LEU	1290	71.544	39.317	67.199	0.00	0.00
ATOM 19254	HA	LEU	1290	71.211	39.951	66.377	0.00	0.00
ATOM 19255	CB	LEU	1290	71.993	37.992	66.600	0.00	0.00
ATOM 19256	HB2	LEU	1290	71.080	37.646	66.115	0.00	0.00
ATOM 19257	HB3	LEU	1290	72.321	37.392	67.448	0.00	0.00
ATOM 19258	CG	LEU	1290	73.057	37.963	65.537	0.00	0.00
ATOM 19259	HG	LEU	1290	73.990	38.283	66.001	0.00	0.00
ATOM 19260	CD1	LEU	1290	73.275	36.544	65.101	0.00	0.00
ATOM 19261	1HD1	LEU	1290	74.165	36.628	64.478	0.00	0.00
ATOM 19262	2HD1	LEU	1290	73.454	35.880	65.947	0.00	0.00



ATOM	19263	3HD1	LEU	1290	72.413	36.208	64.525	0.00	0.00
ATOM	19264	CD2	LEU	1290	72.844	38.841	64.316	0.00	0.00
ATOM	19265	1HD2	LEU	1290	72.701	39.912	64.462	0.00	0.00
ATOM	19266	2HD2	LEU	1290	73.799	38.797	63.793	0.00	0.00
ATOM	19267	3HD2	LEU	1290	72.011	38.455	63.728	0.00	0.00
ATOM	19268	C	LEU	1290	70.388	39.124	68.187	0.00	0.00
ATOM	19269	O	LEU	1290	69.239	38.901	67.796	0.00	0.00
ATOM	19270	N	MET	1291	70.686	39.111	69.481	0.00	0.00
ATOM	19271	H	MET	1291	71.626	39.009	69.834	0.00	0.00
ATOM	19272	CA	MET	1291	69.621	38.999	70.540	0.00	0.00
ATOM	19273	HA	MET	1291	68.902	38.259	70.189	0.00	0.00
ATOM	19274	CB	MET	1291	70.265	38.404	71.787	0.00	0.00
ATOM	19275	HB2	MET	1291	71.230	38.880	71.959	0.00	0.00
ATOM	19276	HB3	MET	1291	69.611	38.625	72.630	0.00	0.00
ATOM	19277	CG	MET	1291	70.486	36.896	71.682	0.00	0.00
ATOM	19278	HG2	MET	1291	71.124	36.539	72.491	0.00	0.00
ATOM	19279	HG3	MET	1291	69.557	36.357	71.868	0.00	0.00
ATOM	19280	SD	MET	1291	71.279	36.205	70.142	0.00	0.00
ATOM	19281	CE	MET	1291	69.769	35.811	69.272	0.00	0.00
ATOM	19282	HE1	MET	1291	69.353	36.746	68.898	0.00	0.00
ATOM	19283	HE2	MET	1291	69.880	35.117	68.440	0.00	0.00
ATOM	19284	HE3	MET	1291	69.033	35.463	69.996	0.00	0.00
ATOM	19285	C	MET	1291	68.903	40.366	70.772	0.00	0.00
ATOM	19286	O	MET	1291	67.805	40.283	71.340	0.00	0.00
ATOM	19287	N	VAL	1292	69.471	41.499	70.316	0.00	0.00
ATOM	19288	H	VAL	1292	70.359	41.449	69.837	0.00	0.00

ATOM	19289	CA	VAL	1292	68.775	42.792	70.357	0.00	0.00
ATOM	19290	HA	VAL	1292	67.984	42.651	71.093	0.00	0.00
ATOM	19291	CB	VAL	1292	69.762	43.946	70.723	0.00	0.00
ATOM	19292	HB	VAL	1292	70.579	43.981	70.002	0.00	0.00
ATOM	19293	CG1	VAL	1292	69.035	45.311	70.834	0.00	0.00
ATOM	19294	1HG1	VAL	1292	68.492	45.563	69.923	0.00	0.00
ATOM	19295	2HG1	VAL	1292	68.233	45.242	71.569	0.00	0.00
ATOM	19296	3HG1	VAL	1292	69.803	46.004	71.178	0.00	0.00
ATOM	19297	CG2	VAL	1292	70.468	43.746	72.061	0.00	0.00
ATOM	19298	1HG2	VAL	1292	71.038	42.825	71.939	0.00	0.00
ATOM	19299	2HG2	VAL	1292	71.100	44.628	72.165	0.00	0.00
ATOM	19300	3HG2	VAL	1292	69.909	43.585	72.983	0.00	0.00
ATOM	19301	C	VAL	1292	68.207	43.051	68.926	0.00	0.00
ATOM	19302	O	VAL	1292	67.016	43.365	68.838	0.00	0.00
ATOM	19303	N	CYS	1293	68.997	42.917	67.837	0.00	0.00
ATOM	19304	H	CYS	1293	69.941	42.560	67.874	0.00	0.00
ATOM	19305	CA	CYS	1293	68.597	43.219	66.527	0.00	0.00
ATOM	19306	HA	CYS	1293	68.285	44.262	66.582	0.00	0.00
ATOM	19307	CB	CYS	1293	69.769	43.028	65.518	0.00	0.00
ATOM	19308	HB2	CYS	1293	70.111	41.993	65.507	0.00	0.00
ATOM	19309	HB3	CYS	1293	69.385	43.174	64.508	0.00	0.00
ATOM	19310	SG	CYS	1293	71.310	44.008	65.949	0.00	0.00
ATOM	19311	HG	CYS	1293	70.756	45.211	65.775	0.00	0.00
ATOM	19312	C	CYS	1293	67.334	42.402	66.031	0.00	0.00
ATOM	19313	O	CYS	1293	66.689	42.828	65.021	0.00	0.00
ATOM	19314	N	HID	1294	66.900	41.291	66.662	0.00	0.00

ATOM	19315	H	HID	1294	67.497	41.029	67.433	0.00	0.00
ATOM	19316	CA	HID	1294	65.730	40.467	66.388	0.00	0.00
ATOM	19317	HA	HID	1294	65.024	41.006	65.755	0.00	0.00
ATOM	19318	CB	HID	1294	66.207	39.167	65.690	0.00	0.00
ATOM	19319	HB2	HID	1294	66.851	38.601	66.363	0.00	0.00
ATOM	19320	HB3	HID	1294	65.394	38.503	65.397	0.00	0.00
ATOM	19321	CG	HID	1294	66.938	39.306	64.378	0.00	0.00
ATOM	19322	ND1	HID	1294	66.542	40.018	63.217	0.00	0.00
ATOM	19323	HD1	HID	1294	65.737	40.621	63.122	0.00	0.00
ATOM	19324	CE1	HID	1294	67.521	40.083	62.367	0.00	0.00
ATOM	19325	HE1	HID	1294	67.516	40.580	61.408	0.00	0.00
ATOM	19326	NE2	HID	1294	68.542	39.484	62.888	0.00	0.00
ATOM	19327	CD2	HID	1294	68.257	38.973	64.153	0.00	0.00
ATOM	19328	HD2	HID	1294	68.913	38.377	64.769	0.00	0.00
ATOM	19329	C	HID	1294	64.822	40.318	67.627	0.00	0.00
ATOM	19330	O	HID	1294	63.848	39.574	67.608	0.00	0.00
ATOM	19331	N	HIE	1295	65.185	40.968	68.759	0.00	0.00
ATOM	19332	H	HIE	1295	65.990	41.559	68.611	0.00	0.00
ATOM	19333	CA	HIE	1295	64.488	40.969	70.057	0.00	0.00
ATOM	19334	HA	HIE	1295	65.194	41.236	70.844	0.00	0.00
ATOM	19335	CB	HIE	1295	63.343	42.020	70.082	0.00	0.00
ATOM	19336	HB2	HIE	1295	62.555	41.871	69.345	0.00	0.00
ATOM	19337	HB3	HIE	1295	62.850	42.028	71.055	0.00	0.00
ATOM	19338	CG	HIE	1295	63.925	43.404	70.086	0.00	0.00
ATOM	19339	ND1	HIE	1295	64.837	43.856	71.027	0.00	0.00
ATOM	19340	CE1	HIE	1295	65.127	45.137	70.680	0.00	0.00

ATOM	19341	HE1	HIE	1295	65.807	45.822	71.166	0.00	0.00
ATOM	19342	NE2	HIE	1295	64.358	45.437	69.610	0.00	0.00
ATOM	19343	HE2	HIE	1295	64.277	46.307	69.103	0.00	0.00
ATOM	19344	CD2	HIE	1295	63.685	44.375	69.167	0.00	0.00
ATOM	19345	HD2	HIE	1295	63.029	44.321	68.311	0.00	0.00
ATOM	19346	C	HIE	1295	64.110	39.588	70.486	0.00	0.00
ATOM	19347	O	HIE	1295	62.958	39.178	70.510	0.00	0.00
ATOM	19348	N	LEU	1296	65.104	38.758	70.858	0.00	0.00
ATOM	19349	H	LEU	1296	66.064	39.070	70.853	0.00	0.00
ATOM	19350	CA	LEU	1296	65.079	37.353	71.249	0.00	0.00
ATOM	19351	HA	LEU	1296	64.065	36.987	71.087	0.00	0.00
ATOM	19352	CB	LEU	1296	65.885	36.556	70.213	0.00	0.00
ATOM	19353	HB2	LEU	1296	66.929	36.871	70.226	0.00	0.00
ATOM	19354	HB3	LEU	1296	65.816	35.557	70.644	0.00	0.00
ATOM	19355	CG	LEU	1296	65.384	36.691	68.728	0.00	0.00
ATOM	19356	HG	LEU	1296	65.362	37.749	68.469	0.00	0.00
ATOM	19357	CD1	LEU	1296	66.344	36.015	67.741	0.00	0.00
ATOM	19358	1HD1	LEU	1296	67.355	36.341	67.985	0.00	0.00
ATOM	19359	2HD1	LEU	1296	66.293	34.933	67.870	0.00	0.00
ATOM	19360	3HD1	LEU	1296	66.058	36.224	66.711	0.00	0.00
ATOM	19361	CD2	LEU	1296	64.032	36.063	68.635	0.00	0.00
ATOM	19362	1HD2	LEU	1296	63.667	36.031	67.608	0.00	0.00
ATOM	19363	2HD2	LEU	1296	64.168	35.011	68.882	0.00	0.00
ATOM	19364	3HD2	LEU	1296	63.229	36.471	69.249	0.00	0.00
ATOM	19365	C	LEU	1296	65.488	36.943	72.725	0.00	0.00
ATOM	19366	O	LEU	1296	66.345	37.631	73.345	0.00	0.00

ATOM	19367	N	ASP	1297	64.976	35.780	73.207	0.00	0.00
ATOM	19368	H	ASP	1297	64.233	35.299	72.720	0.00	0.00
ATOM	19369	CA	ASP	1297	65.345	35.145	74.464	0.00	0.00
ATOM	19370	HA	ASP	1297	66.375	35.470	74.614	0.00	0.00
ATOM	19371	CB	ASP	1297	64.447	35.554	75.709	0.00	0.00
ATOM	19372	HB2	ASP	1297	63.386	35.322	75.621	0.00	0.00
ATOM	19373	HB3	ASP	1297	64.371	36.641	75.731	0.00	0.00
ATOM	19374	CG	ASP	1297	64.901	35.189	77.121	0.00	0.00
ATOM	19375	OD1	ASP	1297	65.978	35.657	77.460	0.00	0.00
ATOM	19376	OD2	ASP	1297	64.258	34.371	77.752	0.00	0.00
ATOM	19377	C	ASP	1297	65.390	33.565	74.323	0.00	0.00
ATOM	19378	O	ASP	1297	64.641	33.059	73.493	0.00	0.00
ATOM	19379	N	PRO	1298	66.130	32.796	75.082	0.00	0.00
ATOM	19380	CD	PRO	1298	67.360	33.274	75.704	0.00	0.00
ATOM	19381	HD2	PRO	1298	67.866	33.999	75.067	0.00	0.00
ATOM	19382	HD3	PRO	1298	67.301	33.731	76.692	0.00	0.00
ATOM	19383	CG	PRO	1298	68.311	32.089	75.759	0.00	0.00
ATOM	19384	HG2	PRO	1298	68.951	32.094	74.877	0.00	0.00
ATOM	19385	HG3	PRO	1298	68.986	32.193	76.609	0.00	0.00
ATOM	19386	CB	PRO	1298	67.419	30.824	75.657	0.00	0.00
ATOM	19387	HB2	PRO	1298	67.879	30.089	74.997	0.00	0.00
ATOM	19388	HB3	PRO	1298	67.373	30.318	76.621	0.00	0.00
ATOM	19389	CA	PRO	1298	66.075	31.368	75.098	0.00	0.00
ATOM	19390	HA	PRO	1298	66.054	31.103	74.041	0.00	0.00
ATOM	19391	C	PRO	1298	64.872	30.789	75.880	0.00	0.00
ATOM	19392	O	PRO	1298	64.799	29.554	75.981	0.00	0.00

ATOM	19393	N	ASP	1299	63.885	31.573	76.248	0.00	0.00
ATOM	19394	H	ASP	1299	64.070	32.557	76.386	0.00	0.00
ATOM	19395	CA	ASP	1299	62.524	31.035	76.289	0.00	0.00
ATOM	19396	HA	ASP	1299	62.459	30.114	76.868	0.00	0.00
ATOM	19397	CB	ASP	1299	61.516	31.961	77.038	0.00	0.00
ATOM	19398	HB2	ASP	1299	61.942	32.127	78.027	0.00	0.00
ATOM	19399	HB3	ASP	1299	61.410	32.939	76.570	0.00	0.00
ATOM	19400	CG	ASP	1299	60.092	31.374	77.134	0.00	0.00
ATOM	19401	OD1	ASP	1299	59.952	30.382	77.898	0.00	0.00
ATOM	19402	OD2	ASP	1299	59.152	31.819	76.364	0.00	0.00
ATOM	19403	C	ASP	1299	61.999	30.670	74.918	0.00	0.00
ATOM	19404	O	ASP	1299	61.289	29.658	74.735	0.00	0.00
ATOM	19405	N	ILE	1300	62.348	31.449	73.830	0.00	0.00
ATOM	19406	H	ILE	1300	63.041	32.163	74.004	0.00	0.00
ATOM	19407	CA	ILE	1300	62.117	31.090	72.410	0.00	0.00
ATOM	19408	HA	ILE	1300	61.316	30.350	72.436	0.00	0.00
ATOM	19409	CB	ILE	1300	61.406	32.214	71.608	0.00	0.00
ATOM	19410	HB	ILE	1300	61.435	31.913	70.561	0.00	0.00
ATOM	19411	CG2	ILE	1300	59.986	32.371	72.079	0.00	0.00
ATOM	19412	1HG2	ILE	1300	59.500	31.398	72.151	0.00	0.00
ATOM	19413	2HG2	ILE	1300	60.038	32.827	73.067	0.00	0.00
ATOM	19414	3HG2	ILE	1300	59.471	33.097	71.450	0.00	0.00
ATOM	19415	CG1	ILE	1300	62.155	33.541	71.785	0.00	0.00
ATOM	19416	2HG1	ILE	1300	62.299	33.801	72.834	0.00	0.00
ATOM	19417	3HG1	ILE	1300	63.149	33.599	71.343	0.00	0.00
ATOM	19418	CD1	ILE	1300	61.402	34.664	71.116	0.00	0.00

ATOM	19419	1HD1	ILE	1300	60.434	34.866	71.576	0.00	0.00
ATOM	19420	2HD1	ILE	1300	61.900	35.629	71.211	0.00	0.00
ATOM	19421	3HD1	ILE	1300	61.224	34.463	70.059	0.00	0.00
ATOM	19422	C	ILE	1300	63.348	30.454	71.699	0.00	0.00
ATOM	19423	O	ILE	1300	63.839	30.925	70.689	0.00	0.00
ATOM	19424	N	ALA	1301	64.113	29.497	72.300	0.00	0.00
ATOM	19425	H	ALA	1301	63.856	29.054	73.171	0.00	0.00
ATOM	19426	CA	ALA	1301	65.476	29.085	71.972	0.00	0.00
ATOM	19427	HA	ALA	1301	66.051	30.004	72.088	0.00	0.00
ATOM	19428	CB	ALA	1301	65.766	27.916	72.945	0.00	0.00
ATOM	19429	HB1	ALA	1301	65.938	28.213	73.980	0.00	0.00
ATOM	19430	HB2	ALA	1301	64.920	27.230	72.896	0.00	0.00
ATOM	19431	HB3	ALA	1301	66.646	27.339	72.659	0.00	0.00
ATOM	19432	C	ALA	1301	65.722	28.540	70.533	0.00	0.00
ATOM	19433	O	ALA	1301	66.848	28.667	69.978	0.00	0.00
ATOM	19434	N	GLU	1302	64.687	28.058	69.844	0.00	0.00
ATOM	19435	H	GLU	1302	63.762	28.155	70.236	0.00	0.00
ATOM	19436	CA	GLU	1302	64.788	27.600	68.455	0.00	0.00
ATOM	19437	HA	GLU	1302	65.665	26.972	68.304	0.00	0.00
ATOM	19438	CB	GLU	1302	63.623	26.690	68.137	0.00	0.00
ATOM	19439	HB2	GLU	1302	63.385	26.072	69.003	0.00	0.00
ATOM	19440	HB3	GLU	1302	62.683	27.197	67.919	0.00	0.00
ATOM	19441	CG	GLU	1302	63.865	25.863	66.850	0.00	0.00
ATOM	19442	HG2	GLU	1302	64.278	26.471	66.044	0.00	0.00
ATOM	19443	HG3	GLU	1302	64.573	25.066	67.076	0.00	0.00
ATOM	19444	CD	GLU	1302	62.588	25.230	66.286	0.00	0.00

ATOM	19445	OE1	GLU	1302	61.911	25.925	65.478	0.00	0.00
ATOM	19446	OE2	GLU	1302	62.174	24.096	66.597	0.00	0.00
ATOM	19447	C	GLU	1302	64.968	28.817	67.524	0.00	0.00
ATOM	19448	O	GLU	1302	65.680	28.740	66.503	0.00	0.00
ATOM	19449	N	ASP	1303	64.520	29.975	67.946	0.00	0.00
ATOM	19450	H	ASP	1303	63.928	29.903	68.762	0.00	0.00
ATOM	19451	CA	ASP	1303	64.622	31.305	67.260	0.00	0.00
ATOM	19452	HA	ASP	1303	64.453	31.022	66.221	0.00	0.00
ATOM	19453	CB	ASP	1303	63.398	32.194	67.586	0.00	0.00
ATOM	19454	HB2	ASP	1303	63.405	32.274	68.673	0.00	0.00
ATOM	19455	HB3	ASP	1303	63.487	33.136	67.044	0.00	0.00
ATOM	19456	CG	ASP	1303	62.021	31.719	67.085	0.00	0.00
ATOM	19457	OD1	ASP	1303	61.561	32.262	66.077	0.00	0.00
ATOM	19458	OD2	ASP	1303	61.390	30.836	67.680	0.00	0.00
ATOM	19459	C	ASP	1303	66.009	31.932	67.501	0.00	0.00
ATOM	19460	O	ASP	1303	66.630	32.375	66.529	0.00	0.00
ATOM	19461	N	VAL	1304	66.535	31.740	68.702	0.00	0.00
ATOM	19462	H	VAL	1304	66.007	31.151	69.330	0.00	0.00
ATOM	19463	CA	VAL	1304	67.896	32.202	69.024	0.00	0.00
ATOM	19464	HA	VAL	1304	67.933	33.277	68.845	0.00	0.00
ATOM	19465	CB	VAL	1304	68.256	31.840	70.485	0.00	0.00
ATOM	19466	HB	VAL	1304	68.337	30.756	70.575	0.00	0.00
ATOM	19467	CG1	VAL	1304	69.654	32.499	70.884	0.00	0.00
ATOM	19468	1HG1	VAL	1304	69.966	32.103	71.851	0.00	0.00
ATOM	19469	2HG1	VAL	1304	70.380	32.184	70.135	0.00	0.00
ATOM	19470	3HG1	VAL	1304	69.528	33.578	70.970	0.00	0.00



ATOM	19471	CG2 VAL	1304	67.276	32.499	71.476	0.00	0.00
ATOM	19472	1HG2 VAL	1304	67.539	32.193	72.489	0.00	0.00
ATOM	19473	2HG2 VAL	1304	67.307	33.588	71.450	0.00	0.00
ATOM	19474	3HG2 VAL	1304	66.288	32.130	71.201	0.00	0.00
ATOM	19475	C VAL	1304	68.881	31.386	68.168	0.00	0.00
ATOM	19476	O VAL	1304	69.609	32.134	67.484	0.00	0.00
ATOM	19477	N ALA	1305	68.725	30.097	68.025	0.00	0.00
ATOM	19478	H ALA	1305	67.931	29.633	68.443	0.00	0.00
ATOM	19479	CA ALA	1305	69.602	29.256	67.220	0.00	0.00
ATOM	19480	HA ALA	1305	70.661	29.347	67.462	0.00	0.00
ATOM	19481	CB ALA	1305	69.419	27.829	67.647	0.00	0.00
ATOM	19482	HB1 ALA	1305	69.214	27.730	68.713	0.00	0.00
ATOM	19483	HB2 ALA	1305	68.492	27.458	67.209	0.00	0.00
ATOM	19484	HB3 ALA	1305	70.203	27.117	67.391	0.00	0.00
ATOM	19485	C ALA	1305	69.489	29.453	65.682	0.00	0.00
ATOM	19486	O ALA	1305	70.430	29.290	64.907	0.00	0.00
ATOM	19487	N PHE	1306	68.297	29.947	65.239	0.00	0.00
ATOM	19488	H PHE	1306	67.496	29.882	65.851	0.00	0.00
ATOM	19489	CA PHE	1306	68.046	30.201	63.790	0.00	0.00
ATOM	19490	HA PHE	1306	68.494	29.414	63.183	0.00	0.00
ATOM	19491	CB PHE	1306	66.501	30.164	63.490	0.00	0.00
ATOM	19492	HB2 PHE	1306	66.057	29.207	63.764	0.00	0.00
ATOM	19493	HB3 PHE	1306	66.023	30.927	64.105	0.00	0.00
ATOM	19494	CG PHE	1306	66.149	30.420	62.050	0.00	0.00
ATOM	19495	CD1 PHE	1306	65.284	31.466	61.748	0.00	0.00
ATOM	19496	HD1 PHE	1306	64.757	31.973	62.543	0.00	0.00

ATOM	19497	CE1	PHE	1306	64.971	31.728	60.415	0.00	0.00
ATOM	19498	HE1	PHE	1306	64.132	32.382	60.226	0.00	0.00
ATOM	19499	CZ	PHE	1306	65.503	30.931	59.333	0.00	0.00
ATOM	19500	HZ	PHE	1306	65.064	31.106	58.362	0.00	0.00
ATOM	19501	CE2	PHE	1306	66.300	29.808	59.669	0.00	0.00
ATOM	19502	HE2	PHE	1306	66.572	29.117	58.884	0.00	0.00
ATOM	19503	CD2	PHE	1306	66.648	29.582	61.027	0.00	0.00
ATOM	19504	HD2	PHE	1306	67.325	28.804	61.348	0.00	0.00
ATOM	19505	C	PHE	1306	68.624	31.463	63.385	0.00	0.00
ATOM	19506	O	PHE	1306	69.298	31.574	62.342	0.00	0.00
ATOM	19507	N	ALA	1307	68.590	32.482	64.256	0.00	0.00
ATOM	19508	H	ALA	1307	68.020	32.282	65.066	0.00	0.00
ATOM	19509	CA	ALA	1307	69.203	33.796	64.140	0.00	0.00
ATOM	19510	HA	ALA	1307	68.980	34.176	63.143	0.00	0.00
ATOM	19511	CB	ALA	1307	68.597	34.784	65.102	0.00	0.00
ATOM	19512	HB1	ALA	1307	68.508	34.280	66.064	0.00	0.00
ATOM	19513	HB2	ALA	1307	69.304	35.614	65.108	0.00	0.00
ATOM	19514	HB3	ALA	1307	67.595	35.063	64.777	0.00	0.00
ATOM	19515	C	ALA	1307	70.717	33.692	64.194	0.00	0.00
ATOM	19516	O	ALA	1307	71.341	34.162	63.240	0.00	0.00
ATOM	19517	N	GLU	1308	71.278	32.973	65.162	0.00	0.00
ATOM	19518	H	GLU	1308	70.679	32.561	65.863	0.00	0.00
ATOM	19519	CA	GLU	1308	72.749	32.763	65.251	0.00	0.00
ATOM	19520	HA	GLU	1308	73.206	33.729	65.463	0.00	0.00
ATOM	19521	CB	GLU	1308	73.037	31.882	66.422	0.00	0.00
ATOM	19522	HB2	GLU	1308	72.378	31.029	66.584	0.00	0.00

ATOM	19523	HB3	GLU	1308	74.059	31.534	66.270	0.00	0.00
ATOM	19524	CG	GLU	1308	73.022	32.660	67.737	0.00	0.00
ATOM	19525	HG2	GLU	1308	73.713	33.489	67.580	0.00	0.00
ATOM	19526	HG3	GLU	1308	72.107	33.032	68.198	0.00	0.00
ATOM	19527	CD	GLU	1308	73.585	31.742	68.873	0.00	0.00
ATOM	19528	OE1	GLU	1308	74.018	32.300	69.932	0.00	0.00
ATOM	19529	OE2	GLU	1308	73.593	30.478	68.765	0.00	0.00
ATOM	19530	C	GLU	1308	73.306	32.179	63.950	0.00	0.00
ATOM	19531	O	GLU	1308	74.389	32.479	63.485	0.00	0.00
ATOM	19532	N	SER	1309	72.514	31.293	63.311	0.00	0.00
ATOM	19533	H	SER	1309	71.520	31.337	63.486	0.00	0.00
ATOM	19534	CA	SER	1309	72.845	30.606	62.069	0.00	0.00
ATOM	19535	HA	SER	1309	73.779	30.060	62.203	0.00	0.00
ATOM	19536	CB	SER	1309	71.745	29.635	61.552	0.00	0.00
ATOM	19537	HB2	SER	1309	70.887	30.200	61.190	0.00	0.00
ATOM	19538	HB3	SER	1309	72.070	29.171	60.620	0.00	0.00
ATOM	19539	OG	SER	1309	71.443	28.564	62.388	0.00	0.00
ATOM	19540	HG	SER	1309	71.326	28.945	63.261	0.00	0.00
ATOM	19541	C	SER	1309	73.052	31.589	60.842	0.00	0.00
ATOM	19542	O	SER	1309	73.668	31.179	59.860	0.00	0.00
ATOM	19543	N	ARG	1310	72.598	32.875	60.956	0.00	0.00
ATOM	19544	H	ARG	1310	72.300	33.104	61.894	0.00	0.00
ATOM	19545	CA	ARG	1310	72.974	33.978	60.016	0.00	0.00
ATOM	19546	HA	ARG	1310	72.770	33.773	58.965	0.00	0.00
ATOM	19547	CB	ARG	1310	72.170	35.228	60.455	0.00	0.00
ATOM	19548	HB2	ARG	1310	72.559	36.013	59.806	0.00	0.00

ATOM	19549	HB3	ARG	1310	72.395	35.564	61.467	0.00	0.00
ATOM	19550	CG	ARG	1310	70.672	35.142	60.182	0.00	0.00
ATOM	19551	HG2	ARG	1310	70.475	35.191	59.111	0.00	0.00
ATOM	19552	HG3	ARG	1310	70.277	34.268	60.701	0.00	0.00
ATOM	19553	CD	ARG	1310	69.909	36.335	60.867	0.00	0.00
ATOM	19554	HD2	ARG	1310	68.866	36.037	60.974	0.00	0.00
ATOM	19555	HD3	ARG	1310	70.229	36.413	61.906	0.00	0.00
ATOM	19556	NE	ARG	1310	70.077	37.655	60.312	0.00	0.00
ATOM	19557	HE	ARG	1310	70.889	38.232	60.477	0.00	0.00
ATOM	19558	CZ	ARG	1310	69.174	38.302	59.595	0.00	0.00
ATOM	19559	NH1	ARG	1310	67.929	37.974	59.439	0.00	0.00
ATOM	19560	1HH1	ARG	1310	67.374	38.553	58.827	0.00	0.00
ATOM	19561	2HH1	ARG	1310	67.560	37.137	59.869	0.00	0.00
ATOM	19562	NH2	ARG	1310	69.524	39.422	59.050	0.00	0.00
ATOM	19563	1HH2	ARG	1310	68.804	40.116	58.906	0.00	0.00
ATOM	19564	2HH2	ARG	1310	70.473	39.747	59.165	0.00	0.00
ATOM	19565	C	ARG	1310	74.459	34.223	59.978	0.00	0.00
ATOM	19566	O	ARG	1310	74.911	34.844	59.001	0.00	0.00
ATOM	19567	N	ILE	1311	75.229	33.744	60.935	0.00	0.00
ATOM	19568	H	ILE	1311	74.793	33.273	61.715	0.00	0.00
ATOM	19569	CA	ILE	1311	76.657	34.125	61.017	0.00	0.00
ATOM	19570	HA	ILE	1311	76.896	34.747	60.154	0.00	0.00
ATOM	19571	CB	ILE	1311	77.132	34.959	62.229	0.00	0.00
ATOM	19572	HB	ILE	1311	76.798	34.380	63.091	0.00	0.00
ATOM	19573	CG2	ILE	1311	78.618	35.169	62.325	0.00	0.00
ATOM	19574	1HG2	ILE	1311	78.845	35.565	63.315	0.00	0.00

ATOM	19575	2HG2	ILE	1311	79.173	34.232	62.293	0.00	0.00
ATOM	19576	3HG2	ILE	1311	78.985	35.825	61.535	0.00	0.00
ATOM	19577	CG1	ILE	1311	76.353	36.252	62.320	0.00	0.00
ATOM	19578	2HG1	ILE	1311	75.272	36.209	62.453	0.00	0.00
ATOM	19579	3HG1	ILE	1311	76.661	36.779	63.223	0.00	0.00
ATOM	19580	CD1	ILE	1311	76.540	37.291	61.205	0.00	0.00
ATOM	19581	1HD1	ILE	1311	76.127	36.859	60.294	0.00	0.00
ATOM	19582	2HD1	ILE	1311	76.031	38.205	61.511	0.00	0.00
ATOM	19583	3HD1	ILE	1311	77.582	37.549	61.021	0.00	0.00
ATOM	19584	C	ILE	1311	77.400	32.827	60.867	0.00	0.00
ATOM	19585	O	ILE	1311	77.469	31.931	61.773	0.00	0.00
ATOM	19586	N	ARG	1312	78.098	32.713	59.745	0.00	0.00
ATOM	19587	H	ARG	1312	78.079	33.434	59.038	0.00	0.00
ATOM	19588	CA	ARG	1312	78.616	31.415	59.229	0.00	0.00
ATOM	19589	HA	ARG	1312	78.483	30.686	60.028	0.00	0.00
ATOM	19590	CB	ARG	1312	77.971	30.892	57.905	0.00	0.00
ATOM	19591	HB2	ARG	1312	78.199	31.518	57.043	0.00	0.00
ATOM	19592	HB3	ARG	1312	78.439	29.920	57.754	0.00	0.00
ATOM	19593	CG	ARG	1312	76.374	30.762	58.032	0.00	0.00
ATOM	19594	HG2	ARG	1312	76.069	29.935	57.392	0.00	0.00
ATOM	19595	HG3	ARG	1312	76.090	30.478	59.046	0.00	0.00
ATOM	19596	CD	ARG	1312	75.714	32.064	57.613	0.00	0.00
ATOM	19597	HD2	ARG	1312	74.641	31.945	57.761	0.00	0.00
ATOM	19598	HD3	ARG	1312	76.137	32.857	58.230	0.00	0.00
ATOM	19599	NE	ARG	1312	75.912	32.410	56.240	0.00	0.00
ATOM	19600	HE	ARG	1312	75.805	31.706	55.524	0.00	0.00

ATOM 19601 CZ ARG 1312	76.143	33.628	55.747	0.00	0.00
ATOM 19602 NH1 ARG 1312	76.075	34.767	56.292	0.00	0.00
ATOM 19603 1HH1 ARG 1312	76.559	35.531	55.841	0.00	0.00
ATOM 19604 2HH1 ARG 1312	75.696	34.820	57.227	0.00	0.00
ATOM 19605 NH2 ARG 1312	76.462	33.729	54.523	0.00	0.00
ATOM 19606 1HH2 ARG 1312	77.010	34.510	54.192	0.00	0.00
ATOM 19607 2HH2 ARG 1312	76.746	32.840	54.137	0.00	0.00
ATOM 19608 C ARG 1312	80.089	31.441	59.075	0.00	0.00
ATOM 19609 O ARG 1312	80.607	32.148	58.172	0.00	0.00
ATOM 19610 N ARG 1313	80.821	30.774	59.963	0.00	0.00
ATOM 19611 H ARG 1313	80.534	30.036	60.590	0.00	0.00
ATOM 19612 CA ARG 1313	82.208	31.165	60.134	0.00	0.00
ATOM 19613 HA ARG 1313	82.334	32.237	60.284	0.00	0.00
ATOM 19614 CB ARG 1313	82.578	30.483	61.481	0.00	0.00
ATOM 19615 HB2 ARG 1313	81.858	30.698	62.270	0.00	0.00
ATOM 19616 HB3 ARG 1313	82.505	29.396	61.463	0.00	0.00
ATOM 19617 CG ARG 1313	84.024	30.807	61.900	0.00	0.00
ATOM 19618 HG2 ARG 1313	84.789	30.338	61.282	0.00	0.00
ATOM 19619 HG3 ARG 1313	84.197	31.883	61.920	0.00	0.00
ATOM 19620 CD ARG 1313	84.302	30.306	63.436	0.00	0.00
ATOM 19621 HD2 ARG 1313	83.422	30.570	64.022	0.00	0.00
ATOM 19622 HD3 ARG 1313	84.291	29.216	63.453	0.00	0.00
ATOM 19623 NE ARG 1313	85.542	30.795	63.935	0.00	0.00
ATOM 19624 HE ARG 1313	86.292	30.961	63.279	0.00	0.00
ATOM 19625 CZ ARG 1313	85.665	31.387	65.083	0.00	0.00
ATOM 19626 NH1 ARG 1313	84.733	31.768	65.879	0.00	0.00

ATOM	19627	1HH1	ARG	1313	84.951	32.270	66.728	0.00	0.00
ATOM	19628	2HH1	ARG	1313	83.788	31.879	65.540	0.00	0.00
ATOM	19629	NH2	ARG	1313	86.788	31.919	65.321	0.00	0.00
ATOM	19630	1HH2	ARG	1313	86.948	32.340	66.225	0.00	0.00
ATOM	19631	2HH2	ARG	1313	87.541	31.839	64.653	0.00	0.00
ATOM	19632	C	ARG	1313	83.135	30.740	58.988	0.00	0.00
ATOM	19633	O	ARG	1313	84.252	31.313	58.953	0.00	0.00
ATOM	19634	N	GLU	1314	82.827	29.742	58.170	0.00	0.00
ATOM	19635	H	GLU	1314	82.033	29.202	58.484	0.00	0.00
ATOM	19636	CA	GLU	1314	83.545	29.448	56.924	0.00	0.00
ATOM	19637	HA	GLU	1314	84.599	29.372	57.192	0.00	0.00
ATOM	19638	CB	GLU	1314	83.095	28.210	56.238	0.00	0.00
ATOM	19639	HB2	GLU	1314	82.030	28.323	56.035	0.00	0.00
ATOM	19640	HB3	GLU	1314	83.661	28.045	55.321	0.00	0.00
ATOM	19641	CG	GLU	1314	83.233	26.920	57.202	0.00	0.00
ATOM	19642	HG2	GLU	1314	82.824	27.208	58.170	0.00	0.00
ATOM	19643	HG3	GLU	1314	82.788	26.048	56.724	0.00	0.00
ATOM	19644	CD	GLU	1314	84.730	26.495	57.317	0.00	0.00
ATOM	19645	OE1	GLU	1314	85.429	26.278	56.257	0.00	0.00
ATOM	19646	OE2	GLU	1314	85.261	26.365	58.430	0.00	0.00
ATOM	19647	C	GLU	1314	83.433	30.538	55.821	0.00	0.00
ATOM	19648	O	GLU	1314	84.491	30.747	55.208	0.00	0.00
ATOM	19649	N	THR	1315	82.293	31.290	55.685	0.00	0.00
ATOM	19650	H	THR	1315	81.555	31.330	56.373	0.00	0.00
ATOM	19651	CA	THR	1315	82.009	32.103	54.477	0.00	0.00
ATOM	19652	HA	THR	1315	82.724	31.964	53.666	0.00	0.00

ATOM	19653	CB	THR	1315	80.649	31.618	53.887	0.00	0.00
ATOM	19654	HB	THR	1315	80.678	32.012	52.871	0.00	0.00
ATOM	19655	CG2	THR	1315	80.449	30.078	53.747	0.00	0.00
ATOM	19656	1HG2	THR	1315	79.597	29.709	53.175	0.00	0.00
ATOM	19657	2HG2	THR	1315	81.209	29.741	53.042	0.00	0.00
ATOM	19658	3HG2	THR	1315	80.665	29.525	54.661	0.00	0.00
ATOM	19659	OG1	THR	1315	79.564	32.090	54.673	0.00	0.00
ATOM	19660	HG1	THR	1315	79.267	32.944	54.351	0.00	0.00
ATOM	19661	C	THR	1315	81.910	33.583	54.710	0.00	0.00
ATOM	19662	O	THR	1315	82.171	34.418	53.867	0.00	0.00
ATOM	19663	N	ILE	1316	81.570	34.084	55.926	0.00	0.00
ATOM	19664	H	ILE	1316	81.359	33.416	56.654	0.00	0.00
ATOM	19665	CA	ILE	1316	81.628	35.491	56.233	0.00	0.00
ATOM	19666	HA	ILE	1316	80.916	35.963	55.554	0.00	0.00
ATOM	19667	CB	ILE	1316	81.166	35.728	57.676	0.00	0.00
ATOM	19668	HB	ILE	1316	80.144	35.352	57.694	0.00	0.00
ATOM	19669	CG2	ILE	1316	82.133	35.114	58.671	0.00	0.00
ATOM	19670	1HG2	ILE	1316	81.711	35.055	59.674	0.00	0.00
ATOM	19671	2HG2	ILE	1316	82.394	34.088	58.411	0.00	0.00
ATOM	19672	3HG2	ILE	1316	83.096	35.618	58.764	0.00	0.00
ATOM	19673	CG1	ILE	1316	80.985	37.290	57.940	0.00	0.00
ATOM	19674	2HG1	ILE	1316	81.976	37.727	58.059	0.00	0.00
ATOM	19675	3HG1	ILE	1316	80.475	37.766	57.103	0.00	0.00
ATOM	19676	CD1	ILE	1316	80.155	37.592	59.233	0.00	0.00
ATOM	19677	1HD1	ILE	1316	79.193	37.122	59.030	0.00	0.00
ATOM	19678	2HD1	ILE	1316	80.576	37.040	60.073	0.00	0.00



ATOM 19679	3HD1	ILE	1316	80.112	38.670	59.386	0.00	0.00
ATOM 19680	C	ILE	1316	82.940	36.252	56.039	0.00	0.00
ATOM 19681	O	ILE	1316	82.956	37.477	55.721	0.00	0.00
ATOM 19682	N	ALA	1317	84.057	35.479	56.056	0.00	0.00
ATOM 19683	H	ALA	1317	83.970	34.473	56.045	0.00	0.00
ATOM 19684	CA	ALA	1317	85.434	35.933	55.956	0.00	0.00
ATOM 19685	HA	ALA	1317	85.496	36.862	56.523	0.00	0.00
ATOM 19686	CB	ALA	1317	86.252	34.846	56.504	0.00	0.00
ATOM 19687	HB1	ALA	1317	85.946	34.701	57.540	0.00	0.00
ATOM 19688	HB2	ALA	1317	85.991	33.951	55.939	0.00	0.00
ATOM 19689	HB3	ALA	1317	87.289	35.178	56.460	0.00	0.00
ATOM 19690	C	ALA	1317	85.850	36.384	54.480	0.00	0.00
ATOM 19691	O	ALA	1317	87.046	36.381	54.144	0.00	0.00
ATOM 19692	N	ALA	1318	84.907	36.710	53.695	0.00	0.00
ATOM 19693	H	ALA	1318	83.974	36.523	54.033	0.00	0.00
ATOM 19694	CA	ALA	1318	85.034	37.139	52.306	0.00	0.00
ATOM 19695	HA	ALA	1318	86.008	36.934	51.863	0.00	0.00
ATOM 19696	CB	ALA	1318	84.075	36.366	51.480	0.00	0.00
ATOM 19697	HB1	ALA	1318	84.378	36.435	50.435	0.00	0.00
ATOM 19698	HB2	ALA	1318	84.211	35.308	51.703	0.00	0.00
ATOM 19699	HB3	ALA	1318	83.052	36.742	51.442	0.00	0.00
ATOM 19700	C	ALA	1318	84.725	38.692	52.055	0.00	0.00
ATOM 19701	O	ALA	1318	85.096	39.268	50.998	0.00	0.00
ATOM 19702	N	GLU	1319	84.070	39.321	52.993	0.00	0.00
ATOM 19703	H	GLU	1319	83.918	38.841	53.868	0.00	0.00
ATOM 19704	CA	GLU	1319	83.569	40.657	52.772	0.00	0.00

ATOM	19705	HA	GLU	1319	83.176	40.692	51.756	0.00	0.00
ATOM	19706	CB	GLU	1319	82.548	41.079	53.800	0.00	0.00
ATOM	19707	HB2	GLU	1319	82.958	41.054	54.810	0.00	0.00
ATOM	19708	HB3	GLU	1319	82.338	42.125	53.575	0.00	0.00
ATOM	19709	CG	GLU	1319	81.203	40.374	53.771	0.00	0.00
ATOM	19710	HG2	GLU	1319	80.992	40.103	52.736	0.00	0.00
ATOM	19711	HG3	GLU	1319	81.271	39.390	54.235	0.00	0.00
ATOM	19712	CD	GLU	1319	80.001	41.234	54.142	0.00	0.00
ATOM	19713	OE1	GLU	1319	80.062	41.823	55.268	0.00	0.00
ATOM	19714	OE2	GLU	1319	79.189	41.538	53.236	0.00	0.00
ATOM	19715	C	GLU	1319	84.561	41.735	52.728	0.00	0.00
ATOM	19716	O	GLU	1319	84.347	42.756	52.032	0.00	0.00
ATOM	19717	N	ASP	1320	85.747	41.595	53.263	0.00	0.00
ATOM	19718	H	ASP	1320	85.969	40.690	53.651	0.00	0.00
ATOM	19719	CA	ASP	1320	86.873	42.512	53.138	0.00	0.00
ATOM	19720	HA	ASP	1320	86.497	43.524	52.986	0.00	0.00
ATOM	19721	CB	ASP	1320	87.621	42.536	54.551	0.00	0.00
ATOM	19722	HB2	ASP	1320	88.464	43.205	54.380	0.00	0.00
ATOM	19723	HB3	ASP	1320	86.883	42.936	55.247	0.00	0.00
ATOM	19724	CG	ASP	1320	88.292	41.213	55.086	0.00	0.00
ATOM	19725	OD1	ASP	1320	88.755	41.192	56.235	0.00	0.00
ATOM	19726	OD2	ASP	1320	88.431	40.307	54.241	0.00	0.00
ATOM	19727	C	ASP	1320	87.732	42.251	51.824	0.00	0.00
ATOM	19728	O	ASP	1320	88.127	43.191	51.240	0.00	0.00
ATOM	19729	N	VAL	1321	87.976	40.981	51.401	0.00	0.00
ATOM	19730	H	VAL	1321	87.829	40.295	52.128	0.00	0.00

ATOM 19731	CA	VAL	1321	88.693	40.834	50.105	0.00	0.00
ATOM 19732	HA	VAL	1321	89.557	41.499	50.074	0.00	0.00
ATOM 19733	CB	VAL	1321	89.343	39.448	49.987	0.00	0.00
ATOM 19734	HB	VAL	1321	90.037	39.439	50.828	0.00	0.00
ATOM 19735	CG1	VAL	1321	88.353	38.236	50.047	0.00	0.00
ATOM 19736	1HG1	VAL	1321	87.706	38.182	49.172	0.00	0.00
ATOM 19737	2HG1	VAL	1321	88.854	37.277	50.177	0.00	0.00
ATOM 19738	3HG1	VAL	1321	87.679	38.322	50.900	0.00	0.00
ATOM 19739	CG2	VAL	1321	90.181	39.346	48.717	0.00	0.00
ATOM 19740	1HG2	VAL	1321	90.714	38.396	48.724	0.00	0.00
ATOM 19741	2HG2	VAL	1321	89.559	39.264	47.825	0.00	0.00
ATOM 19742	3HG2	VAL	1321	90.850	40.205	48.667	0.00	0.00
ATOM 19743	C	VAL	1321	87.841	41.155	48.856	0.00	0.00
ATOM 19744	O	VAL	1321	88.471	41.551	47.886	0.00	0.00
ATOM 19745	N	LEU	1322	86.555	41.020	48.962	0.00	0.00
ATOM 19746	H	LEU	1322	86.174	40.869	49.885	0.00	0.00
ATOM 19747	CA	LEU	1322	85.642	41.348	47.910	0.00	0.00
ATOM 19748	HA	LEU	1322	85.889	40.880	46.957	0.00	0.00
ATOM 19749	CB	LEU	1322	84.183	40.923	48.321	0.00	0.00
ATOM 19750	HB2	LEU	1322	84.034	40.973	49.399	0.00	0.00
ATOM 19751	HB3	LEU	1322	83.499	41.532	47.730	0.00	0.00
ATOM 19752	CG	LEU	1322	83.806	39.471	47.901	0.00	0.00
ATOM 19753	HG	LEU	1322	84.494	38.815	48.434	0.00	0.00
ATOM 19754	CD1	LEU	1322	82.414	39.209	48.402	0.00	0.00
ATOM 19755	1HD1	LEU	1322	81.632	39.709	47.831	0.00	0.00
ATOM 19756	2HD1	LEU	1322	82.165	38.152	48.319	0.00	0.00

ATOM	19757	3HD1	LEU	1322	82.289	39.440	49.460	0.00	0.00
ATOM	19758	CD2	LEU	1322	83.868	39.163	46.447	0.00	0.00
ATOM	19759	1HD2	LEU	1322	83.555	38.140	46.237	0.00	0.00
ATOM	19760	2HD2	LEU	1322	83.240	39.911	45.963	0.00	0.00
ATOM	19761	3HD2	LEU	1322	84.932	39.145	46.210	0.00	0.00
ATOM	19762	C	LEU	1322	85.717	42.823	47.661	0.00	0.00
ATOM	19763	O	LEU	1322	85.679	43.197	46.504	0.00	0.00
ATOM	19764	N	HIE	1323	85.887	43.647	48.716	0.00	0.00
ATOM	19765	H	HIE	1323	85.902	43.223	49.633	0.00	0.00
ATOM	19766	CA	HIE	1323	86.292	45.078	48.606	0.00	0.00
ATOM	19767	HA	HIE	1323	85.537	45.422	47.900	0.00	0.00
ATOM	19768	CB	HIE	1323	86.430	45.785	49.940	0.00	0.00
ATOM	19769	HB2	HIE	1323	86.773	45.020	50.637	0.00	0.00
ATOM	19770	HB3	HIE	1323	87.081	46.656	49.865	0.00	0.00
ATOM	19771	CG	HIE	1323	85.128	46.401	50.341	0.00	0.00
ATOM	19772	ND1	HIE	1323	84.479	47.487	49.669	0.00	0.00
ATOM	19773	CE1	HIE	1323	83.487	47.877	50.473	0.00	0.00
ATOM	19774	HE1	HIE	1323	82.735	48.634	50.307	0.00	0.00
ATOM	19775	NE2	HIE	1323	83.515	47.136	51.594	0.00	0.00
ATOM	19776	HE2	HIE	1323	82.866	47.182	52.366	0.00	0.00
ATOM	19777	CD2	HIE	1323	84.478	46.173	51.480	0.00	0.00
ATOM	19778	HD2	HIE	1323	84.615	45.337	52.151	0.00	0.00
ATOM	19779	C	HIE	1323	87.616	45.268	47.902	0.00	0.00
ATOM	19780	O	HIE	1323	87.725	46.120	46.973	0.00	0.00
ATOM	19781	N	ASP	1324	88.631	44.470	48.272	0.00	0.00
ATOM	19782	H	ASP	1324	88.551	43.895	49.098	0.00	0.00

ATOM 19783	CA	ASP	1324	89.933	44.602	47.753	0.00	0.00
ATOM 19784	HA	ASP	1324	90.257	45.636	47.864	0.00	0.00
ATOM 19785	CB	ASP	1324	90.850	43.656	48.543	0.00	0.00
ATOM 19786	HB2	ASP	1324	90.841	42.594	48.297	0.00	0.00
ATOM 19787	HB3	ASP	1324	90.526	43.632	49.583	0.00	0.00
ATOM 19788	CG	ASP	1324	92.297	44.147	48.425	0.00	0.00
ATOM 19789	OD1	ASP	1324	92.493	45.364	48.732	0.00	0.00
ATOM 19790	OD2	ASP	1324	93.198	43.477	47.952	0.00	0.00
ATOM 19791	C	ASP	1324	90.121	44.391	46.233	0.00	0.00
ATOM 19792	O	ASP	1324	90.571	45.185	45.431	0.00	0.00
ATOM 19793	N	LEU	1325	89.480	43.312	45.696	0.00	0.00
ATOM 19794	H	LEU	1325	89.042	42.710	46.378	0.00	0.00
ATOM 19795	CA	LEU	1325	89.180	43.001	44.256	0.00	0.00
ATOM 19796	HA	LEU	1325	90.140	42.968	43.741	0.00	0.00
ATOM 19797	CB	LEU	1325	88.323	41.713	44.145	0.00	0.00
ATOM 19798	HB2	LEU	1325	87.582	41.784	44.940	0.00	0.00
ATOM 19799	HB3	LEU	1325	87.738	41.727	43.225	0.00	0.00
ATOM 19800	CG	LEU	1325	89.073	40.360	44.301	0.00	0.00
ATOM 19801	HG	LEU	1325	90.010	40.508	44.838	0.00	0.00
ATOM 19802	CD1	LEU	1325	88.128	39.307	44.994	0.00	0.00
ATOM 19803	1HD1	LEU	1325	88.647	38.350	45.046	0.00	0.00
ATOM 19804	2HD1	LEU	1325	87.825	39.626	45.991	0.00	0.00
ATOM 19805	3HD1	LEU	1325	87.285	39.043	44.357	0.00	0.00
ATOM 19806	CD2	LEU	1325	89.379	39.840	42.936	0.00	0.00
ATOM 19807	1HD2	LEU	1325	88.486	39.890	42.314	0.00	0.00
ATOM 19808	2HD2	LEU	1325	90.120	40.469	42.443	0.00	0.00

ATOM	19809	3HD2	LEU	1325	89.683	38.803	43.079	0.00	0.00
ATOM	19810	C	LEU	1325	88.483	44.145	43.556	0.00	0.00
ATOM	19811	O	LEU	1325	88.614	44.291	42.343	0.00	0.00
ATOM	19812	N	GLY	1326	87.649	44.984	44.218	0.00	0.00
ATOM	19813	H	GLY	1326	87.776	44.859	45.213	0.00	0.00
ATOM	19814	CA	GLY	1326	86.704	45.875	43.647	0.00	0.00
ATOM	19815	HA2	GLY	1326	86.380	46.586	44.407	0.00	0.00
ATOM	19816	HA3	GLY	1326	87.066	46.332	42.726	0.00	0.00
ATOM	19817	C	GLY	1326	85.414	45.166	43.174	0.00	0.00
ATOM	19818	O	GLY	1326	84.580	45.749	42.520	0.00	0.00
ATOM	19819	N	ALA	1327	85.260	43.896	43.496	0.00	0.00
ATOM	19820	H	ALA	1327	86.067	43.454	43.912	0.00	0.00
ATOM	19821	CA	ALA	1327	83.902	43.199	43.486	0.00	0.00
ATOM	19822	HA	ALA	1327	83.411	43.210	42.513	0.00	0.00
ATOM	19823	CB	ALA	1327	84.128	41.785	44.010	0.00	0.00
ATOM	19824	HB1	ALA	1327	83.383	41.091	43.620	0.00	0.00
ATOM	19825	HB2	ALA	1327	85.114	41.414	43.734	0.00	0.00
ATOM	19826	HB3	ALA	1327	84.054	41.884	45.094	0.00	0.00
ATOM	19827	C	ALA	1327	82.907	44.063	44.277	0.00	0.00
ATOM	19828	O	ALA	1327	81.794	44.404	43.874	0.00	0.00
ATOM	19829	N	PHE	1328	83.191	44.425	45.516	0.00	0.00
ATOM	19830	H	PHE	1328	84.154	44.249	45.765	0.00	0.00
ATOM	19831	CA	PHE	1328	82.382	45.299	46.309	0.00	0.00
ATOM	19832	HA	PHE	1328	81.318	45.148	46.132	0.00	0.00
ATOM	19833	CB	PHE	1328	82.552	44.979	47.792	0.00	0.00
ATOM	19834	HB2	PHE	1328	83.602	44.923	48.080	0.00	0.00

ATOM	19835	HB3	PHE	1328	82.247	45.841	48.385	0.00	0.00
ATOM	19836	CG	PHE	1328	81.787	43.771	48.336	0.00	0.00
ATOM	19837	CD1	PHE	1328	81.743	43.554	49.691	0.00	0.00
ATOM	19838	HD1	PHE	1328	82.308	44.229	50.317	0.00	0.00
ATOM	19839	CE1	PHE	1328	81.027	42.560	50.278	0.00	0.00
ATOM	19840	HE1	PHE	1328	81.054	42.439	51.351	0.00	0.00
ATOM	19841	CZ	PHE	1328	80.274	41.705	49.471	0.00	0.00
ATOM	19842	HZ	PHE	1328	79.806	40.886	49.997	0.00	0.00
ATOM	19843	CE2	PHE	1328	80.168	41.957	48.071	0.00	0.00
ATOM	19844	HE2	PHE	1328	79.507	41.380	47.442	0.00	0.00
ATOM	19845	CD2	PHE	1328	80.914	43.017	47.526	0.00	0.00
ATOM	19846	HD2	PHE	1328	80.719	43.202	46.480	0.00	0.00
ATOM	19847	C	PHE	1328	82.855	46.715	46.012	0.00	0.00
ATOM	19848	O	PHE	1328	84.111	46.898	46.063	0.00	0.00
ATOM	19849	N	SER	1329	81.926	47.664	45.708	0.00	0.00
ATOM	19850	H	SER	1329	80.936	47.513	45.837	0.00	0.00
ATOM	19851	CA	SER	1329	82.327	48.899	45.084	0.00	0.00
ATOM	19852	HA	SER	1329	83.382	48.892	44.809	0.00	0.00
ATOM	19853	CB	SER	1329	81.656	49.029	43.694	0.00	0.00
ATOM	19854	HB2	SER	1329	80.570	49.084	43.771	0.00	0.00
ATOM	19855	HB3	SER	1329	82.005	49.949	43.225	0.00	0.00
ATOM	19856	OG	SER	1329	81.863	47.877	42.868	0.00	0.00
ATOM	19857	HG	SER	1329	82.665	47.986	42.352	0.00	0.00
ATOM	19858	C	SER	1329	82.106	50.205	45.829	0.00	0.00
ATOM	19859	O	SER	1329	82.715	51.252	45.459	0.00	0.00
ATOM	19860	N	LEU	1330	81.285	50.216	46.889	0.00	0.00

ATOM 19861	H	LEU	1330	80.801	49.344	47.047	0.00	0.00
ATOM 19862	CA	LEU	1330	81.017	51.390	47.726	0.00	0.00
ATOM 19863	HA	LEU	1330	81.879	52.035	47.555	0.00	0.00
ATOM 19864	CB	LEU	1330	79.818	52.147	47.030	0.00	0.00
ATOM 19865	HB2	LEU	1330	79.877	53.178	47.378	0.00	0.00
ATOM 19866	HB3	LEU	1330	80.028	52.243	45.964	0.00	0.00
ATOM 19867	CG	LEU	1330	78.357	51.674	47.185	0.00	0.00
ATOM 19868	HG	LEU	1330	77.708	52.238	46.516	0.00	0.00
ATOM 19869	CD1	LEU	1330	78.078	50.225	46.806	0.00	0.00
ATOM 19870	1HD1	LEU	1330	78.287	49.528	47.618	0.00	0.00
ATOM 19871	2HD1	LEU	1330	77.035	50.054	46.539	0.00	0.00
ATOM 19872	3HD1	LEU	1330	78.600	49.788	45.955	0.00	0.00
ATOM 19873	CD2	LEU	1330	77.781	51.917	48.554	0.00	0.00
ATOM 19874	1HD2	LEU	1330	78.161	51.157	49.237	0.00	0.00
ATOM 19875	2HD2	LEU	1330	77.962	52.887	49.017	0.00	0.00
ATOM 19876	3HD2	LEU	1330	76.697	51.818	48.493	0.00	0.00
ATOM 19877	C	LEU	1330	80.767	51.059	49.212	0.00	0.00
ATOM 19878	O	LEU	1330	80.589	49.869	49.477	0.00	0.00
ATOM 19879	N	THR	1331	80.876	52.016	50.174	0.00	0.00
ATOM 19880	H	THR	1331	81.028	52.965	49.864	0.00	0.00
ATOM 19881	CA	THR	1331	80.916	51.790	51.664	0.00	0.00
ATOM 19882	HA	THR	1331	81.243	50.768	51.855	0.00	0.00
ATOM 19883	CB	THR	1331	81.949	52.705	52.373	0.00	0.00
ATOM 19884	HB	THR	1331	81.739	53.767	52.246	0.00	0.00
ATOM 19885	CG2	THR	1331	82.303	52.308	53.859	0.00	0.00
ATOM 19886	1HG2	THR	1331	81.543	52.333	54.640	0.00	0.00



ATOM 19887	2HG2	THR	1331	82.902	51.399	53.915	0.00	0.00
ATOM 19888	3HG2	THR	1331	82.848	53.196	54.177	0.00	0.00
ATOM 19889	OG1	THR	1331	83.119	52.512	51.657	0.00	0.00
ATOM 19890	HG1	THR	1331	83.896	52.652	52.204	0.00	0.00
ATOM 19891	C	THR	1331	79.511	51.860	52.316	0.00	0.00
ATOM 19892	O	THR	1331	78.575	52.364	51.724	0.00	0.00
ATOM 19893	N	SER	1332	79.359	51.406	53.577	0.00	0.00
ATOM 19894	H	SER	1332	80.174	51.007	54.021	0.00	0.00
ATOM 19895	CA	SER	1332	78.104	51.535	54.330	0.00	0.00
ATOM 19896	HA	SER	1332	77.713	52.544	54.199	0.00	0.00
ATOM 19897	CB	SER	1332	77.091	50.457	53.971	0.00	0.00
ATOM 19898	HB2	SER	1332	77.440	49.529	54.425	0.00	0.00
ATOM 19899	HB3	SER	1332	76.187	50.718	54.521	0.00	0.00
ATOM 19900	OG	SER	1332	76.835	50.454	52.547	0.00	0.00
ATOM 19901	HG	SER	1332	76.931	51.374	52.291	0.00	0.00
ATOM 19902	C	SER	1332	78.294	51.498	55.921	0.00	0.00
ATOM 19903	O	SER	1332	79.139	50.731	56.459	0.00	0.00
ATOM 19904	N	SER	1333	77.431	52.196	56.638	0.00	0.00
ATOM 19905	H	SER	1333	76.940	52.986	56.243	0.00	0.00
ATOM 19906	CA	SER	1333	77.583	52.337	58.091	0.00	0.00
ATOM 19907	HA	SER	1333	78.590	52.172	58.475	0.00	0.00
ATOM 19908	CB	SER	1333	77.098	53.778	58.501	0.00	0.00
ATOM 19909	HB2	SER	1333	76.907	53.763	59.574	0.00	0.00
ATOM 19910	HB3	SER	1333	77.856	54.509	58.222	0.00	0.00
ATOM 19911	OG	SER	1333	75.857	53.942	57.934	0.00	0.00
ATOM 19912	HG	SER	1333	76.024	54.221	57.031	0.00	0.00

ATOM	19913	C	SER	1333	76.721	51.274	58.820	0.00	0.00
ATOM	19914	O	SER	1333	77.117	50.732	59.846	0.00	0.00
ATOM	19915	N	A21	1334	75.476	51.036	58.295	0.00	0.00
ATOM	19916	H	A21	1334	75.166	51.689	57.590	0.00	0.00
ATOM	19917	CA	A21	1334	74.405	50.361	59.034	0.00	0.00
ATOM	19918	HA	A21	1334	73.503	50.497	58.438	0.00	0.00
ATOM	19919	CB	A21	1334	74.773	48.899	58.964	0.00	0.00
ATOM	19920	HB2	A21	1334	75.448	48.673	58.139	0.00	0.00
ATOM	19921	HB3	A21	1334	75.332	48.733	59.886	0.00	0.00
ATOM	19922	CG	A21	1334	73.536	47.938	58.703	0.00	0.00
ATOM	19923	OD1	A21	1334	72.427	48.345	59.106	0.00	0.00
ATOM	19924	OD2	A21	1334	73.750	46.827	58.131	0.00	0.00
ATOM	19925	C	A21	1334	74.065	51.007	60.361	0.00	0.00
ATOM	19926	O	A21	1334	73.856	50.312	61.329	0.00	0.00
ATOM	19927	N	SER	1335	74.181	52.282	60.442	0.00	0.00
ATOM	19928	H	SER	1335	74.337	52.708	59.540	0.00	0.00
ATOM	19929	CA	SER	1335	74.298	53.124	61.624	0.00	0.00
ATOM	19930	HA	SER	1335	75.286	52.954	62.054	0.00	0.00
ATOM	19931	CB	SER	1335	74.159	54.638	61.250	0.00	0.00
ATOM	19932	HB2	SER	1335	74.143	55.285	62.127	0.00	0.00
ATOM	19933	HB3	SER	1335	74.970	54.943	60.589	0.00	0.00
ATOM	19934	OG	SER	1335	72.852	54.805	60.729	0.00	0.00
ATOM	19935	HG	SER	1335	72.214	54.685	61.436	0.00	0.00
ATOM	19936	C	SER	1335	73.334	52.770	62.732	0.00	0.00
ATOM	19937	O	SER	1335	72.173	52.927	62.534	0.00	0.00
ATOM	19938	N	GLN	1336	73.813	52.262	63.879	0.00	0.00

ATOM	19939	H	GLN	1336	74.753	51.898	63.937	0.00	0.00
ATOM	19940	CA	GLN	1336	73.058	52.007	65.112	0.00	0.00
ATOM	19941	HA	GLN	1336	73.788	51.558	65.785	0.00	0.00
ATOM	19942	CB	GLN	1336	72.694	53.247	65.908	0.00	0.00
ATOM	19943	HB2	GLN	1336	71.937	53.860	65.419	0.00	0.00
ATOM	19944	HB3	GLN	1336	72.207	52.898	66.818	0.00	0.00
ATOM	19945	CG	GLN	1336	73.961	54.150	66.315	0.00	0.00
ATOM	19946	HG2	GLN	1336	73.667	55.013	66.913	0.00	0.00
ATOM	19947	HG3	GLN	1336	74.567	53.575	67.015	0.00	0.00
ATOM	19948	CD	GLN	1336	74.655	54.723	65.095	0.00	0.00
ATOM	19949	OE1	GLN	1336	74.143	55.559	64.333	0.00	0.00
ATOM	19950	NE2	GLN	1336	75.789	54.274	64.765	0.00	0.00
ATOM	19951	1HE2	GLN	1336	76.188	54.664	63.923	0.00	0.00
ATOM	19952	2HE2	GLN	1336	76.322	53.569	65.253	0.00	0.00
ATOM	19953	C	GLN	1336	72.008	50.923	64.991	0.00	0.00
ATOM	19954	O	GLN	1336	71.123	50.763	65.822	0.00	0.00
ATOM	19955	N	ALA	1337	71.940	50.281	63.806	0.00	0.00
ATOM	19956	H	ALA	1337	72.447	50.642	63.011	0.00	0.00
ATOM	19957	CA	ALA	1337	71.045	49.093	63.539	0.00	0.00
ATOM	19958	HA	ALA	1337	70.294	48.998	64.323	0.00	0.00
ATOM	19959	CB	ALA	1337	70.260	49.589	62.286	0.00	0.00
ATOM	19960	HB1	ALA	1337	69.689	50.489	62.517	0.00	0.00
ATOM	19961	HB2	ALA	1337	71.010	49.804	61.525	0.00	0.00
ATOM	19962	HB3	ALA	1337	69.652	48.787	61.867	0.00	0.00
ATOM	19963	C	ALA	1337	71.922	47.825	63.390	0.00	0.00
ATOM	19964	O	ALA	1337	71.452	46.697	63.710	0.00	0.00

ATOM	19965	N	MET	1338	73.166	47.876	62.898	0.00	0.00
ATOM	19966	H	MET	1338	73.364	48.712	62.366	0.00	0.00
ATOM	19967	CA	MET	1338	74.135	46.804	62.873	0.00	0.00
ATOM	19968	HA	MET	1338	74.066	46.122	63.720	0.00	0.00
ATOM	19969	CB	MET	1338	73.891	45.869	61.636	0.00	0.00
ATOM	19970	HB2	MET	1338	72.996	45.359	61.995	0.00	0.00
ATOM	19971	HB3	MET	1338	73.691	46.447	60.734	0.00	0.00
ATOM	19972	CG	MET	1338	74.905	44.686	61.323	0.00	0.00
ATOM	19973	HG2	MET	1338	75.463	44.972	60.432	0.00	0.00
ATOM	19974	HG3	MET	1338	75.527	44.524	62.204	0.00	0.00
ATOM	19975	SD	MET	1338	74.252	43.063	60.967	0.00	0.00
ATOM	19976	CE	MET	1338	73.685	42.686	62.724	0.00	0.00
ATOM	19977	HE1	MET	1338	74.450	42.732	63.498	0.00	0.00
ATOM	19978	HE2	MET	1338	72.961	43.436	63.042	0.00	0.00
ATOM	19979	HE3	MET	1338	73.256	41.685	62.673	0.00	0.00
ATOM	19980	C	MET	1338	75.525	47.304	62.955	0.00	0.00
ATOM	19981	O	MET	1338	76.487	46.495	63.175	0.00	0.00
TER	0			0					
ATOM	19982	N	GLY	1339	75.788	48.605	62.803	0.00	0.00
ATOM	19983	H	GLY	1339	74.997	49.180	62.551	0.00	0.00
ATOM	19984	CA	GLY	1339	77.161	49.052	62.523	0.00	0.00
ATOM	19985	HA2	GLY	1339	77.870	48.491	63.133	0.00	0.00
ATOM	19986	HA3	GLY	1339	77.392	48.826	61.482	0.00	0.00
ATOM	19987	C	GLY	1339	77.461	50.490	62.857	0.00	0.00
ATOM	19988	O	GLY	1339	76.608	51.279	63.150	0.00	0.00
ATOM	19989	N	ARG	1340	78.708	50.958	62.668	0.00	0.00

ATOM 19990	H	ARG	1340	79.372	50.468	62.086	0.00	0.00
ATOM 19991	CA	ARG	1340	79.225	52.187	63.175	0.00	0.00
ATOM 19992	HA	ARG	1340	78.559	52.452	63.997	0.00	0.00
ATOM 19993	CB	ARG	1340	80.610	52.023	63.810	0.00	0.00
ATOM 19994	HB2	ARG	1340	81.355	51.598	63.137	0.00	0.00
ATOM 19995	HB3	ARG	1340	80.995	53.034	63.944	0.00	0.00
ATOM 19996	CG	ARG	1340	80.575	51.246	65.155	0.00	0.00
ATOM 19997	HG2	ARG	1340	81.003	51.823	65.975	0.00	0.00
ATOM 19998	HG3	ARG	1340	79.529	51.013	65.354	0.00	0.00
ATOM 19999	CD	ARG	1340	81.295	49.871	65.084	0.00	0.00
ATOM 20000	HD2	ARG	1340	80.912	49.454	64.153	0.00	0.00
ATOM 20001	HD3	ARG	1340	82.343	50.166	65.038	0.00	0.00
ATOM 20002	NE	ARG	1340	80.983	49.044	66.259	0.00	0.00
ATOM 20003	HE	ARG	1340	80.699	49.528	67.099	0.00	0.00
ATOM 20004	CZ	ARG	1340	81.074	47.763	66.357	0.00	0.00
ATOM 20005	NH1	ARG	1340	81.743	46.984	65.492	0.00	0.00
ATOM 20006	1HH1	ARG	1340	81.801	45.988	65.654	0.00	0.00
ATOM 20007	2HH1	ARG	1340	82.397	47.555	64.977	0.00	0.00
ATOM 20008	NH2	ARG	1340	80.448	47.207	67.347	0.00	0.00
ATOM 20009	1HH2	ARG	1340	80.783	46.265	67.486	0.00	0.00
ATOM 20010	2HH2	ARG	1340	80.038	47.822	68.036	0.00	0.00
ATOM 20011	C	ARG	1340	79.242	53.384	62.200	0.00	0.00
ATOM 20012	O	ARG	1340	79.521	53.289	61.009	0.00	0.00
ATOM 20013	N	VAL	1341	78.913	54.507	62.821	0.00	0.00
ATOM 20014	H	VAL	1341	78.814	54.450	63.825	0.00	0.00
ATOM 20015	CA	VAL	1341	78.494	55.739	61.989	0.00	0.00

ATOM	20016	HA	VAL	1341	78.333	55.313	60.999	0.00	0.00
ATOM	20017	CB	VAL	1341	77.077	56.180	62.410	0.00	0.00
ATOM	20018	HB	VAL	1341	76.487	55.270	62.523	0.00	0.00
ATOM	20019	CG1	VAL	1341	77.194	57.004	63.716	0.00	0.00
ATOM	20020	1HG1	VAL	1341	77.631	56.331	64.454	0.00	0.00
ATOM	20021	2HG1	VAL	1341	77.842	57.877	63.643	0.00	0.00
ATOM	20022	3HG1	VAL	1341	76.213	57.268	64.111	0.00	0.00
ATOM	20023	CG2	VAL	1341	76.347	57.091	61.420	0.00	0.00
ATOM	20024	1HG2	VAL	1341	75.321	57.259	61.750	0.00	0.00
ATOM	20025	2HG2	VAL	1341	76.827	58.069	61.435	0.00	0.00
ATOM	20026	3HG2	VAL	1341	76.319	56.526	60.488	0.00	0.00
ATOM	20027	C	VAL	1341	79.606	56.783	61.772	0.00	0.00
ATOM	20028	O	VAL	1341	79.693	57.326	60.689	0.00	0.00
ATOM	20029	N	GLY	1342	80.441	56.984	62.801	0.00	0.00
ATOM	20030	H	GLY	1342	80.188	56.637	63.715	0.00	0.00
ATOM	20031	CA	GLY	1342	81.564	57.920	62.658	0.00	0.00
ATOM	20032	HA2	GLY	1342	81.430	58.764	61.982	0.00	0.00
ATOM	20033	HA3	GLY	1342	81.768	58.402	63.614	0.00	0.00
ATOM	20034	C	GLY	1342	82.838	57.199	62.251	0.00	0.00
ATOM	20035	O	GLY	1342	83.914	57.745	62.575	0.00	0.00
ATOM	20036	N	GLU	1343	82.735	56.054	61.624	0.00	0.00
ATOM	20037	H	GLU	1343	81.824	55.623	61.548	0.00	0.00
ATOM	20038	CA	GLU	1343	83.875	55.061	61.600	0.00	0.00
ATOM	20039	HA	GLU	1343	84.824	55.443	61.975	0.00	0.00
ATOM	20040	CB	GLU	1343	83.530	53.975	62.627	0.00	0.00
ATOM	20041	HB2	GLU	1343	83.006	54.437	63.463	0.00	0.00

ATOM	20042	HB3	GLU	1343	82.793	53.235	62.316	0.00	0.00
ATOM	20043	CG	GLU	1343	84.796	53.363	63.238	0.00	0.00
ATOM	20044	HG2	GLU	1343	85.278	52.766	62.465	0.00	0.00
ATOM	20045	HG3	GLU	1343	85.489	54.145	63.548	0.00	0.00
ATOM	20046	CD	GLU	1343	84.449	52.632	64.455	0.00	0.00
ATOM	20047	OE1	GLU	1343	84.223	53.240	65.559	0.00	0.00
ATOM	20048	OE2	GLU	1343	84.374	51.395	64.383	0.00	0.00
ATOM	20049	C	GLU	1343	84.068	54.436	60.188	0.00	0.00
ATOM	20050	O	GLU	1343	84.890	53.532	59.971	0.00	0.00
ATOM	20051	N	VAL	1344	83.399	55.041	59.105	0.00	0.00
ATOM	20052	H	VAL	1344	82.669	55.679	59.389	0.00	0.00
ATOM	20053	CA	VAL	1344	83.382	54.403	57.791	0.00	0.00
ATOM	20054	HA	VAL	1344	83.460	53.319	57.878	0.00	0.00
ATOM	20055	CB	VAL	1344	82.088	54.734	57.017	0.00	0.00
ATOM	20056	HB	VAL	1344	82.295	54.561	55.961	0.00	0.00
ATOM	20057	CG1	VAL	1344	80.968	53.820	57.547	0.00	0.00
ATOM	20058	1HG1	VAL	1344	80.019	53.953	57.027	0.00	0.00
ATOM	20059	2HG1	VAL	1344	81.173	52.760	57.399	0.00	0.00
ATOM	20060	3HG1	VAL	1344	80.691	54.037	58.579	0.00	0.00
ATOM	20061	CG2	VAL	1344	81.762	56.260	57.059	0.00	0.00
ATOM	20062	1HG2	VAL	1344	81.550	56.670	58.047	0.00	0.00
ATOM	20063	2HG2	VAL	1344	82.621	56.833	56.709	0.00	0.00
ATOM	20064	3HG2	VAL	1344	81.001	56.506	56.319	0.00	0.00
ATOM	20065	C	VAL	1344	84.654	54.715	56.998	0.00	0.00
ATOM	20066	O	VAL	1344	84.981	53.923	56.163	0.00	0.00
ATOM	20067	N	ILE	1345	85.243	55.858	57.177	0.00	0.00

ATOM 20068	H	ILE	1345	84.826	56.533	57.802	0.00	0.00
ATOM 20069	CA	ILE	1345	86.417	56.329	56.499	0.00	0.00
ATOM 20070	HA	ILE	1345	86.294	56.127	55.436	0.00	0.00
ATOM 20071	CB	ILE	1345	86.583	57.872	56.701	0.00	0.00
ATOM 20072	HB	ILE	1345	86.948	58.057	57.711	0.00	0.00
ATOM 20073	CG2	ILE	1345	87.762	58.276	55.792	0.00	0.00
ATOM 20074	1HG2	ILE	1345	87.918	59.334	56.002	0.00	0.00
ATOM 20075	2HG2	ILE	1345	88.736	57.830	55.989	0.00	0.00
ATOM 20076	3HG2	ILE	1345	87.456	58.136	54.755	0.00	0.00
ATOM 20077	CG1	ILE	1345	85.374	58.793	56.454	0.00	0.00
ATOM 20078	2HG1	ILE	1345	84.617	58.750	57.237	0.00	0.00
ATOM 20079	3HG1	ILE	1345	85.760	59.811	56.497	0.00	0.00
ATOM 20080	CD1	ILE	1345	84.585	58.600	55.149	0.00	0.00
ATOM 20081	1HD1	ILE	1345	84.703	59.468	54.500	0.00	0.00
ATOM 20082	2HD1	ILE	1345	84.971	57.793	54.526	0.00	0.00
ATOM 20083	3HD1	ILE	1345	83.524	58.375	55.257	0.00	0.00
ATOM 20084	C	ILE	1345	87.674	55.643	57.106	0.00	0.00
ATOM 20085	O	ILE	1345	88.347	54.947	56.399	0.00	0.00
ATOM 20086	N	LEU	1346	87.805	55.605	58.429	0.00	0.00
ATOM 20087	H	LEU	1346	87.059	56.070	58.927	0.00	0.00
ATOM 20088	CA	LEU	1346	88.768	54.827	59.227	0.00	0.00
ATOM 20089	HA	LEU	1346	89.756	55.277	59.129	0.00	0.00
ATOM 20090	CB	LEU	1346	88.391	55.051	60.695	0.00	0.00
ATOM 20091	HB2	LEU	1346	88.477	56.097	60.988	0.00	0.00
ATOM 20092	HB3	LEU	1346	87.353	54.721	60.733	0.00	0.00
ATOM 20093	CG	LEU	1346	89.224	54.251	61.778	0.00	0.00



ATOM 20094	HG	LEU	1346	89.208	53.195	61.509	0.00	0.00
ATOM 20095	CD1	LEU	1346	90.700	54.648	61.825	0.00	0.00
ATOM 20096	1HD1	LEU	1346	91.181	53.959	62.519	0.00	0.00
ATOM 20097	2HD1	LEU	1346	91.145	54.502	60.841	0.00	0.00
ATOM 20098	3HD1	LEU	1346	90.820	55.623	62.297	0.00	0.00
ATOM 20099	CD2	LEU	1346	88.508	54.368	63.146	0.00	0.00
ATOM 20100	1HD2	LEU	1346	89.118	53.908	63.923	0.00	0.00
ATOM 20101	2HD2	LEU	1346	88.422	55.432	63.369	0.00	0.00
ATOM 20102	3HD2	LEU	1346	87.540	53.873	63.216	0.00	0.00
ATOM 20103	C	LEU	1346	88.770	53.329	58.839	0.00	0.00
ATOM 20104	O	LEU	1346	89.738	52.738	58.457	0.00	0.00
ATOM 20105	N	ARG	1347	87.609	52.628	58.998	0.00	0.00
ATOM 20106	H	ARG	1347	86.767	53.108	59.281	0.00	0.00
ATOM 20107	CA	ARG	1347	87.501	51.241	58.560	0.00	0.00
ATOM 20108	HA	ARG	1347	88.248	50.670	59.112	0.00	0.00
ATOM 20109	CB	ARG	1347	86.098	50.722	58.993	0.00	0.00
ATOM 20110	HB2	ARG	1347	85.382	51.471	58.654	0.00	0.00
ATOM 20111	HB3	ARG	1347	85.878	49.755	58.542	0.00	0.00
ATOM 20112	CG	ARG	1347	85.953	50.468	60.460	0.00	0.00
ATOM 20113	HG2	ARG	1347	86.694	49.707	60.705	0.00	0.00
ATOM 20114	HG3	ARG	1347	86.113	51.385	61.027	0.00	0.00
ATOM 20115	CD	ARG	1347	84.614	49.805	60.762	0.00	0.00
ATOM 20116	HD2	ARG	1347	83.871	50.578	60.566	0.00	0.00
ATOM 20117	HD3	ARG	1347	84.398	48.954	60.116	0.00	0.00
ATOM 20118	NE	ARG	1347	84.601	49.512	62.130	0.00	0.00
ATOM 20119	HE	ARG	1347	84.482	50.326	62.715	0.00	0.00

ATOM	20120	CZ	ARG	1347	85.051	48.418	62.776	0.00	0.00
ATOM	20121	NH1	ARG	1347	85.415	47.388	62.214	0.00	0.00
ATOM	20122	1HH1	ARG	1347	85.989	46.847	62.845	0.00	0.00
ATOM	20123	2HH1	ARG	1347	85.482	47.421	61.206	0.00	0.00
ATOM	20124	NH2	ARG	1347	85.037	48.351	64.058	0.00	0.00
ATOM	20125	1HH2	ARG	1347	85.605	47.631	64.481	0.00	0.00
ATOM	20126	2HH2	ARG	1347	84.614	49.118	64.561	0.00	0.00
ATOM	20127	C	ARG	1347	87.613	50.898	57.134	0.00	0.00
ATOM	20128	O	ARG	1347	88.015	49.782	56.841	0.00	0.00
ATOM	20129	N	THR	1348	87.280	51.791	56.261	0.00	0.00
ATOM	20130	H	THR	1348	86.724	52.589	56.534	0.00	0.00
ATOM	20131	CA	THR	1348	87.710	51.578	54.825	0.00	0.00
ATOM	20132	HA	THR	1348	87.465	50.579	54.466	0.00	0.00
ATOM	20133	CB	THR	1348	87.067	52.666	53.934	0.00	0.00
ATOM	20134	HB	THR	1348	87.235	53.646	54.382	0.00	0.00
ATOM	20135	CG2	THR	1348	87.414	52.523	52.434	0.00	0.00
ATOM	20136	1HG2	THR	1348	86.881	53.296	51.880	0.00	0.00
ATOM	20137	2HG2	THR	1348	88.468	52.789	52.356	0.00	0.00
ATOM	20138	3HG2	THR	1348	87.325	51.470	52.168	0.00	0.00
ATOM	20139	OG1	THR	1348	85.741	52.422	53.946	0.00	0.00
ATOM	20140	HG1	THR	1348	85.425	52.864	54.737	0.00	0.00
ATOM	20141	C	THR	1348	89.233	51.597	54.686	0.00	0.00
ATOM	20142	O	THR	1348	89.830	50.839	53.844	0.00	0.00
ATOM	20143	N	TRP	1349	89.938	52.431	55.453	0.00	0.00
ATOM	20144	H	TRP	1349	89.403	52.922	56.154	0.00	0.00
ATOM	20145	CA	TRP	1349	91.380	52.594	55.356	0.00	0.00

ATOM	20146	HA	TRP	1349	91.674	52.409	54.322	0.00	0.00
ATOM	20147	CB	TRP	1349	92.056	53.898	55.646	0.00	0.00
ATOM	20148	HB2	TRP	1349	92.017	54.123	56.711	0.00	0.00
ATOM	20149	HB3	TRP	1349	93.066	53.691	55.291	0.00	0.00
ATOM	20150	CG	TRP	1349	91.693	55.009	54.781	0.00	0.00
ATOM	20151	CD1	TRP	1349	91.088	56.141	55.068	0.00	0.00
ATOM	20152	HD1	TRP	1349	90.574	56.278	56.008	0.00	0.00
ATOM	20153	NE1	TRP	1349	90.853	56.897	53.945	0.00	0.00
ATOM	20154	HE1	TRP	1349	90.165	57.629	54.048	0.00	0.00
ATOM	20155	CE2	TRP	1349	91.418	56.283	52.830	0.00	0.00
ATOM	20156	CZ2	TRP	1349	91.465	56.619	51.434	0.00	0.00
ATOM	20157	HZ2	TRP	1349	91.073	57.566	51.093	0.00	0.00
ATOM	20158	CH2	TRP	1349	92.037	55.702	50.595	0.00	0.00
ATOM	20159	HH2	TRP	1349	91.952	55.867	49.531	0.00	0.00
ATOM	20160	CZ3	TRP	1349	92.610	54.513	51.089	0.00	0.00
ATOM	20161	HZ3	TRP	1349	92.969	53.769	50.393	0.00	0.00
ATOM	20162	CE3	TRP	1349	92.593	54.192	52.453	0.00	0.00
ATOM	20163	HE3	TRP	1349	92.842	53.179	52.732	0.00	0.00
ATOM	20164	CD2	TRP	1349	91.996	55.076	53.387	0.00	0.00
ATOM	20165	C	TRP	1349	92.009	51.391	56.057	0.00	0.00
ATOM	20166	O	TRP	1349	93.035	50.918	55.573	0.00	0.00
ATOM	20167	N	GLN	1350	91.490	50.854	57.146	0.00	0.00
ATOM	20168	H	GLN	1350	90.721	51.276	57.646	0.00	0.00
ATOM	20169	CA	GLN	1350	92.164	49.696	57.842	0.00	0.00
ATOM	20170	HA	GLN	1350	93.222	49.946	57.920	0.00	0.00
ATOM	20171	CB	GLN	1350	91.448	49.361	59.188	0.00	0.00

ATOM 20172	HB2	GLN	1350	90.384	49.305	58.962	0.00	0.00
ATOM 20173	HB3	GLN	1350	91.701	48.348	59.502	0.00	0.00
ATOM 20174	CG	GLN	1350	91.699	50.222	60.380	0.00	0.00
ATOM 20175	HG2	GLN	1350	91.290	51.217	60.205	0.00	0.00
ATOM 20176	HG3	GLN	1350	91.117	49.736	61.163	0.00	0.00
ATOM 20177	CD	GLN	1350	93.106	50.517	60.868	0.00	0.00
ATOM 20178	OE1	GLN	1350	93.943	50.868	60.076	0.00	0.00
ATOM 20179	NE2	GLN	1350	93.424	50.506	62.102	0.00	0.00
ATOM 20180	1HE2	GLN	1350	94.405	50.664	62.282	0.00	0.00
ATOM 20181	2HE2	GLN	1350	92.822	50.321	62.892	0.00	0.00
ATOM 20182	C	GLN	1350	92.089	48.362	57.046	0.00	0.00
ATOM 20183	O	GLN	1350	92.989	47.582	57.118	0.00	0.00
ATOM 20184	N	VAL	1351	91.047	48.129	56.281	0.00	0.00
ATOM 20185	H	VAL	1351	90.384	48.891	56.273	0.00	0.00
ATOM 20186	CA	VAL	1351	90.895	47.104	55.282	0.00	0.00
ATOM 20187	HA	VAL	1351	91.053	46.139	55.764	0.00	0.00
ATOM 20188	CB	VAL	1351	89.494	47.128	54.612	0.00	0.00
ATOM 20189	HB	VAL	1351	89.335	48.159	54.298	0.00	0.00
ATOM 20190	CG1	VAL	1351	89.245	46.128	53.475	0.00	0.00
ATOM 20191	1HG1	VAL	1351	89.270	45.126	53.901	0.00	0.00
ATOM 20192	2HG1	VAL	1351	88.335	46.518	53.018	0.00	0.00
ATOM 20193	3HG1	VAL	1351	90.013	46.300	52.721	0.00	0.00
ATOM 20194	CG2	VAL	1351	88.494	46.866	55.719	0.00	0.00
ATOM 20195	1HG2	VAL	1351	88.696	45.924	56.228	0.00	0.00
ATOM 20196	2HG2	VAL	1351	88.515	47.588	56.535	0.00	0.00
ATOM 20197	3HG2	VAL	1351	87.475	46.736	55.353	0.00	0.00

ATOM	20198	C	VAL	1351	91.968	47.352	54.265	0.00	0.00
ATOM	20199	O	VAL	1351	92.730	46.342	54.067	0.00	0.00
ATOM	20200	N	ALA	1352	92.226	48.500	53.629	0.00	0.00
ATOM	20201	H	ALA	1352	91.769	49.339	53.956	0.00	0.00
ATOM	20202	CA	ALA	1352	93.305	48.658	52.713	0.00	0.00
ATOM	20203	HA	ALA	1352	93.159	48.003	51.855	0.00	0.00
ATOM	20204	CB	ALA	1352	93.335	50.117	52.199	0.00	0.00
ATOM	20205	HB1	ALA	1352	93.579	50.761	53.044	0.00	0.00
ATOM	20206	HB2	ALA	1352	94.116	50.238	51.448	0.00	0.00
ATOM	20207	HB3	ALA	1352	92.390	50.534	51.851	0.00	0.00
ATOM	20208	C	ALA	1352	94.681	48.328	53.366	0.00	0.00
ATOM	20209	O	ALA	1352	95.447	47.545	52.747	0.00	0.00
ATOM	20210	N	HIE	1353	94.930	48.747	54.606	0.00	0.00
ATOM	20211	H	HIE	1353	94.205	49.252	55.095	0.00	0.00
ATOM	20212	CA	HIE	1353	96.117	48.319	55.389	0.00	0.00
ATOM	20213	HA	HIE	1353	97.032	48.541	54.840	0.00	0.00
ATOM	20214	CB	HIE	1353	96.294	49.032	56.655	0.00	0.00
ATOM	20215	HB2	HIE	1353	96.408	50.111	56.548	0.00	0.00
ATOM	20216	HB3	HIE	1353	95.407	48.940	57.281	0.00	0.00
ATOM	20217	CG	HIE	1353	97.516	48.572	57.493	0.00	0.00
ATOM	20218	ND1	HIE	1353	98.819	48.980	57.342	0.00	0.00
ATOM	20219	CE1	HIE	1353	99.457	48.172	58.246	0.00	0.00
ATOM	20220	HE1	HIE	1353	100.521	48.220	58.425	0.00	0.00
ATOM	20221	NE2	HIE	1353	98.569	47.398	58.911	0.00	0.00
ATOM	20222	HE2	HIE	1353	98.872	46.607	59.460	0.00	0.00
ATOM	20223	CD2	HIE	1353	97.306	47.626	58.421	0.00	0.00

ATOM	20224	HD2	HIE	1353	96.354	47.245	58.760	0.00	0.00
ATOM	20225	C	HIE	1353	96.179	46.819	55.564	0.00	0.00
ATOM	20226	O	HIE	1353	97.171	46.239	55.210	0.00	0.00
ATOM	20227	N	ARG	1354	95.084	46.168	56.081	0.00	0.00
ATOM	20228	H	ARG	1354	94.313	46.726	56.418	0.00	0.00
ATOM	20229	CA	ARG	1354	94.954	44.731	56.237	0.00	0.00
ATOM	20230	HA	ARG	1354	95.695	44.464	56.991	0.00	0.00
ATOM	20231	CB	ARG	1354	93.713	44.297	56.939	0.00	0.00
ATOM	20232	HB2	ARG	1354	93.553	44.877	57.848	0.00	0.00
ATOM	20233	HB3	ARG	1354	92.880	44.591	56.301	0.00	0.00
ATOM	20234	CG	ARG	1354	93.595	42.784	57.396	0.00	0.00
ATOM	20235	HG2	ARG	1354	94.556	42.328	57.638	0.00	0.00
ATOM	20236	HG3	ARG	1354	92.833	42.628	58.159	0.00	0.00
ATOM	20237	CD	ARG	1354	93.014	41.931	56.240	0.00	0.00
ATOM	20238	HD2	ARG	1354	92.683	42.477	55.357	0.00	0.00
ATOM	20239	HD3	ARG	1354	93.647	41.055	56.096	0.00	0.00
ATOM	20240	NE	ARG	1354	91.767	41.314	56.700	0.00	0.00
ATOM	20241	HE	ARG	1354	90.884	41.452	56.229	0.00	0.00
ATOM	20242	CZ	ARG	1354	91.682	40.239	57.432	0.00	0.00
ATOM	20243	NH1	ARG	1354	92.697	39.680	58.051	0.00	0.00
ATOM	20244	1HH1	ARG	1354	92.494	38.820	58.540	0.00	0.00
ATOM	20245	2HH1	ARG	1354	93.653	40.004	58.014	0.00	0.00
ATOM	20246	NH2	ARG	1354	90.574	39.746	57.695	0.00	0.00
ATOM	20247	1HH2	ARG	1354	90.472	38.974	58.338	0.00	0.00
ATOM	20248	2HH2	ARG	1354	89.811	40.167	57.184	0.00	0.00
ATOM	20249	C	ARG	1354	95.272	43.843	55.019	0.00	0.00

ATOM	20250	O	ARG	1354	96.001	42.865	55.181	0.00	0.00
ATOM	20251	N	MET	1355	94.826	44.337	53.832	0.00	0.00
ATOM	20252	H	MET	1355	94.156	45.083	53.948	0.00	0.00
ATOM	20253	CA	MET	1355	95.139	43.831	52.549	0.00	0.00
ATOM	20254	HA	MET	1355	95.107	42.741	52.571	0.00	0.00
ATOM	20255	CB	MET	1355	94.114	44.381	51.544	0.00	0.00
ATOM	20256	HB2	MET	1355	94.305	45.450	51.633	0.00	0.00
ATOM	20257	HB3	MET	1355	94.237	43.923	50.562	0.00	0.00
ATOM	20258	CG	MET	1355	92.756	43.946	51.991	0.00	0.00
ATOM	20259	HG2	MET	1355	92.482	44.272	52.994	0.00	0.00
ATOM	20260	HG3	MET	1355	92.039	44.418	51.319	0.00	0.00
ATOM	20261	SD	MET	1355	92.365	42.163	51.973	0.00	0.00
ATOM	20262	CE	MET	1355	90.972	41.931	53.066	0.00	0.00
ATOM	20263	HE1	MET	1355	91.205	42.325	54.055	0.00	0.00
ATOM	20264	HE2	MET	1355	90.047	42.396	52.726	0.00	0.00
ATOM	20265	HE3	MET	1355	90.757	40.863	53.106	0.00	0.00
ATOM	20266	C	MET	1355	96.606	43.974	52.132	0.00	0.00
ATOM	20267	O	MET	1355	97.143	42.974	51.650	0.00	0.00
ATOM	20268	N	LYS	1356	97.211	45.146	52.276	0.00	0.00
ATOM	20269	H	LYS	1356	96.849	45.713	53.030	0.00	0.00
ATOM	20270	CA	LYS	1356	98.583	45.339	51.892	0.00	0.00
ATOM	20271	HA	LYS	1356	98.633	45.203	50.812	0.00	0.00
ATOM	20272	CB	LYS	1356	98.989	46.757	52.178	0.00	0.00
ATOM	20273	HB2	LYS	1356	98.261	47.445	51.749	0.00	0.00
ATOM	20274	HB3	LYS	1356	99.052	47.045	53.227	0.00	0.00
ATOM	20275	CG	LYS	1356	100.269	47.205	51.455	0.00	0.00

ATOM	20276	HG2	LYS	1356	100.376	46.527	50.608	0.00	0.00
ATOM	20277	HG3	LYS	1356	100.164	48.213	51.056	0.00	0.00
ATOM	20278	CD	LYS	1356	101.615	47.149	52.163	0.00	0.00
ATOM	20279	HD2	LYS	1356	101.542	47.832	53.009	0.00	0.00
ATOM	20280	HD3	LYS	1356	101.845	46.105	52.379	0.00	0.00
ATOM	20281	CE	LYS	1356	102.744	47.664	51.319	0.00	0.00
ATOM	20282	HE2	LYS	1356	103.678	47.297	51.745	0.00	0.00
ATOM	20283	HE3	LYS	1356	102.654	47.129	50.374	0.00	0.00
ATOM	20284	NZ	LYS	1356	102.766	49.151	51.286	0.00	0.00
ATOM	20285	HZ1	LYS	1356	102.685	49.527	52.220	0.00	0.00
ATOM	20286	HZ2	LYS	1356	103.607	49.506	50.855	0.00	0.00
ATOM	20287	HZ3	LYS	1356	102.048	49.542	50.692	0.00	0.00
ATOM	20288	C	LYS	1356	99.573	44.359	52.623	0.00	0.00
ATOM	20289	O	LYS	1356	100.414	43.722	51.999	0.00	0.00
ATOM	20290	N	VAL	1357	99.440	44.235	53.994	0.00	0.00
ATOM	20291	H	VAL	1357	98.837	44.900	54.458	0.00	0.00
ATOM	20292	CA	VAL	1357	100.406	43.513	54.809	0.00	0.00
ATOM	20293	HA	VAL	1357	101.376	43.455	54.315	0.00	0.00
ATOM	20294	CB	VAL	1357	100.558	44.277	56.134	0.00	0.00
ATOM	20295	HB	VAL	1357	101.454	43.850	56.584	0.00	0.00
ATOM	20296	CG1	VAL	1357	100.764	45.782	55.886	0.00	0.00
ATOM	20297	1HG1	VAL	1357	99.848	46.351	55.726	0.00	0.00
ATOM	20298	2HG1	VAL	1357	101.311	46.087	56.778	0.00	0.00
ATOM	20299	3HG1	VAL	1357	101.443	46.026	55.070	0.00	0.00
ATOM	20300	CG2	VAL	1357	99.444	44.072	57.023	0.00	0.00
ATOM	20301	1HG2	VAL	1357	99.310	44.978	57.614	0.00	0.00



ATOM	20302	2HG2	VAL	1357	98.545	43.934	56.421	0.00	0.00
ATOM	20303	3HG2	VAL	1357	99.670	43.251	57.702	0.00	0.00
ATOM	20304	C	VAL	1357	99.966	42.051	54.973	0.00	0.00
ATOM	20305	O	VAL	1357	100.702	41.368	55.592	0.00	0.00
ATOM	20306	N	GLN	1358	98.878	41.543	54.335	0.00	0.00
ATOM	20307	H	GLN	1358	98.268	42.181	53.845	0.00	0.00
ATOM	20308	CA	GLN	1358	98.584	40.095	54.264	0.00	0.00
ATOM	20309	HA	GLN	1358	99.377	39.453	54.646	0.00	0.00
ATOM	20310	CB	GLN	1358	97.334	39.734	55.126	0.00	0.00
ATOM	20311	HB2	GLN	1358	96.475	40.367	54.906	0.00	0.00
ATOM	20312	HB3	GLN	1358	96.975	38.723	54.932	0.00	0.00
ATOM	20313	CG	GLN	1358	97.624	39.997	56.643	0.00	0.00
ATOM	20314	HG2	GLN	1358	98.467	39.392	56.977	0.00	0.00
ATOM	20315	HG3	GLN	1358	97.875	41.055	56.716	0.00	0.00
ATOM	20316	CD	GLN	1358	96.520	39.733	57.607	0.00	0.00
ATOM	20317	OE1	GLN	1358	95.345	39.517	57.358	0.00	0.00
ATOM	20318	NE2	GLN	1358	96.982	39.684	58.888	0.00	0.00
ATOM	20319	1HE2	GLN	1358	96.258	39.513	59.570	0.00	0.00
ATOM	20320	2HE2	GLN	1358	97.949	39.893	59.092	0.00	0.00
ATOM	20321	C	GLN	1358	98.346	39.580	52.851	0.00	0.00
ATOM	20322	O	GLN	1358	98.948	38.602	52.525	0.00	0.00
ATOM	20323	N	ARG	1359	97.550	40.292	51.985	0.00	0.00
ATOM	20324	H	ARG	1359	97.214	41.176	52.341	0.00	0.00
ATOM	20325	CA	ARG	1359	97.244	40.004	50.574	0.00	0.00
ATOM	20326	HA	ARG	1359	97.364	38.921	50.528	0.00	0.00
ATOM	20327	CB	ARG	1359	95.834	40.504	50.267	0.00	0.00

ATOM	20328	HB2	ARG	1359	95.213	40.562	51.161	0.00	0.00
ATOM	20329	HB3	ARG	1359	95.884	41.489	49.805	0.00	0.00
ATOM	20330	CG	ARG	1359	95.095	39.439	49.344	0.00	0.00
ATOM	20331	HG2	ARG	1359	95.775	39.342	48.497	0.00	0.00
ATOM	20332	HG3	ARG	1359	95.032	38.505	49.901	0.00	0.00
ATOM	20333	CD	ARG	1359	93.651	39.700	48.988	0.00	0.00
ATOM	20334	HD2	ARG	1359	93.296	38.688	48.793	0.00	0.00
ATOM	20335	HD3	ARG	1359	93.099	40.064	49.855	0.00	0.00
ATOM	20336	NE	ARG	1359	93.395	40.678	47.925	0.00	0.00
ATOM	20337	HE	ARG	1359	93.440	41.649	48.200	0.00	0.00
ATOM	20338	CZ	ARG	1359	92.996	40.352	46.689	0.00	0.00
ATOM	20339	NH1	ARG	1359	93.170	39.160	46.240	0.00	0.00
ATOM	20340	1HH1	ARG	1359	93.069	38.957	45.256	0.00	0.00
ATOM	20341	2HH1	ARG	1359	93.584	38.432	46.804	0.00	0.00
ATOM	20342	NH2	ARG	1359	92.658	41.294	45.838	0.00	0.00
ATOM	20343	1HH2	ARG	1359	92.497	41.021	44.879	0.00	0.00
ATOM	20344	2HH2	ARG	1359	92.593	42.265	46.111	0.00	0.00
ATOM	20345	C	ARG	1359	98.200	40.526	49.518	0.00	0.00
ATOM	20346	O	ARG	1359	98.113	40.132	48.347	0.00	0.00
ATOM	20347	N	GLY	1360	99.159	41.413	49.949	0.00	0.00
ATOM	20348	H	GLY	1360	99.063	41.824	50.866	0.00	0.00
ATOM	20349	CA	GLY	1360	100.108	42.123	49.073	0.00	0.00
ATOM	20350	HA2	GLY	1360	100.561	42.969	49.589	0.00	0.00
ATOM	20351	HA3	GLY	1360	100.858	41.516	48.565	0.00	0.00
ATOM	20352	C	GLY	1360	99.462	42.951	47.944	0.00	0.00
ATOM	20353	O	GLY	1360	98.569	43.778	48.083	0.00	0.00

ATOM	20354	N	ALA	1361	100.009	42.674	46.740	0.00	0.00
ATOM	20355	H	ALA	1361	100.663	41.906	46.770	0.00	0.00
ATOM	20356	CA	ALA	1361	99.928	43.561	45.640	0.00	0.00
ATOM	20357	HA	ALA	1361	100.110	44.542	46.078	0.00	0.00
ATOM	20358	CB	ALA	1361	101.057	43.305	44.669	0.00	0.00
ATOM	20359	HB1	ALA	1361	100.744	42.398	44.152	0.00	0.00
ATOM	20360	HB2	ALA	1361	101.138	44.154	43.990	0.00	0.00
ATOM	20361	HB3	ALA	1361	101.935	43.131	45.291	0.00	0.00
ATOM	20362	C	ALA	1361	98.563	43.448	44.933	0.00	0.00
ATOM	20363	O	ALA	1361	98.006	42.337	44.824	0.00	0.00
ATOM	20364	N	LEU	1362	98.226	44.626	44.419	0.00	0.00
ATOM	20365	H	LEU	1362	98.775	45.453	44.605	0.00	0.00
ATOM	20366	CA	LEU	1362	96.951	44.785	43.764	0.00	0.00
ATOM	20367	HA	LEU	1362	96.445	43.837	43.584	0.00	0.00
ATOM	20368	CB	LEU	1362	96.059	45.663	44.668	0.00	0.00
ATOM	20369	HB2	LEU	1362	96.212	45.457	45.728	0.00	0.00
ATOM	20370	HB3	LEU	1362	96.242	46.721	44.478	0.00	0.00
ATOM	20371	CG	LEU	1362	94.497	45.532	44.482	0.00	0.00
ATOM	20372	HG	LEU	1362	94.209	45.846	43.478	0.00	0.00
ATOM	20373	CD1	LEU	1362	93.981	44.110	44.598	0.00	0.00
ATOM	20374	1HD1	LEU	1362	94.411	43.644	43.711	0.00	0.00
ATOM	20375	2HD1	LEU	1362	94.330	43.588	45.489	0.00	0.00
ATOM	20376	3HD1	LEU	1362	92.915	44.024	44.387	0.00	0.00
ATOM	20377	CD2	LEU	1362	93.745	46.527	45.406	0.00	0.00
ATOM	20378	1HD2	LEU	1362	92.696	46.421	45.131	0.00	0.00
ATOM	20379	2HD2	LEU	1362	93.960	46.474	46.474	0.00	0.00

ATOM	20380	3HD2	LEU	1362	94.031	47.508	45.026	0.00	0.00
ATOM	20381	C	LEU	1362	96.936	45.451	42.398	0.00	0.00
ATOM	20382	O	LEU	1362	95.962	45.420	41.570	0.00	0.00
ATOM	20383	N	ALA	1363	97.983	46.218	42.104	0.00	0.00
ATOM	20384	H	ALA	1363	98.778	46.205	42.726	0.00	0.00
ATOM	20385	CA	ALA	1363	98.310	46.934	40.900	0.00	0.00
ATOM	20386	HA	ALA	1363	97.450	47.546	40.626	0.00	0.00
ATOM	20387	CB	ALA	1363	99.446	47.861	41.222	0.00	0.00
ATOM	20388	HB1	ALA	1363	99.812	48.392	40.343	0.00	0.00
ATOM	20389	HB2	ALA	1363	99.172	48.571	42.002	0.00	0.00
ATOM	20390	HB3	ALA	1363	100.337	47.328	41.555	0.00	0.00
ATOM	20391	C	ALA	1363	98.643	46.041	39.707	0.00	0.00
ATOM	20392	O	ALA	1363	99.139	44.941	39.778	0.00	0.00
ATOM	20393	N	GLU	1364	98.445	46.595	38.456	0.00	0.00
ATOM	20394	H	GLU	1364	98.101	47.544	38.481	0.00	0.00
ATOM	20395	CA	GLU	1364	98.688	46.017	37.124	0.00	0.00
ATOM	20396	HA	GLU	1364	98.443	44.959	37.030	0.00	0.00
ATOM	20397	CB	GLU	1364	97.790	46.740	36.036	0.00	0.00
ATOM	20398	HB2	GLU	1364	97.987	47.805	36.154	0.00	0.00
ATOM	20399	HB3	GLU	1364	97.983	46.465	34.999	0.00	0.00
ATOM	20400	CG	GLU	1364	96.289	46.567	36.311	0.00	0.00
ATOM	20401	HG2	GLU	1364	95.958	45.551	36.096	0.00	0.00
ATOM	20402	HG3	GLU	1364	95.997	46.772	37.341	0.00	0.00
ATOM	20403	CD	GLU	1364	95.464	47.521	35.452	0.00	0.00
ATOM	20404	OE1	GLU	1364	95.977	48.465	34.813	0.00	0.00
ATOM	20405	OE2	GLU	1364	94.257	47.264	35.466	0.00	0.00

ATOM	20406	C	GLU	1364	100.192	46.080	36.762	0.00	0.00
ATOM	20407	O	GLU	1364	100.665	45.676	35.671	0.00	0.00
ATOM	20408	N	GLU	1365	100.941	46.842	37.620	0.00	0.00
ATOM	20409	H	GLU	1365	100.490	47.167	38.464	0.00	0.00
ATOM	20410	CA	GLU	1365	102.382	47.183	37.322	0.00	0.00
ATOM	20411	HA	GLU	1365	102.813	46.666	36.465	0.00	0.00
ATOM	20412	CB	GLU	1365	102.495	48.707	36.977	0.00	0.00
ATOM	20413	HB2	GLU	1365	103.497	48.749	36.551	0.00	0.00
ATOM	20414	HB3	GLU	1365	101.836	49.062	36.184	0.00	0.00
ATOM	20415	CG	GLU	1365	102.273	49.737	38.116	0.00	0.00
ATOM	20416	HG2	GLU	1365	101.397	49.428	38.687	0.00	0.00
ATOM	20417	HG3	GLU	1365	103.095	49.458	38.775	0.00	0.00
ATOM	20418	CD	GLU	1365	102.160	51.234	37.777	0.00	0.00
ATOM	20419	OE1	GLU	1365	101.254	51.747	37.071	0.00	0.00
ATOM	20420	OE2	GLU	1365	103.035	51.962	38.152	0.00	0.00
ATOM	20421	C	GLU	1365	103.231	46.811	38.481	0.00	0.00
ATOM	20422	O	GLU	1365	102.753	46.418	39.552	0.00	0.00
ATOM	20423	N	THR	1366	104.538	46.817	38.267	0.00	0.00
ATOM	20424	H	THR	1366	104.916	47.073	37.366	0.00	0.00
ATOM	20425	CA	THR	1366	105.527	46.456	39.331	0.00	0.00
ATOM	20426	HA	THR	1366	105.186	45.598	39.911	0.00	0.00
ATOM	20427	CB	THR	1366	106.878	46.021	38.660	0.00	0.00
ATOM	20428	HB	THR	1366	107.611	45.895	39.457	0.00	0.00
ATOM	20429	CG2	THR	1366	106.751	44.619	37.950	0.00	0.00
ATOM	20430	1HG2	THR	1366	106.131	43.999	38.598	0.00	0.00
ATOM	20431	2HG2	THR	1366	106.243	44.669	36.987	0.00	0.00

ATOM 20432 3HG2 THR 1366 107.753 44.189 37.944 0.00 0.00  
ATOM 20433 OG1 THR 1366 107.503 46.954 37.761 0.00 0.00  
ATOM 20434 HG1 THR 1366 106.983 46.878 36.957 0.00 0.00  
ATOM 20435 C THR 1366 105.756 47.592 40.298 0.00 0.00  
ATOM 20436 O THR 1366 106.669 47.464 41.173 0.00 0.00  
ATOM 20437 N GLY 1367 104.999 48.688 40.139 0.00 0.00  
ATOM 20438 H GLY 1367 104.382 48.722 39.340 0.00 0.00  
ATOM 20439 CA GLY 1367 105.328 49.962 40.871 0.00 0.00  
ATOM 20440 HA2 GLY 1367 106.240 50.424 40.492 0.00 0.00  
ATOM 20441 HA3 GLY 1367 104.506 50.641 40.643 0.00 0.00  
ATOM 20442 C GLY 1367 105.225 49.921 42.425 0.00 0.00  
ATOM 20443 O GLY 1367 104.150 49.772 43.002 0.00 0.00  
ATOM 20444 N ASP 1368 106.384 50.031 43.142 0.00 0.00  
ATOM 20445 H ASP 1368 107.225 49.971 42.586 0.00 0.00  
ATOM 20446 CA ASP 1368 106.626 50.216 44.621 0.00 0.00  
ATOM 20447 HA ASP 1368 106.054 49.340 44.928 0.00 0.00  
ATOM 20448 CB ASP 1368 108.104 50.034 45.170 0.00 0.00  
ATOM 20449 HB2 ASP 1368 108.336 49.054 44.754 0.00 0.00  
ATOM 20450 HB3 ASP 1368 108.093 49.935 46.255 0.00 0.00  
ATOM 20451 CG ASP 1368 109.042 51.196 44.763 0.00 0.00  
ATOM 20452 OD1 ASP 1368 108.863 51.798 43.627 0.00 0.00  
ATOM 20453 OD2 ASP 1368 110.069 51.471 45.466 0.00 0.00  
ATOM 20454 C ASP 1368 105.910 51.394 45.322 0.00 0.00  
ATOM 20455 O ASP 1368 106.322 51.904 46.354 0.00 0.00  
ATOM 20456 N ASN 1369 104.781 51.868 44.825 0.00 0.00  
ATOM 20457 H ASN 1369 104.373 51.303 44.094 0.00 0.00

ATOM	20458	CA	ASN	1369	103.792	52.677	45.592	0.00	0.00
ATOM	20459	HA	ASN	1369	104.258	52.781	46.571	0.00	0.00
ATOM	20460	CB	ASN	1369	103.685	54.078	45.034	0.00	0.00
ATOM	20461	HB2	ASN	1369	103.054	54.830	45.507	0.00	0.00
ATOM	20462	HB3	ASN	1369	104.714	54.438	45.031	0.00	0.00
ATOM	20463	CG	ASN	1369	103.188	53.953	43.559	0.00	0.00
ATOM	20464	OD1	ASN	1369	101.973	53.867	43.351	0.00	0.00
ATOM	20465	ND2	ASN	1369	104.104	53.911	42.587	0.00	0.00
ATOM	20466	1HD2	ASN	1369	103.826	53.999	41.620	0.00	0.00
ATOM	20467	2HD2	ASN	1369	105.050	54.149	42.848	0.00	0.00
ATOM	20468	C	ASN	1369	102.434	52.026	45.893	0.00	0.00
ATOM	20469	O	ASN	1369	102.159	50.970	45.278	0.00	0.00
ATOM	20470	N	ASP	1370	101.560	52.675	46.784	0.00	0.00
ATOM	20471	H	ASP	1370	101.973	53.334	47.428	0.00	0.00
ATOM	20472	CA	ASP	1370	100.225	52.067	47.115	0.00	0.00
ATOM	20473	HA	ASP	1370	100.247	51.085	46.642	0.00	0.00
ATOM	20474	CB	ASP	1370	100.048	51.959	48.644	0.00	0.00
ATOM	20475	HB2	ASP	1370	100.047	52.946	49.106	0.00	0.00
ATOM	20476	HB3	ASP	1370	99.075	51.601	48.982	0.00	0.00
ATOM	20477	CG	ASP	1370	101.035	51.056	49.315	0.00	0.00
ATOM	20478	OD1	ASP	1370	100.902	49.803	49.251	0.00	0.00
ATOM	20479	OD2	ASP	1370	101.892	51.509	50.100	0.00	0.00
ATOM	20480	C	ASP	1370	99.014	52.790	46.372	0.00	0.00
ATOM	20481	O	ASP	1370	97.851	52.666	46.730	0.00	0.00
ATOM	20482	N	ASN	1371	99.327	53.648	45.431	0.00	0.00
ATOM	20483	H	ASN	1371	100.295	53.791	45.181	0.00	0.00

ATOM 20484	CA	ASN	1371	98.401	54.484	44.796	0.00	0.00
ATOM 20485	HA	ASN	1371	97.997	55.167	45.545	0.00	0.00
ATOM 20486	CB	ASN	1371	99.072	55.286	43.683	0.00	0.00
ATOM 20487	HB2	ASN	1371	99.470	54.668	42.878	0.00	0.00
ATOM 20488	HB3	ASN	1371	98.241	55.763	43.162	0.00	0.00
ATOM 20489	CG	ASN	1371	100.006	56.399	44.139	0.00	0.00
ATOM 20490	OD1	ASN	1371	100.576	56.604	45.219	0.00	0.00
ATOM 20491	ND2	ASN	1371	100.209	57.248	43.207	0.00	0.00
ATOM 20492	1HD2	ASN	1371	100.622	58.116	43.515	0.00	0.00
ATOM 20493	2HD2	ASN	1371	99.872	57.057	42.274	0.00	0.00
ATOM 20494	C	ASN	1371	97.191	53.784	44.113	0.00	0.00
ATOM 20495	O	ASN	1371	96.081	54.334	44.047	0.00	0.00
ATOM 20496	N	PHE	1372	97.428	52.557	43.648	0.00	0.00
ATOM 20497	H	PHE	1372	98.368	52.222	43.810	0.00	0.00
ATOM 20498	CA	PHE	1372	96.431	51.849	42.863	0.00	0.00
ATOM 20499	HA	PHE	1372	95.870	52.609	42.319	0.00	0.00
ATOM 20500	CB	PHE	1372	96.993	50.896	41.846	0.00	0.00
ATOM 20501	HB2	PHE	1372	97.644	51.535	41.249	0.00	0.00
ATOM 20502	HB3	PHE	1372	97.689	50.140	42.211	0.00	0.00
ATOM 20503	CG	PHE	1372	96.020	50.131	40.952	0.00	0.00
ATOM 20504	CD1	PHE	1372	95.403	49.026	41.475	0.00	0.00
ATOM 20505	HD1	PHE	1372	95.446	48.806	42.531	0.00	0.00
ATOM 20506	CE1	PHE	1372	94.606	48.224	40.647	0.00	0.00
ATOM 20507	HE1	PHE	1372	94.086	47.360	41.036	0.00	0.00
ATOM 20508	CZ	PHE	1372	94.512	48.483	39.296	0.00	0.00
ATOM 20509	HZ	PHE	1372	93.968	47.786	38.676	0.00	0.00



ATOM	20510	CE2	PHE	1372	94.997	49.657	38.714	0.00	0.00
ATOM	20511	HE2	PHE	1372	94.755	49.905	37.691	0.00	0.00
ATOM	20512	CD2	PHE	1372	95.858	50.442	39.593	0.00	0.00
ATOM	20513	HD2	PHE	1372	96.278	51.358	39.206	0.00	0.00
ATOM	20514	C	PHE	1372	95.425	51.223	43.811	0.00	0.00
ATOM	20515	O	PHE	1372	94.213	51.195	43.567	0.00	0.00
ATOM	20516	N	ARG	1373	95.973	50.706	44.918	0.00	0.00
ATOM	20517	H	ARG	1373	96.972	50.755	45.061	0.00	0.00
ATOM	20518	CA	ARG	1373	95.016	50.344	45.991	0.00	0.00
ATOM	20519	HA	ARG	1373	94.229	49.761	45.513	0.00	0.00
ATOM	20520	CB	ARG	1373	95.638	49.399	47.030	0.00	0.00
ATOM	20521	HB2	ARG	1373	96.046	48.526	46.521	0.00	0.00
ATOM	20522	HB3	ARG	1373	96.564	49.888	47.332	0.00	0.00
ATOM	20523	CG	ARG	1373	94.717	49.064	48.294	0.00	0.00
ATOM	20524	HG2	ARG	1373	94.399	49.994	48.765	0.00	0.00
ATOM	20525	HG3	ARG	1373	93.793	48.597	47.954	0.00	0.00
ATOM	20526	CD	ARG	1373	95.313	48.207	49.348	0.00	0.00
ATOM	20527	HD2	ARG	1373	96.376	48.443	49.408	0.00	0.00
ATOM	20528	HD3	ARG	1373	94.760	48.325	50.280	0.00	0.00
ATOM	20529	NE	ARG	1373	95.112	46.755	49.004	0.00	0.00
ATOM	20530	HE	ARG	1373	94.157	46.470	48.840	0.00	0.00
ATOM	20531	CZ	ARG	1373	96.032	45.962	48.575	0.00	0.00
ATOM	20532	NH1	ARG	1373	97.278	46.195	48.472	0.00	0.00
ATOM	20533	1HH1	ARG	1373	97.932	45.459	48.245	0.00	0.00
ATOM	20534	2HH1	ARG	1373	97.674	47.095	48.700	0.00	0.00
ATOM	20535	NH2	ARG	1373	95.689	44.776	48.221	0.00	0.00

ATOM 20536 1HH2 ARG 1373 96.387 44.289 47.676 0.00 0.00  
ATOM 20537 2HH2 ARG 1373 94.758 44.396 48.314 0.00 0.00  
ATOM 20538 C ARG 1373 94.330 51.533 46.604 0.00 0.00  
ATOM 20539 O ARG 1373 93.132 51.470 46.773 0.00 0.00  
ATOM 20540 N VAL 1374 95.004 52.687 46.758 0.00 0.00  
ATOM 20541 H VAL 1374 95.986 52.602 46.537 0.00 0.00  
ATOM 20542 CA VAL 1374 94.423 53.858 47.433 0.00 0.00  
ATOM 20543 HA VAL 1374 93.948 53.464 48.331 0.00 0.00  
ATOM 20544 CB VAL 1374 95.457 54.853 47.920 0.00 0.00  
ATOM 20545 HB VAL 1374 96.135 54.996 47.078 0.00 0.00  
ATOM 20546 CG1 VAL 1374 95.080 56.379 48.206 0.00 0.00  
ATOM 20547 1HG1 VAL 1374 94.130 56.416 48.740 0.00 0.00  
ATOM 20548 2HG1 VAL 1374 95.907 56.816 48.765 0.00 0.00  
ATOM 20549 3HG1 VAL 1374 94.915 56.846 47.235 0.00 0.00  
ATOM 20550 CG2 VAL 1374 96.138 54.306 49.140 0.00 0.00  
ATOM 20551 1HG2 VAL 1374 95.410 54.333 49.951 0.00 0.00  
ATOM 20552 2HG2 VAL 1374 96.323 53.242 48.989 0.00 0.00  
ATOM 20553 3HG2 VAL 1374 96.952 54.898 49.558 0.00 0.00  
ATOM 20554 C VAL 1374 93.263 54.565 46.667 0.00 0.00  
ATOM 20555 O VAL 1374 92.206 54.918 47.164 0.00 0.00  
ATOM 20556 N LYS 1375 93.501 54.820 45.347 0.00 0.00  
ATOM 20557 H LYS 1375 94.443 54.662 45.018 0.00 0.00  
ATOM 20558 CA LYS 1375 92.430 55.342 44.416 0.00 0.00  
ATOM 20559 HA LYS 1375 92.109 56.232 44.959 0.00 0.00  
ATOM 20560 CB LYS 1375 93.009 55.782 43.088 0.00 0.00  
ATOM 20561 HB2 LYS 1375 93.608 55.049 42.548 0.00 0.00

ATOM	20562	HB3	LYS	1375	92.174	56.140	42.485	0.00	0.00
ATOM	20563	CG	LYS	1375	93.905	57.009	43.191	0.00	0.00
ATOM	20564	HG2	LYS	1375	93.225	57.777	43.559	0.00	0.00
ATOM	20565	HG3	LYS	1375	94.637	56.644	43.912	0.00	0.00
ATOM	20566	CD	LYS	1375	94.642	57.515	41.962	0.00	0.00
ATOM	20567	HD2	LYS	1375	93.918	57.881	41.234	0.00	0.00
ATOM	20568	HD3	LYS	1375	95.195	58.408	42.252	0.00	0.00
ATOM	20569	CE	LYS	1375	95.458	56.468	41.239	0.00	0.00
ATOM	20570	HE2	LYS	1375	96.328	56.133	41.802	0.00	0.00
ATOM	20571	HE3	LYS	1375	94.946	55.525	41.047	0.00	0.00
ATOM	20572	NZ	LYS	1375	95.930	57.061	39.945	0.00	0.00
ATOM	20573	HZ1	LYS	1375	96.516	56.412	39.441	0.00	0.00
ATOM	20574	HZ2	LYS	1375	95.178	57.268	39.303	0.00	0.00
ATOM	20575	HZ3	LYS	1375	96.414	57.925	40.142	0.00	0.00
ATOM	20576	C	LYS	1375	91.243	54.445	44.314	0.00	0.00
ATOM	20577	O	LYS	1375	90.129	54.915	44.188	0.00	0.00
ATOM	20578	N	ARG	1376	91.466	53.140	44.384	0.00	0.00
ATOM	20579	H	ARG	1376	92.412	52.855	44.595	0.00	0.00
ATOM	20580	CA	ARG	1376	90.416	52.068	44.459	0.00	0.00
ATOM	20581	HA	ARG	1376	89.743	52.258	43.623	0.00	0.00
ATOM	20582	CB	ARG	1376	90.952	50.648	44.185	0.00	0.00
ATOM	20583	HB2	ARG	1376	91.310	50.542	43.161	0.00	0.00
ATOM	20584	HB3	ARG	1376	91.857	50.476	44.769	0.00	0.00
ATOM	20585	CG	ARG	1376	89.896	49.543	44.523	0.00	0.00
ATOM	20586	HG2	ARG	1376	89.708	49.635	45.593	0.00	0.00
ATOM	20587	HG3	ARG	1376	88.944	49.739	44.031	0.00	0.00

ATOM	20588	CD	ARG	1376	90.248	48.132	44.069	0.00	0.00
ATOM	20589	HD2	ARG	1376	91.107	47.837	44.672	0.00	0.00
ATOM	20590	HD3	ARG	1376	89.473	47.415	44.342	0.00	0.00
ATOM	20591	NE	ARG	1376	90.551	48.013	42.643	0.00	0.00
ATOM	20592	HE	ARG	1376	90.158	48.673	41.987	0.00	0.00
ATOM	20593	CZ	ARG	1376	90.964	46.859	42.125	0.00	0.00
ATOM	20594	NH1	ARG	1376	91.320	45.816	42.821	0.00	0.00
ATOM	20595	1HH1	ARG	1376	91.572	45.031	42.237	0.00	0.00
ATOM	20596	2HH1	ARG	1376	91.082	45.879	43.801	0.00	0.00
ATOM	20597	NH2	ARG	1376	91.160	46.761	40.842	0.00	0.00
ATOM	20598	1HH2	ARG	1376	91.599	45.942	40.447	0.00	0.00
ATOM	20599	2HH2	ARG	1376	91.032	47.568	40.248	0.00	0.00
ATOM	20600	C	ARG	1376	89.544	52.305	45.737	0.00	0.00
ATOM	20601	O	ARG	1376	88.328	52.238	45.595	0.00	0.00
ATOM	20602	N	TYR	1377	90.167	52.467	46.915	0.00	0.00
ATOM	20603	H	TYR	1377	91.176	52.431	46.930	0.00	0.00
ATOM	20604	CA	TYR	1377	89.409	52.575	48.162	0.00	0.00
ATOM	20605	HA	TYR	1377	88.522	51.957	48.020	0.00	0.00
ATOM	20606	CB	TYR	1377	90.316	52.146	49.279	0.00	0.00
ATOM	20607	HB2	TYR	1377	91.376	52.331	49.108	0.00	0.00
ATOM	20608	HB3	TYR	1377	90.111	52.713	50.187	0.00	0.00
ATOM	20609	CG	TYR	1377	90.362	50.658	49.456	0.00	0.00
ATOM	20610	CD1	TYR	1377	90.928	49.829	48.508	0.00	0.00
ATOM	20611	HD1	TYR	1377	91.398	50.193	47.606	0.00	0.00
ATOM	20612	CE1	TYR	1377	91.142	48.440	48.777	0.00	0.00
ATOM	20613	HE1	TYR	1377	91.707	47.768	48.148	0.00	0.00

ATOM	20614	CZ	TYR	1377	90.704	47.933	50.058	0.00	0.00
ATOM	20615	OH	TYR	1377	90.903	46.645	50.348	0.00	0.00
ATOM	20616	HH	TYR	1377	91.389	46.187	49.658	0.00	0.00
ATOM	20617	CE2	TYR	1377	89.959	48.777	50.940	0.00	0.00
ATOM	20618	HE2	TYR	1377	89.590	48.370	51.870	0.00	0.00
ATOM	20619	CD2	TYR	1377	89.669	50.129	50.609	0.00	0.00
ATOM	20620	HD2	TYR	1377	89.004	50.684	51.254	0.00	0.00
ATOM	20621	C	TYR	1377	88.763	53.978	48.432	0.00	0.00
ATOM	20622	O	TYR	1377	87.588	53.899	48.744	0.00	0.00
ATOM	20623	N	ILE	1378	89.506	55.106	48.076	0.00	0.00
ATOM	20624	H	ILE	1378	90.463	55.087	47.752	0.00	0.00
ATOM	20625	CA	ILE	1378	88.796	56.400	48.313	0.00	0.00
ATOM	20626	HA	ILE	1378	88.549	56.318	49.371	0.00	0.00
ATOM	20627	CB	ILE	1378	89.765	57.609	48.167	0.00	0.00
ATOM	20628	HB	ILE	1378	90.542	57.478	48.920	0.00	0.00
ATOM	20629	CG2	ILE	1378	90.555	57.714	46.859	0.00	0.00
ATOM	20630	1HG2	ILE	1378	90.728	58.736	46.522	0.00	0.00
ATOM	20631	2HG2	ILE	1378	91.540	57.267	46.997	0.00	0.00
ATOM	20632	3HG2	ILE	1378	89.912	57.186	46.155	0.00	0.00
ATOM	20633	CG1	ILE	1378	89.056	58.942	48.523	0.00	0.00
ATOM	20634	2HG1	ILE	1378	88.463	59.292	47.678	0.00	0.00
ATOM	20635	3HG1	ILE	1378	88.307	58.803	49.303	0.00	0.00
ATOM	20636	CD1	ILE	1378	90.001	59.990	49.056	0.00	0.00
ATOM	20637	1HD1	ILE	1378	89.460	60.861	49.425	0.00	0.00
ATOM	20638	2HD1	ILE	1378	90.574	59.606	49.900	0.00	0.00
ATOM	20639	3HD1	ILE	1378	90.682	60.306	48.266	0.00	0.00

ATOM	20640	C	ILE	1378	87.500	56.609	47.476	0.00	0.00
ATOM	20641	O	ILE	1378	86.470	57.131	47.891	0.00	0.00
ATOM	20642	N	ALA	1379	87.464	56.014	46.248	0.00	0.00
ATOM	20643	H	ALA	1379	88.333	55.697	45.844	0.00	0.00
ATOM	20644	CA	ALA	1379	86.200	55.886	45.551	0.00	0.00
ATOM	20645	HA	ALA	1379	85.921	56.928	45.400	0.00	0.00
ATOM	20646	CB	ALA	1379	86.437	55.163	44.207	0.00	0.00
ATOM	20647	HB1	ALA	1379	85.502	55.277	43.659	0.00	0.00
ATOM	20648	HB2	ALA	1379	87.152	55.800	43.686	0.00	0.00
ATOM	20649	HB3	ALA	1379	86.749	54.119	44.187	0.00	0.00
ATOM	20650	C	ALA	1379	84.975	55.276	46.268	0.00	0.00
ATOM	20651	O	ALA	1379	83.843	55.649	46.049	0.00	0.00
ATOM	20652	N	LYS	1380	85.202	54.283	47.142	0.00	0.00
ATOM	20653	H	LYS	1380	86.159	54.005	47.306	0.00	0.00
ATOM	20654	CA	LYS	1380	84.193	53.626	47.856	0.00	0.00
ATOM	20655	HA	LYS	1380	83.404	53.266	47.197	0.00	0.00
ATOM	20656	CB	LYS	1380	84.771	52.350	48.554	0.00	0.00
ATOM	20657	HB2	LYS	1380	85.429	52.751	49.324	0.00	0.00
ATOM	20658	HB3	LYS	1380	83.936	51.910	49.099	0.00	0.00
ATOM	20659	CG	LYS	1380	85.557	51.255	47.742	0.00	0.00
ATOM	20660	HG2	LYS	1380	84.874	50.685	47.112	0.00	0.00
ATOM	20661	HG3	LYS	1380	86.306	51.658	47.060	0.00	0.00
ATOM	20662	CD	LYS	1380	86.186	50.434	48.843	0.00	0.00
ATOM	20663	HD2	LYS	1380	86.708	51.038	49.585	0.00	0.00
ATOM	20664	HD3	LYS	1380	85.420	49.935	49.437	0.00	0.00
ATOM	20665	CE	LYS	1380	87.114	49.278	48.288	0.00	0.00

ATOM	20666	HE2	LYS	1380	88.020	49.612	47.782	0.00	0.00
ATOM	20667	HE3	LYS	1380	87.353	48.592	49.100	0.00	0.00
ATOM	20668	NZ	LYS	1380	86.303	48.437	47.396	0.00	0.00
ATOM	20669	HZ1	LYS	1380	86.832	47.589	47.251	0.00	0.00
ATOM	20670	HZ2	LYS	1380	85.501	48.096	47.906	0.00	0.00
ATOM	20671	HZ3	LYS	1380	85.946	48.949	46.602	0.00	0.00
ATOM	20672	C	LYS	1380	83.417	54.496	48.912	0.00	0.00
ATOM	20673	O	LYS	1380	82.224	54.211	49.202	0.00	0.00
ATOM	20674	N	TYR	1381	83.991	55.615	49.347	0.00	0.00
ATOM	20675	H	TYR	1381	84.949	55.783	49.077	0.00	0.00
ATOM	20676	CA	TYR	1381	83.247	56.669	50.117	0.00	0.00
ATOM	20677	HA	TYR	1381	82.250	56.228	50.102	0.00	0.00
ATOM	20678	CB	TYR	1381	83.806	56.885	51.493	0.00	0.00
ATOM	20679	HB2	TYR	1381	83.077	57.488	52.036	0.00	0.00
ATOM	20680	HB3	TYR	1381	84.044	55.892	51.875	0.00	0.00
ATOM	20681	CG	TYR	1381	85.135	57.676	51.568	0.00	0.00
ATOM	20682	CD1	TYR	1381	85.098	59.033	51.785	0.00	0.00
ATOM	20683	HD1	TYR	1381	84.107	59.424	51.965	0.00	0.00
ATOM	20684	CE1	TYR	1381	86.260	59.776	52.027	0.00	0.00
ATOM	20685	HE1	TYR	1381	86.165	60.838	52.195	0.00	0.00
ATOM	20686	CZ	TYR	1381	87.499	59.106	52.030	0.00	0.00
ATOM	20687	OH	TYR	1381	88.694	59.757	52.150	0.00	0.00
ATOM	20688	HH	TYR	1381	88.731	60.679	51.886	0.00	0.00
ATOM	20689	CE2	TYR	1381	87.502	57.729	51.863	0.00	0.00
ATOM	20690	HE2	TYR	1381	88.461	57.257	52.021	0.00	0.00
ATOM	20691	CD2	TYR	1381	86.354	56.970	51.644	0.00	0.00

ATOM	20692	HD2	TYR	1381	86.389	55.891	51.598	0.00	0.00
ATOM	20693	C	TYR	1381	83.126	58.041	49.400	0.00	0.00
ATOM	20694	O	TYR	1381	82.431	58.893	49.957	0.00	0.00
ATOM	20695	N	THR	1382	83.734	58.150	48.266	0.00	0.00
ATOM	20696	H	THR	1382	84.291	57.429	47.830	0.00	0.00
ATOM	20697	CA	THR	1382	83.497	59.408	47.560	0.00	0.00
ATOM	20698	HA	THR	1382	82.988	60.162	48.160	0.00	0.00
ATOM	20699	CB	THR	1382	84.798	60.249	47.426	0.00	0.00
ATOM	20700	HB	THR	1382	84.479	61.218	47.041	0.00	0.00
ATOM	20701	CG2	THR	1382	85.587	60.512	48.691	0.00	0.00
ATOM	20702	1HG2	THR	1382	84.940	61.092	49.350	0.00	0.00
ATOM	20703	2HG2	THR	1382	85.668	59.518	49.130	0.00	0.00
ATOM	20704	3HG2	THR	1382	86.545	60.997	48.504	0.00	0.00
ATOM	20705	OG1	THR	1382	85.737	59.655	46.534	0.00	0.00
ATOM	20706	HG1	THR	1382	86.064	60.336	45.943	0.00	0.00
ATOM	20707	C	THR	1382	82.587	59.273	46.289	0.00	0.00
ATOM	20708	O	THR	1382	81.339	59.324	46.305	0.00	0.00
ATOM	20709	N	ILE	1383	83.200	58.866	45.128	0.00	0.00
ATOM	20710	H	ILE	1383	84.194	58.686	45.134	0.00	0.00
ATOM	20711	CA	ILE	1383	82.588	58.820	43.801	0.00	0.00
ATOM	20712	HA	ILE	1383	81.844	59.617	43.812	0.00	0.00
ATOM	20713	CB	ILE	1383	83.637	59.174	42.694	0.00	0.00
ATOM	20714	HB	ILE	1383	84.207	59.974	43.167	0.00	0.00
ATOM	20715	CG2	ILE	1383	84.545	57.972	42.340	0.00	0.00
ATOM	20716	1HG2	ILE	1383	85.023	57.518	43.208	0.00	0.00
ATOM	20717	2HG2	ILE	1383	83.987	57.206	41.802	0.00	0.00



ATOM	20718	3HG2	ILE	1383	85.294	58.306	41.621	0.00	0.00
ATOM	20719	CG1	ILE	1383	83.068	59.847	41.417	0.00	0.00
ATOM	20720	2HG1	ILE	1383	83.778	60.175	40.657	0.00	0.00
ATOM	20721	3HG1	ILE	1383	82.337	59.216	40.913	0.00	0.00
ATOM	20722	CD1	ILE	1383	82.352	61.173	41.713	0.00	0.00
ATOM	20723	1HD1	ILE	1383	82.252	61.761	40.801	0.00	0.00
ATOM	20724	2HD1	ILE	1383	81.380	60.946	42.151	0.00	0.00
ATOM	20725	3HD1	ILE	1383	82.946	61.766	42.408	0.00	0.00
ATOM	20726	C	ILE	1383	81.719	57.610	43.426	0.00	0.00
ATOM	20727	O	ILE	1383	80.683	57.759	42.752	0.00	0.00
ATOM	20728	N	ASN	1384	81.985	56.431	43.937	0.00	0.00
ATOM	20729	H	ASN	1384	82.809	56.275	44.500	0.00	0.00
ATOM	20730	CA	ASN	1384	81.111	55.264	43.726	0.00	0.00
ATOM	20731	HA	ASN	1384	80.729	55.261	42.705	0.00	0.00
ATOM	20732	CB	ASN	1384	81.819	53.947	43.924	0.00	0.00
ATOM	20733	HB2	ASN	1384	82.307	53.970	44.898	0.00	0.00
ATOM	20734	HB3	ASN	1384	81.057	53.167	43.921	0.00	0.00
ATOM	20735	CG	ASN	1384	82.743	53.644	42.793	0.00	0.00
ATOM	20736	OD1	ASN	1384	82.483	54.041	41.694	0.00	0.00
ATOM	20737	ND2	ASN	1384	83.836	52.863	42.893	0.00	0.00
ATOM	20738	1HD2	ASN	1384	84.475	52.789	42.115	0.00	0.00
ATOM	20739	2HD2	ASN	1384	83.996	52.282	43.704	0.00	0.00
ATOM	20740	C	ASN	1384	79.745	55.359	44.510	0.00	0.00
ATOM	20741	O	ASN	1384	78.676	54.942	43.950	0.00	0.00
ATOM	20742	N	PRO	1385	79.692	55.810	45.805	0.00	0.00
ATOM	20743	CD	PRO	1385	80.745	56.192	46.769	0.00	0.00

ATOM	20744	HD2 PRO	1385	81.501	56.820	46.296	0.00	0.00
ATOM	20745	HD3 PRO	1385	81.201	55.251	47.078	0.00	0.00
ATOM	20746	CG PRO	1385	80.048	56.887	48.044	0.00	0.00
ATOM	20747	HG2 PRO	1385	80.415	56.482	48.987	0.00	0.00
ATOM	20748	HG3 PRO	1385	80.082	57.976	48.078	0.00	0.00
ATOM	20749	CB PRO	1385	78.552	56.427	47.883	0.00	0.00
ATOM	20750	HB2 PRO	1385	78.563	55.423	48.307	0.00	0.00
ATOM	20751	HB3 PRO	1385	77.784	57.037	48.357	0.00	0.00
ATOM	20752	CA PRO	1385	78.322	56.122	46.401	0.00	0.00
ATOM	20753	HA PRO	1385	77.685	55.237	46.395	0.00	0.00
ATOM	20754	C PRO	1385	77.541	57.274	45.716	0.00	0.00
ATOM	20755	O PRO	1385	76.307	57.242	45.569	0.00	0.00
ATOM	20756	N ALA	1386	78.307	58.141	45.025	0.00	0.00
ATOM	20757	H ALA	1386	79.282	58.142	45.287	0.00	0.00
ATOM	20758	CA ALA	1386	77.740	59.199	44.234	0.00	0.00
ATOM	20759	HA ALA	1386	76.882	59.691	44.691	0.00	0.00
ATOM	20760	CB ALA	1386	78.760	60.343	44.190	0.00	0.00
ATOM	20761	HB1 ALA	1386	79.524	60.098	43.452	0.00	0.00
ATOM	20762	HB2 ALA	1386	78.233	61.279	44.005	0.00	0.00
ATOM	20763	HB3 ALA	1386	79.235	60.343	45.172	0.00	0.00
ATOM	20764	C ALA	1386	77.155	58.604	42.899	0.00	0.00
ATOM	20765	O ALA	1386	76.105	59.027	42.386	0.00	0.00
ATOM	20766	N LEU	1387	77.822	57.531	42.336	0.00	0.00
ATOM	20767	H LEU	1387	78.716	57.353	42.771	0.00	0.00
ATOM	20768	CA LEU	1387	77.514	56.874	41.027	0.00	0.00
ATOM	20769	HA LEU	1387	77.127	57.719	40.457	0.00	0.00

ATOM	20770	CB	LEU	1387	78.778	56.347	40.297	0.00	0.00
ATOM	20771	HB2	LEU	1387	79.442	57.185	40.083	0.00	0.00
ATOM	20772	HB3	LEU	1387	79.378	55.772	41.002	0.00	0.00
ATOM	20773	CG	LEU	1387	78.629	55.609	38.994	0.00	0.00
ATOM	20774	HG	LEU	1387	78.132	54.675	39.254	0.00	0.00
ATOM	20775	CD1	LEU	1387	77.886	56.391	37.959	0.00	0.00
ATOM	20776	1HD1	LEU	1387	78.323	57.385	37.873	0.00	0.00
ATOM	20777	2HD1	LEU	1387	78.075	55.750	37.098	0.00	0.00
ATOM	20778	3HD1	LEU	1387	76.819	56.423	38.179	0.00	0.00
ATOM	20779	CD2	LEU	1387	79.968	55.234	38.351	0.00	0.00
ATOM	20780	1HD2	LEU	1387	79.723	54.398	37.695	0.00	0.00
ATOM	20781	2HD2	LEU	1387	80.360	56.027	37.714	0.00	0.00
ATOM	20782	3HD2	LEU	1387	80.651	55.005	39.169	0.00	0.00
ATOM	20783	C	LEU	1387	76.306	55.933	41.233	0.00	0.00
ATOM	20784	O	LEU	1387	75.581	55.683	40.276	0.00	0.00
ATOM	20785	N	THR	1388	76.163	55.218	42.367	0.00	0.00
ATOM	20786	H	THR	1388	76.955	55.410	42.963	0.00	0.00
ATOM	20787	CA	THR	1388	75.043	54.257	42.720	0.00	0.00
ATOM	20788	HA	THR	1388	74.806	53.593	41.888	0.00	0.00
ATOM	20789	CB	THR	1388	75.278	53.605	44.156	0.00	0.00
ATOM	20790	HB	THR	1388	74.371	53.250	44.646	0.00	0.00
ATOM	20791	CG2	THR	1388	76.220	52.451	44.050	0.00	0.00
ATOM	20792	1HG2	THR	1388	76.061	51.824	44.928	0.00	0.00
ATOM	20793	2HG2	THR	1388	75.915	51.901	43.160	0.00	0.00
ATOM	20794	3HG2	THR	1388	77.292	52.611	43.939	0.00	0.00
ATOM	20795	OG1	THR	1388	75.910	54.482	45.045	0.00	0.00

ATOM	20796	HG1	THR	1388	76.844	54.458	44.823	0.00	0.00
ATOM	20797	C	THR	1388	73.792	55.178	42.836	0.00	0.00
ATOM	20798	O	THR	1388	72.791	54.728	42.458	0.00	0.00
ATOM	20799	N	HID	1389	73.806	56.456	43.337	0.00	0.00
ATOM	20800	H	HID	1389	74.665	56.698	43.810	0.00	0.00
ATOM	20801	CA	HID	1389	72.543	57.205	43.659	0.00	0.00
ATOM	20802	HA	HID	1389	71.746	56.470	43.548	0.00	0.00
ATOM	20803	CB	HID	1389	72.729	57.614	45.114	0.00	0.00
ATOM	20804	HB2	HID	1389	73.724	58.045	45.226	0.00	0.00
ATOM	20805	HB3	HID	1389	72.017	58.394	45.382	0.00	0.00
ATOM	20806	CG	HID	1389	72.699	56.512	46.125	0.00	0.00
ATOM	20807	ND1	HID	1389	73.692	55.681	46.518	0.00	0.00
ATOM	20808	HD1	HID	1389	74.623	55.611	46.133	0.00	0.00
ATOM	20809	CE1	HID	1389	73.108	54.704	47.276	0.00	0.00
ATOM	20810	HE1	HID	1389	73.620	53.775	47.482	0.00	0.00
ATOM	20811	NE2	HID	1389	71.793	54.857	47.342	0.00	0.00
ATOM	20812	CD2	HID	1389	71.528	56.012	46.609	0.00	0.00
ATOM	20813	HD2	HID	1389	70.512	56.349	46.467	0.00	0.00
ATOM	20814	C	HID	1389	72.242	58.346	42.706	0.00	0.00
ATOM	20815	O	HID	1389	71.413	59.260	42.768	0.00	0.00
ATOM	20816	N	GLY	1390	73.117	58.476	41.709	0.00	0.00
ATOM	20817	H	GLY	1390	73.737	57.713	41.474	0.00	0.00
ATOM	20818	CA	GLY	1390	73.021	59.414	40.632	0.00	0.00
ATOM	20819	HA2	GLY	1390	73.818	59.045	39.987	0.00	0.00
ATOM	20820	HA3	GLY	1390	72.097	59.495	40.061	0.00	0.00
ATOM	20821	C	GLY	1390	73.337	60.824	40.992	0.00	0.00

ATOM	20822	O	GLY	1390	72.652	61.754	40.498	0.00	0.00
ATOM	20823	N	ILE	1391	74.162	61.046	41.984	0.00	0.00
ATOM	20824	H	ILE	1391	74.577	60.270	42.480	0.00	0.00
ATOM	20825	CA	ILE	1391	74.573	62.372	42.447	0.00	0.00
ATOM	20826	HA	ILE	1391	74.034	63.175	41.945	0.00	0.00
ATOM	20827	CB	ILE	1391	74.278	62.634	43.958	0.00	0.00
ATOM	20828	HB	ILE	1391	74.622	63.658	44.106	0.00	0.00
ATOM	20829	CG2	ILE	1391	72.752	62.533	44.227	0.00	0.00
ATOM	20830	1HG2	ILE	1391	72.346	61.565	43.934	0.00	0.00
ATOM	20831	2HG2	ILE	1391	72.672	62.694	45.302	0.00	0.00
ATOM	20832	3HG2	ILE	1391	72.252	63.336	43.686	0.00	0.00
ATOM	20833	CG1	ILE	1391	75.080	61.725	44.905	0.00	0.00
ATOM	20834	2HG1	ILE	1391	74.835	60.670	44.776	0.00	0.00
ATOM	20835	3HG1	ILE	1391	76.098	61.879	44.547	0.00	0.00
ATOM	20836	CD1	ILE	1391	74.987	61.982	46.417	0.00	0.00
ATOM	20837	1HD1	ILE	1391	75.728	61.337	46.889	0.00	0.00
ATOM	20838	2HD1	ILE	1391	75.145	63.041	46.622	0.00	0.00
ATOM	20839	3HD1	ILE	1391	74.003	61.677	46.775	0.00	0.00
ATOM	20840	C	ILE	1391	76.114	62.713	42.246	0.00	0.00
ATOM	20841	O	ILE	1391	76.700	63.727	42.617	0.00	0.00
ATOM	20842	N	ALA	1392	76.684	61.906	41.382	0.00	0.00
ATOM	20843	H	ALA	1392	76.210	61.046	41.146	0.00	0.00
ATOM	20844	CA	ALA	1392	78.120	61.990	40.897	0.00	0.00
ATOM	20845	HA	ALA	1392	78.755	62.052	41.781	0.00	0.00
ATOM	20846	CB	ALA	1392	78.510	60.740	40.109	0.00	0.00
ATOM	20847	HB1	ALA	1392	78.255	59.805	40.609	0.00	0.00

ATOM	20848	HB2	ALA	1392	78.159	60.737	39.078	0.00	0.00
ATOM	20849	HB3	ALA	1392	79.590	60.591	40.095	0.00	0.00
ATOM	20850	C	ALA	1392	78.363	63.298	40.007	0.00	0.00
ATOM	20851	O	ALA	1392	79.501	63.608	39.642	0.00	0.00
ATOM	20852	N	HIE	1393	77.285	63.915	39.443	0.00	0.00
ATOM	20853	H	HIE	1393	76.349	63.594	39.642	0.00	0.00
ATOM	20854	CA	HIE	1393	77.411	65.262	38.876	0.00	0.00
ATOM	20855	HA	HIE	1393	78.324	65.375	38.292	0.00	0.00
ATOM	20856	CB	HIE	1393	76.189	65.518	38.136	0.00	0.00
ATOM	20857	HB2	HIE	1393	76.253	66.487	37.641	0.00	0.00
ATOM	20858	HB3	HIE	1393	76.077	64.702	37.422	0.00	0.00
ATOM	20859	CG	HIE	1393	74.821	65.482	38.806	0.00	0.00
ATOM	20860	ND1	HIE	1393	74.542	64.884	40.057	0.00	0.00
ATOM	20861	CE1	HIE	1393	73.179	64.971	40.173	0.00	0.00
ATOM	20862	HE1	HIE	1393	72.610	64.509	40.966	0.00	0.00
ATOM	20863	NE2	HIE	1393	72.630	65.759	39.217	0.00	0.00
ATOM	20864	HE2	HIE	1393	71.693	66.129	39.137	0.00	0.00
ATOM	20865	CD2	HIE	1393	73.661	66.097	38.345	0.00	0.00
ATOM	20866	HD2	HIE	1393	73.550	66.798	37.531	0.00	0.00
ATOM	20867	C	HIE	1393	77.582	66.314	39.936	0.00	0.00
ATOM	20868	O	HIE	1393	78.156	67.402	39.591	0.00	0.00
ATOM	20869	N	GLU	1394	77.116	66.260	41.239	0.00	0.00
ATOM	20870	H	GLU	1394	76.670	65.415	41.565	0.00	0.00
ATOM	20871	CA	GLU	1394	77.098	67.465	42.113	0.00	0.00
ATOM	20872	HA	GLU	1394	77.376	68.396	41.619	0.00	0.00
ATOM	20873	CB	GLU	1394	75.600	67.694	42.509	0.00	0.00

ATOM	20874	HB2	GLU	1394	74.916	67.692	41.660	0.00	0.00
ATOM	20875	HB3	GLU	1394	75.222	66.823	43.044	0.00	0.00
ATOM	20876	CG	GLU	1394	75.362	68.967	43.285	0.00	0.00
ATOM	20877	HG2	GLU	1394	74.417	68.828	43.809	0.00	0.00
ATOM	20878	HG3	GLU	1394	76.164	69.240	43.971	0.00	0.00
ATOM	20879	CD	GLU	1394	75.229	70.287	42.386	0.00	0.00
ATOM	20880	OE1	GLU	1394	76.114	70.455	41.510	0.00	0.00
ATOM	20881	OE2	GLU	1394	74.240	71.010	42.457	0.00	0.00
ATOM	20882	C	GLU	1394	78.134	67.337	43.237	0.00	0.00
ATOM	20883	O	GLU	1394	78.574	68.339	43.750	0.00	0.00
ATOM	20884	N	VAL	1395	78.415	66.150	43.612	0.00	0.00
ATOM	20885	H	VAL	1395	77.973	65.402	43.097	0.00	0.00
ATOM	20886	CA	VAL	1395	79.276	65.858	44.816	0.00	0.00
ATOM	20887	HA	VAL	1395	79.905	66.744	44.894	0.00	0.00
ATOM	20888	CB	VAL	1395	78.327	65.652	46.062	0.00	0.00
ATOM	20889	HB	VAL	1395	78.919	65.585	46.974	0.00	0.00
ATOM	20890	CG1	VAL	1395	77.480	66.953	46.360	0.00	0.00
ATOM	20891	1HG1	VAL	1395	76.701	67.164	45.627	0.00	0.00
ATOM	20892	2HG1	VAL	1395	76.982	66.839	47.322	0.00	0.00
ATOM	20893	3HG1	VAL	1395	78.103	67.847	46.361	0.00	0.00
ATOM	20894	CG2	VAL	1395	77.329	64.517	46.000	0.00	0.00
ATOM	20895	1HG2	VAL	1395	76.824	64.481	46.965	0.00	0.00
ATOM	20896	2HG2	VAL	1395	76.667	64.786	45.177	0.00	0.00
ATOM	20897	3HG2	VAL	1395	77.796	63.563	45.754	0.00	0.00
ATOM	20898	C	VAL	1395	80.166	64.617	44.591	0.00	0.00
ATOM	20899	O	VAL	1395	80.171	63.974	43.528	0.00	0.00

ATOM	20900	N	GLY	1396	80.994	64.188	45.600	0.00	0.00
ATOM	20901	H	GLY	1396	80.883	64.665	46.483	0.00	0.00
ATOM	20902	CA	GLY	1396	81.711	62.890	45.546	0.00	0.00
ATOM	20903	HA2	GLY	1396	81.658	62.590	46.593	0.00	0.00
ATOM	20904	HA3	GLY	1396	81.127	62.113	45.054	0.00	0.00
ATOM	20905	C	GLY	1396	83.094	62.864	44.845	0.00	0.00
ATOM	20906	O	GLY	1396	83.846	61.923	44.994	0.00	0.00
ATOM	20907	N	SER	1397	83.519	63.932	44.130	0.00	0.00
ATOM	20908	H	SER	1397	82.969	64.777	44.182	0.00	0.00
ATOM	20909	CA	SER	1397	84.948	64.112	43.624	0.00	0.00
ATOM	20910	HA	SER	1397	85.635	63.680	44.352	0.00	0.00
ATOM	20911	CB	SER	1397	85.212	63.458	42.293	0.00	0.00
ATOM	20912	HB2	SER	1397	86.140	63.844	41.872	0.00	0.00
ATOM	20913	HB3	SER	1397	85.195	62.387	42.495	0.00	0.00
ATOM	20914	OG	SER	1397	84.212	63.882	41.373	0.00	0.00
ATOM	20915	HG	SER	1397	84.554	63.714	40.492	0.00	0.00
ATOM	20916	C	SER	1397	85.326	65.623	43.475	0.00	0.00
ATOM	20917	O	SER	1397	84.419	66.495	43.477	0.00	0.00
ATOM	20918	N	ILE	1398	86.594	65.960	43.414	0.00	0.00
ATOM	20919	H	ILE	1398	87.152	65.121	43.476	0.00	0.00
ATOM	20920	CA	ILE	1398	87.218	67.321	43.359	0.00	0.00
ATOM	20921	HA	ILE	1398	86.465	67.983	43.786	0.00	0.00
ATOM	20922	CB	ILE	1398	88.597	67.452	44.076	0.00	0.00
ATOM	20923	HB	ILE	1398	89.393	67.029	43.463	0.00	0.00
ATOM	20924	CG2	ILE	1398	88.837	68.958	44.241	0.00	0.00
ATOM	20925	1HG2	ILE	1398	88.169	69.304	45.030	0.00	0.00



ATOM	20926	2HG2	ILE	1398	89.864	69.151	44.549	0.00	0.00
ATOM	20927	3HG2	ILE	1398	88.673	69.392	43.255	0.00	0.00
ATOM	20928	CG1	ILE	1398	88.473	66.767	45.475	0.00	0.00
ATOM	20929	2HG1	ILE	1398	87.663	67.200	46.064	0.00	0.00
ATOM	20930	3HG1	ILE	1398	88.357	65.684	45.446	0.00	0.00
ATOM	20931	CD1	ILE	1398	89.786	67.061	46.281	0.00	0.00
ATOM	20932	1HD1	ILE	1398	89.943	66.442	47.164	0.00	0.00
ATOM	20933	2HD1	ILE	1398	90.682	66.926	45.674	0.00	0.00
ATOM	20934	3HD1	ILE	1398	89.707	68.061	46.708	0.00	0.00
ATOM	20935	C	ILE	1398	87.263	67.768	41.899	0.00	0.00
ATOM	20936	O	ILE	1398	88.331	67.780	41.272	0.00	0.00
ATOM	20937	N	GLU	1399	86.091	67.941	41.267	0.00	0.00
ATOM	20938	H	GLU	1399	85.265	68.004	41.845	0.00	0.00
ATOM	20939	CA	GLU	1399	85.877	68.126	39.831	0.00	0.00
ATOM	20940	HA	GLU	1399	86.843	68.323	39.367	0.00	0.00
ATOM	20941	CB	GLU	1399	85.361	66.866	39.174	0.00	0.00
ATOM	20942	HB2	GLU	1399	84.370	66.649	39.571	0.00	0.00
ATOM	20943	HB3	GLU	1399	85.149	67.214	38.163	0.00	0.00
ATOM	20944	CG	GLU	1399	86.394	65.705	39.266	0.00	0.00
ATOM	20945	HG2	GLU	1399	87.353	66.112	38.945	0.00	0.00
ATOM	20946	HG3	GLU	1399	86.546	65.502	40.326	0.00	0.00
ATOM	20947	CD	GLU	1399	86.085	64.390	38.516	0.00	0.00
ATOM	20948	OE1	GLU	1399	86.349	64.505	37.322	0.00	0.00
ATOM	20949	OE2	GLU	1399	85.539	63.374	39.079	0.00	0.00
ATOM	20950	C	GLU	1399	85.050	69.442	39.623	0.00	0.00
ATOM	20951	O	GLU	1399	84.246	69.912	40.440	0.00	0.00

ATOM	20952	N	VAL	1400	85.147	69.996	38.392	0.00	0.00
ATOM	20953	H	VAL	1400	85.697	69.588	37.650	0.00	0.00
ATOM	20954	CA	VAL	1400	84.519	71.292	38.053	0.00	0.00
ATOM	20955	HA	VAL	1400	84.840	71.996	38.820	0.00	0.00
ATOM	20956	CB	VAL	1400	85.210	71.871	36.841	0.00	0.00
ATOM	20957	HB	VAL	1400	84.725	72.821	36.616	0.00	0.00
ATOM	20958	CG1	VAL	1400	86.729	72.272	36.897	0.00	0.00
ATOM	20959	1HG1	VAL	1400	87.422	71.466	37.139	0.00	0.00
ATOM	20960	2HG1	VAL	1400	87.052	72.843	36.027	0.00	0.00
ATOM	20961	3HG1	VAL	1400	86.888	73.025	37.668	0.00	0.00
ATOM	20962	CG2	VAL	1400	85.063	70.868	35.606	0.00	0.00
ATOM	20963	1HG2	VAL	1400	85.691	69.986	35.735	0.00	0.00
ATOM	20964	2HG2	VAL	1400	84.043	70.485	35.606	0.00	0.00
ATOM	20965	3HG2	VAL	1400	85.412	71.389	34.715	0.00	0.00
ATOM	20966	C	VAL	1400	82.970	71.364	38.032	0.00	0.00
ATOM	20967	O	VAL	1400	82.299	70.424	37.661	0.00	0.00
ATOM	20968	N	GLY	1401	82.487	72.434	38.647	0.00	0.00
ATOM	20969	H	GLY	1401	83.100	73.114	39.073	0.00	0.00
ATOM	20970	CA	GLY	1401	81.054	72.794	38.702	0.00	0.00
ATOM	20971	HA2	GLY	1401	80.920	73.871	38.801	0.00	0.00
ATOM	20972	HA3	GLY	1401	80.478	72.420	37.856	0.00	0.00
ATOM	20973	C	GLY	1401	80.318	72.056	39.862	0.00	0.00
ATOM	20974	O	GLY	1401	79.098	72.377	40.095	0.00	0.00
ATOM	20975	N	LYS	1402	80.993	71.223	40.581	0.00	0.00
ATOM	20976	H	LYS	1402	81.955	71.121	40.292	0.00	0.00
ATOM	20977	CA	LYS	1402	80.470	70.521	41.818	0.00	0.00

ATOM 20978	HA	LYS	1402	79.440	70.200	41.661	0.00	0.00
ATOM 20979	CB	LYS	1402	81.350	69.357	42.254	0.00	0.00
ATOM 20980	HB2	LYS	1402	82.347	69.740	42.471	0.00	0.00
ATOM 20981	HB3	LYS	1402	80.924	68.882	43.138	0.00	0.00
ATOM 20982	CG	LYS	1402	81.403	68.301	41.109	0.00	0.00
ATOM 20983	HG2	LYS	1402	80.369	68.181	40.787	0.00	0.00
ATOM 20984	HG3	LYS	1402	81.933	68.797	40.295	0.00	0.00
ATOM 20985	CD	LYS	1402	82.009	66.950	41.423	0.00	0.00
ATOM 20986	HD2	LYS	1402	83.062	66.993	41.147	0.00	0.00
ATOM 20987	HD3	LYS	1402	82.005	66.825	42.506	0.00	0.00
ATOM 20988	CE	LYS	1402	81.318	65.909	40.504	0.00	0.00
ATOM 20989	HE2	LYS	1402	80.251	66.128	40.466	0.00	0.00
ATOM 20990	HE3	LYS	1402	81.661	66.118	39.491	0.00	0.00
ATOM 20991	NZ	LYS	1402	81.639	64.584	40.936	0.00	0.00
ATOM 20992	HZ1	LYS	1402	81.293	64.376	41.862	0.00	0.00
ATOM 20993	HZ2	LYS	1402	81.082	64.009	40.320	0.00	0.00
ATOM 20994	HZ3	LYS	1402	82.616	64.413	40.747	0.00	0.00
ATOM 20995	C	LYS	1402	80.389	71.547	42.982	0.00	0.00
ATOM 20996	O	LYS	1402	81.174	72.447	43.075	0.00	0.00
ATOM 20997	N	LEU	1403	79.458	71.267	43.904	0.00	0.00
ATOM 20998	H	LEU	1403	78.883	70.439	43.846	0.00	0.00
ATOM 20999	CA	LEU	1403	79.394	72.015	45.181	0.00	0.00
ATOM 21000	HA	LEU	1403	79.242	73.062	44.918	0.00	0.00
ATOM 21001	CB	LEU	1403	78.185	71.439	45.992	0.00	0.00
ATOM 21002	HB2	LEU	1403	77.323	71.580	45.340	0.00	0.00
ATOM 21003	HB3	LEU	1403	78.321	70.364	46.114	0.00	0.00

ATOM 21004	CG	LEU	1403	77.836	72.038	47.279	0.00	0.00
ATOM 21005	HG	LEU	1403	78.759	72.074	47.858	0.00	0.00
ATOM 21006	CD1	LEU	1403	77.118	73.433	47.252	0.00	0.00
ATOM 21007	1HD1	LEU	1403	76.250	73.453	46.594	0.00	0.00
ATOM 21008	2HD1	LEU	1403	76.840	73.787	48.245	0.00	0.00
ATOM 21009	3HD1	LEU	1403	77.778	74.241	46.937	0.00	0.00
ATOM 21010	CD2	LEU	1403	76.939	71.195	48.083	0.00	0.00
ATOM 21011	1HD2	LEU	1403	76.045	70.868	47.553	0.00	0.00
ATOM 21012	2HD2	LEU	1403	77.489	70.270	48.255	0.00	0.00
ATOM 21013	3HD2	LEU	1403	76.658	71.745	48.981	0.00	0.00
ATOM 21014	C	LEU	1403	80.732	71.817	45.885	0.00	0.00
ATOM 21015	O	LEU	1403	81.210	70.675	45.947	0.00	0.00
ATOM 21016	N	ALA	1404	81.347	72.860	46.417	0.00	0.00
ATOM 21017	H	ALA	1404	80.868	73.746	46.338	0.00	0.00
ATOM 21018	CA	ALA	1404	82.659	72.771	47.055	0.00	0.00
ATOM 21019	HA	ALA	1404	83.300	72.130	46.449	0.00	0.00
ATOM 21020	CB	ALA	1404	83.199	74.141	47.058	0.00	0.00
ATOM 21021	HB1	ALA	1404	83.314	74.535	46.048	0.00	0.00
ATOM 21022	HB2	ALA	1404	82.470	74.766	47.572	0.00	0.00
ATOM 21023	HB3	ALA	1404	84.157	74.198	47.574	0.00	0.00
ATOM 21024	C	ALA	1404	82.552	72.091	48.452	0.00	0.00
ATOM 21025	O	ALA	1404	82.849	72.635	49.524	0.00	0.00
ATOM 21026	N	ASP	1405	82.162	70.799	48.547	0.00	0.00
ATOM 21027	H	ASP	1405	81.670	70.449	47.737	0.00	0.00
ATOM 21028	CA	ASP	1405	82.386	69.889	49.658	0.00	0.00
ATOM 21029	HA	ASP	1405	82.273	70.438	50.593	0.00	0.00

ATOM 21030	CB	ASP	1405	81.332	68.780	49.725	0.00	0.00
ATOM 21031	HB2	ASP	1405	81.235	68.462	48.687	0.00	0.00
ATOM 21032	HB3	ASP	1405	81.667	67.960	50.360	0.00	0.00
ATOM 21033	CG	ASP	1405	80.006	69.315	50.294	0.00	0.00
ATOM 21034	OD1	ASP	1405	79.714	70.531	50.458	0.00	0.00
ATOM 21035	OD2	ASP	1405	79.114	68.403	50.438	0.00	0.00
ATOM 21036	C	ASP	1405	83.760	69.307	49.701	0.00	0.00
ATOM 21037	O	ASP	1405	83.984	68.181	49.334	0.00	0.00
ATOM 21038	N	LEU	1406	84.655	69.979	50.427	0.00	0.00
ATOM 21039	H	LEU	1406	84.339	70.815	50.896	0.00	0.00
ATOM 21040	CA	LEU	1406	86.082	69.589	50.619	0.00	0.00
ATOM 21041	HA	LEU	1406	86.278	68.674	50.059	0.00	0.00
ATOM 21042	CB	LEU	1406	87.076	70.604	49.998	0.00	0.00
ATOM 21043	HB2	LEU	1406	87.127	71.504	50.611	0.00	0.00
ATOM 21044	HB3	LEU	1406	88.042	70.124	50.151	0.00	0.00
ATOM 21045	CG	LEU	1406	86.838	70.957	48.529	0.00	0.00
ATOM 21046	HG	LEU	1406	85.842	71.399	48.560	0.00	0.00
ATOM 21047	CD1	LEU	1406	87.686	72.061	47.913	0.00	0.00
ATOM 21048	1HD1	LEU	1406	88.679	71.618	47.832	0.00	0.00
ATOM 21049	2HD1	LEU	1406	87.187	72.471	47.035	0.00	0.00
ATOM 21050	3HD1	LEU	1406	87.830	72.883	48.613	0.00	0.00
ATOM 21051	CD2	LEU	1406	86.818	69.811	47.538	0.00	0.00
ATOM 21052	1HD2	LEU	1406	86.086	69.116	47.949	0.00	0.00
ATOM 21053	2HD2	LEU	1406	86.423	70.073	46.556	0.00	0.00
ATOM 21054	3HD2	LEU	1406	87.736	69.229	47.447	0.00	0.00
ATOM 21055	C	LEU	1406	86.483	69.368	52.075	0.00	0.00

ATOM	21056	O	LEU	1406	86.020	70.098	52.979	0.00	0.00
ATOM	21057	N	VAL	1407	87.365	68.375	52.318	0.00	0.00
ATOM	21058	H	VAL	1407	87.777	67.887	51.535	0.00	0.00
ATOM	21059	CA	VAL	1407	87.737	67.937	53.603	0.00	0.00
ATOM	21060	HA	VAL	1407	87.462	68.725	54.304	0.00	0.00
ATOM	21061	CB	VAL	1407	86.966	66.642	53.921	0.00	0.00
ATOM	21062	HB	VAL	1407	87.105	65.945	53.094	0.00	0.00
ATOM	21063	CG1	VAL	1407	87.326	66.002	55.239	0.00	0.00
ATOM	21064	1HG1	VAL	1407	86.746	65.083	55.329	0.00	0.00
ATOM	21065	2HG1	VAL	1407	88.395	65.790	55.267	0.00	0.00
ATOM	21066	3HG1	VAL	1407	87.044	66.598	56.107	0.00	0.00
ATOM	21067	CG2	VAL	1407	85.507	66.997	54.009	0.00	0.00
ATOM	21068	1HG2	VAL	1407	85.206	67.390	53.038	0.00	0.00
ATOM	21069	2HG2	VAL	1407	84.878	66.135	54.232	0.00	0.00
ATOM	21070	3HG2	VAL	1407	85.408	67.854	54.676	0.00	0.00
ATOM	21071	C	VAL	1407	89.276	67.755	53.621	0.00	0.00
ATOM	21072	O	VAL	1407	89.956	67.360	52.706	0.00	0.00
ATOM	21073	N	VAL	1408	89.876	68.194	54.826	0.00	0.00
ATOM	21074	H	VAL	1408	89.317	68.511	55.605	0.00	0.00
ATOM	21075	CA	VAL	1408	91.333	68.419	54.839	0.00	0.00
ATOM	21076	HA	VAL	1408	91.819	68.019	53.949	0.00	0.00
ATOM	21077	CB	VAL	1408	91.641	69.989	54.924	0.00	0.00
ATOM	21078	HB	VAL	1408	91.577	70.258	55.978	0.00	0.00
ATOM	21079	CG1	VAL	1408	92.957	70.357	54.321	0.00	0.00
ATOM	21080	1HG1	VAL	1408	93.072	71.433	54.452	0.00	0.00
ATOM	21081	2HG1	VAL	1408	93.759	69.902	54.901	0.00	0.00

ATOM	21082	3HG1	VAL	1408	93.088	70.070	53.278	0.00	0.00
ATOM	21083	CG2	VAL	1408	90.575	70.870	54.237	0.00	0.00
ATOM	21084	1HG2	VAL	1408	90.555	70.618	53.177	0.00	0.00
ATOM	21085	2HG2	VAL	1408	89.642	70.623	54.744	0.00	0.00
ATOM	21086	3HG2	VAL	1408	90.795	71.915	54.455	0.00	0.00
ATOM	21087	C	VAL	1408	91.915	67.678	56.120	0.00	0.00
ATOM	21088	O	VAL	1408	91.339	67.739	57.197	0.00	0.00
ATOM	21089	N	TRP	1409	93.094	67.045	55.965	0.00	0.00
ATOM	21090	H	TRP	1409	93.520	67.106	55.051	0.00	0.00
ATOM	21091	CA	TRP	1409	93.648	66.092	56.919	0.00	0.00
ATOM	21092	HA	TRP	1409	93.095	66.228	57.849	0.00	0.00
ATOM	21093	CB	TRP	1409	93.475	64.701	56.373	0.00	0.00
ATOM	21094	HB2	TRP	1409	94.281	64.688	55.639	0.00	0.00
ATOM	21095	HB3	TRP	1409	93.685	63.954	57.139	0.00	0.00
ATOM	21096	CG	TRP	1409	92.172	64.342	55.708	0.00	0.00
ATOM	21097	CD1	TRP	1409	91.882	64.480	54.416	0.00	0.00
ATOM	21098	HD1	TRP	1409	92.490	64.788	53.579	0.00	0.00
ATOM	21099	NE1	TRP	1409	90.622	63.953	54.172	0.00	0.00
ATOM	21100	HE1	TRP	1409	90.111	64.060	53.307	0.00	0.00
ATOM	21101	CE2	TRP	1409	90.176	63.231	55.275	0.00	0.00
ATOM	21102	CZ2	TRP	1409	89.055	62.405	55.424	0.00	0.00
ATOM	21103	HZ2	TRP	1409	88.370	62.145	54.631	0.00	0.00
ATOM	21104	CH2	TRP	1409	88.777	61.944	56.698	0.00	0.00
ATOM	21105	HH2	TRP	1409	87.855	61.410	56.873	0.00	0.00
ATOM	21106	CZ3	TRP	1409	89.687	62.205	57.741	0.00	0.00
ATOM	21107	HZ3	TRP	1409	89.385	61.836	58.710	0.00	0.00

ATOM	21108	CE3	TRP	1409	90.754	63.047	57.581	0.00	0.00
ATOM	21109	HE3	TRP	1409	91.279	63.458	58.430	0.00	0.00
ATOM	21110	CD2	TRP	1409	91.050	63.549	56.291	0.00	0.00
ATOM	21111	C	TRP	1409	95.089	66.309	57.220	0.00	0.00
ATOM	21112	O	TRP	1409	95.805	66.436	56.275	0.00	0.00
ATOM	21113	N	SER	1410	95.554	66.241	58.453	0.00	0.00
ATOM	21114	H	SER	1410	94.889	66.085	59.198	0.00	0.00
ATOM	21115	CA	SER	1410	96.946	66.016	58.748	0.00	0.00
ATOM	21116	HA	SER	1410	97.532	66.744	58.188	0.00	0.00
ATOM	21117	CB	SER	1410	97.281	66.278	60.211	0.00	0.00
ATOM	21118	HB2	SER	1410	97.519	67.309	60.472	0.00	0.00
ATOM	21119	HB3	SER	1410	96.400	66.033	60.805	0.00	0.00
ATOM	21120	OG	SER	1410	98.250	65.448	60.706	0.00	0.00
ATOM	21121	HG	SER	1410	98.761	65.758	61.457	0.00	0.00
ATOM	21122	C	SER	1410	97.346	64.642	58.230	0.00	0.00
ATOM	21123	O	SER	1410	96.469	63.774	58.217	0.00	0.00
ATOM	21124	N	PRO	1411	98.567	64.360	57.671	0.00	0.00
ATOM	21125	CD	PRO	1411	99.637	65.347	57.393	0.00	0.00
ATOM	21126	HD2	PRO	1411	100.360	65.478	58.198	0.00	0.00
ATOM	21127	HD3	PRO	1411	99.246	66.358	57.282	0.00	0.00
ATOM	21128	CG	PRO	1411	100.334	64.798	56.191	0.00	0.00
ATOM	21129	HG2	PRO	1411	99.753	65.151	55.339	0.00	0.00
ATOM	21130	HG3	PRO	1411	101.361	65.161	56.218	0.00	0.00
ATOM	21131	CB	PRO	1411	100.136	63.250	56.291	0.00	0.00
ATOM	21132	HB2	PRO	1411	99.829	62.791	55.351	0.00	0.00
ATOM	21133	HB3	PRO	1411	100.979	62.657	56.646	0.00	0.00



ATOM	21134	CA	PRO	1411	99.012	62.968	57.315	0.00	0.00
ATOM	21135	HA	PRO	1411	98.233	62.451	56.754	0.00	0.00
ATOM	21136	C	PRO	1411	99.378	61.984	58.518	0.00	0.00
ATOM	21137	O	PRO	1411	99.222	60.777	58.362	0.00	0.00
ATOM	21138	N	ALA	1412	99.566	62.533	59.678	0.00	0.00
ATOM	21139	H	ALA	1412	99.562	63.541	59.742	0.00	0.00
ATOM	21140	CA	ALA	1412	99.513	61.710	60.862	0.00	0.00
ATOM	21141	HA	ALA	1412	100.115	60.803	60.809	0.00	0.00
ATOM	21142	CB	ALA	1412	100.128	62.528	61.937	0.00	0.00
ATOM	21143	HB1	ALA	1412	101.138	62.802	61.630	0.00	0.00
ATOM	21144	HB2	ALA	1412	99.477	63.372	62.164	0.00	0.00
ATOM	21145	HB3	ALA	1412	100.189	62.025	62.902	0.00	0.00
ATOM	21146	C	ALA	1412	98.046	61.297	61.271	0.00	0.00
ATOM	21147	O	ALA	1412	97.783	60.273	61.969	0.00	0.00
ATOM	21148	N	PHE	1413	97.109	62.170	60.966	0.00	0.00
ATOM	21149	H	PHE	1413	97.403	63.095	60.687	0.00	0.00
ATOM	21150	CA	PHE	1413	95.658	61.997	61.282	0.00	0.00
ATOM	21151	HA	PHE	1413	95.620	61.136	61.950	0.00	0.00
ATOM	21152	CB	PHE	1413	95.137	63.203	62.207	0.00	0.00
ATOM	21153	HB2	PHE	1413	95.030	64.108	61.609	0.00	0.00
ATOM	21154	HB3	PHE	1413	94.152	62.877	62.541	0.00	0.00
ATOM	21155	CG	PHE	1413	95.957	63.311	63.458	0.00	0.00
ATOM	21156	CD1	PHE	1413	95.754	62.357	64.435	0.00	0.00
ATOM	21157	HD1	PHE	1413	94.869	61.746	64.332	0.00	0.00
ATOM	21158	CE1	PHE	1413	96.468	62.384	65.609	0.00	0.00
ATOM	21159	HE1	PHE	1413	96.218	61.727	66.429	0.00	0.00

ATOM	21160	CZ	PHE	1413	97.492	63.284	65.800	0.00	0.00
ATOM	21161	HZ	PHE	1413	97.996	63.286	66.755	0.00	0.00
ATOM	21162	CE2	PHE	1413	97.788	64.197	64.811	0.00	0.00
ATOM	21163	HE2	PHE	1413	98.551	64.952	64.927	0.00	0.00
ATOM	21164	CD2	PHE	1413	97.056	64.205	63.609	0.00	0.00
ATOM	21165	HD2	PHE	1413	97.283	65.058	62.987	0.00	0.00
ATOM	21166	C	PHE	1413	94.901	61.492	60.061	0.00	0.00
ATOM	21167	O	PHE	1413	93.643	61.401	60.202	0.00	0.00
ATOM	21168	N	PHE	1414	95.563	61.023	58.959	0.00	0.00
ATOM	21169	H	PHE	1414	96.546	60.790	58.993	0.00	0.00
ATOM	21170	CA	PHE	1414	94.889	60.665	57.753	0.00	0.00
ATOM	21171	HA	PHE	1414	94.378	61.605	57.544	0.00	0.00
ATOM	21172	CB	PHE	1414	95.833	60.515	56.546	0.00	0.00
ATOM	21173	HB2	PHE	1414	96.238	61.485	56.258	0.00	0.00
ATOM	21174	HB3	PHE	1414	96.651	59.843	56.806	0.00	0.00
ATOM	21175	CG	PHE	1414	95.249	59.787	55.350	0.00	0.00
ATOM	21176	CD1	PHE	1414	94.790	60.522	54.229	0.00	0.00
ATOM	21177	HD1	PHE	1414	94.810	61.600	54.284	0.00	0.00
ATOM	21178	CE1	PHE	1414	94.208	59.854	53.105	0.00	0.00
ATOM	21179	HE1	PHE	1414	93.586	60.394	52.406	0.00	0.00
ATOM	21180	CZ	PHE	1414	94.102	58.479	53.117	0.00	0.00
ATOM	21181	HZ	PHE	1414	93.683	57.880	52.322	0.00	0.00
ATOM	21182	CE2	PHE	1414	94.538	57.729	54.206	0.00	0.00
ATOM	21183	HE2	PHE	1414	94.370	56.664	54.278	0.00	0.00
ATOM	21184	CD2	PHE	1414	95.082	58.390	55.330	0.00	0.00
ATOM	21185	HD2	PHE	1414	95.415	57.772	56.151	0.00	0.00

ATOM	21186	C	PHE	1414	93.746	59.603	57.876	0.00	0.00
ATOM	21187	O	PHE	1414	94.038	58.523	58.245	0.00	0.00
ATOM	21188	N	GLY	1415	92.581	60.094	57.331	0.00	0.00
ATOM	21189	H	GLY	1415	92.632	60.963	56.819	0.00	0.00
ATOM	21190	CA	GLY	1415	91.256	59.358	57.319	0.00	0.00
ATOM	21191	HA2	GLY	1415	90.537	59.971	56.775	0.00	0.00
ATOM	21192	HA3	GLY	1415	91.359	58.372	56.867	0.00	0.00
ATOM	21193	C	GLY	1415	90.559	59.136	58.647	0.00	0.00
ATOM	21194	O	GLY	1415	89.483	58.642	58.633	0.00	0.00
ATOM	21195	N	VAL	1416	91.217	59.547	59.771	0.00	0.00
ATOM	21196	H	VAL	1416	92.205	59.752	59.716	0.00	0.00
ATOM	21197	CA	VAL	1416	90.591	59.284	61.120	0.00	0.00
ATOM	21198	HA	VAL	1416	89.692	58.668	61.079	0.00	0.00
ATOM	21199	CB	VAL	1416	91.549	58.447	61.967	0.00	0.00
ATOM	21200	HB	VAL	1416	91.654	57.448	61.542	0.00	0.00
ATOM	21201	CG1	VAL	1416	92.964	58.981	62.102	0.00	0.00
ATOM	21202	1HG1	VAL	1416	93.135	59.914	62.638	0.00	0.00
ATOM	21203	2HG1	VAL	1416	93.655	58.250	62.524	0.00	0.00
ATOM	21204	3HG1	VAL	1416	93.413	59.041	61.110	0.00	0.00
ATOM	21205	CG2	VAL	1416	90.918	58.221	63.372	0.00	0.00
ATOM	21206	1HG2	VAL	1416	89.997	57.655	63.229	0.00	0.00
ATOM	21207	2HG2	VAL	1416	91.562	57.714	64.090	0.00	0.00
ATOM	21208	3HG2	VAL	1416	90.702	59.180	63.844	0.00	0.00
ATOM	21209	C	VAL	1416	90.119	60.547	61.779	0.00	0.00
ATOM	21210	O	VAL	1416	89.036	60.516	62.377	0.00	0.00
ATOM	21211	N	LYS	1417	90.847	61.697	61.637	0.00	0.00

ATOM	21212	H	LYS	1417	91.687	61.678	61.078	0.00	0.00
ATOM	21213	CA	LYS	1417	90.500	63.024	62.221	0.00	0.00
ATOM	21214	HA	LYS	1417	89.414	63.055	62.302	0.00	0.00
ATOM	21215	CB	LYS	1417	91.021	63.190	63.637	0.00	0.00
ATOM	21216	HB2	LYS	1417	92.084	62.950	63.645	0.00	0.00
ATOM	21217	HB3	LYS	1417	90.896	64.219	63.973	0.00	0.00
ATOM	21218	CG	LYS	1417	90.328	62.349	64.646	0.00	0.00
ATOM	21219	HG2	LYS	1417	89.268	62.521	64.457	0.00	0.00
ATOM	21220	HG3	LYS	1417	90.494	61.293	64.431	0.00	0.00
ATOM	21221	CD	LYS	1417	90.697	62.478	66.156	0.00	0.00
ATOM	21222	HD2	LYS	1417	91.747	62.308	66.396	0.00	0.00
ATOM	21223	HD3	LYS	1417	90.440	63.513	66.384	0.00	0.00
ATOM	21224	CE	LYS	1417	89.938	61.510	67.023	0.00	0.00
ATOM	21225	HE2	LYS	1417	88.859	61.471	66.872	0.00	0.00
ATOM	21226	HE3	LYS	1417	90.192	60.461	66.878	0.00	0.00
ATOM	21227	NZ	LYS	1417	90.231	61.794	68.449	0.00	0.00
ATOM	21228	HZ1	LYS	1417	90.068	62.790	68.496	0.00	0.00
ATOM	21229	HZ2	LYS	1417	89.626	61.384	69.146	0.00	0.00
ATOM	21230	HZ3	LYS	1417	91.168	61.469	68.641	0.00	0.00
ATOM	21231	C	LYS	1417	90.855	64.161	61.243	0.00	0.00
ATOM	21232	O	LYS	1417	91.938	64.759	61.362	0.00	0.00
ATOM	21233	N	PRO	1418	89.937	64.705	60.411	0.00	0.00
ATOM	21234	CD	PRO	1418	88.534	64.337	60.301	0.00	0.00
ATOM	21235	HD2	PRO	1418	88.033	64.365	61.269	0.00	0.00
ATOM	21236	HD3	PRO	1418	88.482	63.383	59.776	0.00	0.00
ATOM	21237	CG	PRO	1418	87.818	65.300	59.372	0.00	0.00

ATOM	21238	HG2 PRO	1418	87.228	64.683	58.695	0.00	0.00
ATOM	21239	HG3 PRO	1418	87.227	66.015	59.945	0.00	0.00
ATOM	21240	CB PRO	1418	88.920	65.978	58.546	0.00	0.00
ATOM	21241	HB2 PRO	1418	89.264	65.357	57.719	0.00	0.00
ATOM	21242	HB3 PRO	1418	88.609	66.976	58.237	0.00	0.00
ATOM	21243	CA PRO	1418	90.133	65.942	59.551	0.00	0.00
ATOM	21244	HA PRO	1418	90.983	65.839	58.877	0.00	0.00
ATOM	21245	C PRO	1418	90.366	67.175	60.343	0.00	0.00
ATOM	21246	O PRO	1418	89.602	67.481	61.258	0.00	0.00
ATOM	21247	N ALA	1419	91.338	68.015	59.965	0.00	0.00
ATOM	21248	H ALA	1419	91.820	67.680	59.143	0.00	0.00
ATOM	21249	CA ALA	1419	91.560	69.320	60.520	0.00	0.00
ATOM	21250	HA ALA	1419	91.657	69.242	61.603	0.00	0.00
ATOM	21251	CB ALA	1419	92.969	69.756	59.979	0.00	0.00
ATOM	21252	HB1 ALA	1419	92.943	69.983	58.913	0.00	0.00
ATOM	21253	HB2 ALA	1419	93.271	70.730	60.364	0.00	0.00
ATOM	21254	HB3 ALA	1419	93.668	68.970	60.264	0.00	0.00
ATOM	21255	C ALA	1419	90.455	70.355	60.173	0.00	0.00
ATOM	21256	O ALA	1419	90.100	71.265	60.924	0.00	0.00
ATOM	21257	N THR	1420	89.934	70.291	58.951	0.00	0.00
ATOM	21258	H THR	1420	90.071	69.428	58.445	0.00	0.00
ATOM	21259	CA THR	1420	89.059	71.333	58.415	0.00	0.00
ATOM	21260	HA THR	1420	88.483	71.841	59.188	0.00	0.00
ATOM	21261	CB THR	1420	89.693	72.394	57.533	0.00	0.00
ATOM	21262	HB THR	1420	90.321	72.060	56.707	0.00	0.00
ATOM	21263	CG2 THR	1420	88.698	73.293	56.772	0.00	0.00

ATOM	21264	1HG2	THR	1420	88.288	72.811	55.884	0.00	0.00
ATOM	21265	2HG2	THR	1420	87.862	73.589	57.406	0.00	0.00
ATOM	21266	3HG2	THR	1420	89.142	74.212	56.389	0.00	0.00
ATOM	21267	OG1	THR	1420	90.538	73.236	58.299	0.00	0.00
ATOM	21268	HG1	THR	1420	90.782	73.937	57.690	0.00	0.00
ATOM	21269	C	THR	1420	87.975	70.581	57.576	0.00	0.00
ATOM	21270	O	THR	1420	88.418	69.753	56.769	0.00	0.00
ATOM	21271	N	VAL	1421	86.681	70.887	57.718	0.00	0.00
ATOM	21272	H	VAL	1421	86.423	71.586	58.399	0.00	0.00
ATOM	21273	CA	VAL	1421	85.553	70.230	56.933	0.00	0.00
ATOM	21274	HA	VAL	1421	86.027	69.660	56.134	0.00	0.00
ATOM	21275	CB	VAL	1421	84.687	69.214	57.784	0.00	0.00
ATOM	21276	HB	VAL	1421	84.082	69.828	58.451	0.00	0.00
ATOM	21277	CG1	VAL	1421	83.700	68.322	57.018	0.00	0.00
ATOM	21278	1HG1	VAL	1421	83.157	68.938	56.302	0.00	0.00
ATOM	21279	2HG1	VAL	1421	84.289	67.567	56.498	0.00	0.00
ATOM	21280	3HG1	VAL	1421	83.045	67.787	57.705	0.00	0.00
ATOM	21281	CG2	VAL	1421	85.553	68.172	58.597	0.00	0.00
ATOM	21282	1HG2	VAL	1421	86.021	68.628	59.469	0.00	0.00
ATOM	21283	2HG2	VAL	1421	84.978	67.303	58.917	0.00	0.00
ATOM	21284	3HG2	VAL	1421	86.353	67.784	57.966	0.00	0.00
ATOM	21285	C	VAL	1421	84.754	71.297	56.334	0.00	0.00
ATOM	21286	O	VAL	1421	84.302	72.203	57.085	0.00	0.00
ATOM	21287	N	ILE	1422	84.457	71.296	54.969	0.00	0.00
ATOM	21288	H	ILE	1422	84.753	70.523	54.390	0.00	0.00
ATOM	21289	CA	ILE	1422	83.669	72.356	54.313	0.00	0.00

ATOM	21290	HA	ILE	1422	83.483	73.053	55.130	0.00	0.00
ATOM	21291	CB	ILE	1422	84.604	72.968	53.238	0.00	0.00
ATOM	21292	HB	ILE	1422	84.926	72.134	52.614	0.00	0.00
ATOM	21293	CG2	ILE	1422	83.909	73.983	52.396	0.00	0.00
ATOM	21294	1HG2	ILE	1422	83.590	74.855	52.968	0.00	0.00
ATOM	21295	2HG2	ILE	1422	84.617	74.254	51.613	0.00	0.00
ATOM	21296	3HG2	ILE	1422	83.074	73.473	51.915	0.00	0.00
ATOM	21297	CG1	ILE	1422	85.738	73.698	53.931	0.00	0.00
ATOM	21298	2HG1	ILE	1422	85.367	74.614	54.391	0.00	0.00
ATOM	21299	3HG1	ILE	1422	86.262	73.120	54.692	0.00	0.00
ATOM	21300	CD1	ILE	1422	86.865	74.055	52.930	0.00	0.00
ATOM	21301	1HD1	ILE	1422	86.869	75.091	52.590	0.00	0.00
ATOM	21302	2HD1	ILE	1422	87.780	73.868	53.493	0.00	0.00
ATOM	21303	3HD1	ILE	1422	86.781	73.445	52.031	0.00	0.00
ATOM	21304	C	ILE	1422	82.333	71.769	53.726	0.00	0.00
ATOM	21305	O	ILE	1422	82.232	70.606	53.222	0.00	0.00
ATOM	21306	N	LYS	1423	81.350	72.648	53.755	0.00	0.00
ATOM	21307	H	LYS	1423	81.536	73.531	54.211	0.00	0.00
ATOM	21308	CA	LYS	1423	80.075	72.562	53.037	0.00	0.00
ATOM	21309	HA	LYS	1423	80.068	71.592	52.540	0.00	0.00
ATOM	21310	CB	LYS	1423	78.888	72.523	54.034	0.00	0.00
ATOM	21311	HB2	LYS	1423	78.884	73.340	54.755	0.00	0.00
ATOM	21312	HB3	LYS	1423	77.952	72.573	53.477	0.00	0.00
ATOM	21313	CG	LYS	1423	78.842	71.182	54.852	0.00	0.00
ATOM	21314	HG2	LYS	1423	77.995	71.112	55.534	0.00	0.00
ATOM	21315	HG3	LYS	1423	79.749	71.149	55.456	0.00	0.00

ATOM	21316	CD	LYS	1423	78.763	69.829	54.064	0.00	0.00
ATOM	21317	HD2	LYS	1423	79.614	69.726	53.390	0.00	0.00
ATOM	21318	HD3	LYS	1423	78.697	68.982	54.746	0.00	0.00
ATOM	21319	CE	LYS	1423	77.508	69.846	53.222	0.00	0.00
ATOM	21320	HE2	LYS	1423	77.288	68.799	53.012	0.00	0.00
ATOM	21321	HE3	LYS	1423	76.727	70.216	53.886	0.00	0.00
ATOM	21322	NZ	LYS	1423	77.451	70.488	51.913	0.00	0.00
ATOM	21323	HZ1	LYS	1423	78.224	70.273	51.300	0.00	0.00
ATOM	21324	HZ2	LYS	1423	76.580	70.326	51.427	0.00	0.00
ATOM	21325	HZ3	LYS	1423	77.600	71.483	52.002	0.00	0.00
ATOM	21326	C	LYS	1423	79.911	73.666	51.981	0.00	0.00
ATOM	21327	O	LYS	1423	79.933	74.837	52.307	0.00	0.00
ATOM	21328	N	GLY	1424	79.794	73.320	50.692	0.00	0.00
ATOM	21329	H	GLY	1424	79.804	72.327	50.507	0.00	0.00
ATOM	21330	CA	GLY	1424	79.387	74.286	49.653	0.00	0.00
ATOM	21331	HA2	GLY	1424	79.538	73.698	48.747	0.00	0.00
ATOM	21332	HA3	GLY	1424	78.325	74.497	49.773	0.00	0.00
ATOM	21333	C	GLY	1424	80.158	75.645	49.530	0.00	0.00
ATOM	21334	O	GLY	1424	79.482	76.654	49.249	0.00	0.00
ATOM	21335	N	GLY	1425	81.426	75.666	49.929	0.00	0.00
ATOM	21336	H	GLY	1425	81.647	74.735	50.251	0.00	0.00
ATOM	21337	CA	GLY	1425	82.351	76.767	50.107	0.00	0.00
ATOM	21338	HA2	GLY	1425	83.327	76.458	49.731	0.00	0.00
ATOM	21339	HA3	GLY	1425	82.094	77.528	49.370	0.00	0.00
ATOM	21340	C	GLY	1425	82.524	77.367	51.626	0.00	0.00
ATOM	21341	O	GLY	1425	83.539	77.997	51.727	0.00	0.00



ATOM	21342	N	MET	1426	81.806	77.042	52.678	0.00	0.00
ATOM	21343	H	MET	1426	81.047	76.382	52.595	0.00	0.00
ATOM	21344	CA	MET	1426	82.287	77.354	54.056	0.00	0.00
ATOM	21345	HA	MET	1426	83.174	77.986	54.031	0.00	0.00
ATOM	21346	CB	MET	1426	81.193	78.156	54.757	0.00	0.00
ATOM	21347	HB2	MET	1426	80.364	77.456	54.862	0.00	0.00
ATOM	21348	HB3	MET	1426	81.618	78.430	55.723	0.00	0.00
ATOM	21349	CG	MET	1426	80.678	79.457	54.190	0.00	0.00
ATOM	21350	HG2	MET	1426	81.480	80.120	53.869	0.00	0.00
ATOM	21351	HG3	MET	1426	80.055	79.161	53.345	0.00	0.00
ATOM	21352	SD	MET	1426	79.558	80.306	55.403	0.00	0.00
ATOM	21353	CE	MET	1426	80.722	81.525	56.101	0.00	0.00
ATOM	21354	HE1	MET	1426	80.303	82.075	56.944	0.00	0.00
ATOM	21355	HE2	MET	1426	81.543	80.987	56.576	0.00	0.00
ATOM	21356	HE3	MET	1426	81.117	82.227	55.366	0.00	0.00
ATOM	21357	C	MET	1426	82.698	76.155	54.969	0.00	0.00
ATOM	21358	O	MET	1426	82.126	75.081	55.030	0.00	0.00
ATOM	21359	N	ILE	1427	83.757	76.436	55.758	0.00	0.00
ATOM	21360	H	ILE	1427	84.160	77.349	55.602	0.00	0.00
ATOM	21361	CA	ILE	1427	84.210	75.644	56.869	0.00	0.00
ATOM	21362	HA	ILE	1427	84.470	74.702	56.385	0.00	0.00
ATOM	21363	CB	ILE	1427	85.420	76.168	57.596	0.00	0.00
ATOM	21364	HB	ILE	1427	85.352	77.144	58.078	0.00	0.00
ATOM	21365	CG2	ILE	1427	85.631	75.243	58.818	0.00	0.00
ATOM	21366	1HG2	ILE	1427	86.625	75.446	59.218	0.00	0.00
ATOM	21367	2HG2	ILE	1427	84.855	75.442	59.557	0.00	0.00

ATOM	21368	3HG2	ILE	1427	85.563	74.209	58.480	0.00	0.00
ATOM	21369	CG1	ILE	1427	86.635	76.412	56.710	0.00	0.00
ATOM	21370	2HG1	ILE	1427	86.905	75.432	56.318	0.00	0.00
ATOM	21371	3HG1	ILE	1427	86.279	77.028	55.885	0.00	0.00
ATOM	21372	CD1	ILE	1427	87.755	77.107	57.340	0.00	0.00
ATOM	21373	1HD1	ILE	1427	88.130	76.541	58.193	0.00	0.00
ATOM	21374	2HD1	ILE	1427	88.662	77.196	56.741	0.00	0.00
ATOM	21375	3HD1	ILE	1427	87.444	78.118	57.601	0.00	0.00
ATOM	21376	C	ILE	1427	83.070	75.483	57.783	0.00	0.00
ATOM	21377	O	ILE	1427	82.375	76.392	58.143	0.00	0.00
ATOM	21378	N	ALA	1428	82.628	74.221	58.033	0.00	0.00
ATOM	21379	H	ALA	1428	83.077	73.491	57.498	0.00	0.00
ATOM	21380	CA	ALA	1428	81.532	73.764	58.863	0.00	0.00
ATOM	21381	HA	ALA	1428	80.989	74.659	59.165	0.00	0.00
ATOM	21382	CB	ALA	1428	80.464	73.029	57.981	0.00	0.00
ATOM	21383	HB1	ALA	1428	80.656	71.959	57.897	0.00	0.00
ATOM	21384	HB2	ALA	1428	79.441	73.090	58.352	0.00	0.00
ATOM	21385	HB3	ALA	1428	80.477	73.489	56.992	0.00	0.00
ATOM	21386	C	ALA	1428	81.882	73.028	60.214	0.00	0.00
ATOM	21387	O	ALA	1428	81.273	73.191	61.231	0.00	0.00
ATOM	21388	N	ILE	1429	82.974	72.242	60.186	0.00	0.00
ATOM	21389	H	ILE	1429	83.536	72.095	59.360	0.00	0.00
ATOM	21390	CA	ILE	1429	83.478	71.762	61.523	0.00	0.00
ATOM	21391	HA	ILE	1429	83.407	72.555	62.267	0.00	0.00
ATOM	21392	CB	ILE	1429	82.509	70.545	62.008	0.00	0.00
ATOM	21393	HB	ILE	1429	81.497	70.946	61.954	0.00	0.00

ATOM	21394	CG2	ILE	1429	82.692	69.249	61.164	0.00	0.00
ATOM	21395	1HG2	ILE	1429	82.082	68.448	61.580	0.00	0.00
ATOM	21396	2HG2	ILE	1429	82.348	69.371	60.137	0.00	0.00
ATOM	21397	3HG2	ILE	1429	83.718	68.890	61.243	0.00	0.00
ATOM	21398	CG1	ILE	1429	82.861	70.198	63.471	0.00	0.00
ATOM	21399	2HG1	ILE	1429	83.641	69.459	63.660	0.00	0.00
ATOM	21400	3HG1	ILE	1429	83.123	71.069	64.072	0.00	0.00
ATOM	21401	CD1	ILE	1429	81.647	69.553	64.202	0.00	0.00
ATOM	21402	1HD1	ILE	1429	82.073	69.179	65.133	0.00	0.00
ATOM	21403	2HD1	ILE	1429	80.975	70.384	64.416	0.00	0.00
ATOM	21404	3HD1	ILE	1429	81.178	68.722	63.675	0.00	0.00
ATOM	21405	C	ILE	1429	84.918	71.337	61.500	0.00	0.00
ATOM	21406	O	ILE	1429	85.407	70.899	60.459	0.00	0.00
ATOM	21407	N	ALA	1430	85.613	71.581	62.617	0.00	0.00
ATOM	21408	H	ALA	1430	85.095	72.087	63.321	0.00	0.00
ATOM	21409	CA	ALA	1430	87.035	71.467	62.836	0.00	0.00
ATOM	21410	HA	ALA	1430	87.295	70.635	62.181	0.00	0.00
ATOM	21411	CB	ALA	1430	87.606	72.865	62.423	0.00	0.00
ATOM	21412	HB1	ALA	1430	86.975	73.562	62.974	0.00	0.00
ATOM	21413	HB2	ALA	1430	88.675	72.955	62.617	0.00	0.00
ATOM	21414	HB3	ALA	1430	87.397	72.963	61.358	0.00	0.00
ATOM	21415	C	ALA	1430	87.220	71.176	64.350	0.00	0.00
ATOM	21416	O	ALA	1430	86.432	71.746	65.141	0.00	0.00
ATOM	21417	N	PRO	1431	88.408	70.734	64.757	0.00	0.00
ATOM	21418	CD	PRO	1431	89.491	70.158	63.942	0.00	0.00
ATOM	21419	HD2	PRO	1431	90.077	70.956	63.486	0.00	0.00

ATOM 21420	HD3 PRO	1431	89.092	69.449	63.217	0.00	0.00
ATOM 21421	CG PRO	1431	90.424	69.422	64.914	0.00	0.00
ATOM 21422	HG2 PRO	1431	90.458	68.385	64.579	0.00	0.00
ATOM 21423	HG3 PRO	1431	91.459	69.763	64.873	0.00	0.00
ATOM 21424	CB PRO	1431	89.788	69.644	66.326	0.00	0.00
ATOM 21425	HB2 PRO	1431	89.188	68.767	66.569	0.00	0.00
ATOM 21426	HB3 PRO	1431	90.517	69.831	67.114	0.00	0.00
ATOM 21427	CA PRO	1431	88.787	70.829	66.070	0.00	0.00
ATOM 21428	HA PRO	1431	87.929	70.685	66.727	0.00	0.00
ATOM 21429	C PRO	1431	89.394	72.223	66.228	0.00	0.00
ATOM 21430	O PRO	1431	90.192	72.738	65.487	0.00	0.00
ATOM 21431	N MET	1432	89.211	72.756	67.425	0.00	0.00
ATOM 21432	H MET	1432	88.575	72.293	68.059	0.00	0.00
ATOM 21433	CA MET	1432	89.528	74.134	67.815	0.00	0.00
ATOM 21434	HA MET	1432	90.376	74.384	67.178	0.00	0.00
ATOM 21435	CB MET	1432	88.333	75.032	67.470	0.00	0.00
ATOM 21436	HB2 MET	1432	88.174	74.866	66.405	0.00	0.00
ATOM 21437	HB3 MET	1432	87.418	74.757	67.995	0.00	0.00
ATOM 21438	CG MET	1432	88.497	76.541	67.603	0.00	0.00
ATOM 21439	HG2 MET	1432	87.480	76.924	67.513	0.00	0.00
ATOM 21440	HG3 MET	1432	89.021	76.770	68.531	0.00	0.00
ATOM 21441	SD MET	1432	89.632	77.097	66.250	0.00	0.00
ATOM 21442	CE MET	1432	89.565	78.887	66.427	0.00	0.00
ATOM 21443	HE1 MET	1432	89.933	79.124	67.426	0.00	0.00
ATOM 21444	HE2 MET	1432	90.136	79.334	65.614	0.00	0.00
ATOM 21445	HE3 MET	1432	88.578	79.335	66.311	0.00	0.00

ATOM	21446	C	MET	1432	89.893	74.308	69.288	0.00	0.00
ATOM	21447	O	MET	1432	89.325	73.698	70.194	0.00	0.00
ATOM	21448	N	GLY	1433	90.678	75.374	69.605	0.00	0.00
ATOM	21449	H	GLY	1433	90.974	76.008	68.876	0.00	0.00
ATOM	21450	CA	GLY	1433	91.144	75.626	70.972	0.00	0.00
ATOM	21451	HA2	GLY	1433	91.295	74.673	71.478	0.00	0.00
ATOM	21452	HA3	GLY	1433	92.041	76.245	70.960	0.00	0.00
ATOM	21453	C	GLY	1433	90.041	76.382	71.795	0.00	0.00
ATOM	21454	O	GLY	1433	88.933	76.724	71.272	0.00	0.00
ATOM	21455	N	ASP	1434	90.472	76.715	73.015	0.00	0.00
ATOM	21456	H	ASP	1434	91.306	76.347	73.451	0.00	0.00
ATOM	21457	CA	ASP	1434	89.652	77.577	73.951	0.00	0.00
ATOM	21458	HA	ASP	1434	88.811	76.954	74.254	0.00	0.00
ATOM	21459	CB	ASP	1434	90.596	77.792	75.134	0.00	0.00
ATOM	21460	HB2	ASP	1434	90.854	76.874	75.662	0.00	0.00
ATOM	21461	HB3	ASP	1434	91.589	78.062	74.776	0.00	0.00
ATOM	21462	CG	ASP	1434	90.117	78.795	76.205	0.00	0.00
ATOM	21463	OD1	ASP	1434	88.818	78.875	76.408	0.00	0.00
ATOM	21464	OD2	ASP	1434	90.910	79.369	76.962	0.00	0.00
ATOM	21465	C	ASP	1434	89.332	78.930	73.282	0.00	0.00
ATOM	21466	O	ASP	1434	90.234	79.625	72.827	0.00	0.00
ATOM	21467	N	ILE	1435	88.024	79.309	73.365	0.00	0.00
ATOM	21468	H	ILE	1435	87.393	78.657	73.810	0.00	0.00
ATOM	21469	CA	ILE	1435	87.348	80.437	72.816	0.00	0.00
ATOM	21470	HA	ILE	1435	87.577	80.435	71.750	0.00	0.00
ATOM	21471	CB	ILE	1435	85.772	80.401	73.008	0.00	0.00

ATOM	21472	HB	ILE	1435	85.547	80.213	74.057	0.00	0.00
ATOM	21473	CG2	ILE	1435	84.852	81.605	72.709	0.00	0.00
ATOM	21474	1HG2	ILE	1435	84.684	81.726	71.638	0.00	0.00
ATOM	21475	2HG2	ILE	1435	83.881	81.448	73.179	0.00	0.00
ATOM	21476	3HG2	ILE	1435	85.352	82.435	73.208	0.00	0.00
ATOM	21477	CG1	ILE	1435	85.276	79.132	72.286	0.00	0.00
ATOM	21478	2HG1	ILE	1435	85.506	78.213	72.824	0.00	0.00
ATOM	21479	3HG1	ILE	1435	84.188	79.189	72.314	0.00	0.00
ATOM	21480	CD1	ILE	1435	85.805	78.788	70.829	0.00	0.00
ATOM	21481	1HD1	ILE	1435	86.789	78.321	70.861	0.00	0.00
ATOM	21482	2HD1	ILE	1435	85.102	78.074	70.399	0.00	0.00
ATOM	21483	3HD1	ILE	1435	85.780	79.641	70.151	0.00	0.00
ATOM	21484	C	ILE	1435	87.843	81.763	73.408	0.00	0.00
ATOM	21485	O	ILE	1435	87.798	82.840	72.827	0.00	0.00
ATOM	21486	N	ASN	1436	88.282	81.604	74.707	0.00	0.00
ATOM	21487	H	ASN	1436	88.182	80.757	75.247	0.00	0.00
ATOM	21488	CA	ASN	1436	88.940	82.699	75.432	0.00	0.00
ATOM	21489	HA	ASN	1436	88.380	83.592	75.157	0.00	0.00
ATOM	21490	CB	ASN	1436	88.742	82.439	76.930	0.00	0.00
ATOM	21491	HB2	ASN	1436	87.755	82.047	77.178	0.00	0.00
ATOM	21492	HB3	ASN	1436	89.392	81.656	77.319	0.00	0.00
ATOM	21493	CG	ASN	1436	89.005	83.662	77.815	0.00	0.00
ATOM	21494	OD1	ASN	1436	88.113	84.475	77.915	0.00	0.00
ATOM	21495	ND2	ASN	1436	90.198	83.849	78.289	0.00	0.00
ATOM	21496	1HD2	ASN	1436	90.416	84.703	78.782	0.00	0.00
ATOM	21497	2HD2	ASN	1436	90.786	83.039	78.156	0.00	0.00

ATOM	21498	C	ASN	1436	90.417	83.063	75.043	0.00	0.00
ATOM	21499	O	ASN	1436	90.818	84.165	75.282	0.00	0.00
ATOM	21500	N	ALA	1437	91.135	82.144	74.377	0.00	0.00
ATOM	21501	H	ALA	1437	90.876	81.178	74.236	0.00	0.00
ATOM	21502	CA	ALA	1437	92.515	82.309	74.048	0.00	0.00
ATOM	21503	HA	ALA	1437	92.964	82.611	74.994	0.00	0.00
ATOM	21504	CB	ALA	1437	93.144	80.973	73.750	0.00	0.00
ATOM	21505	HB1	ALA	1437	94.147	81.066	73.333	0.00	0.00
ATOM	21506	HB2	ALA	1437	93.080	80.303	74.607	0.00	0.00
ATOM	21507	HB3	ALA	1437	92.439	80.637	72.990	0.00	0.00
ATOM	21508	C	ALA	1437	92.787	83.449	73.035	0.00	0.00
ATOM	21509	O	ALA	1437	92.047	83.763	72.101	0.00	0.00
ATOM	21510	N	SER	1438	94.063	83.886	73.178	0.00	0.00
ATOM	21511	H	SER	1438	94.587	83.657	74.011	0.00	0.00
ATOM	21512	CA	SER	1438	94.909	84.643	72.195	0.00	0.00
ATOM	21513	HA	SER	1438	94.432	85.607	72.015	0.00	0.00
ATOM	21514	CB	SER	1438	96.256	84.982	72.894	0.00	0.00
ATOM	21515	HB2	SER	1438	96.860	85.573	72.206	0.00	0.00
ATOM	21516	HB3	SER	1438	95.952	85.624	73.722	0.00	0.00
ATOM	21517	OG	SER	1438	96.832	83.778	73.308	0.00	0.00
ATOM	21518	HG	SER	1438	96.255	83.495	74.021	0.00	0.00
ATOM	21519	C	SER	1438	95.160	84.154	70.763	0.00	0.00
ATOM	21520	O	SER	1438	95.670	84.915	69.882	0.00	0.00
ATOM	21521	N	ILE	1439	94.932	82.889	70.507	0.00	0.00
ATOM	21522	H	ILE	1439	94.592	82.265	71.226	0.00	0.00
ATOM	21523	CA	ILE	1439	95.436	82.068	69.358	0.00	0.00

ATOM	21524	HA	ILE	1439	95.507	82.611	68.416	0.00	0.00
ATOM	21525	CB	ILE	1439	96.901	81.613	69.655	0.00	0.00
ATOM	21526	HB	ILE	1439	97.164	80.807	68.970	0.00	0.00
ATOM	21527	CG2	ILE	1439	97.890	82.767	69.514	0.00	0.00
ATOM	21528	1HG2	ILE	1439	98.912	82.388	69.510	0.00	0.00
ATOM	21529	2HG2	ILE	1439	97.639	83.288	68.590	0.00	0.00
ATOM	21530	3HG2	ILE	1439	97.750	83.379	70.405	0.00	0.00
ATOM	21531	CG1	ILE	1439	97.030	80.838	70.972	0.00	0.00
ATOM	21532	2HG1	ILE	1439	97.197	81.441	71.864	0.00	0.00
ATOM	21533	3HG1	ILE	1439	96.084	80.362	71.229	0.00	0.00
ATOM	21534	CD1	ILE	1439	98.166	79.791	70.978	0.00	0.00
ATOM	21535	1HD1	ILE	1439	99.131	80.295	70.934	0.00	0.00
ATOM	21536	2HD1	ILE	1439	98.022	79.193	71.878	0.00	0.00
ATOM	21537	3HD1	ILE	1439	97.965	79.153	70.117	0.00	0.00
ATOM	21538	C	ILE	1439	94.443	80.909	69.260	0.00	0.00
ATOM	21539	O	ILE	1439	93.756	80.684	70.317	0.00	0.00
ATOM	21540	N	PRO	1440	94.354	80.111	68.151	0.00	0.00
ATOM	21541	CD	PRO	1440	95.149	80.318	66.937	0.00	0.00
ATOM	21542	HD2	PRO	1440	95.131	81.391	66.742	0.00	0.00
ATOM	21543	HD3	PRO	1440	96.153	79.905	67.040	0.00	0.00
ATOM	21544	CG	PRO	1440	94.350	79.592	65.833	0.00	0.00
ATOM	21545	HG2	PRO	1440	94.222	80.227	64.956	0.00	0.00
ATOM	21546	HG3	PRO	1440	94.973	78.718	65.643	0.00	0.00
ATOM	21547	CB	PRO	1440	92.988	79.346	66.389	0.00	0.00
ATOM	21548	HB2	PRO	1440	92.479	80.265	66.098	0.00	0.00
ATOM	21549	HB3	PRO	1440	92.448	78.555	65.868	0.00	0.00



ATOM 21550 CA PRO 1440 93.234 79.192 67.940 0.00 0.00  
ATOM 21551 HA PRO 1440 92.389 79.575 68.512 0.00 0.00  
ATOM 21552 C PRO 1440 93.455 77.740 68.421 0.00 0.00  
ATOM 21553 O PRO 1440 92.607 76.934 68.082 0.00 0.00  
ATOM 21554 N THR 1441 94.606 77.559 69.026 0.00 0.00  
ATOM 21555 H THR 1441 95.207 78.323 69.299 0.00 0.00  
ATOM 21556 CA THR 1441 95.209 76.231 69.081 0.00 0.00  
ATOM 21557 HA THR 1441 94.487 75.574 68.594 0.00 0.00  
ATOM 21558 CB THR 1441 96.469 76.246 68.155 0.00 0.00  
ATOM 21559 HB THR 1441 97.110 75.396 68.390 0.00 0.00  
ATOM 21560 CG2 THR 1441 96.103 75.966 66.722 0.00 0.00  
ATOM 21561 1HG2 THR 1441 97.015 75.860 66.133 0.00 0.00  
ATOM 21562 2HG2 THR 1441 95.602 74.998 66.732 0.00 0.00  
ATOM 21563 3HG2 THR 1441 95.383 76.711 66.385 0.00 0.00  
ATOM 21564 OG1 THR 1441 97.307 77.406 68.205 0.00 0.00  
TER 0 0  
ATOM 21565 HG1 THR 1441 98.004 77.176 68.825 0.00 0.00  
ATOM 21566 C THR 1441 95.530 75.530 70.474 0.00 0.00  
ATOM 21567 O THR 1441 96.012 74.354 70.502 0.00 0.00  
ATOM 21568 N PRO 1442 95.317 76.119 71.658 0.00 0.00  
ATOM 21569 CD PRO 1442 95.008 77.529 71.856 0.00 0.00  
ATOM 21570 HD2 PRO 1442 94.015 77.656 71.424 0.00 0.00  
ATOM 21571 HD3 PRO 1442 95.810 78.105 71.396 0.00 0.00  
ATOM 21572 CG PRO 1442 94.995 77.770 73.332 0.00 0.00  
ATOM 21573 HG2 PRO 1442 95.269 78.782 73.626 0.00 0.00  
ATOM 21574 HG3 PRO 1442 93.989 77.638 73.733 0.00 0.00

ATOM	21575	CB	PRO	1442	95.884	76.734	73.875	0.00	0.00
ATOM	21576	HB2	PRO	1442	96.916	77.086	73.864	0.00	0.00
ATOM	21577	HB3	PRO	1442	95.746	76.564	74.943	0.00	0.00
ATOM	21578	CA	PRO	1442	95.678	75.548	72.963	0.00	0.00
ATOM	21579	HA	PRO	1442	96.603	74.975	72.892	0.00	0.00
ATOM	21580	C	PRO	1442	94.528	74.716	73.593	0.00	0.00
ATOM	21581	O	PRO	1442	93.366	74.797	73.222	0.00	0.00
ATOM	21582	N	GLN	1443	94.914	73.821	74.568	0.00	0.00
ATOM	21583	H	GLN	1443	95.904	73.679	74.712	0.00	0.00
ATOM	21584	CA	GLN	1443	94.059	72.828	75.206	0.00	0.00
ATOM	21585	HA	GLN	1443	93.593	72.262	74.400	0.00	0.00
ATOM	21586	CB	GLN	1443	94.956	71.786	75.963	0.00	0.00
ATOM	21587	HB2	GLN	1443	95.421	72.190	76.862	0.00	0.00
ATOM	21588	HB3	GLN	1443	94.351	70.942	76.294	0.00	0.00
ATOM	21589	CG	GLN	1443	95.948	71.158	74.950	0.00	0.00
ATOM	21590	HG2	GLN	1443	96.733	71.851	74.648	0.00	0.00
ATOM	21591	HG3	GLN	1443	96.556	70.481	75.550	0.00	0.00
ATOM	21592	CD	GLN	1443	95.273	70.420	73.807	0.00	0.00
ATOM	21593	OE1	GLN	1443	94.285	69.769	73.918	0.00	0.00
ATOM	21594	NE2	GLN	1443	95.713	70.662	72.597	0.00	0.00
ATOM	21595	1HE2	GLN	1443	95.294	70.009	71.950	0.00	0.00
ATOM	21596	2HE2	GLN	1443	96.602	71.088	72.380	0.00	0.00
ATOM	21597	C	GLN	1443	92.879	73.452	76.146	0.00	0.00
ATOM	21598	O	GLN	1443	93.185	74.396	76.813	0.00	0.00
ATOM	21599	N	PRO	1444	91.651	72.973	76.006	0.00	0.00
ATOM	21600	CD	PRO	1444	90.601	73.404	76.878	0.00	0.00

ATOM 21601	HD2 PRO	1444	90.980	73.051	77.837	0.00	0.00
ATOM 21602	HD3 PRO	1444	90.373	74.460	76.733	0.00	0.00
ATOM 21603	CG PRO	1444	89.271	72.707	76.538	0.00	0.00
ATOM 21604	HG2 PRO	1444	88.857	72.397	77.498	0.00	0.00
ATOM 21605	HG3 PRO	1444	88.698	73.334	75.856	0.00	0.00
ATOM 21606	CB PRO	1444	89.810	71.486	75.738	0.00	0.00
ATOM 21607	HB2 PRO	1444	89.910	70.631	76.406	0.00	0.00
ATOM 21608	HB3 PRO	1444	89.011	71.223	75.044	0.00	0.00
ATOM 21609	CA PRO	1444	91.142	71.919	75.158	0.00	0.00
ATOM 21610	HA PRO	1444	91.795	71.052	75.258	0.00	0.00
ATOM 21611	C PRO	1444	91.063	72.296	73.700	0.00	0.00
ATOM 21612	O PRO	1444	90.392	73.252	73.296	0.00	0.00
ATOM 21613	N VAL	1445	91.597	71.385	72.873	0.00	0.00
ATOM 21614	H VAL	1445	92.080	70.620	73.323	0.00	0.00
ATOM 21615	CA VAL	1445	91.356	71.280	71.446	0.00	0.00
ATOM 21616	HA VAL	1445	91.011	72.272	71.154	0.00	0.00
ATOM 21617	CB VAL	1445	92.698	71.095	70.643	0.00	0.00
ATOM 21618	HB VAL	1445	93.153	70.221	71.108	0.00	0.00
ATOM 21619	CG1 VAL	1445	92.477	71.012	69.125	0.00	0.00
ATOM 21620	1HG1 VAL	1445	93.483	70.854	68.736	0.00	0.00
ATOM 21621	2HG1 VAL	1445	91.796	70.190	68.902	0.00	0.00
ATOM 21622	3HG1 VAL	1445	92.230	72.004	68.747	0.00	0.00
ATOM 21623	CG2 VAL	1445	93.619	72.267	70.889	0.00	0.00
ATOM 21624	1HG2 VAL	1445	93.131	73.221	70.688	0.00	0.00
ATOM 21625	2HG2 VAL	1445	93.877	72.186	71.945	0.00	0.00
ATOM 21626	3HG2 VAL	1445	94.543	72.171	70.318	0.00	0.00

ATOM	21627	C	VAL	1445	90.312	70.121	71.075	0.00	0.00
ATOM	21628	O	VAL	1445	90.563	68.962	71.215	0.00	0.00
ATOM	21629	N	HIE	1446	89.090	70.575	70.657	0.00	0.00
ATOM	21630	H	HIE	1446	89.018	71.572	70.802	0.00	0.00
ATOM	21631	CA	HIE	1446	87.866	69.701	70.386	0.00	0.00
ATOM	21632	HA	HIE	1446	88.294	68.772	70.011	0.00	0.00
ATOM	21633	CB	HIE	1446	87.155	69.390	71.692	0.00	0.00
ATOM	21634	HB2	HIE	1446	86.539	68.491	71.664	0.00	0.00
ATOM	21635	HB3	HIE	1446	87.959	69.232	72.411	0.00	0.00
ATOM	21636	CG	HIE	1446	86.321	70.550	72.214	0.00	0.00
ATOM	21637	ND1	HIE	1446	85.206	71.013	71.506	0.00	0.00
ATOM	21638	CE1	HIE	1446	84.642	71.959	72.263	0.00	0.00
ATOM	21639	HE1	HIE	1446	83.607	72.248	72.154	0.00	0.00
ATOM	21640	NE2	HIE	1446	85.354	72.122	73.372	0.00	0.00
ATOM	21641	HE2	HIE	1446	85.122	72.710	74.160	0.00	0.00
ATOM	21642	CD2	HIE	1446	86.419	71.242	73.407	0.00	0.00
ATOM	21643	HD2	HIE	1446	87.063	71.024	74.247	0.00	0.00
ATOM	21644	C	HIE	1446	86.996	70.187	69.259	0.00	0.00
ATOM	21645	O	HIE	1446	87.129	71.309	68.682	0.00	0.00
ATOM	21646	N	TYR	1447	86.125	69.337	68.771	0.00	0.00
ATOM	21647	H	TYR	1447	86.027	68.502	69.333	0.00	0.00
ATOM	21648	CA	TYR	1447	85.309	69.612	67.545	0.00	0.00
ATOM	21649	HA	TYR	1447	86.032	70.107	66.896	0.00	0.00
ATOM	21650	CB	TYR	1447	84.938	68.374	66.657	0.00	0.00
ATOM	21651	HB2	TYR	1447	84.425	67.684	67.327	0.00	0.00
ATOM	21652	HB3	TYR	1447	84.179	68.737	65.964	0.00	0.00

ATOM	21653	CG	TYR	1447	85.976	67.660	65.795	0.00	0.00
ATOM	21654	CD1	TYR	1447	86.989	66.917	66.430	0.00	0.00
ATOM	21655	HD1	TYR	1447	86.842	66.764	67.489	0.00	0.00
ATOM	21656	CE1	TYR	1447	87.972	66.268	65.685	0.00	0.00
ATOM	21657	HE1	TYR	1447	88.669	65.568	66.121	0.00	0.00
ATOM	21658	CZ	TYR	1447	88.079	66.476	64.309	0.00	0.00
ATOM	21659	OH	TYR	1447	88.991	65.832	63.584	0.00	0.00
ATOM	21660	HH	TYR	1447	89.151	66.261	62.740	0.00	0.00
ATOM	21661	CE2	TYR	1447	87.076	67.214	63.680	0.00	0.00
ATOM	21662	HE2	TYR	1447	87.050	67.329	62.606	0.00	0.00
ATOM	21663	CD2	TYR	1447	86.046	67.835	64.421	0.00	0.00
ATOM	21664	HD2	TYR	1447	85.228	68.206	63.822	0.00	0.00
ATOM	21665	C	TYR	1447	84.123	70.452	67.816	0.00	0.00
ATOM	21666	O	TYR	1447	83.115	69.977	68.338	0.00	0.00
ATOM	21667	N	ARG	1448	84.163	71.718	67.335	0.00	0.00
ATOM	21668	H	ARG	1448	84.958	71.890	66.736	0.00	0.00
ATOM	21669	CA	ARG	1448	83.307	72.871	67.567	0.00	0.00
ATOM	21670	HA	ARG	1448	82.484	72.485	68.168	0.00	0.00
ATOM	21671	CB	ARG	1448	84.045	74.071	68.255	0.00	0.00
ATOM	21672	HB2	ARG	1448	84.789	74.506	67.587	0.00	0.00
ATOM	21673	HB3	ARG	1448	83.326	74.882	68.369	0.00	0.00
ATOM	21674	CG	ARG	1448	84.788	73.765	69.520	0.00	0.00
ATOM	21675	HG2	ARG	1448	84.080	73.427	70.277	0.00	0.00
ATOM	21676	HG3	ARG	1448	85.440	72.913	69.330	0.00	0.00
ATOM	21677	CD	ARG	1448	85.509	74.975	70.147	0.00	0.00
ATOM	21678	HD2	ARG	1448	84.830	75.528	70.796	0.00	0.00

ATOM	21679	HD3	ARG	1448	85.840	75.635	69.345	0.00	0.00
ATOM	21680	NE	ARG	1448	86.698	74.577	70.941	0.00	0.00
ATOM	21681	HE	ARG	1448	87.521	74.228	70.471	0.00	0.00
ATOM	21682	CZ	ARG	1448	86.838	74.776	72.256	0.00	0.00
ATOM	21683	NH1	ARG	1448	87.814	74.298	72.902	0.00	0.00
ATOM	21684	1HH1	ARG	1448	87.793	74.492	73.893	0.00	0.00
ATOM	21685	2HH1	ARG	1448	88.442	73.737	72.344	0.00	0.00
ATOM	21686	NH2	ARG	1448	85.998	75.403	73.017	0.00	0.00
ATOM	21687	1HH2	ARG	1448	86.073	75.330	74.022	0.00	0.00
ATOM	21688	2HH2	ARG	1448	85.172	75.729	72.536	0.00	0.00
ATOM	21689	C	ARG	1448	82.636	73.320	66.268	0.00	0.00
ATOM	21690	O	ARG	1448	83.351	73.358	65.246	0.00	0.00
ATOM	21691	N	PRO	1449	81.313	73.576	66.197	0.00	0.00
ATOM	21692	CD	PRO	1449	80.414	73.666	67.326	0.00	0.00
ATOM	21693	HD2	PRO	1449	80.803	74.307	68.117	0.00	0.00
ATOM	21694	HD3	PRO	1449	80.221	72.713	67.819	0.00	0.00
ATOM	21695	CG	PRO	1449	79.084	74.257	66.808	0.00	0.00
ATOM	21696	HG2	PRO	1449	78.224	74.007	67.430	0.00	0.00
ATOM	21697	HG3	PRO	1449	79.129	75.341	66.914	0.00	0.00
ATOM	21698	CB	PRO	1449	79.018	73.838	65.385	0.00	0.00
ATOM	21699	HB2	PRO	1449	78.691	72.798	65.395	0.00	0.00
ATOM	21700	HB3	PRO	1449	78.531	74.507	64.675	0.00	0.00
ATOM	21701	CA	PRO	1449	80.495	73.833	64.969	0.00	0.00
ATOM	21702	HA	PRO	1449	80.663	73.065	64.214	0.00	0.00
ATOM	21703	C	PRO	1449	80.884	75.266	64.406	0.00	0.00
ATOM	21704	O	PRO	1449	81.226	76.194	65.140	0.00	0.00

ATOM	21705	N	MET	1450	80.933	75.397	63.092	0.00	0.00
ATOM	21706	H	MET	1450	80.479	74.764	62.448	0.00	0.00
ATOM	21707	CA	MET	1450	81.346	76.594	62.387	0.00	0.00
ATOM	21708	HA	MET	1450	81.443	77.420	63.092	0.00	0.00
ATOM	21709	CB	MET	1450	82.822	76.368	61.779	0.00	0.00
ATOM	21710	HB2	MET	1450	82.800	75.525	61.088	0.00	0.00
ATOM	21711	HB3	MET	1450	83.159	77.271	61.269	0.00	0.00
ATOM	21712	CG	MET	1450	83.847	76.058	62.924	0.00	0.00
ATOM	21713	HG2	MET	1450	83.452	75.289	63.588	0.00	0.00
ATOM	21714	HG3	MET	1450	84.763	75.704	62.451	0.00	0.00
ATOM	21715	SD	MET	1450	84.248	77.520	63.907	0.00	0.00
ATOM	21716	CE	MET	1450	85.091	76.699	65.300	0.00	0.00
ATOM	21717	HE1	MET	1450	85.920	76.100	64.921	0.00	0.00
ATOM	21718	HE2	MET	1450	85.491	77.478	65.949	0.00	0.00
ATOM	21719	HE3	MET	1450	84.450	76.090	65.938	0.00	0.00
ATOM	21720	C	MET	1450	80.336	77.068	61.341	0.00	0.00
ATOM	21721	O	MET	1450	79.310	76.383	61.094	0.00	0.00
ATOM	21722	N	PHE	1451	80.509	78.187	60.701	0.00	0.00
ATOM	21723	H	PHE	1451	81.363	78.717	60.802	0.00	0.00
ATOM	21724	CA	PHE	1451	79.527	78.867	59.866	0.00	0.00
ATOM	21725	HA	PHE	1451	78.741	79.204	60.542	0.00	0.00
ATOM	21726	CB	PHE	1451	80.311	80.118	59.319	0.00	0.00
ATOM	21727	HB2	PHE	1451	81.164	79.702	58.781	0.00	0.00
ATOM	21728	HB3	PHE	1451	79.696	80.814	58.749	0.00	0.00
ATOM	21729	CG	PHE	1451	80.863	81.018	60.492	0.00	0.00
ATOM	21730	CD1	PHE	1451	82.277	81.138	60.654	0.00	0.00

ATOM	21731	HD1	PHE	1451	82.940	80.656	59.950	0.00	0.00
ATOM	21732	CE1	PHE	1451	82.838	81.947	61.668	0.00	0.00
ATOM	21733	HE1	PHE	1451	83.911	81.911	61.784	0.00	0.00
ATOM	21734	CZ	PHE	1451	81.946	82.680	62.396	0.00	0.00
ATOM	21735	HZ	PHE	1451	82.295	83.283	63.221	0.00	0.00
ATOM	21736	CE2	PHE	1451	80.544	82.640	62.241	0.00	0.00
ATOM	21737	HE2	PHE	1451	79.898	83.200	62.901	0.00	0.00
ATOM	21738	CD2	PHE	1451	79.974	81.708	61.320	0.00	0.00
ATOM	21739	HD2	PHE	1451	78.913	81.813	61.146	0.00	0.00
ATOM	21740	C	PHE	1451	78.792	78.114	58.770	0.00	0.00
ATOM	21741	O	PHE	1451	77.612	78.439	58.481	0.00	0.00
ATOM	21742	N	GLY	1452	79.362	77.089	58.091	0.00	0.00
ATOM	21743	H	GLY	1452	80.312	76.820	58.301	0.00	0.00
ATOM	21744	CA	GLY	1452	78.595	76.262	57.145	0.00	0.00
ATOM	21745	HA2	GLY	1452	78.318	76.948	56.344	0.00	0.00
ATOM	21746	HA3	GLY	1452	79.300	75.578	56.672	0.00	0.00
ATOM	21747	C	GLY	1452	77.447	75.489	57.756	0.00	0.00
ATOM	21748	O	GLY	1452	76.519	75.042	57.109	0.00	0.00
ATOM	21749	N	ALA	1453	77.348	75.467	59.035	0.00	0.00
ATOM	21750	H	ALA	1453	77.889	76.142	59.557	0.00	0.00
ATOM	21751	CA	ALA	1453	76.321	74.807	59.874	0.00	0.00
ATOM	21752	HA	ALA	1453	75.581	74.313	59.245	0.00	0.00
ATOM	21753	CB	ALA	1453	76.930	73.660	60.726	0.00	0.00
ATOM	21754	HB1	ALA	1453	76.389	73.494	61.657	0.00	0.00
ATOM	21755	HB2	ALA	1453	77.070	72.774	60.106	0.00	0.00
ATOM	21756	HB3	ALA	1453	77.912	73.907	61.128	0.00	0.00



ATOM	21757	C	ALA	1453	75.485	75.884	60.656	0.00	0.00
ATOM	21758	O	ALA	1453	74.622	75.526	61.522	0.00	0.00
ATOM	21759	N	LEU	1454	75.545	77.153	60.311	0.00	0.00
ATOM	21760	H	LEU	1454	76.100	77.427	59.513	0.00	0.00
ATOM	21761	CA	LEU	1454	74.798	78.236	61.045	0.00	0.00
ATOM	21762	HA	LEU	1454	74.225	77.723	61.818	0.00	0.00
ATOM	21763	CB	LEU	1454	75.754	79.237	61.540	0.00	0.00
ATOM	21764	HB2	LEU	1454	76.604	78.757	62.025	0.00	0.00
ATOM	21765	HB3	LEU	1454	76.384	79.654	60.755	0.00	0.00
ATOM	21766	CG	LEU	1454	75.145	80.227	62.551	0.00	0.00
ATOM	21767	HG	LEU	1454	74.351	80.816	62.092	0.00	0.00
ATOM	21768	CD1	LEU	1454	74.491	79.589	63.783	0.00	0.00
ATOM	21769	1HD1	LEU	1454	74.100	80.367	64.438	0.00	0.00
ATOM	21770	2HD1	LEU	1454	73.609	78.987	63.562	0.00	0.00
ATOM	21771	3HD1	LEU	1454	75.169	78.923	64.317	0.00	0.00
ATOM	21772	CD2	LEU	1454	76.216	81.074	63.196	0.00	0.00
ATOM	21773	1HD2	LEU	1454	77.081	80.422	63.313	0.00	0.00
ATOM	21774	2HD2	LEU	1454	76.473	81.856	62.481	0.00	0.00
ATOM	21775	3HD2	LEU	1454	75.868	81.524	64.126	0.00	0.00
ATOM	21776	C	LEU	1454	73.715	78.963	60.193	0.00	0.00
ATOM	21777	O	LEU	1454	73.950	79.315	59.036	0.00	0.00
ATOM	21778	N	GLY	1455	72.549	79.234	60.778	0.00	0.00
ATOM	21779	H	GLY	1455	72.397	78.957	61.737	0.00	0.00
ATOM	21780	CA	GLY	1455	71.670	80.251	60.277	0.00	0.00
ATOM	21781	HA2	GLY	1455	70.828	80.257	60.969	0.00	0.00
ATOM	21782	HA3	GLY	1455	72.224	81.189	60.298	0.00	0.00

ATOM	21783	C	GLY	1455	71.143	79.940	58.862	0.00	0.00
ATOM	21784	O	GLY	1455	70.873	78.751	58.501	0.00	0.00
ATOM	21785	N	SER	1456	70.868	80.981	58.116	0.00	0.00
ATOM	21786	H	SER	1456	71.202	81.858	58.489	0.00	0.00
ATOM	21787	CA	SER	1456	70.604	80.887	56.710	0.00	0.00
ATOM	21788	HA	SER	1456	69.968	80.050	56.422	0.00	0.00
ATOM	21789	CB	SER	1456	69.858	82.109	56.236	0.00	0.00
ATOM	21790	HB2	SER	1456	69.580	82.093	55.183	0.00	0.00
ATOM	21791	HB3	SER	1456	69.008	82.235	56.907	0.00	0.00
ATOM	21792	OG	SER	1456	70.651	83.204	56.498	0.00	0.00
ATOM	21793	HG	SER	1456	70.189	83.864	55.975	0.00	0.00
ATOM	21794	C	SER	1456	71.841	80.707	55.785	0.00	0.00
ATOM	21795	O	SER	1456	71.771	80.173	54.724	0.00	0.00
ATOM	21796	N	ALA	1457	73.078	80.985	56.331	0.00	0.00
ATOM	21797	H	ALA	1457	73.145	81.511	57.190	0.00	0.00
ATOM	21798	CA	ALA	1457	74.327	80.465	55.767	0.00	0.00
ATOM	21799	HA	ALA	1457	74.504	80.938	54.801	0.00	0.00
ATOM	21800	CB	ALA	1457	75.509	80.908	56.589	0.00	0.00
ATOM	21801	HB1	ALA	1457	75.306	80.539	57.594	0.00	0.00
ATOM	21802	HB2	ALA	1457	76.415	80.357	56.338	0.00	0.00
ATOM	21803	HB3	ALA	1457	75.690	81.960	56.367	0.00	0.00
ATOM	21804	C	ALA	1457	74.349	78.912	55.504	0.00	0.00
ATOM	21805	O	ALA	1457	74.603	78.497	54.358	0.00	0.00
ATOM	21806	N	ARG	1458	73.945	78.100	56.526	0.00	0.00
ATOM	21807	H	ARG	1458	73.821	78.576	57.408	0.00	0.00
ATOM	21808	CA	ARG	1458	73.621	76.668	56.469	0.00	0.00

ATOM	21809	HA	ARG	1458	74.610	76.218	56.377	0.00	0.00
ATOM	21810	CB	ARG	1458	72.920	76.157	57.714	0.00	0.00
ATOM	21811	HB2	ARG	1458	73.586	76.461	58.522	0.00	0.00
ATOM	21812	HB3	ARG	1458	71.987	76.615	58.041	0.00	0.00
ATOM	21813	CG	ARG	1458	72.753	74.609	57.765	0.00	0.00
ATOM	21814	HG2	ARG	1458	73.677	74.155	57.405	0.00	0.00
ATOM	21815	HG3	ARG	1458	72.024	74.257	57.035	0.00	0.00
ATOM	21816	CD	ARG	1458	72.320	74.006	59.123	0.00	0.00
ATOM	21817	HD2	ARG	1458	71.933	73.006	58.926	0.00	0.00
ATOM	21818	HD3	ARG	1458	73.213	74.022	59.747	0.00	0.00
ATOM	21819	NE	ARG	1458	71.221	74.706	59.820	0.00	0.00
ATOM	21820	HE	ARG	1458	70.464	74.941	59.195	0.00	0.00
ATOM	21821	CZ	ARG	1458	70.909	75.091	61.059	0.00	0.00
ATOM	21822	NH1	ARG	1458	71.767	75.043	62.125	0.00	0.00
ATOM	21823	1HH1	ARG	1458	71.605	75.543	62.987	0.00	0.00
ATOM	21824	2HH1	ARG	1458	72.715	74.784	61.890	0.00	0.00
ATOM	21825	NH2	ARG	1458	69.681	75.567	61.228	0.00	0.00
ATOM	21826	1HH2	ARG	1458	69.406	75.703	62.191	0.00	0.00
ATOM	21827	2HH2	ARG	1458	69.043	75.663	60.451	0.00	0.00
ATOM	21828	C	ARG	1458	72.796	76.405	55.206	0.00	0.00
ATOM	21829	O	ARG	1458	73.254	75.645	54.384	0.00	0.00
ATOM	21830	N	HIE	1459	71.647	77.043	54.983	0.00	0.00
ATOM	21831	H	HIE	1459	71.334	77.653	55.725	0.00	0.00
ATOM	21832	CA	HIE	1459	70.830	76.870	53.804	0.00	0.00
ATOM	21833	HA	HIE	1459	70.576	75.816	53.688	0.00	0.00
ATOM	21834	CB	HIE	1459	69.486	77.702	53.928	0.00	0.00

ATOM	21835	HB2	HIE	1459	69.726	78.720	54.234	0.00	0.00
ATOM	21836	HB3	HIE	1459	68.965	77.626	52.973	0.00	0.00
ATOM	21837	CG	HIE	1459	68.476	77.174	54.952	0.00	0.00
ATOM	21838	ND1	HIE	1459	67.778	77.901	55.895	0.00	0.00
ATOM	21839	CE1	HIE	1459	66.922	77.023	56.356	0.00	0.00
ATOM	21840	HE1	HIE	1459	66.267	77.157	57.204	0.00	0.00
ATOM	21841	NE2	HIE	1459	67.086	75.841	55.818	0.00	0.00
ATOM	21842	HE2	HIE	1459	66.546	75.007	56.001	0.00	0.00
ATOM	21843	CD2	HIE	1459	67.941	75.935	54.829	0.00	0.00
ATOM	21844	HD2	HIE	1459	68.226	75.135	54.162	0.00	0.00
ATOM	21845	C	HIE	1459	71.497	77.202	52.428	0.00	0.00
ATOM	21846	O	HIE	1459	71.176	76.574	51.437	0.00	0.00
ATOM	21847	N	HIE	1460	72.558	78.033	52.476	0.00	0.00
ATOM	21848	H	HIE	1460	72.796	78.473	53.353	0.00	0.00
ATOM	21849	CA	HIE	1460	73.375	78.256	51.269	0.00	0.00
ATOM	21850	HA	HIE	1460	72.738	78.170	50.390	0.00	0.00
ATOM	21851	CB	HIE	1460	73.926	79.724	51.354	0.00	0.00
ATOM	21852	HB2	HIE	1460	73.317	80.325	52.028	0.00	0.00
ATOM	21853	HB3	HIE	1460	74.936	79.669	51.761	0.00	0.00
ATOM	21854	CG	HIE	1460	73.915	80.553	50.095	0.00	0.00
ATOM	21855	ND1	HIE	1460	72.942	81.365	49.725	0.00	0.00
ATOM	21856	CE1	HIE	1460	73.071	81.521	48.402	0.00	0.00
ATOM	21857	HE1	HIE	1460	72.500	82.204	47.790	0.00	0.00
ATOM	21858	NE2	HIE	1460	74.113	80.918	47.940	0.00	0.00
ATOM	21859	HE2	HIE	1460	74.331	80.868	46.955	0.00	0.00
ATOM	21860	CD2	HIE	1460	74.661	80.260	48.967	0.00	0.00

ATOM	21861	HD2	HIE	1460	75.309	79.402	48.867	0.00	0.00
ATOM	21862	C	HIE	1460	74.545	77.229	51.065	0.00	0.00
ATOM	21863	O	HIE	1460	75.089	77.107	50.008	0.00	0.00
ATOM	21864	N	CYS	1461	74.916	76.460	52.157	0.00	0.00
ATOM	21865	H	CYS	1461	74.391	76.641	53.000	0.00	0.00
ATOM	21866	CA	CYS	1461	76.102	75.551	52.308	0.00	0.00
ATOM	21867	HA	CYS	1461	76.748	75.799	51.466	0.00	0.00
ATOM	21868	CB	CYS	1461	76.788	75.822	53.653	0.00	0.00
ATOM	21869	HB2	CYS	1461	76.039	75.831	54.444	0.00	0.00
ATOM	21870	HB3	CYS	1461	77.589	75.107	53.843	0.00	0.00
ATOM	21871	SG	CYS	1461	77.578	77.556	53.477	0.00	0.00
ATOM	21872	HG	CYS	1461	76.493	78.332	53.543	0.00	0.00
ATOM	21873	C	CYS	1461	75.734	74.016	52.025	0.00	0.00
ATOM	21874	O	CYS	1461	76.598	73.284	51.598	0.00	0.00
ATOM	21875	N	ARG	1462	74.473	73.580	52.351	0.00	0.00
ATOM	21876	H	ARG	1462	73.824	74.239	52.756	0.00	0.00
ATOM	21877	CA	ARG	1462	74.015	72.239	52.180	0.00	0.00
ATOM	21878	HA	ARG	1462	74.830	71.660	51.747	0.00	0.00
ATOM	21879	CB	ARG	1462	73.842	71.546	53.483	0.00	0.00
ATOM	21880	HB2	ARG	1462	73.610	70.508	53.245	0.00	0.00
ATOM	21881	HB3	ARG	1462	74.825	71.586	53.953	0.00	0.00
ATOM	21882	CG	ARG	1462	72.864	71.994	54.459	0.00	0.00
ATOM	21883	HG2	ARG	1462	73.074	71.653	55.472	0.00	0.00
ATOM	21884	HG3	ARG	1462	72.906	73.077	54.579	0.00	0.00
ATOM	21885	CD	ARG	1462	71.418	71.751	53.965	0.00	0.00
ATOM	21886	HD2	ARG	1462	70.652	72.183	54.609	0.00	0.00

ATOM	21887	HD3	ARG	1462	71.177	72.173	52.989	0.00	0.00
ATOM	21888	NE	ARG	1462	71.091	70.333	54.037	0.00	0.00
ATOM	21889	HE	ARG	1462	71.562	69.842	54.783	0.00	0.00
ATOM	21890	CZ	ARG	1462	70.155	69.650	53.415	0.00	0.00
ATOM	21891	NH1	ARG	1462	69.349	70.297	52.559	0.00	0.00
ATOM	21892	1HH1	ARG	1462	68.718	69.840	51.917	0.00	0.00
ATOM	21893	2HH1	ARG	1462	69.164	71.286	52.642	0.00	0.00
ATOM	21894	NH2	ARG	1462	70.084	68.346	53.537	0.00	0.00
ATOM	21895	1HH2	ARG	1462	69.236	67.938	53.170	0.00	0.00
ATOM	21896	2HH2	ARG	1462	70.606	67.979	54.320	0.00	0.00
ATOM	21897	C	ARG	1462	72.919	72.070	51.177	0.00	0.00
ATOM	21898	O	ARG	1462	72.295	73.027	50.804	0.00	0.00
ATOM	21899	N	LEU	1463	72.778	70.899	50.637	0.00	0.00
ATOM	21900	H	LEU	1463	73.230	70.152	51.145	0.00	0.00
ATOM	21901	CA	LEU	1463	71.975	70.576	49.473	0.00	0.00
ATOM	21902	HA	LEU	1463	71.439	71.465	49.141	0.00	0.00
ATOM	21903	CB	LEU	1463	73.079	70.307	48.384	0.00	0.00
ATOM	21904	HB2	LEU	1463	73.886	71.035	48.463	0.00	0.00
ATOM	21905	HB3	LEU	1463	73.598	69.361	48.543	0.00	0.00
ATOM	21906	CG	LEU	1463	72.580	70.486	46.880	0.00	0.00
ATOM	21907	HG	LEU	1463	72.143	71.484	46.872	0.00	0.00
ATOM	21908	CD1	LEU	1463	73.838	70.702	46.012	0.00	0.00
ATOM	21909	1HD1	LEU	1463	74.439	69.793	46.042	0.00	0.00
ATOM	21910	2HD1	LEU	1463	73.638	70.644	44.942	0.00	0.00
ATOM	21911	3HD1	LEU	1463	74.271	71.676	46.240	0.00	0.00
ATOM	21912	CD2	LEU	1463	71.725	69.460	46.171	0.00	0.00

ATOM	21913	1HD2	LEU	1463	70.731	69.410	46.617	0.00	0.00
ATOM	21914	2HD2	LEU	1463	71.571	69.834	45.159	0.00	0.00
ATOM	21915	3HD2	LEU	1463	72.219	68.489	46.153	0.00	0.00
ATOM	21916	C	LEU	1463	70.976	69.441	49.781	0.00	0.00
ATOM	21917	O	LEU	1463	71.390	68.383	50.276	0.00	0.00
ATOM	21918	N	THR	1464	69.698	69.572	49.271	0.00	0.00
ATOM	21919	H	THR	1464	69.445	70.429	48.800	0.00	0.00
ATOM	21920	CA	THR	1464	68.717	68.491	49.249	0.00	0.00
ATOM	21921	HA	THR	1464	68.971	67.793	50.047	0.00	0.00
ATOM	21922	CB	THR	1464	67.343	69.150	49.570	0.00	0.00
ATOM	21923	HB	THR	1464	67.129	70.016	48.945	0.00	0.00
ATOM	21924	CG2	THR	1464	66.146	68.223	49.456	0.00	0.00
ATOM	21925	1HG2	THR	1464	66.380	67.248	49.883	0.00	0.00
ATOM	21926	2HG2	THR	1464	65.189	68.565	49.849	0.00	0.00
ATOM	21927	3HG2	THR	1464	65.908	68.065	48.405	0.00	0.00
ATOM	21928	OG1	THR	1464	67.326	69.565	50.853	0.00	0.00
ATOM	21929	HG1	THR	1464	66.514	70.067	50.951	0.00	0.00
ATOM	21930	C	THR	1464	68.468	67.838	47.876	0.00	0.00
ATOM	21931	O	THR	1464	68.133	68.518	46.950	0.00	0.00
ATOM	21932	N	PHE	1465	68.759	66.534	47.803	0.00	0.00
ATOM	21933	H	PHE	1465	69.110	66.048	48.616	0.00	0.00
ATOM	21934	CA	PHE	1465	68.465	65.749	46.548	0.00	0.00
ATOM	21935	HA	PHE	1465	68.730	66.367	45.691	0.00	0.00
ATOM	21936	CB	PHE	1465	69.315	64.491	46.543	0.00	0.00
ATOM	21937	HB2	PHE	1465	69.125	63.844	47.399	0.00	0.00
ATOM	21938	HB3	PHE	1465	69.071	63.980	45.612	0.00	0.00

ATOM	21939	CG	PHE	1465	70.844	64.769	46.392	0.00	0.00
ATOM	21940	CD1	PHE	1465	71.696	64.745	47.517	0.00	0.00
ATOM	21941	HD1	PHE	1465	71.272	64.640	48.505	0.00	0.00
ATOM	21942	CE1	PHE	1465	73.031	65.002	47.328	0.00	0.00
ATOM	21943	HE1	PHE	1465	73.677	64.963	48.192	0.00	0.00
ATOM	21944	CZ	PHE	1465	73.545	65.484	46.109	0.00	0.00
ATOM	21945	HZ	PHE	1465	74.581	65.785	46.053	0.00	0.00
ATOM	21946	CE2	PHE	1465	72.681	65.612	44.974	0.00	0.00
ATOM	21947	HE2	PHE	1465	73.098	65.897	44.020	0.00	0.00
ATOM	21948	CD2	PHE	1465	71.333	65.195	45.150	0.00	0.00
ATOM	21949	HD2	PHE	1465	70.687	65.067	44.294	0.00	0.00
ATOM	21950	C	PHE	1465	67.001	65.348	46.450	0.00	0.00
ATOM	21951	O	PHE	1465	66.407	64.824	47.385	0.00	0.00
ATOM	21952	N	LEU	1466	66.430	65.483	45.276	0.00	0.00
ATOM	21953	H	LEU	1466	66.962	65.956	44.560	0.00	0.00
ATOM	21954	CA	LEU	1466	65.086	65.167	44.967	0.00	0.00
ATOM	21955	HA	LEU	1466	64.696	64.520	45.753	0.00	0.00
ATOM	21956	CB	LEU	1466	64.318	66.525	44.897	0.00	0.00
ATOM	21957	HB2	LEU	1466	64.761	67.188	44.155	0.00	0.00
ATOM	21958	HB3	LEU	1466	63.333	66.221	44.544	0.00	0.00
ATOM	21959	CG	LEU	1466	64.031	67.253	46.199	0.00	0.00
ATOM	21960	HG	LEU	1466	64.988	67.445	46.683	0.00	0.00
ATOM	21961	CD1	LEU	1466	63.506	68.702	45.931	0.00	0.00
ATOM	21962	1HD1	LEU	1466	63.350	69.192	46.892	0.00	0.00
ATOM	21963	2HD1	LEU	1466	64.086	69.321	45.247	0.00	0.00
ATOM	21964	3HD1	LEU	1466	62.513	68.640	45.485	0.00	0.00



ATOM	21965	CD2	LEU	1466	63.055	66.534	47.139	0.00	0.00
ATOM	21966	1HD2	LEU	1466	63.494	65.570	47.396	0.00	0.00
ATOM	21967	2HD2	LEU	1466	62.965	67.083	48.076	0.00	0.00
ATOM	21968	3HD2	LEU	1466	62.063	66.445	46.696	0.00	0.00
ATOM	21969	C	LEU	1466	64.987	64.380	43.715	0.00	0.00
ATOM	21970	O	LEU	1466	65.848	64.342	42.869	0.00	0.00
ATOM	21971	N	SER	1467	63.755	63.836	43.501	0.00	0.00
ATOM	21972	H	SER	1467	63.084	63.807	44.256	0.00	0.00
ATOM	21973	CA	SER	1467	63.296	63.215	42.252	0.00	0.00
ATOM	21974	HA	SER	1467	64.170	62.858	41.706	0.00	0.00
ATOM	21975	CB	SER	1467	62.414	62.001	42.560	0.00	0.00
ATOM	21976	HB2	SER	1467	62.363	61.348	41.689	0.00	0.00
ATOM	21977	HB3	SER	1467	62.926	61.372	43.288	0.00	0.00
ATOM	21978	OG	SER	1467	61.179	62.518	43.074	0.00	0.00
ATOM	21979	HG	SER	1467	61.148	62.375	44.023	0.00	0.00
ATOM	21980	C	SER	1467	62.520	64.319	41.385	0.00	0.00
ATOM	21981	O	SER	1467	62.140	65.379	41.866	0.00	0.00
ATOM	21982	N	GLN	1468	62.235	63.928	40.140	0.00	0.00
ATOM	21983	H	GLN	1468	62.634	63.062	39.808	0.00	0.00
ATOM	21984	CA	GLN	1468	61.595	64.864	39.225	0.00	0.00
ATOM	21985	HA	GLN	1468	62.100	65.828	39.295	0.00	0.00
ATOM	21986	CB	GLN	1468	61.891	64.380	37.763	0.00	0.00
ATOM	21987	HB2	GLN	1468	62.978	64.305	37.727	0.00	0.00
ATOM	21988	HB3	GLN	1468	61.450	63.388	37.663	0.00	0.00
ATOM	21989	CG	GLN	1468	61.399	65.252	36.609	0.00	0.00
ATOM	21990	HG2	GLN	1468	60.327	65.119	36.466	0.00	0.00

ATOM 21991	HG3	GLN	1468	61.612	66.302	36.809	0.00	0.00
ATOM 21992	CD	GLN	1468	62.052	65.034	35.265	0.00	0.00
ATOM 21993	OE1	GLN	1468	62.914	64.190	35.099	0.00	0.00
ATOM 21994	NE2	GLN	1468	61.592	65.594	34.193	0.00	0.00
ATOM 21995	1HE2	GLN	1468	62.112	65.335	33.366	0.00	0.00
ATOM 21996	2HE2	GLN	1468	60.894	66.318	34.285	0.00	0.00
ATOM 21997	C	GLN	1468	60.118	65.112	39.369	0.00	0.00
ATOM 21998	O	GLN	1468	59.621	66.216	39.154	0.00	0.00
ATOM 21999	N	ALA	1469	59.508	64.076	39.937	0.00	0.00
ATOM 22000	H	ALA	1469	60.045	63.225	40.030	0.00	0.00
ATOM 22001	CA	ALA	1469	58.138	64.090	40.344	0.00	0.00
ATOM 22002	HA	ALA	1469	57.428	64.318	39.549	0.00	0.00
ATOM 22003	CB	ALA	1469	57.745	62.680	40.719	0.00	0.00
ATOM 22004	HB1	ALA	1469	57.838	62.033	39.847	0.00	0.00
ATOM 22005	HB2	ALA	1469	58.383	62.304	41.519	0.00	0.00
ATOM 22006	HB3	ALA	1469	56.701	62.706	41.031	0.00	0.00
ATOM 22007	C	ALA	1469	57.921	65.002	41.560	0.00	0.00
ATOM 22008	O	ALA	1469	56.974	65.769	41.658	0.00	0.00
ATOM 22009	N	ALA	1470	58.828	64.865	42.523	0.00	0.00
ATOM 22010	H	ALA	1470	59.597	64.223	42.395	0.00	0.00
ATOM 22011	CA	ALA	1470	58.975	65.779	43.712	0.00	0.00
ATOM 22012	HA	ALA	1470	58.105	65.721	44.366	0.00	0.00
ATOM 22013	CB	ALA	1470	60.167	65.227	44.567	0.00	0.00
ATOM 22014	HB1	ALA	1470	61.026	65.296	43.901	0.00	0.00
ATOM 22015	HB2	ALA	1470	60.303	65.720	45.530	0.00	0.00
ATOM 22016	HB3	ALA	1470	59.971	64.189	44.837	0.00	0.00

ATOM	22017	C	ALA	1470	59.195	67.237	43.427	0.00	0.00
ATOM	22018	O	ALA	1470	58.745	68.089	44.206	0.00	0.00
ATOM	22019	N	ALA	1471	59.918	67.501	42.318	0.00	0.00
ATOM	22020	H	ALA	1471	60.340	66.706	41.860	0.00	0.00
ATOM	22021	CA	ALA	1471	60.300	68.789	41.907	0.00	0.00
ATOM	22022	HA	ALA	1471	60.602	69.339	42.798	0.00	0.00
ATOM	22023	CB	ALA	1471	61.576	68.582	41.122	0.00	0.00
ATOM	22024	HB1	ALA	1471	61.407	68.013	40.207	0.00	0.00
ATOM	22025	HB2	ALA	1471	62.006	69.572	40.973	0.00	0.00
ATOM	22026	HB3	ALA	1471	62.318	68.064	41.730	0.00	0.00
ATOM	22027	C	ALA	1471	59.187	69.521	41.188	0.00	0.00
ATOM	22028	O	ALA	1471	59.191	70.762	41.089	0.00	0.00
ATOM	22029	N	ALA	1472	58.359	68.667	40.508	0.00	0.00
ATOM	22030	H	ALA	1472	58.527	67.675	40.585	0.00	0.00
ATOM	22031	CA	ALA	1472	57.161	69.121	39.787	0.00	0.00
ATOM	22032	HA	ALA	1472	57.188	70.010	39.156	0.00	0.00
ATOM	22033	CB	ALA	1472	56.661	67.939	38.915	0.00	0.00
ATOM	22034	HB1	ALA	1472	57.430	67.437	38.329	0.00	0.00
ATOM	22035	HB2	ALA	1472	56.176	67.100	39.414	0.00	0.00
ATOM	22036	HB3	ALA	1472	55.832	68.194	38.254	0.00	0.00
ATOM	22037	C	ALA	1472	56.010	69.380	40.725	0.00	0.00
ATOM	22038	O	ALA	1472	55.205	70.289	40.641	0.00	0.00
ATOM	22039	N	ASN	1473	55.862	68.575	41.754	0.00	0.00
ATOM	22040	H	ASN	1473	56.442	67.751	41.686	0.00	0.00
ATOM	22041	CA	ASN	1473	54.997	68.697	42.910	0.00	0.00
ATOM	22042	HA	ASN	1473	53.987	68.668	42.502	0.00	0.00

ATOM	22043	CB	ASN	1473	55.098	67.430	43.739	0.00	0.00
ATOM	22044	HB2	ASN	1473	54.994	66.564	43.086	0.00	0.00
ATOM	22045	HB3	ASN	1473	56.070	67.292	44.213	0.00	0.00
ATOM	22046	CG	ASN	1473	53.954	67.377	44.784	0.00	0.00
ATOM	22047	OD1	ASN	1473	52.958	68.071	44.678	0.00	0.00
ATOM	22048	ND2	ASN	1473	54.085	66.605	45.838	0.00	0.00
ATOM	22049	1HD2	ASN	1473	53.316	66.568	46.491	0.00	0.00
ATOM	22050	2HD2	ASN	1473	54.840	65.934	45.822	0.00	0.00
ATOM	22051	C	ASN	1473	55.280	69.936	43.703	0.00	0.00
ATOM	22052	O	ASN	1473	54.433	70.749	43.997	0.00	0.00
ATOM	22053	N	GLY	1474	56.553	70.223	44.080	0.00	0.00
ATOM	22054	H	GLY	1474	57.273	69.523	43.971	0.00	0.00
ATOM	22055	CA	GLY	1474	56.895	71.457	44.805	0.00	0.00
ATOM	22056	HA2	GLY	1474	57.821	71.843	44.378	0.00	0.00
ATOM	22057	HA3	GLY	1474	56.069	72.161	44.706	0.00	0.00
ATOM	22058	C	GLY	1474	56.986	71.133	46.320	0.00	0.00
ATOM	22059	O	GLY	1474	56.762	72.010	47.123	0.00	0.00
ATOM	22060	N	VAL	1475	57.457	69.894	46.700	0.00	0.00
ATOM	22061	H	VAL	1475	57.673	69.205	45.994	0.00	0.00
ATOM	22062	CA	VAL	1475	57.578	69.518	48.149	0.00	0.00
ATOM	22063	HA	VAL	1475	56.623	69.462	48.672	0.00	0.00
ATOM	22064	CB	VAL	1475	58.169	68.097	48.225	0.00	0.00
ATOM	22065	HB	VAL	1475	58.132	67.833	49.282	0.00	0.00
ATOM	22066	CG1	VAL	1475	57.252	67.046	47.505	0.00	0.00
ATOM	22067	1HG1	VAL	1475	57.593	66.076	47.868	0.00	0.00
ATOM	22068	2HG1	VAL	1475	56.219	67.164	47.832	0.00	0.00

ATOM	22069	3HG1	VAL	1475	57.407	67.044	46.427	0.00	0.00
ATOM	22070	CG2	VAL	1475	59.578	67.913	47.728	0.00	0.00
ATOM	22071	1HG2	VAL	1475	59.911	66.880	47.818	0.00	0.00
ATOM	22072	2HG2	VAL	1475	59.818	68.224	46.711	0.00	0.00
ATOM	22073	3HG2	VAL	1475	60.267	68.425	48.401	0.00	0.00
ATOM	22074	C	VAL	1475	58.437	70.539	48.958	0.00	0.00
ATOM	22075	O	VAL	1475	58.078	70.828	50.075	0.00	0.00
ATOM	22076	N	ALA	1476	59.480	71.215	48.343	0.00	0.00
ATOM	22077	H	ALA	1476	59.687	71.002	47.377	0.00	0.00
ATOM	22078	CA	ALA	1476	60.253	72.253	48.980	0.00	0.00
ATOM	22079	HA	ALA	1476	60.463	71.904	49.991	0.00	0.00
ATOM	22080	CB	ALA	1476	61.706	72.486	48.304	0.00	0.00
ATOM	22081	HB1	ALA	1476	61.472	72.809	47.289	0.00	0.00
ATOM	22082	HB2	ALA	1476	62.137	73.341	48.826	0.00	0.00
ATOM	22083	HB3	ALA	1476	62.331	71.597	48.388	0.00	0.00
ATOM	22084	C	ALA	1476	59.485	73.618	49.128	0.00	0.00
ATOM	22085	O	ALA	1476	59.675	74.249	50.149	0.00	0.00
ATOM	22086	N	GLU	1477	58.518	73.888	48.282	0.00	0.00
ATOM	22087	H	GLU	1477	58.407	73.190	47.561	0.00	0.00
ATOM	22088	CA	GLU	1477	57.424	74.906	48.403	0.00	0.00
ATOM	22089	HA	GLU	1477	57.918	75.779	48.830	0.00	0.00
ATOM	22090	CB	GLU	1477	56.780	75.352	47.070	0.00	0.00
ATOM	22091	HB2	GLU	1477	56.106	74.559	46.745	0.00	0.00
ATOM	22092	HB3	GLU	1477	56.134	76.230	47.108	0.00	0.00
ATOM	22093	CG	GLU	1477	57.700	75.552	45.822	0.00	0.00
ATOM	22094	HG2	GLU	1477	58.072	74.544	45.639	0.00	0.00

ATOM	22095	HG3	GLU	1477	57.058	75.997	45.062	0.00	0.00
ATOM	22096	CD	GLU	1477	58.908	76.474	46.160	0.00	0.00
ATOM	22097	OE1	GLU	1477	60.099	76.032	46.302	0.00	0.00
ATOM	22098	OE2	GLU	1477	58.653	77.660	46.297	0.00	0.00
ATOM	22099	C	GLU	1477	56.271	74.536	49.339	0.00	0.00
ATOM	22100	O	GLU	1477	55.962	75.314	50.251	0.00	0.00
ATOM	22101	N	ARG	1478	55.677	73.349	49.228	0.00	0.00
ATOM	22102	H	ARG	1478	55.961	72.767	48.453	0.00	0.00
ATOM	22103	CA	ARG	1478	54.651	72.792	50.139	0.00	0.00
ATOM	22104	HA	ARG	1478	53.708	73.337	50.130	0.00	0.00
ATOM	22105	CB	ARG	1478	54.278	71.352	49.688	0.00	0.00
ATOM	22106	HB2	ARG	1478	55.128	70.676	49.594	0.00	0.00
ATOM	22107	HB3	ARG	1478	53.625	71.032	50.499	0.00	0.00
ATOM	22108	CG	ARG	1478	53.544	71.423	48.287	0.00	0.00
ATOM	22109	HG2	ARG	1478	52.724	72.141	48.315	0.00	0.00
ATOM	22110	HG3	ARG	1478	54.210	71.772	47.498	0.00	0.00
ATOM	22111	CD	ARG	1478	53.054	70.101	47.730	0.00	0.00
ATOM	22112	HD2	ARG	1478	53.969	69.520	47.616	0.00	0.00
ATOM	22113	HD3	ARG	1478	52.384	69.621	48.444	0.00	0.00
ATOM	22114	NE	ARG	1478	52.249	70.383	46.506	0.00	0.00
ATOM	22115	HE	ARG	1478	52.628	70.154	45.599	0.00	0.00
ATOM	22116	CZ	ARG	1478	50.963	70.827	46.469	0.00	0.00
ATOM	22117	NH1	ARG	1478	50.275	70.932	45.383	0.00	0.00
ATOM	22118	1HH1	ARG	1478	49.299	71.084	45.594	0.00	0.00
ATOM	22119	2HH1	ARG	1478	50.672	70.663	44.495	0.00	0.00
ATOM	22120	NH2	ARG	1478	50.316	71.345	47.528	0.00	0.00

ATOM	22121	1HH2	ARG	1478	49.337	71.594	47.546	0.00	0.00
ATOM	22122	2HH2	ARG	1478	50.788	71.385	48.419	0.00	0.00
ATOM	22123	C	ARG	1478	55.054	72.812	51.558	0.00	0.00
ATOM	22124	O	ARG	1478	54.336	73.435	52.392	0.00	0.00
ATOM	22125	N	LEU	1479	56.198	72.220	51.891	0.00	0.00
ATOM	22126	H	LEU	1479	56.850	72.044	51.140	0.00	0.00
ATOM	22127	CA	LEU	1479	56.726	72.163	53.307	0.00	0.00
ATOM	22128	HA	LEU	1479	55.868	72.038	53.967	0.00	0.00
ATOM	22129	CB	LEU	1479	57.597	70.850	53.426	0.00	0.00
ATOM	22130	HB2	LEU	1479	58.523	71.070	52.896	0.00	0.00
ATOM	22131	HB3	LEU	1479	57.822	70.674	54.478	0.00	0.00
ATOM	22132	CG	LEU	1479	57.084	69.518	52.891	0.00	0.00
ATOM	22133	HG	LEU	1479	56.802	69.518	51.839	0.00	0.00
ATOM	22134	CD1	LEU	1479	58.105	68.402	52.988	0.00	0.00
ATOM	22135	1HD1	LEU	1479	57.742	67.440	52.628	0.00	0.00
ATOM	22136	2HD1	LEU	1479	58.893	68.671	52.285	0.00	0.00
ATOM	22137	3HD1	LEU	1479	58.372	68.409	54.045	0.00	0.00
ATOM	22138	CD2	LEU	1479	55.821	69.069	53.655	0.00	0.00
ATOM	22139	1HD2	LEU	1479	55.965	68.967	54.730	0.00	0.00
ATOM	22140	2HD2	LEU	1479	54.990	69.716	53.373	0.00	0.00
ATOM	22141	3HD2	LEU	1479	55.667	68.025	53.379	0.00	0.00
ATOM	22142	C	LEU	1479	57.494	73.390	53.773	0.00	0.00
ATOM	22143	O	LEU	1479	58.075	73.406	54.891	0.00	0.00
ATOM	22144	N	ASN	1480	57.564	74.406	53.001	0.00	0.00
ATOM	22145	H	ASN	1480	57.054	74.285	52.137	0.00	0.00
ATOM	22146	CA	ASN	1480	58.235	75.688	53.199	0.00	0.00

ATOM 22147	HA ASN 1480	58.297	76.128	52.204	0.00	0.00
ATOM 22148	CB ASN 1480	57.333	76.624	53.968	0.00	0.00
ATOM 22149	HB2 ASN 1480	57.352	76.266	54.997	0.00	0.00
ATOM 22150	HB3 ASN 1480	56.324	76.628	53.556	0.00	0.00
ATOM 22151	CG ASN 1480	57.735	78.105	53.971	0.00	0.00
ATOM 22152	OD1 ASN 1480	58.435	78.627	53.129	0.00	0.00
ATOM 22153	ND2 ASN 1480	57.078	78.846	54.774	0.00	0.00
ATOM 22154	1HD2 ASN 1480	57.344	79.800	54.973	0.00	0.00
ATOM 22155	2HD2 ASN 1480	56.274	78.478	55.262	0.00	0.00
ATOM 22156	C ASN 1480	59.801	75.614	53.630	0.00	0.00
ATOM 22157	O ASN 1480	60.210	76.168	54.653	0.00	0.00
ATOM 22158	N LEU 1481	60.626	74.954	52.803	0.00	0.00
ATOM 22159	H LEU 1481	60.227	74.725	51.904	0.00	0.00
ATOM 22160	CA LEU 1481	62.063	74.660	52.909	0.00	0.00
ATOM 22161	HA LEU 1481	62.197	74.607	53.990	0.00	0.00
ATOM 22162	CB LEU 1481	62.374	73.258	52.343	0.00	0.00
ATOM 22163	HB2 LEU 1481	62.346	73.400	51.262	0.00	0.00
ATOM 22164	HB3 LEU 1481	63.416	73.005	52.539	0.00	0.00
ATOM 22165	CG LEU 1481	61.518	72.049	52.776	0.00	0.00
ATOM 22166	HG LEU 1481	60.540	72.219	52.327	0.00	0.00
ATOM 22167	CD1 LEU 1481	62.034	70.714	52.289	0.00	0.00
ATOM 22168	1HD1 LEU 1481	61.364	69.905	52.579	0.00	0.00
ATOM 22169	2HD1 LEU 1481	62.177	70.731	51.209	0.00	0.00
ATOM 22170	3HD1 LEU 1481	62.962	70.379	52.752	0.00	0.00
ATOM 22171	CD2 LEU 1481	61.321	71.986	54.323	0.00	0.00
ATOM 22172	1HD2 LEU 1481	60.950	71.025	54.680	0.00	0.00



ATOM	22173	2HD2	LEU	1481	62.284	72.000	54.834	0.00	0.00
ATOM	22174	3HD2	LEU	1481	60.702	72.806	54.686	0.00	0.00
ATOM	22175	C	LEU	1481	62.917	75.798	52.265	0.00	0.00
ATOM	22176	O	LEU	1481	62.302	76.574	51.523	0.00	0.00
ATOM	22177	N	ARG	1482	64.254	75.854	52.516	0.00	0.00
ATOM	22178	H	ARG	1482	64.521	75.051	53.068	0.00	0.00
ATOM	22179	CA	ARG	1482	65.151	76.903	52.017	0.00	0.00
ATOM	22180	HA	ARG	1482	64.723	77.435	51.167	0.00	0.00
ATOM	22181	CB	ARG	1482	65.189	77.946	53.188	0.00	0.00
ATOM	22182	HB2	ARG	1482	64.158	78.298	53.160	0.00	0.00
ATOM	22183	HB3	ARG	1482	65.352	77.428	54.134	0.00	0.00
ATOM	22184	CG	ARG	1482	66.193	79.179	53.132	0.00	0.00
ATOM	22185	HG2	ARG	1482	66.286	79.691	54.090	0.00	0.00
ATOM	22186	HG3	ARG	1482	67.167	78.801	52.822	0.00	0.00
ATOM	22187	CD	ARG	1482	65.748	80.207	52.080	0.00	0.00
ATOM	22188	HD2	ARG	1482	65.605	79.799	51.079	0.00	0.00
ATOM	22189	HD3	ARG	1482	64.758	80.477	52.447	0.00	0.00
ATOM	22190	NE	ARG	1482	66.707	81.372	52.040	0.00	0.00
ATOM	22191	HE	ARG	1482	67.549	81.215	52.574	0.00	0.00
ATOM	22192	CZ	ARG	1482	66.662	82.381	51.196	0.00	0.00
ATOM	22193	NH1	ARG	1482	65.619	82.532	50.442	0.00	0.00
ATOM	22194	1HH1	ARG	1482	65.433	83.426	50.010	0.00	0.00
ATOM	22195	2HH1	ARG	1482	64.779	82.023	50.677	0.00	0.00
ATOM	22196	NH2	ARG	1482	67.688	83.074	51.000	0.00	0.00
ATOM	22197	1HH2	ARG	1482	67.604	83.744	50.248	0.00	0.00
ATOM	22198	2HH2	ARG	1482	68.496	82.718	51.491	0.00	0.00

ATOM	22199	C	ARG	1482	66.599	76.493	51.534	0.00	0.00
ATOM	22200	O	ARG	1482	67.370	77.298	50.996	0.00	0.00
ATOM	22201	N	SER	1483	66.910	75.227	51.682	0.00	0.00
ATOM	22202	H	SER	1483	66.246	74.711	52.241	0.00	0.00
ATOM	22203	CA	SER	1483	68.139	74.653	51.159	0.00	0.00
ATOM	22204	HA	SER	1483	68.810	75.321	51.698	0.00	0.00
ATOM	22205	CB	SER	1483	68.371	73.178	51.495	0.00	0.00
ATOM	22206	HB2	SER	1483	67.629	72.623	50.921	0.00	0.00
ATOM	22207	HB3	SER	1483	69.307	72.827	51.060	0.00	0.00
ATOM	22208	OG	SER	1483	68.321	72.795	52.848	0.00	0.00
ATOM	22209	HG	SER	1483	67.396	72.744	53.101	0.00	0.00
ATOM	22210	C	SER	1483	68.274	74.907	49.643	0.00	0.00
ATOM	22211	O	SER	1483	67.316	74.938	48.909	0.00	0.00
ATOM	22212	N	ALA	1484	69.528	75.003	49.119	0.00	0.00
ATOM	22213	H	ALA	1484	70.351	75.086	49.699	0.00	0.00
ATOM	22214	CA	ALA	1484	69.666	74.705	47.700	0.00	0.00
ATOM	22215	HA	ALA	1484	69.039	75.386	47.125	0.00	0.00
ATOM	22216	CB	ALA	1484	71.118	74.888	47.361	0.00	0.00
ATOM	22217	HB1	ALA	1484	71.310	74.903	46.288	0.00	0.00
ATOM	22218	HB2	ALA	1484	71.402	75.922	47.553	0.00	0.00
ATOM	22219	HB3	ALA	1484	71.761	74.107	47.768	0.00	0.00
ATOM	22220	C	ALA	1484	69.172	73.228	47.497	0.00	0.00
ATOM	22221	O	ALA	1484	69.095	72.402	48.439	0.00	0.00
ATOM	22222	N	ILE	1485	68.892	72.849	46.229	0.00	0.00
ATOM	22223	H	ILE	1485	69.121	73.448	45.449	0.00	0.00
ATOM	22224	CA	ILE	1485	68.446	71.577	45.775	0.00	0.00

ATOM	22225	HA	ILE	1485	68.663	70.828	46.536	0.00	0.00
ATOM	22226	CB	ILE	1485	66.927	71.705	45.518	0.00	0.00
ATOM	22227	HB	ILE	1485	66.785	70.977	44.721	0.00	0.00
ATOM	22228	CG2	ILE	1485	66.125	71.364	46.802	0.00	0.00
ATOM	22229	1HG2	ILE	1485	65.038	71.421	46.751	0.00	0.00
ATOM	22230	2HG2	ILE	1485	66.260	70.310	47.046	0.00	0.00
ATOM	22231	3HG2	ILE	1485	66.469	72.023	47.599	0.00	0.00
ATOM	22232	CG1	ILE	1485	66.405	72.968	44.847	0.00	0.00
ATOM	22233	2HG1	ILE	1485	66.522	73.754	45.593	0.00	0.00
ATOM	22234	3HG1	ILE	1485	67.007	73.220	43.973	0.00	0.00
ATOM	22235	CD1	ILE	1485	64.934	72.927	44.459	0.00	0.00
ATOM	22236	1HD1	ILE	1485	64.579	72.025	43.960	0.00	0.00
ATOM	22237	2HD1	ILE	1485	64.286	73.101	45.318	0.00	0.00
ATOM	22238	3HD1	ILE	1485	64.894	73.785	43.788	0.00	0.00
ATOM	22239	C	ILE	1485	69.122	71.230	44.440	0.00	0.00
ATOM	22240	O	ILE	1485	69.536	72.046	43.662	0.00	0.00
ATOM	22241	N	ALA	1486	69.111	69.931	44.087	0.00	0.00
ATOM	22242	H	ALA	1486	68.923	69.159	44.711	0.00	0.00
ATOM	22243	CA	ALA	1486	69.278	69.459	42.722	0.00	0.00
ATOM	22244	HA	ALA	1486	68.813	70.171	42.040	0.00	0.00
ATOM	22245	CB	ALA	1486	70.794	69.319	42.438	0.00	0.00
ATOM	22246	HB1	ALA	1486	70.948	68.753	41.519	0.00	0.00
ATOM	22247	HB2	ALA	1486	71.287	70.290	42.395	0.00	0.00
ATOM	22248	HB3	ALA	1486	71.328	68.834	43.255	0.00	0.00
ATOM	22249	C	ALA	1486	68.570	68.087	42.559	0.00	0.00
ATOM	22250	O	ALA	1486	68.319	67.343	43.515	0.00	0.00

ATOM	22251	N	VAL	1487	68.287	67.705	41.290	0.00	0.00
ATOM	22252	H	VAL	1487	68.497	68.417	40.605	0.00	0.00
ATOM	22253	CA	VAL	1487	67.755	66.363	40.887	0.00	0.00
ATOM	22254	HA	VAL	1487	67.154	65.989	41.715	0.00	0.00
ATOM	22255	CB	VAL	1487	66.778	66.428	39.656	0.00	0.00
ATOM	22256	HB	VAL	1487	66.246	67.380	39.644	0.00	0.00
ATOM	22257	CG1	VAL	1487	67.459	66.426	38.264	0.00	0.00
ATOM	22258	1HG1	VAL	1487	68.267	65.699	38.195	0.00	0.00
ATOM	22259	2HG1	VAL	1487	66.716	66.426	37.466	0.00	0.00
ATOM	22260	3HG1	VAL	1487	67.955	67.396	38.228	0.00	0.00
ATOM	22261	CG2	VAL	1487	65.726	65.326	39.660	0.00	0.00
ATOM	22262	1HG2	VAL	1487	66.139	64.336	39.851	0.00	0.00
ATOM	22263	2HG2	VAL	1487	64.997	65.623	40.413	0.00	0.00
ATOM	22264	3HG2	VAL	1487	65.229	65.302	38.690	0.00	0.00
ATOM	22265	C	VAL	1487	68.820	65.241	40.807	0.00	0.00
ATOM	22266	O	VAL	1487	69.978	65.498	40.457	0.00	0.00
ATOM	22267	N	VAL	1488	68.458	63.999	41.110	0.00	0.00
ATOM	22268	H	VAL	1488	67.483	63.863	41.335	0.00	0.00
ATOM	22269	CA	VAL	1488	69.236	62.783	40.688	0.00	0.00
ATOM	22270	HA	VAL	1488	70.268	62.853	41.032	0.00	0.00
ATOM	22271	CB	VAL	1488	68.651	61.501	41.300	0.00	0.00
ATOM	22272	HB	VAL	1488	69.160	60.690	40.781	0.00	0.00
ATOM	22273	CG1	VAL	1488	69.140	61.506	42.749	0.00	0.00
ATOM	22274	1HG1	VAL	1488	68.756	62.392	43.256	0.00	0.00
ATOM	22275	2HG1	VAL	1488	68.681	60.689	43.306	0.00	0.00
ATOM	22276	3HG1	VAL	1488	70.224	61.573	42.838	0.00	0.00

ATOM	22277	CG2	VAL	1488	67.132	61.302	41.273	0.00	0.00
ATOM	22278	1HG2	VAL	1488	66.861	60.470	41.924	0.00	0.00
ATOM	22279	2HG2	VAL	1488	66.604	62.171	41.663	0.00	0.00
ATOM	22280	3HG2	VAL	1488	66.870	61.073	40.240	0.00	0.00
ATOM	22281	C	VAL	1488	69.333	62.569	39.192	0.00	0.00
ATOM	22282	O	VAL	1488	68.317	62.757	38.499	0.00	0.00
ATOM	22283	N	LYS	1489	70.506	62.161	38.649	0.00	0.00
ATOM	22284	H	LYS	1489	71.345	62.118	39.210	0.00	0.00
ATOM	22285	CA	LYS	1489	70.750	62.043	37.205	0.00	0.00
ATOM	22286	HA	LYS	1489	69.798	62.147	36.684	0.00	0.00
ATOM	22287	CB	LYS	1489	71.610	63.232	36.732	0.00	0.00
ATOM	22288	HB2	LYS	1489	72.444	63.349	37.424	0.00	0.00
ATOM	22289	HB3	LYS	1489	72.147	63.002	35.812	0.00	0.00
ATOM	22290	CG	LYS	1489	70.726	64.546	36.676	0.00	0.00
ATOM	22291	HG2	LYS	1489	70.145	64.641	37.593	0.00	0.00
ATOM	22292	HG3	LYS	1489	71.411	65.376	36.509	0.00	0.00
ATOM	22293	CD	LYS	1489	69.777	64.623	35.391	0.00	0.00
ATOM	22294	HD2	LYS	1489	70.235	64.299	34.457	0.00	0.00
ATOM	22295	HD3	LYS	1489	68.930	63.953	35.544	0.00	0.00
ATOM	22296	CE	LYS	1489	69.134	65.978	35.089	0.00	0.00
ATOM	22297	HE2	LYS	1489	68.569	66.344	35.946	0.00	0.00
ATOM	22298	HE3	LYS	1489	69.887	66.723	34.829	0.00	0.00
ATOM	22299	NZ	LYS	1489	68.148	65.889	33.960	0.00	0.00
ATOM	22300	HZ1	LYS	1489	68.568	65.546	33.108	0.00	0.00
ATOM	22301	HZ2	LYS	1489	67.300	65.372	34.145	0.00	0.00
ATOM	22302	HZ3	LYS	1489	67.832	66.830	33.774	0.00	0.00

ATOM	22303	C	LYS	1489	71.389	60.676	36.927	0.00	0.00
ATOM	22304	O	LYS	1489	72.376	60.417	37.687	0.00	0.00
ATOM	22305	N	GLY	1490	70.908	59.745	36.112	0.00	0.00
ATOM	22306	H	GLY	1490	70.135	60.026	35.527	0.00	0.00
ATOM	22307	CA	GLY	1490	71.694	58.515	35.681	0.00	0.00
ATOM	22308	HA2	GLY	1490	71.414	58.432	34.631	0.00	0.00
ATOM	22309	HA3	GLY	1490	72.770	58.688	35.718	0.00	0.00
ATOM	22310	C	GLY	1490	71.331	57.239	36.405	0.00	0.00
ATOM	22311	O	GLY	1490	71.904	56.183	36.119	0.00	0.00
ATOM	22312	N	CYS	1491	70.326	57.300	37.355	0.00	0.00
ATOM	22313	H	CYS	1491	70.064	58.188	37.758	0.00	0.00
ATOM	22314	CA	CYS	1491	70.042	56.150	38.318	0.00	0.00
ATOM	22315	HA	CYS	1491	70.886	56.013	38.994	0.00	0.00
ATOM	22316	CB	CYS	1491	68.810	56.537	39.260	0.00	0.00
ATOM	22317	HB2	CYS	1491	68.146	57.193	38.698	0.00	0.00
ATOM	22318	HB3	CYS	1491	68.332	55.621	39.608	0.00	0.00
ATOM	22319	SG	CYS	1491	69.447	57.485	40.703	0.00	0.00
ATOM	22320	HG	CYS	1491	69.042	58.632	40.150	0.00	0.00
ATOM	22321	C	CYS	1491	69.720	54.818	37.583	0.00	0.00
ATOM	22322	O	CYS	1491	69.612	53.786	38.220	0.00	0.00
ATOM	22323	N	ARG	1492	69.385	54.826	36.287	0.00	0.00
ATOM	22324	H	ARG	1492	69.478	55.726	35.838	0.00	0.00
ATOM	22325	CA	ARG	1492	69.095	53.615	35.439	0.00	0.00
ATOM	22326	HA	ARG	1492	69.038	52.812	36.173	0.00	0.00
ATOM	22327	CB	ARG	1492	67.733	53.765	34.710	0.00	0.00
ATOM	22328	HB2	ARG	1492	67.777	54.597	34.008	0.00	0.00

ATOM	22329	HB3	ARG	1492	67.558	52.907	34.062	0.00	0.00
ATOM	22330	CG	ARG	1492	66.553	53.725	35.697	0.00	0.00
ATOM	22331	HG2	ARG	1492	66.659	54.501	36.456	0.00	0.00
ATOM	22332	HG3	ARG	1492	65.719	54.073	35.088	0.00	0.00
ATOM	22333	CD	ARG	1492	66.334	52.460	36.445	0.00	0.00
ATOM	22334	HD2	ARG	1492	65.262	52.403	36.637	0.00	0.00
ATOM	22335	HD3	ARG	1492	66.481	51.603	35.788	0.00	0.00
ATOM	22336	NE	ARG	1492	67.157	52.413	37.659	0.00	0.00
ATOM	22337	HE	ARG	1492	67.698	53.204	37.975	0.00	0.00
ATOM	22338	CZ	ARG	1492	67.303	51.390	38.481	0.00	0.00
ATOM	22339	NH1	ARG	1492	66.567	50.325	38.409	0.00	0.00
ATOM	22340	1HH1	ARG	1492	66.731	49.508	38.978	0.00	0.00
ATOM	22341	2HH1	ARG	1492	65.879	50.335	37.669	0.00	0.00
ATOM	22342	NH2	ARG	1492	68.170	51.458	39.412	0.00	0.00
ATOM	22343	1HH2	ARG	1492	68.269	50.718	40.093	0.00	0.00
ATOM	22344	2HH2	ARG	1492	68.761	52.275	39.461	0.00	0.00
ATOM	22345	C	ARG	1492	70.272	53.324	34.459	0.00	0.00
ATOM	22346	O	ARG	1492	70.563	52.187	34.178	0.00	0.00
ATOM	22347	N	THR	1493	71.018	54.334	33.946	0.00	0.00
ATOM	22348	H	THR	1493	70.567	55.206	34.185	0.00	0.00
ATOM	22349	CA	THR	1493	72.105	54.073	33.005	0.00	0.00
ATOM	22350	HA	THR	1493	71.884	53.208	32.380	0.00	0.00
ATOM	22351	CB	THR	1493	72.387	55.263	32.078	0.00	0.00
ATOM	22352	HB	THR	1493	73.144	54.987	31.344	0.00	0.00
ATOM	22353	CG2	THR	1493	71.186	55.566	31.219	0.00	0.00
ATOM	22354	1HG2	THR	1493	70.311	55.719	31.851	0.00	0.00

ATOM	22355	2HG2	THR	1493	71.523	56.449	30.677	0.00	0.00
ATOM	22356	3HG2	THR	1493	70.916	54.781	30.512	0.00	0.00
ATOM	22357	OG1	THR	1493	72.831	56.391	32.806	0.00	0.00
ATOM	22358	HG1	THR	1493	72.770	57.205	32.301	0.00	0.00
ATOM	22359	C	THR	1493	73.420	53.533	33.646	0.00	0.00
ATOM	22360	O	THR	1493	74.346	53.057	32.876	0.00	0.00
ATOM	22361	N	VAL	1494	73.568	53.535	34.961	0.00	0.00
ATOM	22362	H	VAL	1494	72.808	53.772	35.582	0.00	0.00
ATOM	22363	CA	VAL	1494	74.760	53.064	35.662	0.00	0.00
ATOM	22364	HA	VAL	1494	75.649	53.481	35.189	0.00	0.00
ATOM	22365	CB	VAL	1494	74.814	53.614	37.117	0.00	0.00
ATOM	22366	HB	VAL	1494	75.003	54.678	36.973	0.00	0.00
ATOM	22367	CG1	VAL	1494	73.509	53.499	37.818	0.00	0.00
ATOM	22368	1HG1	VAL	1494	72.711	53.920	37.206	0.00	0.00
ATOM	22369	2HG1	VAL	1494	73.331	52.424	37.838	0.00	0.00
ATOM	22370	3HG1	VAL	1494	73.463	53.883	38.837	0.00	0.00
ATOM	22371	CG2	VAL	1494	75.828	52.975	37.976	0.00	0.00
ATOM	22372	1HG2	VAL	1494	75.884	51.887	38.018	0.00	0.00
ATOM	22373	2HG2	VAL	1494	76.766	53.222	37.479	0.00	0.00
ATOM	22374	3HG2	VAL	1494	75.784	53.360	38.995	0.00	0.00
ATOM	22375	C	VAL	1494	74.729	51.514	35.632	0.00	0.00
ATOM	22376	O	VAL	1494	73.641	50.934	35.763	0.00	0.00
ATOM	22377	N	GLN	1495	75.908	50.912	35.554	0.00	0.00
ATOM	22378	H	GLN	1495	76.748	51.471	35.499	0.00	0.00
ATOM	22379	CA	GLN	1495	76.261	49.486	35.657	0.00	0.00
ATOM	22380	HA	GLN	1495	75.464	48.884	36.094	0.00	0.00



ATOM	22381	CB	GLN	1495	76.473	49.025	34.201	0.00	0.00
ATOM	22382	HB2	GLN	1495	77.321	49.570	33.786	0.00	0.00
ATOM	22383	HB3	GLN	1495	76.682	47.958	34.114	0.00	0.00
ATOM	22384	CG	GLN	1495	75.300	49.381	33.252	0.00	0.00
ATOM	22385	HG2	GLN	1495	74.359	49.140	33.747	0.00	0.00
ATOM	22386	HG3	GLN	1495	75.273	50.440	32.997	0.00	0.00
ATOM	22387	CD	GLN	1495	75.254	48.538	31.953	0.00	0.00
ATOM	22388	OE1	GLN	1495	76.152	47.727	31.626	0.00	0.00
ATOM	22389	NE2	GLN	1495	74.194	48.800	31.137	0.00	0.00
ATOM	22390	1HE2	GLN	1495	74.190	48.361	30.227	0.00	0.00
ATOM	22391	2HE2	GLN	1495	73.561	49.551	31.374	0.00	0.00
ATOM	22392	C	GLN	1495	77.495	49.212	36.510	0.00	0.00
ATOM	22393	O	GLN	1495	78.123	50.125	37.005	0.00	0.00
ATOM	22394	N	LYS	1496	77.786	47.897	36.701	0.00	0.00
ATOM	22395	H	LYS	1496	77.057	47.274	36.385	0.00	0.00
ATOM	22396	CA	LYS	1496	78.942	47.532	37.485	0.00	0.00
ATOM	22397	HA	LYS	1496	78.873	48.039	38.448	0.00	0.00
ATOM	22398	CB	LYS	1496	78.816	46.007	37.767	0.00	0.00
ATOM	22399	HB2	LYS	1496	77.806	45.837	38.143	0.00	0.00
ATOM	22400	HB3	LYS	1496	78.860	45.509	36.799	0.00	0.00
ATOM	22401	CG	LYS	1496	79.887	45.438	38.719	0.00	0.00
ATOM	22402	HG2	LYS	1496	79.716	44.361	38.694	0.00	0.00
ATOM	22403	HG3	LYS	1496	80.848	45.674	38.262	0.00	0.00
ATOM	22404	CD	LYS	1496	79.942	46.083	40.092	0.00	0.00
ATOM	22405	HD2	LYS	1496	80.525	46.994	39.961	0.00	0.00
ATOM	22406	HD3	LYS	1496	78.955	46.376	40.451	0.00	0.00

ATOM	22407	CE	LYS	1496	80.727	45.294	41.215	0.00	0.00
ATOM	22408	HE2	LYS	1496	80.504	45.740	42.184	0.00	0.00
ATOM	22409	HE3	LYS	1496	80.475	44.236	41.139	0.00	0.00
ATOM	22410	NZ	LYS	1496	82.175	45.321	40.987	0.00	0.00
ATOM	22411	HZ1	LYS	1496	82.726	45.122	41.810	0.00	0.00
ATOM	22412	HZ2	LYS	1496	82.541	44.698	40.283	0.00	0.00
ATOM	22413	HZ3	LYS	1496	82.378	46.256	40.665	0.00	0.00
ATOM	22414	C	LYS	1496	80.294	47.921	36.868	0.00	0.00
ATOM	22415	O	LYS	1496	81.127	48.485	37.530	0.00	0.00
ATOM	22416	N	ALA	1497	80.516	47.596	35.604	0.00	0.00
ATOM	22417	H	ALA	1497	79.816	47.159	35.021	0.00	0.00
ATOM	22418	CA	ALA	1497	81.753	48.007	34.931	0.00	0.00
ATOM	22419	HA	ALA	1497	82.592	47.589	35.488	0.00	0.00
ATOM	22420	CB	ALA	1497	81.858	47.170	33.603	0.00	0.00
ATOM	22421	HB1	ALA	1497	81.857	46.098	33.800	0.00	0.00
ATOM	22422	HB2	ALA	1497	81.020	47.454	32.967	0.00	0.00
ATOM	22423	HB3	ALA	1497	82.759	47.334	33.011	0.00	0.00
ATOM	22424	C	ALA	1497	82.030	49.530	34.720	0.00	0.00
ATOM	22425	O	ALA	1497	83.033	49.846	34.076	0.00	0.00
ATOM	22426	N	ASP	1498	81.159	50.400	35.282	0.00	0.00
ATOM	22427	H	ASP	1498	80.407	50.037	35.851	0.00	0.00
ATOM	22428	CA	ASP	1498	81.399	51.888	35.374	0.00	0.00
ATOM	22429	HA	ASP	1498	82.206	52.176	34.700	0.00	0.00
ATOM	22430	CB	ASP	1498	80.031	52.558	35.073	0.00	0.00
ATOM	22431	HB2	ASP	1498	79.367	52.258	35.883	0.00	0.00
ATOM	22432	HB3	ASP	1498	80.178	53.634	35.164	0.00	0.00

ATOM	22433	CG	ASP	1498	79.334	52.270	33.807	0.00	0.00
ATOM	22434	OD1	ASP	1498	78.116	52.530	33.676	0.00	0.00
ATOM	22435	OD2	ASP	1498	80.058	51.919	32.832	0.00	0.00
ATOM	22436	C	ASP	1498	81.845	52.359	36.779	0.00	0.00
ATOM	22437	O	ASP	1498	82.327	53.453	36.926	0.00	0.00
ATOM	22438	N	MET	1499	81.688	51.482	37.818	0.00	0.00
ATOM	22439	H	MET	1499	81.334	50.549	37.663	0.00	0.00
ATOM	22440	CA	MET	1499	82.165	51.802	39.136	0.00	0.00
ATOM	22441	HA	MET	1499	81.684	52.726	39.455	0.00	0.00
ATOM	22442	CB	MET	1499	81.863	50.655	40.096	0.00	0.00
ATOM	22443	HB2	MET	1499	82.218	49.792	39.532	0.00	0.00
ATOM	22444	HB3	MET	1499	82.563	50.558	40.926	0.00	0.00
ATOM	22445	CG	MET	1499	80.380	50.465	40.445	0.00	0.00
ATOM	22446	HG2	MET	1499	79.795	50.826	39.598	0.00	0.00
ATOM	22447	HG3	MET	1499	80.196	49.409	40.640	0.00	0.00
ATOM	22448	SD	MET	1499	79.787	51.282	41.969	0.00	0.00
ATOM	22449	CE	MET	1499	79.232	52.799	41.287	0.00	0.00
ATOM	22450	HE1	MET	1499	79.998	53.543	41.066	0.00	0.00
ATOM	22451	HE2	MET	1499	78.687	52.725	40.347	0.00	0.00
ATOM	22452	HE3	MET	1499	78.614	53.226	42.077	0.00	0.00
ATOM	22453	C	MET	1499	83.655	52.038	39.118	0.00	0.00
ATOM	22454	O	MET	1499	84.446	51.091	38.929	0.00	0.00
ATOM	22455	N	VAL	1500	84.125	53.242	39.547	0.00	0.00
ATOM	22456	H	VAL	1500	83.444	53.877	39.938	0.00	0.00
ATOM	22457	CA	VAL	1500	85.430	53.757	39.201	0.00	0.00
ATOM	22458	HA	VAL	1500	85.618	53.568	38.144	0.00	0.00

ATOM	22459	CB	VAL	1500	85.498	55.266	39.424	0.00	0.00
ATOM	22460	HB	VAL	1500	85.519	55.408	40.505	0.00	0.00
ATOM	22461	CG1	VAL	1500	86.764	55.764	38.712	0.00	0.00
ATOM	22462	1HG1	VAL	1500	87.750	55.530	39.114	0.00	0.00
ATOM	22463	2HG1	VAL	1500	86.776	55.354	37.702	0.00	0.00
ATOM	22464	3HG1	VAL	1500	86.678	56.850	38.685	0.00	0.00
ATOM	22465	CG2	VAL	1500	84.342	56.125	38.922	0.00	0.00
ATOM	22466	1HG2	VAL	1500	84.232	55.849	37.873	0.00	0.00
ATOM	22467	2HG2	VAL	1500	83.451	55.962	39.528	0.00	0.00
ATOM	22468	3HG2	VAL	1500	84.470	57.178	39.170	0.00	0.00
ATOM	22469	C	VAL	1500	86.421	52.962	39.979	0.00	0.00
ATOM	22470	O	VAL	1500	86.275	52.860	41.234	0.00	0.00
ATOM	22471	N	HIE	1501	87.485	52.430	39.374	0.00	0.00
ATOM	22472	H	HIE	1501	87.710	52.805	38.463	0.00	0.00
ATOM	22473	CA	HIE	1501	88.492	51.540	39.996	0.00	0.00
ATOM	22474	HA	HIE	1501	89.067	51.032	39.222	0.00	0.00
ATOM	22475	CB	HIE	1501	89.371	52.303	40.941	0.00	0.00
ATOM	22476	HB2	HIE	1501	88.749	52.694	41.745	0.00	0.00
ATOM	22477	HB3	HIE	1501	90.098	51.579	41.310	0.00	0.00
ATOM	22478	CG	HIE	1501	90.113	53.495	40.346	0.00	0.00
ATOM	22479	ND1	HIE	1501	90.903	53.442	39.137	0.00	0.00
ATOM	22480	CE1	HIE	1501	91.245	54.733	38.831	0.00	0.00
ATOM	22481	HE1	HIE	1501	91.770	55.003	37.927	0.00	0.00
ATOM	22482	NE2	HIE	1501	90.801	55.516	39.813	0.00	0.00
ATOM	22483	HE2	HIE	1501	90.904	56.521	39.827	0.00	0.00
ATOM	22484	CD2	HIE	1501	90.113	54.814	40.781	0.00	0.00

ATOM	22485	HD2	HIE	1501	89.663	55.211	41.679	0.00	0.00
ATOM	22486	C	HIE	1501	87.897	50.306	40.808	0.00	0.00
ATOM	22487	O	HIE	1501	88.641	49.648	41.534	0.00	0.00
ATOM	22488	N	ASN	1502	86.619	49.987	40.645	0.00	0.00
ATOM	22489	H	ASN	1502	86.065	50.601	40.066	0.00	0.00
ATOM	22490	CA	ASN	1502	85.924	48.876	41.283	0.00	0.00
ATOM	22491	HA	ASN	1502	86.649	48.117	41.579	0.00	0.00
ATOM	22492	CB	ASN	1502	85.237	49.443	42.495	0.00	0.00
ATOM	22493	HB2	ASN	1502	84.690	50.288	42.076	0.00	0.00
ATOM	22494	HB3	ASN	1502	84.577	48.672	42.891	0.00	0.00
ATOM	22495	CG	ASN	1502	86.117	49.950	43.680	0.00	0.00
ATOM	22496	OD1	ASN	1502	86.280	49.355	44.702	0.00	0.00
ATOM	22497	ND2	ASN	1502	86.583	51.151	43.677	0.00	0.00
ATOM	22498	1HD2	ASN	1502	87.048	51.411	44.535	0.00	0.00
ATOM	22499	2HD2	ASN	1502	86.356	51.766	42.909	0.00	0.00
ATOM	22500	C	ASN	1502	84.955	48.158	40.343	0.00	0.00
ATOM	22501	O	ASN	1502	83.790	47.870	40.709	0.00	0.00
ATOM	22502	N	SER	1503	85.362	48.101	39.144	0.00	0.00
ATOM	22503	H	SER	1503	86.325	48.315	38.931	0.00	0.00
ATOM	22504	CA	SER	1503	84.547	47.705	38.020	0.00	0.00
ATOM	22505	HA	SER	1503	83.532	48.060	38.202	0.00	0.00
ATOM	22506	CB	SER	1503	85.024	48.488	36.749	0.00	0.00
ATOM	22507	HB2	SER	1503	84.449	48.110	35.904	0.00	0.00
ATOM	22508	HB3	SER	1503	84.740	49.529	36.896	0.00	0.00
ATOM	22509	OG	SER	1503	86.440	48.330	36.631	0.00	0.00
ATOM	22510	HG	SER	1503	86.821	49.103	36.210	0.00	0.00

ATOM	22511	C	SER	1503	84.419	46.131	37.914	0.00	0.00
ATOM	22512	O	SER	1503	83.466	45.717	37.173	0.00	0.00
ATOM	22513	N	LEU	1504	85.354	45.379	38.486	0.00	0.00
ATOM	22514	H	LEU	1504	86.084	45.874	38.979	0.00	0.00
ATOM	22515	CA	LEU	1504	85.402	43.903	38.342	0.00	0.00
ATOM	22516	HA	LEU	1504	85.778	43.700	37.339	0.00	0.00
ATOM	22517	CB	LEU	1504	86.432	43.315	39.341	0.00	0.00
ATOM	22518	HB2	LEU	1504	87.370	43.868	39.288	0.00	0.00
ATOM	22519	HB3	LEU	1504	86.133	43.531	40.367	0.00	0.00
ATOM	22520	CG	LEU	1504	86.813	41.817	39.131	0.00	0.00
ATOM	22521	HG	LEU	1504	85.851	41.344	39.331	0.00	0.00
ATOM	22522	CD1	LEU	1504	87.200	41.350	37.714	0.00	0.00
ATOM	22523	1HD1	LEU	1504	87.271	40.263	37.763	0.00	0.00
ATOM	22524	2HD1	LEU	1504	86.440	41.552	36.960	0.00	0.00
ATOM	22525	3HD1	LEU	1504	88.189	41.749	37.489	0.00	0.00
ATOM	22526	CD2	LEU	1504	87.925	41.366	40.121	0.00	0.00
ATOM	22527	1HD2	LEU	1504	87.899	41.690	41.161	0.00	0.00
ATOM	22528	2HD2	LEU	1504	88.071	40.297	39.965	0.00	0.00
ATOM	22529	3HD2	LEU	1504	88.884	41.782	39.811	0.00	0.00
ATOM	22530	C	LEU	1504	84.051	43.196	38.527	0.00	0.00
ATOM	22531	O	LEU	1504	83.487	43.322	39.671	0.00	0.00
ATOM	22532	N	GLN	1505	83.738	42.325	37.589	0.00	0.00
ATOM	22533	H	GLN	1505	84.225	42.490	36.720	0.00	0.00
ATOM	22534	CA	GLN	1505	82.711	41.265	37.650	0.00	0.00
ATOM	22535	HA	GLN	1505	82.138	41.359	38.573	0.00	0.00
ATOM	22536	CB	GLN	1505	81.768	41.432	36.400	0.00	0.00

ATOM	22537	HB2	GLN	1505	82.364	41.560	35.496	0.00	0.00
ATOM	22538	HB3	GLN	1505	81.243	40.483	36.292	0.00	0.00
ATOM	22539	CG	GLN	1505	80.784	42.635	36.554	0.00	0.00
ATOM	22540	HG2	GLN	1505	79.932	42.368	37.179	0.00	0.00
ATOM	22541	HG3	GLN	1505	81.341	43.500	36.914	0.00	0.00
ATOM	22542	CD	GLN	1505	80.205	42.959	35.259	0.00	0.00
ATOM	22543	OE1	GLN	1505	80.685	43.819	34.534	0.00	0.00
ATOM	22544	NE2	GLN	1505	79.278	42.164	34.700	0.00	0.00
ATOM	22545	1HE2	GLN	1505	79.119	42.340	33.719	0.00	0.00
ATOM	22546	2HE2	GLN	1505	78.911	41.371	35.207	0.00	0.00
ATOM	22547	C	GLN	1505	83.470	39.988	37.736	0.00	0.00
ATOM	22548	O	GLN	1505	84.003	39.623	36.714	0.00	0.00
ATOM	22549	N	PRO	1506	83.617	39.395	38.928	0.00	0.00
ATOM	22550	CD	PRO	1506	83.068	39.857	40.240	0.00	0.00
ATOM	22551	HD2	PRO	1506	83.089	40.945	40.305	0.00	0.00
ATOM	22552	HD3	PRO	1506	81.991	39.749	40.111	0.00	0.00
ATOM	22553	CG	PRO	1506	83.628	39.060	41.345	0.00	0.00
ATOM	22554	HG2	PRO	1506	83.866	39.645	42.234	0.00	0.00
ATOM	22555	HG3	PRO	1506	83.052	38.175	41.614	0.00	0.00
ATOM	22556	CB	PRO	1506	84.964	38.641	40.729	0.00	0.00
ATOM	22557	HB2	PRO	1506	85.642	39.475	40.914	0.00	0.00
ATOM	22558	HB3	PRO	1506	85.472	37.774	41.151	0.00	0.00
ATOM	22559	CA	PRO	1506	84.727	38.540	39.230	0.00	0.00
ATOM	22560	HA	PRO	1506	85.590	38.827	38.630	0.00	0.00
ATOM	22561	C	PRO	1506	84.294	37.039	38.851	0.00	0.00
ATOM	22562	O	PRO	1506	83.072	36.691	38.985	0.00	0.00

ATOM	22563	N	ASN	1507	85.180	36.181	38.373	0.00	0.00
ATOM	22564	H	ASN	1507	86.086	36.568	38.152	0.00	0.00
ATOM	22565	CA	ASN	1507	84.874	34.714	38.228	0.00	0.00
ATOM	22566	HA	ASN	1507	83.982	34.561	37.620	0.00	0.00
ATOM	22567	CB	ASN	1507	86.016	34.102	37.375	0.00	0.00
ATOM	22568	HB2	ASN	1507	86.162	34.602	36.417	0.00	0.00
ATOM	22569	HB3	ASN	1507	87.000	34.241	37.821	0.00	0.00
ATOM	22570	CG	ASN	1507	85.808	32.626	37.003	0.00	0.00
ATOM	22571	OD1	ASN	1507	84.669	32.144	36.922	0.00	0.00
ATOM	22572	ND2	ASN	1507	86.902	31.965	36.735	0.00	0.00
ATOM	22573	1HD2	ASN	1507	86.809	31.007	36.427	0.00	0.00
ATOM	22574	2HD2	ASN	1507	87.821	32.383	36.759	0.00	0.00
ATOM	22575	C	ASN	1507	84.772	34.043	39.585	0.00	0.00
ATOM	22576	O	ASN	1507	85.774	33.756	40.216	0.00	0.00
ATOM	22577	N	ILE	1508	83.562	33.900	40.154	0.00	0.00
ATOM	22578	H	ILE	1508	82.774	34.273	39.643	0.00	0.00
ATOM	22579	CA	ILE	1508	83.241	33.720	41.625	0.00	0.00
ATOM	22580	HA	ILE	1508	84.100	33.376	42.202	0.00	0.00
ATOM	22581	CB	ILE	1508	82.845	35.125	42.210	0.00	0.00
ATOM	22582	HB	ILE	1508	83.597	35.888	42.005	0.00	0.00
ATOM	22583	CG2	ILE	1508	81.479	35.549	41.635	0.00	0.00
ATOM	22584	1HG2	ILE	1508	81.472	35.559	40.545	0.00	0.00
ATOM	22585	2HG2	ILE	1508	80.643	34.932	41.963	0.00	0.00
ATOM	22586	3HG2	ILE	1508	81.317	36.548	42.040	0.00	0.00
ATOM	22587	CG1	ILE	1508	82.800	34.873	43.724	0.00	0.00
ATOM	22588	2HG1	ILE	1508	82.009	34.152	43.932	0.00	0.00



ATOM	22589	3HG1	ILE	1508	83.660	34.378	44.176	0.00	0.00
ATOM	22590	CD1	ILE	1508	82.559	36.148	44.633	0.00	0.00
ATOM	22591	1HD1	ILE	1508	83.467	36.738	44.507	0.00	0.00
ATOM	22592	2HD1	ILE	1508	81.730	36.758	44.276	0.00	0.00
ATOM	22593	3HD1	ILE	1508	82.468	35.902	45.691	0.00	0.00
ATOM	22594	C	ILE	1508	82.228	32.591	41.964	0.00	0.00
ATOM	22595	O	ILE	1508	81.120	32.493	41.453	0.00	0.00
ATOM	22596	N	THR	1509	82.543	31.678	42.924	0.00	0.00
ATOM	22597	H	THR	1509	83.448	31.732	43.370	0.00	0.00
ATOM	22598	CA	THR	1509	81.579	30.638	43.449	0.00	0.00
ATOM	22599	HA	THR	1509	80.639	31.157	43.260	0.00	0.00
ATOM	22600	CB	THR	1509	81.671	29.334	42.620	0.00	0.00
ATOM	22601	HB	THR	1509	81.587	29.473	41.543	0.00	0.00
ATOM	22602	CG2	THR	1509	82.921	28.558	42.897	0.00	0.00
ATOM	22603	1HG2	THR	1509	83.790	29.174	42.666	0.00	0.00
ATOM	22604	2HG2	THR	1509	82.896	28.233	43.937	0.00	0.00
ATOM	22605	3HG2	THR	1509	82.932	27.677	42.254	0.00	0.00
ATOM	22606	OG1	THR	1509	80.589	28.457	42.931	0.00	0.00
ATOM	22607	HG1	THR	1509	80.396	27.986	42.117	0.00	0.00
ATOM	22608	C	THR	1509	81.665	30.275	44.957	0.00	0.00
ATOM	22609	O	THR	1509	82.638	30.560	45.584	0.00	0.00
ATOM	22610	N	VAL	1510	80.587	29.582	45.512	0.00	0.00
ATOM	22611	H	VAL	1510	79.940	29.139	44.876	0.00	0.00
ATOM	22612	CA	VAL	1510	80.597	28.928	46.845	0.00	0.00
ATOM	22613	HA	VAL	1510	81.607	28.679	47.173	0.00	0.00
ATOM	22614	CB	VAL	1510	79.951	29.889	47.863	0.00	0.00

ATOM	22615	HB	VAL	1510	80.557	30.794	47.852	0.00	0.00
ATOM	22616	CG1	VAL	1510	78.570	30.345	47.523	0.00	0.00
ATOM	22617	1HG1	VAL	1510	77.914	29.479	47.607	0.00	0.00
ATOM	22618	2HG1	VAL	1510	78.187	31.143	48.159	0.00	0.00
ATOM	22619	3HG1	VAL	1510	78.438	30.680	46.494	0.00	0.00
ATOM	22620	CG2	VAL	1510	80.074	29.294	49.322	0.00	0.00
ATOM	22621	1HG2	VAL	1510	79.492	29.836	50.067	0.00	0.00
ATOM	22622	2HG2	VAL	1510	79.720	28.263	49.309	0.00	0.00
ATOM	22623	3HG2	VAL	1510	81.141	29.268	49.545	0.00	0.00
ATOM	22624	C	VAL	1510	79.822	27.612	46.797	0.00	0.00
ATOM	22625	O	VAL	1510	78.759	27.538	46.205	0.00	0.00
ATOM	22626	N	ASP	1511	80.410	26.600	47.380	0.00	0.00
ATOM	22627	H	ASP	1511	81.156	26.826	48.024	0.00	0.00
ATOM	22628	CA	ASP	1511	79.868	25.281	47.484	0.00	0.00
ATOM	22629	HA	ASP	1511	79.391	24.977	46.552	0.00	0.00
ATOM	22630	CB	ASP	1511	81.081	24.395	47.829	0.00	0.00
ATOM	22631	HB2	ASP	1511	81.800	24.475	47.013	0.00	0.00
ATOM	22632	HB3	ASP	1511	81.567	24.737	48.743	0.00	0.00
ATOM	22633	CG	ASP	1511	80.637	22.875	47.895	0.00	0.00
ATOM	22634	OD1	ASP	1511	80.323	22.284	46.829	0.00	0.00
ATOM	22635	OD2	ASP	1511	80.549	22.367	49.033	0.00	0.00
ATOM	22636	C	ASP	1511	78.793	25.156	48.664	0.00	0.00
ATOM	22637	O	ASP	1511	79.135	25.473	49.814	0.00	0.00
ATOM	22638	N	ALA	1512	77.612	24.603	48.359	0.00	0.00
ATOM	22639	H	ALA	1512	77.396	24.364	47.401	0.00	0.00
ATOM	22640	CA	ALA	1512	76.499	24.455	49.329	0.00	0.00

ATOM	22641	HA	ALA	1512	76.507	25.302	50.015	0.00	0.00
ATOM	22642	CB	ALA	1512	75.199	24.512	48.570	0.00	0.00
ATOM	22643	HB1	ALA	1512	75.026	23.680	47.886	0.00	0.00
ATOM	22644	HB2	ALA	1512	74.318	24.497	49.211	0.00	0.00
ATOM	22645	HB3	ALA	1512	75.125	25.441	48.005	0.00	0.00
ATOM	22646	C	ALA	1512	76.710	23.302	50.283	0.00	0.00
ATOM	22647	O	ALA	1512	75.833	23.161	51.166	0.00	0.00
ATOM	22648	N	GLN	1513	77.665	22.380	50.233	0.00	0.00
ATOM	22649	H	GLN	1513	78.221	22.280	49.395	0.00	0.00
ATOM	22650	CA	GLN	1513	77.772	21.193	51.090	0.00	0.00
ATOM	22651	HA	GLN	1513	76.879	20.942	51.663	0.00	0.00
ATOM	22652	CB	GLN	1513	78.071	20.000	50.167	0.00	0.00
ATOM	22653	HB2	GLN	1513	78.791	20.245	49.386	0.00	0.00
ATOM	22654	HB3	GLN	1513	78.616	19.326	50.829	0.00	0.00
ATOM	22655	CG	GLN	1513	76.755	19.277	49.672	0.00	0.00
ATOM	22656	HG2	GLN	1513	77.151	18.361	49.233	0.00	0.00
ATOM	22657	HG3	GLN	1513	76.146	19.060	50.550	0.00	0.00
ATOM	22658	CD	GLN	1513	75.845	20.027	48.661	0.00	0.00
ATOM	22659	OE1	GLN	1513	76.202	20.921	47.890	0.00	0.00
ATOM	22660	NE2	GLN	1513	74.591	19.700	48.646	0.00	0.00
ATOM	22661	1HE2	GLN	1513	73.908	19.988	47.960	0.00	0.00
ATOM	22662	2HE2	GLN	1513	74.269	19.012	49.311	0.00	0.00
ATOM	22663	C	GLN	1513	78.895	21.394	52.058	0.00	0.00
ATOM	22664	O	GLN	1513	78.841	20.872	53.172	0.00	0.00
ATOM	22665	N	THR	1514	80.012	21.962	51.621	0.00	0.00
ATOM	22666	H	THR	1514	80.030	22.162	50.631	0.00	0.00

ATOM	22667	CA	THR	1514	81.263	22.119	52.352	0.00	0.00
ATOM	22668	HA	THR	1514	81.201	21.430	53.194	0.00	0.00
ATOM	22669	CB	THR	1514	82.508	21.725	51.566	0.00	0.00
ATOM	22670	HB	THR	1514	83.419	21.824	52.156	0.00	0.00
ATOM	22671	CG2	THR	1514	82.445	20.270	50.987	0.00	0.00
ATOM	22672	1HG2	THR	1514	82.530	19.500	51.753	0.00	0.00
ATOM	22673	2HG2	THR	1514	81.496	20.179	50.459	0.00	0.00
ATOM	22674	3HG2	THR	1514	83.327	20.056	50.384	0.00	0.00
ATOM	22675	OG1	THR	1514	82.709	22.627	50.520	0.00	0.00
ATOM	22676	HG1	THR	1514	81.939	22.464	49.970	0.00	0.00
ATOM	22677	C	THR	1514	81.467	23.519	52.821	0.00	0.00
ATOM	22678	O	THR	1514	82.210	23.847	53.746	0.00	0.00
ATOM	22679	N	TYR	1515	80.745	24.413	52.221	0.00	0.00
ATOM	22680	H	TYR	1515	80.123	24.121	51.481	0.00	0.00
ATOM	22681	CA	TYR	1515	80.820	25.865	52.541	0.00	0.00
ATOM	22682	HA	TYR	1515	80.061	26.248	51.859	0.00	0.00
ATOM	22683	CB	TYR	1515	80.235	26.216	53.910	0.00	0.00
ATOM	22684	HB2	TYR	1515	80.999	26.178	54.687	0.00	0.00
ATOM	22685	HB3	TYR	1515	79.844	27.223	53.762	0.00	0.00
ATOM	22686	CG	TYR	1515	79.001	25.327	54.232	0.00	0.00
ATOM	22687	CD1	TYR	1515	77.751	25.506	53.672	0.00	0.00
ATOM	22688	HD1	TYR	1515	77.676	26.298	52.942	0.00	0.00
ATOM	22689	CE1	TYR	1515	76.738	24.575	53.923	0.00	0.00
ATOM	22690	HE1	TYR	1515	75.767	24.762	53.487	0.00	0.00
ATOM	22691	CZ	TYR	1515	76.976	23.513	54.836	0.00	0.00
ATOM	22692	OH	TYR	1515	75.925	22.743	55.230	0.00	0.00

ATOM	22693	HH	TYR	1515	75.085	22.915	54.798	0.00	0.00
ATOM	22694	CE2	TYR	1515	78.215	23.328	55.448	0.00	0.00
ATOM	22695	HE2	TYR	1515	78.343	22.446	56.058	0.00	0.00
ATOM	22696	CD2	TYR	1515	79.226	24.222	55.056	0.00	0.00
ATOM	22697	HD2	TYR	1515	80.247	24.111	55.389	0.00	0.00
ATOM	22698	C	TYR	1515	82.182	26.526	52.075	0.00	0.00
ATOM	22699	O	TYR	1515	82.488	27.640	52.512	0.00	0.00
ATOM	22700	N	GLU	1516	83.020	25.885	51.278	0.00	0.00
ATOM	22701	H	GLU	1516	82.918	24.893	51.118	0.00	0.00
ATOM	22702	CA	GLU	1516	84.189	26.501	50.588	0.00	0.00
ATOM	22703	HA	GLU	1516	84.955	26.737	51.327	0.00	0.00
ATOM	22704	CB	GLU	1516	84.832	25.326	49.803	0.00	0.00
ATOM	22705	HB2	GLU	1516	84.920	24.453	50.449	0.00	0.00
ATOM	22706	HB3	GLU	1516	84.166	25.017	48.998	0.00	0.00
ATOM	22707	CG	GLU	1516	86.226	25.709	49.354	0.00	0.00
ATOM	22708	HG2	GLU	1516	86.227	26.622	48.758	0.00	0.00
ATOM	22709	HG3	GLU	1516	86.838	26.020	50.200	0.00	0.00
ATOM	22710	CD	GLU	1516	86.752	24.579	48.422	0.00	0.00
ATOM	22711	OE1	GLU	1516	86.155	24.320	47.375	0.00	0.00
ATOM	22712	OE2	GLU	1516	87.809	24.000	48.700	0.00	0.00
ATOM	22713	C	GLU	1516	83.881	27.640	49.514	0.00	0.00
ATOM	22714	O	GLU	1516	83.007	27.353	48.685	0.00	0.00
ATOM	22715	N	VAL	1517	84.468	28.799	49.546	0.00	0.00
ATOM	22716	H	VAL	1517	85.283	28.812	50.143	0.00	0.00
ATOM	22717	CA	VAL	1517	84.345	29.954	48.636	0.00	0.00
ATOM	22718	HA	VAL	1517	83.413	29.868	48.078	0.00	0.00

ATOM	22719	CB	VAL	1517	84.335	31.288	49.405	0.00	0.00
ATOM	22720	HB	VAL	1517	85.278	31.538	49.891	0.00	0.00
ATOM	22721	CG1	VAL	1517	83.993	32.578	48.602	0.00	0.00
ATOM	22722	1HG1	VAL	1517	83.371	32.230	47.777	0.00	0.00
ATOM	22723	2HG1	VAL	1517	83.538	33.377	49.188	0.00	0.00
ATOM	22724	3HG1	VAL	1517	84.931	32.875	48.134	0.00	0.00
ATOM	22725	CG2	VAL	1517	83.375	31.407	50.515	0.00	0.00
ATOM	22726	1HG2	VAL	1517	82.365	31.428	50.107	0.00	0.00
ATOM	22727	2HG2	VAL	1517	83.342	30.551	51.189	0.00	0.00
ATOM	22728	3HG2	VAL	1517	83.415	32.241	51.217	0.00	0.00
ATOM	22729	C	VAL	1517	85.565	29.977	47.688	0.00	0.00
ATOM	22730	O	VAL	1517	86.689	30.049	48.184	0.00	0.00
ATOM	22731	N	ARG	1518	85.428	30.184	46.373	0.00	0.00
ATOM	22732	H	ARG	1518	84.497	30.377	46.030	0.00	0.00
ATOM	22733	CA	ARG	1518	86.560	30.423	45.440	0.00	0.00
ATOM	22734	HA	ARG	1518	87.446	30.516	46.067	0.00	0.00
ATOM	22735	CB	ARG	1518	86.831	29.075	44.688	0.00	0.00
ATOM	22736	HB2	ARG	1518	85.835	28.788	44.349	0.00	0.00
ATOM	22737	HB3	ARG	1518	87.528	29.162	43.854	0.00	0.00
ATOM	22738	CG	ARG	1518	87.345	27.931	45.531	0.00	0.00
ATOM	22739	HG2	ARG	1518	88.281	28.276	45.971	0.00	0.00
ATOM	22740	HG3	ARG	1518	86.618	27.687	46.305	0.00	0.00
ATOM	22741	CD	ARG	1518	87.529	26.693	44.769	0.00	0.00
ATOM	22742	HD2	ARG	1518	86.548	26.421	44.379	0.00	0.00
ATOM	22743	HD3	ARG	1518	88.177	26.771	43.895	0.00	0.00
ATOM	22744	NE	ARG	1518	87.944	25.538	45.584	0.00	0.00

ATOM	22745	HE	ARG	1518	87.306	24.979	46.134	0.00	0.00
ATOM	22746	CZ	ARG	1518	89.249	25.158	45.682	0.00	0.00
ATOM	22747	NH1	ARG	1518	90.275	25.714	45.107	0.00	0.00
ATOM	22748	1HH1	ARG	1518	91.187	25.386	45.391	0.00	0.00
ATOM	22749	2HH1	ARG	1518	90.197	26.387	44.358	0.00	0.00
ATOM	22750	NH2	ARG	1518	89.607	24.162	46.367	0.00	0.00
ATOM	22751	1HH2	ARG	1518	90.556	23.846	46.510	0.00	0.00
ATOM	22752	2HH2	ARG	1518	88.949	23.896	47.085	0.00	0.00
ATOM	22753	C	ARG	1518	86.326	31.628	44.556	0.00	0.00
ATOM	22754	O	ARG	1518	85.244	32.110	44.292	0.00	0.00
ATOM	22755	N	VAL	1519	87.446	32.027	44.015	0.00	0.00
ATOM	22756	H	VAL	1519	88.253	31.496	44.310	0.00	0.00
ATOM	22757	CA	VAL	1519	87.712	33.068	42.958	0.00	0.00
ATOM	22758	HA	VAL	1519	86.750	33.175	42.458	0.00	0.00
ATOM	22759	CB	VAL	1519	88.145	34.490	43.535	0.00	0.00
ATOM	22760	HB	VAL	1519	88.976	34.307	44.215	0.00	0.00
ATOM	22761	CG1	VAL	1519	88.697	35.549	42.474	0.00	0.00
ATOM	22762	1HG1	VAL	1519	89.149	36.422	42.946	0.00	0.00
ATOM	22763	2HG1	VAL	1519	89.482	35.168	41.821	0.00	0.00
ATOM	22764	3HG1	VAL	1519	87.886	35.834	41.803	0.00	0.00
ATOM	22765	CG2	VAL	1519	86.909	35.105	44.237	0.00	0.00
ATOM	22766	1HG2	VAL	1519	86.153	35.176	43.454	0.00	0.00
ATOM	22767	2HG2	VAL	1519	86.590	34.564	45.127	0.00	0.00
ATOM	22768	3HG2	VAL	1519	87.066	36.152	44.495	0.00	0.00
ATOM	22769	C	VAL	1519	88.714	32.597	41.929	0.00	0.00
ATOM	22770	O	VAL	1519	89.759	32.059	42.260	0.00	0.00

ATOM	22771	N	ASP	1520	88.497	32.653	40.648	0.00	0.00
ATOM	22772	H	ASP	1520	87.585	32.980	40.362	0.00	0.00
ATOM	22773	CA	ASP	1520	89.236	31.908	39.641	0.00	0.00
ATOM	22774	HA	ASP	1520	88.682	32.085	38.719	0.00	0.00
ATOM	22775	CB	ASP	1520	90.557	32.694	39.297	0.00	0.00
ATOM	22776	HB2	ASP	1520	90.402	33.769	39.393	0.00	0.00
ATOM	22777	HB3	ASP	1520	91.284	32.398	40.054	0.00	0.00
ATOM	22778	CG	ASP	1520	90.945	32.358	37.870	0.00	0.00
ATOM	22779	OD1	ASP	1520	92.141	31.997	37.650	0.00	0.00
ATOM	22780	OD2	ASP	1520	90.116	32.465	36.985	0.00	0.00
ATOM	22781	C	ASP	1520	89.444	30.324	39.891	0.00	0.00
ATOM	22782	O	ASP	1520	90.373	29.713	39.458	0.00	0.00
ATOM	22783	N	GLY	1521	88.554	29.752	40.781	0.00	0.00
ATOM	22784	H	GLY	1521	87.692	30.197	41.061	0.00	0.00
ATOM	22785	CA	GLY	1521	88.727	28.359	41.231	0.00	0.00
ATOM	22786	HA2	GLY	1521	87.727	27.998	41.472	0.00	0.00
ATOM	22787	HA3	GLY	1521	89.025	27.823	40.330	0.00	0.00
ATOM	22788	C	GLY	1521	89.709	28.109	42.333	0.00	0.00
ATOM	22789	O	GLY	1521	90.119	27.047	42.682	0.00	0.00
ATOM	22790	N	GLU	1522	90.193	29.197	42.971	0.00	0.00
ATOM	22791	H	GLU	1522	89.881	30.038	42.506	0.00	0.00
ATOM	22792	CA	GLU	1522	91.419	29.194	43.904	0.00	0.00
ATOM	22793	HA	GLU	1522	91.617	28.159	44.181	0.00	0.00
ATOM	22794	CB	GLU	1522	92.675	29.881	43.323	0.00	0.00
ATOM	22795	HB2	GLU	1522	93.074	29.444	42.408	0.00	0.00
ATOM	22796	HB3	GLU	1522	92.565	30.933	43.063	0.00	0.00



ATOM	22797	CG	GLU	1522	93.864	29.787	44.227	0.00	0.00
ATOM	22798	HG2	GLU	1522	94.710	30.163	43.651	0.00	0.00
ATOM	22799	HG3	GLU	1522	93.727	30.340	45.156	0.00	0.00
ATOM	22800	CD	GLU	1522	94.075	28.284	44.548	0.00	0.00
ATOM	22801	OE1	GLU	1522	94.709	27.554	43.726	0.00	0.00
ATOM	22802	OE2	GLU	1522	93.567	27.796	45.568	0.00	0.00
ATOM	22803	C	GLU	1522	90.904	29.792	45.249	0.00	0.00
ATOM	22804	O	GLU	1522	90.034	30.661	45.206	0.00	0.00
ATOM	22805	N	LEU	1523	91.587	29.474	46.445	0.00	0.00
ATOM	22806	H	LEU	1523	92.348	28.812	46.392	0.00	0.00
ATOM	22807	CA	LEU	1523	91.116	29.996	47.693	0.00	0.00
ATOM	22808	HA	LEU	1523	90.032	29.897	47.750	0.00	0.00
ATOM	22809	CB	LEU	1523	91.657	29.163	48.870	0.00	0.00
ATOM	22810	HB2	LEU	1523	92.724	29.004	48.718	0.00	0.00
ATOM	22811	HB3	LEU	1523	91.382	29.806	49.707	0.00	0.00
ATOM	22812	CG	LEU	1523	90.965	27.806	48.884	0.00	0.00
ATOM	22813	HG	LEU	1523	91.051	27.321	47.911	0.00	0.00
ATOM	22814	CD1	LEU	1523	91.738	26.828	49.824	0.00	0.00
ATOM	22815	1HD1	LEU	1523	91.468	27.123	50.838	0.00	0.00
ATOM	22816	2HD1	LEU	1523	91.318	25.824	49.760	0.00	0.00
ATOM	22817	3HD1	LEU	1523	92.812	26.846	49.640	0.00	0.00
ATOM	22818	CD2	LEU	1523	89.481	27.799	49.294	0.00	0.00
ATOM	22819	1HD2	LEU	1523	88.935	28.243	48.462	0.00	0.00
ATOM	22820	2HD2	LEU	1523	89.105	26.780	49.388	0.00	0.00
ATOM	22821	3HD2	LEU	1523	89.526	28.423	50.186	0.00	0.00
ATOM	22822	C	LEU	1523	91.538	31.449	47.822	0.00	0.00

ATOM	22823	O	LEU	1523	92.566	31.863	47.259	0.00	0.00
ATOM	22824	N	ILE	1524	90.726	32.244	48.523	0.00	0.00
ATOM	22825	H	ILE	1524	90.007	31.794	49.071	0.00	0.00
ATOM	22826	CA	ILE	1524	90.736	33.702	48.433	0.00	0.00
ATOM	22827	HA	ILE	1524	91.755	33.970	48.154	0.00	0.00
ATOM	22828	CB	ILE	1524	89.673	34.161	47.389	0.00	0.00
ATOM	22829	HB	ILE	1524	89.881	33.697	46.425	0.00	0.00
ATOM	22830	CG2	ILE	1524	88.258	33.825	47.751	0.00	0.00
ATOM	22831	1HG2	ILE	1524	87.591	33.940	46.897	0.00	0.00
ATOM	22832	2HG2	ILE	1524	88.215	32.764	47.999	0.00	0.00
ATOM	22833	3HG2	ILE	1524	87.966	34.424	48.613	0.00	0.00
ATOM	22834	CG1	ILE	1524	89.637	35.617	47.074	0.00	0.00
ATOM	22835	2HG1	ILE	1524	88.895	35.803	46.297	0.00	0.00
ATOM	22836	3HG1	ILE	1524	89.441	36.130	48.015	0.00	0.00
ATOM	22837	CD1	ILE	1524	91.007	36.223	46.639	0.00	0.00
ATOM	22838	1HD1	ILE	1524	91.583	35.498	46.063	0.00	0.00
ATOM	22839	2HD1	ILE	1524	90.689	37.101	46.078	0.00	0.00
ATOM	22840	3HD1	ILE	1524	91.503	36.496	47.571	0.00	0.00
ATOM	22841	C	ILE	1524	90.527	34.339	49.822	0.00	0.00
ATOM	22842	O	ILE	1524	91.174	35.368	50.038	0.00	0.00
ATOM	22843	N	THR	1525	89.633	33.881	50.624	0.00	0.00
ATOM	22844	H	THR	1525	89.275	32.944	50.505	0.00	0.00
ATOM	22845	CA	THR	1525	89.125	34.424	51.932	0.00	0.00
ATOM	22846	HA	THR	1525	88.614	35.364	51.723	0.00	0.00
ATOM	22847	CB	THR	1525	88.121	33.576	52.648	0.00	0.00
ATOM	22848	HB	THR	1525	87.957	33.843	53.692	0.00	0.00

ATOM	22849	CG2	THR	1525	86.812	33.649	51.888	0.00	0.00
ATOM	22850	1HG2	THR	1525	86.153	32.918	52.356	0.00	0.00
ATOM	22851	2HG2	THR	1525	86.460	34.679	51.852	0.00	0.00
ATOM	22852	3HG2	THR	1525	86.887	33.281	50.864	0.00	0.00
ATOM	22853	OG1	THR	1525	88.527	32.223	52.753	0.00	0.00
ATOM	22854	HG1	THR	1525	87.792	31.814	53.215	0.00	0.00
ATOM	22855	C	THR	1525	90.208	34.705	52.974	0.00	0.00
ATOM	22856	O	THR	1525	91.164	34.004	53.146	0.00	0.00
ATOM	22857	N	SER	1526	90.053	35.861	53.607	0.00	0.00
ATOM	22858	H	SER	1526	89.168	36.335	53.498	0.00	0.00
ATOM	22859	CA	SER	1526	90.842	36.440	54.660	0.00	0.00
ATOM	22860	HA	SER	1526	91.866	36.489	54.291	0.00	0.00
ATOM	22861	CB	SER	1526	90.414	37.865	54.982	0.00	0.00
ATOM	22862	HB2	SER	1526	89.481	37.791	55.539	0.00	0.00
ATOM	22863	HB3	SER	1526	91.162	38.326	55.628	0.00	0.00
ATOM	22864	OG	SER	1526	90.347	38.601	53.773	0.00	0.00
ATOM	22865	HG	SER	1526	89.686	39.262	53.992	0.00	0.00
ATOM	22866	C	SER	1526	90.899	35.605	55.917	0.00	0.00
ATOM	22867	O	SER	1526	89.974	34.893	56.322	0.00	0.00
ATOM	22868	N	GLU	1527	92.060	35.689	56.643	0.00	0.00
ATOM	22869	H	GLU	1527	92.849	36.244	56.343	0.00	0.00
ATOM	22870	CA	GLU	1527	92.164	35.186	58.040	0.00	0.00
ATOM	22871	HA	GLU	1527	91.649	34.225	58.056	0.00	0.00
ATOM	22872	CB	GLU	1527	93.695	34.982	58.191	0.00	0.00
ATOM	22873	HB2	GLU	1527	93.796	34.415	59.117	0.00	0.00
ATOM	22874	HB3	GLU	1527	94.135	34.272	57.490	0.00	0.00

ATOM	22875	CG	GLU	1527	94.449	36.305	58.270	0.00	0.00
ATOM	22876	HG2	GLU	1527	94.417	36.849	57.327	0.00	0.00
ATOM	22877	HG3	GLU	1527	94.177	36.918	59.129	0.00	0.00
ATOM	22878	CD	GLU	1527	95.924	35.904	58.508	0.00	0.00
ATOM	22879	OE1	GLU	1527	96.573	35.293	57.635	0.00	0.00
ATOM	22880	OE2	GLU	1527	96.507	36.265	59.563	0.00	0.00
ATOM	22881	C	GLU	1527	91.530	36.114	59.146	0.00	0.00
ATOM	22882	O	GLU	1527	91.437	37.355	58.981	0.00	0.00
ATOM	22883	N	PRO	1528	91.226	35.620	60.322	0.00	0.00
ATOM	22884	CD	PRO	1528	91.361	34.265	60.753	0.00	0.00
ATOM	22885	HD2	PRO	1528	91.084	33.466	60.065	0.00	0.00
ATOM	22886	HD3	PRO	1528	92.406	34.204	61.056	0.00	0.00
ATOM	22887	CG	PRO	1528	90.565	34.068	62.091	0.00	0.00
ATOM	22888	HG2	PRO	1528	89.570	33.716	61.819	0.00	0.00
ATOM	22889	HG3	PRO	1528	91.064	33.389	62.782	0.00	0.00
ATOM	22890	CB	PRO	1528	90.597	35.521	62.609	0.00	0.00
ATOM	22891	HB2	PRO	1528	89.695	35.860	63.118	0.00	0.00
ATOM	22892	HB3	PRO	1528	91.425	35.448	63.315	0.00	0.00
ATOM	22893	CA	PRO	1528	90.820	36.471	61.448	0.00	0.00
ATOM	22894	HA	PRO	1528	89.947	37.052	61.151	0.00	0.00
ATOM	22895	C	PRO	1528	91.899	37.481	61.733	0.00	0.00
ATOM	22896	O	PRO	1528	93.023	37.244	62.079	0.00	0.00
ATOM	22897	N	ALA	1529	91.548	38.780	61.719	0.00	0.00
ATOM	22898	H	ALA	1529	90.659	39.003	61.295	0.00	0.00
ATOM	22899	CA	ALA	1529	92.491	39.846	62.061	0.00	0.00
ATOM	22900	HA	ALA	1529	93.433	39.605	61.568	0.00	0.00

ATOM	22901	CB	ALA	1529	92.054	41.207	61.346	0.00	0.00
ATOM	22902	HB1	ALA	1529	91.365	41.747	61.996	0.00	0.00
ATOM	22903	HB2	ALA	1529	92.996	41.668	61.048	0.00	0.00
ATOM	22904	HB3	ALA	1529	91.446	41.081	60.450	0.00	0.00
ATOM	22905	C	ALA	1529	92.770	40.069	63.559	0.00	0.00
ATOM	22906	O	ALA	1529	91.793	39.951	64.376	0.00	0.00
ATOM	22907	N	ASP	1530	94.036	40.423	63.925	0.00	0.00
ATOM	22908	H	ASP	1530	94.672	40.477	63.142	0.00	0.00
ATOM	22909	CA	ASP	1530	94.552	40.364	65.267	0.00	0.00
ATOM	22910	HA	ASP	1530	93.709	40.137	65.920	0.00	0.00
ATOM	22911	CB	ASP	1530	95.486	39.179	65.358	0.00	0.00
ATOM	22912	HB2	ASP	1530	94.985	38.320	64.912	0.00	0.00
ATOM	22913	HB3	ASP	1530	96.372	39.363	64.751	0.00	0.00
ATOM	22914	CG	ASP	1530	95.823	38.833	66.788	0.00	0.00
ATOM	22915	OD1	ASP	1530	95.012	38.995	67.768	0.00	0.00
ATOM	22916	OD2	ASP	1530	96.933	38.301	66.987	0.00	0.00
ATOM	22917	C	ASP	1530	95.279	41.656	65.655	0.00	0.00
ATOM	22918	O	ASP	1530	94.913	42.195	66.660	0.00	0.00
ATOM	22919	N	VAL	1531	96.202	42.127	64.842	0.00	0.00
ATOM	22920	H	VAL	1531	96.352	41.633	63.973	0.00	0.00
ATOM	22921	CA	VAL	1531	96.865	43.386	65.081	0.00	0.00
ATOM	22922	HA	VAL	1531	96.314	43.869	65.888	0.00	0.00
ATOM	22923	CB	VAL	1531	98.358	43.277	65.358	0.00	0.00
ATOM	22924	HB	VAL	1531	98.865	44.240	65.422	0.00	0.00
ATOM	22925	CG1	VAL	1531	98.691	42.427	66.603	0.00	0.00
ATOM	22926	1HG1	VAL	1531	98.209	41.450	66.597	0.00	0.00

ATOM	22927	2HG1	VAL	1531	99.747	42.211	66.767	0.00	0.00
ATOM	22928	3HG1	VAL	1531	98.354	42.996	67.469	0.00	0.00
ATOM	22929	CG2	VAL	1531	98.994	42.562	64.166	0.00	0.00
ATOM	22930	1HG2	VAL	1531	100.074	42.462	64.271	0.00	0.00
ATOM	22931	2HG2	VAL	1531	98.527	41.581	64.076	0.00	0.00
ATOM	22932	3HG2	VAL	1531	98.763	43.087	63.239	0.00	0.00
ATOM	22933	C	VAL	1531	96.605	44.358	63.925	0.00	0.00
ATOM	22934	O	VAL	1531	96.665	43.969	62.728	0.00	0.00
ATOM	22935	N	LEU	1532	96.250	45.557	64.243	0.00	0.00
ATOM	22936	H	LEU	1532	96.140	45.734	65.231	0.00	0.00
ATOM	22937	CA	LEU	1532	96.063	46.751	63.341	0.00	0.00
ATOM	22938	HA	LEU	1532	96.696	46.500	62.490	0.00	0.00
ATOM	22939	CB	LEU	1532	94.555	46.731	62.946	0.00	0.00
ATOM	22940	HB2	LEU	1532	93.934	46.650	63.838	0.00	0.00
ATOM	22941	HB3	LEU	1532	94.266	47.688	62.510	0.00	0.00
ATOM	22942	CG	LEU	1532	94.044	45.584	61.997	0.00	0.00
ATOM	22943	HG	LEU	1532	94.247	44.617	62.457	0.00	0.00
ATOM	22944	CD1	LEU	1532	92.544	45.621	61.702	0.00	0.00
ATOM	22945	1HD1	LEU	1532	92.267	44.628	61.348	0.00	0.00
ATOM	22946	2HD1	LEU	1532	92.045	45.970	62.606	0.00	0.00
ATOM	22947	3HD1	LEU	1532	92.333	46.367	60.937	0.00	0.00
ATOM	22948	CD2	LEU	1532	94.744	45.748	60.684	0.00	0.00
ATOM	22949	1HD2	LEU	1532	95.776	45.417	60.799	0.00	0.00
ATOM	22950	2HD2	LEU	1532	94.246	45.137	59.931	0.00	0.00
ATOM	22951	3HD2	LEU	1532	94.727	46.773	60.314	0.00	0.00
ATOM	22952	C	LEU	1532	96.592	48.000	63.967	0.00	0.00

ATOM	22953	O	LEU	1532	96.781	47.986	65.213	0.00	0.00
ATOM	22954	N	PRO	1533	96.830	49.038	63.167	0.00	0.00
ATOM	22955	CD	PRO	1533	96.670	49.028	61.663	0.00	0.00
ATOM	22956	HD2	PRO	1533	95.692	49.015	61.181	0.00	0.00
ATOM	22957	HD3	PRO	1533	97.280	48.224	61.250	0.00	0.00
ATOM	22958	CG	PRO	1533	97.357	50.285	61.107	0.00	0.00
ATOM	22959	HG2	PRO	1533	98.009	50.002	60.281	0.00	0.00
ATOM	22960	HG3	PRO	1533	96.541	50.990	60.950	0.00	0.00
ATOM	22961	CB	PRO	1533	98.211	50.703	62.241	0.00	0.00
ATOM	22962	HB2	PRO	1533	99.064	50.043	62.078	0.00	0.00
ATOM	22963	HB3	PRO	1533	98.427	51.765	62.132	0.00	0.00
ATOM	22964	CA	PRO	1533	97.417	50.260	63.496	0.00	0.00
ATOM	22965	HA	PRO	1533	98.196	50.044	64.227	0.00	0.00
ATOM	22966	C	PRO	1533	96.471	51.289	63.951	0.00	0.00
ATOM	22967	O	PRO	1533	95.267	51.088	63.958	0.00	0.00
ATOM	22968	N	MET	1534	97.019	52.418	64.361	0.00	0.00
ATOM	22969	H	MET	1534	98.029	52.429	64.349	0.00	0.00
ATOM	22970	CA	MET	1534	96.379	53.665	64.753	0.00	0.00
ATOM	22971	HA	MET	1534	97.199	54.058	65.354	0.00	0.00
ATOM	22972	CB	MET	1534	96.036	54.668	63.653	0.00	0.00
ATOM	22973	HB2	MET	1534	95.526	55.488	64.159	0.00	0.00
ATOM	22974	HB3	MET	1534	96.949	55.051	63.197	0.00	0.00
ATOM	22975	CG	MET	1534	95.165	54.088	62.559	0.00	0.00
ATOM	22976	HG2	MET	1534	95.645	53.232	62.086	0.00	0.00
ATOM	22977	HG3	MET	1534	94.228	53.733	62.990	0.00	0.00
ATOM	22978	SD	MET	1534	94.847	55.299	61.295	0.00	0.00

ATOM	22979	CE	MET	1534	93.788	54.332	59.985	0.00	0.00
ATOM	22980	HE1	MET	1534	93.098	53.785	60.628	0.00	0.00
ATOM	22981	HE2	MET	1534	93.282	55.104	59.407	0.00	0.00
ATOM	22982	HE3	MET	1534	94.433	53.713	59.362	0.00	0.00
ATOM	22983	C	MET	1534	95.288	53.550	65.813	0.00	0.00
ATOM	22984	O	MET	1534	95.438	54.041	66.978	0.00	0.00
ATOM	22985	N	ALA	1535	94.055	53.065	65.513	0.00	0.00
ATOM	22986	H	ALA	1535	93.923	52.419	64.748	0.00	0.00
ATOM	22987	CA	ALA	1535	92.907	53.135	66.368	0.00	0.00
ATOM	22988	HA	ALA	1535	92.860	54.207	66.559	0.00	0.00
ATOM	22989	CB	ALA	1535	91.632	52.590	65.651	0.00	0.00
ATOM	22990	HB1	ALA	1535	91.785	51.536	65.420	0.00	0.00
ATOM	22991	HB2	ALA	1535	90.810	52.608	66.366	0.00	0.00
ATOM	22992	HB3	ALA	1535	91.276	53.162	64.794	0.00	0.00
ATOM	22993	C	ALA	1535	93.150	52.459	67.747	0.00	0.00
ATOM	22994	O	ALA	1535	92.523	52.770	68.761	0.00	0.00
ATOM	22995	N	GLN	1536	94.182	51.611	67.909	0.00	0.00
ATOM	22996	H	GLN	1536	94.769	51.314	67.142	0.00	0.00
ATOM	22997	CA	GLN	1536	94.542	51.020	69.211	0.00	0.00
ATOM	22998	HA	GLN	1536	93.637	50.612	69.662	0.00	0.00
ATOM	22999	CB	GLN	1536	95.371	49.717	69.041	0.00	0.00
ATOM	23000	HB2	GLN	1536	95.516	49.333	70.051	0.00	0.00
ATOM	23001	HB3	GLN	1536	94.729	49.056	68.459	0.00	0.00
ATOM	23002	CG	GLN	1536	96.602	49.714	68.234	0.00	0.00
ATOM	23003	HG2	GLN	1536	96.959	48.687	68.152	0.00	0.00
ATOM	23004	HG3	GLN	1536	96.336	50.103	67.251	0.00	0.00



ATOM	23005	CD	GLN	1536	97.756	50.586	68.756	0.00	0.00
ATOM	23006	OE1	GLN	1536	98.187	51.527	68.127	0.00	0.00
ATOM	23007	NE2	GLN	1536	98.228	50.275	69.922	0.00	0.00
ATOM	23008	1HE2	GLN	1536	99.027	50.764	70.299	0.00	0.00
ATOM	23009	2HE2	GLN	1536	97.836	49.546	70.500	0.00	0.00
ATOM	23010	C	GLN	1536	95.134	51.943	70.243	0.00	0.00
ATOM	23011	O	GLN	1536	95.301	51.516	71.398	0.00	0.00
ATOM	23012	N	ARG	1537	95.376	53.249	69.864	0.00	0.00
ATOM	23013	H	ARG	1537	95.285	53.493	68.888	0.00	0.00
ATOM	23014	CA	ARG	1537	96.064	54.283	70.738	0.00	0.00
ATOM	23015	HA	ARG	1537	95.641	54.182	71.737	0.00	0.00
ATOM	23016	CB	ARG	1537	97.594	54.062	70.825	0.00	0.00
ATOM	23017	HB2	ARG	1537	98.052	54.471	71.726	0.00	0.00
ATOM	23018	HB3	ARG	1537	97.797	53.000	70.965	0.00	0.00
ATOM	23019	CG	ARG	1537	98.415	54.548	69.683	0.00	0.00
ATOM	23020	HG2	ARG	1537	97.873	54.377	68.754	0.00	0.00
ATOM	23021	HG3	ARG	1537	98.359	55.635	69.631	0.00	0.00
ATOM	23022	CD	ARG	1537	99.861	54.116	69.694	0.00	0.00
ATOM	23023	HD2	ARG	1537	100.333	54.385	70.639	0.00	0.00
ATOM	23024	HD3	ARG	1537	99.822	53.033	69.584	0.00	0.00
ATOM	23025	NE	ARG	1537	100.647	54.809	68.653	0.00	0.00
ATOM	23026	HE	ARG	1537	101.327	55.485	68.970	0.00	0.00
ATOM	23027	CZ	ARG	1537	100.511	54.674	67.316	0.00	0.00
ATOM	23028	NH1	ARG	1537	99.886	53.563	66.940	0.00	0.00
ATOM	23029	1HH1	ARG	1537	99.745	53.283	65.980	0.00	0.00
ATOM	23030	2HH1	ARG	1537	99.559	52.890	67.618	0.00	0.00

ATOM	23031	NH2	ARG	1537	101.194	55.296	66.435	0.00	0.00
ATOM	23032	1HH2	ARG	1537	101.213	54.984	65.475	0.00	0.00
ATOM	23033	2HH2	ARG	1537	101.968	55.831	66.800	0.00	0.00
ATOM	23034	C	ARG	1537	95.743	55.793	70.404	0.00	0.00
ATOM	23035	O	ARG	1537	96.397	56.725	70.877	0.00	0.00
ATOM	23036	N	TYR	1538	94.745	56.054	69.552	0.00	0.00
ATOM	23037	H	TYR	1538	94.273	55.237	69.191	0.00	0.00
ATOM	23038	CA	TYR	1538	94.377	57.407	68.990	0.00	0.00
ATOM	23039	HA	TYR	1538	95.187	58.136	69.011	0.00	0.00
ATOM	23040	CB	TYR	1538	94.032	57.183	67.519	0.00	0.00
ATOM	23041	HB2	TYR	1538	93.632	56.194	67.296	0.00	0.00
ATOM	23042	HB3	TYR	1538	93.200	57.820	67.216	0.00	0.00
ATOM	23043	CG	TYR	1538	95.194	57.389	66.586	0.00	0.00
ATOM	23044	CD1	TYR	1538	96.436	56.787	66.750	0.00	0.00
ATOM	23045	HD1	TYR	1538	96.604	56.165	67.616	0.00	0.00
ATOM	23046	CE1	TYR	1538	97.490	57.163	65.918	0.00	0.00
ATOM	23047	HE1	TYR	1538	98.467	56.753	66.130	0.00	0.00
ATOM	23048	CZ	TYR	1538	97.251	58.020	64.835	0.00	0.00
ATOM	23049	OH	TYR	1538	98.277	58.348	64.049	0.00	0.00
ATOM	23050	HH	TYR	1538	97.940	58.819	63.284	0.00	0.00
ATOM	23051	CE2	TYR	1538	95.979	58.561	64.594	0.00	0.00
ATOM	23052	HE2	TYR	1538	95.881	59.181	63.715	0.00	0.00
ATOM	23053	CD2	TYR	1538	94.959	58.319	65.535	0.00	0.00
ATOM	23054	HD2	TYR	1538	93.937	58.621	65.361	0.00	0.00
ATOM	23055	C	TYR	1538	93.181	58.082	69.668	0.00	0.00
ATOM	23056	O	TYR	1538	92.791	59.215	69.366	0.00	0.00

ATOM	23057	N	PHE	1539	92.456	57.356	70.561	0.00	0.00
ATOM	23058	H	PHE	1539	92.841	56.445	70.763	0.00	0.00
ATOM	23059	CA	PHE	1539	91.178	57.753	71.131	0.00	0.00
ATOM	23060	HA	PHE	1539	90.974	58.794	70.879	0.00	0.00
ATOM	23061	CB	PHE	1539	90.166	56.899	70.522	0.00	0.00
ATOM	23062	HB2	PHE	1539	90.467	55.852	70.492	0.00	0.00
ATOM	23063	HB3	PHE	1539	89.252	57.007	71.105	0.00	0.00
ATOM	23064	CG	PHE	1539	89.661	57.386	69.144	0.00	0.00
ATOM	23065	CD1	PHE	1539	90.354	56.920	68.036	0.00	0.00
ATOM	23066	HD1	PHE	1539	91.223	56.282	68.082	0.00	0.00
ATOM	23067	CE1	PHE	1539	89.939	57.247	66.723	0.00	0.00
ATOM	23068	HE1	PHE	1539	90.536	56.992	65.860	0.00	0.00
ATOM	23069	CZ	PHE	1539	88.743	58.077	66.564	0.00	0.00
ATOM	23070	HZ	PHE	1539	88.287	58.265	65.603	0.00	0.00
ATOM	23071	CE2	PHE	1539	88.039	58.516	67.682	0.00	0.00
ATOM	23072	HE2	PHE	1539	87.124	59.074	67.550	0.00	0.00
ATOM	23073	CD2	PHE	1539	88.532	58.233	68.948	0.00	0.00
ATOM	23074	HD2	PHE	1539	87.961	58.492	69.827	0.00	0.00
ATOM	23075	C	PHE	1539	91.165	57.599	72.701	0.00	0.00
ATOM	23076	O	PHE	1539	91.666	56.576	73.219	0.00	0.00
ATOM	23077	N	LEU	1540	90.550	58.493	73.396	0.00	0.00
ATOM	23078	H	LEU	1540	90.102	59.239	72.883	0.00	0.00
ATOM	23079	CA	LEU	1540	90.366	58.445	74.865	0.00	0.00
ATOM	23080	HA	LEU	1540	91.322	58.340	75.378	0.00	0.00
ATOM	23081	CB	LEU	1540	89.843	59.840	75.371	0.00	0.00
ATOM	23082	HB2	LEU	1540	90.508	60.602	74.964	0.00	0.00

ATOM 23083	HB3 LEU	1540	88.840	59.935	74.955	0.00	0.00
ATOM 23084	CG LEU	1540	89.730	60.044	76.932	0.00	0.00
ATOM 23085	HG LEU	1540	89.183	59.196	77.346	0.00	0.00
ATOM 23086	CD1 LEU	1540	91.144	60.038	77.637	0.00	0.00
ATOM 23087	1HD1 LEU	1540	91.870	60.710	77.179	0.00	0.00
ATOM 23088	2HD1 LEU	1540	90.956	60.236	78.692	0.00	0.00
ATOM 23089	3HD1 LEU	1540	91.606	59.053	77.563	0.00	0.00
ATOM 23090	CD2 LEU	1540	88.990	61.340	77.253	0.00	0.00
ATOM 23091	1HD2 LEU	1540	88.061	61.329	76.682	0.00	0.00
ATOM 23092	2HD2 LEU	1540	88.768	61.417	78.317	0.00	0.00
ATOM 23093	3HD2 LEU	1540	89.602	62.177	76.917	0.00	0.00
ATOM 23094	C LEU	1540	89.551	57.210	75.321	0.00	0.00
ATOM 23095	O LEU	1540	89.703	56.860	76.517	0.00	0.00
ATOM 23096	N PHC	1541	88.654	56.524	74.601	0.00	0.00
ATOM 23097	H PHC	1541	88.483	56.891	73.675	0.00	0.00
ATOM 23098	CA PHC	1541	87.932	55.313	74.974	0.00	0.00
ATOM 23099	HA PHC	1541	88.591	54.747	75.633	0.00	0.00
ATOM 23100	CB PHC	1541	86.548	55.591	75.699	0.00	0.00
ATOM 23101	HB2 PHC	1541	85.766	55.974	75.043	0.00	0.00
ATOM 23102	HB3 PHC	1541	86.199	54.597	75.977	0.00	0.00
ATOM 23103	CG PHC	1541	86.585	56.406	76.888	0.00	0.00
ATOM 23104	CD1 PHC	1541	86.596	57.790	76.784	0.00	0.00
ATOM 23105	HD1 PHC	1541	86.556	58.246	75.806	0.00	0.00
ATOM 23106	CE1 PHC	1541	86.672	58.582	77.999	0.00	0.00
ATOM 23107	HE1 PHC	1541	86.886	59.629	77.840	0.00	0.00
ATOM 23108	CZ PHC	1541	86.670	57.948	79.266	0.00	0.00

ATOM	23109	HZ	PHC	1541	86.832	58.516	80.170	0.00	0.00
ATOM	23110	CE2	PHC	1541	86.699	56.519	79.321	0.00	0.00
ATOM	23111	HE2	PHC	1541	86.781	56.032	80.281	0.00	0.00
ATOM	23112	CD2	PHC	1541	86.559	55.774	78.148	0.00	0.00
ATOM	23113	HD2	PHC	1541	86.588	54.705	78.295	0.00	0.00
ATOM	23114	C	PHC	1541	87.773	54.358	73.846	0.00	0.00
ATOM	23115	O	PHC	1541	88.430	53.302	73.875	0.00	0.00
ATOM	23116	OXT	PHC	1541	86.951	54.652	72.888	0.00	0.00
ATOM	23117	O	ONB	1542	71.119	46.337	57.716	0.00	0.00
ATOM	23118	H1	ONB	1542	72.067	46.300	57.865	0.00	0.00
ATOM	23119	H1	ON1	1543	69.936	45.304	58.482	0.00	0.00
ATOM	23120	O	ON1	1543	69.298	45.384	57.700	0.00	0.00
ATOM	23121	H2	ON1	1543	69.421	46.371	57.510	0.00	0.00
ATOM	23122	H1	ON2	1544	69.821	47.929	60.146	0.00	0.00
ATOM	23123	O	ON2	1544	70.151	47.104	59.661	0.00	0.00
ATOM	23124	H2	ON2	1544	71.160	47.130	59.733	0.00	0.00
TER	0			0					
ATOM	23125	NI	NI1	1545	96.745	93.302	63.905	0.00	0.00
ATOM	23126	NI	NI2	1546	94.019	91.375	64.733	0.00	0.00
ATOM	23127	N	MEN	1547	69.652	52.888	82.864	0.00	0.00
ATOM	23128	H1	MEN	1547	70.156	52.054	82.598	0.00	0.00
ATOM	23129	H2	MEN	1547	69.148	53.178	82.039	0.00	0.00
ATOM	23130	H3	MEN	1547	68.837	52.689	83.427	0.00	0.00
ATOM	23131	CA	MEN	1547	70.486	54.063	83.399	0.00	0.00
ATOM	23132	HA	MEN	1547	70.658	53.988	84.472	0.00	0.00
ATOM	23133	CB	MEN	1547	71.825	54.291	82.791	0.00	0.00

ATOM	23134	HB2	MEN	1547	72.437	53.499	83.222	0.00	0.00
ATOM	23135	HB3	MEN	1547	71.697	54.274	81.709	0.00	0.00
ATOM	23136	CG	MEN	1547	72.574	55.580	83.104	0.00	0.00
ATOM	23137	HG2	MEN	1547	71.992	56.497	83.016	0.00	0.00
ATOM	23138	HG3	MEN	1547	72.783	55.615	84.174	0.00	0.00
ATOM	23139	SD	MEN	1547	74.300	55.803	82.483	0.00	0.00
ATOM	23140	CE	MEN	1547	75.085	54.399	83.266	0.00	0.00
ATOM	23141	HE1	MEN	1547	74.581	53.531	82.841	0.00	0.00
ATOM	23142	HE2	MEN	1547	76.166	54.447	83.139	0.00	0.00
ATOM	23143	HE3	MEN	1547	74.878	54.634	84.310	0.00	0.00
ATOM	23144	C	MEN	1547	69.679	55.329	83.296	0.00	0.00
ATOM	23145	O	MEN	1547	69.009	55.725	84.271	0.00	0.00
ATOM	23146	N	GLU	1548	69.440	55.867	82.074	0.00	0.00
ATOM	23147	H	GLU	1548	70.025	55.602	81.295	0.00	0.00
ATOM	23148	CA	GLU	1548	68.489	56.931	81.746	0.00	0.00
ATOM	23149	HA	GLU	1548	68.689	57.204	80.709	0.00	0.00
ATOM	23150	CB	GLU	1548	67.020	56.423	81.824	0.00	0.00
ATOM	23151	HB2	GLU	1548	66.785	55.959	82.782	0.00	0.00
ATOM	23152	HB3	GLU	1548	66.291	57.225	81.708	0.00	0.00
ATOM	23153	CG	GLU	1548	66.683	55.349	80.847	0.00	0.00
ATOM	23154	HG2	GLU	1548	65.597	55.276	80.904	0.00	0.00
ATOM	23155	HG3	GLU	1548	66.919	55.623	79.818	0.00	0.00
ATOM	23156	CD	GLU	1548	67.288	53.961	81.146	0.00	0.00
ATOM	23157	OE1	GLU	1548	66.910	53.365	82.168	0.00	0.00
ATOM	23158	OE2	GLU	1548	68.287	53.500	80.524	0.00	0.00
ATOM	23159	C	GLU	1548	68.601	58.307	82.530	0.00	0.00

ATOM	23160	O	GLU	1548	67.660	58.820	83.134	0.00	0.00
ATOM	23161	N	LEU	1549	69.764	59.017	82.445	0.00	0.00
ATOM	23162	H	LEU	1549	70.574	58.648	81.968	0.00	0.00
ATOM	23163	CA	LEU	1549	70.026	60.307	83.129	0.00	0.00
ATOM	23164	HA	LEU	1549	69.625	60.285	84.143	0.00	0.00
ATOM	23165	CB	LEU	1549	71.557	60.576	83.311	0.00	0.00
ATOM	23166	HB2	LEU	1549	71.950	61.035	82.403	0.00	0.00
ATOM	23167	HB3	LEU	1549	71.684	61.346	84.072	0.00	0.00
ATOM	23168	CG	LEU	1549	72.422	59.356	83.614	0.00	0.00
ATOM	23169	HG	LEU	1549	72.201	58.579	82.882	0.00	0.00
ATOM	23170	CD1	LEU	1549	73.957	59.569	83.630	0.00	0.00
ATOM	23171	1HD1	LEU	1549	74.216	59.529	82.572	0.00	0.00
ATOM	23172	2HD1	LEU	1549	74.187	60.488	84.169	0.00	0.00
ATOM	23173	3HD1	LEU	1549	74.512	58.687	83.949	0.00	0.00
ATOM	23174	CD2	LEU	1549	72.157	58.799	85.006	0.00	0.00
ATOM	23175	1HD2	LEU	1549	72.678	57.860	85.195	0.00	0.00
ATOM	23176	2HD2	LEU	1549	72.430	59.545	85.752	0.00	0.00
ATOM	23177	3HD2	LEU	1549	71.096	58.699	85.237	0.00	0.00
ATOM	23178	C	LEU	1549	69.163	61.477	82.481	0.00	0.00
ATOM	23179	O	LEU	1549	69.041	61.606	81.265	0.00	0.00
ATOM	23180	N	THR	1550	68.629	62.319	83.363	0.00	0.00
ATOM	23181	H	THR	1550	68.846	62.123	84.330	0.00	0.00
ATOM	23182	CA	THR	1550	67.904	63.527	83.049	0.00	0.00
ATOM	23183	HA	THR	1550	67.593	63.408	82.011	0.00	0.00
ATOM	23184	CB	THR	1550	66.662	63.680	84.010	0.00	0.00
ATOM	23185	HB	THR	1550	66.077	64.570	83.777	0.00	0.00

ATOM	23186	CG2	THR	1550	65.656	62.510	83.960	0.00	0.00
ATOM	23187	1HG2	THR	1550	66.223	61.579	83.930	0.00	0.00
ATOM	23188	2HG2	THR	1550	64.843	62.618	84.677	0.00	0.00
ATOM	23189	3HG2	THR	1550	65.239	62.509	82.953	0.00	0.00
ATOM	23190	OG1	THR	1550	67.090	63.927	85.310	0.00	0.00
ATOM	23191	HG1	THR	1550	67.633	63.223	85.672	0.00	0.00
ATOM	23192	C	THR	1550	68.853	64.733	83.214	0.00	0.00
ATOM	23193	O	THR	1550	69.979	64.503	83.515	0.00	0.00
ATOM	23194	N	PRO	1551	68.455	65.983	82.875	0.00	0.00
ATOM	23195	CD	PRO	1551	67.234	66.271	82.168	0.00	0.00
ATOM	23196	HD2	PRO	1551	66.563	66.461	83.007	0.00	0.00
ATOM	23197	HD3	PRO	1551	66.995	65.470	81.469	0.00	0.00
ATOM	23198	CG	PRO	1551	67.381	67.603	81.474	0.00	0.00
ATOM	23199	HG2	PRO	1551	67.710	67.253	80.496	0.00	0.00
ATOM	23200	HG3	PRO	1551	66.438	68.116	81.285	0.00	0.00
ATOM	23201	CB	PRO	1551	68.550	68.263	82.179	0.00	0.00
ATOM	23202	HB2	PRO	1551	69.135	68.818	81.445	0.00	0.00
ATOM	23203	HB3	PRO	1551	68.194	69.024	82.874	0.00	0.00
ATOM	23204	CA	PRO	1551	69.397	67.113	82.775	0.00	0.00
ATOM	23205	HA	PRO	1551	70.180	67.065	82.017	0.00	0.00
ATOM	23206	C	PRO	1551	70.030	67.496	84.090	0.00	0.00
ATOM	23207	O	PRO	1551	71.229	67.509	84.179	0.00	0.00
ATOM	23208	N	ARG	1552	69.232	67.499	85.165	0.00	0.00
ATOM	23209	H	ARG	1552	68.256	67.373	84.935	0.00	0.00
ATOM	23210	CA	ARG	1552	69.734	67.652	86.523	0.00	0.00
ATOM	23211	HA	ARG	1552	70.228	68.619	86.423	0.00	0.00



ATOM	23212	CB	ARG	1552	68.607	67.644	87.496	0.00	0.00
ATOM	23213	HB2	ARG	1552	68.972	68.250	88.326	0.00	0.00
ATOM	23214	HB3	ARG	1552	67.717	68.053	87.019	0.00	0.00
ATOM	23215	CG	ARG	1552	68.227	66.351	88.050	0.00	0.00
ATOM	23216	HG2	ARG	1552	69.101	66.005	88.603	0.00	0.00
ATOM	23217	HG3	ARG	1552	67.976	65.645	87.259	0.00	0.00
ATOM	23218	CD	ARG	1552	67.074	66.435	89.073	0.00	0.00
ATOM	23219	HD2	ARG	1552	67.226	67.287	89.736	0.00	0.00
ATOM	23220	HD3	ARG	1552	66.166	66.581	88.489	0.00	0.00
ATOM	23221	NE	ARG	1552	66.974	65.297	90.028	0.00	0.00
ATOM	23222	HE	ARG	1552	67.808	64.747	90.180	0.00	0.00
ATOM	23223	CZ	ARG	1552	65.853	64.960	90.714	0.00	0.00
ATOM	23224	NH1	ARG	1552	65.863	63.849	91.378	0.00	0.00
ATOM	23225	1HH1	ARG	1552	65.127	63.798	92.068	0.00	0.00
ATOM	23226	2HH1	ARG	1552	66.746	63.427	91.629	0.00	0.00
ATOM	23227	NH2	ARG	1552	64.782	65.740	90.884	0.00	0.00
ATOM	23228	1HH2	ARG	1552	64.002	65.466	91.465	0.00	0.00
ATOM	23229	2HH2	ARG	1552	64.847	66.708	90.604	0.00	0.00
ATOM	23230	C	ARG	1552	70.824	66.620	86.940	0.00	0.00
ATOM	23231	O	ARG	1552	71.785	67.020	87.644	0.00	0.00
ATOM	23232	N	GLU	1553	70.831	65.440	86.400	0.00	0.00
ATOM	23233	H	GLU	1553	70.029	65.070	85.910	0.00	0.00
ATOM	23234	CA	GLU	1553	71.814	64.386	86.633	0.00	0.00
ATOM	23235	HA	GLU	1553	72.040	64.406	87.699	0.00	0.00
ATOM	23236	CB	GLU	1553	71.223	62.967	86.343	0.00	0.00
ATOM	23237	HB2	GLU	1553	70.745	63.041	85.366	0.00	0.00

ATOM	23238	HB3	GLU	1553	71.902	62.115	86.386	0.00	0.00
ATOM	23239	CG	GLU	1553	70.081	62.645	87.345	0.00	0.00
ATOM	23240	HG2	GLU	1553	70.374	62.398	88.365	0.00	0.00
ATOM	23241	HG3	GLU	1553	69.429	63.512	87.455	0.00	0.00
ATOM	23242	CD	GLU	1553	69.345	61.373	86.870	0.00	0.00
ATOM	23243	OE1	GLU	1553	69.762	60.260	87.224	0.00	0.00
ATOM	23244	OE2	GLU	1553	68.390	61.600	86.076	0.00	0.00
ATOM	23245	C	GLU	1553	73.175	64.560	85.983	0.00	0.00
ATOM	23246	O	GLU	1553	74.118	63.938	86.398	0.00	0.00
ATOM	23247	N	LYS	1554	73.151	65.260	84.841	0.00	0.00
ATOM	23248	H	LYS	1554	72.283	65.729	84.625	0.00	0.00
ATOM	23249	CA	LYS	1554	74.335	65.620	84.072	0.00	0.00
ATOM	23250	HA	LYS	1554	75.186	64.960	84.240	0.00	0.00
ATOM	23251	CB	LYS	1554	73.916	65.578	82.477	0.00	0.00
ATOM	23252	HB2	LYS	1554	73.060	66.213	82.246	0.00	0.00
ATOM	23253	HB3	LYS	1554	74.655	65.870	81.731	0.00	0.00
ATOM	23254	CG	LYS	1554	73.649	64.110	82.136	0.00	0.00
ATOM	23255	HG2	LYS	1554	74.558	63.538	82.321	0.00	0.00
ATOM	23256	HG3	LYS	1554	72.915	63.719	82.840	0.00	0.00
ATOM	23257	CD	LYS	1554	73.239	63.903	80.703	0.00	0.00
ATOM	23258	HD2	LYS	1554	73.913	64.342	79.967	0.00	0.00
ATOM	23259	HD3	LYS	1554	73.340	62.862	80.396	0.00	0.00
ATOM	23260	CE	LYS	1554	71.763	64.344	80.471	0.00	0.00
ATOM	23261	HE2	LYS	1554	71.136	63.618	80.989	0.00	0.00
ATOM	23262	HE3	LYS	1554	71.648	65.331	80.920	0.00	0.00
ATOM	23263	NZ	LYS	1554	71.484	64.452	79.009	0.00	0.00

ATOM	23264	HZ1	LYS	1554	70.514	64.602	78.773	0.00	0.00
ATOM	23265	HZ2	LYS	1554	71.934	65.227	78.544	0.00	0.00
ATOM	23266	HZ3	LYS	1554	71.764	63.605	78.536	0.00	0.00
ATOM	23267	C	LYS	1554	74.810	66.987	84.415	0.00	0.00
ATOM	23268	O	LYS	1554	76.051	67.183	84.356	0.00	0.00
ATOM	23269	N	ASP	1555	74.027	67.938	84.864	0.00	0.00
ATOM	23270	H	ASP	1555	73.054	67.794	84.633	0.00	0.00
ATOM	23271	CA	ASP	1555	74.350	69.289	85.327	0.00	0.00
ATOM	23272	HA	ASP	1555	75.036	69.786	84.642	0.00	0.00
ATOM	23273	CB	ASP	1555	73.107	70.180	85.228	0.00	0.00
ATOM	23274	HB2	ASP	1555	72.411	69.907	86.021	0.00	0.00
ATOM	23275	HB3	ASP	1555	72.672	70.006	84.243	0.00	0.00
ATOM	23276	CG	ASP	1555	73.394	71.688	85.502	0.00	0.00
ATOM	23277	OD1	ASP	1555	74.501	72.167	85.137	0.00	0.00
ATOM	23278	OD2	ASP	1555	72.366	72.370	85.718	0.00	0.00
ATOM	23279	C	ASP	1555	74.917	69.297	86.720	0.00	0.00
ATOM	23280	O	ASP	1555	75.979	69.868	86.907	0.00	0.00
ATOM	23281	N	LYS	1556	74.310	68.589	87.675	0.00	0.00
ATOM	23282	H	LYS	1556	73.425	68.152	87.462	0.00	0.00
ATOM	23283	CA	LYS	1556	74.866	68.398	89.001	0.00	0.00
ATOM	23284	HA	LYS	1556	75.114	69.389	89.381	0.00	0.00
ATOM	23285	CB	LYS	1556	73.733	68.043	89.967	0.00	0.00
ATOM	23286	HB2	LYS	1556	73.218	67.136	89.652	0.00	0.00
ATOM	23287	HB3	LYS	1556	74.071	67.809	90.977	0.00	0.00
ATOM	23288	CG	LYS	1556	72.645	69.118	90.040	0.00	0.00
ATOM	23289	HG2	LYS	1556	73.039	69.976	90.586	0.00	0.00

ATOM	23290	HG3	LYS	1556	72.283	69.353	89.040	0.00	0.00
ATOM	23291	CD	LYS	1556	71.414	68.768	90.847	0.00	0.00
ATOM	23292	HD2	LYS	1556	71.056	67.853	90.376	0.00	0.00
ATOM	23293	HD3	LYS	1556	71.770	68.457	91.829	0.00	0.00
ATOM	23294	CE	LYS	1556	70.441	69.883	91.001	0.00	0.00
ATOM	23295	HE2	LYS	1556	70.998	70.770	91.304	0.00	0.00
ATOM	23296	HE3	LYS	1556	69.990	69.924	90.010	0.00	0.00
ATOM	23297	NZ	LYS	1556	69.358	69.615	91.926	0.00	0.00
ATOM	23298	HZ1	LYS	1556	68.681	70.359	92.014	0.00	0.00
ATOM	23299	HZ2	LYS	1556	68.889	68.722	91.869	0.00	0.00
ATOM	23300	HZ3	LYS	1556	69.874	69.749	92.783	0.00	0.00
ATOM	23301	C	LYS	1556	76.170	67.552	89.009	0.00	0.00
ATOM	23302	O	LYS	1556	76.884	67.529	89.991	0.00	0.00
ATOM	23303	N	LEU	1557	76.372	66.774	87.968	0.00	0.00
ATOM	23304	H	LEU	1557	75.670	66.721	87.243	0.00	0.00
ATOM	23305	CA	LEU	1557	77.634	66.026	87.745	0.00	0.00
ATOM	23306	HA	LEU	1557	78.012	65.570	88.660	0.00	0.00
ATOM	23307	CB	LEU	1557	77.351	64.782	86.911	0.00	0.00
ATOM	23308	HB2	LEU	1557	76.587	64.077	87.239	0.00	0.00
ATOM	23309	HB3	LEU	1557	76.907	65.169	85.993	0.00	0.00
ATOM	23310	CG	LEU	1557	78.526	63.900	86.515	0.00	0.00
ATOM	23311	HG	LEU	1557	79.400	64.463	86.188	0.00	0.00
ATOM	23312	CD1	LEU	1557	78.968	63.108	87.768	0.00	0.00
ATOM	23313	1HD1	LEU	1557	79.865	62.590	87.428	0.00	0.00
ATOM	23314	2HD1	LEU	1557	79.265	63.778	88.575	0.00	0.00
ATOM	23315	3HD1	LEU	1557	78.302	62.317	88.112	0.00	0.00

ATOM	23316	CD2	LEU	1557	78.151	62.814	85.490	0.00	0.00
ATOM	23317	1HD2	LEU	1557	78.947	62.071	85.550	0.00	0.00
ATOM	23318	2HD2	LEU	1557	77.143	62.430	85.644	0.00	0.00
ATOM	23319	3HD2	LEU	1557	78.136	63.263	84.497	0.00	0.00
ATOM	23320	C	LEU	1557	78.776	66.804	87.181	0.00	0.00
ATOM	23321	O	LEU	1557	79.930	66.586	87.485	0.00	0.00
ATOM	23322	N	LEU	1558	78.517	67.785	86.362	0.00	0.00
ATOM	23323	H	LEU	1558	77.606	67.857	85.933	0.00	0.00
ATOM	23324	CA	LEU	1558	79.367	68.957	86.135	0.00	0.00
ATOM	23325	HA	LEU	1558	80.303	68.481	85.844	0.00	0.00
ATOM	23326	CB	LEU	1558	78.719	69.883	85.059	0.00	0.00
ATOM	23327	HB2	LEU	1558	78.015	69.270	84.497	0.00	0.00
ATOM	23328	HB3	LEU	1558	78.002	70.565	85.516	0.00	0.00
ATOM	23329	CG	LEU	1558	79.702	70.746	84.215	0.00	0.00
ATOM	23330	HG	LEU	1558	80.564	70.164	83.891	0.00	0.00
ATOM	23331	CD1	LEU	1558	78.984	71.248	82.969	0.00	0.00
ATOM	23332	1HD1	LEU	1558	78.134	71.860	83.270	0.00	0.00
ATOM	23333	2HD1	LEU	1558	79.670	71.762	82.296	0.00	0.00
ATOM	23334	3HD1	LEU	1558	78.674	70.393	82.368	0.00	0.00
ATOM	23335	CD2	LEU	1558	80.252	71.930	85.034	0.00	0.00
ATOM	23336	1HD2	LEU	1558	80.971	71.515	85.741	0.00	0.00
ATOM	23337	2HD2	LEU	1558	80.839	72.612	84.418	0.00	0.00
ATOM	23338	3HD2	LEU	1558	79.457	72.389	85.622	0.00	0.00
ATOM	23339	C	LEU	1558	79.801	69.644	87.415	0.00	0.00
ATOM	23340	O	LEU	1558	81.023	69.887	87.646	0.00	0.00
ATOM	23341	N	LEU	1559	78.900	69.912	88.360	0.00	0.00

ATOM	23342	H	LEU	1559	77.941	69.712	88.115	0.00	0.00
ATOM	23343	CA	LEU	1559	79.240	70.624	89.635	0.00	0.00
ATOM	23344	HA	LEU	1559	79.835	71.496	89.365	0.00	0.00
ATOM	23345	CB	LEU	1559	77.970	71.056	90.353	0.00	0.00
ATOM	23346	HB2	LEU	1559	77.373	71.647	89.659	0.00	0.00
ATOM	23347	HB3	LEU	1559	77.399	70.200	90.713	0.00	0.00
ATOM	23348	CG	LEU	1559	78.297	72.019	91.515	0.00	0.00
ATOM	23349	HG	LEU	1559	78.983	71.391	92.085	0.00	0.00
ATOM	23350	CD1	LEU	1559	78.894	73.375	91.177	0.00	0.00
ATOM	23351	1HD1	LEU	1559	78.924	74.010	92.063	0.00	0.00
ATOM	23352	2HD1	LEU	1559	79.958	73.242	90.981	0.00	0.00
ATOM	23353	3HD1	LEU	1559	78.364	73.852	90.353	0.00	0.00
ATOM	23354	CD2	LEU	1559	76.931	72.298	92.251	0.00	0.00
ATOM	23355	1HD2	LEU	1559	76.454	71.398	92.639	0.00	0.00
ATOM	23356	2HD2	LEU	1559	77.128	72.822	93.186	0.00	0.00
ATOM	23357	3HD2	LEU	1559	76.175	72.774	91.627	0.00	0.00
ATOM	23358	C	LEU	1559	80.132	69.621	90.495	0.00	0.00
ATOM	23359	O	LEU	1559	81.047	70.122	91.144	0.00	0.00
ATOM	23360	N	PHE	1560	79.844	68.322	90.510	0.00	0.00
ATOM	23361	H	PHE	1560	79.080	67.930	89.979	0.00	0.00
ATOM	23362	CA	PHE	1560	80.664	67.301	91.191	0.00	0.00
ATOM	23363	HA	PHE	1560	80.720	67.434	92.272	0.00	0.00
ATOM	23364	CB	PHE	1560	80.162	65.876	90.884	0.00	0.00
ATOM	23365	HB2	PHE	1560	79.193	65.631	91.319	0.00	0.00
ATOM	23366	HB3	PHE	1560	80.065	65.757	89.804	0.00	0.00
ATOM	23367	CG	PHE	1560	81.184	64.836	91.251	0.00	0.00

ATOM	23368	CD1	PHE	1560	81.319	64.439	92.582	0.00	0.00
ATOM	23369	HD1	PHE	1560	80.621	64.857	93.292	0.00	0.00
ATOM	23370	CE1	PHE	1560	82.230	63.582	93.071	0.00	0.00
ATOM	23371	HE1	PHE	1560	82.228	63.249	94.098	0.00	0.00
ATOM	23372	CZ	PHE	1560	83.138	63.009	92.166	0.00	0.00
ATOM	23373	HZ	PHE	1560	83.880	62.260	92.401	0.00	0.00
ATOM	23374	CE2	PHE	1560	82.941	63.236	90.781	0.00	0.00
ATOM	23375	HE2	PHE	1560	83.454	62.641	90.040	0.00	0.00
ATOM	23376	CD2	PHE	1560	82.009	64.219	90.373	0.00	0.00
ATOM	23377	HD2	PHE	1560	81.770	64.432	89.341	0.00	0.00
ATOM	23378	C	PHE	1560	82.149	67.483	90.758	0.00	0.00
ATOM	23379	O	PHE	1560	83.061	67.366	91.596	0.00	0.00
ATOM	23380	N	THR	1561	82.415	67.677	89.463	0.00	0.00
ATOM	23381	H	THR	1561	81.631	67.659	88.828	0.00	0.00
ATOM	23382	CA	THR	1561	83.801	67.824	88.921	0.00	0.00
ATOM	23383	HA	THR	1561	84.489	67.081	89.323	0.00	0.00
ATOM	23384	CB	THR	1561	83.800	67.607	87.393	0.00	0.00
ATOM	23385	HB	THR	1561	84.854	67.738	87.148	0.00	0.00
ATOM	23386	CG2	THR	1561	83.544	66.146	86.932	0.00	0.00
ATOM	23387	1HG2	THR	1561	82.474	66.041	86.751	0.00	0.00
ATOM	23388	2HG2	THR	1561	83.845	65.976	85.899	0.00	0.00
ATOM	23389	3HG2	THR	1561	84.086	65.407	87.522	0.00	0.00
ATOM	23390	OG1	THR	1561	83.055	68.549	86.628	0.00	0.00
ATOM	23391	HG1	THR	1561	82.327	68.933	87.123	0.00	0.00
ATOM	23392	C	THR	1561	84.408	69.222	89.303	0.00	0.00
ATOM	23393	O	THR	1561	85.593	69.254	89.645	0.00	0.00

ATOM	23394	N	ALA	1562	83.584	70.304	89.378	0.00	0.00
ATOM	23395	H	ALA	1562	82.597	70.089	89.347	0.00	0.00
ATOM	23396	CA	ALA	1562	84.074	71.544	90.059	0.00	0.00
ATOM	23397	HA	ALA	1562	84.953	71.994	89.598	0.00	0.00
ATOM	23398	CB	ALA	1562	83.022	72.650	89.843	0.00	0.00
ATOM	23399	HB1	ALA	1562	82.171	72.429	90.487	0.00	0.00
ATOM	23400	HB2	ALA	1562	83.344	73.604	90.260	0.00	0.00
ATOM	23401	HB3	ALA	1562	82.830	72.794	88.780	0.00	0.00
ATOM	23402	C	ALA	1562	84.422	71.290	91.596	0.00	0.00
ATOM	23403	O	ALA	1562	85.456	71.730	92.060	0.00	0.00
ATOM	23404	N	ALA	1563	83.813	70.347	92.235	0.00	0.00
ATOM	23405	H	ALA	1563	83.023	69.881	91.813	0.00	0.00
ATOM	23406	CA	ALA	1563	84.104	70.050	93.681	0.00	0.00
ATOM	23407	HA	ALA	1563	84.275	71.004	94.180	0.00	0.00
ATOM	23408	CB	ALA	1563	82.805	69.349	94.176	0.00	0.00
ATOM	23409	HB1	ALA	1563	82.960	69.192	95.244	0.00	0.00
ATOM	23410	HB2	ALA	1563	81.955	69.946	93.844	0.00	0.00
ATOM	23411	HB3	ALA	1563	82.661	68.366	93.729	0.00	0.00
ATOM	23412	C	ALA	1563	85.374	69.218	93.868	0.00	0.00
ATOM	23413	O	ALA	1563	86.043	69.146	94.903	0.00	0.00
ATOM	23414	N	LEU	1564	85.707	68.481	92.785	0.00	0.00
ATOM	23415	H	LEU	1564	85.120	68.577	91.969	0.00	0.00
ATOM	23416	CA	LEU	1564	86.827	67.559	92.669	0.00	0.00
ATOM	23417	HA	LEU	1564	86.924	67.112	93.658	0.00	0.00
ATOM	23418	CB	LEU	1564	86.516	66.466	91.683	0.00	0.00
ATOM	23419	HB2	LEU	1564	85.450	66.556	91.472	0.00	0.00



ATOM	23420	HB3	LEU	1564	86.949	66.526	90.685	0.00	0.00
ATOM	23421	CG	LEU	1564	86.710	65.009	92.174	0.00	0.00
ATOM	23422	HG	LEU	1564	86.610	64.413	91.267	0.00	0.00
ATOM	23423	CD1	LEU	1564	88.178	64.823	92.654	0.00	0.00
ATOM	23424	1HD1	LEU	1564	88.417	63.769	92.512	0.00	0.00
ATOM	23425	2HD1	LEU	1564	88.893	65.313	91.994	0.00	0.00
ATOM	23426	3HD1	LEU	1564	88.289	65.144	93.689	0.00	0.00
ATOM	23427	CD2	LEU	1564	85.760	64.750	93.378	0.00	0.00
ATOM	23428	1HD2	LEU	1564	85.860	63.720	93.721	0.00	0.00
ATOM	23429	2HD2	LEU	1564	85.938	65.485	94.163	0.00	0.00
ATOM	23430	3HD2	LEU	1564	84.781	65.025	92.986	0.00	0.00
ATOM	23431	C	LEU	1564	88.156	68.302	92.428	0.00	0.00
ATOM	23432	O	LEU	1564	89.105	68.056	93.133	0.00	0.00
ATOM	23433	N	VAL	1565	88.231	69.327	91.513	0.00	0.00
ATOM	23434	H	VAL	1565	87.437	69.606	90.954	0.00	0.00
ATOM	23435	CA	VAL	1565	89.348	70.225	91.346	0.00	0.00
ATOM	23436	HA	VAL	1565	90.294	69.692	91.250	0.00	0.00
ATOM	23437	CB	VAL	1565	89.143	71.049	90.030	0.00	0.00
ATOM	23438	HB	VAL	1565	88.528	70.514	89.307	0.00	0.00
ATOM	23439	CG1	VAL	1565	88.400	72.463	90.176	0.00	0.00
ATOM	23440	1HG1	VAL	1565	89.019	73.153	90.749	0.00	0.00
ATOM	23441	2HG1	VAL	1565	88.345	72.888	89.174	0.00	0.00
ATOM	23442	3HG1	VAL	1565	87.444	72.264	90.661	0.00	0.00
ATOM	23443	CG2	VAL	1565	90.485	71.319	89.381	0.00	0.00
ATOM	23444	1HG2	VAL	1565	91.091	70.413	89.368	0.00	0.00
ATOM	23445	2HG2	VAL	1565	90.389	71.546	88.319	0.00	0.00

ATOM	23446	3HG2	VAL	1565	91.060	72.107	89.866	0.00	0.00
ATOM	23447	C	VAL	1565	89.499	71.080	92.643	0.00	0.00
ATOM	23448	O	VAL	1565	90.606	71.369	93.120	0.00	0.00
ATOM	23449	N	ALA	1566	88.387	71.481	93.283	0.00	0.00
ATOM	23450	H	ALA	1566	87.458	71.298	92.931	0.00	0.00
ATOM	23451	CA	ALA	1566	88.485	72.094	94.578	0.00	0.00
ATOM	23452	HA	ALA	1566	89.027	73.039	94.582	0.00	0.00
ATOM	23453	CB	ALA	1566	87.058	72.531	94.917	0.00	0.00
ATOM	23454	HB1	ALA	1566	86.400	71.668	95.014	0.00	0.00
ATOM	23455	HB2	ALA	1566	87.026	73.109	95.840	0.00	0.00
ATOM	23456	HB3	ALA	1566	86.694	73.238	94.172	0.00	0.00
ATOM	23457	C	ALA	1566	89.149	71.257	95.676	0.00	0.00
ATOM	23458	O	ALA	1566	90.107	71.822	96.271	0.00	0.00
ATOM	23459	N	GLU	1567	88.810	69.997	95.939	0.00	0.00
ATOM	23460	H	GLU	1567	87.920	69.591	95.688	0.00	0.00
ATOM	23461	CA	GLU	1567	89.499	69.190	96.932	0.00	0.00
ATOM	23462	HA	GLU	1567	89.507	69.831	97.813	0.00	0.00
ATOM	23463	CB	GLU	1567	88.684	68.004	97.325	0.00	0.00
ATOM	23464	HB2	GLU	1567	88.869	67.621	98.328	0.00	0.00
ATOM	23465	HB3	GLU	1567	87.651	68.350	97.368	0.00	0.00
ATOM	23466	CG	GLU	1567	88.690	66.815	96.297	0.00	0.00
ATOM	23467	HG2	GLU	1567	88.404	67.123	95.291	0.00	0.00
ATOM	23468	HG3	GLU	1567	89.701	66.412	96.250	0.00	0.00
ATOM	23469	CD	GLU	1567	87.836	65.613	96.731	0.00	0.00
ATOM	23470	OE1	GLU	1567	88.305	64.436	96.754	0.00	0.00
ATOM	23471	OE2	GLU	1567	86.789	65.827	97.358	0.00	0.00

ATOM	23472	C	GLU	1567	90.910	68.854	96.550	0.00	0.00
ATOM	23473	O	GLU	1567	91.821	68.920	97.363	0.00	0.00
ATOM	23474	N	ARG	1568	91.234	68.833	95.222	0.00	0.00
ATOM	23475	H	ARG	1568	90.520	68.907	94.512	0.00	0.00
ATOM	23476	CA	ARG	1568	92.613	68.502	94.795	0.00	0.00
ATOM	23477	HA	ARG	1568	92.953	67.598	95.300	0.00	0.00
ATOM	23478	CB	ARG	1568	92.544	68.061	93.307	0.00	0.00
ATOM	23479	HB2	ARG	1568	91.918	68.727	92.713	0.00	0.00
ATOM	23480	HB3	ARG	1568	93.541	68.143	92.873	0.00	0.00
ATOM	23481	CG	ARG	1568	92.117	66.606	93.182	0.00	0.00
ATOM	23482	HG2	ARG	1568	92.865	66.002	93.696	0.00	0.00
ATOM	23483	HG3	ARG	1568	91.212	66.431	93.762	0.00	0.00
ATOM	23484	CD	ARG	1568	91.956	66.057	91.770	0.00	0.00
ATOM	23485	HD2	ARG	1568	91.761	64.986	91.831	0.00	0.00
ATOM	23486	HD3	ARG	1568	91.071	66.500	91.314	0.00	0.00
ATOM	23487	NE	ARG	1568	93.196	66.168	90.978	0.00	0.00
ATOM	23488	HE	ARG	1568	93.356	67.100	90.622	0.00	0.00
ATOM	23489	CZ	ARG	1568	94.122	65.249	90.640	0.00	0.00
ATOM	23490	NH1	ARG	1568	94.080	64.064	91.155	0.00	0.00
ATOM	23491	1HH1	ARG	1568	94.778	63.369	90.931	0.00	0.00
ATOM	23492	2HH1	ARG	1568	93.386	63.801	91.841	0.00	0.00
ATOM	23493	NH2	ARG	1568	95.141	65.453	89.856	0.00	0.00
ATOM	23494	1HH2	ARG	1568	95.729	64.695	89.539	0.00	0.00
ATOM	23495	2HH2	ARG	1568	95.208	66.330	89.360	0.00	0.00
ATOM	23496	C	ARG	1568	93.597	69.658	94.969	0.00	0.00
ATOM	23497	O	ARG	1568	94.676	69.424	95.459	0.00	0.00

ATOM	23498	N	ARG	1569	93.089	70.848	94.737	0.00	0.00
ATOM	23499	H	ARG	1569	92.094	70.811	94.571	0.00	0.00
ATOM	23500	CA	ARG	1569	93.807	72.126	94.911	0.00	0.00
ATOM	23501	HA	ARG	1569	94.822	72.069	94.517	0.00	0.00
ATOM	23502	CB	ARG	1569	93.036	73.261	94.299	0.00	0.00
ATOM	23503	HB2	ARG	1569	91.989	73.267	94.602	0.00	0.00
ATOM	23504	HB3	ARG	1569	93.492	74.179	94.670	0.00	0.00
ATOM	23505	CG	ARG	1569	93.253	73.305	92.775	0.00	0.00
ATOM	23506	HG2	ARG	1569	94.227	73.711	92.500	0.00	0.00
ATOM	23507	HG3	ARG	1569	93.230	72.287	92.386	0.00	0.00
ATOM	23508	CD	ARG	1569	92.279	74.123	91.997	0.00	0.00
ATOM	23509	HD2	ARG	1569	91.289	73.667	92.027	0.00	0.00
ATOM	23510	HD3	ARG	1569	92.248	75.114	92.450	0.00	0.00
ATOM	23511	NE	ARG	1569	92.564	74.121	90.556	0.00	0.00
ATOM	23512	HE	ARG	1569	93.219	73.427	90.225	0.00	0.00
ATOM	23513	CZ	ARG	1569	91.974	74.942	89.655	0.00	0.00
ATOM	23514	NH1	ARG	1569	92.273	74.928	88.425	0.00	0.00
ATOM	23515	1HH1	ARG	1569	91.919	75.588	87.747	0.00	0.00
ATOM	23516	2HH1	ARG	1569	92.911	74.263	88.012	0.00	0.00
ATOM	23517	NH2	ARG	1569	91.113	75.901	90.078	0.00	0.00
ATOM	23518	1HH2	ARG	1569	90.633	76.498	89.418	0.00	0.00
ATOM	23519	2HH2	ARG	1569	90.928	75.931	91.070	0.00	0.00
ATOM	23520	C	ARG	1569	94.011	72.281	96.410	0.00	0.00
ATOM	23521	O	ARG	1569	95.171	72.371	96.800	0.00	0.00
ATOM	23522	N	LEU	1570	92.998	72.160	97.254	0.00	0.00
ATOM	23523	H	LEU	1570	92.081	72.016	96.857	0.00	0.00

ATOM	23524	CA	LEU	1570	93.228	72.231	98.709	0.00	0.00
ATOM	23525	HA	LEU	1570	93.804	73.154	98.769	0.00	0.00
ATOM	23526	CB	LEU	1570	91.879	72.305	99.533	0.00	0.00
ATOM	23527	HB2	LEU	1570	91.275	73.110	99.116	0.00	0.00
ATOM	23528	HB3	LEU	1570	91.381	71.345	99.398	0.00	0.00
ATOM	23529	CG	LEU	1570	91.796	72.621	101.034	0.00	0.00
ATOM	23530	HG	LEU	1570	92.246	71.799	101.590	0.00	0.00
ATOM	23531	CD1	LEU	1570	92.386	73.896	101.599	0.00	0.00
ATOM	23532	1HD1	LEU	1570	92.338	73.745	102.678	0.00	0.00
ATOM	23533	2HD1	LEU	1570	93.445	73.832	101.352	0.00	0.00
ATOM	23534	3HD1	LEU	1570	91.952	74.796	101.165	0.00	0.00
ATOM	23535	CD2	LEU	1570	90.324	72.602	101.449	0.00	0.00
ATOM	23536	1HD2	LEU	1570	89.852	71.638	101.263	0.00	0.00
ATOM	23537	2HD2	LEU	1570	90.331	72.835	102.513	0.00	0.00
ATOM	23538	3HD2	LEU	1570	89.817	73.359	100.849	0.00	0.00
ATOM	23539	C	LEU	1570	94.143	71.148	99.365	0.00	0.00
ATOM	23540	O	LEU	1570	94.826	71.434	100.266	0.00	0.00
ATOM	23541	N	ALA	1571	94.239	69.950	98.792	0.00	0.00
ATOM	23542	H	ALA	1571	93.734	69.828	97.926	0.00	0.00
ATOM	23543	CA	ALA	1571	95.162	68.882	99.250	0.00	0.00
ATOM	23544	HA	ALA	1571	94.909	68.754	100.302	0.00	0.00
ATOM	23545	CB	ALA	1571	94.838	67.590	98.613	0.00	0.00
ATOM	23546	HB1	ALA	1571	93.782	67.410	98.811	0.00	0.00
ATOM	23547	HB2	ALA	1571	95.128	67.641	97.564	0.00	0.00
ATOM	23548	HB3	ALA	1571	95.481	66.852	99.094	0.00	0.00
ATOM	23549	C	ALA	1571	96.649	69.273	98.983	0.00	0.00

ATOM	23550	O	ALA	1571	97.560	68.794	99.669	0.00	0.00
ATOM	23551	N	ARG	1572	96.891	70.143	97.987	0.00	0.00
ATOM	23552	H	ARG	1572	96.113	70.466	97.430	0.00	0.00
ATOM	23553	CA	ARG	1572	98.225	70.697	97.733	0.00	0.00
ATOM	23554	HA	ARG	1572	98.996	69.955	97.943	0.00	0.00
ATOM	23555	CB	ARG	1572	98.405	71.004	96.232	0.00	0.00
ATOM	23556	HB2	ARG	1572	97.491	71.451	95.841	0.00	0.00
ATOM	23557	HB3	ARG	1572	99.293	71.602	96.028	0.00	0.00
ATOM	23558	CG	ARG	1572	98.388	69.683	95.439	0.00	0.00
ATOM	23559	HG2	ARG	1572	97.396	69.251	95.563	0.00	0.00
ATOM	23560	HG3	ARG	1572	99.268	69.178	95.837	0.00	0.00
ATOM	23561	CD	ARG	1572	98.721	69.802	93.950	0.00	0.00
ATOM	23562	HD2	ARG	1572	99.719	70.227	93.850	0.00	0.00
ATOM	23563	HD3	ARG	1572	98.805	68.804	93.521	0.00	0.00
ATOM	23564	NE	ARG	1572	97.849	70.700	93.186	0.00	0.00
ATOM	23565	HE	ARG	1572	98.136	71.658	93.049	0.00	0.00
ATOM	23566	CZ	ARG	1572	96.752	70.475	92.508	0.00	0.00
ATOM	23567	NH1	ARG	1572	96.458	69.215	92.162	0.00	0.00
ATOM	23568	1HH1	ARG	1572	95.536	68.960	91.839	0.00	0.00
ATOM	23569	2HH1	ARG	1572	96.932	68.424	92.575	0.00	0.00
ATOM	23570	NH2	ARG	1572	96.059	71.477	92.110	0.00	0.00
ATOM	23571	1HH2	ARG	1572	95.337	71.282	91.431	0.00	0.00
ATOM	23572	2HH2	ARG	1572	96.320	72.434	92.297	0.00	0.00
ATOM	23573	C	ARG	1572	98.576	71.956	98.585	0.00	0.00
ATOM	23574	O	ARG	1572	99.702	72.456	98.547	0.00	0.00
ATOM	23575	N	GLY	1573	97.642	72.401	99.453	0.00	0.00

ATOM	23576	H	GLY	1573	96.673	72.236	99.218	0.00	0.00
ATOM	23577	CA	GLY	1573	97.931	73.407	100.464	0.00	0.00
ATOM	23578	HA2	GLY	1573	97.221	73.257	101.278	0.00	0.00
ATOM	23579	HA3	GLY	1573	98.900	73.246	100.936	0.00	0.00
ATOM	23580	C	GLY	1573	97.774	74.824	100.109	0.00	0.00
ATOM	23581	O	GLY	1573	98.451	75.716	100.696	0.00	0.00
ATOM	23582	N	LEU	1574	96.979	75.224	99.060	0.00	0.00
ATOM	23583	H	LEU	1574	96.355	74.531	98.673	0.00	0.00
ATOM	23584	CA	LEU	1574	96.658	76.555	98.644	0.00	0.00
ATOM	23585	HA	LEU	1574	97.241	77.248	99.251	0.00	0.00
ATOM	23586	CB	LEU	1574	96.967	76.689	97.199	0.00	0.00
ATOM	23587	HB2	LEU	1574	97.262	77.710	96.958	0.00	0.00
ATOM	23588	HB3	LEU	1574	97.926	76.209	97.005	0.00	0.00
ATOM	23589	CG	LEU	1574	95.867	76.057	96.279	0.00	0.00
ATOM	23590	HG	LEU	1574	95.462	75.121	96.665	0.00	0.00
ATOM	23591	CD1	LEU	1574	94.701	76.968	95.807	0.00	0.00
ATOM	23592	1HD1	LEU	1574	94.994	78.017	95.754	0.00	0.00
ATOM	23593	2HD1	LEU	1574	94.173	76.643	94.911	0.00	0.00
ATOM	23594	3HD1	LEU	1574	93.966	76.964	96.612	0.00	0.00
ATOM	23595	CD2	LEU	1574	96.480	75.707	94.955	0.00	0.00
ATOM	23596	1HD2	LEU	1574	97.018	76.573	94.571	0.00	0.00
ATOM	23597	2HD2	LEU	1574	97.151	74.855	95.058	0.00	0.00
ATOM	23598	3HD2	LEU	1574	95.755	75.428	94.191	0.00	0.00
ATOM	23599	C	LEU	1574	95.116	76.908	98.956	0.00	0.00
ATOM	23600	O	LEU	1574	94.352	75.921	99.090	0.00	0.00
ATOM	23601	N	LYS	1575	94.777	78.205	99.129	0.00	0.00

ATOM	23602	H	LYS	1575	95.504	78.875	98.921	0.00	0.00
ATOM	23603	CA	LYS	1575	93.470	78.730	99.471	0.00	0.00
ATOM	23604	HA	LYS	1575	92.977	78.066	100.181	0.00	0.00
ATOM	23605	CB	LYS	1575	93.574	79.951	100.318	0.00	0.00
ATOM	23606	HB2	LYS	1575	93.699	80.818	99.669	0.00	0.00
ATOM	23607	HB3	LYS	1575	92.592	80.079	100.773	0.00	0.00
ATOM	23608	CG	LYS	1575	94.600	79.640	101.497	0.00	0.00
ATOM	23609	HG2	LYS	1575	94.137	78.885	102.132	0.00	0.00
ATOM	23610	HG3	LYS	1575	95.578	79.288	101.169	0.00	0.00
ATOM	23611	CD	LYS	1575	94.762	81.052	102.178	0.00	0.00
ATOM	23612	HD2	LYS	1575	95.354	81.708	101.539	0.00	0.00
ATOM	23613	HD3	LYS	1575	93.739	81.417	102.268	0.00	0.00
ATOM	23614	CE	LYS	1575	95.412	80.981	103.570	0.00	0.00
ATOM	23615	HE2	LYS	1575	95.063	80.081	104.076	0.00	0.00
ATOM	23616	HE3	LYS	1575	96.502	80.963	103.544	0.00	0.00
ATOM	23617	NZ	LYS	1575	95.055	82.176	104.321	0.00	0.00
ATOM	23618	HZ1	LYS	1575	95.284	82.125	105.303	0.00	0.00
ATOM	23619	HZ2	LYS	1575	95.487	83.007	103.942	0.00	0.00
ATOM	23620	HZ3	LYS	1575	94.047	82.215	104.283	0.00	0.00
ATOM	23621	C	LYS	1575	92.479	78.803	98.313	0.00	0.00
ATOM	23622	O	LYS	1575	92.798	79.288	97.225	0.00	0.00
ATOM	23623	N	LEU	1576	91.237	78.334	98.538	0.00	0.00
ATOM	23624	H	LEU	1576	91.036	77.898	99.427	0.00	0.00
ATOM	23625	CA	LEU	1576	90.219	78.242	97.507	0.00	0.00
ATOM	23626	HA	LEU	1576	90.767	77.908	96.626	0.00	0.00
ATOM	23627	CB	LEU	1576	89.301	77.059	97.836	0.00	0.00



ATOM	23628	HB2 LEU	1576	88.899	77.395	98.792	0.00	0.00
ATOM	23629	HB3 LEU	1576	88.513	77.021	97.084	0.00	0.00
ATOM	23630	CG LEU	1576	89.882	75.602	97.973	0.00	0.00
ATOM	23631	HG LEU	1576	90.583	75.578	98.808	0.00	0.00
ATOM	23632	CD1 LEU	1576	88.675	74.661	98.197	0.00	0.00
ATOM	23633	1HD1 LEU	1576	88.991	73.619	98.152	0.00	0.00
ATOM	23634	2HD1 LEU	1576	88.177	74.846	99.148	0.00	0.00
ATOM	23635	3HD1 LEU	1576	88.072	74.896	97.319	0.00	0.00
ATOM	23636	CD2 LEU	1576	90.731	75.158	96.729	0.00	0.00
ATOM	23637	1HD2 LEU	1576	90.050	75.081	95.881	0.00	0.00
ATOM	23638	2HD2 LEU	1576	91.512	75.886	96.509	0.00	0.00
ATOM	23639	3HD2 LEU	1576	91.325	74.250	96.833	0.00	0.00
ATOM	23640	C LEU	1576	89.473	79.580	97.314	0.00	0.00
ATOM	23641	O LEU	1576	89.406	80.441	98.191	0.00	0.00
ATOM	23642	N ASN	1577	88.940	79.761	96.127	0.00	0.00
ATOM	23643	H ASN	1577	89.117	78.991	95.498	0.00	0.00
ATOM	23644	CA ASN	1577	88.460	80.966	95.567	0.00	0.00
ATOM	23645	HA ASN	1577	88.711	81.748	96.283	0.00	0.00
ATOM	23646	CB ASN	1577	89.066	81.235	94.219	0.00	0.00
ATOM	23647	HB2 ASN	1577	88.841	82.252	93.898	0.00	0.00
ATOM	23648	HB3 ASN	1577	90.141	81.054	94.213	0.00	0.00
ATOM	23649	CG ASN	1577	88.560	80.290	93.076	0.00	0.00
ATOM	23650	OD1 ASN	1577	87.611	79.580	93.171	0.00	0.00
ATOM	23651	ND2 ASN	1577	89.151	80.378	91.880	0.00	0.00
ATOM	23652	1HD2 ASN	1577	88.811	79.860	91.082	0.00	0.00
ATOM	23653	2HD2 ASN	1577	89.769	81.175	91.826	0.00	0.00

ATOM	23654	C	ASN	1577	86.909	80.921	95.596	0.00	0.00
ATOM	23655	O	ASN	1577	86.238	80.005	96.111	0.00	0.00
ATOM	23656	N	TYR	1578	86.300	81.947	94.977	0.00	0.00
ATOM	23657	H	TYR	1578	86.850	82.610	94.449	0.00	0.00
ATOM	23658	CA	TYR	1578	84.858	82.154	95.030	0.00	0.00
ATOM	23659	HA	TYR	1578	84.662	82.354	96.084	0.00	0.00
ATOM	23660	CB	TYR	1578	84.516	83.414	94.223	0.00	0.00
ATOM	23661	HB2	TYR	1578	85.070	84.302	94.530	0.00	0.00
ATOM	23662	HB3	TYR	1578	84.954	83.276	93.234	0.00	0.00
ATOM	23663	CG	TYR	1578	83.133	83.854	94.051	0.00	0.00
ATOM	23664	CD1	TYR	1578	82.445	84.422	95.120	0.00	0.00
ATOM	23665	HD1	TYR	1578	82.913	84.525	96.088	0.00	0.00
ATOM	23666	CE1	TYR	1578	81.134	84.914	94.930	0.00	0.00
ATOM	23667	HE1	TYR	1578	80.663	85.214	95.855	0.00	0.00
ATOM	23668	CZ	TYR	1578	80.478	84.741	93.648	0.00	0.00
ATOM	23669	OH	TYR	1578	79.135	84.820	93.580	0.00	0.00
ATOM	23670	HH	TYR	1578	78.805	85.205	94.395	0.00	0.00
ATOM	23671	CE2	TYR	1578	81.254	84.296	92.540	0.00	0.00
ATOM	23672	HE2	TYR	1578	80.880	84.333	91.527	0.00	0.00
ATOM	23673	CD2	TYR	1578	82.620	83.905	92.725	0.00	0.00
ATOM	23674	HD2	TYR	1578	83.052	83.551	91.800	0.00	0.00
ATOM	23675	C	TYR	1578	84.087	80.982	94.585	0.00	0.00
ATOM	23676	O	TYR	1578	83.297	80.419	95.393	0.00	0.00
ATOM	23677	N	PRO	1579	84.142	80.506	93.298	0.00	0.00
ATOM	23678	CD	PRO	1579	85.011	80.885	92.195	0.00	0.00
ATOM	23679	HD2	PRO	1579	84.584	81.704	91.616	0.00	0.00

ATOM	23680	HD3 PRO	1579	86.042	81.040	92.513	0.00	0.00
ATOM	23681	CG PRO	1579	84.964	79.719	91.208	0.00	0.00
ATOM	23682	HG2 PRO	1579	85.004	80.062	90.174	0.00	0.00
ATOM	23683	HG3 PRO	1579	85.747	79.006	91.467	0.00	0.00
ATOM	23684	CB PRO	1579	83.591	79.181	91.359	0.00	0.00
ATOM	23685	HB2 PRO	1579	82.810	79.759	90.865	0.00	0.00
ATOM	23686	HB3 PRO	1579	83.547	78.138	91.045	0.00	0.00
ATOM	23687	CA PRO	1579	83.435	79.315	92.865	0.00	0.00
ATOM	23688	HA PRO	1579	82.369	79.454	93.048	0.00	0.00
ATOM	23689	C PRO	1579	83.905	78.029	93.525	0.00	0.00
ATOM	23690	O PRO	1579	83.110	77.094	93.829	0.00	0.00
ATOM	23691	N GLU	1580	85.190	77.913	93.838	0.00	0.00
ATOM	23692	H GLU	1580	85.888	78.622	93.663	0.00	0.00
ATOM	23693	CA GLU	1580	85.721	76.665	94.337	0.00	0.00
ATOM	23694	HA GLU	1580	85.507	75.780	93.738	0.00	0.00
ATOM	23695	CB GLU	1580	87.312	76.845	94.505	0.00	0.00
ATOM	23696	HB2 GLU	1580	87.452	77.823	94.967	0.00	0.00
ATOM	23697	HB3 GLU	1580	87.581	76.068	95.221	0.00	0.00
ATOM	23698	CG GLU	1580	88.165	76.691	93.244	0.00	0.00
ATOM	23699	HG2 GLU	1580	88.099	75.682	92.837	0.00	0.00
ATOM	23700	HG3 GLU	1580	87.800	77.367	92.470	0.00	0.00
ATOM	23701	CD GLU	1580	89.640	77.151	93.424	0.00	0.00
ATOM	23702	OE1 GLU	1580	89.928	77.912	94.349	0.00	0.00
ATOM	23703	OE2 GLU	1580	90.457	76.737	92.614	0.00	0.00
ATOM	23704	C GLU	1580	85.190	76.302	95.791	0.00	0.00
ATOM	23705	O GLU	1580	84.778	75.154	96.035	0.00	0.00

ATOM	23706	N	SER	1581	84.989	77.300	96.592	0.00	0.00
ATOM	23707	H	SER	1581	85.124	78.157	96.075	0.00	0.00
ATOM	23708	CA	SER	1581	84.321	77.236	97.907	0.00	0.00
ATOM	23709	HA	SER	1581	84.711	76.407	98.497	0.00	0.00
ATOM	23710	CB	SER	1581	84.581	78.470	98.700	0.00	0.00
ATOM	23711	HB2	SER	1581	84.138	79.347	98.227	0.00	0.00
ATOM	23712	HB3	SER	1581	84.180	78.322	99.703	0.00	0.00
ATOM	23713	OG	SER	1581	85.960	78.701	98.752	0.00	0.00
ATOM	23714	HG	SER	1581	86.281	78.984	97.892	0.00	0.00
ATOM	23715	C	SER	1581	82.825	76.897	97.849	0.00	0.00
ATOM	23716	O	SER	1581	82.285	76.294	98.747	0.00	0.00
ATOM	23717	N	VAL	1582	82.117	77.313	96.783	0.00	0.00
ATOM	23718	H	VAL	1582	82.442	77.966	96.085	0.00	0.00
ATOM	23719	CA	VAL	1582	80.735	76.845	96.576	0.00	0.00
ATOM	23720	HA	VAL	1582	80.250	76.792	97.551	0.00	0.00
ATOM	23721	CB	VAL	1582	79.948	77.793	95.705	0.00	0.00
ATOM	23722	HB	VAL	1582	80.511	77.994	94.794	0.00	0.00
ATOM	23723	CG1	VAL	1582	78.559	77.268	95.283	0.00	0.00
ATOM	23724	1HG1	VAL	1582	77.992	76.776	96.074	0.00	0.00
ATOM	23725	2HG1	VAL	1582	77.972	78.015	94.749	0.00	0.00
ATOM	23726	3HG1	VAL	1582	78.740	76.441	94.597	0.00	0.00
ATOM	23727	CG2	VAL	1582	79.765	79.106	96.531	0.00	0.00
ATOM	23728	1HG2	VAL	1582	79.390	78.876	97.528	0.00	0.00
ATOM	23729	2HG2	VAL	1582	80.715	79.634	96.614	0.00	0.00
ATOM	23730	3HG2	VAL	1582	79.034	79.735	96.023	0.00	0.00
ATOM	23731	C	VAL	1582	80.695	75.417	96.170	0.00	0.00

ATOM	23732	O	VAL	1582	79.768	74.653	96.591	0.00	0.00
ATOM	23733	N	ALA	1583	81.513	74.890	95.232	0.00	0.00
ATOM	23734	H	ALA	1583	82.215	75.464	94.787	0.00	0.00
ATOM	23735	CA	ALA	1583	81.434	73.537	94.752	0.00	0.00
ATOM	23736	HA	ALA	1583	80.413	73.385	94.403	0.00	0.00
ATOM	23737	CB	ALA	1583	82.298	73.415	93.489	0.00	0.00
ATOM	23738	HB1	ALA	1583	82.056	74.249	92.831	0.00	0.00
ATOM	23739	HB2	ALA	1583	83.378	73.498	93.616	0.00	0.00
ATOM	23740	HB3	ALA	1583	82.169	72.432	93.037	0.00	0.00
ATOM	23741	C	ALA	1583	81.716	72.485	95.835	0.00	0.00
ATOM	23742	O	ALA	1583	81.007	71.525	95.879	0.00	0.00
ATOM	23743	N	LEU	1584	82.766	72.693	96.668	0.00	0.00
ATOM	23744	H	LEU	1584	83.328	73.524	96.549	0.00	0.00
ATOM	23745	CA	LEU	1584	83.110	71.627	97.578	0.00	0.00
ATOM	23746	HA	LEU	1584	83.032	70.706	97.001	0.00	0.00
ATOM	23747	CB	LEU	1584	84.510	71.910	98.172	0.00	0.00
ATOM	23748	HB2	LEU	1584	85.172	72.036	97.315	0.00	0.00
ATOM	23749	HB3	LEU	1584	84.382	72.852	98.706	0.00	0.00
ATOM	23750	CG	LEU	1584	85.087	70.782	98.989	0.00	0.00
ATOM	23751	HG	LEU	1584	84.783	69.806	98.609	0.00	0.00
ATOM	23752	CD1	LEU	1584	86.579	70.889	98.808	0.00	0.00
ATOM	23753	1HD1	LEU	1584	86.963	70.781	97.794	0.00	0.00
ATOM	23754	2HD1	LEU	1584	86.811	71.858	99.249	0.00	0.00
ATOM	23755	3HD1	LEU	1584	87.023	70.175	99.502	0.00	0.00
ATOM	23756	CD2	LEU	1584	84.809	70.997	100.465	0.00	0.00
ATOM	23757	1HD2	LEU	1584	85.213	71.926	100.867	0.00	0.00

ATOM	23758	2HD2	LEU	1584	83.752	71.053	100.725	0.00	0.00
ATOM	23759	3HD2	LEU	1584	85.193	70.166	101.055	0.00	0.00
ATOM	23760	C	LEU	1584	82.041	71.575	98.680	0.00	0.00
ATOM	23761	O	LEU	1584	81.644	70.458	99.079	0.00	0.00
ATOM	23762	N	ILE	1585	81.432	72.699	99.151	0.00	0.00
ATOM	23763	H	ILE	1585	81.721	73.568	98.725	0.00	0.00
ATOM	23764	CA	ILE	1585	80.319	72.802	100.203	0.00	0.00
ATOM	23765	HA	ILE	1585	80.564	72.169	101.055	0.00	0.00
ATOM	23766	CB	ILE	1585	80.240	74.282	100.777	0.00	0.00
ATOM	23767	HB	ILE	1585	79.940	74.875	99.913	0.00	0.00
ATOM	23768	CG2	ILE	1585	79.077	74.260	101.800	0.00	0.00
ATOM	23769	1HG2	ILE	1585	78.890	75.217	102.287	0.00	0.00
ATOM	23770	2HG2	ILE	1585	78.169	73.946	101.286	0.00	0.00
ATOM	23771	3HG2	ILE	1585	79.307	73.561	102.605	0.00	0.00
ATOM	23772	CG1	ILE	1585	81.614	74.563	101.433	0.00	0.00
ATOM	23773	2HG1	ILE	1585	81.710	73.887	102.282	0.00	0.00
ATOM	23774	3HG1	ILE	1585	82.458	74.379	100.768	0.00	0.00
ATOM	23775	CD1	ILE	1585	81.592	75.991	101.985	0.00	0.00
ATOM	23776	1HD1	ILE	1585	81.320	76.677	101.182	0.00	0.00
ATOM	23777	2HD1	ILE	1585	80.919	76.058	102.840	0.00	0.00
ATOM	23778	3HD1	ILE	1585	82.595	76.291	102.287	0.00	0.00
ATOM	23779	C	ILE	1585	78.930	72.312	99.648	0.00	0.00
ATOM	23780	O	ILE	1585	78.214	71.535	100.281	0.00	0.00
ATOM	23781	N	SER	1586	78.505	72.718	98.423	0.00	0.00
ATOM	23782	H	SER	1586	79.063	73.387	97.911	0.00	0.00
ATOM	23783	CA	SER	1586	77.313	72.117	97.700	0.00	0.00

ATOM	23784	HA	SER	1586	76.481	72.282	98.384	0.00	0.00
ATOM	23785	CB	SER	1586	77.182	72.692	96.273	0.00	0.00
ATOM	23786	HB2	SER	1586	78.000	72.382	95.622	0.00	0.00
ATOM	23787	HB3	SER	1586	76.271	72.185	95.953	0.00	0.00
ATOM	23788	OG	SER	1586	77.140	74.033	96.418	0.00	0.00
ATOM	23789	HG	SER	1586	78.020	74.416	96.426	0.00	0.00
ATOM	23790	C	SER	1586	77.401	70.621	97.530	0.00	0.00
ATOM	23791	O	SER	1586	76.461	69.855	97.584	0.00	0.00
ATOM	23792	N	ALA	1587	78.618	70.133	97.433	0.00	0.00
ATOM	23793	H	ALA	1587	79.429	70.734	97.404	0.00	0.00
ATOM	23794	CA	ALA	1587	78.881	68.702	97.188	0.00	0.00
ATOM	23795	HA	ALA	1587	78.182	68.262	96.478	0.00	0.00
ATOM	23796	CB	ALA	1587	80.292	68.537	96.553	0.00	0.00
ATOM	23797	HB1	ALA	1587	80.693	67.550	96.782	0.00	0.00
ATOM	23798	HB2	ALA	1587	80.267	68.699	95.475	0.00	0.00
ATOM	23799	HB3	ALA	1587	81.014	69.201	97.027	0.00	0.00
ATOM	23800	C	ALA	1587	78.676	67.960	98.441	0.00	0.00
ATOM	23801	O	ALA	1587	78.076	66.863	98.364	0.00	0.00
ATOM	23802	N	PHE	1588	79.004	68.622	99.566	0.00	0.00
ATOM	23803	H	PHE	1588	79.422	69.538	99.483	0.00	0.00
ATOM	23804	CA	PHE	1588	78.686	68.063	100.877	0.00	0.00
ATOM	23805	HA	PHE	1588	78.938	67.014	101.031	0.00	0.00
ATOM	23806	CB	PHE	1588	79.449	68.873	101.939	0.00	0.00
ATOM	23807	HB2	PHE	1588	80.507	68.654	101.798	0.00	0.00
ATOM	23808	HB3	PHE	1588	79.193	69.933	101.923	0.00	0.00
ATOM	23809	CG	PHE	1588	79.203	68.406	103.397	0.00	0.00

ATOM	23810	CD1	PHE	1588	79.866	67.287	104.024	0.00	0.00
ATOM	23811	HD1	PHE	1588	80.585	66.689	103.484	0.00	0.00
ATOM	23812	CE1	PHE	1588	79.428	66.812	105.276	0.00	0.00
ATOM	23813	HE1	PHE	1588	79.982	65.989	105.702	0.00	0.00
ATOM	23814	CZ	PHE	1588	78.445	67.528	105.972	0.00	0.00
ATOM	23815	HZ	PHE	1588	78.200	67.071	106.919	0.00	0.00
ATOM	23816	CE2	PHE	1588	77.808	68.627	105.373	0.00	0.00
ATOM	23817	HE2	PHE	1588	77.078	69.153	105.969	0.00	0.00
ATOM	23818	CD2	PHE	1588	78.133	69.025	104.078	0.00	0.00
ATOM	23819	HD2	PHE	1588	77.500	69.754	103.593	0.00	0.00
ATOM	23820	C	PHE	1588	77.194	68.099	101.091	0.00	0.00
ATOM	23821	O	PHE	1588	76.645	67.226	101.808	0.00	0.00
ATOM	23822	N	ILE	1589	76.430	69.082	100.516	0.00	0.00
ATOM	23823	H	ILE	1589	76.938	69.848	100.098	0.00	0.00
ATOM	23824	CA	ILE	1589	74.981	69.044	100.584	0.00	0.00
ATOM	23825	HA	ILE	1589	74.711	68.828	101.618	0.00	0.00
ATOM	23826	CB	ILE	1589	74.381	70.407	100.281	0.00	0.00
ATOM	23827	HB	ILE	1589	74.657	70.640	99.252	0.00	0.00
ATOM	23828	CG2	ILE	1589	72.853	70.398	100.303	0.00	0.00
ATOM	23829	1HG2	ILE	1589	72.418	69.723	99.566	0.00	0.00
ATOM	23830	2HG2	ILE	1589	72.528	70.105	101.301	0.00	0.00
ATOM	23831	3HG2	ILE	1589	72.393	71.328	99.971	0.00	0.00
ATOM	23832	CG1	ILE	1589	74.979	71.507	101.163	0.00	0.00
ATOM	23833	2HG1	ILE	1589	76.058	71.642	101.089	0.00	0.00
ATOM	23834	3HG1	ILE	1589	74.473	72.443	100.927	0.00	0.00
ATOM	23835	CD1	ILE	1589	74.579	71.392	102.660	0.00	0.00



ATOM	23836	1HD1	ILE	1589	74.867	70.416	103.049	0.00	0.00
ATOM	23837	2HD1	ILE	1589	75.064	72.208	103.196	0.00	0.00
ATOM	23838	3HD1	ILE	1589	73.504	71.530	102.776	0.00	0.00
ATOM	23839	C	ILE	1589	74.425	67.963	99.694	0.00	0.00
ATOM	23840	O	ILE	1589	73.500	67.258	100.189	0.00	0.00
ATOM	23841	N	MET	1590	75.000	67.644	98.534	0.00	0.00
ATOM	23842	H	MET	1590	75.781	68.219	98.251	0.00	0.00
ATOM	23843	CA	MET	1590	74.473	66.608	97.661	0.00	0.00
ATOM	23844	HA	MET	1590	73.396	66.738	97.563	0.00	0.00
ATOM	23845	CB	MET	1590	75.188	66.669	96.245	0.00	0.00
ATOM	23846	HB2	MET	1590	76.254	66.638	96.473	0.00	0.00
ATOM	23847	HB3	MET	1590	74.891	65.740	95.758	0.00	0.00
ATOM	23848	CG	MET	1590	74.703	67.980	95.546	0.00	0.00
ATOM	23849	HG2	MET	1590	73.620	68.008	95.667	0.00	0.00
ATOM	23850	HG3	MET	1590	75.131	68.901	95.940	0.00	0.00
ATOM	23851	SD	MET	1590	74.831	67.964	93.710	0.00	0.00
ATOM	23852	CE	MET	1590	76.654	67.816	93.660	0.00	0.00
ATOM	23853	HE1	MET	1590	76.966	67.920	92.620	0.00	0.00
ATOM	23854	HE2	MET	1590	77.143	68.511	94.342	0.00	0.00
ATOM	23855	HE3	MET	1590	76.866	66.818	94.043	0.00	0.00
ATOM	23856	C	MET	1590	74.632	65.203	98.310	0.00	0.00
ATOM	23857	O	MET	1590	73.690	64.363	98.304	0.00	0.00
ATOM	23858	N	GLU	1591	75.818	65.005	98.942	0.00	0.00
ATOM	23859	H	GLU	1591	76.359	65.858	98.973	0.00	0.00
ATOM	23860	CA	GLU	1591	76.079	63.823	99.747	0.00	0.00
ATOM	23861	HA	GLU	1591	75.810	62.930	99.183	0.00	0.00

ATOM	23862	CB	GLU	1591	77.569	63.726	100.186	0.00	0.00
ATOM	23863	HB2	GLU	1591	78.035	64.614	100.614	0.00	0.00
ATOM	23864	HB3	GLU	1591	77.801	62.924	100.887	0.00	0.00
ATOM	23865	CG	GLU	1591	78.575	63.448	99.010	0.00	0.00
ATOM	23866	HG2	GLU	1591	78.715	64.442	98.586	0.00	0.00
ATOM	23867	HG3	GLU	1591	79.500	63.253	99.552	0.00	0.00
ATOM	23868	CD	GLU	1591	78.129	62.406	98.068	0.00	0.00
ATOM	23869	OE1	GLU	1591	78.013	61.183	98.321	0.00	0.00
ATOM	23870	OE2	GLU	1591	77.843	62.726	96.939	0.00	0.00
ATOM	23871	C	GLU	1591	75.298	63.824	101.087	0.00	0.00
ATOM	23872	O	GLU	1591	74.957	62.734	101.639	0.00	0.00
ATOM	23873	N	GLY	1592	75.054	64.943	101.668	0.00	0.00
ATOM	23874	H	GLY	1592	75.511	65.765	101.300	0.00	0.00
ATOM	23875	CA	GLY	1592	74.232	65.080	102.820	0.00	0.00
ATOM	23876	HA2	GLY	1592	74.473	64.473	103.692	0.00	0.00
ATOM	23877	HA3	GLY	1592	74.139	66.127	103.110	0.00	0.00
ATOM	23878	C	GLY	1592	72.760	64.583	102.499	0.00	0.00
ATOM	23879	O	GLY	1592	72.133	63.928	103.321	0.00	0.00
ATOM	23880	N	ALA	1593	72.133	64.982	101.359	0.00	0.00
ATOM	23881	H	ALA	1593	72.707	65.532	100.736	0.00	0.00
ATOM	23882	CA	ALA	1593	70.802	64.466	100.940	0.00	0.00
ATOM	23883	HA	ALA	1593	69.985	64.682	101.627	0.00	0.00
ATOM	23884	CB	ALA	1593	70.413	65.185	99.685	0.00	0.00
ATOM	23885	HB1	ALA	1593	69.358	65.039	99.456	0.00	0.00
ATOM	23886	HB2	ALA	1593	70.704	66.228	99.810	0.00	0.00
ATOM	23887	HB3	ALA	1593	70.896	64.841	98.770	0.00	0.00

ATOM	23888	C	ALA	1593	70.835	62.907	100.839	0.00	0.00
ATOM	23889	O	ALA	1593	69.883	62.203	101.190	0.00	0.00
ATOM	23890	N	ARG	1594	71.941	62.429	100.325	0.00	0.00
ATOM	23891	H	ARG	1594	72.519	63.134	99.891	0.00	0.00
ATOM	23892	CA	ARG	1594	72.169	61.024	99.990	0.00	0.00
ATOM	23893	HA	ARG	1594	71.259	60.596	99.571	0.00	0.00
ATOM	23894	CB	ARG	1594	73.330	60.962	99.005	0.00	0.00
ATOM	23895	HB2	ARG	1594	73.020	61.663	98.231	0.00	0.00
ATOM	23896	HB3	ARG	1594	74.158	61.505	99.459	0.00	0.00
ATOM	23897	CG	ARG	1594	73.755	59.679	98.393	0.00	0.00
ATOM	23898	HG2	ARG	1594	74.705	59.679	97.859	0.00	0.00
ATOM	23899	HG3	ARG	1594	73.955	59.014	99.233	0.00	0.00
ATOM	23900	CD	ARG	1594	72.650	59.243	97.318	0.00	0.00
ATOM	23901	HD2	ARG	1594	71.659	59.311	97.767	0.00	0.00
ATOM	23902	HD3	ARG	1594	72.668	60.018	96.553	0.00	0.00
ATOM	23903	NE	ARG	1594	72.891	57.873	96.784	0.00	0.00
ATOM	23904	HE	ARG	1594	73.362	57.691	95.910	0.00	0.00
ATOM	23905	CZ	ARG	1594	72.477	56.840	97.450	0.00	0.00
ATOM	23906	NH1	ARG	1594	71.782	56.835	98.530	0.00	0.00
ATOM	23907	1HH1	ARG	1594	71.785	56.049	99.164	0.00	0.00
ATOM	23908	2HH1	ARG	1594	71.238	57.649	98.779	0.00	0.00
ATOM	23909	NH2	ARG	1594	72.752	55.685	96.902	0.00	0.00
ATOM	23910	1HH2	ARG	1594	72.636	54.757	97.284	0.00	0.00
ATOM	23911	2HH2	ARG	1594	73.205	55.704	96.000	0.00	0.00
ATOM	23912	C	ARG	1594	72.483	60.172	101.264	0.00	0.00
ATOM	23913	O	ARG	1594	72.025	59.010	101.337	0.00	0.00

ATOM	23914	N	ASP	1595	73.237	60.729	102.217	0.00	0.00
ATOM	23915	H	ASP	1595	73.763	61.577	102.061	0.00	0.00
ATOM	23916	CA	ASP	1595	73.305	60.136	103.518	0.00	0.00
ATOM	23917	HA	ASP	1595	73.698	59.120	103.501	0.00	0.00
ATOM	23918	CB	ASP	1595	74.338	61.001	104.272	0.00	0.00
ATOM	23919	HB2	ASP	1595	75.263	60.652	103.812	0.00	0.00
ATOM	23920	HB3	ASP	1595	74.009	62.036	104.174	0.00	0.00
ATOM	23921	CG	ASP	1595	74.507	60.626	105.725	0.00	0.00
ATOM	23922	OD1	ASP	1595	73.846	61.325	106.555	0.00	0.00
ATOM	23923	OD2	ASP	1595	75.281	59.719	106.091	0.00	0.00
ATOM	23924	C	ASP	1595	71.968	60.034	104.277	0.00	0.00
ATOM	23925	O	ASP	1595	71.708	59.022	104.926	0.00	0.00
ATOM	23926	N	GLY	1596	71.129	61.036	104.139	0.00	0.00
ATOM	23927	H	GLY	1596	71.529	61.907	103.820	0.00	0.00
ATOM	23928	CA	GLY	1596	69.764	61.039	104.733	0.00	0.00
ATOM	23929	HA2	GLY	1596	69.092	61.274	103.908	0.00	0.00
ATOM	23930	HA3	GLY	1596	69.536	60.037	105.098	0.00	0.00
ATOM	23931	C	GLY	1596	69.636	61.937	105.916	0.00	0.00
ATOM	23932	O	GLY	1596	68.833	61.656	106.790	0.00	0.00
ATOM	23933	N	LYS	1597	70.188	63.121	105.940	0.00	0.00
ATOM	23934	H	LYS	1597	70.594	63.452	105.077	0.00	0.00
ATOM	23935	CA	LYS	1597	69.860	64.138	106.912	0.00	0.00
ATOM	23936	HA	LYS	1597	69.620	63.759	107.906	0.00	0.00
ATOM	23937	CB	LYS	1597	71.105	65.029	107.162	0.00	0.00
ATOM	23938	HB2	LYS	1597	71.344	65.395	106.163	0.00	0.00
ATOM	23939	HB3	LYS	1597	70.884	65.881	107.805	0.00	0.00

ATOM	23940	CG	LYS	1597	72.328	64.339	107.828	0.00	0.00
ATOM	23941	HG2	LYS	1597	72.602	63.515	107.170	0.00	0.00
ATOM	23942	HG3	LYS	1597	71.967	63.956	108.783	0.00	0.00
ATOM	23943	CD	LYS	1597	73.617	65.215	108.042	0.00	0.00
ATOM	23944	HD2	LYS	1597	73.890	65.630	107.072	0.00	0.00
ATOM	23945	HD3	LYS	1597	73.381	66.091	108.647	0.00	0.00
ATOM	23946	CE	LYS	1597	74.636	64.357	108.830	0.00	0.00
ATOM	23947	HE2	LYS	1597	75.460	64.988	109.162	0.00	0.00
ATOM	23948	HE3	LYS	1597	74.333	63.773	109.699	0.00	0.00
ATOM	23949	NZ	LYS	1597	75.180	63.258	107.945	0.00	0.00
ATOM	23950	HZ1	LYS	1597	75.718	62.698	108.591	0.00	0.00
ATOM	23951	HZ2	LYS	1597	74.472	62.742	107.444	0.00	0.00
ATOM	23952	HZ3	LYS	1597	75.794	63.572	107.207	0.00	0.00
ATOM	23953	C	LYS	1597	68.667	64.856	106.431	0.00	0.00
ATOM	23954	O	LYS	1597	68.459	65.026	105.243	0.00	0.00
ATOM	23955	N	SER	1598	67.832	65.399	107.324	0.00	0.00
ATOM	23956	H	SER	1598	68.068	65.249	108.294	0.00	0.00
ATOM	23957	CA	SER	1598	66.778	66.355	107.073	0.00	0.00
ATOM	23958	HA	SER	1598	66.260	65.928	106.214	0.00	0.00
ATOM	23959	CB	SER	1598	65.807	66.363	108.241	0.00	0.00
ATOM	23960	HB2	SER	1598	64.847	66.697	107.849	0.00	0.00
ATOM	23961	HB3	SER	1598	65.683	65.357	108.642	0.00	0.00
ATOM	23962	OG	SER	1598	66.211	67.254	109.226	0.00	0.00
ATOM	23963	HG	SER	1598	65.511	67.248	109.882	0.00	0.00
ATOM	23964	C	SER	1598	67.195	67.661	106.545	0.00	0.00
ATOM	23965	O	SER	1598	68.349	68.061	106.830	0.00	0.00

ATOM	23966	N	VAL	1599	66.365	68.406	105.816	0.00	0.00
ATOM	23967	H	VAL	1599	65.502	67.919	105.616	0.00	0.00
ATOM	23968	CA	VAL	1599	66.620	69.772	105.363	0.00	0.00
ATOM	23969	HA	VAL	1599	67.497	69.686	104.721	0.00	0.00
ATOM	23970	CB	VAL	1599	65.566	70.402	104.458	0.00	0.00
ATOM	23971	HB	VAL	1599	65.906	71.412	104.227	0.00	0.00
ATOM	23972	CG1	VAL	1599	65.464	69.750	103.046	0.00	0.00
ATOM	23973	1HG1	VAL	1599	66.151	70.281	102.386	0.00	0.00
ATOM	23974	2HG1	VAL	1599	65.599	68.668	103.066	0.00	0.00
ATOM	23975	3HG1	VAL	1599	64.450	69.922	102.687	0.00	0.00
ATOM	23976	CG2	VAL	1599	64.241	70.601	105.222	0.00	0.00
ATOM	23977	1HG2	VAL	1599	63.724	69.650	105.346	0.00	0.00
ATOM	23978	2HG2	VAL	1599	64.416	71.060	106.195	0.00	0.00
ATOM	23979	3HG2	VAL	1599	63.646	71.246	104.576	0.00	0.00
ATOM	23980	C	VAL	1599	67.078	70.700	106.524	0.00	0.00
ATOM	23981	O	VAL	1599	67.662	71.742	106.206	0.00	0.00
ATOM	23982	N	ALA	1600	66.698	70.455	107.777	0.00	0.00
ATOM	23983	H	ALA	1600	65.918	69.820	107.870	0.00	0.00
ATOM	23984	CA	ALA	1600	67.103	71.231	108.934	0.00	0.00
ATOM	23985	HA	ALA	1600	67.218	72.271	108.628	0.00	0.00
ATOM	23986	CB	ALA	1600	65.929	71.050	109.901	0.00	0.00
ATOM	23987	HB1	ALA	1600	65.037	71.463	109.429	0.00	0.00
ATOM	23988	HB2	ALA	1600	65.774	69.971	109.898	0.00	0.00
ATOM	23989	HB3	ALA	1600	66.148	71.474	110.880	0.00	0.00
ATOM	23990	C	ALA	1600	68.410	70.736	109.590	0.00	0.00
ATOM	23991	O	ALA	1600	69.345	71.555	109.801	0.00	0.00

ATOM 23992	N	SER 1601	68.475	69.437	109.866	0.00	0.00
ATOM 23993	H	SER 1601	67.619	68.912	109.759	0.00	0.00
ATOM 23994	CA	SER 1601	69.691	68.757	110.333	0.00	0.00
ATOM 23995	HA	SER 1601	70.054	69.156	111.281	0.00	0.00
ATOM 23996	CB	SER 1601	69.295	67.350	110.858	0.00	0.00
ATOM 23997	HB2	SER 1601	68.887	66.838	109.986	0.00	0.00
ATOM 23998	HB3	SER 1601	70.157	66.749	111.152	0.00	0.00
ATOM 23999	OG	SER 1601	68.397	67.413	111.972	0.00	0.00
ATOM 24000	HG	SER 1601	67.860	66.618	111.940	0.00	0.00
ATOM 24001	C	SER 1601	70.847	68.570	109.426	0.00	0.00
ATOM 24002	O	SER 1601	71.936	68.291	110.008	0.00	0.00
ATOM 24003	N	LEU 1602	70.784	68.878	108.128	0.00	0.00
ATOM 24004	H	LEU 1602	69.854	69.094	107.798	0.00	0.00
ATOM 24005	CA	LEU 1602	71.971	69.102	107.329	0.00	0.00
ATOM 24006	HA	LEU 1602	72.728	68.396	107.673	0.00	0.00
ATOM 24007	CB	LEU 1602	71.642	68.678	105.862	0.00	0.00
ATOM 24008	HB2	LEU 1602	71.330	67.634	105.859	0.00	0.00
ATOM 24009	HB3	LEU 1602	70.804	69.237	105.445	0.00	0.00
ATOM 24010	CG	LEU 1602	72.764	68.724	104.825	0.00	0.00
ATOM 24011	HG	LEU 1602	73.155	69.735	104.714	0.00	0.00
ATOM 24012	CD1	LEU 1602	73.918	67.818	105.257	0.00	0.00
ATOM 24013	1HD1	LEU 1602	74.400	68.045	106.208	0.00	0.00
ATOM 24014	2HD1	LEU 1602	73.497	66.813	105.240	0.00	0.00
ATOM 24015	3HD1	LEU 1602	74.756	67.812	104.560	0.00	0.00
ATOM 24016	CD2	LEU 1602	72.300	68.231	103.467	0.00	0.00
ATOM 24017	1HD2	LEU 1602	71.423	68.798	103.155	0.00	0.00

ATOM	24018	2HD2	LEU	1602	73.089	68.493	102.761	0.00	0.00
ATOM	24019	3HD2	LEU	1602	72.171	67.150	103.520	0.00	0.00
ATOM	24020	C	LEU	1602	72.580	70.480	107.266	0.00	0.00
ATOM	24021	O	LEU	1602	73.780	70.614	107.114	0.00	0.00
ATOM	24022	N	MET	1603	71.812	71.568	107.444	0.00	0.00
ATOM	24023	H	MET	1603	70.827	71.415	107.608	0.00	0.00
ATOM	24024	CA	MET	1603	72.194	72.970	107.166	0.00	0.00
ATOM	24025	HA	MET	1603	72.549	72.924	106.136	0.00	0.00
ATOM	24026	CB	MET	1603	70.975	73.888	107.346	0.00	0.00
ATOM	24027	HB2	MET	1603	70.185	73.311	106.864	0.00	0.00
ATOM	24028	HB3	MET	1603	70.637	73.970	108.379	0.00	0.00
ATOM	24029	CG	MET	1603	71.028	75.318	106.760	0.00	0.00
ATOM	24030	HG2	MET	1603	71.427	75.268	105.747	0.00	0.00
ATOM	24031	HG3	MET	1603	69.996	75.607	106.560	0.00	0.00
ATOM	24032	SD	MET	1603	72.078	76.544	107.601	0.00	0.00
ATOM	24033	CE	MET	1603	70.845	77.569	108.353	0.00	0.00
ATOM	24034	HE1	MET	1603	71.392	78.324	108.918	0.00	0.00
ATOM	24035	HE2	MET	1603	70.256	78.073	107.586	0.00	0.00
ATOM	24036	HE3	MET	1603	70.091	77.014	108.910	0.00	0.00
ATOM	24037	C	MET	1603	73.286	73.458	108.016	0.00	0.00
ATOM	24038	O	MET	1603	74.205	74.074	107.523	0.00	0.00
ATOM	24039	N	GLU	1604	73.233	73.070	109.289	0.00	0.00
ATOM	24040	H	GLU	1604	72.455	72.508	109.602	0.00	0.00
ATOM	24041	CA	GLU	1604	74.202	73.554	110.270	0.00	0.00
ATOM	24042	HA	GLU	1604	74.475	74.601	110.140	0.00	0.00
ATOM	24043	CB	GLU	1604	73.619	73.557	111.681	0.00	0.00



ATOM	24044	HB2	GLU	1604	73.264	72.540	111.847	0.00	0.00
ATOM	24045	HB3	GLU	1604	74.418	73.861	112.357	0.00	0.00
ATOM	24046	CG	GLU	1604	72.510	74.605	111.666	0.00	0.00
ATOM	24047	HG2	GLU	1604	72.853	75.603	111.394	0.00	0.00
ATOM	24048	HG3	GLU	1604	71.750	74.356	110.926	0.00	0.00
ATOM	24049	CD	GLU	1604	71.963	74.669	113.129	0.00	0.00
ATOM	24050	OE1	GLU	1604	71.170	73.779	113.512	0.00	0.00
ATOM	24051	OE2	GLU	1604	72.369	75.621	113.877	0.00	0.00
ATOM	24052	C	GLU	1604	75.479	72.711	110.164	0.00	0.00
ATOM	24053	O	GLU	1604	76.498	73.143	110.707	0.00	0.00
ATOM	24054	N	GLU	1605	75.468	71.528	109.476	0.00	0.00
ATOM	24055	H	GLU	1605	74.651	71.336	108.914	0.00	0.00
ATOM	24056	CA	GLU	1605	76.700	70.766	109.136	0.00	0.00
ATOM	24057	HA	GLU	1605	77.394	70.802	109.976	0.00	0.00
ATOM	24058	CB	GLU	1605	76.354	69.270	108.878	0.00	0.00
ATOM	24059	HB2	GLU	1605	75.628	69.170	108.071	0.00	0.00
ATOM	24060	HB3	GLU	1605	77.202	68.735	108.452	0.00	0.00
ATOM	24061	CG	GLU	1605	75.827	68.504	110.074	0.00	0.00
ATOM	24062	HG2	GLU	1605	74.822	68.681	110.457	0.00	0.00
ATOM	24063	HG3	GLU	1605	75.657	67.484	109.730	0.00	0.00
ATOM	24064	CD	GLU	1605	76.938	68.595	111.111	0.00	0.00
ATOM	24065	OE1	GLU	1605	78.036	68.035	110.966	0.00	0.00
ATOM	24066	OE2	GLU	1605	76.758	69.336	112.099	0.00	0.00
ATOM	24067	C	GLU	1605	77.472	71.381	107.956	0.00	0.00
ATOM	24068	O	GLU	1605	78.692	71.301	107.825	0.00	0.00
ATOM	24069	N	GLY	1606	76.691	72.169	107.124	0.00	0.00

ATOM	24070	H	GLY	1606	75.696	72.202	107.296	0.00	0.00
ATOM	24071	CA	GLY	1606	77.179	72.993	106.008	0.00	0.00
ATOM	24072	HA2	GLY	1606	77.669	72.399	105.236	0.00	0.00
ATOM	24073	HA3	GLY	1606	76.314	73.417	105.496	0.00	0.00
ATOM	24074	C	GLY	1606	78.196	74.071	106.317	0.00	0.00
ATOM	24075	O	GLY	1606	78.900	74.492	105.366	0.00	0.00
ATOM	24076	N	ARG	1607	78.441	74.356	107.594	0.00	0.00
ATOM	24077	H	ARG	1607	77.961	73.782	108.273	0.00	0.00
ATOM	24078	CA	ARG	1607	79.084	75.560	108.146	0.00	0.00
ATOM	24079	HA	ARG	1607	79.247	76.333	107.396	0.00	0.00
ATOM	24080	CB	ARG	1607	78.255	76.165	109.300	0.00	0.00
ATOM	24081	HB2	ARG	1607	78.360	75.600	110.226	0.00	0.00
ATOM	24082	HB3	ARG	1607	78.561	77.201	109.445	0.00	0.00
ATOM	24083	CG	ARG	1607	76.783	76.254	108.924	0.00	0.00
ATOM	24084	HG2	ARG	1607	76.703	76.624	107.902	0.00	0.00
ATOM	24085	HG3	ARG	1607	76.465	75.214	108.860	0.00	0.00
ATOM	24086	CD	ARG	1607	75.995	77.087	109.923	0.00	0.00
ATOM	24087	HD2	ARG	1607	74.949	76.790	109.853	0.00	0.00
ATOM	24088	HD3	ARG	1607	76.483	76.864	110.871	0.00	0.00
ATOM	24089	NE	ARG	1607	76.095	78.533	109.713	0.00	0.00
ATOM	24090	HE	ARG	1607	76.710	78.919	109.010	0.00	0.00
ATOM	24091	CZ	ARG	1607	75.401	79.419	110.437	0.00	0.00
ATOM	24092	NH1	ARG	1607	74.846	79.234	111.567	0.00	0.00
ATOM	24093	1HH1	ARG	1607	74.531	79.992	112.155	0.00	0.00
ATOM	24094	2HH1	ARG	1607	74.954	78.260	111.813	0.00	0.00
ATOM	24095	NH2	ARG	1607	75.304	80.665	110.049	0.00	0.00

ATOM	24096	1HH2	ARG	1607	74.687	81.246	110.598	0.00	0.00
ATOM	24097	2HH2	ARG	1607	75.524	80.872	109.085	0.00	0.00
ATOM	24098	C	ARG	1607	80.475	75.212	108.593	0.00	0.00
ATOM	24099	O	ARG	1607	81.168	76.149	109.014	0.00	0.00
ATOM	24100	N	HIE	1608	80.863	73.965	108.615	0.00	0.00
ATOM	24101	H	HIE	1608	80.102	73.336	108.400	0.00	0.00
ATOM	24102	CA	HIE	1608	82.154	73.502	108.954	0.00	0.00
ATOM	24103	HA	HIE	1608	82.845	74.340	109.048	0.00	0.00
ATOM	24104	CB	HIE	1608	82.185	72.869	110.292	0.00	0.00
ATOM	24105	HB2	HIE	1608	81.509	72.014	110.326	0.00	0.00
ATOM	24106	HB3	HIE	1608	83.175	72.514	110.578	0.00	0.00
ATOM	24107	CG	HIE	1608	81.730	73.744	111.374	0.00	0.00
ATOM	24108	ND1	HIE	1608	82.444	74.836	111.781	0.00	0.00
ATOM	24109	CE1	HIE	1608	81.611	75.446	112.668	0.00	0.00
ATOM	24110	HE1	HIE	1608	81.698	76.454	113.046	0.00	0.00
ATOM	24111	NE2	HIE	1608	80.462	74.768	112.809	0.00	0.00
ATOM	24112	HE2	HIE	1608	79.738	75.076	113.442	0.00	0.00
ATOM	24113	CD2	HIE	1608	80.540	73.617	112.064	0.00	0.00
ATOM	24114	HD2	HIE	1608	79.722	73.000	111.723	0.00	0.00
ATOM	24115	C	HIE	1608	82.876	72.690	107.911	0.00	0.00
ATOM	24116	O	HIE	1608	83.954	72.256	108.286	0.00	0.00
ATOM	24117	N	VAL	1609	82.344	72.436	106.704	0.00	0.00
ATOM	24118	H	VAL	1609	81.448	72.848	106.484	0.00	0.00
ATOM	24119	CA	VAL	1609	82.974	71.736	105.614	0.00	0.00
ATOM	24120	HA	VAL	1609	83.241	70.757	106.013	0.00	0.00
ATOM	24121	CB	VAL	1609	82.092	71.478	104.338	0.00	0.00

ATOM	24122	HB	VAL	1609	81.821	72.383	103.795	0.00	0.00
ATOM	24123	CG1	VAL	1609	82.635	70.508	103.326	0.00	0.00
ATOM	24124	1HG1	VAL	1609	83.546	70.879	102.857	0.00	0.00
ATOM	24125	2HG1	VAL	1609	82.881	69.500	103.660	0.00	0.00
ATOM	24126	3HG1	VAL	1609	81.895	70.438	102.529	0.00	0.00
ATOM	24127	CG2	VAL	1609	80.731	70.915	104.728	0.00	0.00
ATOM	24128	1HG2	VAL	1609	80.055	70.798	103.882	0.00	0.00
ATOM	24129	2HG2	VAL	1609	81.026	69.961	105.164	0.00	0.00
ATOM	24130	3HG2	VAL	1609	80.298	71.657	105.400	0.00	0.00
ATOM	24131	C	VAL	1609	84.220	72.423	105.067	0.00	0.00
ATOM	24132	O	VAL	1609	85.173	71.759	104.524	0.00	0.00
ATOM	24133	N	LEU	1610	84.181	73.791	105.047	0.00	0.00
ATOM	24134	H	LEU	1610	83.276	74.230	105.138	0.00	0.00
ATOM	24135	CA	LEU	1610	85.382	74.539	104.582	0.00	0.00
ATOM	24136	HA	LEU	1610	86.312	73.972	104.552	0.00	0.00
ATOM	24137	CB	LEU	1610	85.179	74.896	103.135	0.00	0.00
ATOM	24138	HB2	LEU	1610	84.769	74.101	102.512	0.00	0.00
ATOM	24139	HB3	LEU	1610	84.432	75.690	103.156	0.00	0.00
ATOM	24140	CG	LEU	1610	86.428	75.364	102.301	0.00	0.00
ATOM	24141	HG	LEU	1610	86.977	76.141	102.832	0.00	0.00
ATOM	24142	CD1	LEU	1610	87.463	74.320	102.220	0.00	0.00
ATOM	24143	1HD1	LEU	1610	87.888	74.047	103.186	0.00	0.00
ATOM	24144	2HD1	LEU	1610	87.183	73.594	101.457	0.00	0.00
ATOM	24145	3HD1	LEU	1610	88.341	74.675	101.679	0.00	0.00
ATOM	24146	CD2	LEU	1610	86.003	75.861	100.828	0.00	0.00
ATOM	24147	1HD2	LEU	1610	85.852	75.031	100.139	0.00	0.00

ATOM	24148	2HD2	LEU	1610	85.130	76.508	100.917	0.00	0.00
ATOM	24149	3HD2	LEU	1610	86.792	76.512	100.449	0.00	0.00
ATOM	24150	C	LEU	1610	85.551	75.724	105.496	0.00	0.00
ATOM	24151	O	LEU	1610	84.585	76.459	105.710	0.00	0.00
ATOM	24152	N	THR	1611	86.730	75.851	106.090	0.00	0.00
ATOM	24153	H	THR	1611	87.521	75.307	105.778	0.00	0.00
ATOM	24154	CA	THR	1611	86.909	76.726	107.235	0.00	0.00
ATOM	24155	HA	THR	1611	85.957	77.177	107.516	0.00	0.00
ATOM	24156	CB	THR	1611	87.582	76.098	108.495	0.00	0.00
ATOM	24157	HB	THR	1611	87.586	76.928	109.202	0.00	0.00
ATOM	24158	CG2	THR	1611	86.588	75.134	109.065	0.00	0.00
ATOM	24159	1HG2	THR	1611	85.833	75.778	109.515	0.00	0.00
ATOM	24160	2HG2	THR	1611	85.981	74.575	108.352	0.00	0.00
ATOM	24161	3HG2	THR	1611	87.144	74.525	109.779	0.00	0.00
ATOM	24162	OG1	THR	1611	88.859	75.400	108.466	0.00	0.00
ATOM	24163	HG1	THR	1611	88.802	74.763	107.751	0.00	0.00
ATOM	24164	C	THR	1611	87.738	77.915	106.810	0.00	0.00
ATOM	24165	O	THR	1611	88.431	77.894	105.777	0.00	0.00
ATOM	24166	N	ARG	1612	87.686	79.015	107.537	0.00	0.00
ATOM	24167	H	ARG	1612	87.113	79.086	108.366	0.00	0.00
ATOM	24168	CA	ARG	1612	88.146	80.323	106.965	0.00	0.00
ATOM	24169	HA	ARG	1612	87.746	80.342	105.951	0.00	0.00
ATOM	24170	CB	ARG	1612	87.448	81.401	107.830	0.00	0.00
ATOM	24171	HB2	ARG	1612	86.396	81.497	107.561	0.00	0.00
ATOM	24172	HB3	ARG	1612	87.433	80.971	108.832	0.00	0.00
ATOM	24173	CG	ARG	1612	88.143	82.771	107.791	0.00	0.00

ATOM	24174	HG2	ARG	1612	89.165	82.639	108.146	0.00	0.00
ATOM	24175	HG3	ARG	1612	88.157	83.153	106.770	0.00	0.00
ATOM	24176	CD	ARG	1612	87.518	83.709	108.808	0.00	0.00
ATOM	24177	HD2	ARG	1612	87.519	83.279	109.810	0.00	0.00
ATOM	24178	HD3	ARG	1612	87.961	84.705	108.827	0.00	0.00
ATOM	24179	NE	ARG	1612	86.087	83.843	108.570	0.00	0.00
ATOM	24180	HE	ARG	1612	85.461	83.130	108.916	0.00	0.00
ATOM	24181	CZ	ARG	1612	85.420	84.880	108.057	0.00	0.00
ATOM	24182	NH1	ARG	1612	85.947	85.964	107.537	0.00	0.00
ATOM	24183	1HH1	ARG	1612	85.364	86.598	107.010	0.00	0.00
ATOM	24184	2HH1	ARG	1612	86.916	85.897	107.261	0.00	0.00
ATOM	24185	NH2	ARG	1612	84.093	84.867	108.137	0.00	0.00
ATOM	24186	1HH2	ARG	1612	83.617	85.666	107.744	0.00	0.00
ATOM	24187	2HH2	ARG	1612	83.701	84.226	108.811	0.00	0.00
ATOM	24188	C	ARG	1612	89.696	80.510	106.780	0.00	0.00
ATOM	24189	O	ARG	1612	90.245	81.404	106.177	0.00	0.00
ATOM	24190	N	GLU	1613	90.391	79.522	107.374	0.00	0.00
ATOM	24191	H	GLU	1613	89.923	78.809	107.915	0.00	0.00
ATOM	24192	CA	GLU	1613	91.822	79.398	107.171	0.00	0.00
ATOM	24193	HA	GLU	1613	92.218	80.413	107.149	0.00	0.00
ATOM	24194	CB	GLU	1613	92.513	78.755	108.344	0.00	0.00
ATOM	24195	HB2	GLU	1613	93.587	78.872	108.195	0.00	0.00
ATOM	24196	HB3	GLU	1613	92.277	79.266	109.278	0.00	0.00
ATOM	24197	CG	GLU	1613	92.147	77.223	108.444	0.00	0.00
ATOM	24198	HG2	GLU	1613	91.085	77.032	108.290	0.00	0.00
ATOM	24199	HG3	GLU	1613	92.683	76.805	107.591	0.00	0.00

ATOM	24200	CD	GLU	1613	92.487	76.768	109.866	0.00	0.00
ATOM	24201	OE1	GLU	1613	91.808	77.096	110.887	0.00	0.00
ATOM	24202	OE2	GLU	1613	93.536	76.072	110.004	0.00	0.00
ATOM	24203	C	GLU	1613	92.158	78.841	105.776	0.00	0.00
ATOM	24204	O	GLU	1613	93.297	78.539	105.445	0.00	0.00
ATOM	24205	N	GLN	1614	91.209	78.525	104.945	0.00	0.00
ATOM	24206	H	GLN	1614	90.239	78.661	105.191	0.00	0.00
ATOM	24207	CA	GLN	1614	91.382	77.664	103.748	0.00	0.00
ATOM	24208	HA	GLN	1614	92.459	77.575	103.611	0.00	0.00
ATOM	24209	CB	GLN	1614	90.627	76.319	103.982	0.00	0.00
ATOM	24210	HB2	GLN	1614	89.546	76.452	104.027	0.00	0.00
ATOM	24211	HB3	GLN	1614	90.862	75.635	103.167	0.00	0.00
ATOM	24212	CG	GLN	1614	91.037	75.531	105.261	0.00	0.00
ATOM	24213	HG2	GLN	1614	92.110	75.352	105.178	0.00	0.00
ATOM	24214	HG3	GLN	1614	91.041	76.222	106.104	0.00	0.00
ATOM	24215	CD	GLN	1614	90.166	74.276	105.497	0.00	0.00
ATOM	24216	OE1	GLN	1614	89.016	74.365	106.029	0.00	0.00
ATOM	24217	NE2	GLN	1614	90.583	73.077	105.080	0.00	0.00
ATOM	24218	1HE2	GLN	1614	89.917	72.338	104.910	0.00	0.00
ATOM	24219	2HE2	GLN	1614	91.527	72.961	104.740	0.00	0.00
ATOM	24220	C	GLN	1614	90.936	78.384	102.527	0.00	0.00
ATOM	24221	O	GLN	1614	90.889	77.741	101.463	0.00	0.00
ATOM	24222	N	VAL	1615	90.488	79.649	102.625	0.00	0.00
ATOM	24223	H	VAL	1615	90.571	80.196	103.470	0.00	0.00
ATOM	24224	CA	VAL	1615	89.878	80.385	101.501	0.00	0.00
ATOM	24225	HA	VAL	1615	90.118	79.932	100.539	0.00	0.00

ATOM	24226	CB	VAL	1615	88.351	80.502	101.637	0.00	0.00
ATOM	24227	HB	VAL	1615	87.964	81.077	100.796	0.00	0.00
ATOM	24228	CG1	VAL	1615	87.714	79.086	101.555	0.00	0.00
ATOM	24229	1HG1	VAL	1615	88.119	78.369	102.269	0.00	0.00
ATOM	24230	2HG1	VAL	1615	86.631	79.141	101.667	0.00	0.00
ATOM	24231	3HG1	VAL	1615	87.885	78.817	100.513	0.00	0.00
ATOM	24232	CG2	VAL	1615	87.754	81.284	102.757	0.00	0.00
ATOM	24233	1HG2	VAL	1615	86.705	81.448	102.508	0.00	0.00
ATOM	24234	2HG2	VAL	1615	87.940	80.698	103.657	0.00	0.00
ATOM	24235	3HG2	VAL	1615	88.213	82.262	102.901	0.00	0.00
ATOM	24236	C	VAL	1615	90.452	81.809	101.334	0.00	0.00
ATOM	24237	O	VAL	1615	91.068	82.321	102.276	0.00	0.00
ATOM	24238	N	MET	1616	90.434	82.321	100.102	0.00	0.00
ATOM	24239	H	MET	1616	89.944	81.781	99.403	0.00	0.00
ATOM	24240	CA	MET	1616	91.172	83.499	99.778	0.00	0.00
ATOM	24241	HA	MET	1616	92.207	83.358	100.091	0.00	0.00
ATOM	24242	CB	MET	1616	91.165	83.686	98.213	0.00	0.00
ATOM	24243	HB2	MET	1616	90.152	83.686	97.811	0.00	0.00
ATOM	24244	HB3	MET	1616	91.544	84.674	97.952	0.00	0.00
ATOM	24245	CG	MET	1616	91.946	82.624	97.528	0.00	0.00
ATOM	24246	HG2	MET	1616	92.985	82.662	97.858	0.00	0.00
ATOM	24247	HG3	MET	1616	91.529	81.647	97.772	0.00	0.00
ATOM	24248	SD	MET	1616	91.779	82.792	95.738	0.00	0.00
ATOM	24249	CE	MET	1616	93.396	83.671	95.348	0.00	0.00
ATOM	24250	HE1	MET	1616	93.789	83.524	94.342	0.00	0.00
ATOM	24251	HE2	MET	1616	93.199	84.726	95.539	0.00	0.00



ATOM	24252	HE3	MET	1616	94.237	83.253	95.901	0.00	0.00
ATOM	24253	C	MET	1616	90.616	84.754	100.509	0.00	0.00
ATOM	24254	O	MET	1616	89.425	84.906	100.790	0.00	0.00
ATOM	24255	N	GLU	1617	91.432	85.803	100.684	0.00	0.00
ATOM	24256	H	GLU	1617	92.386	85.720	100.363	0.00	0.00
ATOM	24257	CA	GLU	1617	91.022	87.090	101.410	0.00	0.00
ATOM	24258	HA	GLU	1617	90.713	86.870	102.432	0.00	0.00
ATOM	24259	CB	GLU	1617	92.217	88.016	101.366	0.00	0.00
ATOM	24260	HB2	GLU	1617	93.017	87.640	102.004	0.00	0.00
ATOM	24261	HB3	GLU	1617	92.566	87.871	100.344	0.00	0.00
ATOM	24262	CG	GLU	1617	92.062	89.548	101.667	0.00	0.00
ATOM	24263	HG2	GLU	1617	93.001	90.039	101.413	0.00	0.00
ATOM	24264	HG3	GLU	1617	91.317	89.961	100.986	0.00	0.00
ATOM	24265	CD	GLU	1617	91.751	89.878	103.143	0.00	0.00
ATOM	24266	OE1	GLU	1617	90.595	89.673	103.597	0.00	0.00
ATOM	24267	OE2	GLU	1617	92.688	90.315	103.868	0.00	0.00
ATOM	24268	C	GLU	1617	89.724	87.635	100.766	0.00	0.00
ATOM	24269	O	GLU	1617	89.581	87.700	99.558	0.00	0.00
ATOM	24270	N	GLY	1618	88.753	88.165	101.560	0.00	0.00
ATOM	24271	H	GLY	1618	88.892	87.992	102.545	0.00	0.00
ATOM	24272	CA	GLY	1618	87.410	88.619	101.127	0.00	0.00
ATOM	24273	HA2	GLY	1618	86.953	89.379	101.761	0.00	0.00
ATOM	24274	HA3	GLY	1618	87.382	89.074	100.137	0.00	0.00
ATOM	24275	C	GLY	1618	86.424	87.457	100.940	0.00	0.00
ATOM	24276	O	GLY	1618	85.248	87.695	101.178	0.00	0.00
ATOM	24277	N	VAL	1619	86.869	86.242	100.622	0.00	0.00

ATOM	24278	H	VAL	1619	87.852	86.119	100.424	0.00	0.00
ATOM	24279	CA	VAL	1619	85.981	85.210	100.012	0.00	0.00
ATOM	24280	HA	VAL	1619	85.340	85.643	99.245	0.00	0.00
ATOM	24281	CB	VAL	1619	86.722	84.023	99.372	0.00	0.00
ATOM	24282	HB	VAL	1619	87.380	83.683	100.172	0.00	0.00
ATOM	24283	CG1	VAL	1619	85.781	82.884	99.021	0.00	0.00
ATOM	24284	1HG1	VAL	1619	86.352	82.036	98.642	0.00	0.00
ATOM	24285	2HG1	VAL	1619	85.273	82.515	99.912	0.00	0.00
ATOM	24286	3HG1	VAL	1619	85.097	83.084	98.197	0.00	0.00
ATOM	24287	CG2	VAL	1619	87.409	84.489	98.038	0.00	0.00
ATOM	24288	1HG2	VAL	1619	88.109	85.306	98.215	0.00	0.00
ATOM	24289	2HG2	VAL	1619	87.863	83.557	97.702	0.00	0.00
ATOM	24290	3HG2	VAL	1619	86.732	84.781	97.235	0.00	0.00
ATOM	24291	C	VAL	1619	84.764	84.870	100.899	0.00	0.00
ATOM	24292	O	VAL	1619	83.612	84.914	100.448	0.00	0.00
ATOM	24293	N	PRO	1620	84.985	84.669	102.224	0.00	0.00
ATOM	24294	CD	PRO	1620	86.220	84.690	103.024	0.00	0.00
ATOM	24295	HD2	PRO	1620	87.021	84.190	102.478	0.00	0.00
ATOM	24296	HD3	PRO	1620	86.425	85.755	103.125	0.00	0.00
ATOM	24297	CG	PRO	1620	86.020	84.015	104.379	0.00	0.00
ATOM	24298	HG2	PRO	1620	86.273	82.955	104.356	0.00	0.00
ATOM	24299	HG3	PRO	1620	86.455	84.576	105.205	0.00	0.00
ATOM	24300	CB	PRO	1620	84.567	84.248	104.472	0.00	0.00
ATOM	24301	HB2	PRO	1620	84.185	83.353	104.962	0.00	0.00
ATOM	24302	HB3	PRO	1620	84.340	85.110	105.099	0.00	0.00
ATOM	24303	CA	PRO	1620	83.865	84.387	103.143	0.00	0.00

ATOM	24304	HA	PRO	1620	83.449	83.400	102.943	0.00	0.00
ATOM	24305	C	PRO	1620	82.695	85.345	103.259	0.00	0.00
ATOM	24306	O	PRO	1620	81.581	84.860	103.291	0.00	0.00
ATOM	24307	N	GLU	1621	82.941	86.644	103.196	0.00	0.00
ATOM	24308	H	GLU	1621	83.873	87.032	103.156	0.00	0.00
ATOM	24309	CA	GLU	1621	81.842	87.724	103.225	0.00	0.00
ATOM	24310	HA	GLU	1621	81.056	87.376	103.896	0.00	0.00
ATOM	24311	CB	GLU	1621	82.439	88.992	103.865	0.00	0.00
ATOM	24312	HB2	GLU	1621	83.455	89.148	103.500	0.00	0.00
ATOM	24313	HB3	GLU	1621	81.722	89.767	103.595	0.00	0.00
ATOM	24314	CG	GLU	1621	82.516	88.901	105.385	0.00	0.00
ATOM	24315	HG2	GLU	1621	82.963	89.841	105.708	0.00	0.00
ATOM	24316	HG3	GLU	1621	81.523	88.791	105.821	0.00	0.00
ATOM	24317	CD	GLU	1621	83.350	87.760	105.944	0.00	0.00
ATOM	24318	OE1	GLU	1621	82.884	86.924	106.742	0.00	0.00
ATOM	24319	OE2	GLU	1621	84.531	87.688	105.551	0.00	0.00
ATOM	24320	C	GLU	1621	81.301	88.027	101.835	0.00	0.00
ATOM	24321	O	GLU	1621	80.219	88.474	101.645	0.00	0.00
ATOM	24322	N	MET	1622	82.020	87.600	100.793	0.00	0.00
ATOM	24323	H	MET	1622	82.885	87.118	100.993	0.00	0.00
ATOM	24324	CA	MET	1622	81.566	87.455	99.412	0.00	0.00
ATOM	24325	HA	MET	1622	81.123	88.439	99.260	0.00	0.00
ATOM	24326	CB	MET	1622	82.654	87.230	98.274	0.00	0.00
ATOM	24327	HB2	MET	1622	83.245	86.391	98.643	0.00	0.00
ATOM	24328	HB3	MET	1622	82.186	86.981	97.322	0.00	0.00
ATOM	24329	CG	MET	1622	83.652	88.365	98.063	0.00	0.00

ATOM	24330	HG2	MET	1622	83.185	88.909	97.242	0.00	0.00
ATOM	24331	HG3	MET	1622	83.834	89.106	98.841	0.00	0.00
ATOM	24332	SD	MET	1622	85.265	87.838	97.436	0.00	0.00
ATOM	24333	CE	MET	1622	84.878	87.494	95.656	0.00	0.00
ATOM	24334	HE1	MET	1622	85.790	87.242	95.115	0.00	0.00
ATOM	24335	HE2	MET	1622	84.296	86.574	95.725	0.00	0.00
ATOM	24336	HE3	MET	1622	84.340	88.308	95.171	0.00	0.00
ATOM	24337	C	MET	1622	80.446	86.447	99.237	0.00	0.00
ATOM	24338	O	MET	1622	79.793	86.502	98.180	0.00	0.00
ATOM	24339	N	ILE	1623	80.191	85.560	100.240	0.00	0.00
ATOM	24340	H	ILE	1623	80.897	85.482	100.959	0.00	0.00
ATOM	24341	CA	ILE	1623	79.303	84.405	100.075	0.00	0.00
ATOM	24342	HA	ILE	1623	78.718	84.514	99.162	0.00	0.00
ATOM	24343	CB	ILE	1623	80.203	83.183	99.921	0.00	0.00
ATOM	24344	HB	ILE	1623	80.810	83.184	100.826	0.00	0.00
ATOM	24345	CG2	ILE	1623	79.335	81.949	99.836	0.00	0.00
ATOM	24346	1HG2	ILE	1623	78.399	82.167	100.350	0.00	0.00
ATOM	24347	2HG2	ILE	1623	79.131	81.795	98.777	0.00	0.00
ATOM	24348	3HG2	ILE	1623	79.807	81.024	100.166	0.00	0.00
ATOM	24349	CG1	ILE	1623	81.038	83.243	98.669	0.00	0.00
ATOM	24350	2HG1	ILE	1623	80.371	83.461	97.835	0.00	0.00
ATOM	24351	3HG1	ILE	1623	81.713	84.098	98.723	0.00	0.00
ATOM	24352	CD1	ILE	1623	81.903	82.085	98.266	0.00	0.00
ATOM	24353	1HD1	ILE	1623	81.256	81.224	98.099	0.00	0.00
ATOM	24354	2HD1	ILE	1623	82.521	82.263	97.386	0.00	0.00
ATOM	24355	3HD1	ILE	1623	82.493	81.749	99.119	0.00	0.00

ATOM	24356	C	ILE	1623	78.388	84.511	101.339	0.00	0.00
ATOM	24357	O	ILE	1623	78.670	83.920	102.371	0.00	0.00
ATOM	24358	N	PRO	1624	77.228	85.174	101.235	0.00	0.00
ATOM	24359	CD	PRO	1624	76.743	86.054	100.245	0.00	0.00
ATOM	24360	HD2	PRO	1624	77.559	86.354	99.588	0.00	0.00
ATOM	24361	HD3	PRO	1624	75.888	85.536	99.810	0.00	0.00
ATOM	24362	CG	PRO	1624	76.196	87.242	101.043	0.00	0.00
ATOM	24363	HG2	PRO	1624	77.057	87.861	101.298	0.00	0.00
ATOM	24364	HG3	PRO	1624	75.472	87.789	100.439	0.00	0.00
ATOM	24365	CB	PRO	1624	75.588	86.593	102.311	0.00	0.00
ATOM	24366	HB2	PRO	1624	75.760	87.259	103.157	0.00	0.00
ATOM	24367	HB3	PRO	1624	74.556	86.387	102.026	0.00	0.00
ATOM	24368	CA	PRO	1624	76.358	85.324	102.442	0.00	0.00
ATOM	24369	HA	PRO	1624	76.957	85.477	103.339	0.00	0.00
ATOM	24370	C	PRO	1624	75.420	84.035	102.690	0.00	0.00
ATOM	24371	O	PRO	1624	74.933	83.816	103.770	0.00	0.00
ATOM	24372	N	ASP	1625	75.117	83.324	101.613	0.00	0.00
ATOM	24373	H	ASP	1625	75.559	83.632	100.758	0.00	0.00
ATOM	24374	CA	ASP	1625	74.490	81.967	101.599	0.00	0.00
ATOM	24375	HA	ASP	1625	74.729	81.357	102.470	0.00	0.00
ATOM	24376	CB	ASP	1625	72.964	82.185	101.582	0.00	0.00
ATOM	24377	HB2	ASP	1625	72.453	81.249	101.808	0.00	0.00
ATOM	24378	HB3	ASP	1625	72.674	82.825	102.415	0.00	0.00
ATOM	24379	CG	ASP	1625	72.608	82.946	100.226	0.00	0.00
ATOM	24380	OD1	ASP	1625	72.251	82.153	99.311	0.00	0.00
ATOM	24381	OD2	ASP	1625	72.855	84.148	99.945	0.00	0.00

ATOM	24382	C	ASP	1625	74.933	81.246	100.365	0.00	0.00
ATOM	24383	O	ASP	1625	75.692	81.755	99.474	0.00	0.00
ATOM	24384	N	ILE	1626	74.437	80.014	100.317	0.00	0.00
ATOM	24385	H	ILE	1626	73.950	79.707	101.147	0.00	0.00
ATOM	24386	CA	ILE	1626	74.130	79.118	99.210	0.00	0.00
ATOM	24387	HA	ILE	1626	74.123	79.715	98.298	0.00	0.00
ATOM	24388	CB	ILE	1626	75.237	77.947	99.194	0.00	0.00
ATOM	24389	HB	ILE	1626	75.218	77.457	100.167	0.00	0.00
ATOM	24390	CG2	ILE	1626	75.001	76.890	98.146	0.00	0.00
ATOM	24391	1HG2	ILE	1626	75.819	76.184	98.288	0.00	0.00
ATOM	24392	2HG2	ILE	1626	74.020	76.436	98.284	0.00	0.00
ATOM	24393	3HG2	ILE	1626	75.032	77.255	97.119	0.00	0.00
ATOM	24394	CG1	ILE	1626	76.661	78.511	99.030	0.00	0.00
ATOM	24395	2HG1	ILE	1626	76.855	78.828	98.005	0.00	0.00
ATOM	24396	3HG1	ILE	1626	76.815	79.377	99.673	0.00	0.00
ATOM	24397	CD1	ILE	1626	77.716	77.444	99.462	0.00	0.00
ATOM	24398	1HD1	ILE	1626	78.718	77.859	99.568	0.00	0.00
ATOM	24399	2HD1	ILE	1626	77.521	77.057	100.462	0.00	0.00
ATOM	24400	3HD1	ILE	1626	77.739	76.576	98.802	0.00	0.00
ATOM	24401	C	ILE	1626	72.746	78.535	99.337	0.00	0.00
ATOM	24402	O	ILE	1626	72.356	78.206	100.420	0.00	0.00
ATOM	24403	N	GLN	1627	72.031	78.335	98.194	0.00	0.00
ATOM	24404	H	GLN	1627	72.396	78.612	97.295	0.00	0.00
ATOM	24405	CA	GLN	1627	70.973	77.397	98.125	0.00	0.00
ATOM	24406	HA	GLN	1627	70.698	77.152	99.151	0.00	0.00
ATOM	24407	CB	GLN	1627	69.743	78.101	97.510	0.00	0.00

ATOM	24408	HB2	GLN	1627	70.059	78.759	96.701	0.00	0.00
ATOM	24409	HB3	GLN	1627	69.084	77.324	97.122	0.00	0.00
ATOM	24410	CG	GLN	1627	68.979	78.802	98.636	0.00	0.00
ATOM	24411	HG2	GLN	1627	68.627	77.972	99.249	0.00	0.00
ATOM	24412	HG3	GLN	1627	69.634	79.463	99.203	0.00	0.00
ATOM	24413	CD	GLN	1627	67.783	79.557	97.960	0.00	0.00
ATOM	24414	OE1	GLN	1627	67.867	80.265	96.998	0.00	0.00
ATOM	24415	NE2	GLN	1627	66.636	79.508	98.549	0.00	0.00
ATOM	24416	1HE2	GLN	1627	65.902	79.982	98.043	0.00	0.00
ATOM	24417	2HE2	GLN	1627	66.411	79.170	99.474	0.00	0.00
ATOM	24418	C	GLN	1627	71.366	76.168	97.273	0.00	0.00
ATOM	24419	O	GLN	1627	71.985	76.308	96.202	0.00	0.00
ATOM	24420	N	VAL	1628	70.912	74.976	97.620	0.00	0.00
ATOM	24421	H	VAL	1628	70.210	74.927	98.345	0.00	0.00
ATOM	24422	CA	VAL	1628	71.046	73.746	96.805	0.00	0.00
ATOM	24423	HA	VAL	1628	71.415	74.023	95.817	0.00	0.00
ATOM	24424	CB	VAL	1628	72.091	72.765	97.356	0.00	0.00
ATOM	24425	HB	VAL	1628	71.673	71.977	97.983	0.00	0.00
ATOM	24426	CG1	VAL	1628	72.524	71.777	96.203	0.00	0.00
ATOM	24427	1HG1	VAL	1628	73.406	71.201	96.481	0.00	0.00
ATOM	24428	2HG1	VAL	1628	71.706	71.141	95.863	0.00	0.00
ATOM	24429	3HG1	VAL	1628	72.890	72.339	95.343	0.00	0.00
ATOM	24430	CG2	VAL	1628	73.230	73.552	98.038	0.00	0.00
ATOM	24431	1HG2	VAL	1628	73.961	72.764	98.218	0.00	0.00
ATOM	24432	2HG2	VAL	1628	73.487	74.407	97.413	0.00	0.00
ATOM	24433	3HG2	VAL	1628	72.876	73.887	99.013	0.00	0.00

ATOM 24434	C	VAL	1628	69.743	73.030	96.794	0.00	0.00
ATOM 24435	O	VAL	1628	69.187	72.911	97.848	0.00	0.00
ATOM 24436	N	GLU	1629	69.364	72.412	95.679	0.00	0.00
ATOM 24437	H	GLU	1629	69.837	72.548	94.797	0.00	0.00
ATOM 24438	CA	GLU	1629	68.426	71.321	95.772	0.00	0.00
ATOM 24439	HA	GLU	1629	67.984	71.291	96.767	0.00	0.00
ATOM 24440	CB	GLU	1629	67.254	71.468	94.802	0.00	0.00
ATOM 24441	HB2	GLU	1629	67.565	71.716	93.787	0.00	0.00
ATOM 24442	HB3	GLU	1629	66.875	70.469	94.588	0.00	0.00
ATOM 24443	CG	GLU	1629	65.950	72.332	95.220	0.00	0.00
ATOM 24444	HG2	GLU	1629	66.189	73.395	95.207	0.00	0.00
ATOM 24445	HG3	GLU	1629	65.791	72.207	96.291	0.00	0.00
ATOM 24446	CD	GLU	1629	64.607	72.010	94.499	0.00	0.00
ATOM 24447	OE1	GLU	1629	63.779	72.892	94.494	0.00	0.00
ATOM 24448	OE2	GLU	1629	64.265	70.847	94.138	0.00	0.00
ATOM 24449	C	GLU	1629	69.170	70.041	95.539	0.00	0.00
ATOM 24450	O	GLU	1629	69.769	69.919	94.525	0.00	0.00
ATOM 24451	N	ALA	1630	68.845	68.941	96.266	0.00	0.00
ATOM 24452	H	ALA	1630	68.257	69.055	97.080	0.00	0.00
ATOM 24453	CA	ALA	1630	69.213	67.612	95.994	0.00	0.00
ATOM 24454	HA	ALA	1630	69.663	67.510	95.007	0.00	0.00
ATOM 24455	CB	ALA	1630	70.411	67.405	96.958	0.00	0.00
ATOM 24456	HB1	ALA	1630	70.260	67.735	97.986	0.00	0.00
ATOM 24457	HB2	ALA	1630	70.636	66.345	96.836	0.00	0.00
ATOM 24458	HB3	ALA	1630	71.313	67.909	96.613	0.00	0.00
ATOM 24459	C	ALA	1630	68.183	66.524	96.398	0.00	0.00



ATOM	24460	O	ALA	1630	67.206	66.790	97.115	0.00	0.00
ATOM	24461	N	THR	1631	68.300	65.270	95.925	0.00	0.00
ATOM	24462	H	THR	1631	69.081	65.148	95.295	0.00	0.00
ATOM	24463	CA	THR	1631	67.323	64.165	96.138	0.00	0.00
ATOM	24464	HA	THR	1631	66.343	64.633	96.040	0.00	0.00
ATOM	24465	CB	THR	1631	67.353	63.046	95.046	0.00	0.00
ATOM	24466	HB	THR	1631	68.300	62.546	94.839	0.00	0.00
ATOM	24467	CG2	THR	1631	66.103	62.117	95.087	0.00	0.00
ATOM	24468	1HG2	THR	1631	66.068	61.770	96.120	0.00	0.00
ATOM	24469	2HG2	THR	1631	65.147	62.607	94.901	0.00	0.00
ATOM	24470	3HG2	THR	1631	66.081	61.363	94.301	0.00	0.00
ATOM	24471	OG1	THR	1631	67.082	63.799	93.847	0.00	0.00
ATOM	24472	HG1	THR	1631	67.890	64.211	93.533	0.00	0.00
ATOM	24473	C	THR	1631	67.589	63.569	97.529	0.00	0.00
ATOM	24474	O	THR	1631	68.372	62.647	97.701	0.00	0.00
ATOM	24475	N	PHE	1632	66.953	64.120	98.591	0.00	0.00
ATOM	24476	H	PHE	1632	66.217	64.766	98.346	0.00	0.00
ATOM	24477	CA	PHE	1632	66.668	63.519	99.864	0.00	0.00
ATOM	24478	HA	PHE	1632	67.599	63.141	100.287	0.00	0.00
ATOM	24479	CB	PHE	1632	65.972	64.622	100.776	0.00	0.00
ATOM	24480	HB2	PHE	1632	65.194	65.128	100.205	0.00	0.00
ATOM	24481	HB3	PHE	1632	65.470	64.260	101.673	0.00	0.00
ATOM	24482	CG	PHE	1632	66.861	65.785	101.195	0.00	0.00
ATOM	24483	CD1	PHE	1632	67.500	65.855	102.424	0.00	0.00
ATOM	24484	HD1	PHE	1632	67.388	65.072	103.159	0.00	0.00
ATOM	24485	CE1	PHE	1632	68.501	66.815	102.742	0.00	0.00

ATOM	24486	HE1	PHE	1632	69.208	66.699	103.550	0.00	0.00
ATOM	24487	CZ	PHE	1632	68.726	67.840	101.806	0.00	0.00
ATOM	24488	HZ	PHE	1632	69.526	68.561	101.886	0.00	0.00
ATOM	24489	CE2	PHE	1632	68.016	67.818	100.600	0.00	0.00
ATOM	24490	HE2	PHE	1632	68.205	68.527	99.808	0.00	0.00
ATOM	24491	CD2	PHE	1632	67.181	66.818	100.329	0.00	0.00
ATOM	24492	HD2	PHE	1632	66.673	66.942	99.384	0.00	0.00
ATOM	24493	C	PHE	1632	65.794	62.265	99.769	0.00	0.00
ATOM	24494	O	PHE	1632	65.093	62.144	98.762	0.00	0.00
ATOM	24495	N	PRO	1633	65.735	61.386	100.805	0.00	0.00
ATOM	24496	CD	PRO	1633	66.641	61.399	101.941	0.00	0.00
ATOM	24497	HD2	PRO	1633	66.476	62.206	102.655	0.00	0.00
ATOM	24498	HD3	PRO	1633	67.680	61.318	101.622	0.00	0.00
ATOM	24499	CG	PRO	1633	66.235	60.087	102.662	0.00	0.00
ATOM	24500	HG2	PRO	1633	67.063	59.454	102.342	0.00	0.00
ATOM	24501	HG3	PRO	1633	66.166	60.093	103.750	0.00	0.00
ATOM	24502	CB	PRO	1633	64.876	59.660	102.011	0.00	0.00
ATOM	24503	HB2	PRO	1633	64.716	58.587	102.113	0.00	0.00
ATOM	24504	HB3	PRO	1633	64.102	60.169	102.585	0.00	0.00
ATOM	24505	CA	PRO	1633	64.866	60.202	100.635	0.00	0.00
ATOM	24506	HA	PRO	1633	65.261	59.452	99.951	0.00	0.00
ATOM	24507	C	PRO	1633	63.314	60.409	100.249	0.00	0.00
ATOM	24508	O	PRO	1633	62.714	59.369	99.972	0.00	0.00
ATOM	24509	N	ASP	1634	62.778	61.618	100.314	0.00	0.00
ATOM	24510	H	ASP	1634	63.220	62.426	100.727	0.00	0.00
ATOM	24511	CA	ASP	1634	61.386	61.915	99.705	0.00	0.00

ATOM	24512	HA	ASP	1634	60.880	60.949	99.689	0.00	0.00
ATOM	24513	CB	ASP	1634	60.486	62.725	100.679	0.00	0.00
ATOM	24514	HB2	ASP	1634	59.422	62.488	100.669	0.00	0.00
ATOM	24515	HB3	ASP	1634	60.808	62.425	101.676	0.00	0.00
ATOM	24516	CG	ASP	1634	60.748	64.249	100.577	0.00	0.00
ATOM	24517	OD1	ASP	1634	60.909	64.878	101.662	0.00	0.00
ATOM	24518	OD2	ASP	1634	60.892	64.728	99.467	0.00	0.00
ATOM	24519	C	ASP	1634	61.369	62.308	98.175	0.00	0.00
ATOM	24520	O	ASP	1634	60.321	62.157	97.516	0.00	0.00
ATOM	24521	N	GLY	1635	62.539	62.751	97.633	0.00	0.00
ATOM	24522	H	GLY	1635	63.382	62.730	98.189	0.00	0.00
ATOM	24523	CA	GLY	1635	62.629	63.355	96.302	0.00	0.00
ATOM	24524	HA2	GLY	1635	63.059	62.660	95.581	0.00	0.00
ATOM	24525	HA3	GLY	1635	61.655	63.707	95.963	0.00	0.00
ATOM	24526	C	GLY	1635	63.518	64.567	96.381	0.00	0.00
ATOM	24527	O	GLY	1635	64.208	64.837	97.356	0.00	0.00
ATOM	24528	N	SER	1636	63.524	65.391	95.327	0.00	0.00
ATOM	24529	H	SER	1636	62.942	65.291	94.508	0.00	0.00
ATOM	24530	CA	SER	1636	64.353	66.655	95.422	0.00	0.00
ATOM	24531	HA	SER	1636	65.322	66.429	95.866	0.00	0.00
ATOM	24532	CB	SER	1636	64.452	67.322	94.056	0.00	0.00
ATOM	24533	HB2	SER	1636	64.980	66.619	93.412	0.00	0.00
ATOM	24534	HB3	SER	1636	63.486	67.538	93.601	0.00	0.00
ATOM	24535	OG	SER	1636	65.349	68.396	94.110	0.00	0.00
ATOM	24536	HG	SER	1636	64.937	69.236	94.326	0.00	0.00
ATOM	24537	C	SER	1636	63.754	67.729	96.321	0.00	0.00

ATOM	24538	O	SER	1636	62.562	67.998	96.316	0.00	0.00
ATOM	24539	N	LYS	1637	64.570	68.167	97.290	0.00	0.00
ATOM	24540	H	LYS	1637	65.539	67.883	97.285	0.00	0.00
ATOM	24541	CA	LYS	1637	64.220	69.178	98.253	0.00	0.00
ATOM	24542	HA	LYS	1637	63.289	69.639	97.923	0.00	0.00
ATOM	24543	CB	LYS	1637	63.774	68.518	99.614	0.00	0.00
ATOM	24544	HB2	LYS	1637	64.600	67.994	100.096	0.00	0.00
ATOM	24545	HB3	LYS	1637	63.537	69.356	100.270	0.00	0.00
ATOM	24546	CG	LYS	1637	62.513	67.634	99.553	0.00	0.00
ATOM	24547	HG2	LYS	1637	62.674	66.871	98.792	0.00	0.00
ATOM	24548	HG3	LYS	1637	62.461	67.092	100.498	0.00	0.00
ATOM	24549	CD	LYS	1637	61.283	68.548	99.396	0.00	0.00
ATOM	24550	HD2	LYS	1637	61.212	69.342	100.140	0.00	0.00
ATOM	24551	HD3	LYS	1637	61.206	69.014	98.414	0.00	0.00
ATOM	24552	CE	LYS	1637	59.928	67.806	99.504	0.00	0.00
ATOM	24553	HE2	LYS	1637	59.859	66.977	98.800	0.00	0.00
ATOM	24554	HE3	LYS	1637	59.834	67.396	100.510	0.00	0.00
ATOM	24555	NZ	LYS	1637	58.786	68.805	99.322	0.00	0.00
ATOM	24556	HZ1	LYS	1637	59.070	69.771	99.406	0.00	0.00
ATOM	24557	HZ2	LYS	1637	58.443	68.793	98.373	0.00	0.00
ATOM	24558	HZ3	LYS	1637	58.000	68.512	99.885	0.00	0.00
ATOM	24559	C	LYS	1637	65.390	70.236	98.418	0.00	0.00
ATOM	24560	O	LYS	1637	66.601	70.014	98.235	0.00	0.00
ATOM	24561	N	LEU	1638	64.931	71.368	98.879	0.00	0.00
ATOM	24562	H	LEU	1638	63.944	71.427	99.087	0.00	0.00
ATOM	24563	CA	LEU	1638	65.641	72.678	99.062	0.00	0.00

ATOM 24564	HA	LEU	1638	66.451	72.787	98.342	0.00	0.00
ATOM 24565	CB	LEU	1638	64.716	73.809	98.723	0.00	0.00
ATOM 24566	HB2	LEU	1638	64.502	73.666	97.664	0.00	0.00
ATOM 24567	HB3	LEU	1638	63.720	73.647	99.135	0.00	0.00
ATOM 24568	CG	LEU	1638	65.003	75.290	98.944	0.00	0.00
ATOM 24569	HG	LEU	1638	65.296	75.477	99.977	0.00	0.00
ATOM 24570	CD1	LEU	1638	66.256	75.540	98.165	0.00	0.00
ATOM 24571	1HD1	LEU	1638	66.149	75.127	97.162	0.00	0.00
ATOM 24572	2HD1	LEU	1638	66.487	76.600	98.061	0.00	0.00
ATOM 24573	3HD1	LEU	1638	67.088	75.021	98.640	0.00	0.00
ATOM 24574	CD2	LEU	1638	63.809	76.199	98.548	0.00	0.00
ATOM 24575	1HD2	LEU	1638	63.064	76.083	99.335	0.00	0.00
ATOM 24576	2HD2	LEU	1638	64.179	77.210	98.382	0.00	0.00
ATOM 24577	3HD2	LEU	1638	63.446	75.756	97.620	0.00	0.00
ATOM 24578	C	LEU	1638	66.182	72.902	100.484	0.00	0.00
ATOM 24579	O	LEU	1638	65.458	72.883	101.451	0.00	0.00
ATOM 24580	N	VAL	1639	67.479	73.209	100.559	0.00	0.00
ATOM 24581	H	VAL	1639	67.973	73.133	99.681	0.00	0.00
ATOM 24582	CA	VAL	1639	68.216	73.787	101.667	0.00	0.00
ATOM 24583	HA	VAL	1639	67.535	73.837	102.517	0.00	0.00
ATOM 24584	CB	VAL	1639	69.367	72.883	102.125	0.00	0.00
ATOM 24585	HB	VAL	1639	70.117	72.807	101.337	0.00	0.00
ATOM 24586	CG1	VAL	1639	70.068	73.455	103.339	0.00	0.00
ATOM 24587	1HG1	VAL	1639	70.869	72.788	103.657	0.00	0.00
ATOM 24588	2HG1	VAL	1639	70.506	74.421	103.091	0.00	0.00
ATOM 24589	3HG1	VAL	1639	69.386	73.473	104.189	0.00	0.00

ATOM	24590	CG2 VAL	1639	68.974	71.466	102.389	0.00	0.00
ATOM	24591	1HG2 VAL	1639	69.639	71.089	103.167	0.00	0.00
ATOM	24592	2HG2 VAL	1639	67.914	71.351	102.613	0.00	0.00
ATOM	24593	3HG2 VAL	1639	69.064	70.895	101.465	0.00	0.00
ATOM	24594	C VAL	1639	68.701	75.188	101.296	0.00	0.00
ATOM	24595	O VAL	1639	69.168	75.412	100.153	0.00	0.00
ATOM	24596	N THR	1640	68.578	76.097	102.182	0.00	0.00
ATOM	24597	H THR	1640	67.886	75.969	102.907	0.00	0.00
ATOM	24598	CA THR	1640	69.409	77.298	102.273	0.00	0.00
ATOM	24599	HA THR	1640	69.935	77.320	101.319	0.00	0.00
ATOM	24600	CB THR	1640	68.721	78.727	102.327	0.00	0.00
ATOM	24601	HB THR	1640	68.395	78.826	103.362	0.00	0.00
ATOM	24602	CG2 THR	1640	69.712	79.876	102.110	0.00	0.00
ATOM	24603	1HG2 THR	1640	70.540	79.570	101.469	0.00	0.00
ATOM	24604	2HG2 THR	1640	69.256	80.756	101.656	0.00	0.00
ATOM	24605	3HG2 THR	1640	70.081	80.303	103.042	0.00	0.00
ATOM	24606	OG1 THR	1640	67.708	78.920	101.431	0.00	0.00
ATOM	24607	HG1 THR	1640	66.921	79.083	101.956	0.00	0.00
ATOM	24608	C THR	1640	70.413	77.214	103.420	0.00	0.00
ATOM	24609	O THR	1640	70.072	77.209	104.628	0.00	0.00
ATOM	24610	N VAL	1641	71.714	77.314	103.049	0.00	0.00
ATOM	24611	H VAL	1641	71.922	77.542	102.088	0.00	0.00
ATOM	24612	CA VAL	1641	72.853	77.318	103.915	0.00	0.00
ATOM	24613	HA VAL	1641	72.511	76.807	104.815	0.00	0.00
ATOM	24614	CB VAL	1641	73.965	76.442	103.418	0.00	0.00
ATOM	24615	HB VAL	1641	74.474	77.007	102.637	0.00	0.00

ATOM	24616	CG1	VAL	1641	75.104	76.085	104.493	0.00	0.00
ATOM	24617	1HG1	VAL	1641	74.659	75.422	105.235	0.00	0.00
ATOM	24618	2HG1	VAL	1641	75.961	75.673	103.961	0.00	0.00
ATOM	24619	3HG1	VAL	1641	75.424	77.067	104.843	0.00	0.00
ATOM	24620	CG2	VAL	1641	73.465	75.122	102.825	0.00	0.00
ATOM	24621	1HG2	VAL	1641	72.887	74.615	103.597	0.00	0.00
ATOM	24622	2HG2	VAL	1641	73.018	75.310	101.849	0.00	0.00
ATOM	24623	3HG2	VAL	1641	74.349	74.505	102.660	0.00	0.00
ATOM	24624	C	VAL	1641	73.243	78.796	104.136	0.00	0.00
ATOM	24625	O	VAL	1641	74.153	79.259	103.480	0.00	0.00
ATOM	24626	N	HIE	1642	72.702	79.407	105.225	0.00	0.00
ATOM	24627	H	HIE	1642	71.916	78.890	105.591	0.00	0.00
ATOM	24628	CA	HIE	1642	73.106	80.661	105.875	0.00	0.00
ATOM	24629	HA	HIE	1642	73.098	81.499	105.179	0.00	0.00
ATOM	24630	CB	HIE	1642	72.056	81.066	106.893	0.00	0.00
ATOM	24631	HB2	HIE	1642	71.896	80.183	107.512	0.00	0.00
ATOM	24632	HB3	HIE	1642	72.396	81.885	107.526	0.00	0.00
ATOM	24633	CG	HIE	1642	70.710	81.407	106.371	0.00	0.00
ATOM	24634	ND1	HIE	1642	70.259	82.722	106.206	0.00	0.00
ATOM	24635	CE1	HIE	1642	69.042	82.605	105.737	0.00	0.00
ATOM	24636	HE1	HIE	1642	68.398	83.439	105.500	0.00	0.00
ATOM	24637	NE2	HIE	1642	68.709	81.320	105.478	0.00	0.00
ATOM	24638	HE2	HIE	1642	67.820	80.954	105.169	0.00	0.00
ATOM	24639	CD2	HIE	1642	69.820	80.581	105.812	0.00	0.00
ATOM	24640	HD2	HIE	1642	69.941	79.508	105.805	0.00	0.00
ATOM	24641	C	HIE	1642	74.453	80.678	106.527	0.00	0.00

ATOM	24642	O	HIE	1642	74.810	79.789	107.296	0.00	0.00
ATOM	24643	N	ASN	1643	75.265	81.687	106.177	0.00	0.00
ATOM	24644	H	ASN	1643	74.884	82.442	105.625	0.00	0.00
ATOM	24645	CA	ASN	1643	76.702	81.889	106.395	0.00	0.00
ATOM	24646	HA	ASN	1643	77.017	82.512	105.558	0.00	0.00
ATOM	24647	CB	ASN	1643	76.978	82.711	107.682	0.00	0.00
ATOM	24648	HB2	ASN	1643	76.790	82.080	108.550	0.00	0.00
ATOM	24649	HB3	ASN	1643	78.024	83.014	107.644	0.00	0.00
ATOM	24650	CG	ASN	1643	76.093	83.926	107.787	0.00	0.00
ATOM	24651	OD1	ASN	1643	75.237	84.058	108.635	0.00	0.00
ATOM	24652	ND2	ASN	1643	76.300	84.881	106.864	0.00	0.00
ATOM	24653	1HD2	ASN	1643	75.753	85.726	106.955	0.00	0.00
ATOM	24654	2HD2	ASN	1643	77.173	84.775	106.368	0.00	0.00
ATOM	24655	C	ASN	1643	77.421	80.569	106.417	0.00	0.00
ATOM	24656	O	ASN	1643	77.738	80.041	107.541	0.00	0.00
ATOM	24657	N	PRO	1644	77.810	80.053	105.231	0.00	0.00
ATOM	24658	CD	PRO	1644	77.373	80.463	103.872	0.00	0.00
ATOM	24659	HD2	PRO	1644	76.380	80.906	103.806	0.00	0.00
ATOM	24660	HD3	PRO	1644	78.072	81.176	103.435	0.00	0.00
ATOM	24661	CG	PRO	1644	77.410	79.125	103.038	0.00	0.00
ATOM	24662	HG2	PRO	1644	76.553	78.480	103.233	0.00	0.00
ATOM	24663	HG3	PRO	1644	77.495	79.388	101.984	0.00	0.00
ATOM	24664	CB	PRO	1644	78.611	78.508	103.642	0.00	0.00
ATOM	24665	HB2	PRO	1644	78.680	77.465	103.333	0.00	0.00
ATOM	24666	HB3	PRO	1644	79.486	79.018	103.239	0.00	0.00
ATOM	24667	CA	PRO	1644	78.603	78.818	105.138	0.00	0.00



ATOM	24668	HA	PRO	1644	78.113	78.027	105.705	0.00	0.00
ATOM	24669	C	PRO	1644	80.089	78.857	105.566	0.00	0.00
ATOM	24670	O	PRO	1644	80.682	77.845	105.951	0.00	0.00
ATOM	24671	N	ILE	1645	80.686	80.107	105.682	0.00	0.00
ATOM	24672	H	ILE	1645	80.269	80.980	105.390	0.00	0.00
ATOM	24673	CA	ILE	1645	82.068	80.194	106.147	0.00	0.00
ATOM	24674	HA	ILE	1645	82.370	79.269	106.638	0.00	0.00
ATOM	24675	CB	ILE	1645	83.039	80.624	104.993	0.00	0.00
ATOM	24676	HB	ILE	1645	82.791	81.606	104.588	0.00	0.00
ATOM	24677	CG2	ILE	1645	84.445	80.506	105.579	0.00	0.00
ATOM	24678	1HG2	ILE	1645	85.229	80.668	104.840	0.00	0.00
ATOM	24679	2HG2	ILE	1645	84.505	81.312	106.311	0.00	0.00
ATOM	24680	3HG2	ILE	1645	84.645	79.625	106.188	0.00	0.00
ATOM	24681	CG1	ILE	1645	82.971	79.595	103.796	0.00	0.00
ATOM	24682	2HG1	ILE	1645	83.349	78.600	104.032	0.00	0.00
ATOM	24683	3HG1	ILE	1645	81.916	79.510	103.534	0.00	0.00
ATOM	24684	CD1	ILE	1645	83.743	80.122	102.553	0.00	0.00
ATOM	24685	1HD1	ILE	1645	84.796	80.385	102.655	0.00	0.00
ATOM	24686	2HD1	ILE	1645	83.629	79.407	101.738	0.00	0.00
ATOM	24687	3HD1	ILE	1645	83.386	81.081	102.180	0.00	0.00
ATOM	24688	C	ILE	1645	82.091	81.284	107.184	0.00	0.00
ATOM	24689	O	ILE	1645	82.087	82.481	106.815	0.00	0.00
ATOM	24690	N	ILC	1646	82.064	80.844	108.433	0.00	0.00
ATOM	24691	H	ILC	1646	81.976	79.852	108.603	0.00	0.00
ATOM	24692	CA	ILC	1646	81.907	81.672	109.600	0.00	0.00
ATOM	24693	HA	ILC	1646	81.586	82.666	109.288	0.00	0.00

ATOM 24694	CB	ILC	1646	80.868	80.971	110.585	0.00	0.00
ATOM 24695	HB	ILC	1646	81.320	81.022	111.575	0.00	0.00
ATOM 24696	CG2	ILC	1646	79.649	81.852	110.507	0.00	0.00
ATOM 24697	1HG2	ILC	1646	79.804	82.880	110.836	0.00	0.00
ATOM 24698	2HG2	ILC	1646	79.308	81.825	109.472	0.00	0.00
ATOM 24699	3HG2	ILC	1646	78.880	81.442	111.161	0.00	0.00
ATOM 24700	CG1	ILC	1646	80.615	79.490	110.322	0.00	0.00
ATOM 24701	2HG1	ILC	1646	80.004	79.379	109.427	0.00	0.00
ATOM 24702	3HG1	ILC	1646	81.575	78.986	110.208	0.00	0.00
ATOM 24703	CD1	ILC	1646	79.802	78.947	111.500	0.00	0.00
ATOM 24704	1HD1	ILC	1646	80.310	79.202	112.431	0.00	0.00
ATOM 24705	2HD1	ILC	1646	78.820	79.408	111.602	0.00	0.00
ATOM 24706	3HD1	ILC	1646	79.676	77.882	111.305	0.00	0.00
ATOM 24707	C	ILC	1646	83.246	81.807	110.255	0.00	0.00
ATOM 24708	O	ILC	1646	83.877	80.837	110.815	0.00	0.00
ATOM 24709	OXT	ILC	1646	83.724	82.990	110.072	0.00	0.00
ATOM 24710	N	MEN	1647	86.777	96.174	105.213	0.00	0.00
ATOM 24711	H1	MEN	1647	85.781	96.046	105.103	0.00	0.00
ATOM 24712	H2	MEN	1647	86.820	96.962	105.844	0.00	0.00
ATOM 24713	H3	MEN	1647	87.184	95.359	105.648	0.00	0.00
ATOM 24714	CA	MEN	1647	87.469	96.561	103.888	0.00	0.00
ATOM 24715	HA	MEN	1647	86.813	97.392	103.628	0.00	0.00
ATOM 24716	CB	MEN	1647	88.875	97.189	104.113	0.00	0.00
ATOM 24717	HB2	MEN	1647	88.728	98.082	104.720	0.00	0.00
ATOM 24718	HB3	MEN	1647	89.500	96.523	104.708	0.00	0.00
ATOM 24719	CG	MEN	1647	89.698	97.715	102.915	0.00	0.00

ATOM 24720	HG2 MEN 1647	90.477	98.368	103.310	0.00	0.00
ATOM 24721	HG3 MEN 1647	90.157	96.870	102.402	0.00	0.00
ATOM 24722	SD MEN 1647	88.752	98.637	101.756	0.00	0.00
ATOM 24723	CE MEN 1647	90.084	99.200	100.632	0.00	0.00
ATOM 24724	HE1 MEN 1647	90.551	98.307	100.217	0.00	0.00
ATOM 24725	HE2 MEN 1647	89.772	99.678	99.704	0.00	0.00
ATOM 24726	HE3 MEN 1647	90.775	99.766	101.258	0.00	0.00
ATOM 24727	C MEN 1647	87.282	95.500	102.774	0.00	0.00
ATOM 24728	O MEN 1647	88.241	95.151	102.209	0.00	0.00
ATOM 24729	N ILE 1648	86.051	95.224	102.484	0.00	0.00
ATOM 24730	H ILE 1648	85.296	95.688	102.969	0.00	0.00
ATOM 24731	CA ILE 1648	85.828	94.059	101.574	0.00	0.00
ATOM 24732	HA ILE 1648	86.614	93.306	101.641	0.00	0.00
ATOM 24733	CB ILE 1648	84.612	93.153	102.102	0.00	0.00
ATOM 24734	HB ILE 1648	84.495	92.360	101.363	0.00	0.00
ATOM 24735	CG2 ILE 1648	84.819	92.549	103.539	0.00	0.00
ATOM 24736	1HG2 ILE 1648	84.840	93.308	104.321	0.00	0.00
ATOM 24737	2HG2 ILE 1648	84.108	91.747	103.738	0.00	0.00
ATOM 24738	3HG2 ILE 1648	85.847	92.197	103.457	0.00	0.00
ATOM 24739	CG1 ILE 1648	83.246	93.818	102.048	0.00	0.00
ATOM 24740	2HG1 ILE 1648	83.191	94.651	102.749	0.00	0.00
ATOM 24741	3HG1 ILE 1648	83.122	94.237	101.049	0.00	0.00
ATOM 24742	CD1 ILE 1648	82.078	92.880	102.360	0.00	0.00
ATOM 24743	1HD1 ILE 1648	82.072	92.778	103.446	0.00	0.00
ATOM 24744	2HD1 ILE 1648	81.148	93.373	102.079	0.00	0.00
ATOM 24745	3HD1 ILE 1648	82.120	91.913	101.858	0.00	0.00

ATOM	24746	C	ILE	1648	85.660	94.392	100.052	0.00	0.00
ATOM	24747	O	ILE	1648	85.430	95.537	99.722	0.00	0.00
ATOM	24748	N	PRO	1649	85.884	93.365	99.179	0.00	0.00
ATOM	24749	CD	PRO	1649	86.478	92.012	99.388	0.00	0.00
ATOM	24750	HD2	PRO	1649	87.372	92.099	100.005	0.00	0.00
ATOM	24751	HD3	PRO	1649	85.801	91.309	99.874	0.00	0.00
ATOM	24752	CG	PRO	1649	86.758	91.401	98.019	0.00	0.00
ATOM	24753	HG2	PRO	1649	87.740	91.587	97.585	0.00	0.00
ATOM	24754	HG3	PRO	1649	86.629	90.319	98.048	0.00	0.00
ATOM	24755	CB	PRO	1649	85.739	92.124	97.106	0.00	0.00
ATOM	24756	HB2	PRO	1649	86.118	92.208	96.087	0.00	0.00
ATOM	24757	HB3	PRO	1649	84.776	91.617	97.035	0.00	0.00
ATOM	24758	CA	PRO	1649	85.598	93.544	97.777	0.00	0.00
ATOM	24759	HA	PRO	1649	86.359	94.185	97.332	0.00	0.00
ATOM	24760	C	PRO	1649	84.168	94.134	97.556	0.00	0.00
ATOM	24761	O	PRO	1649	83.195	93.621	98.010	0.00	0.00
ATOM	24762	N	GLY	1650	84.042	95.313	96.900	0.00	0.00
ATOM	24763	H	GLY	1650	84.899	95.647	96.481	0.00	0.00
ATOM	24764	CA	GLY	1650	82.725	95.925	96.558	0.00	0.00
ATOM	24765	HA2	GLY	1650	82.825	96.613	95.719	0.00	0.00
ATOM	24766	HA3	GLY	1650	82.006	95.170	96.241	0.00	0.00
ATOM	24767	C	GLY	1650	82.129	96.675	97.741	0.00	0.00
ATOM	24768	O	GLY	1650	81.028	97.158	97.614	0.00	0.00
ATOM	24769	N	GLU	1651	82.784	96.836	98.890	0.00	0.00
ATOM	24770	H	GLU	1651	83.735	96.501	98.933	0.00	0.00
ATOM	24771	CA	GLU	1651	82.339	97.452	100.168	0.00	0.00

ATOM	24772	HA	GLU	1651	81.655	96.708	100.576	0.00	0.00
ATOM	24773	CB	GLU	1651	83.518	97.524	101.180	0.00	0.00
ATOM	24774	HB2	GLU	1651	83.633	96.529	101.612	0.00	0.00
ATOM	24775	HB3	GLU	1651	84.481	97.817	100.761	0.00	0.00
ATOM	24776	CG	GLU	1651	83.307	98.485	102.382	0.00	0.00
ATOM	24777	HG2	GLU	1651	83.132	99.508	102.051	0.00	0.00
ATOM	24778	HG3	GLU	1651	82.358	98.122	102.778	0.00	0.00
ATOM	24779	CD	GLU	1651	84.353	98.311	103.458	0.00	0.00
ATOM	24780	OE1	GLU	1651	84.547	97.223	103.848	0.00	0.00
ATOM	24781	OE2	GLU	1651	84.773	99.352	104.030	0.00	0.00
ATOM	24782	C	GLU	1651	81.682	98.910	99.931	0.00	0.00
ATOM	24783	O	GLU	1651	82.133	99.749	99.176	0.00	0.00
ATOM	24784	N	TYR	1652	80.625	99.155	100.696	0.00	0.00
ATOM	24785	H	TYR	1652	80.142	98.472	101.263	0.00	0.00
ATOM	24786	CA	TYR	1652	79.992	100.508	100.827	0.00	0.00
ATOM	24787	HA	TYR	1652	79.935	100.916	99.818	0.00	0.00
ATOM	24788	CB	TYR	1652	78.525	100.395	101.234	0.00	0.00
ATOM	24789	HB2	TYR	1652	78.449	99.587	101.962	0.00	0.00
ATOM	24790	HB3	TYR	1652	78.264	101.346	101.699	0.00	0.00
ATOM	24791	CG	TYR	1652	77.631	100.139	100.036	0.00	0.00
ATOM	24792	CD1	TYR	1652	77.504	101.046	99.040	0.00	0.00
ATOM	24793	HD1	TYR	1652	78.118	101.925	99.172	0.00	0.00
ATOM	24794	CE1	TYR	1652	76.664	100.843	97.969	0.00	0.00
ATOM	24795	HE1	TYR	1652	76.509	101.558	97.175	0.00	0.00
ATOM	24796	CZ	TYR	1652	75.925	99.678	97.901	0.00	0.00
ATOM	24797	OH	TYR	1652	75.167	99.384	96.823	0.00	0.00

ATOM	24798	HH	TYR	1652	74.756	98.519	96.886	0.00	0.00
ATOM	24799	CE2	TYR	1652	75.936	98.756	98.925	0.00	0.00
ATOM	24800	HE2	TYR	1652	75.471	97.781	98.898	0.00	0.00
ATOM	24801	CD2	TYR	1652	76.771	98.980	99.999	0.00	0.00
ATOM	24802	HD2	TYR	1652	76.780	98.305	100.842	0.00	0.00
ATOM	24803	C	TYR	1652	80.751	101.521	101.654	0.00	0.00
ATOM	24804	O	TYR	1652	81.058	101.243	102.767	0.00	0.00
ATOM	24805	N	HIE	1653	80.952	102.803	101.174	0.00	0.00
ATOM	24806	H	HIE	1653	80.563	103.086	100.286	0.00	0.00
ATOM	24807	CA	HIE	1653	81.353	103.920	102.050	0.00	0.00
ATOM	24808	HA	HIE	1653	81.305	103.477	103.045	0.00	0.00
ATOM	24809	CB	HIE	1653	82.787	104.349	101.799	0.00	0.00
ATOM	24810	HB2	HIE	1653	83.489	103.528	101.947	0.00	0.00
ATOM	24811	HB3	HIE	1653	82.959	104.584	100.749	0.00	0.00
ATOM	24812	CG	HIE	1653	83.362	105.424	102.677	0.00	0.00
ATOM	24813	ND1	HIE	1653	83.459	105.256	104.049	0.00	0.00
ATOM	24814	CE1	HIE	1653	84.045	106.341	104.520	0.00	0.00
ATOM	24815	HE1	HIE	1653	84.393	106.348	105.542	0.00	0.00
ATOM	24816	NE2	HIE	1653	84.383	107.206	103.503	0.00	0.00
ATOM	24817	HE2	HIE	1653	85.045	107.968	103.527	0.00	0.00
ATOM	24818	CD2	HIE	1653	83.896	106.647	102.351	0.00	0.00
ATOM	24819	HD2	HIE	1653	84.017	107.125	101.390	0.00	0.00
ATOM	24820	C	HIE	1653	80.340	105.093	102.163	0.00	0.00
ATOM	24821	O	HIE	1653	80.217	105.913	101.256	0.00	0.00
ATOM	24822	N	VAL	1654	79.541	105.127	103.230	0.00	0.00
ATOM	24823	H	VAL	1654	79.812	104.488	103.963	0.00	0.00

ATOM	24824	CA	VAL	1654	78.425	106.040	103.492	0.00	0.00
ATOM	24825	HA	VAL	1654	78.430	106.853	102.766	0.00	0.00
ATOM	24826	CB	VAL	1654	77.047	105.250	103.246	0.00	0.00
ATOM	24827	HB	VAL	1654	77.125	104.759	102.276	0.00	0.00
ATOM	24828	CG1	VAL	1654	76.755	104.134	104.321	0.00	0.00
ATOM	24829	1HG1	VAL	1654	76.115	103.354	103.907	0.00	0.00
ATOM	24830	2HG1	VAL	1654	77.674	103.618	104.599	0.00	0.00
ATOM	24831	3HG1	VAL	1654	76.211	104.565	105.162	0.00	0.00
ATOM	24832	CG2	VAL	1654	75.956	106.301	103.235	0.00	0.00
ATOM	24833	1HG2	VAL	1654	75.061	105.701	103.070	0.00	0.00
ATOM	24834	2HG2	VAL	1654	75.768	106.793	104.190	0.00	0.00
ATOM	24835	3HG2	VAL	1654	76.064	106.983	102.391	0.00	0.00
ATOM	24836	C	VAL	1654	78.593	106.785	104.844	0.00	0.00
ATOM	24837	O	VAL	1654	79.111	106.263	105.845	0.00	0.00
ATOM	24838	N	LYS	1655	78.185	108.080	104.851	0.00	0.00
ATOM	24839	H	LYS	1655	77.815	108.491	104.006	0.00	0.00
ATOM	24840	CA	LYS	1655	78.122	108.952	106.041	0.00	0.00
ATOM	24841	HA	LYS	1655	78.944	108.624	106.678	0.00	0.00
ATOM	24842	CB	LYS	1655	78.412	110.402	105.676	0.00	0.00
ATOM	24843	HB2	LYS	1655	77.537	110.723	105.110	0.00	0.00
ATOM	24844	HB3	LYS	1655	78.475	110.930	106.628	0.00	0.00
ATOM	24845	CG	LYS	1655	79.794	110.644	104.990	0.00	0.00
ATOM	24846	HG2	LYS	1655	80.576	110.663	105.749	0.00	0.00
ATOM	24847	HG3	LYS	1655	79.964	109.956	104.162	0.00	0.00
ATOM	24848	CD	LYS	1655	80.072	112.008	104.438	0.00	0.00
ATOM	24849	HD2	LYS	1655	80.378	112.685	105.235	0.00	0.00

ATOM	24850	HD3	LYS	1655	80.888	111.802	103.745	0.00	0.00
ATOM	24851	CE	LYS	1655	79.013	112.695	103.585	0.00	0.00
ATOM	24852	HE2	LYS	1655	78.184	112.807	104.283	0.00	0.00
ATOM	24853	HE3	LYS	1655	79.357	113.701	103.344	0.00	0.00
ATOM	24854	NZ	LYS	1655	78.524	112.060	102.343	0.00	0.00
ATOM	24855	HZ1	LYS	1655	77.773	112.548	101.876	0.00	0.00
ATOM	24856	HZ2	LYS	1655	79.256	112.056	101.647	0.00	0.00
ATOM	24857	HZ3	LYS	1655	78.222	111.109	102.501	0.00	0.00
ATOM	24858	C	LYS	1655	76.878	108.670	106.832	0.00	0.00
ATOM	24859	O	LYS	1655	75.791	108.505	106.204	0.00	0.00
ATOM	24860	N	PRO	1656	76.874	108.735	108.186	0.00	0.00
ATOM	24861	CD	PRO	1656	77.987	108.724	109.093	0.00	0.00
ATOM	24862	HD2	PRO	1656	78.595	107.861	108.823	0.00	0.00
ATOM	24863	HD3	PRO	1656	78.561	109.642	108.962	0.00	0.00
ATOM	24864	CG	PRO	1656	77.540	108.511	110.461	0.00	0.00
ATOM	24865	HG2	PRO	1656	78.345	108.102	111.071	0.00	0.00
ATOM	24866	HG3	PRO	1656	77.282	109.508	110.818	0.00	0.00
ATOM	24867	CB	PRO	1656	76.123	107.821	110.332	0.00	0.00
ATOM	24868	HB2	PRO	1656	76.234	106.740	110.423	0.00	0.00
ATOM	24869	HB3	PRO	1656	75.450	108.085	111.148	0.00	0.00
ATOM	24870	CA	PRO	1656	75.653	108.409	109.034	0.00	0.00
ATOM	24871	HA	PRO	1656	75.120	107.691	108.410	0.00	0.00
ATOM	24872	C	PRO	1656	74.806	109.678	109.205	0.00	0.00
ATOM	24873	O	PRO	1656	75.118	110.701	108.642	0.00	0.00
ATOM	24874	N	GLY	1657	73.694	109.676	109.913	0.00	0.00
ATOM	24875	H	GLY	1657	73.457	108.796	110.349	0.00	0.00



ATOM	24876	CA	GLY	1657	72.830	110.842	110.213	0.00	0.00
ATOM	24877	HA2	GLY	1657	73.136	111.260	111.173	0.00	0.00
ATOM	24878	HA3	GLY	1657	72.886	111.642	109.475	0.00	0.00
ATOM	24879	C	GLY	1657	71.297	110.492	110.137	0.00	0.00
ATOM	24880	O	GLY	1657	70.965	109.404	110.612	0.00	0.00
ATOM	24881	N	GLN	1658	70.431	111.367	109.538	0.00	0.00
ATOM	24882	H	GLN	1658	70.777	112.273	109.256	0.00	0.00
ATOM	24883	CA	GLN	1658	68.941	111.099	109.395	0.00	0.00
ATOM	24884	HA	GLN	1658	68.656	110.055	109.261	0.00	0.00
ATOM	24885	CB	GLN	1658	68.290	111.520	110.728	0.00	0.00
ATOM	24886	HB2	GLN	1658	67.207	111.487	110.613	0.00	0.00
ATOM	24887	HB3	GLN	1658	68.482	110.713	111.436	0.00	0.00
ATOM	24888	CG	GLN	1658	68.682	112.857	111.329	0.00	0.00
ATOM	24889	HG2	GLN	1658	69.743	112.847	111.576	0.00	0.00
ATOM	24890	HG3	GLN	1658	68.597	113.694	110.636	0.00	0.00
ATOM	24891	CD	GLN	1658	67.981	113.318	112.611	0.00	0.00
ATOM	24892	OE1	GLN	1658	67.250	112.550	113.253	0.00	0.00
ATOM	24893	NE2	GLN	1658	68.122	114.506	113.099	0.00	0.00
ATOM	24894	1HE2	GLN	1658	67.864	114.640	114.067	0.00	0.00
ATOM	24895	2HE2	GLN	1658	68.604	115.265	112.640	0.00	0.00
ATOM	24896	C	GLN	1658	68.288	111.925	108.287	0.00	0.00
ATOM	24897	O	GLN	1658	68.801	113.023	108.027	0.00	0.00
ATOM	24898	N	ILE	1659	67.149	111.500	107.725	0.00	0.00
ATOM	24899	H	ILE	1659	66.710	110.681	108.121	0.00	0.00
ATOM	24900	CA	ILE	1659	66.381	112.159	106.748	0.00	0.00
ATOM	24901	HA	ILE	1659	66.698	113.201	106.796	0.00	0.00

ATOM	24902	CB	ILE	1659	66.645	111.547	105.319	0.00	0.00
ATOM	24903	HB	ILE	1659	66.389	110.494	105.436	0.00	0.00
ATOM	24904	CG2	ILE	1659	65.694	112.178	104.300	0.00	0.00
ATOM	24905	1HG2	ILE	1659	65.692	113.232	104.580	0.00	0.00
ATOM	24906	2HG2	ILE	1659	66.154	112.090	103.316	0.00	0.00
ATOM	24907	3HG2	ILE	1659	64.704	111.759	104.123	0.00	0.00
ATOM	24908	CG1	ILE	1659	68.174	111.638	104.951	0.00	0.00
ATOM	24909	2HG1	ILE	1659	68.375	112.707	105.011	0.00	0.00
ATOM	24910	3HG1	ILE	1659	68.789	111.085	105.662	0.00	0.00
ATOM	24911	CD1	ILE	1659	68.401	111.168	103.489	0.00	0.00
ATOM	24912	1HD1	ILE	1659	68.102	111.906	102.745	0.00	0.00
ATOM	24913	2HD1	ILE	1659	69.483	111.089	103.375	0.00	0.00
ATOM	24914	3HD1	ILE	1659	67.895	110.203	103.453	0.00	0.00
ATOM	24915	C	ILE	1659	64.939	112.051	107.260	0.00	0.00
ATOM	24916	O	ILE	1659	64.476	111.008	107.678	0.00	0.00
ATOM	24917	N	ALA	1660	64.217	113.149	107.009	0.00	0.00
ATOM	24918	H	ALA	1660	64.688	113.927	106.568	0.00	0.00
ATOM	24919	CA	ALA	1660	62.727	113.136	107.007	0.00	0.00
ATOM	24920	HA	ALA	1660	62.444	112.268	107.601	0.00	0.00
ATOM	24921	CB	ALA	1660	62.226	114.424	107.624	0.00	0.00
ATOM	24922	HB1	ALA	1660	61.145	114.409	107.483	0.00	0.00
ATOM	24923	HB2	ALA	1660	62.507	114.550	108.669	0.00	0.00
ATOM	24924	HB3	ALA	1660	62.615	115.301	107.106	0.00	0.00
ATOM	24925	C	ALA	1660	62.229	112.971	105.601	0.00	0.00
ATOM	24926	O	ALA	1660	62.876	113.418	104.634	0.00	0.00
ATOM	24927	N	LEU	1661	61.078	112.321	105.478	0.00	0.00

ATOM	24928	H	LEU	1661	60.580	112.106	106.330	0.00	0.00
ATOM	24929	CA	LEU	1661	60.434	112.006	104.247	0.00	0.00
ATOM	24930	HA	LEU	1661	61.143	112.243	103.453	0.00	0.00
ATOM	24931	CB	LEU	1661	60.080	110.538	104.259	0.00	0.00
ATOM	24932	HB2	LEU	1661	59.305	110.448	105.019	0.00	0.00
ATOM	24933	HB3	LEU	1661	59.633	110.191	103.327	0.00	0.00
ATOM	24934	CG	LEU	1661	61.173	109.512	104.577	0.00	0.00
ATOM	24935	HG	LEU	1661	61.669	109.666	105.535	0.00	0.00
ATOM	24936	CD1	LEU	1661	60.426	108.141	104.613	0.00	0.00
ATOM	24937	1HD1	LEU	1661	59.928	107.979	103.657	0.00	0.00
ATOM	24938	2HD1	LEU	1661	61.178	107.409	104.907	0.00	0.00
ATOM	24939	3HD1	LEU	1661	59.582	108.153	105.302	0.00	0.00
ATOM	24940	CD2	LEU	1661	62.223	109.438	103.451	0.00	0.00
ATOM	24941	1HD2	LEU	1661	62.950	110.247	103.532	0.00	0.00
ATOM	24942	2HD2	LEU	1661	62.752	108.493	103.565	0.00	0.00
ATOM	24943	3HD2	LEU	1661	61.753	109.429	102.467	0.00	0.00
ATOM	24944	C	LEU	1661	59.120	112.784	103.886	0.00	0.00
ATOM	24945	O	LEU	1661	58.357	113.087	104.771	0.00	0.00
ATOM	24946	N	ASN	1662	58.896	113.141	102.611	0.00	0.00
ATOM	24947	H	ASN	1662	59.575	112.835	101.929	0.00	0.00
ATOM	24948	CA	ASN	1662	57.733	113.854	102.082	0.00	0.00
ATOM	24949	HA	ASN	1662	58.105	114.429	101.234	0.00	0.00
ATOM	24950	CB	ASN	1662	56.608	112.842	101.562	0.00	0.00
ATOM	24951	HB2	ASN	1662	55.723	113.411	101.279	0.00	0.00
ATOM	24952	HB3	ASN	1662	56.939	112.267	100.697	0.00	0.00
ATOM	24953	CG	ASN	1662	56.266	111.827	102.645	0.00	0.00

ATOM	24954	OD1	ASN	1662	56.726	110.696	102.589	0.00	0.00
ATOM	24955	ND2	ASN	1662	55.394	112.249	103.553	0.00	0.00
ATOM	24956	1HD2	ASN	1662	55.127	111.669	104.336	0.00	0.00
ATOM	24957	2HD2	ASN	1662	55.414	113.236	103.765	0.00	0.00
ATOM	24958	C	ASN	1662	57.192	114.995	102.941	0.00	0.00
ATOM	24959	O	ASN	1662	56.020	115.020	103.161	0.00	0.00
ATOM	24960	N	THR	1663	57.947	115.944	103.477	0.00	0.00
ATOM	24961	H	THR	1663	58.939	115.779	103.389	0.00	0.00
ATOM	24962	CA	THR	1663	57.570	117.122	104.314	0.00	0.00
ATOM	24963	HA	THR	1663	56.857	116.714	105.030	0.00	0.00
ATOM	24964	CB	THR	1663	58.815	117.598	105.151	0.00	0.00
ATOM	24965	HB	THR	1663	58.495	118.456	105.743	0.00	0.00
ATOM	24966	CG2	THR	1663	59.267	116.541	106.186	0.00	0.00
ATOM	24967	1HG2	THR	1663	59.567	115.577	105.775	0.00	0.00
ATOM	24968	2HG2	THR	1663	60.004	117.073	106.787	0.00	0.00
ATOM	24969	3HG2	THR	1663	58.403	116.380	106.831	0.00	0.00
ATOM	24970	OG1	THR	1663	59.842	118.050	104.342	0.00	0.00
ATOM	24971	HG1	THR	1663	60.301	117.303	103.952	0.00	0.00
ATOM	24972	C	THR	1663	56.899	118.258	103.541	0.00	0.00
ATOM	24973	O	THR	1663	56.932	118.263	102.336	0.00	0.00
ATOM	24974	N	GLY	1664	56.223	119.170	104.146	0.00	0.00
ATOM	24975	H	GLY	1664	56.283	119.047	105.147	0.00	0.00
ATOM	24976	CA	GLY	1664	55.511	120.396	103.548	0.00	0.00
ATOM	24977	HA2	GLY	1664	55.222	121.052	104.369	0.00	0.00
ATOM	24978	HA3	GLY	1664	56.280	120.856	102.927	0.00	0.00
ATOM	24979	C	GLY	1664	54.274	119.977	102.767	0.00	0.00

ATOM	24980	O	GLY	1664	53.810	120.702	101.888	0.00	0.00
ATOM	24981	N	ARG	1665	53.708	118.837	103.088	0.00	0.00
ATOM	24982	H	ARG	1665	54.143	118.264	103.797	0.00	0.00
ATOM	24983	CA	ARG	1665	52.548	118.149	102.410	0.00	0.00
ATOM	24984	HA	ARG	1665	52.107	118.753	101.617	0.00	0.00
ATOM	24985	CB	ARG	1665	53.051	116.825	101.842	0.00	0.00
ATOM	24986	HB2	ARG	1665	53.563	116.258	102.619	0.00	0.00
ATOM	24987	HB3	ARG	1665	52.301	116.087	101.558	0.00	0.00
ATOM	24988	CG	ARG	1665	54.044	116.901	100.611	0.00	0.00
ATOM	24989	HG2	ARG	1665	53.452	117.254	99.767	0.00	0.00
ATOM	24990	HG3	ARG	1665	54.930	117.501	100.819	0.00	0.00
ATOM	24991	CD	ARG	1665	54.581	115.531	100.169	0.00	0.00
ATOM	24992	HD2	ARG	1665	55.345	115.858	99.465	0.00	0.00
ATOM	24993	HD3	ARG	1665	54.989	115.151	101.106	0.00	0.00
ATOM	24994	NE	ARG	1665	53.538	114.679	99.621	0.00	0.00
ATOM	24995	HE	ARG	1665	52.621	115.101	99.661	0.00	0.00
ATOM	24996	CZ	ARG	1665	53.661	113.643	98.835	0.00	0.00
ATOM	24997	NH1	ARG	1665	54.792	113.293	98.377	0.00	0.00
ATOM	24998	1HH1	ARG	1665	54.895	112.403	97.913	0.00	0.00
ATOM	24999	2HH1	ARG	1665	55.534	113.973	98.455	0.00	0.00
ATOM	25000	NH2	ARG	1665	52.695	112.921	98.427	0.00	0.00
ATOM	25001	1HH2	ARG	1665	52.953	112.147	97.832	0.00	0.00
ATOM	25002	2HH2	ARG	1665	51.728	113.056	98.685	0.00	0.00
ATOM	25003	C	ARG	1665	51.422	117.945	103.420	0.00	0.00
ATOM	25004	O	ARG	1665	51.713	117.557	104.534	0.00	0.00
ATOM	25005	N	ALA	1666	50.221	118.091	102.885	0.00	0.00

ATOM	25006	H	ALA	1666	50.120	118.437	101.941	0.00	0.00
ATOM	25007	CA	ALA	1666	48.981	117.910	103.626	0.00	0.00
ATOM	25008	HA	ALA	1666	48.906	118.612	104.457	0.00	0.00
ATOM	25009	CB	ALA	1666	47.653	118.267	102.739	0.00	0.00
ATOM	25010	HB1	ALA	1666	47.638	117.616	101.864	0.00	0.00
ATOM	25011	HB2	ALA	1666	46.795	117.849	103.266	0.00	0.00
ATOM	25012	HB3	ALA	1666	47.600	119.316	102.448	0.00	0.00
ATOM	25013	C	ALA	1666	49.024	116.484	104.304	0.00	0.00
ATOM	25014	O	ALA	1666	49.085	115.434	103.634	0.00	0.00
ATOM	25015	N	THR	1667	48.847	116.514	105.665	0.00	0.00
ATOM	25016	H	THR	1667	48.750	117.442	106.053	0.00	0.00
ATOM	25017	CA	THR	1667	48.968	115.362	106.573	0.00	0.00
ATOM	25018	HA	THR	1667	48.870	114.488	105.930	0.00	0.00
ATOM	25019	CB	THR	1667	50.437	115.381	107.196	0.00	0.00
ATOM	25020	HB	THR	1667	50.463	116.248	107.856	0.00	0.00
ATOM	25021	CG2	THR	1667	50.986	114.180	107.933	0.00	0.00
ATOM	25022	1HG2	THR	1667	51.225	113.413	107.196	0.00	0.00
ATOM	25023	2HG2	THR	1667	51.880	114.433	108.503	0.00	0.00
ATOM	25024	3HG2	THR	1667	50.172	113.802	108.552	0.00	0.00
ATOM	25025	OG1	THR	1667	51.376	115.552	106.145	0.00	0.00
ATOM	25026	HG1	THR	1667	51.442	116.504	106.039	0.00	0.00
ATOM	25027	C	THR	1667	47.812	115.426	107.563	0.00	0.00
ATOM	25028	O	THR	1667	47.358	116.518	107.978	0.00	0.00
ATOM	25029	N	CYS	1668	47.359	114.215	107.908	0.00	0.00
ATOM	25030	H	CYS	1668	47.693	113.343	107.522	0.00	0.00
ATOM	25031	CA	CYS	1668	46.316	114.059	108.964	0.00	0.00

ATOM	25032	HA	CYS	1668	46.366	114.852	109.710	0.00	0.00
ATOM	25033	CB	CYS	1668	44.941	114.067	108.323	0.00	0.00
ATOM	25034	HB2	CYS	1668	44.142	114.065	109.064	0.00	0.00
ATOM	25035	HB3	CYS	1668	44.798	114.935	107.680	0.00	0.00
ATOM	25036	SG	CYS	1668	44.595	112.614	107.339	0.00	0.00
ATOM	25037	HG	CYS	1668	45.684	112.635	106.565	0.00	0.00
ATOM	25038	C	CYS	1668	46.544	112.833	109.871	0.00	0.00
ATOM	25039	O	CYS	1668	47.412	111.984	109.546	0.00	0.00
ATOM	25040	N	ARG	1669	45.789	112.731	110.975	0.00	0.00
ATOM	25041	H	ARG	1669	45.098	113.440	111.171	0.00	0.00
ATOM	25042	CA	ARG	1669	45.705	111.566	111.822	0.00	0.00
ATOM	25043	HA	ARG	1669	46.222	110.767	111.291	0.00	0.00
ATOM	25044	CB	ARG	1669	46.293	111.934	113.200	0.00	0.00
ATOM	25045	HB2	ARG	1669	46.234	113.016	113.319	0.00	0.00
ATOM	25046	HB3	ARG	1669	45.631	111.541	113.972	0.00	0.00
ATOM	25047	CG	ARG	1669	47.782	111.433	113.322	0.00	0.00
ATOM	25048	HG2	ARG	1669	48.327	111.882	112.491	0.00	0.00
ATOM	25049	HG3	ARG	1669	47.919	110.352	113.298	0.00	0.00
ATOM	25050	CD	ARG	1669	48.323	111.824	114.617	0.00	0.00
ATOM	25051	HD2	ARG	1669	48.013	112.800	114.991	0.00	0.00
ATOM	25052	HD3	ARG	1669	47.964	111.081	115.329	0.00	0.00
ATOM	25053	NE	ARG	1669	49.767	111.626	114.514	0.00	0.00
ATOM	25054	HE	ARG	1669	50.283	112.084	113.777	0.00	0.00
ATOM	25055	CZ	ARG	1669	50.519	110.740	115.124	0.00	0.00
ATOM	25056	NH1	ARG	1669	50.110	110.091	116.251	0.00	0.00
ATOM	25057	1HH1	ARG	1669	50.880	109.760	116.815	0.00	0.00

ATOM	25058	2HH1	ARG	1669	49.218	110.305	116.673	0.00	0.00
ATOM	25059	NH2	ARG	1669	51.802	110.617	114.690	0.00	0.00
ATOM	25060	1HH2	ARG	1669	52.236	109.741	114.943	0.00	0.00
ATOM	25061	2HH2	ARG	1669	52.028	110.848	113.733	0.00	0.00
ATOM	25062	C	ARG	1669	44.247	111.012	111.971	0.00	0.00
ATOM	25063	O	ARG	1669	43.341	111.812	111.820	0.00	0.00
ATOM	25064	N	VAL	1670	44.180	109.670	112.226	0.00	0.00
ATOM	25065	H	VAL	1670	45.104	109.264	112.243	0.00	0.00
ATOM	25066	CA	VAL	1670	42.925	108.929	112.398	0.00	0.00
ATOM	25067	HA	VAL	1670	42.149	109.623	112.722	0.00	0.00
ATOM	25068	CB	VAL	1670	42.377	108.425	111.050	0.00	0.00
ATOM	25069	HB	VAL	1670	43.046	107.742	110.527	0.00	0.00
ATOM	25070	CG1	VAL	1670	41.223	107.496	111.315	0.00	0.00
ATOM	25071	1HG1	VAL	1670	41.586	106.570	111.761	0.00	0.00
ATOM	25072	2HG1	VAL	1670	40.490	107.978	111.962	0.00	0.00
ATOM	25073	3HG1	VAL	1670	40.714	107.319	110.367	0.00	0.00
ATOM	25074	CG2	VAL	1670	42.086	109.459	109.956	0.00	0.00
ATOM	25075	1HG2	VAL	1670	41.292	110.152	110.233	0.00	0.00
ATOM	25076	2HG2	VAL	1670	42.984	109.989	109.640	0.00	0.00
ATOM	25077	3HG2	VAL	1670	41.775	108.904	109.070	0.00	0.00
ATOM	25078	C	VAL	1670	43.104	107.783	113.449	0.00	0.00
ATOM	25079	O	VAL	1670	44.147	107.121	113.385	0.00	0.00
ATOM	25080	N	VAL	1671	42.181	107.550	114.452	0.00	0.00
ATOM	25081	H	VAL	1671	41.465	108.250	114.583	0.00	0.00
ATOM	25082	CA	VAL	1671	42.015	106.319	115.265	0.00	0.00
ATOM	25083	HA	VAL	1671	42.988	105.828	115.275	0.00	0.00



ATOM 25084	CB VAL 1671	41.685	106.606	116.756	0.00	0.00
ATOM 25085	HB VAL 1671	41.431	105.651	117.216	0.00	0.00
ATOM 25086	CG1 VAL 1671	42.930	107.118	117.572	0.00	0.00
ATOM 25087	1HG1 VAL 1671	42.759	107.107	118.649	0.00	0.00
ATOM 25088	2HG1 VAL 1671	43.715	106.389	117.369	0.00	0.00
ATOM 25089	3HG1 VAL 1671	43.354	108.055	117.213	0.00	0.00
ATOM 25090	CG2 VAL 1671	40.421	107.370	116.982	0.00	0.00
ATOM 25091	1HG2 VAL 1671	40.313	107.498	118.059	0.00	0.00
ATOM 25092	2HG2 VAL 1671	40.489	108.355	116.520	0.00	0.00
ATOM 25093	3HG2 VAL 1671	39.589	106.837	116.522	0.00	0.00
ATOM 25094	C VAL 1671	41.072	105.272	114.714	0.00	0.00
ATOM 25095	O VAL 1671	40.101	105.559	114.057	0.00	0.00
ATOM 25096	N VAL 1672	41.488	103.985	114.812	0.00	0.00
ATOM 25097	H VAL 1672	42.304	103.776	115.369	0.00	0.00
ATOM 25098	CA VAL 1672	40.833	102.814	114.181	0.00	0.00
ATOM 25099	HA VAL 1672	39.750	102.931	114.128	0.00	0.00
ATOM 25100	CB VAL 1672	41.399	102.759	112.745	0.00	0.00
ATOM 25101	HB VAL 1672	40.759	103.518	112.295	0.00	0.00
ATOM 25102	CG1 VAL 1672	42.869	103.128	112.577	0.00	0.00
ATOM 25103	1HG1 VAL 1672	43.526	102.542	113.221	0.00	0.00
ATOM 25104	2HG1 VAL 1672	43.197	103.059	111.540	0.00	0.00
ATOM 25105	3HG1 VAL 1672	42.895	104.157	112.937	0.00	0.00
ATOM 25106	CG2 VAL 1672	41.142	101.456	112.085	0.00	0.00
ATOM 25107	1HG2 VAL 1672	40.122	101.112	112.258	0.00	0.00
ATOM 25108	2HG2 VAL 1672	41.358	101.584	111.024	0.00	0.00
ATOM 25109	3HG2 VAL 1672	41.762	100.707	112.577	0.00	0.00

ATOM	25110	C	VAL	1672	41.091	101.483	114.925	0.00	0.00
ATOM	25111	O	VAL	1672	42.235	101.215	115.414	0.00	0.00
ATOM	25112	N	GLU	1673	40.048	100.584	115.022	0.00	0.00
ATOM	25113	H	GLU	1673	39.137	100.757	114.620	0.00	0.00
ATOM	25114	CA	GLU	1673	40.115	99.257	115.739	0.00	0.00
ATOM	25115	HA	GLU	1673	41.132	99.129	116.108	0.00	0.00
ATOM	25116	CB	GLU	1673	39.208	99.219	117.020	0.00	0.00
ATOM	25117	HB2	GLU	1673	39.481	98.312	117.560	0.00	0.00
ATOM	25118	HB3	GLU	1673	39.260	100.092	117.672	0.00	0.00
ATOM	25119	CG	GLU	1673	37.730	98.936	116.665	0.00	0.00
ATOM	25120	HG2	GLU	1673	37.363	99.813	116.131	0.00	0.00
ATOM	25121	HG3	GLU	1673	37.568	98.104	115.979	0.00	0.00
ATOM	25122	CD	GLU	1673	36.938	98.622	117.938	0.00	0.00
ATOM	25123	OE1	GLU	1673	36.131	99.487	118.419	0.00	0.00
ATOM	25124	OE2	GLU	1673	37.005	97.531	118.465	0.00	0.00
ATOM	25125	C	GLU	1673	39.789	98.145	114.750	0.00	0.00
ATOM	25126	O	GLU	1673	38.870	98.233	113.893	0.00	0.00
ATOM	25127	N	ASN	1674	40.571	97.067	114.755	0.00	0.00
ATOM	25128	H	ASN	1674	41.240	97.052	115.511	0.00	0.00
ATOM	25129	CA	ASN	1674	40.205	95.811	114.136	0.00	0.00
ATOM	25130	HA	ASN	1674	39.926	95.959	113.093	0.00	0.00
ATOM	25131	CB	ASN	1674	41.452	94.883	113.976	0.00	0.00
ATOM	25132	HB2	ASN	1674	42.194	95.354	113.332	0.00	0.00
ATOM	25133	HB3	ASN	1674	41.910	94.743	114.955	0.00	0.00
ATOM	25134	CG	ASN	1674	41.092	93.585	113.257	0.00	0.00
ATOM	25135	OD1	ASN	1674	39.942	93.259	113.055	0.00	0.00

ATOM	25136	ND2	ASN	1674	42.062	92.847	112.709	0.00	0.00
ATOM	25137	1HD2	ASN	1674	41.811	92.041	112.154	0.00	0.00
ATOM	25138	2HD2	ASN	1674	43.040	93.057	112.848	0.00	0.00
ATOM	25139	C	ASN	1674	39.100	95.072	114.814	0.00	0.00
ATOM	25140	O	ASN	1674	39.351	94.453	115.847	0.00	0.00
ATOM	25141	N	HID	1675	37.903	95.160	114.278	0.00	0.00
ATOM	25142	H	HID	1675	37.882	95.685	113.416	0.00	0.00
ATOM	25143	CA	HID	1675	36.667	94.755	114.923	0.00	0.00
ATOM	25144	HA	HID	1675	36.934	94.623	115.972	0.00	0.00
ATOM	25145	CB	HID	1675	35.609	95.868	114.768	0.00	0.00
ATOM	25146	HB2	HID	1675	36.177	96.799	114.777	0.00	0.00
ATOM	25147	HB3	HID	1675	35.136	95.805	113.788	0.00	0.00
ATOM	25148	CG	HID	1675	34.557	95.737	115.915	0.00	0.00
ATOM	25149	ND1	HID	1675	34.707	96.236	117.177	0.00	0.00
ATOM	25150	HD1	HID	1675	35.426	96.830	117.564	0.00	0.00
ATOM	25151	CE1	HID	1675	33.561	95.994	117.869	0.00	0.00
ATOM	25152	HE1	HID	1675	33.443	96.295	118.899	0.00	0.00
ATOM	25153	NE2	HID	1675	32.622	95.413	117.078	0.00	0.00
ATOM	25154	CD2	HID	1675	33.273	95.163	115.881	0.00	0.00
ATOM	25155	HD2	HID	1675	32.953	94.663	114.978	0.00	0.00
ATOM	25156	C	HID	1675	36.151	93.364	114.404	0.00	0.00
ATOM	25157	O	HID	1675	35.048	93.184	113.919	0.00	0.00
ATOM	25158	N	GLY	1676	37.070	92.395	114.381	0.00	0.00
ATOM	25159	H	GLY	1676	38.001	92.643	114.683	0.00	0.00
ATOM	25160	CA	GLY	1676	36.990	90.923	114.079	0.00	0.00
ATOM	25161	HA2	GLY	1676	36.237	90.502	114.746	0.00	0.00

ATOM	25162	HA3	GLY	1676	36.719	90.737	113.040	0.00	0.00
ATOM	25163	C	GLY	1676	38.261	90.186	114.300	0.00	0.00
ATOM	25164	O	GLY	1676	39.216	90.648	114.966	0.00	0.00
ATOM	25165	N	ASP	1677	38.209	88.941	113.983	0.00	0.00
ATOM	25166	H	ASP	1677	37.452	88.621	113.395	0.00	0.00
ATOM	25167	CA	ASP	1677	39.040	87.855	114.433	0.00	0.00
ATOM	25168	HA	ASP	1677	39.539	88.151	115.356	0.00	0.00
ATOM	25169	CB	ASP	1677	38.111	86.639	114.786	0.00	0.00
ATOM	25170	HB2	ASP	1677	37.303	86.977	115.434	0.00	0.00
ATOM	25171	HB3	ASP	1677	37.818	86.186	113.839	0.00	0.00
ATOM	25172	CG	ASP	1677	38.774	85.607	115.654	0.00	0.00
ATOM	25173	OD1	ASP	1677	39.609	86.030	116.517	0.00	0.00
ATOM	25174	OD2	ASP	1677	38.482	84.418	115.581	0.00	0.00
ATOM	25175	C	ASP	1677	40.152	87.481	113.434	0.00	0.00
ATOM	25176	O	ASP	1677	40.872	86.495	113.630	0.00	0.00
ATOM	25177	N	ARG	1678	40.288	88.238	112.349	0.00	0.00
ATOM	25178	H	ARG	1678	39.729	89.070	112.223	0.00	0.00
ATOM	25179	CA	ARG	1678	41.365	88.064	111.254	0.00	0.00
ATOM	25180	HA	ARG	1678	41.897	87.132	111.445	0.00	0.00
ATOM	25181	CB	ARG	1678	40.677	87.809	109.921	0.00	0.00
ATOM	25182	HB2	ARG	1678	40.055	88.692	109.776	0.00	0.00
ATOM	25183	HB3	ARG	1678	41.488	87.896	109.198	0.00	0.00
ATOM	25184	CG	ARG	1678	39.818	86.527	109.889	0.00	0.00
ATOM	25185	HG2	ARG	1678	40.435	85.644	110.055	0.00	0.00
ATOM	25186	HG3	ARG	1678	39.058	86.566	110.670	0.00	0.00
ATOM	25187	CD	ARG	1678	39.078	86.208	108.565	0.00	0.00

ATOM	25188	HD2	ARG	1678	39.729	86.371	107.706	0.00	0.00
ATOM	25189	HD3	ARG	1678	38.852	85.151	108.425	0.00	0.00
ATOM	25190	NE	ARG	1678	37.930	86.990	108.651	0.00	0.00
ATOM	25191	HE	ARG	1678	37.778	87.572	109.463	0.00	0.00
ATOM	25192	CZ	ARG	1678	36.887	87.006	107.868	0.00	0.00
ATOM	25193	NH1	ARG	1678	36.648	86.194	106.889	0.00	0.00
ATOM	25194	1HH1	ARG	1678	36.038	86.559	106.172	0.00	0.00
ATOM	25195	2HH1	ARG	1678	37.302	85.471	106.625	0.00	0.00
ATOM	25196	NH2	ARG	1678	35.978	87.897	108.088	0.00	0.00
ATOM	25197	1HH2	ARG	1678	35.290	88.048	107.364	0.00	0.00
ATOM	25198	2HH2	ARG	1678	36.125	88.627	108.771	0.00	0.00
ATOM	25199	C	ARG	1678	42.311	89.265	111.197	0.00	0.00
ATOM	25200	O	ARG	1678	41.831	90.419	111.419	0.00	0.00
ATOM	25201	N	PRO	1679	43.621	89.142	110.951	0.00	0.00
ATOM	25202	CD	PRO	1679	44.403	87.936	110.705	0.00	0.00
ATOM	25203	HD2	PRO	1679	44.367	87.405	111.656	0.00	0.00
ATOM	25204	HD3	PRO	1679	43.990	87.286	109.934	0.00	0.00
ATOM	25205	CG	PRO	1679	45.781	88.373	110.162	0.00	0.00
ATOM	25206	HG2	PRO	1679	46.518	87.699	110.598	0.00	0.00
ATOM	25207	HG3	PRO	1679	45.727	88.388	109.074	0.00	0.00
ATOM	25208	CB	PRO	1679	45.994	89.770	110.764	0.00	0.00
ATOM	25209	HB2	PRO	1679	46.413	89.569	111.750	0.00	0.00
ATOM	25210	HB3	PRO	1679	46.722	90.373	110.221	0.00	0.00
ATOM	25211	CA	PRO	1679	44.523	90.290	110.818	0.00	0.00
ATOM	25212	HA	PRO	1679	44.437	90.891	111.724	0.00	0.00
ATOM	25213	C	PRO	1679	44.170	90.992	109.486	0.00	0.00

ATOM	25214	O	PRO	1679	43.626	90.423	108.498	0.00	0.00
ATOM	25215	N	ILE	1680	44.416	92.266	109.445	0.00	0.00
ATOM	25216	H	ILE	1680	44.812	92.624	110.303	0.00	0.00
ATOM	25217	CA	ILE	1680	44.718	92.986	108.198	0.00	0.00
ATOM	25218	HA	ILE	1680	44.670	92.321	107.335	0.00	0.00
ATOM	25219	CB	ILE	1680	43.655	94.123	107.985	0.00	0.00
ATOM	25220	HB	ILE	1680	43.675	94.809	108.832	0.00	0.00
ATOM	25221	CG2	ILE	1680	43.825	95.008	106.721	0.00	0.00
ATOM	25222	1HG2	ILE	1680	42.816	95.313	106.441	0.00	0.00
ATOM	25223	2HG2	ILE	1680	44.399	95.887	107.016	0.00	0.00
ATOM	25224	3HG2	ILE	1680	44.226	94.526	105.830	0.00	0.00
ATOM	25225	CG1	ILE	1680	42.261	93.388	107.997	0.00	0.00
ATOM	25226	2HG1	ILE	1680	41.596	93.885	107.291	0.00	0.00
ATOM	25227	3HG1	ILE	1680	42.238	92.351	107.661	0.00	0.00
ATOM	25228	CD1	ILE	1680	41.476	93.468	109.410	0.00	0.00
ATOM	25229	1HD1	ILE	1680	41.451	94.526	109.671	0.00	0.00
ATOM	25230	2HD1	ILE	1680	40.447	93.110	109.392	0.00	0.00
ATOM	25231	3HD1	ILE	1680	42.079	93.056	110.219	0.00	0.00
ATOM	25232	C	ILE	1680	46.149	93.524	108.229	0.00	0.00
ATOM	25233	O	ILE	1680	46.843	93.495	109.226	0.00	0.00
ATOM	25234	N	GLN	1681	46.671	94.076	107.081	0.00	0.00
ATOM	25235	H	GLN	1681	46.096	93.911	106.266	0.00	0.00
ATOM	25236	CA	GLN	1681	47.888	94.860	107.084	0.00	0.00
ATOM	25237	HA	GLN	1681	47.911	95.389	108.036	0.00	0.00
ATOM	25238	CB	GLN	1681	49.047	93.812	106.837	0.00	0.00
ATOM	25239	HB2	GLN	1681	49.085	93.078	107.641	0.00	0.00

ATOM	25240	HB3	GLN	1681	48.804	93.174	105.987	0.00	0.00
ATOM	25241	CG	GLN	1681	50.471	94.458	106.669	0.00	0.00
ATOM	25242	HG2	GLN	1681	50.424	94.765	105.624	0.00	0.00
ATOM	25243	HG3	GLN	1681	50.730	95.232	107.391	0.00	0.00
ATOM	25244	CD	GLN	1681	51.560	93.385	107.025	0.00	0.00
ATOM	25245	OE1	GLN	1681	51.654	92.828	108.100	0.00	0.00
ATOM	25246	NE2	GLN	1681	52.459	93.039	106.106	0.00	0.00
ATOM	25247	1HE2	GLN	1681	53.195	92.434	106.439	0.00	0.00
ATOM	25248	2HE2	GLN	1681	52.580	93.516	105.224	0.00	0.00
ATOM	25249	C	GLN	1681	47.776	95.834	105.888	0.00	0.00
ATOM	25250	O	GLN	1681	47.409	95.374	104.812	0.00	0.00
ATOM	25251	N	VAL	1682	47.996	97.142	106.088	0.00	0.00
ATOM	25252	H	VAL	1682	48.219	97.493	107.008	0.00	0.00
ATOM	25253	CA	VAL	1682	48.056	98.121	105.027	0.00	0.00
ATOM	25254	HA	VAL	1682	47.700	97.742	104.069	0.00	0.00
ATOM	25255	CB	VAL	1682	47.084	99.218	105.406	0.00	0.00
ATOM	25256	HB	VAL	1682	47.361	99.759	106.311	0.00	0.00
ATOM	25257	CG1	VAL	1682	46.922	100.262	104.268	0.00	0.00
ATOM	25258	1HG1	VAL	1682	46.243	101.080	104.507	0.00	0.00
ATOM	25259	2HG1	VAL	1682	47.843	100.764	103.974	0.00	0.00
ATOM	25260	3HG1	VAL	1682	46.616	99.716	103.375	0.00	0.00
ATOM	25261	CG2	VAL	1682	45.626	98.772	105.561	0.00	0.00
ATOM	25262	1HG2	VAL	1682	45.190	98.310	104.675	0.00	0.00
ATOM	25263	2HG2	VAL	1682	45.559	98.055	106.379	0.00	0.00
ATOM	25264	3HG2	VAL	1682	44.988	99.642	105.712	0.00	0.00
ATOM	25265	C	VAL	1682	49.498	98.651	104.778	0.00	0.00

ATOM	25266	O	VAL	1682	50.225	99.011	105.734	0.00	0.00
ATOM	25267	N	GLY	1683	49.860	98.687	103.517	0.00	0.00
ATOM	25268	H	GLY	1683	49.234	98.306	102.821	0.00	0.00
ATOM	25269	CA	GLY	1683	51.075	99.196	102.861	0.00	0.00
ATOM	25270	HA2	GLY	1683	52.022	98.807	103.235	0.00	0.00
ATOM	25271	HA3	GLY	1683	51.090	98.781	101.853	0.00	0.00
ATOM	25272	C	GLY	1683	51.119	100.702	102.615	0.00	0.00
ATOM	25273	O	GLY	1683	50.099	101.405	102.833	0.00	0.00
ATOM	25274	N	SER	1684	52.268	101.371	102.287	0.00	0.00
ATOM	25275	H	SER	1684	53.092	100.790	102.334	0.00	0.00
ATOM	25276	CA	SER	1684	52.363	102.804	102.510	0.00	0.00
ATOM	25277	HA	SER	1684	51.990	102.998	103.516	0.00	0.00
ATOM	25278	CB	SER	1684	53.798	103.332	102.402	0.00	0.00
ATOM	25279	HB2	SER	1684	53.892	104.418	102.404	0.00	0.00
ATOM	25280	HB3	SER	1684	54.347	102.900	103.239	0.00	0.00
ATOM	25281	OG	SER	1684	54.373	102.960	101.136	0.00	0.00
ATOM	25282	HG	SER	1684	54.150	103.622	100.478	0.00	0.00
ATOM	25283	C	SER	1684	51.611	103.629	101.520	0.00	0.00
ATOM	25284	O	SER	1684	51.172	104.692	101.877	0.00	0.00
ATOM	25285	N	HIE	1685	51.508	103.196	100.285	0.00	0.00
ATOM	25286	H	HIE	1685	51.909	102.279	100.151	0.00	0.00
ATOM	25287	CA	HIE	1685	50.932	103.979	99.139	0.00	0.00
ATOM	25288	HA	HIE	1685	50.878	105.052	99.323	0.00	0.00
ATOM	25289	CB	HIE	1685	51.718	103.857	97.837	0.00	0.00
ATOM	25290	HB2	HIE	1685	52.071	102.827	97.795	0.00	0.00
ATOM	25291	HB3	HIE	1685	51.175	104.170	96.945	0.00	0.00



ATOM	25292	CG	HIE	1685	52.981	104.736	97.941	0.00	0.00
ATOM	25293	ND1	HIE	1685	54.059	104.589	98.861	0.00	0.00
ATOM	25294	CE1	HIE	1685	54.794	105.727	98.577	0.00	0.00
ATOM	25295	HE1	HIE	1685	55.579	106.185	99.160	0.00	0.00
ATOM	25296	NE2	HIE	1685	54.258	106.494	97.627	0.00	0.00
ATOM	25297	HE2	HIE	1685	54.641	107.383	97.341	0.00	0.00
ATOM	25298	CD2	HIE	1685	53.149	105.878	97.168	0.00	0.00
ATOM	25299	HD2	HIE	1685	52.469	106.191	96.389	0.00	0.00
ATOM	25300	C	HIE	1685	49.435	103.667	98.913	0.00	0.00
ATOM	25301	O	HIE	1685	48.853	104.201	98.015	0.00	0.00
ATOM	25302	N	TYR	1686	48.811	102.765	99.720	0.00	0.00
ATOM	25303	H	TYR	1686	49.395	102.281	100.387	0.00	0.00
ATOM	25304	CA	TYR	1686	47.417	102.438	99.520	0.00	0.00
ATOM	25305	HA	TYR	1686	47.243	102.395	98.445	0.00	0.00
ATOM	25306	CB	TYR	1686	46.993	101.116	100.243	0.00	0.00
ATOM	25307	HB2	TYR	1686	47.752	100.361	100.040	0.00	0.00
ATOM	25308	HB3	TYR	1686	47.056	101.216	101.326	0.00	0.00
ATOM	25309	CG	TYR	1686	45.609	100.468	100.067	0.00	0.00
ATOM	25310	CD1	TYR	1686	45.505	99.290	99.267	0.00	0.00
ATOM	25311	HD1	TYR	1686	46.321	98.846	98.715	0.00	0.00
ATOM	25312	CE1	TYR	1686	44.307	98.669	99.170	0.00	0.00
ATOM	25313	HE1	TYR	1686	44.243	97.692	98.713	0.00	0.00
ATOM	25314	CZ	TYR	1686	43.098	99.231	99.641	0.00	0.00
ATOM	25315	OH	TYR	1686	41.834	98.647	99.539	0.00	0.00
ATOM	25316	HH	TYR	1686	41.135	99.100	100.016	0.00	0.00
ATOM	25317	CE2	TYR	1686	43.208	100.447	100.333	0.00	0.00

ATOM	25318	HE2	TYR	1686	42.273	100.891	100.642	0.00	0.00
ATOM	25319	CD2	TYR	1686	44.457	101.024	100.628	0.00	0.00
ATOM	25320	HD2	TYR	1686	44.512	101.947	101.187	0.00	0.00
ATOM	25321	C	TYR	1686	46.397	103.550	99.943	0.00	0.00
ATOM	25322	O	TYR	1686	46.568	104.097	101.024	0.00	0.00
ATOM	25323	N	HID	1687	45.362	103.851	99.147	0.00	0.00
ATOM	25324	H	HID	1687	45.214	103.347	98.285	0.00	0.00
ATOM	25325	CA	HID	1687	44.299	104.811	99.585	0.00	0.00
ATOM	25326	HA	HID	1687	44.788	105.737	99.886	0.00	0.00
ATOM	25327	CB	HID	1687	43.425	105.227	98.355	0.00	0.00
ATOM	25328	HB2	HID	1687	44.053	105.668	97.582	0.00	0.00
ATOM	25329	HB3	HID	1687	42.905	104.354	97.959	0.00	0.00
ATOM	25330	CG	HID	1687	42.291	106.197	98.634	0.00	0.00
ATOM	25331	ND1	HID	1687	41.028	106.082	98.234	0.00	0.00
ATOM	25332	HD1	HID	1687	40.645	105.386	97.611	0.00	0.00
ATOM	25333	CE1	HID	1687	40.358	107.244	98.629	0.00	0.00
ATOM	25334	HE1	HID	1687	39.291	107.409	98.648	0.00	0.00
ATOM	25335	NE2	HID	1687	41.188	107.963	99.355	0.00	0.00
ATOM	25336	CD2	HID	1687	42.411	107.354	99.346	0.00	0.00
ATOM	25337	HD2	HID	1687	43.324	107.768	99.748	0.00	0.00
ATOM	25338	C	HID	1687	43.418	104.284	100.697	0.00	0.00
ATOM	25339	O	HID	1687	42.555	103.452	100.653	0.00	0.00
ATOM	25340	N	PHE	1688	43.693	104.893	101.875	0.00	0.00
ATOM	25341	H	PHE	1688	44.196	105.768	101.906	0.00	0.00
ATOM	25342	CA	PHE	1688	43.241	104.332	103.180	0.00	0.00
ATOM	25343	HA	PHE	1688	43.467	103.269	103.265	0.00	0.00

ATOM	25344	CB	PHE	1688	44.001	105.032	104.322	0.00	0.00
ATOM	25345	HB2	PHE	1688	43.673	106.071	104.302	0.00	0.00
ATOM	25346	HB3	PHE	1688	45.044	104.920	104.026	0.00	0.00
ATOM	25347	CG	PHE	1688	43.850	104.438	105.671	0.00	0.00
ATOM	25348	CD1	PHE	1688	44.224	103.086	105.857	0.00	0.00
ATOM	25349	HD1	PHE	1688	44.785	102.576	105.088	0.00	0.00
ATOM	25350	CE1	PHE	1688	43.966	102.527	107.143	0.00	0.00
ATOM	25351	HE1	PHE	1688	44.385	101.594	107.491	0.00	0.00
ATOM	25352	CZ	PHE	1688	43.246	103.220	108.200	0.00	0.00
ATOM	25353	HZ	PHE	1688	42.810	102.767	109.078	0.00	0.00
ATOM	25354	CE2	PHE	1688	42.855	104.512	107.917	0.00	0.00
ATOM	25355	HE2	PHE	1688	42.227	105.096	108.574	0.00	0.00
ATOM	25356	CD2	PHE	1688	43.241	105.129	106.692	0.00	0.00
ATOM	25357	HD2	PHE	1688	42.888	106.111	106.411	0.00	0.00
ATOM	25358	C	PHE	1688	41.718	104.312	103.497	0.00	0.00
ATOM	25359	O	PHE	1688	41.282	103.509	104.248	0.00	0.00
ATOM	25360	N	ALA	1689	40.885	105.052	102.732	0.00	0.00
ATOM	25361	H	ALA	1689	41.324	105.442	101.910	0.00	0.00
ATOM	25362	CA	ALA	1689	39.455	105.057	102.823	0.00	0.00
ATOM	25363	HA	ALA	1689	39.127	105.174	103.856	0.00	0.00
ATOM	25364	CB	ALA	1689	38.861	106.289	102.051	0.00	0.00
ATOM	25365	HB1	ALA	1689	39.329	106.443	101.078	0.00	0.00
ATOM	25366	HB2	ALA	1689	37.781	106.239	101.908	0.00	0.00
ATOM	25367	HB3	ALA	1689	39.042	107.141	102.705	0.00	0.00
ATOM	25368	C	ALA	1689	38.832	103.785	102.234	0.00	0.00
ATOM	25369	O	ALA	1689	37.655	103.521	102.533	0.00	0.00

ATOM	25370	N	GLU	1690	39.552	103.012	101.375	0.00	0.00
ATOM	25371	H	GLU	1690	40.485	103.318	101.142	0.00	0.00
ATOM	25372	CA	GLU	1690	39.131	101.783	100.753	0.00	0.00
ATOM	25373	HA	GLU	1690	38.051	101.720	100.884	0.00	0.00
ATOM	25374	CB	GLU	1690	39.464	101.925	99.206	0.00	0.00
ATOM	25375	HB2	GLU	1690	40.473	102.273	98.986	0.00	0.00
ATOM	25376	HB3	GLU	1690	39.273	101.008	98.648	0.00	0.00
ATOM	25377	CG	GLU	1690	38.477	102.975	98.628	0.00	0.00
ATOM	25378	HG2	GLU	1690	37.551	102.427	98.800	0.00	0.00
ATOM	25379	HG3	GLU	1690	38.464	103.944	99.127	0.00	0.00
ATOM	25380	CD	GLU	1690	38.705	103.332	97.165	0.00	0.00
ATOM	25381	OE1	GLU	1690	39.180	104.449	96.849	0.00	0.00
ATOM	25382	OE2	GLU	1690	38.206	102.561	96.334	0.00	0.00
ATOM	25383	C	GLU	1690	39.689	100.444	101.433	0.00	0.00
ATOM	25384	O	GLU	1690	39.688	99.348	100.826	0.00	0.00
ATOM	25385	N	VAL	1691	40.130	100.605	102.682	0.00	0.00
ATOM	25386	H	VAL	1691	40.185	101.528	103.089	0.00	0.00
ATOM	25387	CA	VAL	1691	40.603	99.443	103.458	0.00	0.00
ATOM	25388	HA	VAL	1691	41.360	98.919	102.874	0.00	0.00
ATOM	25389	CB	VAL	1691	41.425	99.707	104.767	0.00	0.00
ATOM	25390	HB	VAL	1691	41.601	98.753	105.264	0.00	0.00
ATOM	25391	CG1	VAL	1691	42.749	100.200	104.323	0.00	0.00
ATOM	25392	1HG1	VAL	1691	43.106	99.257	103.908	0.00	0.00
ATOM	25393	2HG1	VAL	1691	42.777	101.025	103.612	0.00	0.00
ATOM	25394	3HG1	VAL	1691	43.310	100.436	105.227	0.00	0.00
ATOM	25395	CG2	VAL	1691	40.693	100.657	105.734	0.00	0.00

ATOM	25396	1HG2	VAL	1691	39.859	100.140	106.209	0.00	0.00
ATOM	25397	2HG2	VAL	1691	41.332	101.069	106.515	0.00	0.00
ATOM	25398	3HG2	VAL	1691	40.304	101.456	105.104	0.00	0.00
ATOM	25399	C	VAL	1691	39.407	98.444	103.706	0.00	0.00
ATOM	25400	O	VAL	1691	38.247	98.753	103.705	0.00	0.00
ATOM	25401	N	ASN	1692	39.769	97.167	104.026	0.00	0.00
ATOM	25402	H	ASN	1692	40.714	96.873	103.824	0.00	0.00
ATOM	25403	CA	ASN	1692	38.945	96.116	104.548	0.00	0.00
ATOM	25404	HA	ASN	1692	38.466	95.524	103.769	0.00	0.00
ATOM	25405	CB	ASN	1692	39.921	95.189	105.333	0.00	0.00
ATOM	25406	HB2	ASN	1692	40.712	94.850	104.664	0.00	0.00
ATOM	25407	HB3	ASN	1692	40.401	95.730	106.149	0.00	0.00
ATOM	25408	CG	ASN	1692	39.159	93.912	105.822	0.00	0.00
ATOM	25409	OD1	ASN	1692	37.956	93.884	106.108	0.00	0.00
ATOM	25410	ND2	ASN	1692	39.921	92.874	105.870	0.00	0.00
ATOM	25411	1HD2	ASN	1692	39.380	92.072	106.160	0.00	0.00
ATOM	25412	2HD2	ASN	1692	40.918	92.902	105.712	0.00	0.00
ATOM	25413	C	ASN	1692	37.863	96.647	105.435	0.00	0.00
ATOM	25414	O	ASN	1692	38.270	97.263	106.437	0.00	0.00
ATOM	25415	N	PRO	1693	36.548	96.434	105.159	0.00	0.00
ATOM	25416	CD	PRO	1693	35.989	96.213	103.771	0.00	0.00
ATOM	25417	HD2	PRO	1693	36.572	96.790	103.053	0.00	0.00
ATOM	25418	HD3	PRO	1693	35.968	95.148	103.542	0.00	0.00
ATOM	25419	CG	PRO	1693	34.541	96.677	103.824	0.00	0.00
ATOM	25420	HG2	PRO	1693	34.513	97.731	103.550	0.00	0.00
ATOM	25421	HG3	PRO	1693	33.985	95.994	103.182	0.00	0.00

ATOM 25422	CB PRO	1693	34.197	96.579	105.306	0.00	0.00
ATOM 25423	HB2 PRO	1693	33.337	97.223	105.491	0.00	0.00
ATOM 25424	HB3 PRO	1693	33.889	95.581	105.617	0.00	0.00
ATOM 25425	CA PRO	1693	35.486	96.956	105.983	0.00	0.00
ATOM 25426	HA PRO	1693	35.613	98.039	105.998	0.00	0.00
ATOM 25427	C PRO	1693	35.580	96.518	107.521	0.00	0.00
ATOM 25428	O PRO	1693	34.779	97.014	108.278	0.00	0.00
ATOM 25429	N ALA	1694	36.348	95.489	107.946	0.00	0.00
ATOM 25430	H ALA	1694	37.063	95.123	107.334	0.00	0.00
ATOM 25431	CA ALA	1694	36.503	95.105	109.336	0.00	0.00
ATOM 25432	HA ALA	1694	35.492	94.866	109.664	0.00	0.00
ATOM 25433	CB ALA	1694	37.242	93.768	109.389	0.00	0.00
ATOM 25434	HB1 ALA	1694	38.179	93.880	108.844	0.00	0.00
ATOM 25435	HB2 ALA	1694	37.474	93.321	110.355	0.00	0.00
ATOM 25436	HB3 ALA	1694	36.747	92.976	108.826	0.00	0.00
ATOM 25437	C ALA	1694	37.182	96.161	110.206	0.00	0.00
ATOM 25438	O ALA	1694	36.996	96.129	111.391	0.00	0.00
ATOM 25439	N LEU	1695	37.946	97.008	109.553	0.00	0.00
ATOM 25440	H LEU	1695	37.806	97.016	108.553	0.00	0.00
ATOM 25441	CA LEU	1695	38.636	98.146	110.141	0.00	0.00
ATOM 25442	HA LEU	1695	39.047	97.896	111.119	0.00	0.00
ATOM 25443	CB LEU	1695	39.785	98.541	109.273	0.00	0.00
ATOM 25444	HB2 LEU	1695	39.409	98.608	108.252	0.00	0.00
ATOM 25445	HB3 LEU	1695	40.115	99.524	109.610	0.00	0.00
ATOM 25446	CG LEU	1695	40.970	97.594	109.319	0.00	0.00
ATOM 25447	HG LEU	1695	40.677	96.755	108.688	0.00	0.00

ATOM	25448	CD1	LEU	1695	42.156	98.293	108.678	0.00	0.00
ATOM	25449	1HD1	LEU	1695	42.706	99.004	109.295	0.00	0.00
ATOM	25450	2HD1	LEU	1695	42.797	97.507	108.280	0.00	0.00
ATOM	25451	3HD1	LEU	1695	41.897	98.899	107.810	0.00	0.00
ATOM	25452	CD2	LEU	1695	41.324	97.063	110.714	0.00	0.00
ATOM	25453	1HD2	LEU	1695	42.296	96.581	110.609	0.00	0.00
ATOM	25454	2HD2	LEU	1695	41.520	97.932	111.342	0.00	0.00
ATOM	25455	3HD2	LEU	1695	40.516	96.464	111.133	0.00	0.00
ATOM	25456	C	LEU	1695	37.584	99.250	110.462	0.00	0.00
ATOM	25457	O	LEU	1695	37.157	99.974	109.536	0.00	0.00
ATOM	25458	N	LYS	1696	37.192	99.453	111.750	0.00	0.00
ATOM	25459	H	LYS	1696	37.754	99.083	112.503	0.00	0.00
ATOM	25460	CA	LYS	1696	36.128	100.373	112.182	0.00	0.00
ATOM	25461	HA	LYS	1696	35.318	100.526	111.469	0.00	0.00
ATOM	25462	CB	LYS	1696	35.398	99.734	113.416	0.00	0.00
ATOM	25463	HB2	LYS	1696	35.004	98.803	113.009	0.00	0.00
ATOM	25464	HB3	LYS	1696	36.148	99.536	114.181	0.00	0.00
ATOM	25465	CG	LYS	1696	34.177	100.558	113.938	0.00	0.00
ATOM	25466	HG2	LYS	1696	34.446	101.520	114.374	0.00	0.00
ATOM	25467	HG3	LYS	1696	33.582	100.773	113.050	0.00	0.00
ATOM	25468	CD	LYS	1696	33.316	99.834	114.972	0.00	0.00
ATOM	25469	HD2	LYS	1696	32.994	98.840	114.660	0.00	0.00
ATOM	25470	HD3	LYS	1696	33.983	99.711	115.825	0.00	0.00
ATOM	25471	CE	LYS	1696	32.130	100.742	115.347	0.00	0.00
ATOM	25472	HE2	LYS	1696	32.544	101.706	115.642	0.00	0.00
ATOM	25473	HE3	LYS	1696	31.392	100.752	114.545	0.00	0.00

ATOM	25474	NZ	LYS	1696	31.535	100.267	116.610	0.00	0.00
ATOM	25475	HZ1	LYS	1696	30.706	100.824	116.762	0.00	0.00
ATOM	25476	HZ2	LYS	1696	31.298	99.286	116.619	0.00	0.00
ATOM	25477	HZ3	LYS	1696	32.154	100.470	117.382	0.00	0.00
ATOM	25478	C	LYS	1696	36.675	101.723	112.516	0.00	0.00
ATOM	25479	O	LYS	1696	37.503	101.788	113.429	0.00	0.00
ATOM	25480	N	PHE	1697	36.295	102.769	111.692	0.00	0.00
ATOM	25481	H	PHE	1697	35.753	102.469	110.894	0.00	0.00
ATOM	25482	CA	PHE	1697	36.597	104.225	111.731	0.00	0.00
ATOM	25483	HA	PHE	1697	36.252	104.685	112.657	0.00	0.00
ATOM	25484	CB	PHE	1697	38.096	104.546	111.533	0.00	0.00
ATOM	25485	HB2	PHE	1697	38.284	105.602	111.730	0.00	0.00
ATOM	25486	HB3	PHE	1697	38.609	103.923	112.266	0.00	0.00
ATOM	25487	CG	PHE	1697	38.590	104.362	110.054	0.00	0.00
ATOM	25488	CD1	PHE	1697	38.765	103.086	109.509	0.00	0.00
ATOM	25489	HD1	PHE	1697	38.588	102.186	110.080	0.00	0.00
ATOM	25490	CE1	PHE	1697	39.200	102.955	108.182	0.00	0.00
ATOM	25491	HE1	PHE	1697	39.251	101.964	107.757	0.00	0.00
ATOM	25492	CZ	PHE	1697	39.510	104.072	107.412	0.00	0.00
ATOM	25493	HZ	PHE	1697	40.045	103.927	106.485	0.00	0.00
ATOM	25494	CE2	PHE	1697	39.453	105.384	107.993	0.00	0.00
ATOM	25495	HE2	PHE	1697	39.941	106.217	107.510	0.00	0.00
ATOM	25496	CD2	PHE	1697	38.929	105.500	109.276	0.00	0.00
ATOM	25497	HD2	PHE	1697	38.863	106.471	109.744	0.00	0.00
ATOM	25498	C	PHE	1697	35.812	104.944	110.593	0.00	0.00
ATOM	25499	O	PHE	1697	35.344	104.288	109.692	0.00	0.00



ATOM	25500	N	ASP	1698	35.828	106.292	110.537	0.00	0.00
ATOM	25501	H	ASP	1698	36.377	106.809	111.210	0.00	0.00
ATOM	25502	CA	ASP	1698	35.081	107.045	109.512	0.00	0.00
ATOM	25503	HA	ASP	1698	34.126	106.561	109.306	0.00	0.00
ATOM	25504	CB	ASP	1698	34.614	108.381	110.071	0.00	0.00
ATOM	25505	HB2	ASP	1698	33.799	108.172	110.764	0.00	0.00
ATOM	25506	HB3	ASP	1698	35.409	108.860	110.642	0.00	0.00
ATOM	25507	CG	ASP	1698	34.038	109.369	109.099	0.00	0.00
ATOM	25508	OD1	ASP	1698	34.607	110.497	108.984	0.00	0.00
ATOM	25509	OD2	ASP	1698	33.126	108.994	108.366	0.00	0.00
ATOM	25510	C	ASP	1698	35.852	107.144	108.184	0.00	0.00
ATOM	25511	O	ASP	1698	36.812	107.918	108.136	0.00	0.00
ATOM	25512	N	ARG	1699	35.492	106.473	107.088	0.00	0.00
ATOM	25513	H	ARG	1699	34.767	105.779	107.204	0.00	0.00
ATOM	25514	CA	ARG	1699	36.318	106.399	105.814	0.00	0.00
ATOM	25515	HA	ARG	1699	37.269	106.019	106.186	0.00	0.00
ATOM	25516	CB	ARG	1699	35.607	105.333	104.839	0.00	0.00
ATOM	25517	HB2	ARG	1699	34.548	105.581	104.771	0.00	0.00
ATOM	25518	HB3	ARG	1699	35.974	105.431	103.817	0.00	0.00
ATOM	25519	CG	ARG	1699	35.881	103.878	105.238	0.00	0.00
ATOM	25520	HG2	ARG	1699	35.319	103.181	104.617	0.00	0.00
ATOM	25521	HG3	ARG	1699	36.935	103.736	104.999	0.00	0.00
ATOM	25522	CD	ARG	1699	35.635	103.481	106.643	0.00	0.00
ATOM	25523	HD2	ARG	1699	36.329	103.998	107.306	0.00	0.00
ATOM	25524	HD3	ARG	1699	34.641	103.803	106.954	0.00	0.00
ATOM	25525	NE	ARG	1699	35.783	101.972	106.763	0.00	0.00

ATOM	25526	HE	ARG	1699	36.209	101.452	106.010	0.00	0.00
ATOM	25527	CZ	ARG	1699	35.094	101.269	107.602	0.00	0.00
ATOM	25528	NH1	ARG	1699	34.535	101.749	108.649	0.00	0.00
ATOM	25529	1HH1	ARG	1699	33.957	101.135	109.204	0.00	0.00
ATOM	25530	2HH1	ARG	1699	34.536	102.751	108.776	0.00	0.00
ATOM	25531	NH2	ARG	1699	34.835	100.008	107.352	0.00	0.00
ATOM	25532	1HH2	ARG	1699	34.251	99.611	108.074	0.00	0.00
ATOM	25533	2HH2	ARG	1699	35.192	99.579	106.510	0.00	0.00
ATOM	25534	C	ARG	1699	36.494	107.758	105.237	0.00	0.00
ATOM	25535	O	ARG	1699	37.543	108.044	104.616	0.00	0.00
ATOM	25536	N	GLN	1700	35.545	108.677	105.405	0.00	0.00
ATOM	25537	H	GLN	1700	34.679	108.508	105.898	0.00	0.00
ATOM	25538	CA	GLN	1700	35.694	109.989	104.779	0.00	0.00
ATOM	25539	HA	GLN	1700	35.937	109.856	103.725	0.00	0.00
ATOM	25540	CB	GLN	1700	34.399	110.850	105.010	0.00	0.00
ATOM	25541	HB2	GLN	1700	33.541	110.246	104.718	0.00	0.00
ATOM	25542	HB3	GLN	1700	34.468	111.179	106.047	0.00	0.00
ATOM	25543	CG	GLN	1700	34.256	112.048	104.159	0.00	0.00
ATOM	25544	HG2	GLN	1700	35.101	112.736	104.127	0.00	0.00
ATOM	25545	HG3	GLN	1700	34.206	111.752	103.111	0.00	0.00
ATOM	25546	CD	GLN	1700	32.881	112.796	104.333	0.00	0.00
ATOM	25547	OE1	GLN	1700	32.149	112.702	105.325	0.00	0.00
ATOM	25548	NE2	GLN	1700	32.552	113.614	103.378	0.00	0.00
ATOM	25549	1HE2	GLN	1700	31.695	114.148	103.415	0.00	0.00
ATOM	25550	2HE2	GLN	1700	33.294	113.954	102.783	0.00	0.00
ATOM	25551	C	GLN	1700	36.826	110.849	105.367	0.00	0.00

ATOM	25552	O	GLN	1700	37.436	111.654	104.693	0.00	0.00
ATOM	25553	N	GLN	1701	37.275	110.691	106.709	0.00	0.00
ATOM	25554	H	GLN	1701	36.944	109.898	107.240	0.00	0.00
ATOM	25555	CA	GLN	1701	38.454	111.355	107.191	0.00	0.00
ATOM	25556	HA	GLN	1701	38.521	112.403	106.899	0.00	0.00
ATOM	25557	CB	GLN	1701	38.365	111.352	108.623	0.00	0.00
ATOM	25558	HB2	GLN	1701	38.162	110.332	108.947	0.00	0.00
ATOM	25559	HB3	GLN	1701	39.285	111.668	109.115	0.00	0.00
ATOM	25560	CG	GLN	1701	37.313	112.308	109.227	0.00	0.00
ATOM	25561	HG2	GLN	1701	37.657	113.332	109.081	0.00	0.00
ATOM	25562	HG3	GLN	1701	36.361	112.272	108.696	0.00	0.00
ATOM	25563	CD	GLN	1701	37.069	112.218	110.724	0.00	0.00
ATOM	25564	OE1	GLN	1701	37.887	112.636	111.536	0.00	0.00
ATOM	25565	NE2	GLN	1701	35.945	111.585	111.122	0.00	0.00
ATOM	25566	1HE2	GLN	1701	35.719	111.593	112.106	0.00	0.00
ATOM	25567	2HE2	GLN	1701	35.307	111.303	110.392	0.00	0.00
ATOM	25568	C	GLN	1701	39.761	110.698	106.764	0.00	0.00
ATOM	25569	O	GLN	1701	40.814	111.174	107.216	0.00	0.00
ATOM	25570	N	ALA	1702	39.769	109.662	105.848	0.00	0.00
ATOM	25571	H	ALA	1702	38.913	109.220	105.545	0.00	0.00
ATOM	25572	CA	ALA	1702	40.912	109.204	105.056	0.00	0.00
ATOM	25573	HA	ALA	1702	41.834	109.641	105.439	0.00	0.00
ATOM	25574	CB	ALA	1702	41.008	107.753	105.337	0.00	0.00
ATOM	25575	HB1	ALA	1702	41.761	107.287	104.701	0.00	0.00
ATOM	25576	HB2	ALA	1702	41.396	107.779	106.355	0.00	0.00
ATOM	25577	HB3	ALA	1702	40.067	107.225	105.180	0.00	0.00

ATOM	25578	C	ALA	1702	40.828	109.422	103.500	0.00	0.00
ATOM	25579	O	ALA	1702	41.693	108.981	102.734	0.00	0.00
ATOM	25580	N	ALA	1703	39.811	110.116	103.036	0.00	0.00
ATOM	25581	H	ALA	1703	39.087	110.453	103.655	0.00	0.00
ATOM	25582	CA	ALA	1703	39.486	110.333	101.577	0.00	0.00
ATOM	25583	HA	ALA	1703	39.641	109.391	101.052	0.00	0.00
ATOM	25584	CB	ALA	1703	37.999	110.766	101.460	0.00	0.00
ATOM	25585	HB1	ALA	1703	37.253	110.077	101.856	0.00	0.00
ATOM	25586	HB2	ALA	1703	37.894	111.729	101.960	0.00	0.00
ATOM	25587	HB3	ALA	1703	37.871	110.950	100.394	0.00	0.00
ATOM	25588	C	ALA	1703	40.543	111.269	101.022	0.00	0.00
ATOM	25589	O	ALA	1703	40.754	112.315	101.470	0.00	0.00
ATOM	25590	N	GLY	1704	41.173	110.819	99.930	0.00	0.00
ATOM	25591	H	GLY	1704	40.893	109.915	99.576	0.00	0.00
ATOM	25592	CA	GLY	1704	42.317	111.419	99.282	0.00	0.00
ATOM	25593	HA2	GLY	1704	42.316	111.026	98.265	0.00	0.00
ATOM	25594	HA3	GLY	1704	42.087	112.484	99.247	0.00	0.00
ATOM	25595	C	GLY	1704	43.741	111.225	99.959	0.00	0.00
ATOM	25596	O	GLY	1704	44.706	111.912	99.662	0.00	0.00
ATOM	25597	N	TYR	1705	43.824	110.204	100.834	0.00	0.00
ATOM	25598	H	TYR	1705	43.021	109.594	100.887	0.00	0.00
ATOM	25599	CA	TYR	1705	45.025	110.021	101.707	0.00	0.00
ATOM	25600	HA	TYR	1705	45.863	110.644	101.395	0.00	0.00
ATOM	25601	CB	TYR	1705	44.614	110.401	103.122	0.00	0.00
ATOM	25602	HB2	TYR	1705	43.654	109.936	103.345	0.00	0.00
ATOM	25603	HB3	TYR	1705	45.321	109.875	103.763	0.00	0.00

ATOM	25604	CG	TYR	1705	44.721	111.885	103.404	0.00	0.00
ATOM	25605	CD1	TYR	1705	43.699	112.807	103.034	0.00	0.00
ATOM	25606	HD1	TYR	1705	42.850	112.403	102.502	0.00	0.00
ATOM	25607	CE1	TYR	1705	43.897	114.207	103.327	0.00	0.00
ATOM	25608	HE1	TYR	1705	43.193	114.972	103.033	0.00	0.00
ATOM	25609	CZ	TYR	1705	45.075	114.652	103.905	0.00	0.00
ATOM	25610	OH	TYR	1705	45.123	115.928	104.238	0.00	0.00
ATOM	25611	HH	TYR	1705	45.932	116.348	104.538	0.00	0.00
ATOM	25612	CE2	TYR	1705	46.102	113.797	104.209	0.00	0.00
ATOM	25613	HE2	TYR	1705	46.973	114.161	104.735	0.00	0.00
ATOM	25614	CD2	TYR	1705	45.882	112.423	103.933	0.00	0.00
ATOM	25615	HD2	TYR	1705	46.722	111.752	104.038	0.00	0.00
ATOM	25616	C	TYR	1705	45.462	108.535	101.680	0.00	0.00
ATOM	25617	O	TYR	1705	44.697	107.588	101.793	0.00	0.00
ATOM	25618	N	ARG	1706	46.844	108.366	101.585	0.00	0.00
ATOM	25619	H	ARG	1706	47.419	109.196	101.552	0.00	0.00
ATOM	25620	CA	ARG	1706	47.459	107.026	101.843	0.00	0.00
ATOM	25621	HA	ARG	1706	46.658	106.339	102.115	0.00	0.00
ATOM	25622	CB	ARG	1706	48.154	106.602	100.522	0.00	0.00
ATOM	25623	HB2	ARG	1706	48.675	105.649	100.616	0.00	0.00
ATOM	25624	HB3	ARG	1706	47.354	106.391	99.811	0.00	0.00
ATOM	25625	CG	ARG	1706	49.106	107.602	99.854	0.00	0.00
ATOM	25626	HG2	ARG	1706	49.350	107.194	98.873	0.00	0.00
ATOM	25627	HG3	ARG	1706	48.638	108.583	99.773	0.00	0.00
ATOM	25628	CD	ARG	1706	50.400	107.734	100.723	0.00	0.00
ATOM	25629	HD2	ARG	1706	50.158	108.376	101.570	0.00	0.00

ATOM	25630	HD3	ARG	1706	50.705	106.772	101.135	0.00	0.00
ATOM	25631	NE	ARG	1706	51.547	108.412	100.043	0.00	0.00
ATOM	25632	HE	ARG	1706	51.395	108.708	99.089	0.00	0.00
ATOM	25633	CZ	ARG	1706	52.783	108.447	100.440	0.00	0.00
ATOM	25634	NH1	ARG	1706	53.185	107.882	101.522	0.00	0.00
ATOM	25635	1HH1	ARG	1706	54.174	107.950	101.716	0.00	0.00
ATOM	25636	2HH1	ARG	1706	52.515	107.487	102.166	0.00	0.00
ATOM	25637	NH2	ARG	1706	53.744	109.032	99.753	0.00	0.00
ATOM	25638	1HH2	ARG	1706	54.676	108.992	100.139	0.00	0.00
ATOM	25639	2HH2	ARG	1706	53.582	109.387	98.822	0.00	0.00
ATOM	25640	C	ARG	1706	48.273	107.092	103.159	0.00	0.00
ATOM	25641	O	ARG	1706	48.119	108.082	103.852	0.00	0.00
ATOM	25642	N	LEU	1707	49.104	106.158	103.623	0.00	0.00
ATOM	25643	H	LEU	1707	49.320	105.299	103.136	0.00	0.00
ATOM	25644	CA	LEU	1707	49.753	106.294	105.008	0.00	0.00
ATOM	25645	HA	LEU	1707	49.015	106.754	105.665	0.00	0.00
ATOM	25646	CB	LEU	1707	50.019	104.856	105.603	0.00	0.00
ATOM	25647	HB2	LEU	1707	50.609	104.257	104.910	0.00	0.00
ATOM	25648	HB3	LEU	1707	50.643	105.057	106.473	0.00	0.00
ATOM	25649	CG	LEU	1707	48.793	104.140	106.138	0.00	0.00
ATOM	25650	HG	LEU	1707	48.148	104.691	106.823	0.00	0.00
ATOM	25651	CD1	LEU	1707	47.948	103.638	104.958	0.00	0.00
ATOM	25652	1HD1	LEU	1707	47.385	104.486	104.568	0.00	0.00
ATOM	25653	2HD1	LEU	1707	48.538	103.078	104.232	0.00	0.00
ATOM	25654	3HD1	LEU	1707	47.169	102.946	105.279	0.00	0.00
ATOM	25655	CD2	LEU	1707	49.268	102.854	106.874	0.00	0.00

ATOM	25656	1HD2	LEU	1707	49.660	102.127	106.163	0.00	0.00
ATOM	25657	2HD2	LEU	1707	50.091	103.068	107.555	0.00	0.00
ATOM	25658	3HD2	LEU	1707	48.472	102.336	107.410	0.00	0.00
ATOM	25659	C	LEU	1707	50.963	107.219	104.978	0.00	0.00
ATOM	25660	O	LEU	1707	51.672	107.266	103.964	0.00	0.00
ATOM	25661	N	ASN	1708	51.287	107.787	106.159	0.00	0.00
ATOM	25662	H	ASN	1708	50.692	107.542	106.938	0.00	0.00
ATOM	25663	CA	ASN	1708	52.507	108.558	106.365	0.00	0.00
ATOM	25664	HA	ASN	1708	52.990	108.841	105.429	0.00	0.00
ATOM	25665	CB	ASN	1708	52.281	109.818	107.146	0.00	0.00
ATOM	25666	HB2	ASN	1708	51.408	110.361	106.785	0.00	0.00
ATOM	25667	HB3	ASN	1708	52.097	109.624	108.203	0.00	0.00
ATOM	25668	CG	ASN	1708	53.567	110.727	106.890	0.00	0.00
ATOM	25669	OD1	ASN	1708	54.162	110.622	105.847	0.00	0.00
ATOM	25670	ND2	ASN	1708	53.899	111.656	107.714	0.00	0.00
ATOM	25671	1HD2	ASN	1708	54.741	112.210	107.639	0.00	0.00
ATOM	25672	2HD2	ASN	1708	53.327	111.793	108.535	0.00	0.00
ATOM	25673	C	ASN	1708	53.597	107.679	107.147	0.00	0.00
ATOM	25674	O	ASN	1708	53.585	107.549	108.360	0.00	0.00
ATOM	25675	N	ILE	1709	54.367	106.854	106.410	0.00	0.00
ATOM	25676	H	ILE	1709	54.121	106.705	105.441	0.00	0.00
ATOM	25677	CA	ILE	1709	55.406	105.921	106.800	0.00	0.00
ATOM	25678	HA	ILE	1709	55.842	106.321	107.716	0.00	0.00
ATOM	25679	CB	ILE	1709	54.839	104.493	107.259	0.00	0.00
ATOM	25680	HB	ILE	1709	55.644	103.762	107.336	0.00	0.00
ATOM	25681	CG2	ILE	1709	54.192	104.525	108.639	0.00	0.00

ATOM	25682	1HG2	ILE	1709	54.842	105.156	109.245	0.00	0.00
ATOM	25683	2HG2	ILE	1709	53.200	104.975	108.663	0.00	0.00
ATOM	25684	3HG2	ILE	1709	54.182	103.562	109.149	0.00	0.00
ATOM	25685	CG1	ILE	1709	53.937	103.905	106.193	0.00	0.00
ATOM	25686	2HG1	ILE	1709	53.041	104.520	106.107	0.00	0.00
ATOM	25687	3HG1	ILE	1709	54.442	103.993	105.231	0.00	0.00
ATOM	25688	CD1	ILE	1709	53.412	102.453	106.367	0.00	0.00
ATOM	25689	1HD1	ILE	1709	52.747	102.291	105.519	0.00	0.00
ATOM	25690	2HD1	ILE	1709	54.172	101.675	106.292	0.00	0.00
ATOM	25691	3HD1	ILE	1709	53.015	102.344	107.376	0.00	0.00
ATOM	25692	C	ILE	1709	56.408	105.883	105.571	0.00	0.00
ATOM	25693	O	ILE	1709	55.978	106.345	104.533	0.00	0.00
ATOM	25694	N	PRO	1710	57.625	105.344	105.632	0.00	0.00
ATOM	25695	CD	PRO	1710	58.154	104.591	106.752	0.00	0.00
ATOM	25696	HD2	PRO	1710	58.026	105.198	107.648	0.00	0.00
ATOM	25697	HD3	PRO	1710	57.859	103.548	106.870	0.00	0.00
ATOM	25698	CG	PRO	1710	59.608	104.538	106.436	0.00	0.00
ATOM	25699	HG2	PRO	1710	60.093	105.429	106.836	0.00	0.00
ATOM	25700	HG3	PRO	1710	59.904	103.633	106.967	0.00	0.00
ATOM	25701	CB	PRO	1710	59.720	104.528	104.896	0.00	0.00
ATOM	25702	HB2	PRO	1710	60.616	105.095	104.643	0.00	0.00
ATOM	25703	HB3	PRO	1710	59.905	103.527	104.507	0.00	0.00
ATOM	25704	CA	PRO	1710	58.390	105.172	104.417	0.00	0.00
ATOM	25705	HA	PRO	1710	58.632	106.133	103.965	0.00	0.00
ATOM	25706	C	PRO	1710	57.743	104.293	103.362	0.00	0.00
ATOM	25707	O	PRO	1710	57.076	103.310	103.648	0.00	0.00



ATOM	25708	N	ALA	1711	58.110	104.582	102.101	0.00	0.00
ATOM	25709	H	ALA	1711	58.769	105.342	102.006	0.00	0.00
ATOM	25710	CA	ALA	1711	57.579	104.039	100.854	0.00	0.00
ATOM	25711	HA	ALA	1711	56.497	104.083	100.979	0.00	0.00
ATOM	25712	CB	ALA	1711	58.050	104.866	99.703	0.00	0.00
ATOM	25713	HB1	ALA	1711	59.138	104.930	99.701	0.00	0.00
ATOM	25714	HB2	ALA	1711	57.751	104.277	98.836	0.00	0.00
ATOM	25715	HB3	ALA	1711	57.600	105.859	99.705	0.00	0.00
ATOM	25716	C	ALA	1711	57.887	102.541	100.775	0.00	0.00
ATOM	25717	O	ALA	1711	59.018	102.109	100.712	0.00	0.00
ATOM	25718	N	GLY	1712	56.841	101.693	100.643	0.00	0.00
ATOM	25719	H	GLY	1712	55.936	102.135	100.720	0.00	0.00
ATOM	25720	CA	GLY	1712	56.921	100.295	100.616	0.00	0.00
ATOM	25721	HA2	GLY	1712	56.034	100.014	100.048	0.00	0.00
ATOM	25722	HA3	GLY	1712	57.813	99.914	100.120	0.00	0.00
ATOM	25723	C	GLY	1712	56.839	99.674	101.999	0.00	0.00
ATOM	25724	O	GLY	1712	56.749	98.454	102.109	0.00	0.00
ATOM	25725	N	THR	1713	56.767	100.449	103.078	0.00	0.00
ATOM	25726	H	THR	1713	56.827	101.452	102.970	0.00	0.00
ATOM	25727	CA	THR	1713	56.512	99.830	104.399	0.00	0.00
ATOM	25728	HA	THR	1713	56.943	98.834	104.502	0.00	0.00
ATOM	25729	CB	THR	1713	57.216	100.511	105.543	0.00	0.00
ATOM	25730	HB	THR	1713	57.191	99.842	106.403	0.00	0.00
ATOM	25731	CG2	THR	1713	58.716	100.774	105.189	0.00	0.00
ATOM	25732	1HG2	THR	1713	59.177	99.792	105.083	0.00	0.00
ATOM	25733	2HG2	THR	1713	58.894	101.466	104.365	0.00	0.00

ATOM	25734	3HG2	THR	1713	59.084	101.273	106.085	0.00	0.00
ATOM	25735	OG1	THR	1713	56.726	101.746	105.808	0.00	0.00
ATOM	25736	HG1	THR	1713	56.823	102.273	105.011	0.00	0.00
ATOM	25737	C	THR	1713	55.020	99.643	104.797	0.00	0.00
ATOM	25738	O	THR	1713	54.202	99.910	103.950	0.00	0.00
ATOM	25739	N	ALA	1714	54.687	99.050	105.942	0.00	0.00
ATOM	25740	H	ALA	1714	55.349	98.776	106.654	0.00	0.00
ATOM	25741	CA	ALA	1714	53.337	98.691	106.300	0.00	0.00
ATOM	25742	HA	ALA	1714	52.644	99.439	105.914	0.00	0.00
ATOM	25743	CB	ALA	1714	53.045	97.369	105.650	0.00	0.00
ATOM	25744	HB1	ALA	1714	53.550	96.570	106.193	0.00	0.00
ATOM	25745	HB2	ALA	1714	52.002	97.089	105.798	0.00	0.00
ATOM	25746	HB3	ALA	1714	53.275	97.385	104.585	0.00	0.00
ATOM	25747	C	ALA	1714	52.994	98.622	107.774	0.00	0.00
ATOM	25748	O	ALA	1714	53.847	98.753	108.683	0.00	0.00
ATOM	25749	N	VAL	1715	51.628	98.334	107.958	0.00	0.00
ATOM	25750	H	VAL	1715	51.003	98.106	107.197	0.00	0.00
ATOM	25751	CA	VAL	1715	51.047	98.496	109.328	0.00	0.00
ATOM	25752	HA	VAL	1715	51.817	98.320	110.078	0.00	0.00
ATOM	25753	CB	VAL	1715	50.346	99.855	109.534	0.00	0.00
ATOM	25754	HB	VAL	1715	49.736	100.124	108.671	0.00	0.00
ATOM	25755	CG1	VAL	1715	49.674	99.804	110.897	0.00	0.00
ATOM	25756	1HG1	VAL	1715	48.783	99.176	110.883	0.00	0.00
ATOM	25757	2HG1	VAL	1715	50.336	99.562	111.728	0.00	0.00
ATOM	25758	3HG1	VAL	1715	49.346	100.833	111.051	0.00	0.00
ATOM	25759	CG2	VAL	1715	51.327	100.955	109.590	0.00	0.00

ATOM	25760	1HG2	VAL	1715	52.164	100.830	110.277	0.00	0.00
ATOM	25761	2HG2	VAL	1715	51.758	101.013	108.591	0.00	0.00
ATOM	25762	3HG2	VAL	1715	50.856	101.927	109.731	0.00	0.00
ATOM	25763	C	VAL	1715	50.107	97.322	109.527	0.00	0.00
ATOM	25764	O	VAL	1715	49.006	97.290	109.005	0.00	0.00
ATOM	25765	N	ARG	1716	50.598	96.294	110.200	0.00	0.00
ATOM	25766	H	ARG	1716	51.504	96.520	110.586	0.00	0.00
ATOM	25767	CA	ARG	1716	49.714	95.130	110.614	0.00	0.00
ATOM	25768	HA	ARG	1716	49.272	94.787	109.679	0.00	0.00
ATOM	25769	CB	ARG	1716	50.631	94.021	111.156	0.00	0.00
ATOM	25770	HB2	ARG	1716	51.615	94.014	110.687	0.00	0.00
ATOM	25771	HB3	ARG	1716	50.835	94.194	112.213	0.00	0.00
ATOM	25772	CG	ARG	1716	49.978	92.654	111.051	0.00	0.00
ATOM	25773	HG2	ARG	1716	49.227	92.637	111.841	0.00	0.00
ATOM	25774	HG3	ARG	1716	49.482	92.485	110.095	0.00	0.00
ATOM	25775	CD	ARG	1716	50.868	91.457	111.226	0.00	0.00
ATOM	25776	HD2	ARG	1716	51.738	91.679	110.609	0.00	0.00
ATOM	25777	HD3	ARG	1716	51.216	91.396	112.257	0.00	0.00
ATOM	25778	NE	ARG	1716	50.213	90.166	110.889	0.00	0.00
ATOM	25779	HE	ARG	1716	49.531	89.770	111.521	0.00	0.00
ATOM	25780	CZ	ARG	1716	50.216	89.597	109.715	0.00	0.00
ATOM	25781	NH1	ARG	1716	50.868	90.146	108.753	0.00	0.00
ATOM	25782	1HH1	ARG	1716	50.513	89.753	107.893	0.00	0.00
ATOM	25783	2HH1	ARG	1716	51.095	91.128	108.820	0.00	0.00
ATOM	25784	NH2	ARG	1716	49.585	88.477	109.523	0.00	0.00
ATOM	25785	1HH2	ARG	1716	49.587	88.008	108.629	0.00	0.00

ATOM	25786	2HH2	ARG	1716	49.348	87.916	110.328	0.00	0.00
ATOM	25787	C	ARG	1716	48.665	95.579	111.598	0.00	0.00
ATOM	25788	O	ARG	1716	49.002	96.125	112.684	0.00	0.00
ATOM	25789	N	PHE	1717	47.455	95.197	111.371	0.00	0.00
ATOM	25790	H	PHE	1717	47.333	94.682	110.511	0.00	0.00
ATOM	25791	CA	PHE	1717	46.176	95.379	112.209	0.00	0.00
ATOM	25792	HA	PHE	1717	46.263	96.087	113.033	0.00	0.00
ATOM	25793	CB	PHE	1717	45.074	95.898	111.302	0.00	0.00
ATOM	25794	HB2	PHE	1717	45.230	95.348	110.374	0.00	0.00
ATOM	25795	HB3	PHE	1717	44.095	95.665	111.719	0.00	0.00
ATOM	25796	CG	PHE	1717	45.255	97.396	110.963	0.00	0.00
ATOM	25797	CD1	PHE	1717	44.676	98.397	111.836	0.00	0.00
ATOM	25798	HD1	PHE	1717	43.977	98.163	112.626	0.00	0.00
ATOM	25799	CE1	PHE	1717	44.917	99.778	111.495	0.00	0.00
ATOM	25800	HE1	PHE	1717	44.674	100.565	112.194	0.00	0.00
ATOM	25801	CZ	PHE	1717	45.755	100.123	110.421	0.00	0.00
ATOM	25802	HZ	PHE	1717	45.905	101.179	110.252	0.00	0.00
ATOM	25803	CE2	PHE	1717	46.161	99.068	109.528	0.00	0.00
ATOM	25804	HE2	PHE	1717	46.791	99.226	108.664	0.00	0.00
ATOM	25805	CD2	PHE	1717	45.947	97.723	109.824	0.00	0.00
ATOM	25806	HD2	PHE	1717	46.401	97.091	109.076	0.00	0.00
ATOM	25807	C	PHE	1717	45.748	93.989	112.815	0.00	0.00
ATOM	25808	O	PHE	1717	45.054	93.283	112.138	0.00	0.00
ATOM	25809	N	GLU	1718	46.191	93.653	114.038	0.00	0.00
ATOM	25810	H	GLU	1718	46.665	94.314	114.637	0.00	0.00
ATOM	25811	CA	GLU	1718	45.880	92.369	114.617	0.00	0.00

ATOM	25812	HA	GLU	1718	45.912	91.545	113.904	0.00	0.00
ATOM	25813	CB	GLU	1718	46.995	92.099	115.690	0.00	0.00
ATOM	25814	HB2	GLU	1718	47.178	92.964	116.327	0.00	0.00
ATOM	25815	HB3	GLU	1718	46.635	91.320	116.362	0.00	0.00
ATOM	25816	CG	GLU	1718	48.286	91.635	115.005	0.00	0.00
ATOM	25817	HG2	GLU	1718	48.799	92.452	114.496	0.00	0.00
ATOM	25818	HG3	GLU	1718	48.959	91.347	115.812	0.00	0.00
ATOM	25819	CD	GLU	1718	48.118	90.422	114.075	0.00	0.00
ATOM	25820	OE1	GLU	1718	47.300	89.521	114.415	0.00	0.00
ATOM	25821	OE2	GLU	1718	48.890	90.206	113.148	0.00	0.00
ATOM	25822	C	GLU	1718	44.498	92.448	115.362	0.00	0.00
ATOM	25823	O	GLU	1718	44.122	93.538	115.801	0.00	0.00
ATOM	25824	N	PRO	1719	43.780	91.299	115.460	0.00	0.00
ATOM	25825	CD	PRO	1719	44.186	89.917	115.252	0.00	0.00
ATOM	25826	HD2	PRO	1719	44.207	89.714	114.182	0.00	0.00
ATOM	25827	HD3	PRO	1719	45.182	89.710	115.643	0.00	0.00
ATOM	25828	CG	PRO	1719	43.181	88.961	116.024	0.00	0.00
ATOM	25829	HG2	PRO	1719	43.117	87.962	115.592	0.00	0.00
ATOM	25830	HG3	PRO	1719	43.470	89.027	117.072	0.00	0.00
ATOM	25831	CB	PRO	1719	41.964	89.733	115.724	0.00	0.00
ATOM	25832	HB2	PRO	1719	41.734	89.613	114.665	0.00	0.00
ATOM	25833	HB3	PRO	1719	41.128	89.441	116.360	0.00	0.00
ATOM	25834	CA	PRO	1719	42.366	91.224	115.797	0.00	0.00
ATOM	25835	HA	PRO	1719	41.906	91.849	115.031	0.00	0.00
ATOM	25836	C	PRO	1719	42.091	91.840	117.158	0.00	0.00
ATOM	25837	O	PRO	1719	42.750	91.541	118.154	0.00	0.00

ATOM	25838	N	GLY	1720	41.162	92.819	117.229	0.00	0.00
ATOM	25839	H	GLY	1720	40.670	93.118	116.398	0.00	0.00
ATOM	25840	CA	GLY	1720	40.898	93.693	118.419	0.00	0.00
ATOM	25841	HA2	GLY	1720	39.901	94.134	118.434	0.00	0.00
ATOM	25842	HA3	GLY	1720	41.045	93.125	119.337	0.00	0.00
ATOM	25843	C	GLY	1720	41.830	94.861	118.589	0.00	0.00
ATOM	25844	O	GLY	1720	41.626	95.693	119.515	0.00	0.00
ATOM	25845	N	GLN	1721	42.936	94.908	117.907	0.00	0.00
ATOM	25846	H	GLN	1721	43.206	94.272	117.171	0.00	0.00
ATOM	25847	CA	GLN	1721	43.934	95.941	118.081	0.00	0.00
ATOM	25848	HA	GLN	1721	44.242	95.991	119.126	0.00	0.00
ATOM	25849	CB	GLN	1721	45.175	95.758	117.158	0.00	0.00
ATOM	25850	HB2	GLN	1721	45.664	94.801	117.343	0.00	0.00
ATOM	25851	HB3	GLN	1721	44.881	95.884	116.116	0.00	0.00
ATOM	25852	CG	GLN	1721	46.138	96.831	117.283	0.00	0.00
ATOM	25853	HG2	GLN	1721	45.635	97.726	116.916	0.00	0.00
ATOM	25854	HG3	GLN	1721	46.331	96.987	118.344	0.00	0.00
ATOM	25855	CD	GLN	1721	47.395	96.528	116.540	0.00	0.00
ATOM	25856	OE1	GLN	1721	47.509	96.011	115.467	0.00	0.00
ATOM	25857	NE2	GLN	1721	48.516	96.747	117.113	0.00	0.00
ATOM	25858	1HE2	GLN	1721	49.386	96.476	116.678	0.00	0.00
ATOM	25859	2HE2	GLN	1721	48.547	97.185	118.022	0.00	0.00
ATOM	25860	C	GLN	1721	43.190	97.301	117.783	0.00	0.00
ATOM	25861	O	GLN	1721	42.779	97.567	116.639	0.00	0.00
ATOM	25862	N	LYS	1722	43.198	98.233	118.763	0.00	0.00
ATOM	25863	H	LYS	1722	43.382	97.953	119.716	0.00	0.00

ATOM	25864	CA	LYS	1722	43.151	99.698	118.565	0.00	0.00
ATOM	25865	HA	LYS	1722	42.334	99.962	117.893	0.00	0.00
ATOM	25866	CB	LYS	1722	42.777	100.313	119.894	0.00	0.00
ATOM	25867	HB2	LYS	1722	43.379	99.795	120.641	0.00	0.00
ATOM	25868	HB3	LYS	1722	43.011	101.376	119.839	0.00	0.00
ATOM	25869	CG	LYS	1722	41.221	100.113	120.130	0.00	0.00
ATOM	25870	HG2	LYS	1722	40.652	100.649	119.370	0.00	0.00
ATOM	25871	HG3	LYS	1722	41.021	99.045	120.040	0.00	0.00
ATOM	25872	CD	LYS	1722	40.904	100.538	121.547	0.00	0.00
ATOM	25873	HD2	LYS	1722	39.890	100.181	121.727	0.00	0.00
ATOM	25874	HD3	LYS	1722	41.528	100.116	122.335	0.00	0.00
ATOM	25875	CE	LYS	1722	41.058	102.018	121.868	0.00	0.00
ATOM	25876	HE2	LYS	1722	42.142	102.133	121.857	0.00	0.00
ATOM	25877	HE3	LYS	1722	40.641	102.674	121.104	0.00	0.00
ATOM	25878	NZ	LYS	1722	40.493	102.488	123.102	0.00	0.00
ATOM	25879	HZ1	LYS	1722	40.451	103.489	123.232	0.00	0.00
ATOM	25880	HZ2	LYS	1722	39.527	102.194	123.145	0.00	0.00
ATOM	25881	HZ3	LYS	1722	40.891	102.092	123.941	0.00	0.00
ATOM	25882	C	LYS	1722	44.520	100.216	118.054	0.00	0.00
ATOM	25883	O	LYS	1722	45.568	99.851	118.568	0.00	0.00
ATOM	25884	N	ARG	1723	44.408	101.264	117.198	0.00	0.00
ATOM	25885	H	ARG	1723	43.519	101.549	116.814	0.00	0.00
ATOM	25886	CA	ARG	1723	45.510	102.081	116.763	0.00	0.00
ATOM	25887	HA	ARG	1723	46.357	102.093	117.449	0.00	0.00
ATOM	25888	CB	ARG	1723	46.127	101.543	115.478	0.00	0.00
ATOM	25889	HB2	ARG	1723	45.269	101.209	114.895	0.00	0.00

ATOM	25890	HB3	ARG	1723	46.802	102.226	114.963	0.00	0.00
ATOM	25891	CG	ARG	1723	47.068	100.407	115.711	0.00	0.00
ATOM	25892	HG2	ARG	1723	47.900	100.673	116.363	0.00	0.00
ATOM	25893	HG3	ARG	1723	46.581	99.571	116.213	0.00	0.00
ATOM	25894	CD	ARG	1723	47.570	99.945	114.337	0.00	0.00
ATOM	25895	HD2	ARG	1723	46.653	99.644	113.830	0.00	0.00
ATOM	25896	HD3	ARG	1723	47.912	100.778	113.724	0.00	0.00
ATOM	25897	NE	ARG	1723	48.463	98.825	114.475	0.00	0.00
ATOM	25898	HE	ARG	1723	48.169	97.968	114.029	0.00	0.00
ATOM	25899	CZ	ARG	1723	49.707	98.763	114.909	0.00	0.00
ATOM	25900	NH1	ARG	1723	50.355	97.669	114.770	0.00	0.00
ATOM	25901	1HH1	ARG	1723	51.242	97.554	115.238	0.00	0.00
ATOM	25902	2HH1	ARG	1723	49.954	96.821	114.397	0.00	0.00
ATOM	25903	NH2	ARG	1723	50.403	99.730	115.456	0.00	0.00
ATOM	25904	1HH2	ARG	1723	51.392	99.532	115.402	0.00	0.00
ATOM	25905	2HH2	ARG	1723	49.983	100.628	115.646	0.00	0.00
ATOM	25906	C	ARG	1723	45.214	103.562	116.641	0.00	0.00
ATOM	25907	O	ARG	1723	44.045	103.943	116.392	0.00	0.00
ATOM	25908	N	GLU	1724	46.257	104.386	116.715	0.00	0.00
ATOM	25909	H	GLU	1724	47.141	104.048	117.068	0.00	0.00
ATOM	25910	CA	GLU	1724	46.333	105.672	115.955	0.00	0.00
ATOM	25911	HA	GLU	1724	45.353	105.878	115.524	0.00	0.00
ATOM	25912	CB	GLU	1724	46.650	106.888	116.853	0.00	0.00
ATOM	25913	HB2	GLU	1724	45.987	106.751	117.707	0.00	0.00
ATOM	25914	HB3	GLU	1724	47.685	106.758	117.168	0.00	0.00
ATOM	25915	CG	GLU	1724	46.325	108.220	116.107	0.00	0.00



ATOM	25916	HG2	GLU	1724	46.895	108.425	115.200	0.00	0.00
ATOM	25917	HG3	GLU	1724	45.292	108.122	115.775	0.00	0.00
ATOM	25918	CD	GLU	1724	46.291	109.392	117.005	0.00	0.00
ATOM	25919	OE1	GLU	1724	47.392	109.893	117.355	0.00	0.00
ATOM	25920	OE2	GLU	1724	45.197	109.799	117.391	0.00	0.00
ATOM	25921	C	GLU	1724	47.330	105.509	114.812	0.00	0.00
ATOM	25922	O	GLU	1724	48.385	104.926	114.969	0.00	0.00
ATOM	25923	N	VAL	1725	46.885	105.915	113.612	0.00	0.00
ATOM	25924	H	VAL	1725	45.886	106.016	113.498	0.00	0.00
ATOM	25925	CA	VAL	1725	47.767	105.959	112.394	0.00	0.00
ATOM	25926	HA	VAL	1725	48.771	105.709	112.735	0.00	0.00
ATOM	25927	CB	VAL	1725	47.248	104.911	111.369	0.00	0.00
ATOM	25928	HB	VAL	1725	46.329	105.262	110.899	0.00	0.00
ATOM	25929	CG1	VAL	1725	48.219	104.744	110.154	0.00	0.00
ATOM	25930	1HG1	VAL	1725	47.791	104.003	109.479	0.00	0.00
ATOM	25931	2HG1	VAL	1725	48.315	105.703	109.643	0.00	0.00
ATOM	25932	3HG1	VAL	1725	49.166	104.336	110.508	0.00	0.00
ATOM	25933	CG2	VAL	1725	46.945	103.545	111.887	0.00	0.00
ATOM	25934	1HG2	VAL	1725	45.969	103.430	112.357	0.00	0.00
ATOM	25935	2HG2	VAL	1725	46.956	102.906	111.003	0.00	0.00
ATOM	25936	3HG2	VAL	1725	47.699	103.205	112.598	0.00	0.00
ATOM	25937	C	VAL	1725	47.803	107.394	111.746	0.00	0.00
ATOM	25938	O	VAL	1725	46.844	108.172	111.817	0.00	0.00
ATOM	25939	N	GLU	1726	48.951	107.831	111.262	0.00	0.00
ATOM	25940	H	GLU	1726	49.793	107.274	111.308	0.00	0.00
ATOM	25941	CA	GLU	1726	49.185	109.097	110.655	0.00	0.00

ATOM	25942	HA	GLU	1726	48.408	109.801	110.950	0.00	0.00
ATOM	25943	CB	GLU	1726	50.487	109.777	111.152	0.00	0.00
ATOM	25944	HB2	GLU	1726	50.354	109.923	112.224	0.00	0.00
ATOM	25945	HB3	GLU	1726	51.357	109.120	111.170	0.00	0.00
ATOM	25946	CG	GLU	1726	50.934	111.134	110.493	0.00	0.00
ATOM	25947	HG2	GLU	1726	51.006	110.893	109.432	0.00	0.00
ATOM	25948	HG3	GLU	1726	50.178	111.895	110.686	0.00	0.00
ATOM	25949	CD	GLU	1726	52.245	111.675	111.161	0.00	0.00
ATOM	25950	OE1	GLU	1726	52.165	111.973	112.398	0.00	0.00
ATOM	25951	OE2	GLU	1726	53.279	111.904	110.455	0.00	0.00
ATOM	25952	C	GLU	1726	49.131	108.922	109.072	0.00	0.00
ATOM	25953	O	GLU	1726	49.517	107.888	108.572	0.00	0.00
ATOM	25954	N	LEU	1727	48.618	109.871	108.340	0.00	0.00
ATOM	25955	H	LEU	1727	48.303	110.762	108.695	0.00	0.00
ATOM	25956	CA	LEU	1727	48.320	109.766	106.844	0.00	0.00
ATOM	25957	HA	LEU	1727	48.662	108.883	106.304	0.00	0.00
ATOM	25958	CB	LEU	1727	46.805	109.844	106.666	0.00	0.00
ATOM	25959	HB2	LEU	1727	46.440	110.805	107.028	0.00	0.00
ATOM	25960	HB3	LEU	1727	46.660	109.809	105.586	0.00	0.00
ATOM	25961	CG	LEU	1727	46.021	108.692	107.364	0.00	0.00
ATOM	25962	HG	LEU	1727	46.204	108.873	108.423	0.00	0.00
ATOM	25963	CD1	LEU	1727	44.553	108.840	107.168	0.00	0.00
ATOM	25964	1HD1	LEU	1727	44.018	108.150	107.820	0.00	0.00
ATOM	25965	2HD1	LEU	1727	44.228	109.840	107.456	0.00	0.00
ATOM	25966	3HD1	LEU	1727	44.324	108.743	106.107	0.00	0.00
ATOM	25967	CD2	LEU	1727	46.418	107.276	106.961	0.00	0.00

ATOM	25968	1HD2	LEU	1727	47.461	107.148	107.251	0.00	0.00
ATOM	25969	2HD2	LEU	1727	45.703	106.594	107.420	0.00	0.00
ATOM	25970	3HD2	LEU	1727	46.340	107.109	105.886	0.00	0.00
ATOM	25971	C	LEU	1727	48.862	110.994	106.086	0.00	0.00
ATOM	25972	O	LEU	1727	48.909	112.103	106.594	0.00	0.00
ATOM	25973	N	VAL	1728	49.203	110.889	104.792	0.00	0.00
ATOM	25974	H	VAL	1728	48.986	110.035	104.299	0.00	0.00
ATOM	25975	CA	VAL	1728	49.709	111.934	103.843	0.00	0.00
ATOM	25976	HA	VAL	1728	49.544	112.942	104.224	0.00	0.00
ATOM	25977	CB	VAL	1728	51.272	111.824	103.607	0.00	0.00
ATOM	25978	HB	VAL	1728	51.677	111.878	104.618	0.00	0.00
ATOM	25979	CG1	VAL	1728	51.663	110.510	103.075	0.00	0.00
ATOM	25980	1HG1	VAL	1728	51.344	109.735	103.772	0.00	0.00
ATOM	25981	2HG1	VAL	1728	51.282	110.402	102.059	0.00	0.00
ATOM	25982	3HG1	VAL	1728	52.752	110.486	103.119	0.00	0.00
ATOM	25983	CG2	VAL	1728	51.748	112.960	102.654	0.00	0.00
ATOM	25984	1HG2	VAL	1728	52.807	112.841	102.427	0.00	0.00
ATOM	25985	2HG2	VAL	1728	51.167	113.028	101.734	0.00	0.00
ATOM	25986	3HG2	VAL	1728	51.571	113.845	103.265	0.00	0.00
ATOM	25987	C	VAL	1728	48.940	111.842	102.503	0.00	0.00
ATOM	25988	O	VAL	1728	48.694	110.796	101.920	0.00	0.00
ATOM	25989	N	ALA	1729	48.591	112.973	101.915	0.00	0.00
ATOM	25990	H	ALA	1729	48.679	113.770	102.530	0.00	0.00
ATOM	25991	CA	ALA	1729	47.888	113.154	100.618	0.00	0.00
ATOM	25992	HA	ALA	1729	47.141	112.361	100.642	0.00	0.00
ATOM	25993	CB	ALA	1729	47.264	114.534	100.613	0.00	0.00

ATOM	25994	HB1	ALA	1729	48.015	115.285	100.858	0.00	0.00
ATOM	25995	HB2	ALA	1729	46.716	114.701	99.686	0.00	0.00
ATOM	25996	HB3	ALA	1729	46.496	114.480	101.383	0.00	0.00
ATOM	25997	C	ALA	1729	48.717	112.906	99.397	0.00	0.00
ATOM	25998	O	ALA	1729	49.916	112.970	99.364	0.00	0.00
ATOM	25999	N	PHE	1730	48.005	112.718	98.305	0.00	0.00
ATOM	26000	H	PHE	1730	47.012	112.557	98.397	0.00	0.00
ATOM	26001	CA	PHE	1730	48.534	112.562	96.908	0.00	0.00
ATOM	26002	HA	PHE	1730	49.495	112.058	97.013	0.00	0.00
ATOM	26003	CB	PHE	1730	47.489	111.645	96.299	0.00	0.00
ATOM	26004	HB2	PHE	1730	46.487	112.040	96.468	0.00	0.00
ATOM	26005	HB3	PHE	1730	47.687	111.778	95.235	0.00	0.00
ATOM	26006	CG	PHE	1730	47.588	110.152	96.579	0.00	0.00
ATOM	26007	CD1	PHE	1730	48.716	109.431	96.264	0.00	0.00
ATOM	26008	HD1	PHE	1730	49.532	109.908	95.742	0.00	0.00
ATOM	26009	CE1	PHE	1730	48.748	108.029	96.423	0.00	0.00
ATOM	26010	HE1	PHE	1730	49.648	107.531	96.092	0.00	0.00
ATOM	26011	CZ	PHE	1730	47.593	107.354	96.914	0.00	0.00
ATOM	26012	HZ	PHE	1730	47.564	106.283	97.048	0.00	0.00
ATOM	26013	CE2	PHE	1730	46.531	108.094	97.380	0.00	0.00
ATOM	26014	HE2	PHE	1730	45.677	107.484	97.637	0.00	0.00
ATOM	26015	CD2	PHE	1730	46.565	109.464	97.209	0.00	0.00
ATOM	26016	HD2	PHE	1730	45.679	110.017	97.484	0.00	0.00
ATOM	26017	C	PHE	1730	48.629	113.840	96.200	0.00	0.00
ATOM	26018	O	PHE	1730	48.126	114.838	96.623	0.00	0.00
ATOM	26019	N	ALA	1731	49.202	113.753	95.005	0.00	0.00

ATOM	26020	H	ALA	1731	49.376	112.825	94.647	0.00	0.00
ATOM	26021	CA	ALA	1731	49.584	114.893	94.146	0.00	0.00
ATOM	26022	HA	ALA	1731	49.988	115.551	94.915	0.00	0.00
ATOM	26023	CB	ALA	1731	50.682	114.475	93.167	0.00	0.00
ATOM	26024	HB1	ALA	1731	50.357	113.490	92.831	0.00	0.00
ATOM	26025	HB2	ALA	1731	50.883	115.213	92.390	0.00	0.00
ATOM	26026	HB3	ALA	1731	51.616	114.314	93.705	0.00	0.00
ATOM	26027	C	ALA	1731	48.459	115.599	93.406	0.00	0.00
ATOM	26028	O	ALA	1731	47.603	114.969	92.836	0.00	0.00
ATOM	26029	N	GLY	1732	48.453	116.934	93.338	0.00	0.00
ATOM	26030	H	GLY	1732	49.225	117.393	93.800	0.00	0.00
ATOM	26031	CA	GLY	1732	47.462	117.728	92.610	0.00	0.00
ATOM	26032	HA2	GLY	1732	47.648	118.759	92.910	0.00	0.00
ATOM	26033	HA3	GLY	1732	47.433	117.725	91.520	0.00	0.00
ATOM	26034	C	GLY	1732	45.954	117.398	92.991	0.00	0.00
ATOM	26035	O	GLY	1732	45.509	117.771	94.091	0.00	0.00
ATOM	26036	N	HIE	1733	45.190	116.820	92.109	0.00	0.00
ATOM	26037	H	HIE	1733	45.618	116.682	91.204	0.00	0.00
ATOM	26038	CA	HIE	1733	43.774	116.448	92.275	0.00	0.00
ATOM	26039	HA	HIE	1733	43.238	117.352	92.565	0.00	0.00
ATOM	26040	CB	HIE	1733	43.283	115.904	90.898	0.00	0.00
ATOM	26041	HB2	HIE	1733	42.285	115.466	90.860	0.00	0.00
ATOM	26042	HB3	HIE	1733	43.264	116.670	90.122	0.00	0.00
ATOM	26043	CG	HIE	1733	44.068	114.745	90.325	0.00	0.00
ATOM	26044	ND1	HIE	1733	44.196	113.435	90.867	0.00	0.00
ATOM	26045	CE1	HIE	1733	44.957	112.804	90.048	0.00	0.00

ATOM	26046	HE1	HIE	1733	45.454	111.853	90.173	0.00	0.00
ATOM	26047	NE2	HIE	1733	45.229	113.511	88.957	0.00	0.00
ATOM	26048	HE2	HIE	1733	45.888	113.272	88.229	0.00	0.00
ATOM	26049	CD2	HIE	1733	44.630	114.710	89.074	0.00	0.00
ATOM	26050	HD2	HIE	1733	44.684	115.532	88.376	0.00	0.00
ATOM	26051	C	HIE	1733	43.486	115.440	93.403	0.00	0.00
ATOM	26052	O	HIE	1733	42.301	115.292	93.745	0.00	0.00
ATOM	26053	N	ARG	1734	44.546	114.780	93.968	0.00	0.00
ATOM	26054	H	ARG	1734	45.494	115.038	93.734	0.00	0.00
ATOM	26055	CA	ARG	1734	44.430	113.760	95.059	0.00	0.00
ATOM	26056	HA	ARG	1734	45.396	113.312	95.289	0.00	0.00
ATOM	26057	CB	ARG	1734	43.742	114.187	96.331	0.00	0.00
ATOM	26058	HB2	ARG	1734	42.685	114.396	96.166	0.00	0.00
ATOM	26059	HB3	ARG	1734	43.817	113.504	97.176	0.00	0.00
ATOM	26060	CG	ARG	1734	44.575	115.426	96.814	0.00	0.00
ATOM	26061	HG2	ARG	1734	45.641	115.215	96.892	0.00	0.00
ATOM	26062	HG3	ARG	1734	44.404	116.372	96.299	0.00	0.00
ATOM	26063	CD	ARG	1734	44.100	115.777	98.246	0.00	0.00
ATOM	26064	HD2	ARG	1734	43.043	116.005	98.101	0.00	0.00
ATOM	26065	HD3	ARG	1734	44.349	115.009	98.978	0.00	0.00
ATOM	26066	NE	ARG	1734	44.741	116.993	98.800	0.00	0.00
ATOM	26067	HE	ARG	1734	45.211	117.578	98.123	0.00	0.00
ATOM	26068	CZ	ARG	1734	44.600	117.430	100.005	0.00	0.00
ATOM	26069	NH1	ARG	1734	43.898	116.837	100.873	0.00	0.00
ATOM	26070	1HH1	ARG	1734	43.493	117.383	101.620	0.00	0.00
ATOM	26071	2HH1	ARG	1734	43.402	115.992	100.629	0.00	0.00

ATOM	26072	NH2	ARG	1734	45.166	118.502	100.461	0.00	0.00
ATOM	26073	1HH2	ARG	1734	44.923	118.908	101.353	0.00	0.00
ATOM	26074	2HH2	ARG	1734	45.676	119.111	99.838	0.00	0.00
ATOM	26075	C	ARG	1734	43.683	112.509	94.541	0.00	0.00
ATOM	26076	O	ARG	1734	43.447	111.659	95.342	0.00	0.00
ATOM	26077	N	ALA	1735	43.205	112.472	93.358	0.00	0.00
ATOM	26078	H	ALA	1735	43.473	113.222	92.738	0.00	0.00
ATOM	26079	CA	ALA	1735	42.223	111.540	92.913	0.00	0.00
ATOM	26080	HA	ALA	1735	41.424	111.305	93.616	0.00	0.00
ATOM	26081	CB	ALA	1735	41.425	112.136	91.784	0.00	0.00
ATOM	26082	HB1	ALA	1735	40.456	111.656	91.648	0.00	0.00
ATOM	26083	HB2	ALA	1735	41.230	113.185	92.009	0.00	0.00
ATOM	26084	HB3	ALA	1735	41.906	112.155	90.806	0.00	0.00
ATOM	26085	C	ALA	1735	42.807	110.179	92.630	0.00	0.00
ATOM	26086	O	ALA	1735	43.786	110.188	91.853	0.00	0.00
ATOM	26087	N	VAL	1736	42.087	109.031	92.886	0.00	0.00
ATOM	26088	H	VAL	1736	41.194	109.086	93.356	0.00	0.00
ATOM	26089	CA	VAL	1736	42.528	107.668	92.547	0.00	0.00
ATOM	26090	HA	VAL	1736	43.403	107.772	91.906	0.00	0.00
ATOM	26091	CB	VAL	1736	42.936	106.836	93.793	0.00	0.00
ATOM	26092	HB	VAL	1736	43.163	105.842	93.407	0.00	0.00
ATOM	26093	CG1	VAL	1736	44.261	107.368	94.374	0.00	0.00
ATOM	26094	1HG1	VAL	1736	44.618	106.630	95.094	0.00	0.00
ATOM	26095	2HG1	VAL	1736	44.910	107.455	93.503	0.00	0.00
ATOM	26096	3HG1	VAL	1736	44.014	108.306	94.872	0.00	0.00
ATOM	26097	CG2	VAL	1736	41.865	106.636	94.837	0.00	0.00

ATOM	26098	1HG2	VAL	1736	41.709	107.523	95.450	0.00	0.00
ATOM	26099	2HG2	VAL	1736	40.958	106.369	94.293	0.00	0.00
ATOM	26100	3HG2	VAL	1736	42.257	105.858	95.493	0.00	0.00
ATOM	26101	C	VAL	1736	41.488	106.880	91.660	0.00	0.00
ATOM	26102	O	VAL	1736	40.249	107.012	91.783	0.00	0.00
ATOM	26103	N	PHE	1737	42.035	105.803	91.001	0.00	0.00
ATOM	26104	H	PHE	1737	43.039	105.693	90.999	0.00	0.00
ATOM	26105	CA	PHE	1737	41.240	104.645	90.646	0.00	0.00
ATOM	26106	HA	PHE	1737	40.420	104.564	91.360	0.00	0.00
ATOM	26107	CB	PHE	1737	40.475	104.721	89.329	0.00	0.00
ATOM	26108	HB2	PHE	1737	39.963	105.681	89.273	0.00	0.00
ATOM	26109	HB3	PHE	1737	41.198	104.606	88.522	0.00	0.00
ATOM	26110	CG	PHE	1737	39.395	103.684	89.185	0.00	0.00
ATOM	26111	CD1	PHE	1737	38.293	103.809	90.036	0.00	0.00
ATOM	26112	HD1	PHE	1737	38.231	104.615	90.751	0.00	0.00
ATOM	26113	CE1	PHE	1737	37.213	102.901	90.012	0.00	0.00
ATOM	26114	HE1	PHE	1737	36.312	103.108	90.571	0.00	0.00
ATOM	26115	CZ	PHE	1737	37.178	101.924	89.014	0.00	0.00
ATOM	26116	HZ	PHE	1737	36.345	101.248	88.898	0.00	0.00
ATOM	26117	CE2	PHE	1737	38.355	101.729	88.199	0.00	0.00
ATOM	26118	HE2	PHE	1737	38.310	100.962	87.439	0.00	0.00
ATOM	26119	CD2	PHE	1737	39.473	102.575	88.350	0.00	0.00
ATOM	26120	HD2	PHE	1737	40.356	102.410	87.751	0.00	0.00
ATOM	26121	C	PHE	1737	42.124	103.429	90.919	0.00	0.00
ATOM	26122	O	PHE	1737	43.340	103.558	91.181	0.00	0.00
ATOM	26123	N	GLY	1738	41.560	102.206	90.907	0.00	0.00



ATOM	26124	H	GLY	1738	40.552	102.256	90.918	0.00	0.00
ATOM	26125	CA	GLY	1738	42.191	101.109	91.640	0.00	0.00
ATOM	26126	HA2	GLY	1738	41.907	100.193	91.123	0.00	0.00
ATOM	26127	HA3	GLY	1738	43.278	101.089	91.721	0.00	0.00
ATOM	26128	C	GLY	1738	41.462	101.094	93.059	0.00	0.00
ATOM	26129	O	GLY	1738	40.401	101.673	93.344	0.00	0.00
ATOM	26130	N	PHE	1739	42.088	100.353	93.922	0.00	0.00
ATOM	26131	H	PHE	1739	42.897	99.808	93.659	0.00	0.00
ATOM	26132	CA	PHE	1739	41.433	100.010	95.269	0.00	0.00
ATOM	26133	HA	PHE	1739	42.072	99.247	95.714	0.00	0.00
ATOM	26134	CB	PHE	1739	41.419	101.266	96.198	0.00	0.00
ATOM	26135	HB2	PHE	1739	40.703	102.016	95.861	0.00	0.00
ATOM	26136	HB3	PHE	1739	41.168	101.025	97.231	0.00	0.00
ATOM	26137	CG	PHE	1739	42.876	101.957	96.151	0.00	0.00
ATOM	26138	CD1	PHE	1739	43.104	103.110	95.421	0.00	0.00
ATOM	26139	HD1	PHE	1739	42.275	103.528	94.870	0.00	0.00
ATOM	26140	CE1	PHE	1739	44.365	103.646	95.315	0.00	0.00
ATOM	26141	HE1	PHE	1739	44.631	104.496	94.705	0.00	0.00
ATOM	26142	CZ	PHE	1739	45.406	103.039	95.990	0.00	0.00
ATOM	26143	HZ	PHE	1739	46.372	103.521	96.028	0.00	0.00
ATOM	26144	CE2	PHE	1739	45.234	101.804	96.618	0.00	0.00
ATOM	26145	HE2	PHE	1739	46.027	101.163	96.975	0.00	0.00
ATOM	26146	CD2	PHE	1739	43.967	101.300	96.772	0.00	0.00
ATOM	26147	HD2	PHE	1739	43.769	100.385	97.310	0.00	0.00
ATOM	26148	C	PHE	1739	40.109	99.256	95.222	0.00	0.00
ATOM	26149	O	PHE	1739	39.993	98.265	94.540	0.00	0.00

ATOM	26150	N	ARG	1740	39.070	99.632	96.004	0.00	0.00
ATOM	26151	H	ARG	1740	39.128	100.518	96.483	0.00	0.00
ATOM	26152	CA	ARG	1740	37.676	99.041	95.973	0.00	0.00
ATOM	26153	HA	ARG	1740	37.689	97.962	95.817	0.00	0.00
ATOM	26154	CB	ARG	1740	36.902	99.301	97.300	0.00	0.00
ATOM	26155	HB2	ARG	1740	36.928	100.354	97.581	0.00	0.00
ATOM	26156	HB3	ARG	1740	35.916	98.851	97.193	0.00	0.00
ATOM	26157	CG	ARG	1740	37.575	98.521	98.516	0.00	0.00
ATOM	26158	HG2	ARG	1740	37.711	97.485	98.206	0.00	0.00
ATOM	26159	HG3	ARG	1740	38.541	98.980	98.728	0.00	0.00
ATOM	26160	CD	ARG	1740	36.791	98.534	99.825	0.00	0.00
ATOM	26161	HD2	ARG	1740	37.385	97.938	100.518	0.00	0.00
ATOM	26162	HD3	ARG	1740	36.578	99.555	100.144	0.00	0.00
ATOM	26163	NE	ARG	1740	35.453	97.905	99.735	0.00	0.00
ATOM	26164	HE	ARG	1740	34.685	98.524	99.522	0.00	0.00
ATOM	26165	CZ	ARG	1740	35.177	96.665	99.658	0.00	0.00
ATOM	26166	NH1	ARG	1740	33.927	96.267	99.610	0.00	0.00
ATOM	26167	1HH1	ARG	1740	33.838	95.279	99.420	0.00	0.00
ATOM	26168	2HH1	ARG	1740	33.189	96.937	99.773	0.00	0.00
ATOM	26169	NH2	ARG	1740	36.145	95.805	99.650	0.00	0.00
ATOM	26170	1HH2	ARG	1740	35.997	94.805	99.648	0.00	0.00
ATOM	26171	2HH2	ARG	1740	37.083	96.112	99.861	0.00	0.00
ATOM	26172	C	ARG	1740	36.818	99.630	94.764	0.00	0.00
ATOM	26173	O	ARG	1740	35.837	99.054	94.364	0.00	0.00
ATOM	26174	N	GLY	1741	37.289	100.736	94.181	0.00	0.00
ATOM	26175	H	GLY	1741	38.027	101.133	94.743	0.00	0.00

ATOM	26176	CA	GLY	1741	36.787	101.549	93.117	0.00	0.00
ATOM	26177	HA2	GLY	1741	37.550	102.233	92.745	0.00	0.00
ATOM	26178	HA3	GLY	1741	36.550	100.867	92.301	0.00	0.00
ATOM	26179	C	GLY	1741	35.595	102.275	93.630	0.00	0.00
ATOM	26180	O	GLY	1741	34.678	102.636	92.891	0.00	0.00
ATOM	26181	N	GLU	1742	35.663	102.669	94.900	0.00	0.00
ATOM	26182	H	GLU	1742	36.510	102.423	95.393	0.00	0.00
ATOM	26183	CA	GLU	1742	34.386	103.032	95.582	0.00	0.00
ATOM	26184	HA	GLU	1742	33.554	102.917	94.888	0.00	0.00
ATOM	26185	CB	GLU	1742	34.096	101.941	96.658	0.00	0.00
ATOM	26186	HB2	GLU	1742	34.201	100.966	96.183	0.00	0.00
ATOM	26187	HB3	GLU	1742	34.892	101.944	97.403	0.00	0.00
ATOM	26188	CG	GLU	1742	32.702	102.088	97.279	0.00	0.00
ATOM	26189	HG2	GLU	1742	32.611	103.136	97.565	0.00	0.00
ATOM	26190	HG3	GLU	1742	32.125	101.800	96.400	0.00	0.00
ATOM	26191	CD	GLU	1742	32.604	101.170	98.451	0.00	0.00
ATOM	26192	OE1	GLU	1742	32.313	99.934	98.327	0.00	0.00
ATOM	26193	OE2	GLU	1742	32.554	101.666	99.626	0.00	0.00
ATOM	26194	C	GLU	1742	34.348	104.507	96.013	0.00	0.00
ATOM	26195	O	GLU	1742	33.367	105.215	95.914	0.00	0.00
ATOM	26196	N	VAL	1743	35.490	104.939	96.552	0.00	0.00
ATOM	26197	H	VAL	1743	36.288	104.326	96.467	0.00	0.00
ATOM	26198	CA	VAL	1743	35.832	106.280	97.117	0.00	0.00
ATOM	26199	HA	VAL	1743	34.872	106.658	97.468	0.00	0.00
ATOM	26200	CB	VAL	1743	36.529	106.180	98.494	0.00	0.00
ATOM	26201	HB	VAL	1743	37.571	105.923	98.301	0.00	0.00

ATOM	26202	CG1 VAL	1743	36.387	107.620	99.092	0.00	0.00
ATOM	26203	1HG1 VAL	1743	36.631	107.616	100.154	0.00	0.00
ATOM	26204	2HG1 VAL	1743	36.932	108.340	98.481	0.00	0.00
ATOM	26205	3HG1 VAL	1743	35.317	107.822	99.036	0.00	0.00
ATOM	26206	CG2 VAL	1743	35.908	105.154	99.507	0.00	0.00
ATOM	26207	1HG2 VAL	1743	34.879	105.504	99.585	0.00	0.00
ATOM	26208	2HG2 VAL	1743	35.820	104.155	99.080	0.00	0.00
ATOM	26209	3HG2 VAL	1743	36.481	105.178	100.434	0.00	0.00
ATOM	26210	C VAL	1743	36.455	107.249	96.092	0.00	0.00
ATOM	26211	O VAL	1743	35.980	108.385	95.937	0.00	0.00
ATOM	26212	N MET	1744	37.402	106.641	95.303	0.00	0.00
ATOM	26213	H MET	1744	37.716	105.779	95.725	0.00	0.00
ATOM	26214	CA MET	1744	37.957	107.210	94.101	0.00	0.00
ATOM	26215	HA MET	1744	38.658	106.429	93.807	0.00	0.00
ATOM	26216	CB MET	1744	36.814	107.375	93.090	0.00	0.00
ATOM	26217	HB2 MET	1744	36.221	108.247	93.362	0.00	0.00
ATOM	26218	HB3 MET	1744	37.301	107.461	92.119	0.00	0.00
ATOM	26219	CG MET	1744	35.661	106.345	93.008	0.00	0.00
ATOM	26220	HG2 MET	1744	36.051	105.347	92.806	0.00	0.00
ATOM	26221	HG3 MET	1744	35.140	106.282	93.963	0.00	0.00
ATOM	26222	SD MET	1744	34.556	106.628	91.677	0.00	0.00
ATOM	26223	CE MET	1744	33.804	105.067	91.196	0.00	0.00
ATOM	26224	HE1 MET	1744	33.276	104.830	92.120	0.00	0.00
ATOM	26225	HE2 MET	1744	33.152	105.168	90.328	0.00	0.00
ATOM	26226	HE3 MET	1744	34.489	104.267	90.916	0.00	0.00
ATOM	26227	C MET	1744	38.840	108.510	94.199	0.00	0.00

ATOM	26228	O	MET	1744	39.206	109.158	93.237	0.00	0.00
ATOM	26229	N	GLY	1745	39.120	108.907	95.460	0.00	0.00
ATOM	26230	H	GLY	1745	38.645	108.483	96.245	0.00	0.00
ATOM	26231	CA	GLY	1745	39.795	110.160	95.811	0.00	0.00
ATOM	26232	HA2	GLY	1745	40.828	109.860	95.987	0.00	0.00
ATOM	26233	HA3	GLY	1745	39.701	110.842	94.966	0.00	0.00
ATOM	26234	C	GLY	1745	39.262	110.806	97.106	0.00	0.00
ATOM	26235	O	GLY	1745	38.968	110.124	98.061	0.00	0.00
ATOM	26236	N	PRO	1746	39.008	112.091	97.090	0.00	0.00
ATOM	26237	CD	PRO	1746	39.564	113.104	96.167	0.00	0.00
ATOM	26238	HD2	PRO	1746	40.440	112.695	95.662	0.00	0.00
ATOM	26239	HD3	PRO	1746	38.804	113.361	95.429	0.00	0.00
ATOM	26240	CG	PRO	1746	39.964	114.273	97.060	0.00	0.00
ATOM	26241	HG2	PRO	1746	40.897	114.012	97.560	0.00	0.00
ATOM	26242	HG3	PRO	1746	39.960	115.152	96.416	0.00	0.00
ATOM	26243	CB	PRO	1746	38.694	114.306	97.926	0.00	0.00
ATOM	26244	HB2	PRO	1746	38.910	114.644	98.940	0.00	0.00
ATOM	26245	HB3	PRO	1746	37.938	114.877	97.388	0.00	0.00
ATOM	26246	CA	PRO	1746	38.268	112.840	98.123	0.00	0.00
ATOM	26247	HA	PRO	1746	38.602	112.485	99.098	0.00	0.00
ATOM	26248	C	PRO	1746	36.756	112.644	98.156	0.00	0.00
ATOM	26249	O	PRO	1746	36.224	112.397	97.078	0.00	0.00
ATOM	26250	N	LEC	1747	36.130	112.790	99.322	0.00	0.00
ATOM	26251	H	LEC	1747	36.644	112.873	100.188	0.00	0.00
ATOM	26252	CA	LEC	1747	34.680	112.525	99.643	0.00	0.00
ATOM	26253	HA	LEC	1747	34.248	112.628	98.647	0.00	0.00

ATOM	26254	CB	LEC	1747	34.518	111.105	100.105	0.00	0.00
ATOM	26255	HB2	LEC	1747	35.240	110.440	99.631	0.00	0.00
ATOM	26256	HB3	LEC	1747	34.972	111.084	101.096	0.00	0.00
ATOM	26257	CG	LEC	1747	33.075	110.552	100.108	0.00	0.00
ATOM	26258	HG	LEC	1747	32.372	111.244	100.573	0.00	0.00
ATOM	26259	CD1	LEC	1747	32.560	110.031	98.753	0.00	0.00
ATOM	26260	1HD1	LEC	1747	31.667	109.415	98.863	0.00	0.00
ATOM	26261	2HD1	LEC	1747	32.415	110.914	98.131	0.00	0.00
ATOM	26262	3HD1	LEC	1747	33.283	109.375	98.269	0.00	0.00
ATOM	26263	CD2	LEC	1747	33.111	109.301	101.084	0.00	0.00
ATOM	26264	1HD2	LEC	1747	33.769	108.550	100.647	0.00	0.00
ATOM	26265	2HD2	LEC	1747	33.337	109.679	102.080	0.00	0.00
ATOM	26266	3HD2	LEC	1747	32.057	109.026	101.122	0.00	0.00
ATOM	26267	C	LEC	1747	34.026	113.557	100.554	0.00	0.00
ATOM	26268	O	LEC	1747	32.983	114.078	100.269	0.00	0.00
ATOM	26269	OXT	LEC	1747	34.735	113.992	101.546	0.00	0.00
ATOM	26270	N	SEN	1748	57.527	111.275	108.461	0.00	0.00
ATOM	26271	H1	SEN	1748	57.702	112.210	108.801	0.00	0.00
ATOM	26272	H2	SEN	1748	56.610	110.905	108.670	0.00	0.00
ATOM	26273	H3	SEN	1748	57.673	111.217	107.464	0.00	0.00
ATOM	26274	CA	SEN	1748	58.379	110.328	109.227	0.00	0.00
ATOM	26275	HA	SEN	1748	58.159	110.476	110.284	0.00	0.00
ATOM	26276	CB	SEN	1748	58.319	108.896	108.728	0.00	0.00
ATOM	26277	HB2	SEN	1748	58.613	108.741	107.689	0.00	0.00
ATOM	26278	HB3	SEN	1748	59.011	108.344	109.363	0.00	0.00
ATOM	26279	OG	SEN	1748	57.051	108.441	108.872	0.00	0.00

ATOM	26280	HG	SEN	1748	57.117	107.618	109.362	0.00	0.00
ATOM	26281	C	SEN	1748	59.835	110.637	109.121	0.00	0.00
ATOM	26282	O	SEN	1748	60.205	111.194	108.103	0.00	0.00
ATOM	26283	N	ASN	1749	60.627	110.237	110.136	0.00	0.00
ATOM	26284	H	ASN	1749	60.206	109.718	110.893	0.00	0.00
ATOM	26285	CA	ASN	1749	62.036	110.167	110.198	0.00	0.00
ATOM	26286	HA	ASN	1749	62.506	110.865	109.505	0.00	0.00
ATOM	26287	CB	ASN	1749	62.529	110.714	111.572	0.00	0.00
ATOM	26288	HB2	ASN	1749	61.897	111.554	111.863	0.00	0.00
ATOM	26289	HB3	ASN	1749	62.384	109.951	112.337	0.00	0.00
ATOM	26290	CG	ASN	1749	63.954	111.257	111.627	0.00	0.00
ATOM	26291	OD1	ASN	1749	64.613	111.546	110.636	0.00	0.00
ATOM	26292	ND2	ASN	1749	64.600	111.280	112.741	0.00	0.00
ATOM	26293	1HD2	ASN	1749	65.564	111.578	112.717	0.00	0.00
ATOM	26294	2HD2	ASN	1749	64.144	111.254	113.642	0.00	0.00
ATOM	26295	C	ASN	1749	62.599	108.704	109.949	0.00	0.00
ATOM	26296	O	ASN	1749	61.834	107.715	110.251	0.00	0.00
ATOM	26297	N	ILE	1750	63.898	108.610	109.481	0.00	0.00
ATOM	26298	H	ILE	1750	64.403	109.475	109.353	0.00	0.00
ATOM	26299	CA	ILE	1750	64.623	107.360	109.241	0.00	0.00
ATOM	26300	HA	ILE	1750	64.326	106.766	110.106	0.00	0.00
ATOM	26301	CB	ILE	1750	64.168	106.790	107.917	0.00	0.00
ATOM	26302	HB	ILE	1750	63.115	106.594	108.121	0.00	0.00
ATOM	26303	CG2	ILE	1750	64.317	107.605	106.651	0.00	0.00
ATOM	26304	1HG2	ILE	1750	63.710	107.160	105.862	0.00	0.00
ATOM	26305	2HG2	ILE	1750	63.935	108.621	106.745	0.00	0.00

ATOM	26306	3HG2	ILE	1750	65.331	107.715	106.266	0.00	0.00
ATOM	26307	CG1	ILE	1750	64.802	105.383	107.802	0.00	0.00
ATOM	26308	2HG1	ILE	1750	65.888	105.444	107.863	0.00	0.00
ATOM	26309	3HG1	ILE	1750	64.345	104.733	108.548	0.00	0.00
ATOM	26310	CD1	ILE	1750	64.564	104.650	106.468	0.00	0.00
ATOM	26311	1HD1	ILE	1750	63.523	104.885	106.247	0.00	0.00
ATOM	26312	2HD1	ILE	1750	65.258	104.948	105.682	0.00	0.00
ATOM	26313	3HD1	ILE	1750	64.647	103.585	106.687	0.00	0.00
ATOM	26314	C	ILE	1750	66.131	107.595	109.437	0.00	0.00
ATOM	26315	O	ILE	1750	66.646	108.607	108.895	0.00	0.00
ATOM	26316	N	SER	1751	66.889	106.772	110.187	0.00	0.00
ATOM	26317	H	SER	1751	66.434	105.977	110.612	0.00	0.00
ATOM	26318	CA	SER	1751	68.340	106.913	110.127	0.00	0.00
ATOM	26319	HA	SER	1751	68.446	107.889	110.600	0.00	0.00
ATOM	26320	CB	SER	1751	69.070	105.914	111.092	0.00	0.00
ATOM	26321	HB2	SER	1751	69.819	106.404	111.715	0.00	0.00
ATOM	26322	HB3	SER	1751	68.272	105.621	111.775	0.00	0.00
ATOM	26323	OG	SER	1751	69.755	104.777	110.510	0.00	0.00
ATOM	26324	HG	SER	1751	69.841	104.216	111.285	0.00	0.00
ATOM	26325	C	SER	1751	68.951	106.856	108.736	0.00	0.00
ATOM	26326	O	SER	1751	68.481	106.057	107.947	0.00	0.00
ATOM	26327	N	ARG	1752	70.055	107.524	108.524	0.00	0.00
ATOM	26328	H	ARG	1752	70.421	108.016	109.326	0.00	0.00
ATOM	26329	CA	ARG	1752	70.652	107.680	107.143	0.00	0.00
ATOM	26330	HA	ARG	1752	69.879	107.969	106.432	0.00	0.00
ATOM	26331	CB	ARG	1752	71.607	108.834	107.108	0.00	0.00



ATOM	26332	HB2	ARG	1752	71.174	109.741	107.530	0.00	0.00
ATOM	26333	HB3	ARG	1752	72.407	108.552	107.793	0.00	0.00
ATOM	26334	CG	ARG	1752	72.233	109.198	105.745	0.00	0.00
ATOM	26335	HG2	ARG	1752	71.491	109.034	104.963	0.00	0.00
ATOM	26336	HG3	ARG	1752	72.978	108.434	105.520	0.00	0.00
ATOM	26337	CD	ARG	1752	72.831	110.577	105.763	0.00	0.00
ATOM	26338	HD2	ARG	1752	72.158	111.332	106.168	0.00	0.00
ATOM	26339	HD3	ARG	1752	73.818	110.440	106.206	0.00	0.00
ATOM	26340	NE	ARG	1752	72.931	110.923	104.321	0.00	0.00
ATOM	26341	HE	ARG	1752	72.224	111.535	103.938	0.00	0.00
ATOM	26342	CZ	ARG	1752	73.851	110.526	103.475	0.00	0.00
ATOM	26343	NH1	ARG	1752	74.855	109.827	103.872	0.00	0.00
ATOM	26344	1HH1	ARG	1752	75.522	109.585	103.153	0.00	0.00
ATOM	26345	2HH1	ARG	1752	74.704	109.300	104.720	0.00	0.00
ATOM	26346	NH2	ARG	1752	73.826	110.881	102.215	0.00	0.00
ATOM	26347	1HH2	ARG	1752	74.599	110.583	101.637	0.00	0.00
ATOM	26348	2HH2	ARG	1752	72.961	111.201	101.804	0.00	0.00
ATOM	26349	C	ARG	1752	71.230	106.340	106.741	0.00	0.00
ATOM	26350	O	ARG	1752	71.122	105.885	105.564	0.00	0.00
ATOM	26351	N	GLN	1753	71.790	105.535	107.696	0.00	0.00
ATOM	26352	H	GLN	1753	71.765	105.834	108.660	0.00	0.00
ATOM	26353	CA	GLN	1753	72.368	104.176	107.595	0.00	0.00
ATOM	26354	HA	GLN	1753	73.144	104.162	106.830	0.00	0.00
ATOM	26355	CB	GLN	1753	73.059	103.728	108.907	0.00	0.00
ATOM	26356	HB2	GLN	1753	72.274	103.579	109.648	0.00	0.00
ATOM	26357	HB3	GLN	1753	73.547	102.784	108.660	0.00	0.00

ATOM	26358	CG	GLN	1753	74.056	104.659	109.434	0.00	0.00
ATOM	26359	HG2	GLN	1753	74.720	104.061	110.057	0.00	0.00
ATOM	26360	HG3	GLN	1753	74.512	105.171	108.586	0.00	0.00
ATOM	26361	CD	GLN	1753	73.378	105.712	110.293	0.00	0.00
ATOM	26362	OE1	GLN	1753	72.898	106.742	109.839	0.00	0.00
ATOM	26363	NE2	GLN	1753	73.477	105.601	111.557	0.00	0.00
ATOM	26364	1HE2	GLN	1753	72.966	106.272	112.114	0.00	0.00
ATOM	26365	2HE2	GLN	1753	74.010	104.886	112.032	0.00	0.00
ATOM	26366	C	GLN	1753	71.298	103.115	107.107	0.00	0.00
ATOM	26367	O	GLN	1753	71.663	102.204	106.333	0.00	0.00
ATOM	26368	N	ALA	1754	70.025	103.338	107.376	0.00	0.00
ATOM	26369	H	ALA	1754	69.775	104.150	107.922	0.00	0.00
ATOM	26370	CA	ALA	1754	68.872	102.515	107.029	0.00	0.00
ATOM	26371	HA	ALA	1754	69.118	101.461	106.902	0.00	0.00
ATOM	26372	CB	ALA	1754	67.857	102.677	108.159	0.00	0.00
ATOM	26373	HB1	ALA	1754	68.276	102.253	109.072	0.00	0.00
ATOM	26374	HB2	ALA	1754	67.642	103.736	108.308	0.00	0.00
ATOM	26375	HB3	ALA	1754	66.890	102.189	108.034	0.00	0.00
ATOM	26376	C	ALA	1754	68.177	102.874	105.703	0.00	0.00
ATOM	26377	O	ALA	1754	67.697	102.021	104.984	0.00	0.00
ATOM	26378	N	TYR	1755	68.277	104.135	105.355	0.00	0.00
ATOM	26379	H	TYR	1755	68.715	104.748	106.028	0.00	0.00
ATOM	26380	CA	TYR	1755	67.885	104.656	104.020	0.00	0.00
ATOM	26381	HA	TYR	1755	66.963	104.133	103.766	0.00	0.00
ATOM	26382	CB	TYR	1755	67.721	106.143	104.230	0.00	0.00
ATOM	26383	HB2	TYR	1755	66.992	106.256	105.032	0.00	0.00

ATOM	26384	HB3	TYR	1755	68.747	106.461	104.412	0.00	0.00
ATOM	26385	CG	TYR	1755	67.123	106.756	102.892	0.00	0.00
ATOM	26386	CD1	TYR	1755	65.761	106.770	102.703	0.00	0.00
ATOM	26387	HD1	TYR	1755	65.154	106.316	103.473	0.00	0.00
ATOM	26388	CE1	TYR	1755	65.174	107.209	101.524	0.00	0.00
ATOM	26389	HE1	TYR	1755	64.159	107.089	101.174	0.00	0.00
ATOM	26390	CZ	TYR	1755	66.016	107.838	100.532	0.00	0.00
ATOM	26391	OH	TYR	1755	65.477	108.203	99.295	0.00	0.00
ATOM	26392	HH	TYR	1755	64.547	107.987	99.197	0.00	0.00
ATOM	26393	CE2	TYR	1755	67.433	107.849	100.751	0.00	0.00
ATOM	26394	HE2	TYR	1755	68.056	108.308	99.998	0.00	0.00
ATOM	26395	CD2	TYR	1755	67.977	107.372	101.943	0.00	0.00
ATOM	26396	HD2	TYR	1755	69.041	107.448	102.108	0.00	0.00
ATOM	26397	C	TYR	1755	68.957	104.347	102.972	0.00	0.00
ATOM	26398	O	TYR	1755	68.550	104.003	101.899	0.00	0.00
ATOM	26399	N	ALA	1756	70.221	104.244	103.273	0.00	0.00
ATOM	26400	H	ALA	1756	70.428	104.381	104.252	0.00	0.00
ATOM	26401	CA	ALA	1756	71.238	103.531	102.467	0.00	0.00
ATOM	26402	HA	ALA	1756	71.310	104.030	101.501	0.00	0.00
ATOM	26403	CB	ALA	1756	72.574	103.700	103.161	0.00	0.00
ATOM	26404	HB1	ALA	1756	72.541	102.996	103.992	0.00	0.00
ATOM	26405	HB2	ALA	1756	73.414	103.576	102.477	0.00	0.00
ATOM	26406	HB3	ALA	1756	72.629	104.728	103.518	0.00	0.00
ATOM	26407	C	ALA	1756	70.974	102.036	102.049	0.00	0.00
ATOM	26408	O	ALA	1756	71.441	101.519	101.011	0.00	0.00
ATOM	26409	N	ASP	1757	70.302	101.334	102.982	0.00	0.00

ATOM	26410	H	ASP	1757	70.169	101.862	103.833	0.00	0.00
ATOM	26411	CA	ASP	1757	70.099	99.933	103.090	0.00	0.00
ATOM	26412	HA	ASP	1757	70.921	99.440	102.571	0.00	0.00
ATOM	26413	CB	ASP	1757	70.220	99.560	104.564	0.00	0.00
ATOM	26414	HB2	ASP	1757	70.999	100.091	105.110	0.00	0.00
ATOM	26415	HB3	ASP	1757	69.294	99.756	105.104	0.00	0.00
ATOM	26416	CG	ASP	1757	70.566	98.092	104.713	0.00	0.00
ATOM	26417	OD1	ASP	1757	71.625	97.774	104.051	0.00	0.00
ATOM	26418	OD2	ASP	1757	69.878	97.360	105.397	0.00	0.00
ATOM	26419	C	ASP	1757	68.795	99.476	102.439	0.00	0.00
ATOM	26420	O	ASP	1757	68.761	98.458	101.745	0.00	0.00
ATOM	26421	N	MET	1758	67.702	100.272	102.689	0.00	0.00
ATOM	26422	H	MET	1758	67.752	101.074	103.301	0.00	0.00
ATOM	26423	CA	MET	1758	66.460	100.038	102.074	0.00	0.00
ATOM	26424	HA	MET	1758	66.148	98.994	102.105	0.00	0.00
ATOM	26425	CB	MET	1758	65.332	100.644	102.945	0.00	0.00
ATOM	26426	HB2	MET	1758	64.411	100.697	102.363	0.00	0.00
ATOM	26427	HB3	MET	1758	65.736	101.649	103.065	0.00	0.00
ATOM	26428	CG	MET	1758	65.070	99.802	104.225	0.00	0.00
ATOM	26429	HG2	MET	1758	64.252	99.119	103.994	0.00	0.00
ATOM	26430	HG3	MET	1758	65.984	99.301	104.543	0.00	0.00
ATOM	26431	SD	MET	1758	64.485	100.923	105.535	0.00	0.00
ATOM	26432	CE	MET	1758	62.796	101.259	104.948	0.00	0.00
ATOM	26433	HE1	MET	1758	62.202	101.434	105.845	0.00	0.00
ATOM	26434	HE2	MET	1758	62.785	102.150	104.320	0.00	0.00
ATOM	26435	HE3	MET	1758	62.420	100.361	104.459	0.00	0.00

ATOM	26436	C	MET	1758	66.424	100.474	100.597	0.00	0.00
ATOM	26437	O	MET	1758	65.658	99.858	99.838	0.00	0.00
ATOM	26438	N	PHE	1759	67.206	101.507	100.293	0.00	0.00
ATOM	26439	H	PHE	1759	67.551	102.014	101.095	0.00	0.00
ATOM	26440	CA	PHE	1759	67.024	102.239	99.002	0.00	0.00
ATOM	26441	HA	PHE	1759	66.428	101.548	98.406	0.00	0.00
ATOM	26442	CB	PHE	1759	66.171	103.461	99.142	0.00	0.00
ATOM	26443	HB2	PHE	1759	66.764	104.285	99.539	0.00	0.00
ATOM	26444	HB3	PHE	1759	65.817	103.773	98.159	0.00	0.00
ATOM	26445	CG	PHE	1759	64.950	103.262	100.033	0.00	0.00
ATOM	26446	CD1	PHE	1759	64.972	103.913	101.270	0.00	0.00
ATOM	26447	HD1	PHE	1759	65.915	104.257	101.669	0.00	0.00
ATOM	26448	CE1	PHE	1759	63.816	103.969	101.995	0.00	0.00
ATOM	26449	HE1	PHE	1759	63.707	104.569	102.887	0.00	0.00
ATOM	26450	CZ	PHE	1759	62.655	103.157	101.665	0.00	0.00
ATOM	26451	HZ	PHE	1759	61.739	103.172	102.238	0.00	0.00
ATOM	26452	CE2	PHE	1759	62.757	102.323	100.513	0.00	0.00
ATOM	26453	HE2	PHE	1759	61.880	101.756	100.238	0.00	0.00
ATOM	26454	CD2	PHE	1759	63.807	102.505	99.631	0.00	0.00
ATOM	26455	HD2	PHE	1759	63.778	102.104	98.628	0.00	0.00
ATOM	26456	C	PHE	1759	68.388	102.450	98.288	0.00	0.00
ATOM	26457	O	PHE	1759	68.469	103.127	97.249	0.00	0.00
ATOM	26458	N	GLY	1760	69.435	101.714	98.698	0.00	0.00
ATOM	26459	H	GLY	1760	69.337	101.293	99.611	0.00	0.00
ATOM	26460	CA	GLY	1760	70.711	101.620	97.984	0.00	0.00
ATOM	26461	HA2	GLY	1760	71.339	100.835	98.405	0.00	0.00

ATOM	26462	HA3	GLY	1760	70.433	101.317	96.974	0.00	0.00
ATOM	26463	C	GLY	1760	71.543	102.896	98.087	0.00	0.00
ATOM	26464	O	GLY	1760	71.458	103.617	99.086	0.00	0.00
ATOM	26465	N	PRO	1761	72.380	103.162	97.122	0.00	0.00
ATOM	26466	CD	PRO	1761	72.641	102.320	95.989	0.00	0.00
ATOM	26467	HD2	PRO	1761	73.167	101.434	96.343	0.00	0.00
ATOM	26468	HD3	PRO	1761	71.695	101.900	95.646	0.00	0.00
ATOM	26469	CG	PRO	1761	73.459	103.103	94.986	0.00	0.00
ATOM	26470	HG2	PRO	1761	74.163	102.413	94.520	0.00	0.00
ATOM	26471	HG3	PRO	1761	72.996	103.679	94.185	0.00	0.00
ATOM	26472	CB	PRO	1761	74.261	103.939	95.975	0.00	0.00
ATOM	26473	HB2	PRO	1761	75.081	103.321	96.341	0.00	0.00
ATOM	26474	HB3	PRO	1761	74.604	104.854	95.492	0.00	0.00
ATOM	26475	CA	PRO	1761	73.355	104.201	97.188	0.00	0.00
ATOM	26476	HA	PRO	1761	73.971	103.988	98.061	0.00	0.00
ATOM	26477	C	PRO	1761	72.728	105.638	97.258	0.00	0.00
ATOM	26478	O	PRO	1761	72.020	106.081	96.342	0.00	0.00
ATOM	26479	N	THR	1762	73.218	106.473	98.142	0.00	0.00
ATOM	26480	H	THR	1762	73.839	105.990	98.774	0.00	0.00
ATOM	26481	CA	THR	1762	72.941	107.895	98.482	0.00	0.00
ATOM	26482	HA	THR	1762	71.930	108.242	98.271	0.00	0.00
ATOM	26483	CB	THR	1762	72.967	108.274	100.006	0.00	0.00
ATOM	26484	HB	THR	1762	73.042	109.344	100.197	0.00	0.00
ATOM	26485	CG2	THR	1762	71.827	107.688	100.800	0.00	0.00
ATOM	26486	1HG2	THR	1762	70.938	108.224	100.468	0.00	0.00
ATOM	26487	2HG2	THR	1762	71.667	106.631	100.587	0.00	0.00

ATOM 26488 3HG2 THR 1762 72.064 107.819 101.856 0.00 0.00  
ATOM 26489 OG1 THR 1762 74.091 107.676 100.622 0.00 0.00  
ATOM 26490 HG1 THR 1762 74.702 108.316 100.994 0.00 0.00  
ATOM 26491 C THR 1762 73.916 108.847 97.678 0.00 0.00  
ATOM 26492 O THR 1762 75.061 108.495 97.287 0.00 0.00  
ATOM 26493 N VAL 1763 73.396 110.011 97.414 0.00 0.00  
ATOM 26494 H VAL 1763 72.471 110.267 97.727 0.00 0.00  
ATOM 26495 CA VAL 1763 74.294 111.112 96.962 0.00 0.00  
ATOM 26496 HA VAL 1763 74.693 110.790 96.001 0.00 0.00  
ATOM 26497 CB VAL 1763 73.534 112.403 96.403 0.00 0.00  
ATOM 26498 HB VAL 1763 72.796 111.981 95.721 0.00 0.00  
ATOM 26499 CG1 VAL 1763 72.671 113.173 97.339 0.00 0.00  
ATOM 26500 1HG1 VAL 1763 73.256 113.575 98.166 0.00 0.00  
ATOM 26501 2HG1 VAL 1763 72.214 114.062 96.905 0.00 0.00  
ATOM 26502 3HG1 VAL 1763 71.894 112.596 97.840 0.00 0.00  
ATOM 26503 CG2 VAL 1763 74.408 113.325 95.503 0.00 0.00  
ATOM 26504 1HG2 VAL 1763 75.082 112.785 94.839 0.00 0.00  
ATOM 26505 2HG2 VAL 1763 73.666 113.962 95.021 0.00 0.00  
ATOM 26506 3HG2 VAL 1763 75.094 113.865 96.156 0.00 0.00  
ATOM 26507 C VAL 1763 75.481 111.462 97.961 0.00 0.00  
ATOM 26508 O VAL 1763 75.254 111.362 99.177 0.00 0.00  
ATOM 26509 N GLY 1764 76.641 111.872 97.393 0.00 0.00  
ATOM 26510 H GLY 1764 76.715 111.865 96.386 0.00 0.00  
ATOM 26511 CA GLY 1764 77.724 112.319 98.191 0.00 0.00  
ATOM 26512 HA2 GLY 1764 78.431 113.027 97.759 0.00 0.00  
ATOM 26513 HA3 GLY 1764 77.289 112.823 99.054 0.00 0.00

ATOM	26514	C	GLY	1764	78.548	111.214	98.841	0.00	0.00
ATOM	26515	O	GLY	1764	79.364	111.377	99.716	0.00	0.00
ATOM	26516	N	ASP	1765	78.239	109.932	98.432	0.00	0.00
ATOM	26517	H	ASP	1765	77.710	109.787	97.583	0.00	0.00
ATOM	26518	CA	ASP	1765	78.683	108.670	99.090	0.00	0.00
ATOM	26519	HA	ASP	1765	79.622	108.902	99.593	0.00	0.00
ATOM	26520	CB	ASP	1765	77.645	108.138	100.038	0.00	0.00
ATOM	26521	HB2	ASP	1765	76.663	107.969	99.597	0.00	0.00
ATOM	26522	HB3	ASP	1765	78.004	107.156	100.347	0.00	0.00
ATOM	26523	CG	ASP	1765	77.409	109.034	101.272	0.00	0.00
ATOM	26524	OD1	ASP	1765	78.278	109.308	102.118	0.00	0.00
ATOM	26525	OD2	ASP	1765	76.171	109.399	101.476	0.00	0.00
ATOM	26526	C	ASP	1765	79.108	107.666	98.090	0.00	0.00
ATOM	26527	O	ASP	1765	78.729	107.704	96.910	0.00	0.00
ATOM	26528	N	LYS	1766	79.928	106.690	98.536	0.00	0.00
ATOM	26529	H	LYS	1766	79.962	106.587	99.541	0.00	0.00
ATOM	26530	CA	LYS	1766	80.877	105.952	97.713	0.00	0.00
ATOM	26531	HA	LYS	1766	80.570	106.247	96.709	0.00	0.00
ATOM	26532	CB	LYS	1766	82.343	106.281	98.038	0.00	0.00
ATOM	26533	HB2	LYS	1766	82.489	106.092	99.102	0.00	0.00
ATOM	26534	HB3	LYS	1766	83.122	105.669	97.583	0.00	0.00
ATOM	26535	CG	LYS	1766	82.825	107.766	97.766	0.00	0.00
ATOM	26536	HG2	LYS	1766	82.350	108.081	96.837	0.00	0.00
ATOM	26537	HG3	LYS	1766	82.491	108.478	98.520	0.00	0.00
ATOM	26538	CD	LYS	1766	84.320	107.890	97.711	0.00	0.00
ATOM	26539	HD2	LYS	1766	84.840	107.331	98.490	0.00	0.00



ATOM	26540	HD3	LYS	1766	84.659	107.530	96.740	0.00	0.00
ATOM	26541	CE	LYS	1766	84.763	109.367	97.754	0.00	0.00
ATOM	26542	HE2	LYS	1766	85.235	109.610	96.801	0.00	0.00
ATOM	26543	HE3	LYS	1766	83.885	110.007	97.835	0.00	0.00
ATOM	26544	NZ	LYS	1766	85.762	109.612	98.776	0.00	0.00
ATOM	26545	HZ1	LYS	1766	86.199	110.517	98.674	0.00	0.00
ATOM	26546	HZ2	LYS	1766	85.400	109.558	99.717	0.00	0.00
ATOM	26547	HZ3	LYS	1766	86.542	108.979	98.675	0.00	0.00
ATOM	26548	C	LYS	1766	80.702	104.441	97.709	0.00	0.00
ATOM	26549	O	LYS	1766	80.159	103.912	98.677	0.00	0.00
ATOM	26550	N	VAL	1767	81.110	103.758	96.651	0.00	0.00
ATOM	26551	H	VAL	1767	81.563	104.312	95.938	0.00	0.00
ATOM	26552	CA	VAL	1767	81.194	102.284	96.645	0.00	0.00
ATOM	26553	HA	VAL	1767	81.285	102.075	97.710	0.00	0.00
ATOM	26554	CB	VAL	1767	79.921	101.593	96.168	0.00	0.00
ATOM	26555	HB	VAL	1767	78.939	101.923	96.506	0.00	0.00
ATOM	26556	CG1	VAL	1767	79.738	101.643	94.644	0.00	0.00
ATOM	26557	1HG1	VAL	1767	78.667	101.539	94.471	0.00	0.00
ATOM	26558	2HG1	VAL	1767	80.041	102.608	94.237	0.00	0.00
ATOM	26559	3HG1	VAL	1767	80.234	100.842	94.096	0.00	0.00
ATOM	26560	CG2	VAL	1767	79.964	100.104	96.546	0.00	0.00
ATOM	26561	1HG2	VAL	1767	79.112	99.567	96.129	0.00	0.00
ATOM	26562	2HG2	VAL	1767	80.892	99.560	96.369	0.00	0.00
ATOM	26563	3HG2	VAL	1767	79.864	100.002	97.627	0.00	0.00
ATOM	26564	C	VAL	1767	82.408	101.788	95.933	0.00	0.00
ATOM	26565	O	VAL	1767	82.925	102.457	95.036	0.00	0.00

ATOM	26566	N	ARG	1768	83.062	100.731	96.439	0.00	0.00
ATOM	26567	H	ARG	1768	82.723	100.255	97.263	0.00	0.00
ATOM	26568	CA	ARG	1768	84.220	100.095	95.795	0.00	0.00
ATOM	26569	HA	ARG	1768	84.885	100.841	95.359	0.00	0.00
ATOM	26570	CB	ARG	1768	85.014	99.381	96.960	0.00	0.00
ATOM	26571	HB2	ARG	1768	85.297	100.138	97.690	0.00	0.00
ATOM	26572	HB3	ARG	1768	84.341	98.691	97.469	0.00	0.00
ATOM	26573	CG	ARG	1768	86.254	98.579	96.553	0.00	0.00
ATOM	26574	HG2	ARG	1768	86.027	97.760	95.871	0.00	0.00
ATOM	26575	HG3	ARG	1768	86.887	99.303	96.041	0.00	0.00
ATOM	26576	CD	ARG	1768	86.959	98.117	97.789	0.00	0.00
ATOM	26577	HD2	ARG	1768	86.336	97.377	98.291	0.00	0.00
ATOM	26578	HD3	ARG	1768	87.310	98.950	98.398	0.00	0.00
ATOM	26579	NE	ARG	1768	88.231	97.456	97.409	0.00	0.00
ATOM	26580	HE	ARG	1768	88.592	97.814	96.537	0.00	0.00
ATOM	26581	CZ	ARG	1768	88.776	96.412	97.931	0.00	0.00
ATOM	26582	NH1	ARG	1768	88.277	95.767	98.902	0.00	0.00
ATOM	26583	1HH1	ARG	1768	88.740	94.918	99.192	0.00	0.00
ATOM	26584	2HH1	ARG	1768	87.323	96.015	99.125	0.00	0.00
ATOM	26585	NH2	ARG	1768	89.817	95.926	97.432	0.00	0.00
ATOM	26586	1HH2	ARG	1768	90.267	95.113	97.828	0.00	0.00
ATOM	26587	2HH2	ARG	1768	90.469	96.515	96.934	0.00	0.00
ATOM	26588	C	ARG	1768	83.835	99.198	94.639	0.00	0.00
ATOM	26589	O	ARG	1768	82.711	98.693	94.472	0.00	0.00
ATOM	26590	N	LEU	1769	84.808	98.790	93.812	0.00	0.00
ATOM	26591	H	LEU	1769	85.781	99.038	93.923	0.00	0.00

ATOM 26592	CA	LEU	1769	84.644	98.025	92.536	0.00	0.00
ATOM 26593	HA	LEU	1769	83.605	97.733	92.388	0.00	0.00
ATOM 26594	CB	LEU	1769	84.972	98.941	91.294	0.00	0.00
ATOM 26595	HB2	LEU	1769	85.952	99.386	91.462	0.00	0.00
ATOM 26596	HB3	LEU	1769	84.809	98.413	90.354	0.00	0.00
ATOM 26597	CG	LEU	1769	83.909	100.074	91.204	0.00	0.00
ATOM 26598	HG	LEU	1769	83.632	100.458	92.186	0.00	0.00
ATOM 26599	CD1	LEU	1769	84.435	101.165	90.309	0.00	0.00
ATOM 26600	1HD1	LEU	1769	84.052	102.173	90.468	0.00	0.00
ATOM 26601	2HD1	LEU	1769	85.502	101.133	90.087	0.00	0.00
ATOM 26602	3HD1	LEU	1769	84.146	100.974	89.275	0.00	0.00
ATOM 26603	CD2	LEU	1769	82.536	99.722	90.516	0.00	0.00
ATOM 26604	1HD2	LEU	1769	81.978	99.165	91.269	0.00	0.00
ATOM 26605	2HD2	LEU	1769	81.993	100.632	90.261	0.00	0.00
ATOM 26606	3HD2	LEU	1769	82.649	99.116	89.617	0.00	0.00
ATOM 26607	C	LEU	1769	85.467	96.768	92.631	0.00	0.00
ATOM 26608	O	LEU	1769	86.673	96.872	92.616	0.00	0.00
ATOM 26609	N	ALA	1770	84.820	95.599	92.870	0.00	0.00
ATOM 26610	H	ALA	1770	83.811	95.570	92.901	0.00	0.00
ATOM 26611	CA	ALA	1770	85.471	94.363	93.092	0.00	0.00
ATOM 26612	HA	ALA	1770	84.714	93.702	93.516	0.00	0.00
ATOM 26613	CB	ALA	1770	85.883	93.826	91.691	0.00	0.00
ATOM 26614	HB1	ALA	1770	85.086	94.038	90.978	0.00	0.00
ATOM 26615	HB2	ALA	1770	86.763	94.393	91.387	0.00	0.00
ATOM 26616	HB3	ALA	1770	86.166	92.779	91.798	0.00	0.00
ATOM 26617	C	ALA	1770	86.642	94.424	94.195	0.00	0.00

ATOM	26618	O	ALA	1770	86.504	95.116	95.201	0.00	0.00
ATOM	26619	N	ASP	1771	87.696	93.626	93.938	0.00	0.00
ATOM	26620	H	ASP	1771	87.770	93.156	93.047	0.00	0.00
ATOM	26621	CA	ASP	1771	88.904	93.650	94.796	0.00	0.00
ATOM	26622	HA	ASP	1771	88.528	93.970	95.768	0.00	0.00
ATOM	26623	CB	ASP	1771	89.381	92.150	94.888	0.00	0.00
ATOM	26624	HB2	ASP	1771	90.034	92.208	95.759	0.00	0.00
ATOM	26625	HB3	ASP	1771	88.543	91.491	95.112	0.00	0.00
ATOM	26626	CG	ASP	1771	90.056	91.581	93.713	0.00	0.00
ATOM	26627	OD1	ASP	1771	89.615	91.886	92.560	0.00	0.00
ATOM	26628	OD2	ASP	1771	91.029	90.775	93.871	0.00	0.00
ATOM	26629	C	ASP	1771	89.936	94.714	94.441	0.00	0.00
ATOM	26630	O	ASP	1771	91.065	94.568	94.808	0.00	0.00
ATOM	26631	N	THR	1772	89.559	95.736	93.674	0.00	0.00
ATOM	26632	H	THR	1772	88.554	95.831	93.637	0.00	0.00
ATOM	26633	CA	THR	1772	90.403	96.959	93.249	0.00	0.00
ATOM	26634	HA	THR	1772	91.427	96.650	93.040	0.00	0.00
ATOM	26635	CB	THR	1772	89.841	97.606	91.937	0.00	0.00
ATOM	26636	HB	THR	1772	90.648	98.192	91.497	0.00	0.00
ATOM	26637	CG2	THR	1772	89.450	96.611	90.836	0.00	0.00
ATOM	26638	1HG2	THR	1772	90.241	95.898	90.604	0.00	0.00
ATOM	26639	2HG2	THR	1772	88.575	95.989	91.019	0.00	0.00
ATOM	26640	3HG2	THR	1772	89.122	97.158	89.953	0.00	0.00
ATOM	26641	OG1	THR	1772	88.747	98.393	92.139	0.00	0.00
ATOM	26642	HG1	THR	1772	87.939	97.887	92.249	0.00	0.00
ATOM	26643	C	THR	1772	90.498	98.036	94.267	0.00	0.00

ATOM	26644	O	THR	1772	89.838	98.069	95.291	0.00	0.00
ATOM	26645	N	GLU	1773	91.394	98.957	93.985	0.00	0.00
ATOM	26646	H	GLU	1773	92.094	98.776	93.279	0.00	0.00
ATOM	26647	CA	GLU	1773	91.599	100.188	94.664	0.00	0.00
ATOM	26648	HA	GLU	1773	91.455	100.092	95.740	0.00	0.00
ATOM	26649	CB	GLU	1773	93.065	100.645	94.571	0.00	0.00
ATOM	26650	HB2	GLU	1773	93.345	100.444	93.537	0.00	0.00
ATOM	26651	HB3	GLU	1773	93.328	101.681	94.787	0.00	0.00
ATOM	26652	CG	GLU	1773	94.024	99.768	95.483	0.00	0.00
ATOM	26653	HG2	GLU	1773	93.849	98.700	95.353	0.00	0.00
ATOM	26654	HG3	GLU	1773	95.064	99.840	95.163	0.00	0.00
ATOM	26655	CD	GLU	1773	93.890	100.279	96.935	0.00	0.00
ATOM	26656	OE1	GLU	1773	93.098	99.662	97.684	0.00	0.00
ATOM	26657	OE2	GLU	1773	94.638	101.228	97.370	0.00	0.00
ATOM	26658	C	GLU	1773	90.593	101.298	94.162	0.00	0.00
ATOM	26659	O	GLU	1773	90.727	102.483	94.487	0.00	0.00
ATOM	26660	N	LEU	1774	89.579	100.954	93.346	0.00	0.00
ATOM	26661	H	LEU	1774	89.506	100.033	92.939	0.00	0.00
ATOM	26662	CA	LEU	1774	88.659	101.944	92.797	0.00	0.00
ATOM	26663	HA	LEU	1774	89.226	102.873	92.755	0.00	0.00
ATOM	26664	CB	LEU	1774	88.329	101.493	91.355	0.00	0.00
ATOM	26665	HB2	LEU	1774	87.842	100.531	91.518	0.00	0.00
ATOM	26666	HB3	LEU	1774	87.619	102.157	90.862	0.00	0.00
ATOM	26667	CG	LEU	1774	89.551	101.341	90.375	0.00	0.00
ATOM	26668	HG	LEU	1774	90.292	100.676	90.817	0.00	0.00
ATOM	26669	CD1	LEU	1774	89.030	100.665	89.057	0.00	0.00

ATOM	26670	1HD1	LEU	1774	88.211	101.060	88.456	0.00	0.00
ATOM	26671	2HD1	LEU	1774	89.899	100.515	88.416	0.00	0.00
ATOM	26672	3HD1	LEU	1774	88.510	99.733	89.279	0.00	0.00
ATOM	26673	CD2	LEU	1774	90.362	102.570	89.969	0.00	0.00
ATOM	26674	1HD2	LEU	1774	89.835	103.303	89.357	0.00	0.00
ATOM	26675	2HD2	LEU	1774	90.790	102.985	90.881	0.00	0.00
ATOM	26676	3HD2	LEU	1774	91.193	102.131	89.417	0.00	0.00
ATOM	26677	C	LEU	1774	87.373	102.151	93.543	0.00	0.00
ATOM	26678	O	LEU	1774	86.688	101.159	93.902	0.00	0.00
ATOM	26679	N	TRP	1775	87.186	103.400	93.897	0.00	0.00
ATOM	26680	H	TRP	1775	87.908	104.029	93.574	0.00	0.00
ATOM	26681	CA	TRP	1775	85.999	103.913	94.596	0.00	0.00
ATOM	26682	HA	TRP	1775	85.352	103.085	94.886	0.00	0.00
ATOM	26683	CB	TRP	1775	86.362	104.533	95.953	0.00	0.00
ATOM	26684	HB2	TRP	1775	87.024	105.386	95.805	0.00	0.00
ATOM	26685	HB3	TRP	1775	85.504	105.146	96.227	0.00	0.00
ATOM	26686	CG	TRP	1775	86.920	103.795	97.177	0.00	0.00
ATOM	26687	CD1	TRP	1775	88.151	103.780	97.597	0.00	0.00
ATOM	26688	HD1	TRP	1775	88.921	104.174	96.950	0.00	0.00
ATOM	26689	NE1	TRP	1775	88.340	103.037	98.758	0.00	0.00
ATOM	26690	HE1	TRP	1775	89.237	102.962	99.216	0.00	0.00
ATOM	26691	CE2	TRP	1775	87.134	102.574	99.217	0.00	0.00
ATOM	26692	CZ2	TRP	1775	86.756	101.831	100.320	0.00	0.00
ATOM	26693	HZ2	TRP	1775	87.502	101.466	101.011	0.00	0.00
ATOM	26694	CH2	TRP	1775	85.367	101.573	100.541	0.00	0.00
ATOM	26695	HH2	TRP	1775	85.009	101.026	101.401	0.00	0.00

ATOM	26696	CZ3	TRP	1775	84.452	102.185	99.665	0.00	0.00
ATOM	26697	HZ3	TRP	1775	83.396	102.047	99.844	0.00	0.00
ATOM	26698	CE3	TRP	1775	84.828	102.976	98.580	0.00	0.00
ATOM	26699	HE3	TRP	1775	84.120	103.336	97.848	0.00	0.00
ATOM	26700	CD2	TRP	1775	86.185	103.122	98.284	0.00	0.00
ATOM	26701	C	TRP	1775	85.293	105.027	93.831	0.00	0.00
ATOM	26702	O	TRP	1775	85.864	106.053	93.630	0.00	0.00
ATOM	26703	N	ILE	1776	84.017	104.813	93.395	0.00	0.00
ATOM	26704	H	ILE	1776	83.575	103.932	93.614	0.00	0.00
ATOM	26705	CA	ILE	1776	83.157	105.831	92.626	0.00	0.00
ATOM	26706	HA	ILE	1776	83.785	106.602	92.181	0.00	0.00
ATOM	26707	CB	ILE	1776	82.386	105.245	91.470	0.00	0.00
ATOM	26708	HB	ILE	1776	81.632	105.950	91.119	0.00	0.00
ATOM	26709	CG2	ILE	1776	83.375	105.083	90.335	0.00	0.00
ATOM	26710	1HG2	ILE	1776	83.852	106.050	90.178	0.00	0.00
ATOM	26711	2HG2	ILE	1776	84.117	104.354	90.662	0.00	0.00
ATOM	26712	3HG2	ILE	1776	82.904	104.781	89.399	0.00	0.00
ATOM	26713	CG1	ILE	1776	81.680	103.907	91.915	0.00	0.00
ATOM	26714	2HG1	ILE	1776	82.490	103.177	91.922	0.00	0.00
ATOM	26715	3HG1	ILE	1776	81.092	104.055	92.821	0.00	0.00
ATOM	26716	CD1	ILE	1776	80.720	103.653	90.766	0.00	0.00
ATOM	26717	1HD1	ILE	1776	81.220	103.398	89.832	0.00	0.00
ATOM	26718	2HD1	ILE	1776	80.095	102.789	90.996	0.00	0.00
ATOM	26719	3HD1	ILE	1776	80.007	104.470	90.654	0.00	0.00
ATOM	26720	C	ILE	1776	82.246	106.570	93.647	0.00	0.00
ATOM	26721	O	ILE	1776	81.616	105.917	94.491	0.00	0.00

ATOM	26722	N	GLU	1777	82.071	107.887	93.595	0.00	0.00
ATOM	26723	H	GLU	1777	82.450	108.274	92.743	0.00	0.00
ATOM	26724	CA	GLU	1777	81.059	108.634	94.438	0.00	0.00
ATOM	26725	HA	GLU	1777	80.850	108.053	95.337	0.00	0.00
ATOM	26726	CB	GLU	1777	81.751	109.952	94.895	0.00	0.00
ATOM	26727	HB2	GLU	1777	82.726	109.787	95.353	0.00	0.00
ATOM	26728	HB3	GLU	1777	81.932	110.540	93.996	0.00	0.00
ATOM	26729	CG	GLU	1777	80.929	110.743	95.891	0.00	0.00
ATOM	26730	HG2	GLU	1777	79.945	110.995	95.494	0.00	0.00
ATOM	26731	HG3	GLU	1777	80.732	110.083	96.735	0.00	0.00
ATOM	26732	CD	GLU	1777	81.547	112.021	96.325	0.00	0.00
ATOM	26733	OE1	GLU	1777	82.634	111.927	96.997	0.00	0.00
ATOM	26734	OE2	GLU	1777	80.994	113.160	96.119	0.00	0.00
ATOM	26735	C	GLU	1777	79.733	108.853	93.629	0.00	0.00
ATOM	26736	O	GLU	1777	79.823	109.245	92.397	0.00	0.00
ATOM	26737	N	VAL	1778	78.550	108.704	94.219	0.00	0.00
ATOM	26738	H	VAL	1778	78.491	108.352	95.164	0.00	0.00
ATOM	26739	CA	VAL	1778	77.321	109.140	93.529	0.00	0.00
ATOM	26740	HA	VAL	1778	77.250	108.683	92.542	0.00	0.00
ATOM	26741	CB	VAL	1778	76.054	108.683	94.172	0.00	0.00
ATOM	26742	HB	VAL	1778	76.005	109.063	95.192	0.00	0.00
ATOM	26743	CG1	VAL	1778	74.776	109.289	93.557	0.00	0.00
ATOM	26744	1HG1	VAL	1778	74.865	110.336	93.848	0.00	0.00
ATOM	26745	2HG1	VAL	1778	74.783	109.074	92.488	0.00	0.00
ATOM	26746	3HG1	VAL	1778	73.861	108.864	93.968	0.00	0.00
ATOM	26747	CG2	VAL	1778	75.924	107.136	94.265	0.00	0.00



ATOM	26748	1HG2	VAL	1778	75.471	106.660	93.395	0.00	0.00
ATOM	26749	2HG2	VAL	1778	76.860	106.623	94.486	0.00	0.00
ATOM	26750	3HG2	VAL	1778	75.167	106.867	95.002	0.00	0.00
ATOM	26751	C	VAL	1778	77.298	110.643	93.344	0.00	0.00
ATOM	26752	O	VAL	1778	77.152	111.403	94.343	0.00	0.00
ATOM	26753	N	GLU	1779	77.315	111.065	92.126	0.00	0.00
ATOM	26754	H	GLU	1779	77.503	110.391	91.397	0.00	0.00
ATOM	26755	CA	GLU	1779	77.384	112.433	91.648	0.00	0.00
ATOM	26756	HA	GLU	1779	78.094	112.960	92.286	0.00	0.00
ATOM	26757	CB	GLU	1779	77.990	112.497	90.230	0.00	0.00
ATOM	26758	HB2	GLU	1779	77.390	111.862	89.577	0.00	0.00
ATOM	26759	HB3	GLU	1779	77.920	113.533	89.900	0.00	0.00
ATOM	26760	CG	GLU	1779	79.430	111.884	90.106	0.00	0.00
ATOM	26761	HG2	GLU	1779	80.112	112.474	90.720	0.00	0.00
ATOM	26762	HG3	GLU	1779	79.491	110.865	90.488	0.00	0.00
ATOM	26763	CD	GLU	1779	79.953	111.939	88.696	0.00	0.00
ATOM	26764	OE1	GLU	1779	81.126	112.302	88.481	0.00	0.00
ATOM	26765	OE2	GLU	1779	79.200	111.692	87.752	0.00	0.00
ATOM	26766	C	GLU	1779	76.021	113.174	91.886	0.00	0.00
ATOM	26767	O	GLU	1779	76.008	114.345	92.334	0.00	0.00
ATOM	26768	N	ASP	1780	74.964	112.467	91.517	0.00	0.00
ATOM	26769	H	ASP	1780	75.150	111.505	91.272	0.00	0.00
ATOM	26770	CA	ASP	1780	73.627	112.813	91.994	0.00	0.00
ATOM	26771	HA	ASP	1780	73.704	113.382	92.920	0.00	0.00
ATOM	26772	CB	ASP	1780	73.101	113.762	90.943	0.00	0.00
ATOM	26773	HB2	ASP	1780	72.736	113.176	90.099	0.00	0.00

ATOM	26774	HB3	ASP	1780	73.897	114.446	90.648	0.00	0.00
ATOM	26775	CG	ASP	1780	71.812	114.520	91.487	0.00	0.00
ATOM	26776	OD1	ASP	1780	70.854	114.708	90.645	0.00	0.00
ATOM	26777	OD2	ASP	1780	71.813	114.985	92.619	0.00	0.00
ATOM	26778	C	ASP	1780	72.619	111.686	92.176	0.00	0.00
ATOM	26779	O	ASP	1780	72.652	110.603	91.534	0.00	0.00
ATOM	26780	N	ASP	1781	71.702	111.781	93.105	0.00	0.00
ATOM	26781	H	ASP	1781	71.788	112.540	93.766	0.00	0.00
ATOM	26782	CA	ASP	1781	70.559	110.831	93.327	0.00	0.00
ATOM	26783	HA	ASP	1781	70.700	109.965	92.681	0.00	0.00
ATOM	26784	CB	ASP	1781	70.691	110.299	94.727	0.00	0.00
ATOM	26785	HB2	ASP	1781	71.717	109.999	94.940	0.00	0.00
ATOM	26786	HB3	ASP	1781	70.526	111.235	95.260	0.00	0.00
ATOM	26787	CG	ASP	1781	69.635	109.241	95.043	0.00	0.00
ATOM	26788	OD1	ASP	1781	69.345	108.969	96.230	0.00	0.00
ATOM	26789	OD2	ASP	1781	69.171	108.594	94.107	0.00	0.00
ATOM	26790	C	ASP	1781	69.261	111.385	92.974	0.00	0.00
ATOM	26791	O	ASP	1781	68.764	112.358	93.663	0.00	0.00
ATOM	26792	N	LEU	1782	68.708	110.954	91.833	0.00	0.00
ATOM	26793	H	LEU	1782	69.239	110.185	91.450	0.00	0.00
ATOM	26794	CA	LEU	1782	67.514	111.474	91.240	0.00	0.00
ATOM	26795	HA	LEU	1782	67.365	112.551	91.324	0.00	0.00
ATOM	26796	CB	LEU	1782	67.621	111.119	89.709	0.00	0.00
ATOM	26797	HB2	LEU	1782	68.019	110.110	89.601	0.00	0.00
ATOM	26798	HB3	LEU	1782	66.563	111.002	89.473	0.00	0.00
ATOM	26799	CG	LEU	1782	68.255	112.136	88.732	0.00	0.00

ATOM 26800	HG LEU 1782	67.884	113.102	89.077	0.00	0.00
ATOM 26801	CD1 LEU 1782	69.821	112.176	88.852	0.00	0.00
ATOM 26802	1HD1 LEU 1782	70.133	112.406	89.871	0.00	0.00
ATOM 26803	2HD1 LEU 1782	70.257	111.225	88.546	0.00	0.00
ATOM 26804	3HD1 LEU 1782	70.190	112.982	88.218	0.00	0.00
ATOM 26805	CD2 LEU 1782	67.871	111.957	87.297	0.00	0.00
ATOM 26806	1HD2 LEU 1782	68.470	112.553	86.609	0.00	0.00
ATOM 26807	2HD2 LEU 1782	67.979	110.932	86.941	0.00	0.00
ATOM 26808	3HD2 LEU 1782	66.889	112.385	87.098	0.00	0.00
ATOM 26809	C LEU 1782	66.398	110.708	91.993	0.00	0.00
ATOM 26810	O LEU 1782	65.786	109.772	91.481	0.00	0.00
ATOM 26811	N THR 1783	66.312	111.054	93.298	0.00	0.00
ATOM 26812	H THR 1783	67.041	111.659	93.649	0.00	0.00
ATOM 26813	CA THR 1783	65.251	110.568	94.245	0.00	0.00
ATOM 26814	HA THR 1783	64.546	109.895	93.758	0.00	0.00
ATOM 26815	CB THR 1783	65.897	109.702	95.440	0.00	0.00
ATOM 26816	HB THR 1783	66.624	108.969	95.090	0.00	0.00
ATOM 26817	CG2 THR 1783	66.476	110.574	96.575	0.00	0.00
ATOM 26818	1HG2 THR 1783	65.745	111.203	97.083	0.00	0.00
ATOM 26819	2HG2 THR 1783	66.907	109.841	97.257	0.00	0.00
ATOM 26820	3HG2 THR 1783	67.288	111.184	96.179	0.00	0.00
ATOM 26821	OG1 THR 1783	64.896	109.003	96.074	0.00	0.00
ATOM 26822	HG1 THR 1783	65.308	108.494	96.776	0.00	0.00
ATOM 26823	C THR 1783	64.352	111.723	94.648	0.00	0.00
ATOM 26824	O THR 1783	64.537	112.845	94.186	0.00	0.00
ATOM 26825	N THR 1784	63.405	111.467	95.535	0.00	0.00

ATOM	26826	H	THR	1784	63.236	110.487	95.711	0.00	0.00
ATOM	26827	CA	THR	1784	62.402	112.444	95.967	0.00	0.00
ATOM	26828	HA	THR	1784	62.724	113.431	95.633	0.00	0.00
ATOM	26829	CB	THR	1784	61.011	112.143	95.517	0.00	0.00
ATOM	26830	HB	THR	1784	60.555	111.372	96.138	0.00	0.00
ATOM	26831	CG2	THR	1784	60.023	113.301	95.233	0.00	0.00
ATOM	26832	1HG2	THR	1784	59.078	112.820	94.980	0.00	0.00
ATOM	26833	2HG2	THR	1784	59.740	113.824	96.146	0.00	0.00
ATOM	26834	3HG2	THR	1784	60.343	113.963	94.429	0.00	0.00
ATOM	26835	OG1	THR	1784	61.054	111.500	94.244	0.00	0.00
ATOM	26836	HG1	THR	1784	61.377	110.604	94.366	0.00	0.00
ATOM	26837	C	THR	1784	62.256	112.475	97.525	0.00	0.00
ATOM	26838	O	THR	1784	61.509	113.366	97.998	0.00	0.00
ATOM	26839	N	TYR	1785	62.892	111.516	98.268	0.00	0.00
ATOM	26840	H	TYR	1785	63.648	111.013	97.825	0.00	0.00
ATOM	26841	CA	TYR	1785	62.746	111.261	99.668	0.00	0.00
ATOM	26842	HA	TYR	1785	63.236	110.325	99.935	0.00	0.00
ATOM	26843	CB	TYR	1785	63.434	112.356	100.454	0.00	0.00
ATOM	26844	HB2	TYR	1785	63.009	113.323	100.184	0.00	0.00
ATOM	26845	HB3	TYR	1785	63.299	112.261	101.532	0.00	0.00
ATOM	26846	CG	TYR	1785	64.904	112.474	100.124	0.00	0.00
ATOM	26847	CD1	TYR	1785	65.374	113.517	99.274	0.00	0.00
ATOM	26848	HD1	TYR	1785	64.714	114.324	98.992	0.00	0.00
ATOM	26849	CE1	TYR	1785	66.690	113.442	98.758	0.00	0.00
ATOM	26850	HE1	TYR	1785	66.991	114.205	98.055	0.00	0.00
ATOM	26851	CZ	TYR	1785	67.613	112.450	99.176	0.00	0.00

ATOM	26852	OH	TYR	1785	68.883	112.358	98.657	0.00	0.00
ATOM	26853	HH	TYR	1785	68.998	112.943	97.905	0.00	0.00
ATOM	26854	CE2	TYR	1785	67.126	111.454	99.987	0.00	0.00
ATOM	26855	HE2	TYR	1785	67.873	110.717	100.242	0.00	0.00
ATOM	26856	CD2	TYR	1785	65.810	111.400	100.454	0.00	0.00
ATOM	26857	HD2	TYR	1785	65.408	110.592	101.047	0.00	0.00
ATOM	26858	C	TYR	1785	61.248	111.074	100.153	0.00	0.00
ATOM	26859	O	TYR	1785	60.726	111.813	100.934	0.00	0.00
ATOM	26860	N	GLY	1786	60.517	110.050	99.660	0.00	0.00
ATOM	26861	H	GLY	1786	61.106	109.512	99.041	0.00	0.00
ATOM	26862	CA	GLY	1786	59.179	109.622	100.053	0.00	0.00
ATOM	26863	HA2	GLY	1786	59.245	108.930	100.893	0.00	0.00
ATOM	26864	HA3	GLY	1786	58.662	110.578	100.134	0.00	0.00
ATOM	26865	C	GLY	1786	58.343	108.929	99.005	0.00	0.00
ATOM	26866	O	GLY	1786	57.186	108.609	99.290	0.00	0.00
ATOM	26867	N	GLU	1787	58.768	108.683	97.806	0.00	0.00
ATOM	26868	H	GLU	1787	59.738	108.875	97.602	0.00	0.00
ATOM	26869	CA	GLU	1787	57.916	108.245	96.694	0.00	0.00
ATOM	26870	HA	GLU	1787	56.936	108.022	97.117	0.00	0.00
ATOM	26871	CB	GLU	1787	57.593	109.439	95.710	0.00	0.00
ATOM	26872	HB2	GLU	1787	58.531	109.658	95.200	0.00	0.00
ATOM	26873	HB3	GLU	1787	57.098	108.937	94.879	0.00	0.00
ATOM	26874	CG	GLU	1787	56.736	110.578	96.213	0.00	0.00
ATOM	26875	HG2	GLU	1787	57.263	111.070	97.030	0.00	0.00
ATOM	26876	HG3	GLU	1787	56.697	111.352	95.446	0.00	0.00
ATOM	26877	CD	GLU	1787	55.287	110.172	96.589	0.00	0.00

ATOM	26878	OE1	GLU	1787	54.901	108.978	96.433	0.00	0.00
ATOM	26879	OE2	GLU	1787	54.475	111.042	96.939	0.00	0.00
ATOM	26880	C	GLU	1787	58.446	107.007	95.973	0.00	0.00
ATOM	26881	O	GLU	1787	57.913	106.576	94.982	0.00	0.00
ATOM	26882	N	GLU	1788	59.489	106.539	96.577	0.00	0.00
ATOM	26883	H	GLU	1788	59.784	107.083	97.376	0.00	0.00
ATOM	26884	CA	GLU	1788	60.412	105.519	96.019	0.00	0.00
ATOM	26885	HA	GLU	1788	60.821	105.857	95.067	0.00	0.00
ATOM	26886	CB	GLU	1788	61.664	105.260	96.982	0.00	0.00
ATOM	26887	HB2	GLU	1788	61.243	105.121	97.978	0.00	0.00
ATOM	26888	HB3	GLU	1788	62.195	104.373	96.638	0.00	0.00
ATOM	26889	CG	GLU	1788	62.688	106.424	97.035	0.00	0.00
ATOM	26890	HG2	GLU	1788	63.617	105.956	97.361	0.00	0.00
ATOM	26891	HG3	GLU	1788	62.831	106.771	96.011	0.00	0.00
ATOM	26892	CD	GLU	1788	62.336	107.729	97.764	0.00	0.00
ATOM	26893	OE1	GLU	1788	62.898	107.935	98.875	0.00	0.00
ATOM	26894	OE2	GLU	1788	61.613	108.592	97.190	0.00	0.00
ATOM	26895	C	GLU	1788	59.792	104.152	95.681	0.00	0.00
ATOM	26896	O	GLU	1788	59.352	103.495	96.624	0.00	0.00
ATOM	26897	N	VAL	1789	59.888	103.665	94.430	0.00	0.00
ATOM	26898	H	VAL	1789	60.454	104.070	93.698	0.00	0.00
ATOM	26899	CA	VAL	1789	59.138	102.394	94.049	0.00	0.00
ATOM	26900	HA	VAL	1789	58.428	102.246	94.863	0.00	0.00
ATOM	26901	CB	VAL	1789	58.302	102.665	92.795	0.00	0.00
ATOM	26902	HB	VAL	1789	57.818	101.793	92.356	0.00	0.00
ATOM	26903	CG1	VAL	1789	57.221	103.758	92.915	0.00	0.00

ATOM	26904	1HG1	VAL	1789	57.565	104.670	93.401	0.00	0.00
ATOM	26905	2HG1	VAL	1789	56.749	103.932	91.947	0.00	0.00
ATOM	26906	3HG1	VAL	1789	56.447	103.377	93.581	0.00	0.00
ATOM	26907	CG2	VAL	1789	59.147	103.073	91.586	0.00	0.00
ATOM	26908	1HG2	VAL	1789	58.543	103.042	90.679	0.00	0.00
ATOM	26909	2HG2	VAL	1789	59.564	104.070	91.726	0.00	0.00
ATOM	26910	3HG2	VAL	1789	60.010	102.427	91.420	0.00	0.00
ATOM	26911	C	VAL	1789	59.941	101.093	93.978	0.00	0.00
ATOM	26912	O	VAL	1789	61.026	100.987	93.361	0.00	0.00
ATOM	26913	N	LYS	1790	59.357	100.123	94.655	0.00	0.00
ATOM	26914	H	LYS	1790	58.451	100.301	95.065	0.00	0.00
ATOM	26915	CA	LYS	1790	59.858	98.746	94.830	0.00	0.00
ATOM	26916	HA	LYS	1790	60.575	98.600	94.022	0.00	0.00
ATOM	26917	CB	LYS	1790	60.398	98.529	96.267	0.00	0.00
ATOM	26918	HB2	LYS	1790	59.558	98.447	96.958	0.00	0.00
ATOM	26919	HB3	LYS	1790	60.818	99.517	96.457	0.00	0.00
ATOM	26920	CG	LYS	1790	61.344	97.389	96.400	0.00	0.00
ATOM	26921	HG2	LYS	1790	60.926	96.459	96.015	0.00	0.00
ATOM	26922	HG3	LYS	1790	62.258	97.586	95.841	0.00	0.00
ATOM	26923	CD	LYS	1790	61.928	97.261	97.855	0.00	0.00
ATOM	26924	HD2	LYS	1790	61.086	97.101	98.527	0.00	0.00
ATOM	26925	HD3	LYS	1790	62.587	96.395	97.927	0.00	0.00
ATOM	26926	CE	LYS	1790	62.738	98.494	98.307	0.00	0.00
ATOM	26927	HE2	LYS	1790	62.343	99.424	97.900	0.00	0.00
ATOM	26928	HE3	LYS	1790	62.852	98.523	99.391	0.00	0.00
ATOM	26929	NZ	LYS	1790	64.127	98.331	97.802	0.00	0.00

ATOM	26930	HZ1	LYS	1790	64.272	97.358	97.575	0.00	0.00
ATOM	26931	HZ2	LYS	1790	64.264	98.772	96.904	0.00	0.00
ATOM	26932	HZ3	LYS	1790	64.785	98.827	98.386	0.00	0.00
ATOM	26933	C	LYS	1790	58.749	97.717	94.463	0.00	0.00
ATOM	26934	O	LYS	1790	57.524	97.908	94.719	0.00	0.00
ATOM	26935	N	PHE	1791	59.128	96.521	94.148	0.00	0.00
ATOM	26936	H	PHE	1791	60.094	96.422	93.871	0.00	0.00
ATOM	26937	CA	PHE	1791	58.232	95.323	94.016	0.00	0.00
ATOM	26938	HA	PHE	1791	57.206	95.607	94.252	0.00	0.00
ATOM	26939	CB	PHE	1791	58.235	94.961	92.540	0.00	0.00
ATOM	26940	HB2	PHE	1791	57.874	95.828	91.986	0.00	0.00
ATOM	26941	HB3	PHE	1791	59.216	94.739	92.121	0.00	0.00
ATOM	26942	CG	PHE	1791	57.482	93.797	92.148	0.00	0.00
ATOM	26943	CD1	PHE	1791	56.087	93.906	91.982	0.00	0.00
ATOM	26944	HD1	PHE	1791	55.605	94.863	92.113	0.00	0.00
ATOM	26945	CE1	PHE	1791	55.325	92.807	91.699	0.00	0.00
ATOM	26946	HE1	PHE	1791	54.264	93.006	91.654	0.00	0.00
ATOM	26947	CZ	PHE	1791	55.936	91.492	91.686	0.00	0.00
ATOM	26948	HZ	PHE	1791	55.279	90.649	91.530	0.00	0.00
ATOM	26949	CE2	PHE	1791	57.287	91.378	92.051	0.00	0.00
ATOM	26950	HE2	PHE	1791	57.784	90.434	92.222	0.00	0.00
ATOM	26951	CD2	PHE	1791	58.065	92.511	92.237	0.00	0.00
ATOM	26952	HD2	PHE	1791	59.103	92.350	92.491	0.00	0.00
ATOM	26953	C	PHE	1791	58.646	94.110	94.901	0.00	0.00
ATOM	26954	O	PHE	1791	59.776	93.996	95.319	0.00	0.00
ATOM	26955	N	GLY	1792	57.609	93.298	95.283	0.00	0.00



ATOM	26956	H	GLY	1792	56.703	93.400	94.849	0.00	0.00
ATOM	26957	CA	GLY	1792	57.618	92.302	96.324	0.00	0.00
ATOM	26958	HA2	GLY	1792	57.882	91.402	95.769	0.00	0.00
ATOM	26959	HA3	GLY	1792	58.524	92.374	96.926	0.00	0.00
ATOM	26960	C	GLY	1792	56.365	92.164	97.077	0.00	0.00
ATOM	26961	O	GLY	1792	55.523	93.061	97.023	0.00	0.00
ATOM	26962	N	GLY	1793	56.321	91.205	98.003	0.00	0.00
ATOM	26963	H	GLY	1793	57.172	90.702	98.210	0.00	0.00
ATOM	26964	CA	GLY	1793	55.365	91.049	99.106	0.00	0.00
ATOM	26965	HA2	GLY	1793	54.396	90.899	98.630	0.00	0.00
ATOM	26966	HA3	GLY	1793	55.612	90.160	99.687	0.00	0.00
ATOM	26967	C	GLY	1793	55.201	92.322	99.941	0.00	0.00
ATOM	26968	O	GLY	1793	56.143	92.881	100.593	0.00	0.00
ATOM	26969	N	GLY	1794	53.974	92.826	99.869	0.00	0.00
ATOM	26970	H	GLY	1794	53.274	92.314	99.351	0.00	0.00
ATOM	26971	CA	GLY	1794	53.603	94.070	100.474	0.00	0.00
ATOM	26972	HA2	GLY	1794	52.529	94.212	100.353	0.00	0.00
ATOM	26973	HA3	GLY	1794	53.818	94.037	101.542	0.00	0.00
ATOM	26974	C	GLY	1794	54.203	95.358	99.906	0.00	0.00
ATOM	26975	O	GLY	1794	54.015	96.402	100.469	0.00	0.00
ATOM	26976	N	LYS	1795	54.814	95.383	98.724	0.00	0.00
ATOM	26977	H	LYS	1795	54.843	94.588	98.102	0.00	0.00
ATOM	26978	CA	LYS	1795	55.522	96.516	98.154	0.00	0.00
ATOM	26979	HA	LYS	1795	55.478	97.188	99.012	0.00	0.00
ATOM	26980	CB	LYS	1795	56.985	96.112	97.787	0.00	0.00
ATOM	26981	HB2	LYS	1795	57.003	95.591	96.829	0.00	0.00

ATOM	26982	HB3	LYS	1795	57.583	97.009	97.627	0.00	0.00
ATOM	26983	CG	LYS	1795	57.837	95.277	98.774	0.00	0.00
ATOM	26984	HG2	LYS	1795	57.458	94.281	99.002	0.00	0.00
ATOM	26985	HG3	LYS	1795	58.857	95.182	98.404	0.00	0.00
ATOM	26986	CD	LYS	1795	57.880	96.103	100.116	0.00	0.00
ATOM	26987	HD2	LYS	1795	58.343	97.063	99.886	0.00	0.00
ATOM	26988	HD3	LYS	1795	56.913	96.245	100.600	0.00	0.00
ATOM	26989	CE	LYS	1795	58.864	95.488	101.143	0.00	0.00
ATOM	26990	HE2	LYS	1795	59.887	95.718	100.844	0.00	0.00
ATOM	26991	HE3	LYS	1795	58.783	95.997	102.104	0.00	0.00
ATOM	26992	NZ	LYS	1795	58.559	94.013	101.352	0.00	0.00
ATOM	26993	HZ1	LYS	1795	57.698	93.968	101.879	0.00	0.00
ATOM	26994	HZ2	LYS	1795	58.526	93.542	100.460	0.00	0.00
ATOM	26995	HZ3	LYS	1795	59.120	93.578	102.071	0.00	0.00
ATOM	26996	C	LYS	1795	54.730	97.493	97.210	0.00	0.00
ATOM	26997	O	LYS	1795	53.509	97.542	97.320	0.00	0.00
ATOM	26998	N	VAL	1796	55.402	98.411	96.537	0.00	0.00
ATOM	26999	H	VAL	1796	56.405	98.298	96.506	0.00	0.00
ATOM	27000	CA	VAL	1796	54.843	99.692	96.219	0.00	0.00
ATOM	27001	HA	VAL	1796	53.993	99.885	96.873	0.00	0.00
ATOM	27002	CB	VAL	1796	56.029	100.814	96.121	0.00	0.00
ATOM	27003	HB	VAL	1796	56.639	100.573	95.251	0.00	0.00
ATOM	27004	CG1	VAL	1796	55.432	102.280	96.056	0.00	0.00
ATOM	27005	1HG1	VAL	1796	55.229	102.695	97.044	0.00	0.00
ATOM	27006	2HG1	VAL	1796	56.177	103.025	95.775	0.00	0.00
ATOM	27007	3HG1	VAL	1796	54.669	102.283	95.278	0.00	0.00

ATOM	27008	CG2	VAL	1796	56.961	100.825	97.332	0.00	0.00
ATOM	27009	1HG2	VAL	1796	57.485	99.874	97.421	0.00	0.00
ATOM	27010	2HG2	VAL	1796	57.712	101.613	97.278	0.00	0.00
ATOM	27011	3HG2	VAL	1796	56.273	101.088	98.136	0.00	0.00
ATOM	27012	C	VAL	1796	54.271	99.653	94.790	0.00	0.00
ATOM	27013	O	VAL	1796	53.171	100.163	94.557	0.00	0.00
ATOM	27014	N	ILE	1797	54.967	99.026	93.786	0.00	0.00
ATOM	27015	H	ILE	1797	55.741	98.423	94.028	0.00	0.00
ATOM	27016	CA	ILE	1797	54.520	98.850	92.455	0.00	0.00
ATOM	27017	HA	ILE	1797	54.258	99.872	92.181	0.00	0.00
ATOM	27018	CB	ILE	1797	55.659	98.411	91.516	0.00	0.00
ATOM	27019	HB	ILE	1797	56.005	97.423	91.820	0.00	0.00
ATOM	27020	CG2	ILE	1797	55.307	98.226	90.014	0.00	0.00
ATOM	27021	1HG2	ILE	1797	56.200	97.830	89.531	0.00	0.00
ATOM	27022	2HG2	ILE	1797	54.454	97.555	89.922	0.00	0.00
ATOM	27023	3HG2	ILE	1797	55.084	99.213	89.609	0.00	0.00
ATOM	27024	CG1	ILE	1797	56.859	99.360	91.503	0.00	0.00
ATOM	27025	2HG1	ILE	1797	56.628	100.280	90.967	0.00	0.00
ATOM	27026	3HG1	ILE	1797	56.974	99.633	92.552	0.00	0.00
ATOM	27027	CD1	ILE	1797	58.236	98.780	90.959	0.00	0.00
ATOM	27028	1HD1	ILE	1797	59.033	99.523	90.984	0.00	0.00
ATOM	27029	2HD1	ILE	1797	58.420	97.916	91.596	0.00	0.00
ATOM	27030	3HD1	ILE	1797	58.161	98.338	89.965	0.00	0.00
ATOM	27031	C	ILE	1797	53.250	98.000	92.408	0.00	0.00
ATOM	27032	O	ILE	1797	53.284	96.837	91.939	0.00	0.00
ATOM	27033	N	ARG	1798	52.128	98.579	92.779	0.00	0.00

ATOM	27034	H	ARG	1798	52.264	99.452	93.269	0.00	0.00
ATOM	27035	CA	ARG	1798	50.826	97.942	92.822	0.00	0.00
ATOM	27036	HA	ARG	1798	50.889	97.032	92.224	0.00	0.00
ATOM	27037	CB	ARG	1798	50.257	97.536	94.211	0.00	0.00
ATOM	27038	HB2	ARG	1798	50.240	98.449	94.806	0.00	0.00
ATOM	27039	HB3	ARG	1798	49.322	97.022	93.989	0.00	0.00
ATOM	27040	CG	ARG	1798	51.182	96.461	94.895	0.00	0.00
ATOM	27041	HG2	ARG	1798	51.091	95.593	94.241	0.00	0.00
ATOM	27042	HG3	ARG	1798	52.181	96.878	95.027	0.00	0.00
ATOM	27043	CD	ARG	1798	50.772	95.892	96.209	0.00	0.00
ATOM	27044	HD2	ARG	1798	49.765	95.482	96.133	0.00	0.00
ATOM	27045	HD3	ARG	1798	51.486	95.089	96.393	0.00	0.00
ATOM	27046	NE	ARG	1798	50.789	96.901	97.277	0.00	0.00
ATOM	27047	HE	ARG	1798	51.586	97.520	97.310	0.00	0.00
ATOM	27048	CZ	ARG	1798	50.031	96.926	98.374	0.00	0.00
ATOM	27049	NH1	ARG	1798	49.503	95.777	98.782	0.00	0.00
ATOM	27050	1HH1	ARG	1798	48.684	95.840	99.370	0.00	0.00
ATOM	27051	2HH1	ARG	1798	49.871	94.927	98.381	0.00	0.00
ATOM	27052	NH2	ARG	1798	49.895	97.943	99.133	0.00	0.00
ATOM	27053	1HH2	ARG	1798	49.289	97.877	99.938	0.00	0.00
ATOM	27054	2HH2	ARG	1798	50.406	98.791	98.933	0.00	0.00
ATOM	27055	C	ARG	1798	49.816	98.816	92.041	0.00	0.00
ATOM	27056	O	ARG	1798	49.954	100.027	91.963	0.00	0.00
ATOM	27057	N	ASP	1799	48.880	98.203	91.291	0.00	0.00
ATOM	27058	H	ASP	1799	48.798	97.197	91.301	0.00	0.00
ATOM	27059	CA	ASP	1799	47.782	98.884	90.548	0.00	0.00

ATOM	27060	HA	ASP	1799	48.261	99.466	89.760	0.00	0.00
ATOM	27061	CB	ASP	1799	46.736	97.900	89.893	0.00	0.00
ATOM	27062	HB2	ASP	1799	47.244	97.201	89.227	0.00	0.00
ATOM	27063	HB3	ASP	1799	46.241	97.290	90.649	0.00	0.00
ATOM	27064	CG	ASP	1799	45.722	98.655	89.008	0.00	0.00
ATOM	27065	OD1	ASP	1799	46.061	99.607	88.235	0.00	0.00
ATOM	27066	OD2	ASP	1799	44.541	98.366	89.198	0.00	0.00
ATOM	27067	C	ASP	1799	46.903	99.813	91.392	0.00	0.00
ATOM	27068	O	ASP	1799	46.624	99.461	92.517	0.00	0.00
ATOM	27069	N	GLY	1800	46.510	101.013	90.920	0.00	0.00
ATOM	27070	H	GLY	1800	46.801	101.208	89.972	0.00	0.00
ATOM	27071	CA	GLY	1800	46.033	102.123	91.775	0.00	0.00
ATOM	27072	HA2	GLY	1800	45.498	102.832	91.144	0.00	0.00
ATOM	27073	HA3	GLY	1800	45.383	101.737	92.561	0.00	0.00
ATOM	27074	C	GLY	1800	47.087	102.926	92.511	0.00	0.00
ATOM	27075	O	GLY	1800	46.946	104.109	92.711	0.00	0.00
ATOM	27076	N	MET	1801	48.216	102.280	92.794	0.00	0.00
ATOM	27077	H	MET	1801	48.334	101.291	92.628	0.00	0.00
ATOM	27078	CA	MET	1801	49.360	102.815	93.593	0.00	0.00
ATOM	27079	HA	MET	1801	49.057	103.804	93.939	0.00	0.00
ATOM	27080	CB	MET	1801	49.785	101.868	94.696	0.00	0.00
ATOM	27081	HB2	MET	1801	50.113	100.941	94.227	0.00	0.00
ATOM	27082	HB3	MET	1801	50.526	102.443	95.253	0.00	0.00
ATOM	27083	CG	MET	1801	48.634	101.614	95.645	0.00	0.00
ATOM	27084	HG2	MET	1801	48.493	102.479	96.294	0.00	0.00
ATOM	27085	HG3	MET	1801	47.761	101.357	95.046	0.00	0.00

ATOM	27086	SD	MET	1801	49.034	100.184	96.589	0.00	0.00
ATOM	27087	CE	MET	1801	47.827	99.042	95.834	0.00	0.00
ATOM	27088	HE1	MET	1801	47.888	98.031	96.237	0.00	0.00
ATOM	27089	HE2	MET	1801	46.840	99.453	96.045	0.00	0.00
ATOM	27090	HE3	MET	1801	47.953	98.938	94.756	0.00	0.00
ATOM	27091	C	MET	1801	50.561	103.074	92.688	0.00	0.00
ATOM	27092	O	MET	1801	50.491	103.863	91.740	0.00	0.00
ATOM	27093	N	GLY	1802	51.799	102.559	92.959	0.00	0.00
ATOM	27094	H	GLY	1802	51.777	101.812	93.639	0.00	0.00
ATOM	27095	CA	GLY	1802	53.087	102.875	92.170	0.00	0.00
ATOM	27096	HA2	GLY	1802	53.291	103.945	92.207	0.00	0.00
ATOM	27097	HA3	GLY	1802	53.948	102.555	92.757	0.00	0.00
ATOM	27098	C	GLY	1802	53.226	102.318	90.790	0.00	0.00
ATOM	27099	O	GLY	1802	54.076	102.701	90.017	0.00	0.00
ATOM	27100	N	GLN	1803	52.260	101.503	90.426	0.00	0.00
ATOM	27101	H	GLN	1803	51.549	101.372	91.131	0.00	0.00
ATOM	27102	CA	GLN	1803	51.873	101.135	89.048	0.00	0.00
ATOM	27103	HA	GLN	1803	52.627	101.389	88.303	0.00	0.00
ATOM	27104	CB	GLN	1803	51.602	99.585	88.929	0.00	0.00
ATOM	27105	HB2	GLN	1803	52.448	99.150	89.462	0.00	0.00
ATOM	27106	HB3	GLN	1803	50.753	99.261	89.530	0.00	0.00
ATOM	27107	CG	GLN	1803	51.332	99.125	87.465	0.00	0.00
ATOM	27108	HG2	GLN	1803	50.542	99.691	86.970	0.00	0.00
ATOM	27109	HG3	GLN	1803	52.206	99.269	86.830	0.00	0.00
ATOM	27110	CD	GLN	1803	50.934	97.673	87.320	0.00	0.00
ATOM	27111	OE1	GLN	1803	51.762	96.759	87.246	0.00	0.00

ATOM	27112	NE2	GLN	1803	49.778	97.369	86.846	0.00	0.00
ATOM	27113	1HE2	GLN	1803	49.397	96.479	87.133	0.00	0.00
ATOM	27114	2HE2	GLN	1803	49.138	98.143	86.743	0.00	0.00
ATOM	27115	C	GLN	1803	50.554	101.742	88.750	0.00	0.00
ATOM	27116	O	GLN	1803	49.627	101.763	89.542	0.00	0.00
ATOM	27117	N	GLY	1804	50.441	102.449	87.614	0.00	0.00
ATOM	27118	H	GLY	1804	51.264	102.530	87.034	0.00	0.00
ATOM	27119	CA	GLY	1804	49.322	103.300	87.254	0.00	0.00
ATOM	27120	HA2	GLY	1804	48.550	103.197	88.016	0.00	0.00
ATOM	27121	HA3	GLY	1804	49.562	104.361	87.185	0.00	0.00
ATOM	27122	C	GLY	1804	48.542	103.012	86.028	0.00	0.00
ATOM	27123	O	GLY	1804	48.737	102.033	85.246	0.00	0.00
ATOM	27124	N	GLN	1805	47.551	103.871	85.768	0.00	0.00
ATOM	27125	H	GLN	1805	47.350	104.690	86.324	0.00	0.00
ATOM	27126	CA	GLN	1805	46.384	103.420	84.952	0.00	0.00
ATOM	27127	HA	GLN	1805	46.709	102.420	84.665	0.00	0.00
ATOM	27128	CB	GLN	1805	45.118	103.444	85.779	0.00	0.00
ATOM	27129	HB2	GLN	1805	45.058	104.453	86.186	0.00	0.00
ATOM	27130	HB3	GLN	1805	44.187	103.300	85.230	0.00	0.00
ATOM	27131	CG	GLN	1805	45.185	102.412	86.910	0.00	0.00
ATOM	27132	HG2	GLN	1805	45.180	101.468	86.366	0.00	0.00
ATOM	27133	HG3	GLN	1805	46.116	102.496	87.471	0.00	0.00
ATOM	27134	CD	GLN	1805	44.025	102.461	87.929	0.00	0.00
ATOM	27135	OE1	GLN	1805	43.189	103.343	87.945	0.00	0.00
ATOM	27136	NE2	GLN	1805	44.046	101.439	88.805	0.00	0.00
ATOM	27137	1HE2	GLN	1805	43.336	101.418	89.524	0.00	0.00

ATOM	27138	2HE2	GLN	1805	44.819	100.800	88.691	0.00	0.00
ATOM	27139	C	GLN	1805	46.261	104.216	83.674	0.00	0.00
ATOM	27140	O	GLN	1805	45.161	104.372	83.212	0.00	0.00
ATOM	27141	N	MET	1806	47.405	104.552	83.116	0.00	0.00
ATOM	27142	H	MET	1806	48.237	104.239	83.595	0.00	0.00
ATOM	27143	CA	MET	1806	47.586	105.113	81.817	0.00	0.00
ATOM	27144	HA	MET	1806	46.807	105.842	81.591	0.00	0.00
ATOM	27145	CB	MET	1806	48.882	105.924	81.847	0.00	0.00
ATOM	27146	HB2	MET	1806	48.993	106.521	80.942	0.00	0.00
ATOM	27147	HB3	MET	1806	48.810	106.608	82.692	0.00	0.00
ATOM	27148	CG	MET	1806	50.151	105.033	81.975	0.00	0.00
ATOM	27149	HG2	MET	1806	50.034	104.128	81.378	0.00	0.00
ATOM	27150	HG3	MET	1806	51.005	105.658	81.715	0.00	0.00
ATOM	27151	SD	MET	1806	50.617	104.548	83.619	0.00	0.00
ATOM	27152	CE	MET	1806	51.074	106.074	84.542	0.00	0.00
ATOM	27153	HE1	MET	1806	50.225	106.757	84.536	0.00	0.00
ATOM	27154	HE2	MET	1806	51.428	105.838	85.546	0.00	0.00
ATOM	27155	HE3	MET	1806	51.909	106.555	84.032	0.00	0.00
ATOM	27156	C	MET	1806	47.512	104.096	80.761	0.00	0.00
ATOM	27157	O	MET	1806	47.662	102.879	80.945	0.00	0.00
ATOM	27158	N	LEU	1807	47.026	104.498	79.561	0.00	0.00
ATOM	27159	H	LEU	1807	46.601	105.401	79.410	0.00	0.00
ATOM	27160	CA	LEU	1807	46.773	103.466	78.554	0.00	0.00
ATOM	27161	HA	LEU	1807	46.188	102.612	78.896	0.00	0.00
ATOM	27162	CB	LEU	1807	46.153	104.241	77.374	0.00	0.00
ATOM	27163	HB2	LEU	1807	46.817	104.940	76.865	0.00	0.00



ATOM 27164	HB3	LEU	1807	46.083	103.483	76.594	0.00	0.00
ATOM 27165	CG	LEU	1807	44.728	104.851	77.451	0.00	0.00
ATOM 27166	HG	LEU	1807	44.841	105.745	78.064	0.00	0.00
ATOM 27167	CD1	LEU	1807	44.283	105.221	76.023	0.00	0.00
ATOM 27168	1HD1	LEU	1807	44.974	105.916	75.546	0.00	0.00
ATOM 27169	2HD1	LEU	1807	44.190	104.279	75.483	0.00	0.00
ATOM 27170	3HD1	LEU	1807	43.331	105.752	76.026	0.00	0.00
ATOM 27171	CD2	LEU	1807	43.803	103.912	78.209	0.00	0.00
ATOM 27172	1HD2	LEU	1807	43.867	102.906	77.794	0.00	0.00
ATOM 27173	2HD2	LEU	1807	44.068	103.848	79.264	0.00	0.00
ATOM 27174	3HD2	LEU	1807	42.816	104.361	78.097	0.00	0.00
ATOM 27175	C	LEU	1807	48.087	102.791	78.124	0.00	0.00
ATOM 27176	O	LEU	1807	49.148	103.439	78.100	0.00	0.00
ATOM 27177	N	ALA	1808	48.154	101.605	77.637	0.00	0.00
ATOM 27178	H	ALA	1808	47.312	101.131	77.343	0.00	0.00
ATOM 27179	CA	ALA	1808	49.428	100.809	77.582	0.00	0.00
ATOM 27180	HA	ALA	1808	49.869	100.662	78.568	0.00	0.00
ATOM 27181	CB	ALA	1808	49.049	99.463	76.977	0.00	0.00
ATOM 27182	HB1	ALA	1808	49.901	98.789	77.070	0.00	0.00
ATOM 27183	HB2	ALA	1808	48.178	99.064	77.497	0.00	0.00
ATOM 27184	HB3	ALA	1808	48.818	99.633	75.926	0.00	0.00
ATOM 27185	C	ALA	1808	50.743	101.346	76.798	0.00	0.00
ATOM 27186	O	ALA	1808	51.890	101.084	77.020	0.00	0.00
ATOM 27187	N	ALA	1809	50.499	102.232	75.830	0.00	0.00
ATOM 27188	H	ALA	1809	49.517	102.332	75.615	0.00	0.00
ATOM 27189	CA	ALA	1809	51.441	102.999	75.025	0.00	0.00

ATOM	27190	HA	ALA	1809	52.278	102.358	74.749	0.00	0.00
ATOM	27191	CB	ALA	1809	50.714	103.411	73.704	0.00	0.00
ATOM	27192	HB1	ALA	1809	49.733	103.876	73.807	0.00	0.00
ATOM	27193	HB2	ALA	1809	51.454	103.922	73.087	0.00	0.00
ATOM	27194	HB3	ALA	1809	50.411	102.489	73.209	0.00	0.00
ATOM	27195	C	ALA	1809	52.128	104.151	75.734	0.00	0.00
ATOM	27196	O	ALA	1809	53.179	104.658	75.322	0.00	0.00
ATOM	27197	N	ASP	1810	51.397	104.625	76.780	0.00	0.00
ATOM	27198	H	ASP	1810	50.551	104.212	77.145	0.00	0.00
ATOM	27199	CA	ASP	1810	51.868	105.842	77.506	0.00	0.00
ATOM	27200	HA	ASP	1810	52.431	106.465	76.810	0.00	0.00
ATOM	27201	CB	ASP	1810	50.654	106.631	77.999	0.00	0.00
ATOM	27202	HB2	ASP	1810	50.082	106.937	77.124	0.00	0.00
ATOM	27203	HB3	ASP	1810	50.004	105.952	78.551	0.00	0.00
ATOM	27204	CG	ASP	1810	50.853	107.887	78.812	0.00	0.00
ATOM	27205	OD1	ASP	1810	51.641	108.759	78.317	0.00	0.00
ATOM	27206	OD2	ASP	1810	50.113	108.120	79.763	0.00	0.00
ATOM	27207	C	ASP	1810	52.743	105.502	78.737	0.00	0.00
ATOM	27208	O	ASP	1810	53.548	106.278	79.286	0.00	0.00
ATOM	27209	N	CYS	1811	52.713	104.246	79.157	0.00	0.00
ATOM	27210	H	CYS	1811	51.994	103.622	78.821	0.00	0.00
ATOM	27211	CA	CYS	1811	53.646	103.683	80.149	0.00	0.00
ATOM	27212	HA	CYS	1811	54.016	104.421	80.861	0.00	0.00
ATOM	27213	CB	CYS	1811	52.874	102.672	81.136	0.00	0.00
ATOM	27214	HB2	CYS	1811	53.645	102.079	81.629	0.00	0.00
ATOM	27215	HB3	CYS	1811	52.372	103.279	81.890	0.00	0.00

ATOM	27216	SG	CYS	1811	51.652	101.525	80.378	0.00	0.00
ATOM	27217	HG	CYS	1811	52.212	101.142	79.228	0.00	0.00
ATOM	27218	C	CYS	1811	54.833	102.987	79.441	0.00	0.00
ATOM	27219	O	CYS	1811	54.602	102.579	78.293	0.00	0.00
ATOM	27220	N	VAL	1812	55.963	102.745	80.092	0.00	0.00
ATOM	27221	H	VAL	1812	56.072	103.039	81.052	0.00	0.00
ATOM	27222	CA	VAL	1812	57.098	102.001	79.521	0.00	0.00
ATOM	27223	HA	VAL	1812	57.251	102.394	78.516	0.00	0.00
ATOM	27224	CB	VAL	1812	58.456	102.159	80.293	0.00	0.00
ATOM	27225	HB	VAL	1812	59.208	101.510	79.844	0.00	0.00
ATOM	27226	CG1	VAL	1812	58.927	103.608	80.100	0.00	0.00
ATOM	27227	1HG1	VAL	1812	58.318	104.266	80.720	0.00	0.00
ATOM	27228	2HG1	VAL	1812	59.952	103.658	80.466	0.00	0.00
ATOM	27229	3HG1	VAL	1812	58.963	103.989	79.079	0.00	0.00
ATOM	27230	CG2	VAL	1812	58.421	101.858	81.796	0.00	0.00
ATOM	27231	1HG2	VAL	1812	59.403	101.931	82.263	0.00	0.00
ATOM	27232	2HG2	VAL	1812	57.806	102.627	82.264	0.00	0.00
ATOM	27233	3HG2	VAL	1812	58.034	100.854	81.974	0.00	0.00
ATOM	27234	C	VAL	1812	56.747	100.453	79.439	0.00	0.00
ATOM	27235	O	VAL	1812	55.835	100.004	80.140	0.00	0.00
ATOM	27236	N	ASP	1813	57.544	99.678	78.660	0.00	0.00
ATOM	27237	H	ASP	1813	58.354	100.115	78.244	0.00	0.00
ATOM	27238	CA	ASP	1813	57.359	98.254	78.396	0.00	0.00
ATOM	27239	HA	ASP	1813	56.313	98.070	78.640	0.00	0.00
ATOM	27240	CB	ASP	1813	57.707	97.887	76.935	0.00	0.00
ATOM	27241	HB2	ASP	1813	58.738	98.217	76.807	0.00	0.00

ATOM	27242	HB3	ASP	1813	57.607	96.804	76.860	0.00	0.00
ATOM	27243	CG	ASP	1813	56.790	98.670	75.986	0.00	0.00
ATOM	27244	OD1	ASP	1813	55.575	98.684	76.218	0.00	0.00
ATOM	27245	OD2	ASP	1813	57.243	99.280	74.994	0.00	0.00
ATOM	27246	C	ASP	1813	58.281	97.417	79.393	0.00	0.00
ATOM	27247	O	ASP	1813	57.978	96.299	79.807	0.00	0.00
ATOM	27248	N	LEU	1814	59.456	98.022	79.723	0.00	0.00
ATOM	27249	H	LEU	1814	59.809	98.823	79.218	0.00	0.00
ATOM	27250	CA	LEU	1814	60.355	97.524	80.773	0.00	0.00
ATOM	27251	HA	LEU	1814	59.856	96.862	81.480	0.00	0.00
ATOM	27252	CB	LEU	1814	61.519	96.670	80.255	0.00	0.00
ATOM	27253	HB2	LEU	1814	61.046	95.860	79.698	0.00	0.00
ATOM	27254	HB3	LEU	1814	61.916	97.156	79.364	0.00	0.00
ATOM	27255	CG	LEU	1814	62.508	95.947	81.136	0.00	0.00
ATOM	27256	HG	LEU	1814	62.028	95.825	82.107	0.00	0.00
ATOM	27257	CD1	LEU	1814	63.088	94.672	80.532	0.00	0.00
ATOM	27258	1HD1	LEU	1814	63.568	94.928	79.587	0.00	0.00
ATOM	27259	2HD1	LEU	1814	63.916	94.338	81.157	0.00	0.00
ATOM	27260	3HD1	LEU	1814	62.318	93.919	80.367	0.00	0.00
ATOM	27261	CD2	LEU	1814	63.769	96.764	81.450	0.00	0.00
ATOM	27262	1HD2	LEU	1814	63.469	97.696	81.930	0.00	0.00
ATOM	27263	2HD2	LEU	1814	64.514	96.265	82.069	0.00	0.00
ATOM	27264	3HD2	LEU	1814	64.176	97.048	80.479	0.00	0.00
ATOM	27265	C	LEU	1814	60.765	98.748	81.680	0.00	0.00
ATOM	27266	O	LEU	1814	60.883	99.877	81.163	0.00	0.00
ATOM	27267	N	VAL	1815	60.983	98.449	82.940	0.00	0.00

ATOM	27268	H	VAL	1815	60.879	97.484	83.217	0.00	0.00
ATOM	27269	CA	VAL	1815	61.595	99.350	83.959	0.00	0.00
ATOM	27270	HA	VAL	1815	62.067	100.107	83.333	0.00	0.00
ATOM	27271	CB	VAL	1815	60.553	100.102	84.772	0.00	0.00
ATOM	27272	HB	VAL	1815	59.810	100.480	84.069	0.00	0.00
ATOM	27273	CG1	VAL	1815	59.860	99.363	85.915	0.00	0.00
ATOM	27274	1HG1	VAL	1815	59.213	98.547	85.595	0.00	0.00
ATOM	27275	2HG1	VAL	1815	60.558	98.885	86.603	0.00	0.00
ATOM	27276	3HG1	VAL	1815	59.202	100.113	86.353	0.00	0.00
ATOM	27277	CG2	VAL	1815	61.188	101.343	85.437	0.00	0.00
ATOM	27278	1HG2	VAL	1815	60.432	102.109	85.606	0.00	0.00
ATOM	27279	2HG2	VAL	1815	61.739	101.028	86.324	0.00	0.00
ATOM	27280	3HG2	VAL	1815	61.872	101.894	84.792	0.00	0.00
ATOM	27281	C	VAL	1815	62.724	98.715	84.752	0.00	0.00
ATOM	27282	O	VAL	1815	62.618	97.613	85.267	0.00	0.00
ATOM	27283	N	LEU	1816	63.869	99.446	84.759	0.00	0.00
ATOM	27284	H	LEU	1816	63.823	100.361	84.334	0.00	0.00
ATOM	27285	CA	LEU	1816	65.043	99.161	85.572	0.00	0.00
ATOM	27286	HA	LEU	1816	64.956	98.129	85.914	0.00	0.00
ATOM	27287	CB	LEU	1816	66.338	99.209	84.781	0.00	0.00
ATOM	27288	HB2	LEU	1816	66.171	99.111	83.709	0.00	0.00
ATOM	27289	HB3	LEU	1816	66.829	100.179	84.865	0.00	0.00
ATOM	27290	CG	LEU	1816	67.428	98.116	85.015	0.00	0.00
ATOM	27291	HG	LEU	1816	66.996	97.255	84.504	0.00	0.00
ATOM	27292	CD1	LEU	1816	68.786	98.495	84.353	0.00	0.00
ATOM	27293	1HD1	LEU	1816	69.250	99.307	84.912	0.00	0.00

ATOM	27294	2HD1	LEU	1816	69.469	97.646	84.371	0.00	0.00
ATOM	27295	3HD1	LEU	1816	68.713	98.805	83.310	0.00	0.00
ATOM	27296	CD2	LEU	1816	67.606	97.810	86.514	0.00	0.00
ATOM	27297	1HD2	LEU	1816	67.856	98.676	87.127	0.00	0.00
ATOM	27298	2HD2	LEU	1816	66.694	97.330	86.870	0.00	0.00
ATOM	27299	3HD2	LEU	1816	68.421	97.087	86.498	0.00	0.00
ATOM	27300	C	LEU	1816	64.918	100.082	86.842	0.00	0.00
ATOM	27301	O	LEU	1816	64.767	101.295	86.718	0.00	0.00
ATOM	27302	N	THR	1817	64.819	99.499	88.045	0.00	0.00
ATOM	27303	H	THR	1817	65.027	98.520	88.182	0.00	0.00
ATOM	27304	CA	THR	1817	64.399	100.110	89.302	0.00	0.00
ATOM	27305	HA	THR	1817	64.047	101.123	89.105	0.00	0.00
ATOM	27306	CB	THR	1817	63.189	99.467	89.936	0.00	0.00
ATOM	27307	HB	THR	1817	63.004	99.839	90.943	0.00	0.00
ATOM	27308	CG2	THR	1817	61.975	99.784	89.197	0.00	0.00
ATOM	27309	1HG2	THR	1817	61.105	99.466	89.771	0.00	0.00
ATOM	27310	2HG2	THR	1817	61.931	100.837	88.921	0.00	0.00
ATOM	27311	3HG2	THR	1817	61.969	99.178	88.290	0.00	0.00
ATOM	27312	OG1	THR	1817	63.332	98.058	90.123	0.00	0.00
ATOM	27313	HG1	THR	1817	63.510	97.704	89.249	0.00	0.00
ATOM	27314	C	THR	1817	65.570	100.092	90.259	0.00	0.00
ATOM	27315	O	THR	1817	66.170	99.111	90.567	0.00	0.00
ATOM	27316	N	ASN	1818	65.924	101.228	90.890	0.00	0.00
ATOM	27317	H	ASN	1818	65.431	102.027	90.517	0.00	0.00
ATOM	27318	CA	ASN	1818	66.988	101.439	91.905	0.00	0.00
ATOM	27319	HA	ASN	1818	67.099	102.486	92.187	0.00	0.00

ATOM	27320	CB	ASN	1818	66.597	100.731	93.232	0.00	0.00
ATOM	27321	HB2	ASN	1818	65.518	100.882	93.267	0.00	0.00
ATOM	27322	HB3	ASN	1818	66.790	99.667	93.096	0.00	0.00
ATOM	27323	CG	ASN	1818	67.280	101.203	94.503	0.00	0.00
ATOM	27324	OD1	ASN	1818	67.876	100.454	95.252	0.00	0.00
ATOM	27325	ND2	ASN	1818	67.195	102.446	94.892	0.00	0.00
ATOM	27326	1HD2	ASN	1818	67.581	102.722	95.784	0.00	0.00
ATOM	27327	2HD2	ASN	1818	66.465	103.037	94.520	0.00	0.00
ATOM	27328	C	ASN	1818	68.469	101.050	91.538	0.00	0.00
ATOM	27329	O	ASN	1818	69.203	100.357	92.283	0.00	0.00
ATOM	27330	N	ALA	1819	68.936	101.597	90.404	0.00	0.00
ATOM	27331	H	ALA	1819	68.341	102.263	89.931	0.00	0.00
ATOM	27332	CA	ALA	1819	70.240	101.251	89.863	0.00	0.00
ATOM	27333	HA	ALA	1819	70.670	100.343	90.287	0.00	0.00
ATOM	27334	CB	ALA	1819	70.052	100.987	88.285	0.00	0.00
ATOM	27335	HB1	ALA	1819	70.997	100.898	87.749	0.00	0.00
ATOM	27336	HB2	ALA	1819	69.305	100.197	88.213	0.00	0.00
ATOM	27337	HB3	ALA	1819	69.408	101.805	87.963	0.00	0.00
ATOM	27338	C	ALA	1819	71.196	102.390	90.231	0.00	0.00
ATOM	27339	O	ALA	1819	70.811	103.538	90.397	0.00	0.00
ATOM	27340	N	LEU	1820	72.542	102.141	90.177	0.00	0.00
ATOM	27341	H	LEU	1820	72.832	101.175	90.223	0.00	0.00
ATOM	27342	CA	LEU	1820	73.537	103.199	89.776	0.00	0.00
ATOM	27343	HA	LEU	1820	73.065	104.176	89.873	0.00	0.00
ATOM	27344	CB	LEU	1820	74.656	103.279	90.796	0.00	0.00
ATOM	27345	HB2	LEU	1820	74.222	103.730	91.688	0.00	0.00

ATOM	27346	HB3	LEU	1820	75.031	102.272	90.980	0.00	0.00
ATOM	27347	CG	LEU	1820	75.926	104.115	90.443	0.00	0.00
ATOM	27348	HG	LEU	1820	76.316	103.677	89.525	0.00	0.00
ATOM	27349	CD1	LEU	1820	75.606	105.539	90.218	0.00	0.00
ATOM	27350	1HD1	LEU	1820	75.399	105.991	91.188	0.00	0.00
ATOM	27351	2HD1	LEU	1820	76.407	106.046	89.680	0.00	0.00
ATOM	27352	3HD1	LEU	1820	74.703	105.525	89.607	0.00	0.00
ATOM	27353	CD2	LEU	1820	77.017	103.855	91.492	0.00	0.00
ATOM	27354	1HD2	LEU	1820	77.876	104.502	91.317	0.00	0.00
ATOM	27355	2HD2	LEU	1820	76.573	104.102	92.456	0.00	0.00
ATOM	27356	3HD2	LEU	1820	77.296	102.803	91.556	0.00	0.00
ATOM	27357	C	LEU	1820	74.038	102.981	88.374	0.00	0.00
ATOM	27358	O	LEU	1820	74.365	101.900	87.948	0.00	0.00
ATOM	27359	N	ILE	1821	74.103	104.073	87.568	0.00	0.00
ATOM	27360	H	ILE	1821	73.663	104.941	87.836	0.00	0.00
ATOM	27361	CA	ILE	1821	74.675	104.054	86.230	0.00	0.00
ATOM	27362	HA	ILE	1821	74.549	103.089	85.740	0.00	0.00
ATOM	27363	CB	ILE	1821	73.945	105.288	85.504	0.00	0.00
ATOM	27364	HB	ILE	1821	74.043	106.035	86.293	0.00	0.00
ATOM	27365	CG2	ILE	1821	74.679	105.894	84.315	0.00	0.00
ATOM	27366	1HG2	ILE	1821	75.638	106.310	84.624	0.00	0.00
ATOM	27367	2HG2	ILE	1821	74.881	105.086	83.612	0.00	0.00
ATOM	27368	3HG2	ILE	1821	74.209	106.782	83.892	0.00	0.00
ATOM	27369	CG1	ILE	1821	72.514	104.966	85.125	0.00	0.00
ATOM	27370	2HG1	ILE	1821	72.497	104.190	84.359	0.00	0.00
ATOM	27371	3HG1	ILE	1821	72.011	104.458	85.948	0.00	0.00



ATOM	27372	CD1	ILE	1821	71.644	106.209	84.926	0.00	0.00
ATOM	27373	1HD1	ILE	1821	71.265	106.501	85.906	0.00	0.00
ATOM	27374	2HD1	ILE	1821	72.165	107.059	84.485	0.00	0.00
ATOM	27375	3HD1	ILE	1821	70.821	106.009	84.239	0.00	0.00
ATOM	27376	C	ILE	1821	76.168	104.393	86.304	0.00	0.00
ATOM	27377	O	ILE	1821	76.711	105.240	86.976	0.00	0.00
ATOM	27378	N	VAL	1822	76.892	103.660	85.495	0.00	0.00
ATOM	27379	H	VAL	1822	76.442	103.051	84.826	0.00	0.00
ATOM	27380	CA	VAL	1822	78.238	104.087	85.040	0.00	0.00
ATOM	27381	HA	VAL	1822	78.494	105.031	85.519	0.00	0.00
ATOM	27382	CB	VAL	1822	79.328	102.985	85.584	0.00	0.00
ATOM	27383	HB	VAL	1822	78.969	101.977	85.375	0.00	0.00
ATOM	27384	CG1	VAL	1822	80.781	103.266	85.038	0.00	0.00
ATOM	27385	1HG1	VAL	1822	81.494	102.616	85.545	0.00	0.00
ATOM	27386	2HG1	VAL	1822	80.821	103.046	83.971	0.00	0.00
ATOM	27387	3HG1	VAL	1822	81.074	104.307	85.170	0.00	0.00
ATOM	27388	CG2	VAL	1822	79.437	103.085	87.112	0.00	0.00
ATOM	27389	1HG2	VAL	1822	80.107	102.305	87.474	0.00	0.00
ATOM	27390	2HG2	VAL	1822	79.741	104.086	87.417	0.00	0.00
ATOM	27391	3HG2	VAL	1822	78.447	103.081	87.569	0.00	0.00
ATOM	27392	C	VAL	1822	78.304	104.337	83.591	0.00	0.00
ATOM	27393	O	VAL	1822	78.242	103.455	82.726	0.00	0.00
ATOM	27394	N	ASP	1823	78.625	105.583	83.217	0.00	0.00
ATOM	27395	H	ASP	1823	78.607	106.331	83.895	0.00	0.00
ATOM	27396	CA	ASP	1823	78.644	106.034	81.781	0.00	0.00
ATOM	27397	HA	ASP	1823	78.921	105.222	81.108	0.00	0.00

ATOM	27398	CB	ASP	1823	77.237	106.381	81.428	0.00	0.00
ATOM	27399	HB2	ASP	1823	77.021	107.443	81.545	0.00	0.00
ATOM	27400	HB3	ASP	1823	76.601	105.797	82.093	0.00	0.00
ATOM	27401	CG	ASP	1823	76.904	106.093	79.927	0.00	0.00
ATOM	27402	OD1	ASP	1823	77.741	105.464	79.183	0.00	0.00
ATOM	27403	OD2	ASP	1823	75.748	106.310	79.459	0.00	0.00
ATOM	27404	C	ASP	1823	79.544	107.306	81.580	0.00	0.00
ATOM	27405	O	ASP	1823	79.971	108.001	82.509	0.00	0.00
ATOM	27406	N	HIE	1824	79.793	107.582	80.339	0.00	0.00
ATOM	27407	H	HIE	1824	79.436	107.042	79.563	0.00	0.00
ATOM	27408	CA	HIE	1824	80.827	108.572	80.075	0.00	0.00
ATOM	27409	HA	HIE	1824	81.761	108.316	80.576	0.00	0.00
ATOM	27410	CB	HIE	1824	81.130	108.512	78.595	0.00	0.00
ATOM	27411	HB2	HIE	1824	82.044	109.079	78.418	0.00	0.00
ATOM	27412	HB3	HIE	1824	81.392	107.477	78.379	0.00	0.00
ATOM	27413	CG	HIE	1824	80.057	108.973	77.576	0.00	0.00
ATOM	27414	ND1	HIE	1824	79.888	110.226	77.042	0.00	0.00
ATOM	27415	CE1	HIE	1824	78.782	110.243	76.227	0.00	0.00
ATOM	27416	HE1	HIE	1824	78.380	111.123	75.747	0.00	0.00
ATOM	27417	NE2	HIE	1824	78.190	109.071	76.257	0.00	0.00
ATOM	27418	HE2	HIE	1824	77.336	108.756	75.821	0.00	0.00
ATOM	27419	CD2	HIE	1824	78.982	108.242	77.075	0.00	0.00
ATOM	27420	HD2	HIE	1824	78.673	107.230	77.293	0.00	0.00
ATOM	27421	C	HIE	1824	80.426	109.984	80.576	0.00	0.00
ATOM	27422	O	HIE	1824	81.303	110.800	80.774	0.00	0.00
ATOM	27423	N	TRP	1825	79.155	110.294	80.893	0.00	0.00

ATOM	27424	H	TRP	1825	78.522	109.523	80.735	0.00	0.00
ATOM	27425	CA	TRP	1825	78.652	111.633	81.398	0.00	0.00
ATOM	27426	HA	TRP	1825	79.371	112.444	81.279	0.00	0.00
ATOM	27427	CB	TRP	1825	77.533	112.045	80.415	0.00	0.00
ATOM	27428	HB2	TRP	1825	77.149	113.033	80.668	0.00	0.00
ATOM	27429	HB3	TRP	1825	77.847	112.157	79.377	0.00	0.00
ATOM	27430	CG	TRP	1825	76.413	110.975	80.354	0.00	0.00
ATOM	27431	CD1	TRP	1825	76.328	109.910	79.430	0.00	0.00
ATOM	27432	HD1	TRP	1825	76.979	109.805	78.575	0.00	0.00
ATOM	27433	NE1	TRP	1825	75.326	108.944	79.889	0.00	0.00
ATOM	27434	HE1	TRP	1825	75.237	108.047	79.433	0.00	0.00
ATOM	27435	CE2	TRP	1825	74.703	109.413	81.037	0.00	0.00
ATOM	27436	CZ2	TRP	1825	73.656	108.812	81.811	0.00	0.00
ATOM	27437	HZ2	TRP	1825	73.251	107.848	81.538	0.00	0.00
ATOM	27438	CH2	TRP	1825	73.161	109.438	82.943	0.00	0.00
ATOM	27439	HH2	TRP	1825	72.338	108.992	83.482	0.00	0.00
ATOM	27440	CZ3	TRP	1825	73.657	110.713	83.199	0.00	0.00
ATOM	27441	HZ3	TRP	1825	73.197	111.260	84.009	0.00	0.00
ATOM	27442	CE3	TRP	1825	74.705	111.318	82.449	0.00	0.00
ATOM	27443	HE3	TRP	1825	75.093	112.307	82.642	0.00	0.00
ATOM	27444	CD2	TRP	1825	75.338	110.681	81.324	0.00	0.00
ATOM	27445	C	TRP	1825	78.238	111.726	82.893	0.00	0.00
ATOM	27446	O	TRP	1825	77.747	112.768	83.297	0.00	0.00
ATOM	27447	N	GLY	1826	78.466	110.619	83.646	0.00	0.00
ATOM	27448	H	GLY	1826	78.761	109.843	83.070	0.00	0.00
ATOM	27449	CA	GLY	1826	78.240	110.541	85.103	0.00	0.00

ATOM	27450	HA2	GLY	1826	79.087	111.138	85.440	0.00	0.00
ATOM	27451	HA3	GLY	1826	77.329	111.078	85.370	0.00	0.00
ATOM	27452	C	GLY	1826	78.162	109.156	85.765	0.00	0.00
ATOM	27453	O	GLY	1826	78.122	108.129	85.106	0.00	0.00
ATOM	27454	N	ILE	1827	78.233	109.146	87.133	0.00	0.00
ATOM	27455	H	ILE	1827	78.464	110.053	87.513	0.00	0.00
ATOM	27456	CA	ILE	1827	77.955	108.123	88.118	0.00	0.00
ATOM	27457	HA	ILE	1827	77.791	107.186	87.586	0.00	0.00
ATOM	27458	CB	ILE	1827	79.216	107.998	88.979	0.00	0.00
ATOM	27459	HB	ILE	1827	79.543	108.999	89.258	0.00	0.00
ATOM	27460	CG2	ILE	1827	78.872	107.226	90.227	0.00	0.00
ATOM	27461	1HG2	ILE	1827	78.027	107.677	90.746	0.00	0.00
ATOM	27462	2HG2	ILE	1827	78.641	106.192	89.972	0.00	0.00
ATOM	27463	3HG2	ILE	1827	79.731	107.256	90.897	0.00	0.00
ATOM	27464	CG1	ILE	1827	80.418	107.194	88.345	0.00	0.00
ATOM	27465	2HG1	ILE	1827	80.993	106.679	89.115	0.00	0.00
ATOM	27466	3HG1	ILE	1827	79.922	106.358	87.852	0.00	0.00
ATOM	27467	CD1	ILE	1827	81.383	107.826	87.258	0.00	0.00
ATOM	27468	1HD1	ILE	1827	81.824	106.931	86.820	0.00	0.00
ATOM	27469	2HD1	ILE	1827	80.816	108.157	86.389	0.00	0.00
ATOM	27470	3HD1	ILE	1827	82.162	108.430	87.724	0.00	0.00
ATOM	27471	C	ILE	1827	76.700	108.647	88.894	0.00	0.00
ATOM	27472	O	ILE	1827	76.807	109.387	89.854	0.00	0.00
ATOM	27473	N	VAL	1828	75.526	108.516	88.282	0.00	0.00
ATOM	27474	H	VAL	1828	75.569	108.068	87.377	0.00	0.00
ATOM	27475	CA	VAL	1828	74.192	108.921	88.814	0.00	0.00

ATOM	27476	HA	VAL	1828	74.417	109.298	89.812	0.00	0.00
ATOM	27477	CB	VAL	1828	73.595	110.146	88.069	0.00	0.00
ATOM	27478	HB	VAL	1828	72.710	110.554	88.555	0.00	0.00
ATOM	27479	CG1	VAL	1828	74.606	111.314	87.865	0.00	0.00
ATOM	27480	1HG1	VAL	1828	75.490	110.911	87.370	0.00	0.00
ATOM	27481	2HG1	VAL	1828	74.021	112.125	87.433	0.00	0.00
ATOM	27482	3HG1	VAL	1828	74.949	111.641	88.846	0.00	0.00
ATOM	27483	CG2	VAL	1828	73.147	109.675	86.663	0.00	0.00
ATOM	27484	1HG2	VAL	1828	72.502	110.441	86.232	0.00	0.00
ATOM	27485	2HG2	VAL	1828	74.083	109.501	86.133	0.00	0.00
ATOM	27486	3HG2	VAL	1828	72.508	108.794	86.734	0.00	0.00
ATOM	27487	C	VAL	1828	73.256	107.790	89.222	0.00	0.00
ATOM	27488	O	VAL	1828	73.045	106.867	88.428	0.00	0.00
ATOM	27489	N	LYS	1829	72.573	107.938	90.353	0.00	0.00
ATOM	27490	H	LYS	1829	72.637	108.743	90.959	0.00	0.00
ATOM	27491	CA	LYS	1829	71.718	106.847	90.856	0.00	0.00
ATOM	27492	HA	LYS	1829	71.913	105.875	90.402	0.00	0.00
ATOM	27493	CB	LYS	1829	71.830	106.758	92.413	0.00	0.00
ATOM	27494	HB2	LYS	1829	72.832	106.818	92.838	0.00	0.00
ATOM	27495	HB3	LYS	1829	71.313	107.622	92.831	0.00	0.00
ATOM	27496	CG	LYS	1829	71.148	105.508	93.045	0.00	0.00
ATOM	27497	HG2	LYS	1829	71.546	104.539	92.745	0.00	0.00
ATOM	27498	HG3	LYS	1829	71.501	105.538	94.076	0.00	0.00
ATOM	27499	CD	LYS	1829	69.658	105.361	93.050	0.00	0.00
ATOM	27500	HD2	LYS	1829	69.140	106.216	92.615	0.00	0.00
ATOM	27501	HD3	LYS	1829	69.504	104.561	92.326	0.00	0.00

ATOM	27502	CE	LYS	1829	69.056	105.102	94.422	0.00	0.00
ATOM	27503	HE2	LYS	1829	67.968	105.041	94.432	0.00	0.00
ATOM	27504	HE3	LYS	1829	69.526	104.168	94.731	0.00	0.00
ATOM	27505	NZ	LYS	1829	69.436	106.154	95.352	0.00	0.00
ATOM	27506	HZ1	LYS	1829	69.395	107.111	95.033	0.00	0.00
ATOM	27507	HZ2	LYS	1829	68.947	106.073	96.232	0.00	0.00
ATOM	27508	HZ3	LYS	1829	70.391	106.108	95.677	0.00	0.00
ATOM	27509	C	LYS	1829	70.304	107.172	90.351	0.00	0.00
ATOM	27510	O	LYS	1829	69.797	108.265	90.604	0.00	0.00
ATOM	27511	N	ALA	1830	69.509	106.235	89.706	0.00	0.00
ATOM	27512	H	ALA	1830	69.899	105.303	89.728	0.00	0.00
ATOM	27513	CA	ALA	1830	68.255	106.483	89.070	0.00	0.00
ATOM	27514	HA	ALA	1830	67.789	107.316	89.596	0.00	0.00
ATOM	27515	CB	ALA	1830	68.563	106.948	87.644	0.00	0.00
ATOM	27516	HB1	ALA	1830	69.280	107.769	87.674	0.00	0.00
ATOM	27517	HB2	ALA	1830	69.022	106.160	87.048	0.00	0.00
ATOM	27518	HB3	ALA	1830	67.697	107.447	87.208	0.00	0.00
ATOM	27519	C	ALA	1830	67.326	105.293	88.984	0.00	0.00
ATOM	27520	O	ALA	1830	67.687	104.203	89.374	0.00	0.00
ATOM	27521	N	ASP	1831	66.118	105.480	88.432	0.00	0.00
ATOM	27522	H	ASP	1831	65.800	106.421	88.249	0.00	0.00
ATOM	27523	CA	ASP	1831	65.390	104.420	87.736	0.00	0.00
ATOM	27524	HA	ASP	1831	65.894	103.462	87.862	0.00	0.00
ATOM	27525	CB	ASP	1831	63.910	104.393	88.087	0.00	0.00
ATOM	27526	HB2	ASP	1831	63.359	105.239	87.677	0.00	0.00
ATOM	27527	HB3	ASP	1831	63.420	103.451	87.841	0.00	0.00

ATOM	27528	CG	ASP	1831	63.629	104.255	89.563	0.00	0.00
ATOM	27529	OD1	ASP	1831	62.951	105.230	90.048	0.00	0.00
ATOM	27530	OD2	ASP	1831	63.970	103.269	90.302	0.00	0.00
ATOM	27531	C	ASP	1831	65.631	104.709	86.229	0.00	0.00
ATOM	27532	O	ASP	1831	65.947	105.877	85.865	0.00	0.00
ATOM	27533	N	ILE	1832	65.389	103.651	85.385	0.00	0.00
ATOM	27534	H	ILE	1832	65.134	102.756	85.778	0.00	0.00
ATOM	27535	CA	ILE	1832	65.501	103.620	83.930	0.00	0.00
ATOM	27536	HA	ILE	1832	65.420	104.690	83.736	0.00	0.00
ATOM	27537	CB	ILE	1832	66.935	103.160	83.441	0.00	0.00
ATOM	27538	HB	ILE	1832	67.031	102.104	83.692	0.00	0.00
ATOM	27539	CG2	ILE	1832	67.093	103.245	81.842	0.00	0.00
ATOM	27540	1HG2	ILE	1832	66.431	102.572	81.297	0.00	0.00
ATOM	27541	2HG2	ILE	1832	66.694	104.211	81.532	0.00	0.00
ATOM	27542	3HG2	ILE	1832	68.128	103.099	81.531	0.00	0.00
ATOM	27543	CG1	ILE	1832	68.182	103.861	84.152	0.00	0.00
ATOM	27544	2HG1	ILE	1832	69.022	103.797	83.460	0.00	0.00
ATOM	27545	3HG1	ILE	1832	67.911	104.904	84.315	0.00	0.00
ATOM	27546	CD1	ILE	1832	68.697	103.330	85.449	0.00	0.00
ATOM	27547	1HD1	ILE	1832	69.084	102.319	85.327	0.00	0.00
ATOM	27548	2HD1	ILE	1832	69.577	103.916	85.715	0.00	0.00
ATOM	27549	3HD1	ILE	1832	68.045	103.289	86.321	0.00	0.00
ATOM	27550	C	ILE	1832	64.378	102.918	83.111	0.00	0.00
ATOM	27551	O	ILE	1832	64.111	101.682	83.200	0.00	0.00
ATOM	27552	N	GLY	1833	63.690	103.750	82.336	0.00	0.00
ATOM	27553	H	GLY	1833	64.114	104.654	82.180	0.00	0.00

ATOM	27554	CA	GLY	1833	62.517	103.434	81.579	0.00	0.00
ATOM	27555	HA2	GLY	1833	61.895	102.668	82.041	0.00	0.00
ATOM	27556	HA3	GLY	1833	61.790	104.245	81.610	0.00	0.00
ATOM	27557	C	GLY	1833	62.827	103.107	80.083	0.00	0.00
ATOM	27558	O	GLY	1833	63.512	103.861	79.403	0.00	0.00
ATOM	27559	N	VAL	1834	62.190	102.073	79.571	0.00	0.00
ATOM	27560	H	VAL	1834	61.610	101.534	80.198	0.00	0.00
ATOM	27561	CA	VAL	1834	62.426	101.464	78.283	0.00	0.00
ATOM	27562	HA	VAL	1834	63.116	102.099	77.727	0.00	0.00
ATOM	27563	CB	VAL	1834	63.077	100.091	78.399	0.00	0.00
ATOM	27564	HB	VAL	1834	62.347	99.460	78.906	0.00	0.00
ATOM	27565	CG1	VAL	1834	63.223	99.403	77.085	0.00	0.00
ATOM	27566	1HG1	VAL	1834	62.249	99.325	76.601	0.00	0.00
ATOM	27567	2HG1	VAL	1834	63.863	100.009	76.444	0.00	0.00
ATOM	27568	3HG1	VAL	1834	63.653	98.444	77.374	0.00	0.00
ATOM	27569	CG2	VAL	1834	64.453	100.037	79.120	0.00	0.00
ATOM	27570	1HG2	VAL	1834	64.793	99.004	79.053	0.00	0.00
ATOM	27571	2HG2	VAL	1834	65.246	100.628	78.662	0.00	0.00
ATOM	27572	3HG2	VAL	1834	64.389	100.268	80.184	0.00	0.00
ATOM	27573	C	VAL	1834	61.113	101.339	77.519	0.00	0.00
ATOM	27574	O	VAL	1834	60.194	100.735	78.035	0.00	0.00
ATOM	27575	N	LYS	1835	60.971	101.894	76.288	0.00	0.00
ATOM	27576	H	LYS	1835	61.773	102.394	75.932	0.00	0.00
ATOM	27577	CA	LYS	1835	59.738	101.648	75.482	0.00	0.00
ATOM	27578	HA	LYS	1835	59.119	100.869	75.930	0.00	0.00
ATOM	27579	CB	LYS	1835	58.962	102.945	75.342	0.00	0.00



ATOM	27580	HB2	LYS	1835	58.778	103.379	76.324	0.00	0.00
ATOM	27581	HB3	LYS	1835	59.569	103.591	74.708	0.00	0.00
ATOM	27582	CG	LYS	1835	57.624	102.789	74.659	0.00	0.00
ATOM	27583	HG2	LYS	1835	57.385	103.722	74.149	0.00	0.00
ATOM	27584	HG3	LYS	1835	57.631	102.061	73.847	0.00	0.00
ATOM	27585	CD	LYS	1835	56.555	102.368	75.677	0.00	0.00
ATOM	27586	HD2	LYS	1835	56.830	101.498	76.274	0.00	0.00
ATOM	27587	HD3	LYS	1835	56.339	103.171	76.382	0.00	0.00
ATOM	27588	CE	LYS	1835	55.288	102.040	75.001	0.00	0.00
ATOM	27589	HE2	LYS	1835	54.727	102.895	74.624	0.00	0.00
ATOM	27590	HE3	LYS	1835	55.436	101.561	74.033	0.00	0.00
ATOM	27591	NZ	LYS	1835	54.508	101.160	75.891	0.00	0.00
ATOM	27592	HZ1	LYS	1835	54.852	100.210	75.874	0.00	0.00
ATOM	27593	HZ2	LYS	1835	54.694	101.565	76.797	0.00	0.00
ATOM	27594	HZ3	LYS	1835	53.502	101.079	75.846	0.00	0.00
ATOM	27595	C	LYS	1835	60.260	101.196	74.079	0.00	0.00
ATOM	27596	O	LYS	1835	61.256	101.741	73.647	0.00	0.00
ATOM	27597	N	ASP	1836	59.715	100.169	73.489	0.00	0.00
ATOM	27598	H	ASP	1836	58.902	99.769	73.935	0.00	0.00
ATOM	27599	CA	ASP	1836	60.081	99.609	72.206	0.00	0.00
ATOM	27600	HA	ASP	1836	59.455	98.733	72.035	0.00	0.00
ATOM	27601	CB	ASP	1836	59.781	100.686	71.080	0.00	0.00
ATOM	27602	HB2	ASP	1836	58.874	101.265	71.251	0.00	0.00
ATOM	27603	HB3	ASP	1836	60.613	101.390	71.040	0.00	0.00
ATOM	27604	CG	ASP	1836	59.505	99.937	69.765	0.00	0.00
ATOM	27605	OD1	ASP	1836	58.813	98.884	69.737	0.00	0.00

ATOM	27606	OD2	ASP	1836	60.084	100.384	68.724	0.00	0.00
ATOM	27607	C	ASP	1836	61.507	99.182	72.140	0.00	0.00
ATOM	27608	O	ASP	1836	62.137	99.385	71.109	0.00	0.00
ATOM	27609	N	GLY	1837	61.968	98.551	73.255	0.00	0.00
ATOM	27610	H	GLY	1837	61.368	98.466	74.062	0.00	0.00
ATOM	27611	CA	GLY	1837	63.293	98.026	73.437	0.00	0.00
ATOM	27612	HA2	GLY	1837	63.383	97.531	74.404	0.00	0.00
ATOM	27613	HA3	GLY	1837	63.408	97.378	72.568	0.00	0.00
ATOM	27614	C	GLY	1837	64.307	99.104	73.428	0.00	0.00
ATOM	27615	O	GLY	1837	65.502	98.792	73.324	0.00	0.00
ATOM	27616	N	ARG	1838	63.922	100.427	73.452	0.00	0.00
ATOM	27617	H	ARG	1838	62.942	100.622	73.307	0.00	0.00
ATOM	27618	CA	ARG	1838	64.744	101.699	73.444	0.00	0.00
ATOM	27619	HA	ARG	1838	65.792	101.401	73.402	0.00	0.00
ATOM	27620	CB	ARG	1838	64.529	102.676	72.220	0.00	0.00
ATOM	27621	HB2	ARG	1838	63.479	102.931	72.079	0.00	0.00
ATOM	27622	HB3	ARG	1838	64.984	103.660	72.337	0.00	0.00
ATOM	27623	CG	ARG	1838	65.172	102.026	70.971	0.00	0.00
ATOM	27624	HG2	ARG	1838	66.210	101.737	71.138	0.00	0.00
ATOM	27625	HG3	ARG	1838	64.616	101.100	70.825	0.00	0.00
ATOM	27626	CD	ARG	1838	65.034	102.907	69.716	0.00	0.00
ATOM	27627	HD2	ARG	1838	63.972	103.100	69.561	0.00	0.00
ATOM	27628	HD3	ARG	1838	65.546	103.844	69.930	0.00	0.00
ATOM	27629	NE	ARG	1838	65.688	102.343	68.517	0.00	0.00
ATOM	27630	HE	ARG	1838	65.151	101.607	68.082	0.00	0.00
ATOM	27631	CZ	ARG	1838	66.750	102.776	67.913	0.00	0.00

ATOM	27632	NH1	ARG	1838	67.249	102.129	66.827	0.00	0.00
ATOM	27633	1HH1	ARG	1838	67.876	102.653	66.233	0.00	0.00
ATOM	27634	2HH1	ARG	1838	66.778	101.318	66.452	0.00	0.00
ATOM	27635	NH2	ARG	1838	67.404	103.891	68.048	0.00	0.00
ATOM	27636	1HH2	ARG	1838	68.224	104.062	67.483	0.00	0.00
ATOM	27637	2HH2	ARG	1838	67.204	104.408	68.892	0.00	0.00
ATOM	27638	C	ARG	1838	64.702	102.490	74.712	0.00	0.00
ATOM	27639	O	ARG	1838	63.715	102.529	75.442	0.00	0.00
ATOM	27640	N	ILE	1839	65.757	103.191	75.124	0.00	0.00
ATOM	27641	H	ILE	1839	66.584	103.209	74.545	0.00	0.00
ATOM	27642	CA	ILE	1839	65.901	104.007	76.301	0.00	0.00
ATOM	27643	HA	ILE	1839	65.516	103.366	77.094	0.00	0.00
ATOM	27644	CB	ILE	1839	67.366	104.398	76.503	0.00	0.00
ATOM	27645	HB	ILE	1839	67.755	104.903	75.619	0.00	0.00
ATOM	27646	CG2	ILE	1839	67.484	105.221	77.832	0.00	0.00
ATOM	27647	1HG2	ILE	1839	66.737	106.011	77.908	0.00	0.00
ATOM	27648	2HG2	ILE	1839	67.512	104.601	78.728	0.00	0.00
ATOM	27649	3HG2	ILE	1839	68.425	105.768	77.781	0.00	0.00
ATOM	27650	CG1	ILE	1839	68.148	103.117	76.831	0.00	0.00
ATOM	27651	2HG1	ILE	1839	67.722	102.705	77.746	0.00	0.00
ATOM	27652	3HG1	ILE	1839	67.871	102.443	76.020	0.00	0.00
ATOM	27653	CD1	ILE	1839	69.637	103.341	77.098	0.00	0.00
ATOM	27654	1HD1	ILE	1839	69.775	104.017	77.942	0.00	0.00
ATOM	27655	2HD1	ILE	1839	70.156	102.408	77.318	0.00	0.00
ATOM	27656	3HD1	ILE	1839	70.051	103.820	76.211	0.00	0.00
ATOM	27657	C	ILE	1839	64.947	105.269	76.235	0.00	0.00

ATOM	27658	O	ILE	1839	65.115	106.140	75.387	0.00	0.00
ATOM	27659	N	PHE	1840	63.890	105.306	77.089	0.00	0.00
ATOM	27660	H	PHE	1840	63.903	104.620	77.831	0.00	0.00
ATOM	27661	CA	PHE	1840	62.784	106.237	77.139	0.00	0.00
ATOM	27662	HA	PHE	1840	62.875	106.812	76.218	0.00	0.00
ATOM	27663	CB	PHE	1840	61.560	105.446	77.453	0.00	0.00
ATOM	27664	HB2	PHE	1840	61.457	104.655	76.709	0.00	0.00
ATOM	27665	HB3	PHE	1840	61.639	104.931	78.410	0.00	0.00
ATOM	27666	CG	PHE	1840	60.290	106.327	77.382	0.00	0.00
ATOM	27667	CD1	PHE	1840	59.631	106.554	76.165	0.00	0.00
ATOM	27668	HD1	PHE	1840	59.956	106.027	75.280	0.00	0.00
ATOM	27669	CE1	PHE	1840	58.488	107.389	76.143	0.00	0.00
ATOM	27670	HE1	PHE	1840	57.993	107.732	75.246	0.00	0.00
ATOM	27671	CZ	PHE	1840	58.089	108.039	77.355	0.00	0.00
ATOM	27672	HZ	PHE	1840	57.208	108.661	77.313	0.00	0.00
ATOM	27673	CE2	PHE	1840	58.861	107.902	78.581	0.00	0.00
ATOM	27674	HE2	PHE	1840	58.483	108.319	79.503	0.00	0.00
ATOM	27675	CD2	PHE	1840	59.854	106.915	78.536	0.00	0.00
ATOM	27676	HD2	PHE	1840	60.449	106.783	79.427	0.00	0.00
ATOM	27677	C	PHE	1840	63.050	107.445	78.051	0.00	0.00
ATOM	27678	O	PHE	1840	63.148	108.613	77.664	0.00	0.00
ATOM	27679	N	ALA	1841	63.378	107.038	79.265	0.00	0.00
ATOM	27680	H	ALA	1841	63.307	106.072	79.552	0.00	0.00
ATOM	27681	CA	ALA	1841	63.824	107.948	80.362	0.00	0.00
ATOM	27682	HA	ALA	1841	64.297	108.802	79.877	0.00	0.00
ATOM	27683	CB	ALA	1841	62.586	108.653	80.999	0.00	0.00

ATOM	27684	HB1	ALA	1841	62.144	109.290	80.233	0.00	0.00
ATOM	27685	HB2	ALA	1841	61.797	107.924	81.189	0.00	0.00
ATOM	27686	HB3	ALA	1841	62.936	109.086	81.936	0.00	0.00
ATOM	27687	C	ALA	1841	64.805	107.472	81.385	0.00	0.00
ATOM	27688	O	ALA	1841	64.844	106.332	81.726	0.00	0.00
ATOM	27689	N	ILE	1842	65.502	108.456	82.078	0.00	0.00
ATOM	27690	H	ILE	1842	65.392	109.389	81.707	0.00	0.00
ATOM	27691	CA	ILE	1842	66.347	108.267	83.272	0.00	0.00
ATOM	27692	HA	ILE	1842	66.381	107.240	83.634	0.00	0.00
ATOM	27693	CB	ILE	1842	67.836	108.507	82.880	0.00	0.00
ATOM	27694	HB	ILE	1842	67.871	109.504	82.441	0.00	0.00
ATOM	27695	CG2	ILE	1842	68.745	108.517	84.121	0.00	0.00
ATOM	27696	1HG2	ILE	1842	68.703	107.621	84.740	0.00	0.00
ATOM	27697	2HG2	ILE	1842	69.777	108.638	83.792	0.00	0.00
ATOM	27698	3HG2	ILE	1842	68.517	109.391	84.732	0.00	0.00
ATOM	27699	CG1	ILE	1842	68.332	107.417	81.914	0.00	0.00
ATOM	27700	2HG1	ILE	1842	68.519	106.524	82.510	0.00	0.00
ATOM	27701	3HG1	ILE	1842	67.525	106.991	81.319	0.00	0.00
ATOM	27702	CD1	ILE	1842	69.333	107.825	80.890	0.00	0.00
ATOM	27703	1HD1	ILE	1842	69.668	106.972	80.301	0.00	0.00
ATOM	27704	2HD1	ILE	1842	68.933	108.518	80.149	0.00	0.00
ATOM	27705	3HD1	ILE	1842	70.166	108.332	81.377	0.00	0.00
ATOM	27706	C	ILE	1842	65.907	109.264	84.348	0.00	0.00
ATOM	27707	O	ILE	1842	65.495	110.424	84.006	0.00	0.00
ATOM	27708	N	GLY	1843	65.832	108.833	85.622	0.00	0.00
ATOM	27709	H	GLY	1843	66.172	107.904	85.822	0.00	0.00

ATOM	27710	CA	GLY	1843	65.287	109.675	86.702	0.00	0.00
ATOM	27711	HA2	GLY	1843	66.162	110.183	87.108	0.00	0.00
ATOM	27712	HA3	GLY	1843	64.617	110.472	86.379	0.00	0.00
ATOM	27713	C	GLY	1843	64.576	108.889	87.851	0.00	0.00
ATOM	27714	O	GLY	1843	65.172	108.135	88.659	0.00	0.00
ATOM	27715	N	LYS	1844	63.246	109.084	87.882	0.00	0.00
ATOM	27716	H	LYS	1844	62.846	109.667	87.160	0.00	0.00
ATOM	27717	CA	LYS	1844	62.402	108.463	88.961	0.00	0.00
ATOM	27718	HA	LYS	1844	62.914	107.634	89.450	0.00	0.00
ATOM	27719	CB	LYS	1844	62.236	109.555	89.991	0.00	0.00
ATOM	27720	HB2	LYS	1844	63.275	109.813	90.194	0.00	0.00
ATOM	27721	HB3	LYS	1844	61.777	110.443	89.556	0.00	0.00
ATOM	27722	CG	LYS	1844	61.571	109.111	91.261	0.00	0.00
ATOM	27723	HG2	LYS	1844	61.808	108.059	91.416	0.00	0.00
ATOM	27724	HG3	LYS	1844	62.105	109.556	92.100	0.00	0.00
ATOM	27725	CD	LYS	1844	60.034	109.506	91.325	0.00	0.00
ATOM	27726	HD2	LYS	1844	59.853	110.579	91.388	0.00	0.00
ATOM	27727	HD3	LYS	1844	59.588	108.961	90.492	0.00	0.00
ATOM	27728	CE	LYS	1844	59.373	108.900	92.583	0.00	0.00
ATOM	27729	HE2	LYS	1844	59.636	109.451	93.486	0.00	0.00
ATOM	27730	HE3	LYS	1844	58.310	109.137	92.537	0.00	0.00
ATOM	27731	NZ	LYS	1844	59.535	107.389	92.733	0.00	0.00
ATOM	27732	HZ1	LYS	1844	58.954	107.059	93.491	0.00	0.00
ATOM	27733	HZ2	LYS	1844	59.296	106.915	91.874	0.00	0.00
ATOM	27734	HZ3	LYS	1844	60.496	107.279	93.023	0.00	0.00
ATOM	27735	C	LYS	1844	61.143	107.770	88.315	0.00	0.00

ATOM	27736	O	LYS	1844	60.400	108.378	87.574	0.00	0.00
ATOM	27737	N	ALA	1845	60.989	106.472	88.596	0.00	0.00
ATOM	27738	H	ALA	1845	61.662	105.907	89.094	0.00	0.00
ATOM	27739	CA	ALA	1845	59.817	105.699	88.215	0.00	0.00
ATOM	27740	HA	ALA	1845	59.409	106.184	87.328	0.00	0.00
ATOM	27741	CB	ALA	1845	60.156	104.288	87.874	0.00	0.00
ATOM	27742	HB1	ALA	1845	59.243	103.847	87.476	0.00	0.00
ATOM	27743	HB2	ALA	1845	60.914	104.182	87.098	0.00	0.00
ATOM	27744	HB3	ALA	1845	60.459	103.858	88.829	0.00	0.00
ATOM	27745	C	ALA	1845	58.583	105.924	89.155	0.00	0.00
ATOM	27746	O	ALA	1845	58.691	106.294	90.346	0.00	0.00
ATOM	27747	N	GLY	1846	57.401	105.734	88.659	0.00	0.00
ATOM	27748	H	GLY	1846	57.326	105.644	87.656	0.00	0.00
ATOM	27749	CA	GLY	1846	56.145	105.585	89.363	0.00	0.00
ATOM	27750	HA2	GLY	1846	56.007	104.511	89.481	0.00	0.00
ATOM	27751	HA3	GLY	1846	56.180	106.033	90.356	0.00	0.00
ATOM	27752	C	GLY	1846	54.907	105.952	88.544	0.00	0.00
ATOM	27753	O	GLY	1846	54.965	105.872	87.328	0.00	0.00
ATOM	27754	N	ASN	1847	53.818	106.317	89.258	0.00	0.00
ATOM	27755	H	ASN	1847	53.900	106.192	90.257	0.00	0.00
ATOM	27756	CA	ASN	1847	52.575	106.758	88.695	0.00	0.00
ATOM	27757	HA	ASN	1847	52.599	106.384	87.671	0.00	0.00
ATOM	27758	CB	ASN	1847	51.437	105.962	89.388	0.00	0.00
ATOM	27759	HB2	ASN	1847	51.661	104.898	89.313	0.00	0.00
ATOM	27760	HB3	ASN	1847	51.414	106.309	90.421	0.00	0.00
ATOM	27761	CG	ASN	1847	50.112	106.273	88.864	0.00	0.00

ATOM 27762	OD1 ASN 1847	49.916	106.961	87.883	0.00	0.00
ATOM 27763	ND2 ASN 1847	49.192	105.620	89.537	0.00	0.00
ATOM 27764	1HD2 ASN 1847	48.233	105.597	89.221	0.00	0.00
ATOM 27765	2HD2 ASN 1847	49.405	105.010	90.314	0.00	0.00
ATOM 27766	C ASN 1847	52.499	108.341	88.748	0.00	0.00
ATOM 27767	O ASN 1847	52.017	108.877	89.759	0.00	0.00
ATOM 27768	N PRO 1848	52.651	109.067	87.614	0.00	0.00
ATOM 27769	CD PRO 1848	52.767	108.496	86.300	0.00	0.00
ATOM 27770	HD2 PRO 1848	51.774	108.288	85.901	0.00	0.00
ATOM 27771	HD3 PRO 1848	53.343	107.580	86.170	0.00	0.00
ATOM 27772	CG PRO 1848	53.450	109.553	85.466	0.00	0.00
ATOM 27773	HG2 PRO 1848	54.489	109.231	85.404	0.00	0.00
ATOM 27774	HG3 PRO 1848	53.131	109.603	84.425	0.00	0.00
ATOM 27775	CB PRO 1848	53.404	110.973	86.160	0.00	0.00
ATOM 27776	HB2 PRO 1848	54.447	111.251	86.311	0.00	0.00
ATOM 27777	HB3 PRO 1848	52.845	111.709	85.582	0.00	0.00
ATOM 27778	CA PRO 1848	52.795	110.548	87.549	0.00	0.00
ATOM 27779	HA PRO 1848	53.550	110.926	88.239	0.00	0.00
ATOM 27780	C PRO 1848	51.434	111.333	87.816	0.00	0.00
ATOM 27781	O PRO 1848	51.471	112.562	88.059	0.00	0.00
ATOM 27782	N ASP 1849	50.296	110.626	87.732	0.00	0.00
ATOM 27783	H ASP 1849	50.394	109.631	87.595	0.00	0.00
ATOM 27784	CA ASP 1849	48.903	110.981	88.100	0.00	0.00
ATOM 27785	HA ASP 1849	48.595	111.898	87.597	0.00	0.00
ATOM 27786	CB ASP 1849	47.838	109.927	87.642	0.00	0.00
ATOM 27787	HB2 ASP 1849	48.011	109.791	86.575	0.00	0.00



ATOM	27788	HB3	ASP	1849	48.015	109.005	88.196	0.00	0.00
ATOM	27789	CG	ASP	1849	46.396	110.413	87.761	0.00	0.00
ATOM	27790	OD1	ASP	1849	45.623	109.678	88.444	0.00	0.00
ATOM	27791	OD2	ASP	1849	46.072	111.387	87.014	0.00	0.00
ATOM	27792	C	ASP	1849	48.777	111.309	89.577	0.00	0.00
ATOM	27793	O	ASP	1849	48.135	112.346	89.849	0.00	0.00
ATOM	27794	N	ILE	1850	49.449	110.600	90.413	0.00	0.00
ATOM	27795	H	ILE	1850	50.300	110.157	90.099	0.00	0.00
ATOM	27796	CA	ILE	1850	49.268	110.522	91.813	0.00	0.00
ATOM	27797	HA	ILE	1850	48.736	111.447	92.035	0.00	0.00
ATOM	27798	CB	ILE	1850	48.458	109.316	92.294	0.00	0.00
ATOM	27799	HB	ILE	1850	48.428	109.419	93.379	0.00	0.00
ATOM	27800	CG2	ILE	1850	47.018	109.380	91.848	0.00	0.00
ATOM	27801	1HG2	ILE	1850	46.481	108.494	92.185	0.00	0.00
ATOM	27802	2HG2	ILE	1850	46.584	110.357	92.064	0.00	0.00
ATOM	27803	3HG2	ILE	1850	46.855	109.306	90.773	0.00	0.00
ATOM	27804	CG1	ILE	1850	49.221	108.025	92.016	0.00	0.00
ATOM	27805	2HG1	ILE	1850	49.014	107.658	91.011	0.00	0.00
ATOM	27806	3HG1	ILE	1850	50.291	108.176	92.153	0.00	0.00
ATOM	27807	CD1	ILE	1850	48.759	106.892	92.968	0.00	0.00
ATOM	27808	1HD1	ILE	1850	47.762	106.470	92.841	0.00	0.00
ATOM	27809	2HD1	ILE	1850	49.366	106.026	92.704	0.00	0.00
ATOM	27810	3HD1	ILE	1850	48.809	107.172	94.020	0.00	0.00
ATOM	27811	C	ILE	1850	50.513	110.674	92.686	0.00	0.00
ATOM	27812	O	ILE	1850	50.395	110.930	93.891	0.00	0.00
ATOM	27813	N	GLN	1851	51.709	110.584	92.070	0.00	0.00

ATOM	27814	H	GLN	1851	51.679	110.267	91.111	0.00	0.00
ATOM	27815	CA	GLN	1851	53.047	110.933	92.553	0.00	0.00
ATOM	27816	HA	GLN	1851	52.982	111.179	93.613	0.00	0.00
ATOM	27817	CB	GLN	1851	53.851	109.611	92.588	0.00	0.00
ATOM	27818	HB2	GLN	1851	54.070	109.347	91.554	0.00	0.00
ATOM	27819	HB3	GLN	1851	54.827	109.861	93.003	0.00	0.00
ATOM	27820	CG	GLN	1851	53.357	108.394	93.342	0.00	0.00
ATOM	27821	HG2	GLN	1851	53.039	108.551	94.373	0.00	0.00
ATOM	27822	HG3	GLN	1851	52.453	108.071	92.826	0.00	0.00
ATOM	27823	CD	GLN	1851	54.372	107.233	93.295	0.00	0.00
ATOM	27824	OE1	GLN	1851	54.383	106.429	92.386	0.00	0.00
ATOM	27825	NE2	GLN	1851	55.238	107.116	94.266	0.00	0.00
ATOM	27826	1HE2	GLN	1851	55.925	106.383	94.165	0.00	0.00
ATOM	27827	2HE2	GLN	1851	55.175	107.845	94.962	0.00	0.00
ATOM	27828	C	GLN	1851	53.806	111.971	91.814	0.00	0.00
ATOM	27829	O	GLN	1851	53.777	111.877	90.577	0.00	0.00
ATOM	27830	N	PRO	1852	54.274	112.949	92.595	0.00	0.00
ATOM	27831	CD	PRO	1852	54.314	112.948	94.069	0.00	0.00
ATOM	27832	HD2	PRO	1852	53.297	113.004	94.458	0.00	0.00
ATOM	27833	HD3	PRO	1852	54.716	112.014	94.461	0.00	0.00
ATOM	27834	CG	PRO	1852	55.284	114.066	94.456	0.00	0.00
ATOM	27835	HG2	PRO	1852	54.743	114.618	95.224	0.00	0.00
ATOM	27836	HG3	PRO	1852	56.174	113.653	94.933	0.00	0.00
ATOM	27837	CB	PRO	1852	55.377	114.917	93.163	0.00	0.00
ATOM	27838	HB2	PRO	1852	54.468	115.514	93.082	0.00	0.00
ATOM	27839	HB3	PRO	1852	56.287	115.516	93.158	0.00	0.00

ATOM	27840	CA	PRO	1852	55.244	113.933	92.023	0.00	0.00
ATOM	27841	HA	PRO	1852	54.793	114.398	91.146	0.00	0.00
ATOM	27842	C	PRO	1852	56.598	113.384	91.538	0.00	0.00
ATOM	27843	O	PRO	1852	56.916	112.215	91.776	0.00	0.00
ATOM	27844	N	ASN	1853	57.445	114.231	90.970	0.00	0.00
ATOM	27845	H	ASN	1853	57.098	115.160	90.781	0.00	0.00
ATOM	27846	CA	ASN	1853	58.863	114.138	90.497	0.00	0.00
ATOM	27847	HA	ASN	1853	59.033	115.065	89.950	0.00	0.00
ATOM	27848	CB	ASN	1853	59.815	113.982	91.760	0.00	0.00
ATOM	27849	HB2	ASN	1853	59.532	114.662	92.563	0.00	0.00
ATOM	27850	HB3	ASN	1853	59.674	112.999	92.210	0.00	0.00
ATOM	27851	CG	ASN	1853	61.259	114.347	91.526	0.00	0.00
ATOM	27852	OD1	ASN	1853	61.452	115.289	90.736	0.00	0.00
ATOM	27853	ND2	ASN	1853	62.297	113.692	92.083	0.00	0.00
ATOM	27854	1HD2	ASN	1853	63.197	114.009	91.753	0.00	0.00
ATOM	27855	2HD2	ASN	1853	62.185	112.817	92.575	0.00	0.00
ATOM	27856	C	ASN	1853	59.097	112.984	89.468	0.00	0.00
ATOM	27857	O	ASN	1853	60.201	112.739	89.082	0.00	0.00
ATOM	27858	N	VAL	1854	58.052	112.299	89.129	0.00	0.00
ATOM	27859	H	VAL	1854	57.159	112.444	89.579	0.00	0.00
ATOM	27860	CA	VAL	1854	58.162	111.058	88.253	0.00	0.00
ATOM	27861	HA	VAL	1854	58.995	110.415	88.537	0.00	0.00
ATOM	27862	CB	VAL	1854	56.897	110.170	88.297	0.00	0.00
ATOM	27863	HB	VAL	1854	55.987	110.711	88.038	0.00	0.00
ATOM	27864	CG1	VAL	1854	56.994	108.960	87.291	0.00	0.00
ATOM	27865	1HG1	VAL	1854	56.028	108.470	87.421	0.00	0.00

ATOM	27866	2HG1	VAL	1854	57.085	109.310	86.263	0.00	0.00
ATOM	27867	3HG1	VAL	1854	57.819	108.260	87.422	0.00	0.00
ATOM	27868	CG2	VAL	1854	56.598	109.538	89.655	0.00	0.00
ATOM	27869	1HG2	VAL	1854	57.551	109.319	90.138	0.00	0.00
ATOM	27870	2HG2	VAL	1854	55.985	110.230	90.233	0.00	0.00
ATOM	27871	3HG2	VAL	1854	56.093	108.575	89.585	0.00	0.00
ATOM	27872	C	VAL	1854	58.518	111.438	86.813	0.00	0.00
ATOM	27873	O	VAL	1854	57.977	112.337	86.225	0.00	0.00
ATOM	27874	N	THR	1855	59.398	110.630	86.189	0.00	0.00
ATOM	27875	H	THR	1855	59.741	109.836	86.711	0.00	0.00
ATOM	27876	CA	THR	1855	59.904	110.760	84.816	0.00	0.00
ATOM	27877	HA	THR	1855	59.199	111.396	84.280	0.00	0.00
ATOM	27878	CB	THR	1855	61.261	111.447	84.789	0.00	0.00
ATOM	27879	HB	THR	1855	61.633	111.134	83.814	0.00	0.00
ATOM	27880	CG2	THR	1855	61.013	112.944	84.838	0.00	0.00
ATOM	27881	1HG2	THR	1855	61.900	113.541	84.624	0.00	0.00
ATOM	27882	2HG2	THR	1855	60.378	113.226	83.998	0.00	0.00
ATOM	27883	3HG2	THR	1855	60.431	113.236	85.713	0.00	0.00
ATOM	27884	OG1	THR	1855	62.016	111.045	85.917	0.00	0.00
ATOM	27885	HG1	THR	1855	61.949	111.759	86.555	0.00	0.00
ATOM	27886	C	THR	1855	59.837	109.463	84.037	0.00	0.00
ATOM	27887	O	THR	1855	60.100	109.396	82.787	0.00	0.00
ATOM	27888	N	ILE	1856	59.248	108.420	84.639	0.00	0.00
ATOM	27889	H	ILE	1856	58.987	108.545	85.606	0.00	0.00
ATOM	27890	CA	ILE	1856	59.032	107.114	83.974	0.00	0.00
ATOM	27891	HA	ILE	1856	59.017	107.175	82.886	0.00	0.00

ATOM	27892	CB	ILE	1856	60.192	106.138	84.371	0.00	0.00
ATOM	27893	HB	ILE	1856	60.126	106.029	85.453	0.00	0.00
ATOM	27894	CG2	ILE	1856	59.996	104.774	83.679	0.00	0.00
ATOM	27895	1HG2	ILE	1856	59.686	105.015	82.662	0.00	0.00
ATOM	27896	2HG2	ILE	1856	60.852	104.111	83.555	0.00	0.00
ATOM	27897	3HG2	ILE	1856	59.170	104.228	84.135	0.00	0.00
ATOM	27898	CG1	ILE	1856	61.633	106.678	84.020	0.00	0.00
ATOM	27899	2HG1	ILE	1856	62.220	105.985	83.416	0.00	0.00
ATOM	27900	3HG1	ILE	1856	61.569	107.547	83.365	0.00	0.00
ATOM	27901	CD1	ILE	1856	62.420	106.967	85.313	0.00	0.00
ATOM	27902	1HD1	ILE	1856	62.184	106.130	85.970	0.00	0.00
ATOM	27903	2HD1	ILE	1856	63.492	106.885	85.131	0.00	0.00
ATOM	27904	3HD1	ILE	1856	62.037	107.893	85.743	0.00	0.00
ATOM	27905	C	ILE	1856	57.675	106.587	84.431	0.00	0.00
ATOM	27906	O	ILE	1856	57.632	106.061	85.531	0.00	0.00
ATOM	27907	N	PRO	1857	56.636	106.746	83.645	0.00	0.00
ATOM	27908	CD	PRO	1857	56.533	107.635	82.480	0.00	0.00
ATOM	27909	HD2	PRO	1857	56.574	108.685	82.769	0.00	0.00
ATOM	27910	HD3	PRO	1857	57.371	107.522	81.792	0.00	0.00
ATOM	27911	CG	PRO	1857	55.256	107.228	81.795	0.00	0.00
ATOM	27912	HG2	PRO	1857	54.796	108.063	81.267	0.00	0.00
ATOM	27913	HG3	PRO	1857	55.506	106.453	81.071	0.00	0.00
ATOM	27914	CB	PRO	1857	54.415	106.633	82.859	0.00	0.00
ATOM	27915	HB2	PRO	1857	53.814	107.360	83.405	0.00	0.00
ATOM	27916	HB3	PRO	1857	53.765	105.866	82.438	0.00	0.00
ATOM	27917	CA	PRO	1857	55.352	106.091	83.908	0.00	0.00

ATOM	27918	HA	PRO	1857	54.990	106.445	84.873	0.00	0.00
ATOM	27919	C	PRO	1857	55.411	104.537	83.954	0.00	0.00
ATOM	27920	O	PRO	1857	55.637	103.915	82.905	0.00	0.00
ATOM	27921	N	ILE	1858	55.164	103.951	85.089	0.00	0.00
ATOM	27922	H	ILE	1858	55.199	104.521	85.921	0.00	0.00
ATOM	27923	CA	ILE	1858	54.875	102.528	85.264	0.00	0.00
ATOM	27924	HA	ILE	1858	55.345	102.047	84.407	0.00	0.00
ATOM	27925	CB	ILE	1858	55.353	101.802	86.549	0.00	0.00
ATOM	27926	HB	ILE	1858	54.894	102.274	87.418	0.00	0.00
ATOM	27927	CG2	ILE	1858	55.087	100.210	86.637	0.00	0.00
ATOM	27928	1HG2	ILE	1858	55.857	99.675	86.081	0.00	0.00
ATOM	27929	2HG2	ILE	1858	55.046	99.800	87.646	0.00	0.00
ATOM	27930	3HG2	ILE	1858	54.101	99.938	86.261	0.00	0.00
ATOM	27931	CG1	ILE	1858	56.867	102.013	86.673	0.00	0.00
ATOM	27932	2HG1	ILE	1858	57.264	101.554	85.767	0.00	0.00
ATOM	27933	3HG1	ILE	1858	57.188	103.054	86.711	0.00	0.00
ATOM	27934	CD1	ILE	1858	57.345	101.349	87.926	0.00	0.00
ATOM	27935	1HD1	ILE	1858	58.341	101.720	88.167	0.00	0.00
ATOM	27936	2HD1	ILE	1858	56.678	101.600	88.751	0.00	0.00
ATOM	27937	3HD1	ILE	1858	57.497	100.279	87.782	0.00	0.00
ATOM	27938	C	ILE	1858	53.349	102.290	85.114	0.00	0.00
ATOM	27939	O	ILE	1858	52.491	102.953	85.715	0.00	0.00
ATOM	27940	N	GLY	1859	53.018	101.225	84.416	0.00	0.00
ATOM	27941	H	GLY	1859	53.768	100.585	84.196	0.00	0.00
ATOM	27942	CA	GLY	1859	51.705	100.813	84.137	0.00	0.00
ATOM	27943	HA2	GLY	1859	51.324	101.361	83.276	0.00	0.00

ATOM	27944	HA3	GLY	1859	51.082	101.174	84.955	0.00	0.00
ATOM	27945	C	GLY	1859	51.477	99.294	83.939	0.00	0.00
ATOM	27946	O	GLY	1859	52.371	98.438	84.220	0.00	0.00
ATOM	27947	N	ALA	1860	50.277	99.000	83.515	0.00	0.00
ATOM	27948	H	ALA	1860	49.730	99.794	83.215	0.00	0.00
ATOM	27949	CA	ALA	1860	49.884	97.593	83.275	0.00	0.00
ATOM	27950	HA	ALA	1860	49.979	97.279	84.314	0.00	0.00
ATOM	27951	CB	ALA	1860	48.410	97.566	82.773	0.00	0.00
ATOM	27952	HB1	ALA	1860	47.685	97.897	83.517	0.00	0.00
ATOM	27953	HB2	ALA	1860	48.253	98.185	81.890	0.00	0.00
ATOM	27954	HB3	ALA	1860	48.144	96.574	82.407	0.00	0.00
ATOM	27955	C	ALA	1860	50.811	96.836	82.225	0.00	0.00
ATOM	27956	O	ALA	1860	50.957	95.616	82.233	0.00	0.00
ATOM	27957	N	ALA	1861	51.425	97.594	81.296	0.00	0.00
ATOM	27958	H	ALA	1861	51.245	98.587	81.331	0.00	0.00
ATOM	27959	CA	ALA	1861	52.260	96.937	80.229	0.00	0.00
ATOM	27960	HA	ALA	1861	51.840	95.933	80.166	0.00	0.00
ATOM	27961	CB	ALA	1861	52.014	97.728	78.894	0.00	0.00
ATOM	27962	HB1	ALA	1861	52.724	97.387	78.140	0.00	0.00
ATOM	27963	HB2	ALA	1861	50.995	97.559	78.546	0.00	0.00
ATOM	27964	HB3	ALA	1861	52.194	98.783	79.101	0.00	0.00
ATOM	27965	C	ALA	1861	53.699	96.737	80.652	0.00	0.00
ATOM	27966	O	ALA	1861	54.526	96.316	79.868	0.00	0.00
ATOM	27967	N	THR	1862	54.097	97.015	81.909	0.00	0.00
ATOM	27968	H	THR	1862	53.448	97.485	82.525	0.00	0.00
ATOM	27969	CA	THR	1862	55.474	97.121	82.439	0.00	0.00

ATOM	27970	HA	THR	1862	56.225	97.193	81.652	0.00	0.00
ATOM	27971	CB	THR	1862	55.606	98.379	83.402	0.00	0.00
ATOM	27972	HB	THR	1862	55.091	98.195	84.345	0.00	0.00
ATOM	27973	CG2	THR	1862	56.970	98.607	83.938	0.00	0.00
ATOM	27974	1HG2	THR	1862	57.669	98.404	83.126	0.00	0.00
ATOM	27975	2HG2	THR	1862	57.148	99.555	84.446	0.00	0.00
ATOM	27976	3HG2	THR	1862	57.079	97.840	84.705	0.00	0.00
ATOM	27977	OG1	THR	1862	55.039	99.608	82.868	0.00	0.00
ATOM	27978	HG1	THR	1862	55.416	99.730	81.993	0.00	0.00
ATOM	27979	C	THR	1862	55.923	95.937	83.222	0.00	0.00
ATOM	27980	O	THR	1862	55.213	95.416	84.094	0.00	0.00
ATOM	27981	N	GLU	1863	57.130	95.394	82.865	0.00	0.00
ATOM	27982	H	GLU	1863	57.595	95.622	81.998	0.00	0.00
ATOM	27983	CA	GLU	1863	57.873	94.452	83.775	0.00	0.00
ATOM	27984	HA	GLU	1863	57.211	93.868	84.415	0.00	0.00
ATOM	27985	CB	GLU	1863	58.502	93.288	82.943	0.00	0.00
ATOM	27986	HB2	GLU	1863	57.823	92.740	82.290	0.00	0.00
ATOM	27987	HB3	GLU	1863	59.121	93.773	82.188	0.00	0.00
ATOM	27988	CG	GLU	1863	59.411	92.288	83.607	0.00	0.00
ATOM	27989	HG2	GLU	1863	59.951	91.685	82.877	0.00	0.00
ATOM	27990	HG3	GLU	1863	60.192	92.888	84.072	0.00	0.00
ATOM	27991	CD	GLU	1863	58.710	91.395	84.748	0.00	0.00
ATOM	27992	OE1	GLU	1863	58.693	90.187	84.696	0.00	0.00
ATOM	27993	OE2	GLU	1863	58.255	92.072	85.654	0.00	0.00
ATOM	27994	C	GLU	1863	58.918	95.130	84.622	0.00	0.00
ATOM	27995	O	GLU	1863	59.354	96.222	84.247	0.00	0.00



ATOM 27996	N	VAL 1864	59.244	94.620	85.812	0.00	0.00
ATOM 27997	H	VAL 1864	58.881	93.705	86.038	0.00	0.00
ATOM 27998	CA	VAL 1864	60.179	95.288	86.783	0.00	0.00
ATOM 27999	HA	VAL 1864	60.575	96.206	86.349	0.00	0.00
ATOM 28000	CB	VAL 1864	59.487	95.693	88.069	0.00	0.00
ATOM 28001	HB	VAL 1864	58.817	96.517	87.819	0.00	0.00
ATOM 28002	CG1	VAL 1864	58.726	94.596	88.905	0.00	0.00
ATOM 28003	1HG1	VAL 1864	59.491	94.048	89.455	0.00	0.00
ATOM 28004	2HG1	VAL 1864	58.208	95.177	89.669	0.00	0.00
ATOM 28005	3HG1	VAL 1864	57.999	93.979	88.376	0.00	0.00
ATOM 28006	CG2	VAL 1864	60.538	96.304	88.921	0.00	0.00
ATOM 28007	1HG2	VAL 1864	61.119	97.027	88.348	0.00	0.00
ATOM 28008	2HG2	VAL 1864	60.012	96.676	89.799	0.00	0.00
ATOM 28009	3HG2	VAL 1864	61.266	95.561	89.248	0.00	0.00
ATOM 28010	C	VAL 1864	61.432	94.440	86.941	0.00	0.00
ATOM 28011	O	VAL 1864	61.352	93.301	87.484	0.00	0.00
ATOM 28012	N	ILE 1865	62.618	94.991	86.662	0.00	0.00
ATOM 28013	H	ILE 1865	62.533	95.945	86.340	0.00	0.00
ATOM 28014	CA	ILE 1865	63.861	94.427	86.938	0.00	0.00
ATOM 28015	HA	ILE 1865	63.825	93.375	87.220	0.00	0.00
ATOM 28016	CB	ILE 1865	64.875	94.472	85.811	0.00	0.00
ATOM 28017	HB	ILE 1865	65.033	95.525	85.578	0.00	0.00
ATOM 28018	CG2	ILE 1865	66.201	93.843	86.242	0.00	0.00
ATOM 28019	1HG2	ILE 1865	66.137	92.763	86.109	0.00	0.00
ATOM 28020	2HG2	ILE 1865	66.899	94.240	85.505	0.00	0.00
ATOM 28021	3HG2	ILE 1865	66.449	94.026	87.288	0.00	0.00

ATOM	28022	CG1	ILE	1865	64.316	93.757	84.507	0.00	0.00
ATOM	28023	2HG1	ILE	1865	63.946	92.771	84.790	0.00	0.00
ATOM	28024	3HG1	ILE	1865	63.527	94.353	84.049	0.00	0.00
ATOM	28025	CD1	ILE	1865	65.358	93.493	83.355	0.00	0.00
ATOM	28026	1HD1	ILE	1865	66.188	92.833	83.610	0.00	0.00
ATOM	28027	2HD1	ILE	1865	64.946	93.063	82.442	0.00	0.00
ATOM	28028	3HD1	ILE	1865	65.829	94.431	83.061	0.00	0.00
ATOM	28029	C	ILE	1865	64.308	95.126	88.262	0.00	0.00
ATOM	28030	O	ILE	1865	64.332	96.380	88.314	0.00	0.00
ATOM	28031	N	ALA	1866	64.868	94.437	89.238	0.00	0.00
ATOM	28032	H	ALA	1866	65.138	93.481	89.053	0.00	0.00
ATOM	28033	CA	ALA	1866	65.328	95.006	90.479	0.00	0.00
ATOM	28034	HA	ALA	1866	64.787	95.906	90.774	0.00	0.00
ATOM	28035	CB	ALA	1866	64.775	94.128	91.644	0.00	0.00
ATOM	28036	HB1	ALA	1866	63.695	93.985	91.611	0.00	0.00
ATOM	28037	HB2	ALA	1866	65.257	93.158	91.523	0.00	0.00
ATOM	28038	HB3	ALA	1866	65.085	94.383	92.657	0.00	0.00
ATOM	28039	C	ALA	1866	66.822	95.094	90.450	0.00	0.00
ATOM	28040	O	ALA	1866	67.439	94.052	90.335	0.00	0.00
ATOM	28041	N	ALA	1867	67.480	96.314	90.616	0.00	0.00
ATOM	28042	H	ALA	1867	66.897	97.135	90.541	0.00	0.00
ATOM	28043	CA	ALA	1867	68.880	96.458	90.919	0.00	0.00
ATOM	28044	HA	ALA	1867	69.379	95.572	90.527	0.00	0.00
ATOM	28045	CB	ALA	1867	69.451	97.612	90.114	0.00	0.00
ATOM	28046	HB1	ALA	1867	70.486	97.798	90.402	0.00	0.00
ATOM	28047	HB2	ALA	1867	69.428	97.531	89.028	0.00	0.00

ATOM	28048	HB3	ALA	1867	68.934	98.543	90.347	0.00	0.00
ATOM	28049	C	ALA	1867	69.194	96.459	92.436	0.00	0.00
ATOM	28050	O	ALA	1867	70.233	95.910	92.804	0.00	0.00
ATOM	28051	N	GLU	1868	68.403	96.981	93.344	0.00	0.00
ATOM	28052	H	GLU	1868	67.482	97.247	93.027	0.00	0.00
ATOM	28053	CA	GLU	1868	68.782	97.154	94.756	0.00	0.00
ATOM	28054	HA	GLU	1868	68.044	97.811	95.215	0.00	0.00
ATOM	28055	CB	GLU	1868	68.515	95.881	95.442	0.00	0.00
ATOM	28056	HB2	GLU	1868	69.218	95.162	95.020	0.00	0.00
ATOM	28057	HB3	GLU	1868	68.739	95.845	96.508	0.00	0.00
ATOM	28058	CG	GLU	1868	67.005	95.364	95.229	0.00	0.00
ATOM	28059	HG2	GLU	1868	66.687	95.507	94.196	0.00	0.00
ATOM	28060	HG3	GLU	1868	66.927	94.310	95.499	0.00	0.00
ATOM	28061	CD	GLU	1868	66.050	96.081	96.157	0.00	0.00
ATOM	28062	OE1	GLU	1868	66.568	96.739	97.087	0.00	0.00
ATOM	28063	OE2	GLU	1868	64.806	95.858	96.176	0.00	0.00
ATOM	28064	C	GLU	1868	70.193	97.775	94.951	0.00	0.00
ATOM	28065	O	GLU	1868	70.953	97.438	95.859	0.00	0.00
ATOM	28066	N	GLY	1869	70.625	98.687	94.056	0.00	0.00
ATOM	28067	H	GLY	1869	70.022	99.028	93.321	0.00	0.00
ATOM	28068	CA	GLY	1869	71.904	99.418	94.035	0.00	0.00
ATOM	28069	HA2	GLY	1869	71.759	100.391	93.566	0.00	0.00
ATOM	28070	HA3	GLY	1869	72.140	99.471	95.098	0.00	0.00
ATOM	28071	C	GLY	1869	73.042	98.804	93.300	0.00	0.00
ATOM	28072	O	GLY	1869	74.168	99.300	93.278	0.00	0.00
ATOM	28073	N	LYS	1870	72.802	97.595	92.754	0.00	0.00

ATOM	28074	H	LYS	1870	71.853	97.262	92.847	0.00	0.00
ATOM	28075	CA	LYS	1870	73.676	97.019	91.680	0.00	0.00
ATOM	28076	HA	LYS	1870	74.682	96.807	92.040	0.00	0.00
ATOM	28077	CB	LYS	1870	73.006	95.840	91.086	0.00	0.00
ATOM	28078	HB2	LYS	1870	72.016	96.146	90.750	0.00	0.00
ATOM	28079	HB3	LYS	1870	73.577	95.379	90.280	0.00	0.00
ATOM	28080	CG	LYS	1870	72.849	94.732	92.133	0.00	0.00
ATOM	28081	HG2	LYS	1870	73.827	94.325	92.389	0.00	0.00
ATOM	28082	HG3	LYS	1870	72.545	95.091	93.116	0.00	0.00
ATOM	28083	CD	LYS	1870	71.971	93.504	91.615	0.00	0.00
ATOM	28084	HD2	LYS	1870	70.941	93.725	91.337	0.00	0.00
ATOM	28085	HD3	LYS	1870	72.481	93.084	90.748	0.00	0.00
ATOM	28086	CE	LYS	1870	71.821	92.483	92.791	0.00	0.00
ATOM	28087	HE2	LYS	1870	71.340	91.609	92.352	0.00	0.00
ATOM	28088	HE3	LYS	1870	72.747	92.206	93.295	0.00	0.00
ATOM	28089	NZ	LYS	1870	70.866	93.141	93.763	0.00	0.00
ATOM	28090	HZ1	LYS	1870	71.101	94.093	94.003	0.00	0.00
ATOM	28091	HZ2	LYS	1870	69.957	93.220	93.329	0.00	0.00
ATOM	28092	HZ3	LYS	1870	70.677	92.558	94.566	0.00	0.00
ATOM	28093	C	LYS	1870	73.889	98.150	90.611	0.00	0.00
ATOM	28094	O	LYS	1870	73.087	99.099	90.407	0.00	0.00
ATOM	28095	N	ILE	1871	74.906	97.976	89.829	0.00	0.00
ATOM	28096	H	ILE	1871	75.485	97.169	90.010	0.00	0.00
ATOM	28097	CA	ILE	1871	75.420	98.961	88.885	0.00	0.00
ATOM	28098	HA	ILE	1871	74.909	99.880	89.172	0.00	0.00
ATOM	28099	CB	ILE	1871	76.916	99.111	89.199	0.00	0.00

ATOM	28100	HB	ILE	1871	77.490	98.252	88.851	0.00	0.00
ATOM	28101	CG2	ILE	1871	77.376	100.273	88.322	0.00	0.00
ATOM	28102	1HG2	ILE	1871	78.394	100.620	88.501	0.00	0.00
ATOM	28103	2HG2	ILE	1871	77.249	100.029	87.267	0.00	0.00
ATOM	28104	3HG2	ILE	1871	76.738	101.130	88.536	0.00	0.00
ATOM	28105	CG1	ILE	1871	77.260	99.576	90.717	0.00	0.00
ATOM	28106	2HG1	ILE	1871	76.723	100.493	90.959	0.00	0.00
ATOM	28107	3HG1	ILE	1871	76.796	98.922	91.455	0.00	0.00
ATOM	28108	CD1	ILE	1871	78.769	99.589	90.967	0.00	0.00
ATOM	28109	1HD1	ILE	1871	78.939	99.463	92.036	0.00	0.00
ATOM	28110	2HD1	ILE	1871	79.218	98.761	90.418	0.00	0.00
ATOM	28111	3HD1	ILE	1871	79.349	100.480	90.729	0.00	0.00
ATOM	28112	C	ILE	1871	75.120	98.603	87.444	0.00	0.00
ATOM	28113	O	ILE	1871	75.351	97.436	87.016	0.00	0.00
ATOM	28114	N	VAL	1872	74.605	99.568	86.655	0.00	0.00
ATOM	28115	H	VAL	1872	74.521	100.463	87.116	0.00	0.00
ATOM	28116	CA	VAL	1872	74.206	99.332	85.286	0.00	0.00
ATOM	28117	HA	VAL	1872	74.292	98.264	85.090	0.00	0.00
ATOM	28118	CB	VAL	1872	72.729	99.619	84.994	0.00	0.00
ATOM	28119	HB	VAL	1872	71.975	99.085	85.573	0.00	0.00
ATOM	28120	CG1	VAL	1872	72.340	101.085	84.884	0.00	0.00
ATOM	28121	1HG1	VAL	1872	72.909	101.523	84.064	0.00	0.00
ATOM	28122	2HG1	VAL	1872	71.280	101.193	84.656	0.00	0.00
ATOM	28123	3HG1	VAL	1872	72.593	101.525	85.849	0.00	0.00
ATOM	28124	CG2	VAL	1872	72.424	99.217	83.499	0.00	0.00
ATOM	28125	1HG2	VAL	1872	73.126	99.662	82.794	0.00	0.00

ATOM	28126	2HG2	VAL	1872	72.336	98.135	83.406	0.00	0.00
ATOM	28127	3HG2	VAL	1872	71.411	99.520	83.236	0.00	0.00
ATOM	28128	C	VAL	1872	75.190	99.977	84.284	0.00	0.00
ATOM	28129	O	VAL	1872	75.612	101.128	84.481	0.00	0.00
ATOM	28130	N	THR	1873	75.512	99.318	83.185	0.00	0.00
ATOM	28131	H	THR	1873	75.129	98.389	83.086	0.00	0.00
ATOM	28132	CA	THR	1873	76.308	99.868	82.101	0.00	0.00
ATOM	28133	HA	THR	1873	76.177	100.949	82.131	0.00	0.00
ATOM	28134	CB	THR	1873	77.805	99.439	82.239	0.00	0.00
ATOM	28135	HB	THR	1873	78.274	99.888	81.364	0.00	0.00
ATOM	28136	CG2	THR	1873	78.503	99.853	83.526	0.00	0.00
ATOM	28137	1HG2	THR	1873	79.457	99.327	83.529	0.00	0.00
ATOM	28138	2HG2	THR	1873	78.521	100.939	83.433	0.00	0.00
ATOM	28139	3HG2	THR	1873	78.037	99.499	84.446	0.00	0.00
ATOM	28140	OG1	THR	1873	78.024	98.043	82.302	0.00	0.00
ATOM	28141	HG1	THR	1873	77.151	97.748	82.032	0.00	0.00
ATOM	28142	C	THR	1873	75.837	99.476	80.722	0.00	0.00
ATOM	28143	O	THR	1873	75.338	98.384	80.514	0.00	0.00
ATOM	28144	N	ALA	1874	75.952	100.376	79.703	0.00	0.00
ATOM	28145	H	ALA	1874	76.372	101.256	79.966	0.00	0.00
ATOM	28146	CA	ALA	1874	75.483	100.103	78.300	0.00	0.00
ATOM	28147	HA	ALA	1874	74.476	99.690	78.342	0.00	0.00
ATOM	28148	CB	ALA	1874	75.426	101.434	77.488	0.00	0.00
ATOM	28149	HB1	ALA	1874	76.200	101.452	76.720	0.00	0.00
ATOM	28150	HB2	ALA	1874	74.414	101.587	77.113	0.00	0.00
ATOM	28151	HB3	ALA	1874	75.803	102.250	78.105	0.00	0.00

ATOM	28152	C	ALA	1874	76.257	99.048	77.533	0.00	0.00
ATOM	28153	O	ALA	1874	77.316	98.589	78.029	0.00	0.00
ATOM	28154	N	GLY	1875	75.630	98.595	76.467	0.00	0.00
ATOM	28155	H	GLY	1875	74.776	99.051	76.178	0.00	0.00
ATOM	28156	CA	GLY	1875	76.178	97.410	75.793	0.00	0.00
ATOM	28157	HA2	GLY	1875	76.195	96.642	76.566	0.00	0.00
ATOM	28158	HA3	GLY	1875	75.468	97.157	75.005	0.00	0.00
ATOM	28159	C	GLY	1875	77.594	97.526	75.249	0.00	0.00
ATOM	28160	O	GLY	1875	77.793	98.286	74.296	0.00	0.00
ATOM	28161	N	GLY	1876	78.563	96.796	75.682	0.00	0.00
ATOM	28162	H	GLY	1876	78.405	96.130	76.425	0.00	0.00
ATOM	28163	CA	GLY	1876	79.931	96.866	75.210	0.00	0.00
ATOM	28164	HA2	GLY	1876	80.426	97.680	75.740	0.00	0.00
ATOM	28165	HA3	GLY	1876	80.353	95.925	75.562	0.00	0.00
ATOM	28166	C	GLY	1876	79.961	96.768	73.681	0.00	0.00
ATOM	28167	O	GLY	1876	79.243	95.894	73.173	0.00	0.00
ATOM	28168	N	ILE	1877	80.869	97.436	73.000	0.00	0.00
ATOM	28169	H	ILE	1877	81.496	97.964	73.591	0.00	0.00
ATOM	28170	CA	ILE	1877	81.322	97.366	71.560	0.00	0.00
ATOM	28171	HA	ILE	1877	80.737	96.584	71.075	0.00	0.00
ATOM	28172	CB	ILE	1877	80.933	98.715	70.811	0.00	0.00
ATOM	28173	HB	ILE	1877	81.596	99.441	71.283	0.00	0.00
ATOM	28174	CG2	ILE	1877	81.158	98.538	69.325	0.00	0.00
ATOM	28175	1HG2	ILE	1877	80.379	97.900	68.906	0.00	0.00
ATOM	28176	2HG2	ILE	1877	81.171	99.447	68.724	0.00	0.00
ATOM	28177	3HG2	ILE	1877	82.036	97.934	69.093	0.00	0.00

ATOM	28178	CG1	ILE	1877	79.486	99.211	71.086	0.00	0.00
ATOM	28179	2HG1	ILE	1877	78.735	98.437	70.930	0.00	0.00
ATOM	28180	3HG1	ILE	1877	79.410	99.582	72.108	0.00	0.00
ATOM	28181	CD1	ILE	1877	79.111	100.300	70.156	0.00	0.00
ATOM	28182	1HD1	ILE	1877	79.955	100.977	70.020	0.00	0.00
ATOM	28183	2HD1	ILE	1877	78.724	99.945	69.201	0.00	0.00
ATOM	28184	3HD1	ILE	1877	78.345	100.817	70.733	0.00	0.00
ATOM	28185	C	ILE	1877	82.835	97.101	71.497	0.00	0.00
ATOM	28186	O	ILE	1877	83.538	98.054	71.844	0.00	0.00
ATOM	28187	N	ASP	1878	83.326	95.997	70.901	0.00	0.00
ATOM	28188	H	ASP	1878	82.695	95.320	70.496	0.00	0.00
ATOM	28189	CA	ASP	1878	84.769	95.882	70.584	0.00	0.00
ATOM	28190	HA	ASP	1878	85.195	96.659	71.219	0.00	0.00
ATOM	28191	CB	ASP	1878	85.360	94.489	70.992	0.00	0.00
ATOM	28192	HB2	ASP	1878	85.122	94.289	72.037	0.00	0.00
ATOM	28193	HB3	ASP	1878	84.916	93.675	70.418	0.00	0.00
ATOM	28194	CG	ASP	1878	86.903	94.583	70.699	0.00	0.00
ATOM	28195	OD1	ASP	1878	87.399	94.003	69.760	0.00	0.00
ATOM	28196	OD2	ASP	1878	87.481	95.470	71.326	0.00	0.00
ATOM	28197	C	ASP	1878	84.991	96.261	69.127	0.00	0.00
ATOM	28198	O	ASP	1878	84.054	96.074	68.281	0.00	0.00
ATOM	28199	N	THR	1879	86.194	96.754	68.800	0.00	0.00
ATOM	28200	H	THR	1879	86.884	96.788	69.537	0.00	0.00
ATOM	28201	CA	THR	1879	86.522	97.255	67.401	0.00	0.00
ATOM	28202	HA	THR	1879	85.728	97.649	66.767	0.00	0.00
ATOM	28203	CB	THR	1879	87.495	98.427	67.519	0.00	0.00



ATOM	28204	HB	THR	1879	87.815	98.700	66.513	0.00	0.00
ATOM	28205	CG2	THR	1879	86.958	99.713	68.127	0.00	0.00
ATOM	28206	1HG2	THR	1879	86.104	100.169	67.628	0.00	0.00
ATOM	28207	2HG2	THR	1879	86.700	99.577	69.177	0.00	0.00
ATOM	28208	3HG2	THR	1879	87.818	100.382	68.155	0.00	0.00
ATOM	28209	OG1	THR	1879	88.681	97.976	68.233	0.00	0.00
ATOM	28210	HG1	THR	1879	88.759	98.509	69.028	0.00	0.00
ATOM	28211	C	THR	1879	87.183	96.164	66.465	0.00	0.00
ATOM	28212	O	THR	1879	87.517	96.446	65.324	0.00	0.00
ATOM	28213	N	H21	1880	87.562	95.010	66.926	0.00	0.00
ATOM	28214	H	H21	1880	87.585	94.848	67.922	0.00	0.00
ATOM	28215	CA	H21	1880	88.481	94.041	66.305	0.00	0.00
ATOM	28216	HA	H21	1880	88.471	94.238	65.233	0.00	0.00
ATOM	28217	CB	H21	1880	89.879	94.461	66.830	0.00	0.00
ATOM	28218	HB2	H21	1880	89.927	95.548	66.893	0.00	0.00
ATOM	28219	HB3	H21	1880	90.080	93.974	67.784	0.00	0.00
ATOM	28220	CG	H21	1880	90.992	94.065	65.958	0.00	0.00
ATOM	28221	ND1	H21	1880	91.989	94.908	65.425	0.00	0.00
ATOM	28222	HD1	H21	1880	92.054	95.914	65.477	0.00	0.00
ATOM	28223	CE1	H21	1880	93.081	94.171	65.031	0.00	0.00
ATOM	28224	HE1	H21	1880	94.007	94.582	64.657	0.00	0.00
ATOM	28225	NE2	H21	1880	92.737	92.862	65.193	0.00	0.00
ATOM	28226	CD2	H21	1880	91.442	92.856	65.755	0.00	0.00
ATOM	28227	HD2	H21	1880	90.947	91.955	66.086	0.00	0.00
ATOM	28228	C	H21	1880	88.074	92.627	66.630	0.00	0.00
ATOM	28229	O	H21	1880	88.930	91.975	67.161	0.00	0.00

ATOM	28230	N	ILE	1881	86.876	92.132	66.279	0.00	0.00
ATOM	28231	H	ILE	1881	86.261	92.869	65.965	0.00	0.00
ATOM	28232	CA	ILE	1881	86.468	90.778	66.440	0.00	0.00
ATOM	28233	HA	ILE	1881	86.990	90.373	67.307	0.00	0.00
ATOM	28234	CB	ILE	1881	84.986	90.733	66.690	0.00	0.00
ATOM	28235	HB	ILE	1881	84.426	91.380	66.014	0.00	0.00
ATOM	28236	CG2	ILE	1881	84.508	89.272	66.500	0.00	0.00
ATOM	28237	1HG2	ILE	1881	84.992	88.521	67.124	0.00	0.00
ATOM	28238	2HG2	ILE	1881	83.461	89.215	66.799	0.00	0.00
ATOM	28239	3HG2	ILE	1881	84.650	88.949	65.468	0.00	0.00
ATOM	28240	CG1	ILE	1881	84.706	91.287	68.121	0.00	0.00
ATOM	28241	2HG1	ILE	1881	85.322	92.177	68.254	0.00	0.00
ATOM	28242	3HG1	ILE	1881	83.674	91.633	68.077	0.00	0.00
ATOM	28243	CD1	ILE	1881	84.834	90.380	69.357	0.00	0.00
ATOM	28244	1HD1	ILE	1881	84.010	89.680	69.219	0.00	0.00
ATOM	28245	2HD1	ILE	1881	85.806	89.911	69.507	0.00	0.00
ATOM	28246	3HD1	ILE	1881	84.646	91.086	70.166	0.00	0.00
ATOM	28247	C	ILE	1881	86.858	89.927	65.240	0.00	0.00
ATOM	28248	O	ILE	1881	86.343	90.204	64.150	0.00	0.00
ATOM	28249	N	H22	1882	87.733	88.976	65.438	0.00	0.00
ATOM	28250	H	H22	1882	87.909	88.747	66.406	0.00	0.00
ATOM	28251	CA	H22	1882	88.140	88.097	64.344	0.00	0.00
ATOM	28252	HA	H22	1882	88.140	88.615	63.385	0.00	0.00
ATOM	28253	CB	H22	1882	89.611	87.707	64.737	0.00	0.00
ATOM	28254	HB2	H22	1882	89.749	87.580	65.811	0.00	0.00
ATOM	28255	HB3	H22	1882	89.885	86.835	64.144	0.00	0.00

ATOM	28256	CG	H22	1882	90.682	88.648	64.272	0.00	0.00
ATOM	28257	ND1	H22	1882	91.450	88.464	63.083	0.00	0.00
ATOM	28258	HD1	H22	1882	91.148	87.846	62.344	0.00	0.00
ATOM	28259	CE1	H22	1882	92.466	89.309	63.054	0.00	0.00
ATOM	28260	HE1	H22	1882	93.283	89.308	62.348	0.00	0.00
ATOM	28261	NE2	H22	1882	92.416	89.971	64.202	0.00	0.00
ATOM	28262	CD2	H22	1882	91.382	89.535	65.000	0.00	0.00
ATOM	28263	HD2	H22	1882	91.240	89.831	66.029	0.00	0.00
ATOM	28264	C	H22	1882	87.182	86.846	64.231	0.00	0.00
ATOM	28265	O	H22	1882	87.120	85.972	65.065	0.00	0.00
ATOM	28266	N	TRP	1883	86.602	86.645	63.021	0.00	0.00
ATOM	28267	H	TRP	1883	86.839	87.389	62.380	0.00	0.00
ATOM	28268	CA	TRP	1883	85.535	85.744	62.752	0.00	0.00
ATOM	28269	HA	TRP	1883	85.030	85.653	63.713	0.00	0.00
ATOM	28270	CB	TRP	1883	84.435	86.241	61.803	0.00	0.00
ATOM	28271	HB2	TRP	1883	84.914	86.441	60.844	0.00	0.00
ATOM	28272	HB3	TRP	1883	83.761	85.410	61.595	0.00	0.00
ATOM	28273	CG	TRP	1883	83.585	87.385	62.214	0.00	0.00
ATOM	28274	CD1	TRP	1883	83.231	88.540	61.460	0.00	0.00
ATOM	28275	HD1	TRP	1883	83.588	88.724	60.457	0.00	0.00
ATOM	28276	NE1	TRP	1883	82.425	89.421	62.186	0.00	0.00
ATOM	28277	HE1	TRP	1883	82.098	90.310	61.836	0.00	0.00
ATOM	28278	CE2	TRP	1883	82.122	88.829	63.361	0.00	0.00
ATOM	28279	CZ2	TRP	1883	81.364	89.280	64.392	0.00	0.00
ATOM	28280	HZ2	TRP	1883	81.028	90.306	64.379	0.00	0.00
ATOM	28281	CH2	TRP	1883	81.251	88.478	65.529	0.00	0.00

ATOM	28282	HH2	TRP	1883	80.660	88.802	66.373	0.00	0.00
ATOM	28283	CZ3	TRP	1883	81.815	87.213	65.549	0.00	0.00
ATOM	28284	HZ3	TRP	1883	81.678	86.552	66.392	0.00	0.00
ATOM	28285	CE3	TRP	1883	82.594	86.732	64.483	0.00	0.00
ATOM	28286	HE3	TRP	1883	83.161	85.814	64.537	0.00	0.00
ATOM	28287	CD2	TRP	1883	82.770	87.542	63.379	0.00	0.00
ATOM	28288	C	TRP	1883	85.999	84.323	62.408	0.00	0.00
ATOM	28289	O	TRP	1883	85.687	83.723	61.430	0.00	0.00
ATOM	28290	N	ILE	1884	86.929	83.827	63.248	0.00	0.00
ATOM	28291	H	ILE	1884	87.121	84.312	64.113	0.00	0.00
ATOM	28292	CA	ILE	1884	87.505	82.435	63.215	0.00	0.00
ATOM	28293	HA	ILE	1884	87.707	82.053	62.214	0.00	0.00
ATOM	28294	CB	ILE	1884	88.901	82.392	63.895	0.00	0.00
ATOM	28295	HB	ILE	1884	88.765	82.151	64.949	0.00	0.00
ATOM	28296	CG2	ILE	1884	89.565	81.152	63.149	0.00	0.00
ATOM	28297	1HG2	ILE	1884	90.613	81.105	63.443	0.00	0.00
ATOM	28298	2HG2	ILE	1884	88.994	80.248	63.361	0.00	0.00
ATOM	28299	3HG2	ILE	1884	89.571	81.376	62.083	0.00	0.00
ATOM	28300	CG1	ILE	1884	89.697	83.704	63.978	0.00	0.00
ATOM	28301	2HG1	ILE	1884	89.718	84.153	62.985	0.00	0.00
ATOM	28302	3HG1	ILE	1884	89.149	84.457	64.544	0.00	0.00
ATOM	28303	CD1	ILE	1884	91.116	83.540	64.462	0.00	0.00
ATOM	28304	1HD1	ILE	1884	91.232	83.111	65.458	0.00	0.00
ATOM	28305	2HD1	ILE	1884	91.716	82.915	63.801	0.00	0.00
ATOM	28306	3HD1	ILE	1884	91.406	84.567	64.683	0.00	0.00
ATOM	28307	C	ILE	1884	86.534	81.407	63.802	0.00	0.00

ATOM	28308	O	ILE	1884	86.431	80.311	63.284	0.00	0.00
ATOM	28309	N	CYS	1885	85.719	81.773	64.784	0.00	0.00
ATOM	28310	H	CYS	1885	85.931	82.644	65.249	0.00	0.00
ATOM	28311	CA	CYS	1885	84.607	81.018	65.219	0.00	0.00
ATOM	28312	HA	CYS	1885	84.427	80.289	64.429	0.00	0.00
ATOM	28313	CB	CYS	1885	85.028	80.211	66.515	0.00	0.00
ATOM	28314	HB2	CYS	1885	84.464	79.283	66.601	0.00	0.00
ATOM	28315	HB3	CYS	1885	86.088	79.961	66.573	0.00	0.00
ATOM	28316	SG	CYS	1885	84.559	81.165	68.000	0.00	0.00
ATOM	28317	HG	CYS	1885	85.211	82.280	67.657	0.00	0.00
ATOM	28318	C	CYS	1885	83.254	81.729	65.458	0.00	0.00
ATOM	28319	O	CYS	1885	83.192	82.894	65.769	0.00	0.00
ATOM	28320	N	PRO	1886	82.065	81.033	65.406	0.00	0.00
ATOM	28321	CD	PRO	1886	81.868	79.724	64.870	0.00	0.00
ATOM	28322	HD2	PRO	1886	82.075	79.818	63.804	0.00	0.00
ATOM	28323	HD3	PRO	1886	82.496	78.955	65.320	0.00	0.00
ATOM	28324	CG	PRO	1886	80.370	79.485	64.930	0.00	0.00
ATOM	28325	HG2	PRO	1886	80.013	79.112	63.970	0.00	0.00
ATOM	28326	HG3	PRO	1886	80.183	78.810	65.765	0.00	0.00
ATOM	28327	CB	PRO	1886	79.705	80.766	65.259	0.00	0.00
ATOM	28328	HB2	PRO	1886	79.421	81.167	64.286	0.00	0.00
ATOM	28329	HB3	PRO	1886	78.789	80.694	65.846	0.00	0.00
ATOM	28330	CA	PRO	1886	80.782	81.578	65.944	0.00	0.00
ATOM	28331	HA	PRO	1886	80.673	82.625	65.662	0.00	0.00
ATOM	28332	C	PRO	1886	80.633	81.308	67.450	0.00	0.00
ATOM	28333	O	PRO	1886	79.792	82.031	68.006	0.00	0.00

ATOM	28334	N	GLN	1887	81.397	80.568	68.227	0.00	0.00
ATOM	28335	H	GLN	1887	82.054	79.967	67.751	0.00	0.00
ATOM	28336	CA	GLN	1887	81.209	80.418	69.740	0.00	0.00
ATOM	28337	HA	GLN	1887	80.151	80.190	69.868	0.00	0.00
ATOM	28338	CB	GLN	1887	82.095	79.428	70.419	0.00	0.00
ATOM	28339	HB2	GLN	1887	83.148	79.697	70.344	0.00	0.00
ATOM	28340	HB3	GLN	1887	81.913	79.592	71.481	0.00	0.00
ATOM	28341	CG	GLN	1887	81.817	77.975	70.098	0.00	0.00
ATOM	28342	HG2	GLN	1887	82.358	77.292	70.753	0.00	0.00
ATOM	28343	HG3	GLN	1887	80.834	77.775	70.526	0.00	0.00
ATOM	28344	CD	GLN	1887	82.153	77.525	68.692	0.00	0.00
ATOM	28345	OE1	GLN	1887	83.295	77.486	68.272	0.00	0.00
ATOM	28346	NE2	GLN	1887	81.148	77.162	67.949	0.00	0.00
ATOM	28347	1HE2	GLN	1887	81.343	76.808	67.023	0.00	0.00
ATOM	28348	2HE2	GLN	1887	80.199	77.248	68.283	0.00	0.00
ATOM	28349	C	GLN	1887	81.302	81.788	70.463	0.00	0.00
ATOM	28350	O	GLN	1887	80.645	82.012	71.429	0.00	0.00
ATOM	28351	N	GLN	1888	82.238	82.680	70.094	0.00	0.00
ATOM	28352	H	GLN	1888	82.812	82.358	69.328	0.00	0.00
ATOM	28353	CA	GLN	1888	82.494	84.003	70.695	0.00	0.00
ATOM	28354	HA	GLN	1888	82.856	83.915	71.720	0.00	0.00
ATOM	28355	CB	GLN	1888	83.626	84.765	69.940	0.00	0.00
ATOM	28356	HB2	GLN	1888	83.782	85.684	70.505	0.00	0.00
ATOM	28357	HB3	GLN	1888	84.520	84.160	70.090	0.00	0.00
ATOM	28358	CG	GLN	1888	83.441	85.091	68.477	0.00	0.00
ATOM	28359	HG2	GLN	1888	83.221	84.114	68.046	0.00	0.00

ATOM	28360	HG3	GLN	1888	82.610	85.791	68.398	0.00	0.00
ATOM	28361	CD	GLN	1888	84.702	85.638	67.855	0.00	0.00
ATOM	28362	OE1	GLN	1888	85.577	86.303	68.367	0.00	0.00
ATOM	28363	NE2	GLN	1888	84.849	85.272	66.612	0.00	0.00
ATOM	28364	1HE2	GLN	1888	85.824	85.375	66.371	0.00	0.00
ATOM	28365	2HE2	GLN	1888	84.290	84.569	66.148	0.00	0.00
ATOM	28366	C	GLN	1888	81.194	84.743	70.908	0.00	0.00
ATOM	28367	O	GLN	1888	81.115	85.562	71.791	0.00	0.00
ATOM	28368	N	ALA	1889	80.185	84.546	70.076	0.00	0.00
ATOM	28369	H	ALA	1889	80.304	83.826	69.378	0.00	0.00
ATOM	28370	CA	ALA	1889	78.984	85.363	69.992	0.00	0.00
ATOM	28371	HA	ALA	1889	79.222	86.419	70.117	0.00	0.00
ATOM	28372	CB	ALA	1889	78.454	85.193	68.600	0.00	0.00
ATOM	28373	HB1	ALA	1889	79.181	85.631	67.915	0.00	0.00
ATOM	28374	HB2	ALA	1889	78.013	84.201	68.501	0.00	0.00
ATOM	28375	HB3	ALA	1889	77.589	85.836	68.439	0.00	0.00
ATOM	28376	C	ALA	1889	77.920	85.009	71.084	0.00	0.00
ATOM	28377	O	ALA	1889	76.842	85.531	71.132	0.00	0.00
ATOM	28378	N	GLU	1890	78.160	83.984	71.847	0.00	0.00
ATOM	28379	H	GLU	1890	79.021	83.525	71.586	0.00	0.00
ATOM	28380	CA	GLU	1890	77.176	83.261	72.759	0.00	0.00
ATOM	28381	HA	GLU	1890	76.339	83.886	73.068	0.00	0.00
ATOM	28382	CB	GLU	1890	76.503	82.156	71.959	0.00	0.00
ATOM	28383	HB2	GLU	1890	77.185	81.364	71.648	0.00	0.00
ATOM	28384	HB3	GLU	1890	75.835	81.643	72.651	0.00	0.00
ATOM	28385	CG	GLU	1890	75.608	82.586	70.786	0.00	0.00

ATOM	28386	HG2	GLU	1890	75.001	83.437	71.095	0.00	0.00
ATOM	28387	HG3	GLU	1890	76.170	83.242	70.121	0.00	0.00
ATOM	28388	CD	GLU	1890	74.801	81.506	70.018	0.00	0.00
ATOM	28389	OE1	GLU	1890	75.188	81.116	68.877	0.00	0.00
ATOM	28390	OE2	GLU	1890	73.783	81.117	70.558	0.00	0.00
ATOM	28391	C	GLU	1890	77.841	82.675	74.044	0.00	0.00
ATOM	28392	O	GLU	1890	77.217	82.819	75.097	0.00	0.00
ATOM	28393	N	GLU	1891	79.115	82.158	73.919	0.00	0.00
ATOM	28394	H	GLU	1891	79.488	82.021	72.991	0.00	0.00
ATOM	28395	CA	GLU	1891	79.860	81.683	75.081	0.00	0.00
ATOM	28396	HA	GLU	1891	79.233	81.193	75.826	0.00	0.00
ATOM	28397	CB	GLU	1891	80.937	80.637	74.733	0.00	0.00
ATOM	28398	HB2	GLU	1891	81.393	80.130	75.584	0.00	0.00
ATOM	28399	HB3	GLU	1891	81.674	81.160	74.124	0.00	0.00
ATOM	28400	CG	GLU	1891	80.364	79.498	73.869	0.00	0.00
ATOM	28401	HG2	GLU	1891	79.815	79.982	73.061	0.00	0.00
ATOM	28402	HG3	GLU	1891	81.219	78.941	73.487	0.00	0.00
ATOM	28403	CD	GLU	1891	79.453	78.533	74.612	0.00	0.00
ATOM	28404	OE1	GLU	1891	78.359	78.854	75.194	0.00	0.00
ATOM	28405	OE2	GLU	1891	79.948	77.378	74.568	0.00	0.00
ATOM	28406	C	GLU	1891	80.716	82.792	75.847	0.00	0.00
ATOM	28407	O	GLU	1891	80.888	82.565	77.035	0.00	0.00
ATOM	28408	N	ALA	1892	81.162	83.869	75.222	0.00	0.00
ATOM	28409	H	ALA	1892	80.915	84.020	74.255	0.00	0.00
ATOM	28410	CA	ALA	1892	81.913	85.031	75.749	0.00	0.00
ATOM	28411	HA	ALA	1892	82.158	84.731	76.768	0.00	0.00



ATOM 28412	CB	ALA	1892	83.197	85.172	74.967	0.00	0.00
ATOM 28413	HB1	ALA	1892	83.007	85.763	74.071	0.00	0.00
ATOM 28414	HB2	ALA	1892	83.936	85.743	75.530	0.00	0.00
ATOM 28415	HB3	ALA	1892	83.596	84.175	74.778	0.00	0.00
ATOM 28416	C	ALA	1892	81.031	86.283	75.728	0.00	0.00
ATOM 28417	O	ALA	1892	81.591	87.261	76.253	0.00	0.00
ATOM 28418	N	LEU	1893	79.733	86.261	75.430	0.00	0.00
ATOM 28419	H	LEU	1893	79.307	85.431	75.042	0.00	0.00
ATOM 28420	CA	LEU	1893	78.783	87.382	75.625	0.00	0.00
ATOM 28421	HA	LEU	1893	79.060	88.305	75.116	0.00	0.00
ATOM 28422	CB	LEU	1893	77.404	86.802	75.100	0.00	0.00
ATOM 28423	HB2	LEU	1893	77.555	85.874	74.549	0.00	0.00
ATOM 28424	HB3	LEU	1893	76.809	86.455	75.944	0.00	0.00
ATOM 28425	CG	LEU	1893	76.689	87.815	74.243	0.00	0.00
ATOM 28426	HG	LEU	1893	77.227	88.040	73.322	0.00	0.00
ATOM 28427	CD1	LEU	1893	75.278	87.241	73.821	0.00	0.00
ATOM 28428	1HD1	LEU	1893	74.928	87.807	72.957	0.00	0.00
ATOM 28429	2HD1	LEU	1893	75.272	86.186	73.550	0.00	0.00
ATOM 28430	3HD1	LEU	1893	74.540	87.380	74.612	0.00	0.00
ATOM 28431	CD2	LEU	1893	76.319	89.167	74.915	0.00	0.00
ATOM 28432	1HD2	LEU	1893	75.738	88.943	75.810	0.00	0.00
ATOM 28433	2HD2	LEU	1893	77.239	89.690	75.174	0.00	0.00
ATOM 28434	3HD2	LEU	1893	75.731	89.853	74.305	0.00	0.00
ATOM 28435	C	LEU	1893	78.631	87.815	77.078	0.00	0.00
ATOM 28436	O	LEU	1893	78.487	89.040	77.456	0.00	0.00
ATOM 28437	N	VAL	1894	78.795	86.790	77.957	0.00	0.00

ATOM	28438	H	VAL	1894	78.822	85.901	77.478	0.00	0.00
ATOM	28439	CA	VAL	1894	79.008	86.973	79.411	0.00	0.00
ATOM	28440	HA	VAL	1894	78.068	87.357	79.807	0.00	0.00
ATOM	28441	CB	VAL	1894	79.260	85.556	80.106	0.00	0.00
ATOM	28442	HB	VAL	1894	79.133	85.704	81.178	0.00	0.00
ATOM	28443	CG1	VAL	1894	78.169	84.483	79.724	0.00	0.00
ATOM	28444	1HG1	VAL	1894	78.069	84.305	78.653	0.00	0.00
ATOM	28445	2HG1	VAL	1894	78.415	83.492	80.106	0.00	0.00
ATOM	28446	3HG1	VAL	1894	77.269	84.807	80.247	0.00	0.00
ATOM	28447	CG2	VAL	1894	80.571	84.993	79.840	0.00	0.00
ATOM	28448	1HG2	VAL	1894	80.627	84.022	80.332	0.00	0.00
ATOM	28449	2HG2	VAL	1894	80.763	84.916	78.770	0.00	0.00
ATOM	28450	3HG2	VAL	1894	81.372	85.618	80.233	0.00	0.00
ATOM	28451	C	VAL	1894	80.066	87.937	79.876	0.00	0.00
ATOM	28452	O	VAL	1894	80.017	88.237	81.070	0.00	0.00
ATOM	28453	N	SER	1895	81.046	88.412	79.032	0.00	0.00
ATOM	28454	H	SER	1895	81.046	88.023	78.100	0.00	0.00
ATOM	28455	CA	SER	1895	81.921	89.530	79.308	0.00	0.00
ATOM	28456	HA	SER	1895	82.720	89.316	80.017	0.00	0.00
ATOM	28457	CB	SER	1895	82.732	89.754	78.049	0.00	0.00
ATOM	28458	HB2	SER	1895	83.411	90.586	78.233	0.00	0.00
ATOM	28459	HB3	SER	1895	83.347	88.869	77.887	0.00	0.00
ATOM	28460	OG	SER	1895	82.119	89.888	76.775	0.00	0.00
ATOM	28461	HG	SER	1895	81.901	88.993	76.505	0.00	0.00
ATOM	28462	C	SER	1895	81.242	90.798	79.605	0.00	0.00
ATOM	28463	O	SER	1895	81.684	91.555	80.467	0.00	0.00

ATOM	28464	N	GLY	1896	80.087	91.006	78.988	0.00	0.00
ATOM	28465	H	GLY	1896	79.765	90.203	78.468	0.00	0.00
ATOM	28466	CA	GLY	1896	79.344	92.310	78.932	0.00	0.00
ATOM	28467	HA2	GLY	1896	78.296	92.045	79.070	0.00	0.00
ATOM	28468	HA3	GLY	1896	79.749	93.005	79.668	0.00	0.00
ATOM	28469	C	GLY	1896	79.483	93.027	77.610	0.00	0.00
ATOM	28470	O	GLY	1896	79.169	94.272	77.465	0.00	0.00
ATOM	28471	N	VAL	1897	80.119	92.381	76.612	0.00	0.00
ATOM	28472	H	VAL	1897	80.396	91.414	76.709	0.00	0.00
ATOM	28473	CA	VAL	1897	80.340	92.866	75.195	0.00	0.00
ATOM	28474	HA	VAL	1897	80.360	93.955	75.230	0.00	0.00
ATOM	28475	CB	VAL	1897	81.720	92.546	74.622	0.00	0.00
ATOM	28476	HB	VAL	1897	81.844	91.477	74.445	0.00	0.00
ATOM	28477	CG1	VAL	1897	82.008	93.311	73.297	0.00	0.00
ATOM	28478	1HG1	VAL	1897	81.986	94.397	73.383	0.00	0.00
ATOM	28479	2HG1	VAL	1897	83.025	93.024	73.026	0.00	0.00
ATOM	28480	3HG1	VAL	1897	81.319	93.058	72.491	0.00	0.00
ATOM	28481	CG2	VAL	1897	82.853	92.921	75.600	0.00	0.00
ATOM	28482	1HG2	VAL	1897	82.783	92.177	76.393	0.00	0.00
ATOM	28483	2HG2	VAL	1897	83.862	92.935	75.188	0.00	0.00
ATOM	28484	3HG2	VAL	1897	82.792	93.908	76.059	0.00	0.00
ATOM	28485	C	VAL	1897	79.162	92.441	74.279	0.00	0.00
ATOM	28486	O	VAL	1897	78.990	91.335	73.831	0.00	0.00
ATOM	28487	N	THR	1898	78.211	93.363	74.068	0.00	0.00
ATOM	28488	H	THR	1898	78.379	94.256	74.509	0.00	0.00
ATOM	28489	CA	THR	1898	76.891	93.044	73.396	0.00	0.00

ATOM	28490	HA	THR	1898	76.940	91.957	73.463	0.00	0.00
ATOM	28491	CB	THR	1898	75.589	93.454	73.997	0.00	0.00
ATOM	28492	HB	THR	1898	74.760	93.039	73.425	0.00	0.00
ATOM	28493	CG2	THR	1898	75.449	92.953	75.388	0.00	0.00
ATOM	28494	1HG2	THR	1898	76.195	93.303	76.102	0.00	0.00
ATOM	28495	2HG2	THR	1898	74.473	93.275	75.749	0.00	0.00
ATOM	28496	3HG2	THR	1898	75.261	91.892	75.552	0.00	0.00
ATOM	28497	OG1	THR	1898	75.444	94.905	73.933	0.00	0.00
ATOM	28498	HG1	THR	1898	74.730	94.982	73.296	0.00	0.00
ATOM	28499	C	THR	1898	76.940	93.368	71.859	0.00	0.00
ATOM	28500	O	THR	1898	75.996	93.043	71.144	0.00	0.00
ATOM	28501	N	THR	1899	77.933	94.072	71.418	0.00	0.00
ATOM	28502	H	THR	1899	78.486	94.433	72.183	0.00	0.00
ATOM	28503	CA	THR	1899	78.188	94.391	70.037	0.00	0.00
ATOM	28504	HA	THR	1899	77.472	93.971	69.331	0.00	0.00
ATOM	28505	CB	THR	1899	77.964	95.867	69.919	0.00	0.00
ATOM	28506	HB	THR	1899	78.672	96.438	70.521	0.00	0.00
ATOM	28507	CG2	THR	1899	78.192	96.431	68.536	0.00	0.00
ATOM	28508	1HG2	THR	1899	79.218	96.414	68.167	0.00	0.00
ATOM	28509	2HG2	THR	1899	77.598	95.862	67.821	0.00	0.00
ATOM	28510	3HG2	THR	1899	77.890	97.478	68.490	0.00	0.00
ATOM	28511	OG1	THR	1899	76.750	96.230	70.486	0.00	0.00
ATOM	28512	HG1	THR	1899	76.837	96.146	71.438	0.00	0.00
ATOM	28513	C	THR	1899	79.524	93.943	69.544	0.00	0.00
ATOM	28514	O	THR	1899	80.478	94.015	70.364	0.00	0.00
ATOM	28515	N	MET	1900	79.613	93.559	68.255	0.00	0.00

ATOM 28516	H	MET	1900	78.753	93.451	67.736	0.00	0.00
ATOM 28517	CA	MET	1900	80.873	93.131	67.654	0.00	0.00
ATOM 28518	HA	MET	1900	81.744	93.356	68.269	0.00	0.00
ATOM 28519	CB	MET	1900	80.741	91.570	67.734	0.00	0.00
ATOM 28520	HB2	MET	1900	79.838	91.126	67.315	0.00	0.00
ATOM 28521	HB3	MET	1900	81.605	91.124	67.241	0.00	0.00
ATOM 28522	CG	MET	1900	80.903	91.070	69.115	0.00	0.00
ATOM 28523	HG2	MET	1900	81.865	91.433	69.479	0.00	0.00
ATOM 28524	HG3	MET	1900	80.114	91.443	69.767	0.00	0.00
ATOM 28525	SD	MET	1900	80.911	89.219	69.337	0.00	0.00
ATOM 28526	CE	MET	1900	81.181	89.086	71.132	0.00	0.00
ATOM 28527	HE1	MET	1900	81.606	88.103	71.333	0.00	0.00
ATOM 28528	HE2	MET	1900	81.847	89.839	71.552	0.00	0.00
ATOM 28529	HE3	MET	1900	80.209	89.081	71.624	0.00	0.00
ATOM 28530	C	MET	1900	81.150	93.630	66.200	0.00	0.00
ATOM 28531	O	MET	1900	80.556	93.171	65.263	0.00	0.00
ATOM 28532	N	VAL	1901	81.984	94.692	66.027	0.00	0.00
ATOM 28533	H	VAL	1901	82.406	95.156	66.819	0.00	0.00
ATOM 28534	CA	VAL	1901	82.626	95.076	64.759	0.00	0.00
ATOM 28535	HA	VAL	1901	81.782	95.064	64.070	0.00	0.00
ATOM 28536	CB	VAL	1901	83.235	96.484	64.711	0.00	0.00
ATOM 28537	HB	VAL	1901	84.158	96.584	65.282	0.00	0.00
ATOM 28538	CG1	VAL	1901	83.638	96.701	63.252	0.00	0.00
ATOM 28539	1HG1	VAL	1901	82.879	96.643	62.472	0.00	0.00
ATOM 28540	2HG1	VAL	1901	84.053	97.707	63.194	0.00	0.00
ATOM 28541	3HG1	VAL	1901	84.422	95.973	63.045	0.00	0.00

ATOM	28542	CG2	VAL	1901	82.181	97.531	65.177	0.00	0.00
ATOM	28543	1HG2	VAL	1901	81.856	97.449	66.215	0.00	0.00
ATOM	28544	2HG2	VAL	1901	82.628	98.516	65.045	0.00	0.00
ATOM	28545	3HG2	VAL	1901	81.348	97.499	64.475	0.00	0.00
ATOM	28546	C	VAL	1901	83.748	93.962	64.447	0.00	0.00
ATOM	28547	O	VAL	1901	84.587	93.692	65.285	0.00	0.00
ATOM	28548	N	GLY	1902	83.584	93.207	63.328	0.00	0.00
ATOM	28549	H	GLY	1902	82.776	93.479	62.786	0.00	0.00
ATOM	28550	CA	GLY	1902	84.520	92.187	63.049	0.00	0.00
ATOM	28551	HA2	GLY	1902	85.505	92.372	63.478	0.00	0.00
ATOM	28552	HA3	GLY	1902	84.251	91.238	63.512	0.00	0.00
ATOM	28553	C	GLY	1902	84.851	91.945	61.532	0.00	0.00
ATOM	28554	O	GLY	1902	84.212	92.526	60.686	0.00	0.00
ATOM	28555	N	GLY	1903	85.698	90.956	61.289	0.00	0.00
ATOM	28556	H	GLY	1903	85.959	90.533	62.168	0.00	0.00
ATOM	28557	CA	GLY	1903	86.101	90.384	59.997	0.00	0.00
ATOM	28558	HA2	GLY	1903	86.585	91.134	59.372	0.00	0.00
ATOM	28559	HA3	GLY	1903	85.117	90.365	59.528	0.00	0.00
ATOM	28560	C	GLY	1903	86.643	88.998	60.061	0.00	0.00
ATOM	28561	O	GLY	1903	87.402	88.659	61.004	0.00	0.00
ATOM	28562	N	GLY	1904	86.354	88.189	59.014	0.00	0.00
ATOM	28563	H	GLY	1904	85.937	88.535	58.162	0.00	0.00
ATOM	28564	CA	GLY	1904	86.850	86.794	58.848	0.00	0.00
ATOM	28565	HA2	GLY	1904	87.716	86.894	58.193	0.00	0.00
ATOM	28566	HA3	GLY	1904	86.957	86.293	59.810	0.00	0.00
ATOM	28567	C	GLY	1904	85.799	85.988	58.037	0.00	0.00

ATOM	28568	O	GLY	1904	84.727	86.502	57.626	0.00	0.00
ATOM	28569	N	THR	1905	85.879	84.697	58.107	0.00	0.00
ATOM	28570	H	THR	1905	86.794	84.367	58.379	0.00	0.00
ATOM	28571	CA	THR	1905	85.057	83.786	57.245	0.00	0.00
ATOM	28572	HA	THR	1905	84.062	84.171	57.024	0.00	0.00
ATOM	28573	CB	THR	1905	85.763	83.592	55.878	0.00	0.00
ATOM	28574	HB	THR	1905	85.084	82.936	55.333	0.00	0.00
ATOM	28575	CG2	THR	1905	86.105	84.831	55.099	0.00	0.00
ATOM	28576	1HG2	THR	1905	86.894	85.440	55.541	0.00	0.00
ATOM	28577	2HG2	THR	1905	86.389	84.518	54.094	0.00	0.00
ATOM	28578	3HG2	THR	1905	85.188	85.403	54.957	0.00	0.00
ATOM	28579	OG1	THR	1905	86.934	82.900	56.077	0.00	0.00
ATOM	28580	HG1	THR	1905	87.548	83.554	56.418	0.00	0.00
ATOM	28581	C	THR	1905	84.836	82.399	57.852	0.00	0.00
ATOM	28582	O	THR	1905	83.917	81.694	57.469	0.00	0.00
ATOM	28583	N	GLY	1906	85.654	81.955	58.845	0.00	0.00
ATOM	28584	H	GLY	1906	86.230	82.649	59.298	0.00	0.00
ATOM	28585	CA	GLY	1906	85.887	80.550	59.307	0.00	0.00
ATOM	28586	HA2	GLY	1906	85.188	80.393	60.129	0.00	0.00
ATOM	28587	HA3	GLY	1906	85.613	79.963	58.430	0.00	0.00
ATOM	28588	C	GLY	1906	87.314	80.218	59.730	0.00	0.00
ATOM	28589	O	GLY	1906	88.076	81.109	59.715	0.00	0.00
ATOM	28590	N	PRO	1907	87.663	78.990	60.217	0.00	0.00
ATOM	28591	CD	PRO	1907	86.760	77.974	60.722	0.00	0.00
ATOM	28592	HD2	PRO	1907	86.073	78.606	61.285	0.00	0.00
ATOM	28593	HD3	PRO	1907	86.334	77.380	59.913	0.00	0.00

ATOM 28594	CG	PRO	1907	87.618	77.110	61.664	0.00	0.00
ATOM 28595	HG2	PRO	1907	87.783	77.602	62.622	0.00	0.00
ATOM 28596	HG3	PRO	1907	87.281	76.101	61.903	0.00	0.00
ATOM 28597	CB	PRO	1907	88.955	77.121	60.957	0.00	0.00
ATOM 28598	HB2	PRO	1907	89.690	76.838	61.711	0.00	0.00
ATOM 28599	HB3	PRO	1907	88.973	76.461	60.090	0.00	0.00
ATOM 28600	CA	PRO	1907	89.072	78.590	60.466	0.00	0.00
ATOM 28601	HA	PRO	1907	89.508	79.203	61.255	0.00	0.00
ATOM 28602	C	PRO	1907	90.040	78.658	59.242	0.00	0.00
ATOM 28603	O	PRO	1907	90.740	77.700	58.841	0.00	0.00
ATOM 28604	N	ALA	1908	90.053	79.803	58.556	0.00	0.00
ATOM 28605	H	ALA	1908	89.506	80.588	58.878	0.00	0.00
ATOM 28606	CA	ALA	1908	90.889	80.119	57.377	0.00	0.00
ATOM 28607	HA	ALA	1908	91.114	79.160	56.911	0.00	0.00
ATOM 28608	CB	ALA	1908	89.883	80.857	56.378	0.00	0.00
ATOM 28609	HB1	ALA	1908	90.339	81.165	55.438	0.00	0.00
ATOM 28610	HB2	ALA	1908	89.046	80.208	56.123	0.00	0.00
ATOM 28611	HB3	ALA	1908	89.549	81.771	56.869	0.00	0.00
ATOM 28612	C	ALA	1908	92.149	80.952	57.736	0.00	0.00
ATOM 28613	O	ALA	1908	92.146	81.639	58.750	0.00	0.00
ATOM 28614	N	ALA	1909	93.023	81.025	56.789	0.00	0.00
ATOM 28615	H	ALA	1909	92.917	80.539	55.910	0.00	0.00
ATOM 28616	CA	ALA	1909	94.275	81.747	56.940	0.00	0.00
ATOM 28617	HA	ALA	1909	94.722	81.500	57.903	0.00	0.00
ATOM 28618	CB	ALA	1909	95.298	81.293	55.898	0.00	0.00
ATOM 28619	HB1	ALA	1909	95.017	81.667	54.914	0.00	0.00



ATOM	28620	HB2	ALA	1909	96.287	81.720	56.062	0.00	0.00
ATOM	28621	HB3	ALA	1909	95.450	80.228	56.075	0.00	0.00
ATOM	28622	C	ALA	1909	94.193	83.245	56.914	0.00	0.00
ATOM	28623	O	ALA	1909	94.892	83.845	57.752	0.00	0.00
ATOM	28624	N	GLY	1910	93.490	83.865	55.957	0.00	0.00
ATOM	28625	H	GLY	1910	92.921	83.403	55.262	0.00	0.00
ATOM	28626	CA	GLY	1910	93.291	85.294	56.061	0.00	0.00
ATOM	28627	HA2	GLY	1910	94.284	85.652	56.332	0.00	0.00
ATOM	28628	HA3	GLY	1910	92.818	85.757	55.195	0.00	0.00
ATOM	28629	C	GLY	1910	92.525	85.737	57.197	0.00	0.00
ATOM	28630	O	GLY	1910	92.738	86.742	57.848	0.00	0.00
ATOM	28631	N	THR	1911	91.580	84.871	57.659	0.00	0.00
ATOM	28632	H	THR	1911	91.145	84.366	56.900	0.00	0.00
ATOM	28633	CA	THR	1911	90.796	85.156	58.834	0.00	0.00
ATOM	28634	HA	THR	1911	90.404	86.169	58.750	0.00	0.00
ATOM	28635	CB	THR	1911	89.597	84.105	58.797	0.00	0.00
ATOM	28636	HB	THR	1911	90.063	83.130	58.654	0.00	0.00
ATOM	28637	CG2	THR	1911	88.737	84.204	59.968	0.00	0.00
ATOM	28638	1HG2	THR	1911	88.635	85.241	60.286	0.00	0.00
ATOM	28639	2HG2	THR	1911	87.807	83.685	59.736	0.00	0.00
ATOM	28640	3HG2	THR	1911	89.184	83.637	60.784	0.00	0.00
ATOM	28641	OG1	THR	1911	88.693	84.419	57.771	0.00	0.00
ATOM	28642	HG1	THR	1911	89.211	84.434	56.964	0.00	0.00
ATOM	28643	C	THR	1911	91.629	85.091	60.204	0.00	0.00
ATOM	28644	O	THR	1911	91.274	85.774	61.146	0.00	0.00
ATOM	28645	N	HIE	1912	92.638	84.166	60.260	0.00	0.00

ATOM	28646	H	HIE	1912	92.821	83.647	59.413	0.00	0.00
ATOM	28647	CA	HIE	1912	93.477	83.999	61.397	0.00	0.00
ATOM	28648	HA	HIE	1912	92.812	84.096	62.255	0.00	0.00
ATOM	28649	CB	HIE	1912	94.201	82.658	61.277	0.00	0.00
ATOM	28650	HB2	HIE	1912	93.474	81.889	61.539	0.00	0.00
ATOM	28651	HB3	HIE	1912	94.507	82.347	60.278	0.00	0.00
ATOM	28652	CG	HIE	1912	95.336	82.472	62.212	0.00	0.00
ATOM	28653	ND1	HIE	1912	96.445	81.676	61.961	0.00	0.00
ATOM	28654	CE1	HIE	1912	97.162	81.698	63.107	0.00	0.00
ATOM	28655	HE1	HIE	1912	98.029	81.092	63.324	0.00	0.00
ATOM	28656	NE2	HIE	1912	96.448	82.394	64.082	0.00	0.00
ATOM	28657	HE2	HIE	1912	96.600	82.381	65.080	0.00	0.00
ATOM	28658	CD2	HIE	1912	95.281	82.814	63.504	0.00	0.00
ATOM	28659	HD2	HIE	1912	94.607	83.505	63.990	0.00	0.00
ATOM	28660	C	HIE	1912	94.489	85.168	61.450	0.00	0.00
ATOM	28661	O	HIE	1912	94.934	85.557	62.519	0.00	0.00
ATOM	28662	N	ALA	1913	95.004	85.574	60.335	0.00	0.00
ATOM	28663	H	ALA	1913	94.659	85.147	59.487	0.00	0.00
ATOM	28664	CA	ALA	1913	95.969	86.658	60.184	0.00	0.00
ATOM	28665	HA	ALA	1913	96.762	86.629	60.931	0.00	0.00
ATOM	28666	CB	ALA	1913	96.614	86.445	58.784	0.00	0.00
ATOM	28667	HB1	ALA	1913	97.271	87.308	58.674	0.00	0.00
ATOM	28668	HB2	ALA	1913	97.186	85.522	58.686	0.00	0.00
ATOM	28669	HB3	ALA	1913	95.912	86.468	57.951	0.00	0.00
ATOM	28670	C	ALA	1913	95.209	88.046	60.358	0.00	0.00
ATOM	28671	O	ALA	1913	95.643	88.996	61.073	0.00	0.00

ATOM 28672	N	THR	1914	93.985	88.170	59.824	0.00	0.00
ATOM 28673	H	THR	1914	93.613	87.371	59.331	0.00	0.00
ATOM 28674	CA	THR	1914	93.445	89.532	59.507	0.00	0.00
ATOM 28675	HA	THR	1914	93.930	90.245	60.174	0.00	0.00
ATOM 28676	CB	THR	1914	93.759	89.995	58.116	0.00	0.00
ATOM 28677	HB	THR	1914	93.572	91.069	58.108	0.00	0.00
ATOM 28678	CG2	THR	1914	95.247	89.732	57.673	0.00	0.00
ATOM 28679	1HG2	THR	1914	95.466	90.196	56.712	0.00	0.00
ATOM 28680	2HG2	THR	1914	96.020	90.009	58.389	0.00	0.00
ATOM 28681	3HG2	THR	1914	95.404	88.691	57.392	0.00	0.00
ATOM 28682	OG1	THR	1914	92.779	89.419	57.206	0.00	0.00
ATOM 28683	HG1	THR	1914	92.706	88.475	57.364	0.00	0.00
ATOM 28684	C	THR	1914	92.002	89.608	59.822	0.00	0.00
ATOM 28685	O	THR	1914	91.256	88.645	59.918	0.00	0.00
ATOM 28686	N	THR	1915	91.523	90.823	60.004	0.00	0.00
ATOM 28687	H	THR	1915	92.107	91.647	60.021	0.00	0.00
ATOM 28688	CA	THR	1915	90.105	91.168	60.287	0.00	0.00
ATOM 28689	HA	THR	1915	89.630	90.212	60.506	0.00	0.00
ATOM 28690	CB	THR	1915	89.921	92.119	61.501	0.00	0.00
ATOM 28691	HB	THR	1915	89.824	93.171	61.233	0.00	0.00
ATOM 28692	CG2	THR	1915	88.903	91.609	62.488	0.00	0.00
ATOM 28693	1HG2	THR	1915	89.043	90.528	62.473	0.00	0.00
ATOM 28694	2HG2	THR	1915	88.920	91.974	63.515	0.00	0.00
ATOM 28695	3HG2	THR	1915	87.940	91.952	62.109	0.00	0.00
ATOM 28696	OG1	THR	1915	91.077	92.193	62.286	0.00	0.00
ATOM 28697	HG1	THR	1915	90.943	91.444	62.871	0.00	0.00

ATOM	28698	C	THR	1915	89.408	91.624	59.038	0.00	0.00
ATOM	28699	O	THR	1915	88.989	92.821	58.893	0.00	0.00
ATOM	28700	N	CYS	1916	89.356	90.741	58.033	0.00	0.00
ATOM	28701	H	CYS	1916	89.829	89.859	58.165	0.00	0.00
ATOM	28702	CA	CYS	1916	88.815	91.015	56.746	0.00	0.00
ATOM	28703	HA	CYS	1916	88.215	91.923	56.788	0.00	0.00
ATOM	28704	CB	CYS	1916	89.856	91.238	55.680	0.00	0.00
ATOM	28705	HB2	CYS	1916	90.338	90.285	55.465	0.00	0.00
ATOM	28706	HB3	CYS	1916	89.320	91.477	54.762	0.00	0.00
ATOM	28707	SG	CYS	1916	91.087	92.591	56.037	0.00	0.00
ATOM	28708	HG	CYS	1916	90.177	93.561	55.909	0.00	0.00
ATOM	28709	C	CYS	1916	87.845	89.885	56.326	0.00	0.00
ATOM	28710	O	CYS	1916	88.267	88.756	56.120	0.00	0.00
ATOM	28711	N	THR	1917	86.611	90.170	56.073	0.00	0.00
ATOM	28712	H	THR	1917	86.262	91.032	56.468	0.00	0.00
ATOM	28713	CA	THR	1917	85.709	89.414	55.238	0.00	0.00
ATOM	28714	HA	THR	1917	85.967	88.375	55.440	0.00	0.00
ATOM	28715	CB	THR	1917	84.261	89.529	55.748	0.00	0.00
ATOM	28716	HB	THR	1917	84.056	90.594	55.640	0.00	0.00
ATOM	28717	CG2	THR	1917	83.172	88.738	55.037	0.00	0.00
ATOM	28718	1HG2	THR	1917	82.187	88.901	55.476	0.00	0.00
ATOM	28719	2HG2	THR	1917	83.156	88.981	53.975	0.00	0.00
ATOM	28720	3HG2	THR	1917	83.467	87.702	55.205	0.00	0.00
ATOM	28721	OG1	THR	1917	84.065	89.247	57.120	0.00	0.00
ATOM	28722	HG1	THR	1917	84.034	88.300	57.274	0.00	0.00
ATOM	28723	C	THR	1917	85.885	89.714	53.767	0.00	0.00

ATOM 28724	O	THR	1917	85.430	90.802	53.439	0.00	0.00
ATOM 28725	N	PRO	1918	86.561	88.857	52.932	0.00	0.00
ATOM 28726	CD	PRO	1918	87.234	87.665	53.284	0.00	0.00
ATOM 28727	HD2	PRO	1918	86.639	86.894	52.794	0.00	0.00
ATOM 28728	HD3	PRO	1918	87.403	87.492	54.347	0.00	0.00
ATOM 28729	CG	PRO	1918	88.618	87.764	52.592	0.00	0.00
ATOM 28730	HG2	PRO	1918	89.329	88.427	53.085	0.00	0.00
ATOM 28731	HG3	PRO	1918	89.132	86.807	52.507	0.00	0.00
ATOM 28732	CB	PRO	1918	88.282	88.459	51.295	0.00	0.00
ATOM 28733	HB2	PRO	1918	89.183	88.858	50.830	0.00	0.00
ATOM 28734	HB3	PRO	1918	87.961	87.687	50.596	0.00	0.00
ATOM 28735	CA	PRO	1918	87.176	89.443	51.775	0.00	0.00
ATOM 28736	HA	PRO	1918	87.771	90.261	52.182	0.00	0.00
ATOM 28737	C	PRO	1918	86.184	89.914	50.672	0.00	0.00
ATOM 28738	O	PRO	1918	86.406	90.970	50.128	0.00	0.00
ATOM 28739	N	GLY	1919	85.270	89.029	50.293	0.00	0.00
ATOM 28740	H	GLY	1919	85.303	88.110	50.710	0.00	0.00
ATOM 28741	CA	GLY	1919	84.457	89.079	49.037	0.00	0.00
ATOM 28742	HA2	GLY	1919	84.830	89.868	48.384	0.00	0.00
ATOM 28743	HA3	GLY	1919	84.565	88.101	48.570	0.00	0.00
ATOM 28744	C	GLY	1919	82.886	89.035	49.296	0.00	0.00
ATOM 28745	O	GLY	1919	82.402	88.332	50.268	0.00	0.00
ATOM 28746	N	PRO	1920	82.078	89.623	48.414	0.00	0.00
ATOM 28747	CD	PRO	1920	82.621	90.395	47.281	0.00	0.00
ATOM 28748	HD2	PRO	1920	83.403	91.090	47.587	0.00	0.00
ATOM 28749	HD3	PRO	1920	83.056	89.763	46.508	0.00	0.00

ATOM 28750	CG	PRO	1920	81.392	91.015	46.713	0.00	0.00
ATOM 28751	HG2	PRO	1920	81.281	92.024	47.110	0.00	0.00
ATOM 28752	HG3	PRO	1920	81.496	90.989	45.629	0.00	0.00
ATOM 28753	CB	PRO	1920	80.155	90.254	47.058	0.00	0.00
ATOM 28754	HB2	PRO	1920	79.260	90.869	47.151	0.00	0.00
ATOM 28755	HB3	PRO	1920	80.119	89.538	46.237	0.00	0.00
ATOM 28756	CA	PRO	1920	80.569	89.727	48.433	0.00	0.00
ATOM 28757	HA	PRO	1920	80.128	90.411	49.157	0.00	0.00
ATOM 28758	C	PRO	1920	79.867	88.409	48.774	0.00	0.00
ATOM 28759	O	PRO	1920	78.895	88.487	49.512	0.00	0.00
ATOM 28760	N	TRP	1921	80.331	87.227	48.298	0.00	0.00
ATOM 28761	H	TRP	1921	80.941	87.239	47.493	0.00	0.00
ATOM 28762	CA	TRP	1921	79.733	85.961	48.669	0.00	0.00
ATOM 28763	HA	TRP	1921	78.671	86.062	48.446	0.00	0.00
ATOM 28764	CB	TRP	1921	80.279	84.937	47.698	0.00	0.00
ATOM 28765	HB2	TRP	1921	80.189	85.385	46.708	0.00	0.00
ATOM 28766	HB3	TRP	1921	81.349	84.747	47.784	0.00	0.00
ATOM 28767	CG	TRP	1921	79.583	83.577	47.719	0.00	0.00
ATOM 28768	CD1	TRP	1921	78.518	83.233	46.933	0.00	0.00
ATOM 28769	HD1	TRP	1921	78.126	83.943	46.220	0.00	0.00
ATOM 28770	NE1	TRP	1921	78.065	81.957	47.238	0.00	0.00
ATOM 28771	HE1	TRP	1921	77.317	81.449	46.787	0.00	0.00
ATOM 28772	CE2	TRP	1921	78.800	81.476	48.247	0.00	0.00
ATOM 28773	CZ2	TRP	1921	78.802	80.219	48.862	0.00	0.00
ATOM 28774	HZ2	TRP	1921	77.978	79.559	48.635	0.00	0.00
ATOM 28775	CH2	TRP	1921	79.840	79.823	49.723	0.00	0.00

ATOM 28776	HH2	TRP	1921	79.924	78.837	50.156	0.00	0.00
ATOM 28777	CZ3	TRP	1921	80.721	80.806	50.145	0.00	0.00
ATOM 28778	HZ3	TRP	1921	81.459	80.638	50.916	0.00	0.00
ATOM 28779	CE3	TRP	1921	80.799	82.056	49.537	0.00	0.00
ATOM 28780	HE3	TRP	1921	81.567	82.808	49.642	0.00	0.00
ATOM 28781	CD2	TRP	1921	79.909	82.362	48.493	0.00	0.00
ATOM 28782	C	TRP	1921	79.964	85.563	50.137	0.00	0.00
ATOM 28783	O	TRP	1921	79.007	85.340	50.899	0.00	0.00
ATOM 28784	N	TYR	1922	81.157	85.759	50.644	0.00	0.00
ATOM 28785	H	TYR	1922	81.787	86.315	50.083	0.00	0.00
ATOM 28786	CA	TYR	1922	81.452	85.667	52.066	0.00	0.00
ATOM 28787	HA	TYR	1922	80.989	84.722	52.349	0.00	0.00
ATOM 28788	CB	TYR	1922	82.976	85.554	52.213	0.00	0.00
ATOM 28789	HB2	TYR	1922	83.385	86.052	51.334	0.00	0.00
ATOM 28790	HB3	TYR	1922	83.351	86.246	52.967	0.00	0.00
ATOM 28791	CG	TYR	1922	83.417	84.122	52.463	0.00	0.00
ATOM 28792	CD1	TYR	1922	83.863	83.313	51.402	0.00	0.00
ATOM 28793	HD1	TYR	1922	84.032	83.727	50.418	0.00	0.00
ATOM 28794	CE1	TYR	1922	84.173	81.938	51.604	0.00	0.00
ATOM 28795	HE1	TYR	1922	84.624	81.317	50.844	0.00	0.00
ATOM 28796	CZ	TYR	1922	84.048	81.422	52.885	0.00	0.00
ATOM 28797	OH	TYR	1922	84.381	80.148	53.178	0.00	0.00
ATOM 28798	HH	TYR	1922	84.713	79.623	52.446	0.00	0.00
ATOM 28799	CE2	TYR	1922	83.393	82.182	53.896	0.00	0.00
ATOM 28800	HE2	TYR	1922	83.172	81.704	54.839	0.00	0.00
ATOM 28801	CD2	TYR	1922	83.138	83.515	53.741	0.00	0.00

ATOM 28802	HD2	TYR	1922	82.604	84.040	54.519	0.00	0.00
ATOM 28803	C	TYR	1922	80.867	86.812	52.857	0.00	0.00
ATOM 28804	O	TYR	1922	80.490	86.547	54.009	0.00	0.00
ATOM 28805	N	ILE	1923	80.660	88.050	52.338	0.00	0.00
ATOM 28806	H	ILE	1923	80.816	88.183	51.349	0.00	0.00
ATOM 28807	CA	ILE	1923	80.116	89.182	53.055	0.00	0.00
ATOM 28808	HA	ILE	1923	80.443	89.180	54.094	0.00	0.00
ATOM 28809	CB	ILE	1923	80.335	90.565	52.291	0.00	0.00
ATOM 28810	HB	ILE	1923	79.904	90.480	51.294	0.00	0.00
ATOM 28811	CG2	ILE	1923	79.564	91.780	52.883	0.00	0.00
ATOM 28812	1HG2	ILE	1923	80.112	92.176	53.738	0.00	0.00
ATOM 28813	2HG2	ILE	1923	79.566	92.574	52.135	0.00	0.00
ATOM 28814	3HG2	ILE	1923	78.527	91.663	53.197	0.00	0.00
ATOM 28815	CG1	ILE	1923	81.851	90.945	52.186	0.00	0.00
ATOM 28816	2HG1	ILE	1923	82.321	91.212	53.133	0.00	0.00
ATOM 28817	3HG1	ILE	1923	82.384	90.023	51.955	0.00	0.00
ATOM 28818	CD1	ILE	1923	82.269	92.013	51.165	0.00	0.00
ATOM 28819	1HD1	ILE	1923	83.350	92.152	51.160	0.00	0.00
ATOM 28820	2HD1	ILE	1923	82.067	91.535	50.207	0.00	0.00
ATOM 28821	3HD1	ILE	1923	81.880	93.011	51.368	0.00	0.00
ATOM 28822	C	ILE	1923	78.579	88.856	53.263	0.00	0.00
ATOM 28823	O	ILE	1923	78.062	88.920	54.346	0.00	0.00
ATOM 28824	N	SER	1924	77.935	88.316	52.158	0.00	0.00
ATOM 28825	H	SER	1924	78.397	88.225	51.264	0.00	0.00
ATOM 28826	CA	SER	1924	76.583	87.787	52.269	0.00	0.00
ATOM 28827	HA	SER	1924	75.973	88.566	52.728	0.00	0.00



ATOM 28828	CB	SER	1924	76.028	87.335	50.963	0.00	0.00
ATOM 28829	HB2	SER	1924	76.571	86.547	50.442	0.00	0.00
ATOM 28830	HB3	SER	1924	74.990	87.000	50.967	0.00	0.00
ATOM 28831	OG	SER	1924	76.206	88.498	50.145	0.00	0.00
ATOM 28832	HG	SER	1924	77.132	88.502	49.893	0.00	0.00
ATOM 28833	C	SER	1924	76.371	86.599	53.169	0.00	0.00
ATOM 28834	O	SER	1924	75.473	86.682	53.969	0.00	0.00
ATOM 28835	N	ARG	1925	77.254	85.538	53.190	0.00	0.00
ATOM 28836	H	ARG	1925	78.146	85.579	52.719	0.00	0.00
ATOM 28837	CA	ARG	1925	77.202	84.428	54.166	0.00	0.00
ATOM 28838	HA	ARG	1925	76.243	83.910	54.176	0.00	0.00
ATOM 28839	CB	ARG	1925	78.173	83.359	53.742	0.00	0.00
ATOM 28840	HB2	ARG	1925	78.453	82.775	54.619	0.00	0.00
ATOM 28841	HB3	ARG	1925	79.076	83.826	53.348	0.00	0.00
ATOM 28842	CG	ARG	1925	77.585	82.338	52.766	0.00	0.00
ATOM 28843	HG2	ARG	1925	78.361	81.573	52.740	0.00	0.00
ATOM 28844	HG3	ARG	1925	76.703	81.941	53.268	0.00	0.00
ATOM 28845	CD	ARG	1925	77.250	82.769	51.364	0.00	0.00
ATOM 28846	HD2	ARG	1925	78.023	83.302	50.810	0.00	0.00
ATOM 28847	HD3	ARG	1925	77.116	81.865	50.771	0.00	0.00
ATOM 28848	NE	ARG	1925	76.022	83.554	51.195	0.00	0.00
ATOM 28849	HE	ARG	1925	75.387	83.697	51.968	0.00	0.00
ATOM 28850	CZ	ARG	1925	75.590	84.039	50.012	0.00	0.00
ATOM 28851	NH1	ARG	1925	74.371	84.431	49.964	0.00	0.00
ATOM 28852	1HH1	ARG	1925	73.952	84.735	49.097	0.00	0.00
ATOM 28853	2HH1	ARG	1925	73.876	84.379	50.842	0.00	0.00

ATOM 28854	NH2	ARG	1925	76.283	84.032	48.847	0.00	0.00
ATOM 28855	1HH2	ARG	1925	75.852	84.421	48.021	0.00	0.00
ATOM 28856	2HH2	ARG	1925	77.215	83.644	48.870	0.00	0.00
ATOM 28857	C	ARG	1925	77.554	84.924	55.574	0.00	0.00
ATOM 28858	O	ARG	1925	76.803	84.514	56.423	0.00	0.00
ATOM 28859	N	MET	1926	78.610	85.774	55.816	0.00	0.00
ATOM 28860	H	MET	1926	79.249	86.052	55.085	0.00	0.00
ATOM 28861	CA	MET	1926	78.785	86.383	57.201	0.00	0.00
ATOM 28862	HA	MET	1926	78.881	85.602	57.956	0.00	0.00
ATOM 28863	CB	MET	1926	80.122	87.082	57.239	0.00	0.00
ATOM 28864	HB2	MET	1926	80.244	87.854	56.479	0.00	0.00
ATOM 28865	HB3	MET	1926	80.020	87.542	58.222	0.00	0.00
ATOM 28866	CG	MET	1926	81.437	86.165	57.220	0.00	0.00
ATOM 28867	HG2	MET	1926	81.597	85.747	56.226	0.00	0.00
ATOM 28868	HG3	MET	1926	82.331	86.707	57.531	0.00	0.00
ATOM 28869	SD	MET	1926	81.199	84.725	58.423	0.00	0.00
ATOM 28870	CE	MET	1926	81.269	85.748	59.888	0.00	0.00
ATOM 28871	HE1	MET	1926	80.566	86.581	59.914	0.00	0.00
ATOM 28872	HE2	MET	1926	81.157	85.055	60.722	0.00	0.00
ATOM 28873	HE3	MET	1926	82.299	86.093	59.979	0.00	0.00
ATOM 28874	C	MET	1926	77.623	87.351	57.632	0.00	0.00
ATOM 28875	O	MET	1926	77.501	87.508	58.820	0.00	0.00
ATOM 28876	N	LEU	1927	76.796	87.968	56.725	0.00	0.00
ATOM 28877	H	LEU	1927	77.006	88.131	55.751	0.00	0.00
ATOM 28878	CA	LEU	1927	75.570	88.587	57.104	0.00	0.00
ATOM 28879	HA	LEU	1927	75.604	89.177	58.020	0.00	0.00

ATOM 28880	CB	LEU	1927	74.989	89.530	56.079	0.00	0.00
ATOM 28881	HB2	LEU	1927	75.032	89.087	55.084	0.00	0.00
ATOM 28882	HB3	LEU	1927	73.935	89.585	56.354	0.00	0.00
ATOM 28883	CG	LEU	1927	75.693	90.879	56.087	0.00	0.00
ATOM 28884	HG	LEU	1927	76.773	90.735	56.059	0.00	0.00
ATOM 28885	CD1	LEU	1927	75.175	91.795	54.950	0.00	0.00
ATOM 28886	1HD1	LEU	1927	75.538	91.315	54.041	0.00	0.00
ATOM 28887	2HD1	LEU	1927	74.087	91.861	54.949	0.00	0.00
ATOM 28888	3HD1	LEU	1927	75.718	92.740	54.945	0.00	0.00
ATOM 28889	CD2	LEU	1927	75.333	91.719	57.374	0.00	0.00
ATOM 28890	1HD2	LEU	1927	74.254	91.847	57.460	0.00	0.00
ATOM 28891	2HD2	LEU	1927	75.461	91.182	58.315	0.00	0.00
ATOM 28892	3HD2	LEU	1927	75.884	92.645	57.535	0.00	0.00
ATOM 28893	C	LEU	1927	74.502	87.557	57.495	0.00	0.00
ATOM 28894	O	LEU	1927	73.751	87.634	58.488	0.00	0.00
ATOM 28895	N	GLN	1928	74.464	86.574	56.687	0.00	0.00
ATOM 28896	H	GLN	1928	75.082	86.656	55.892	0.00	0.00
ATOM 28897	CA	GLN	1928	73.455	85.494	56.765	0.00	0.00
ATOM 28898	HA	GLN	1928	72.436	85.860	56.889	0.00	0.00
ATOM 28899	CB	GLN	1928	73.477	84.615	55.586	0.00	0.00
ATOM 28900	HB2	GLN	1928	74.529	84.568	55.301	0.00	0.00
ATOM 28901	HB3	GLN	1928	73.138	83.597	55.774	0.00	0.00
ATOM 28902	CG	GLN	1928	72.675	85.141	54.404	0.00	0.00
ATOM 28903	HG2	GLN	1928	71.712	84.992	54.893	0.00	0.00
ATOM 28904	HG3	GLN	1928	72.828	86.198	54.186	0.00	0.00
ATOM 28905	CD	GLN	1928	72.666	84.235	53.114	0.00	0.00

ATOM 28906	OE1	GLN	1928	73.622	83.723	52.599	0.00	0.00
ATOM 28907	NE2	GLN	1928	71.477	84.041	52.552	0.00	0.00
ATOM 28908	1HE2	GLN	1928	71.573	83.569	51.664	0.00	0.00
ATOM 28909	2HE2	GLN	1928	70.586	84.205	52.998	0.00	0.00
ATOM 28910	C	GLN	1928	73.735	84.618	57.997	0.00	0.00
ATOM 28911	O	GLN	1928	72.768	84.215	58.619	0.00	0.00
ATOM 28912	N	ALA	1929	74.912	84.283	58.401	0.00	0.00
ATOM 28913	H	ALA	1929	75.624	84.560	57.741	0.00	0.00
ATOM 28914	CA	ALA	1929	75.355	83.655	59.577	0.00	0.00
ATOM 28915	HA	ALA	1929	74.791	82.736	59.737	0.00	0.00
ATOM 28916	CB	ALA	1929	76.794	83.432	59.399	0.00	0.00
ATOM 28917	HB1	ALA	1929	77.248	84.402	59.195	0.00	0.00
ATOM 28918	HB2	ALA	1929	77.249	82.984	60.282	0.00	0.00
ATOM 28919	HB3	ALA	1929	77.039	82.716	58.614	0.00	0.00
ATOM 28920	C	ALA	1929	75.061	84.521	60.808	0.00	0.00
ATOM 28921	O	ALA	1929	74.451	84.153	61.787	0.00	0.00
ATOM 28922	N	ALA	1930	75.419	85.850	60.732	0.00	0.00
ATOM 28923	H	ALA	1930	76.183	86.119	60.128	0.00	0.00
ATOM 28924	CA	ALA	1930	75.211	86.655	61.877	0.00	0.00
ATOM 28925	HA	ALA	1930	75.542	86.139	62.778	0.00	0.00
ATOM 28926	CB	ALA	1930	76.146	87.967	61.646	0.00	0.00
ATOM 28927	HB1	ALA	1930	75.809	88.475	60.742	0.00	0.00
ATOM 28928	HB2	ALA	1930	76.071	88.692	62.456	0.00	0.00
ATOM 28929	HB3	ALA	1930	77.183	87.710	61.431	0.00	0.00
ATOM 28930	C	ALA	1930	73.796	87.080	62.219	0.00	0.00
ATOM 28931	O	ALA	1930	73.476	87.299	63.439	0.00	0.00

ATOM 28932	N	ASP	1931	72.936	87.027	61.228	0.00	0.00
ATOM 28933	H	ASP	1931	73.357	86.699	60.371	0.00	0.00
ATOM 28934	CA	ASP	1931	71.476	87.212	61.310	0.00	0.00
ATOM 28935	HA	ASP	1931	71.350	88.272	61.532	0.00	0.00
ATOM 28936	CB	ASP	1931	70.913	87.202	59.927	0.00	0.00
ATOM 28937	HB2	ASP	1931	71.401	87.986	59.347	0.00	0.00
ATOM 28938	HB3	ASP	1931	71.146	86.269	59.414	0.00	0.00
ATOM 28939	CG	ASP	1931	69.444	87.521	59.840	0.00	0.00
ATOM 28940	OD1	ASP	1931	68.593	86.729	59.344	0.00	0.00
ATOM 28941	OD2	ASP	1931	69.085	88.684	60.137	0.00	0.00
ATOM 28942	C	ASP	1931	70.862	86.140	62.282	0.00	0.00
ATOM 28943	O	ASP	1931	69.652	86.231	62.587	0.00	0.00
ATOM 28944	N	SER	1932	71.671	85.214	62.760	0.00	0.00
ATOM 28945	H	SER	1932	72.627	85.290	62.443	0.00	0.00
ATOM 28946	CA	SER	1932	71.308	84.008	63.611	0.00	0.00
ATOM 28947	HA	SER	1932	70.349	84.221	64.083	0.00	0.00
ATOM 28948	CB	SER	1932	71.025	82.737	62.848	0.00	0.00
ATOM 28949	HB2	SER	1932	71.930	82.393	62.347	0.00	0.00
ATOM 28950	HB3	SER	1932	70.824	81.974	63.600	0.00	0.00
ATOM 28951	OG	SER	1932	69.836	82.904	62.021	0.00	0.00
ATOM 28952	HG	SER	1932	70.169	83.156	61.157	0.00	0.00
ATOM 28953	C	SER	1932	72.231	83.856	64.861	0.00	0.00
ATOM 28954	O	SER	1932	72.722	82.757	65.196	0.00	0.00
ATOM 28955	N	LEU	1933	72.717	85.020	65.371	0.00	0.00
ATOM 28956	H	LEU	1933	72.436	85.830	64.838	0.00	0.00
ATOM 28957	CA	LEU	1933	73.591	85.228	66.591	0.00	0.00

ATOM 28958	HA	LEU	1933	73.517	84.297	67.154	0.00	0.00
ATOM 28959	CB	LEU	1933	75.050	85.582	66.149	0.00	0.00
ATOM 28960	HB2	LEU	1933	75.151	86.361	65.393	0.00	0.00
ATOM 28961	HB3	LEU	1933	75.524	85.996	67.040	0.00	0.00
ATOM 28962	CG	LEU	1933	75.885	84.428	65.638	0.00	0.00
ATOM 28963	HG	LEU	1933	75.371	84.167	64.713	0.00	0.00
ATOM 28964	CD1	LEU	1933	77.240	84.942	65.230	0.00	0.00
ATOM 28965	1HD1	LEU	1933	77.820	85.190	66.119	0.00	0.00
ATOM 28966	2HD1	LEU	1933	77.755	84.256	64.557	0.00	0.00
ATOM 28967	3HD1	LEU	1933	77.125	85.883	64.693	0.00	0.00
ATOM 28968	CD2	LEU	1933	76.069	83.159	66.498	0.00	0.00
ATOM 28969	1HD2	LEU	1933	76.918	82.515	66.267	0.00	0.00
ATOM 28970	2HD2	LEU	1933	76.312	83.652	67.440	0.00	0.00
ATOM 28971	3HD2	LEU	1933	75.157	82.564	66.471	0.00	0.00
ATOM 28972	C	LEU	1933	72.923	86.251	67.512	0.00	0.00
ATOM 28973	O	LEU	1933	72.362	87.186	66.948	0.00	0.00
ATOM 28974	N	PRO	1934	73.013	86.302	68.850	0.00	0.00
ATOM 28975	CD	PRO	1934	73.755	85.340	69.646	0.00	0.00
ATOM 28976	HD2	PRO	1934	73.356	84.326	69.630	0.00	0.00
ATOM 28977	HD3	PRO	1934	74.829	85.368	69.459	0.00	0.00
ATOM 28978	CG	PRO	1934	73.433	85.778	71.102	0.00	0.00
ATOM 28979	HG2	PRO	1934	73.232	84.866	71.665	0.00	0.00
ATOM 28980	HG3	PRO	1934	74.309	86.344	71.420	0.00	0.00
ATOM 28981	CB	PRO	1934	72.138	86.677	70.974	0.00	0.00
ATOM 28982	HB2	PRO	1934	71.323	85.954	70.946	0.00	0.00
ATOM 28983	HB3	PRO	1934	72.017	87.389	71.791	0.00	0.00

ATOM 28984	CA	PRO	1934	72.284	87.317	69.580	0.00	0.00
ATOM 28985	HA	PRO	1934	71.350	87.528	69.059	0.00	0.00
ATOM 28986	C	PRO	1934	72.935	88.676	69.707	0.00	0.00
ATOM 28987	O	PRO	1934	72.285	89.572	70.227	0.00	0.00
ATOM 28988	N	VAL	1935	74.239	88.851	69.332	0.00	0.00
ATOM 28989	H	VAL	1935	74.706	88.159	68.764	0.00	0.00
ATOM 28990	CA	VAL	1935	75.032	90.134	69.490	0.00	0.00
ATOM 28991	HA	VAL	1935	74.717	90.756	70.329	0.00	0.00
ATOM 28992	CB	VAL	1935	76.561	89.861	69.697	0.00	0.00
ATOM 28993	HB	VAL	1935	77.179	90.757	69.655	0.00	0.00
ATOM 28994	CG1	VAL	1935	76.720	89.180	71.065	0.00	0.00
ATOM 28995	1HG1	VAL	1935	77.754	88.879	71.232	0.00	0.00
ATOM 28996	2HG1	VAL	1935	76.302	89.857	71.810	0.00	0.00
ATOM 28997	3HG1	VAL	1935	76.197	88.224	71.061	0.00	0.00
ATOM 28998	CG2	VAL	1935	77.077	88.809	68.678	0.00	0.00
ATOM 28999	1HG2	VAL	1935	78.151	88.675	68.809	0.00	0.00
ATOM 29000	2HG2	VAL	1935	76.559	87.856	68.790	0.00	0.00
ATOM 29001	3HG2	VAL	1935	76.846	89.235	67.702	0.00	0.00
ATOM 29002	C	VAL	1935	74.796	90.989	68.214	0.00	0.00
ATOM 29003	O	VAL	1935	74.573	90.347	67.143	0.00	0.00
ATOM 29004	N	ASN	1936	74.872	92.360	68.332	0.00	0.00
ATOM 29005	H	ASN	1936	75.180	92.748	69.212	0.00	0.00
ATOM 29006	CA	ASN	1936	74.764	93.232	67.150	0.00	0.00
ATOM 29007	HA	ASN	1936	73.962	92.935	66.474	0.00	0.00
ATOM 29008	CB	ASN	1936	74.442	94.702	67.644	0.00	0.00
ATOM 29009	HB2	ASN	1936	75.325	95.261	67.955	0.00	0.00

ATOM 29010	HB3 ASN 1936	73.919	95.193	66.823	0.00	0.00
ATOM 29011	CG ASN 1936	73.425	94.818	68.722	0.00	0.00
ATOM 29012	OD1 ASN 1936	72.303	94.326	68.715	0.00	0.00
ATOM 29013	ND2 ASN 1936	73.806	95.483	69.824	0.00	0.00
ATOM 29014	1HD2 ASN 1936	73.203	95.494	70.634	0.00	0.00
ATOM 29015	2HD2 ASN 1936	74.743	95.821	69.990	0.00	0.00
ATOM 29016	C ASN 1936	76.070	93.199	66.319	0.00	0.00
ATOM 29017	O ASN 1936	77.135	93.497	66.842	0.00	0.00
ATOM 29018	N ILE 1937	75.991	92.877	65.012	0.00	0.00
ATOM 29019	H ILE 1937	75.145	93.170	64.544	0.00	0.00
ATOM 29020	CA ILE 1937	77.115	92.541	64.129	0.00	0.00
ATOM 29021	HA ILE 1937	78.043	92.768	64.653	0.00	0.00
ATOM 29022	CB ILE 1937	77.328	90.929	63.978	0.00	0.00
ATOM 29023	HB ILE 1937	76.361	90.444	63.847	0.00	0.00
ATOM 29024	CG2 ILE 1937	78.165	90.590	62.727	0.00	0.00
ATOM 29025	1HG2 ILE 1937	77.641	90.976	61.853	0.00	0.00
ATOM 29026	2HG2 ILE 1937	79.171	91.007	62.676	0.00	0.00
ATOM 29027	3HG2 ILE 1937	78.219	89.502	62.749	0.00	0.00
ATOM 29028	CG1 ILE 1937	78.012	90.452	65.268	0.00	0.00
ATOM 29029	2HG1 ILE 1937	79.044	90.802	65.282	0.00	0.00
ATOM 29030	3HG1 ILE 1937	77.567	90.903	66.155	0.00	0.00
ATOM 29031	CD1 ILE 1937	78.042	88.883	65.297	0.00	0.00
ATOM 29032	1HD1 ILE 1937	77.022	88.502	65.272	0.00	0.00
ATOM 29033	2HD1 ILE 1937	78.617	88.423	64.493	0.00	0.00
ATOM 29034	3HD1 ILE 1937	78.416	88.511	66.251	0.00	0.00
ATOM 29035	C ILE 1937	77.136	93.380	62.815	0.00	0.00



ATOM 29036	O	ILE	1937	76.154	93.540	62.097	0.00	0.00
ATOM 29037	N	GLY	1938	78.348	93.920	62.566	0.00	0.00
ATOM 29038	H	GLY	1938	79.083	93.580	63.169	0.00	0.00
ATOM 29039	CA	GLY	1938	78.930	94.730	61.483	0.00	0.00
ATOM 29040	HA2	GLY	1938	79.065	95.801	61.629	0.00	0.00
ATOM 29041	HA3	GLY	1938	78.259	94.549	60.643	0.00	0.00
ATOM 29042	C	GLY	1938	80.271	94.111	61.039	0.00	0.00
ATOM 29043	O	GLY	1938	81.023	93.583	61.865	0.00	0.00
ATOM 29044	N	LEU	1939	80.532	94.097	59.708	0.00	0.00
ATOM 29045	H	LEU	1939	79.799	94.533	59.167	0.00	0.00
ATOM 29046	CA	LEU	1939	81.654	93.392	59.013	0.00	0.00
ATOM 29047	HA	LEU	1939	82.145	92.570	59.534	0.00	0.00
ATOM 29048	CB	LEU	1939	81.105	92.616	57.817	0.00	0.00
ATOM 29049	HB2	LEU	1939	80.660	93.334	57.128	0.00	0.00
ATOM 29050	HB3	LEU	1939	81.919	92.118	57.291	0.00	0.00
ATOM 29051	CG	LEU	1939	79.940	91.646	58.277	0.00	0.00
ATOM 29052	HG	LEU	1939	79.148	92.166	58.817	0.00	0.00
ATOM 29053	CD1	LEU	1939	79.412	91.104	56.919	0.00	0.00
ATOM 29054	1HD1	LEU	1939	79.057	91.962	56.348	0.00	0.00
ATOM 29055	2HD1	LEU	1939	80.215	90.631	56.354	0.00	0.00
ATOM 29056	3HD1	LEU	1939	78.538	90.491	57.139	0.00	0.00
ATOM 29057	CD2	LEU	1939	80.414	90.568	59.264	0.00	0.00
ATOM 29058	1HD2	LEU	1939	79.672	89.818	59.541	0.00	0.00
ATOM 29059	2HD2	LEU	1939	81.306	90.127	58.818	0.00	0.00
ATOM 29060	3HD2	LEU	1939	80.633	90.994	60.243	0.00	0.00
ATOM 29061	C	LEU	1939	82.675	94.389	58.469	0.00	0.00

ATOM 29062	O	LEU	1939	82.330	95.478	57.998	0.00	0.00
ATOM 29063	N	LEU	1940	83.967	94.064	58.517	0.00	0.00
ATOM 29064	H	LEU	1940	84.157	93.199	59.003	0.00	0.00
ATOM 29065	CA	LEU	1940	85.127	94.759	57.845	0.00	0.00
ATOM 29066	HA	LEU	1940	84.666	95.726	57.641	0.00	0.00
ATOM 29067	CB	LEU	1940	86.253	94.885	58.937	0.00	0.00
ATOM 29068	HB2	LEU	1940	86.423	93.830	59.151	0.00	0.00
ATOM 29069	HB3	LEU	1940	87.171	95.206	58.445	0.00	0.00
ATOM 29070	CG	LEU	1940	86.031	95.836	60.158	0.00	0.00
ATOM 29071	HG	LEU	1940	85.099	95.541	60.641	0.00	0.00
ATOM 29072	CD1	LEU	1940	87.126	95.715	61.199	0.00	0.00
ATOM 29073	1HD1	LEU	1940	86.792	96.340	62.027	0.00	0.00
ATOM 29074	2HD1	LEU	1940	87.106	94.679	61.537	0.00	0.00
ATOM 29075	3HD1	LEU	1940	88.120	96.032	60.884	0.00	0.00
ATOM 29076	CD2	LEU	1940	85.903	97.315	59.710	0.00	0.00
ATOM 29077	1HD2	LEU	1940	86.104	97.968	60.560	0.00	0.00
ATOM 29078	2HD2	LEU	1940	86.854	97.585	59.249	0.00	0.00
ATOM 29079	3HD2	LEU	1940	84.962	97.506	59.195	0.00	0.00
ATOM 29080	C	LEU	1940	85.572	93.996	56.650	0.00	0.00
ATOM 29081	O	LEU	1940	85.670	92.797	56.742	0.00	0.00
ATOM 29082	N	GLY	1941	85.858	94.611	55.525	0.00	0.00
ATOM 29083	H	GLY	1941	85.731	95.611	55.470	0.00	0.00
ATOM 29084	CA	GLY	1941	86.365	94.016	54.251	0.00	0.00
ATOM 29085	HA2	GLY	1941	86.147	92.948	54.245	0.00	0.00
ATOM 29086	HA3	GLY	1941	85.879	94.463	53.384	0.00	0.00
ATOM 29087	C	GLY	1941	87.899	94.143	54.240	0.00	0.00

ATOM	29088	O	GLY	1941	88.609	94.719	55.074	0.00	0.00
ATOM	29089	N	LYS	1942	88.471	93.601	53.110	0.00	0.00
ATOM	29090	H	LYS	1942	87.758	93.313	52.454	0.00	0.00
ATOM	29091	CA	LYS	1942	89.852	93.671	52.663	0.00	0.00
ATOM	29092	HA	LYS	1942	90.457	93.564	53.564	0.00	0.00
ATOM	29093	CB	LYS	1942	90.202	92.552	51.655	0.00	0.00
ATOM	29094	HB2	LYS	1942	89.831	91.629	52.101	0.00	0.00
ATOM	29095	HB3	LYS	1942	89.683	92.723	50.712	0.00	0.00
ATOM	29096	CG	LYS	1942	91.728	92.491	51.522	0.00	0.00
ATOM	29097	HG2	LYS	1942	92.119	93.506	51.448	0.00	0.00
ATOM	29098	HG3	LYS	1942	92.112	92.166	52.489	0.00	0.00
ATOM	29099	CD	LYS	1942	92.155	91.651	50.324	0.00	0.00
ATOM	29100	HD2	LYS	1942	91.706	92.015	49.400	0.00	0.00
ATOM	29101	HD3	LYS	1942	93.230	91.660	50.143	0.00	0.00
ATOM	29102	CE	LYS	1942	91.771	90.197	50.634	0.00	0.00
ATOM	29103	HE2	LYS	1942	92.300	89.808	51.504	0.00	0.00
ATOM	29104	HE3	LYS	1942	90.724	90.216	50.934	0.00	0.00
ATOM	29105	NZ	LYS	1942	92.077	89.291	49.463	0.00	0.00
ATOM	29106	HZ1	LYS	1942	91.544	89.552	48.646	0.00	0.00
ATOM	29107	HZ2	LYS	1942	93.063	89.397	49.271	0.00	0.00
ATOM	29108	HZ3	LYS	1942	91.938	88.301	49.606	0.00	0.00
ATOM	29109	C	LYS	1942	90.025	95.053	52.034	0.00	0.00
ATOM	29110	O	LYS	1942	89.771	95.247	50.880	0.00	0.00
ATOM	29111	N	GLY	1943	90.489	96.082	52.712	0.00	0.00
ATOM	29112	H	GLY	1943	90.717	95.976	53.690	0.00	0.00
ATOM	29113	CA	GLY	1943	90.793	97.478	52.188	0.00	0.00

ATOM	29114	HA2	GLY	1943	89.965	97.813	51.562	0.00	0.00
ATOM	29115	HA3	GLY	1943	90.908	98.239	52.959	0.00	0.00
ATOM	29116	C	GLY	1943	92.042	97.595	51.316	0.00	0.00
ATOM	29117	O	GLY	1943	92.364	98.707	50.822	0.00	0.00
ATOM	29118	N	ASN	1944	92.717	96.458	51.205	0.00	0.00
ATOM	29119	H	ASN	1944	92.345	95.649	51.681	0.00	0.00
ATOM	29120	CA	ASN	1944	94.155	96.425	50.816	0.00	0.00
ATOM	29121	HA	ASN	1944	94.536	97.445	50.767	0.00	0.00
ATOM	29122	CB	ASN	1944	94.915	95.663	51.867	0.00	0.00
ATOM	29123	HB2	ASN	1944	94.520	95.824	52.870	0.00	0.00
ATOM	29124	HB3	ASN	1944	94.857	94.610	51.592	0.00	0.00
ATOM	29125	CG	ASN	1944	96.396	96.108	51.823	0.00	0.00
ATOM	29126	OD1	ASN	1944	96.799	97.005	52.567	0.00	0.00
ATOM	29127	ND2	ASN	1944	97.208	95.720	50.855	0.00	0.00
ATOM	29128	1HD2	ASN	1944	98.172	95.991	50.991	0.00	0.00
ATOM	29129	2HD2	ASN	1944	96.859	95.052	50.183	0.00	0.00
ATOM	29130	C	ASN	1944	94.278	95.995	49.321	0.00	0.00
ATOM	29131	O	ASN	1944	94.894	94.933	49.125	0.00	0.00
ATOM	29132	N	VAL	1945	93.710	96.744	48.436	0.00	0.00
ATOM	29133	H	VAL	1945	93.021	97.420	48.733	0.00	0.00
ATOM	29134	CA	VAL	1945	93.564	96.470	47.027	0.00	0.00
ATOM	29135	HA	VAL	1945	94.387	95.808	46.759	0.00	0.00
ATOM	29136	CB	VAL	1945	92.276	95.813	46.603	0.00	0.00
ATOM	29137	HB	VAL	1945	91.625	96.578	46.180	0.00	0.00
ATOM	29138	CG1	VAL	1945	92.590	94.944	45.353	0.00	0.00
ATOM	29139	1HG1	VAL	1945	93.057	95.606	44.624	0.00	0.00

ATOM	29140	2HG1	VAL	1945	93.368	94.223	45.603	0.00	0.00
ATOM	29141	3HG1	VAL	1945	91.813	94.363	44.856	0.00	0.00
ATOM	29142	CG2	VAL	1945	91.526	94.981	47.589	0.00	0.00
ATOM	29143	1HG2	VAL	1945	92.208	94.192	47.903	0.00	0.00
ATOM	29144	2HG2	VAL	1945	91.296	95.585	48.467	0.00	0.00
ATOM	29145	3HG2	VAL	1945	90.611	94.529	47.205	0.00	0.00
ATOM	29146	C	VAL	1945	93.687	97.799	46.364	0.00	0.00
ATOM	29147	O	VAL	1945	92.924	98.735	46.525	0.00	0.00
ATOM	29148	N	SER	1946	94.659	97.890	45.441	0.00	0.00
ATOM	29149	H	SER	1946	95.222	97.069	45.274	0.00	0.00
ATOM	29150	CA	SER	1946	95.030	99.103	44.649	0.00	0.00
ATOM	29151	HA	SER	1946	94.901	100.040	45.190	0.00	0.00
ATOM	29152	CB	SER	1946	96.474	99.022	44.094	0.00	0.00
ATOM	29153	HB2	SER	1946	96.622	98.058	43.607	0.00	0.00
ATOM	29154	HB3	SER	1946	96.657	99.849	43.409	0.00	0.00
ATOM	29155	OG	SER	1946	97.300	99.211	45.260	0.00	0.00
ATOM	29156	HG	SER	1946	97.210	98.451	45.840	0.00	0.00
ATOM	29157	C	SER	1946	94.003	99.270	43.472	0.00	0.00
ATOM	29158	O	SER	1946	94.408	99.824	42.444	0.00	0.00
ATOM	29159	N	GLN	1947	92.808	98.808	43.567	0.00	0.00
ATOM	29160	H	GLN	1947	92.620	98.265	44.398	0.00	0.00
ATOM	29161	CA	GLN	1947	91.751	98.786	42.538	0.00	0.00
ATOM	29162	HA	GLN	1947	92.004	99.340	41.634	0.00	0.00
ATOM	29163	CB	GLN	1947	91.735	97.270	42.068	0.00	0.00
ATOM	29164	HB2	GLN	1947	92.661	97.072	41.529	0.00	0.00
ATOM	29165	HB3	GLN	1947	91.699	96.532	42.870	0.00	0.00

ATOM 29166	CG	GLN	1947	90.541	96.933	41.201	0.00	0.00
ATOM 29167	HG2	GLN	1947	90.669	95.984	40.682	0.00	0.00
ATOM 29168	HG3	GLN	1947	89.643	96.719	41.781	0.00	0.00
ATOM 29169	CD	GLN	1947	90.359	97.987	40.156	0.00	0.00
ATOM 29170	OE1	GLN	1947	89.361	98.677	40.191	0.00	0.00
ATOM 29171	NE2	GLN	1947	91.316	98.193	39.288	0.00	0.00
ATOM 29172	1HE2	GLN	1947	91.163	98.900	38.583	0.00	0.00
ATOM 29173	2HE2	GLN	1947	92.123	97.585	39.286	0.00	0.00
ATOM 29174	C	GLN	1947	90.469	99.283	43.147	0.00	0.00
ATOM 29175	O	GLN	1947	89.849	98.557	44.008	0.00	0.00
ATOM 29176	N	PRO	1948	90.069	100.500	42.755	0.00	0.00
ATOM 29177	CD	PRO	1948	90.695	101.324	41.781	0.00	0.00
ATOM 29178	HD2	PRO	1948	91.784	101.367	41.795	0.00	0.00
ATOM 29179	HD3	PRO	1948	90.326	101.281	40.756	0.00	0.00
ATOM 29180	CG	PRO	1948	90.235	102.785	42.316	0.00	0.00
ATOM 29181	HG2	PRO	1948	90.807	102.853	43.241	0.00	0.00
ATOM 29182	HG3	PRO	1948	90.351	103.579	41.579	0.00	0.00
ATOM 29183	CB	PRO	1948	88.809	102.467	42.689	0.00	0.00
ATOM 29184	HB2	PRO	1948	88.560	103.199	43.456	0.00	0.00
ATOM 29185	HB3	PRO	1948	88.120	102.427	41.845	0.00	0.00
ATOM 29186	CA	PRO	1948	88.909	101.131	43.424	0.00	0.00
ATOM 29187	HA	PRO	1948	89.094	101.338	44.478	0.00	0.00
ATOM 29188	C	PRO	1948	87.587	100.482	43.300	0.00	0.00
ATOM 29189	O	PRO	1948	86.821	100.549	44.226	0.00	0.00
ATOM 29190	N	ASP	1949	87.375	99.806	42.182	0.00	0.00
ATOM 29191	H	ASP	1949	88.178	99.698	41.579	0.00	0.00

ATOM	29192	CA	ASP	1949	86.058	99.076	41.989	0.00	0.00
ATOM	29193	HA	ASP	1949	85.201	99.745	42.076	0.00	0.00
ATOM	29194	CB	ASP	1949	86.027	98.501	40.608	0.00	0.00
ATOM	29195	HB2	ASP	1949	86.412	99.309	39.985	0.00	0.00
ATOM	29196	HB3	ASP	1949	86.650	97.607	40.572	0.00	0.00
ATOM	29197	CG	ASP	1949	84.661	98.110	40.081	0.00	0.00
ATOM	29198	OD1	ASP	1949	84.178	97.013	40.431	0.00	0.00
ATOM	29199	OD2	ASP	1949	84.135	98.952	39.369	0.00	0.00
ATOM	29200	C	ASP	1949	85.880	97.918	42.914	0.00	0.00
ATOM	29201	O	ASP	1949	84.821	97.776	43.522	0.00	0.00
ATOM	29202	N	ALA	1950	86.940	97.209	43.269	0.00	0.00
ATOM	29203	H	ALA	1950	87.739	97.433	42.693	0.00	0.00
ATOM	29204	CA	ALA	1950	86.932	96.061	44.222	0.00	0.00
ATOM	29205	HA	ALA	1950	86.184	95.338	43.897	0.00	0.00
ATOM	29206	CB	ALA	1950	88.268	95.332	44.155	0.00	0.00
ATOM	29207	HB1	ALA	1950	89.159	95.947	44.284	0.00	0.00
ATOM	29208	HB2	ALA	1950	88.304	94.669	45.018	0.00	0.00
ATOM	29209	HB3	ALA	1950	88.323	94.777	43.219	0.00	0.00
ATOM	29210	C	ALA	1950	86.548	96.501	45.629	0.00	0.00
ATOM	29211	O	ALA	1950	85.898	95.774	46.345	0.00	0.00
ATOM	29212	N	LEU	1951	87.080	97.652	46.076	0.00	0.00
ATOM	29213	H	LEU	1951	87.561	98.188	45.367	0.00	0.00
ATOM	29214	CA	LEU	1951	86.759	98.190	47.357	0.00	0.00
ATOM	29215	HA	LEU	1951	86.757	97.386	48.093	0.00	0.00
ATOM	29216	CB	LEU	1951	87.794	99.221	47.754	0.00	0.00
ATOM	29217	HB2	LEU	1951	87.783	100.036	47.031	0.00	0.00

ATOM	29218	HB3	LEU	1951	87.528	99.587	48.746	0.00	0.00
ATOM	29219	CG	LEU	1951	89.354	98.742	47.877	0.00	0.00
ATOM	29220	HG	LEU	1951	89.694	98.577	46.855	0.00	0.00
ATOM	29221	CD1	LEU	1951	90.202	99.802	48.532	0.00	0.00
ATOM	29222	1HD1	LEU	1951	89.834	99.898	49.554	0.00	0.00
ATOM	29223	2HD1	LEU	1951	91.263	99.577	48.428	0.00	0.00
ATOM	29224	3HD1	LEU	1951	90.069	100.734	47.984	0.00	0.00
ATOM	29225	CD2	LEU	1951	89.433	97.481	48.762	0.00	0.00
ATOM	29226	1HD2	LEU	1951	89.230	96.507	48.317	0.00	0.00
ATOM	29227	2HD2	LEU	1951	90.437	97.392	49.177	0.00	0.00
ATOM	29228	3HD2	LEU	1951	88.722	97.687	49.562	0.00	0.00
ATOM	29229	C	LEU	1951	85.316	98.790	47.435	0.00	0.00
ATOM	29230	O	LEU	1951	84.650	98.490	48.447	0.00	0.00
ATOM	29231	N	ARG	1952	84.733	99.363	46.337	0.00	0.00
ATOM	29232	H	ARG	1952	85.395	99.492	45.585	0.00	0.00
ATOM	29233	CA	ARG	1952	83.389	99.797	46.174	0.00	0.00
ATOM	29234	HA	ARG	1952	83.254	100.404	47.069	0.00	0.00
ATOM	29235	CB	ARG	1952	83.116	100.660	44.919	0.00	0.00
ATOM	29236	HB2	ARG	1952	83.681	100.278	44.068	0.00	0.00
ATOM	29237	HB3	ARG	1952	82.062	100.639	44.641	0.00	0.00
ATOM	29238	CG	ARG	1952	83.569	102.096	45.141	0.00	0.00
ATOM	29239	HG2	ARG	1952	83.272	102.392	46.147	0.00	0.00
ATOM	29240	HG3	ARG	1952	84.651	102.175	45.042	0.00	0.00
ATOM	29241	CD	ARG	1952	83.021	103.191	44.175	0.00	0.00
ATOM	29242	HD2	ARG	1952	81.960	102.957	44.095	0.00	0.00
ATOM	29243	HD3	ARG	1952	83.228	104.139	44.672	0.00	0.00



ATOM	29244	NE	ARG	1952	83.549	102.995	42.895	0.00	0.00
ATOM	29245	HE	ARG	1952	83.017	102.374	42.303	0.00	0.00
ATOM	29246	CZ	ARG	1952	84.586	103.574	42.361	0.00	0.00
ATOM	29247	NH1	ARG	1952	85.209	104.611	42.838	0.00	0.00
ATOM	29248	1HH1	ARG	1952	85.828	105.135	42.235	0.00	0.00
ATOM	29249	2HH1	ARG	1952	84.784	105.200	43.540	0.00	0.00
ATOM	29250	NH2	ARG	1952	85.217	103.187	41.271	0.00	0.00
ATOM	29251	1HH2	ARG	1952	86.124	103.597	41.100	0.00	0.00
ATOM	29252	2HH2	ARG	1952	84.904	102.373	40.761	0.00	0.00
ATOM	29253	C	ARG	1952	82.430	98.659	46.235	0.00	0.00
ATOM	29254	O	ARG	1952	81.407	98.714	46.957	0.00	0.00
ATOM	29255	N	GLU	1953	82.785	97.536	45.583	0.00	0.00
ATOM	29256	H	GLU	1953	83.632	97.511	45.034	0.00	0.00
ATOM	29257	CA	GLU	1953	81.984	96.290	45.519	0.00	0.00
ATOM	29258	HA	GLU	1953	80.991	96.568	45.166	0.00	0.00
ATOM	29259	CB	GLU	1953	82.686	95.238	44.680	0.00	0.00
ATOM	29260	HB2	GLU	1953	82.849	95.664	43.690	0.00	0.00
ATOM	29261	HB3	GLU	1953	83.619	94.762	44.982	0.00	0.00
ATOM	29262	CG	GLU	1953	81.688	94.088	44.482	0.00	0.00
ATOM	29263	HG2	GLU	1953	82.365	93.238	44.403	0.00	0.00
ATOM	29264	HG3	GLU	1953	81.062	93.861	45.345	0.00	0.00
ATOM	29265	CD	GLU	1953	80.832	94.240	43.152	0.00	0.00
ATOM	29266	OE1	GLU	1953	81.227	93.590	42.173	0.00	0.00
ATOM	29267	OE2	GLU	1953	79.813	94.932	43.100	0.00	0.00
ATOM	29268	C	GLU	1953	81.866	95.787	46.946	0.00	0.00
ATOM	29269	O	GLU	1953	80.736	95.349	47.302	0.00	0.00

ATOM	29270	N	GLN	1954	82.900	95.814	47.788	0.00	0.00
ATOM	29271	H	GLN	1954	83.713	96.280	47.411	0.00	0.00
ATOM	29272	CA	GLN	1954	82.796	95.280	49.115	0.00	0.00
ATOM	29273	HA	GLN	1954	82.463	94.246	49.031	0.00	0.00
ATOM	29274	CB	GLN	1954	84.200	95.236	49.786	0.00	0.00
ATOM	29275	HB2	GLN	1954	84.638	96.217	49.971	0.00	0.00
ATOM	29276	HB3	GLN	1954	84.075	95.016	50.846	0.00	0.00
ATOM	29277	CG	GLN	1954	85.107	94.165	49.239	0.00	0.00
ATOM	29278	HG2	GLN	1954	84.689	93.187	49.479	0.00	0.00
ATOM	29279	HG3	GLN	1954	85.100	94.194	48.149	0.00	0.00
ATOM	29280	CD	GLN	1954	86.510	94.393	49.832	0.00	0.00
ATOM	29281	OE1	GLN	1954	86.673	94.428	51.037	0.00	0.00
ATOM	29282	NE2	GLN	1954	87.534	94.766	49.081	0.00	0.00
ATOM	29283	1HE2	GLN	1954	88.414	95.032	49.501	0.00	0.00
ATOM	29284	2HE2	GLN	1954	87.336	94.958	48.110	0.00	0.00
ATOM	29285	C	GLN	1954	81.789	96.025	49.962	0.00	0.00
ATOM	29286	O	GLN	1954	80.882	95.405	50.500	0.00	0.00
ATOM	29287	N	VAL	1955	81.875	97.355	50.001	0.00	0.00
ATOM	29288	H	VAL	1955	82.442	97.815	49.303	0.00	0.00
ATOM	29289	CA	VAL	1955	81.074	98.194	50.852	0.00	0.00
ATOM	29290	HA	VAL	1955	81.187	97.850	51.880	0.00	0.00
ATOM	29291	CB	VAL	1955	81.435	99.749	50.636	0.00	0.00
ATOM	29292	HB	VAL	1955	81.360	100.033	49.587	0.00	0.00
ATOM	29293	CG1	VAL	1955	80.478	100.699	51.398	0.00	0.00
ATOM	29294	1HG1	VAL	1955	80.518	100.549	52.477	0.00	0.00
ATOM	29295	2HG1	VAL	1955	80.755	101.746	51.277	0.00	0.00

ATOM	29296	3HG1	VAL	1955	79.452	100.677	51.029	0.00	0.00
ATOM	29297	CG2	VAL	1955	82.830	99.966	51.141	0.00	0.00
ATOM	29298	1HG2	VAL	1955	83.077	101.028	51.113	0.00	0.00
ATOM	29299	2HG2	VAL	1955	82.957	99.669	52.182	0.00	0.00
ATOM	29300	3HG2	VAL	1955	83.505	99.426	50.477	0.00	0.00
ATOM	29301	C	VAL	1955	79.626	98.036	50.469	0.00	0.00
ATOM	29302	O	VAL	1955	78.858	97.777	51.364	0.00	0.00
ATOM	29303	N	ALA	1956	79.287	98.097	49.164	0.00	0.00
ATOM	29304	H	ALA	1956	80.077	98.185	48.540	0.00	0.00
ATOM	29305	CA	ALA	1956	77.977	97.873	48.576	0.00	0.00
ATOM	29306	HA	ALA	1956	77.196	98.416	49.108	0.00	0.00
ATOM	29307	CB	ALA	1956	78.000	98.230	47.056	0.00	0.00
ATOM	29308	HB1	ALA	1956	78.377	99.237	46.873	0.00	0.00
ATOM	29309	HB2	ALA	1956	78.593	97.480	46.533	0.00	0.00
ATOM	29310	HB3	ALA	1956	76.962	98.266	46.727	0.00	0.00
ATOM	29311	C	ALA	1956	77.506	96.390	48.692	0.00	0.00
ATOM	29312	O	ALA	1956	76.321	96.191	48.548	0.00	0.00
ATOM	29313	N	ALA	1957	78.363	95.364	48.953	0.00	0.00
ATOM	29314	H	ALA	1957	79.358	95.478	49.080	0.00	0.00
ATOM	29315	CA	ALA	1957	77.945	94.028	49.313	0.00	0.00
ATOM	29316	HA	ALA	1957	77.132	93.685	48.674	0.00	0.00
ATOM	29317	CB	ALA	1957	78.986	92.950	48.979	0.00	0.00
ATOM	29318	HB1	ALA	1957	78.626	91.934	49.142	0.00	0.00
ATOM	29319	HB2	ALA	1957	79.187	92.884	47.910	0.00	0.00
ATOM	29320	HB3	ALA	1957	79.876	93.148	49.576	0.00	0.00
ATOM	29321	C	ALA	1957	77.481	93.977	50.791	0.00	0.00

ATOM	29322	O	ALA	1957	76.582	93.205	51.123	0.00	0.00
ATOM	29323	N	GLY	1958	78.088	94.839	51.689	0.00	0.00
ATOM	29324	H	GLY	1958	78.886	95.408	51.444	0.00	0.00
ATOM	29325	CA	GLY	1958	77.614	94.971	53.096	0.00	0.00
ATOM	29326	HA2	GLY	1958	76.734	95.605	52.988	0.00	0.00
ATOM	29327	HA3	GLY	1958	77.287	93.971	53.382	0.00	0.00
ATOM	29328	C	GLY	1958	78.529	95.542	54.145	0.00	0.00
ATOM	29329	O	GLY	1958	78.018	95.860	55.231	0.00	0.00
ATOM	29330	N	VAL	1959	79.818	95.601	53.780	0.00	0.00
ATOM	29331	H	VAL	1959	80.043	95.446	52.808	0.00	0.00
ATOM	29332	CA	VAL	1959	80.957	95.887	54.810	0.00	0.00
ATOM	29333	HA	VAL	1959	80.617	95.349	55.695	0.00	0.00
ATOM	29334	CB	VAL	1959	82.386	95.369	54.494	0.00	0.00
ATOM	29335	HB	VAL	1959	83.040	95.674	55.311	0.00	0.00
ATOM	29336	CG1	VAL	1959	82.325	93.851	54.259	0.00	0.00
ATOM	29337	1HG1	VAL	1959	81.971	93.448	55.208	0.00	0.00
ATOM	29338	2HG1	VAL	1959	81.715	93.628	53.384	0.00	0.00
ATOM	29339	3HG1	VAL	1959	83.341	93.477	54.132	0.00	0.00
ATOM	29340	CG2	VAL	1959	83.058	96.065	53.315	0.00	0.00
ATOM	29341	1HG2	VAL	1959	84.097	95.767	53.179	0.00	0.00
ATOM	29342	2HG2	VAL	1959	82.502	95.850	52.403	0.00	0.00
ATOM	29343	3HG2	VAL	1959	82.981	97.130	53.533	0.00	0.00
ATOM	29344	C	VAL	1959	80.857	97.342	55.318	0.00	0.00
ATOM	29345	O	VAL	1959	80.798	98.275	54.555	0.00	0.00
ATOM	29346	N	ILE	1960	80.795	97.573	56.666	0.00	0.00
ATOM	29347	H	ILE	1960	80.683	96.766	57.264	0.00	0.00

ATOM 29348	CA	ILE	1960	80.710	98.973	57.224	0.00	0.00
ATOM 29349	HA	ILE	1960	80.089	99.682	56.676	0.00	0.00
ATOM 29350	CB	ILE	1960	80.159	99.106	58.628	0.00	0.00
ATOM 29351	HB	ILE	1960	80.308	100.144	58.926	0.00	0.00
ATOM 29352	CG2	ILE	1960	78.633	98.827	58.425	0.00	0.00
ATOM 29353	1HG2	ILE	1960	78.169	99.412	57.631	0.00	0.00
ATOM 29354	2HG2	ILE	1960	78.403	97.774	58.263	0.00	0.00
ATOM 29355	3HG2	ILE	1960	78.144	99.055	59.372	0.00	0.00
ATOM 29356	CG1	ILE	1960	80.833	98.196	59.650	0.00	0.00
ATOM 29357	2HG1	ILE	1960	80.659	97.174	59.312	0.00	0.00
ATOM 29358	3HG1	ILE	1960	81.889	98.426	59.788	0.00	0.00
ATOM 29359	CD1	ILE	1960	80.315	98.318	61.025	0.00	0.00
ATOM 29360	1HD1	ILE	1960	80.962	97.739	61.684	0.00	0.00
ATOM 29361	2HD1	ILE	1960	80.258	99.343	61.391	0.00	0.00
ATOM 29362	3HD1	ILE	1960	79.373	97.795	61.190	0.00	0.00
ATOM 29363	C	ILE	1960	82.144	99.549	57.175	0.00	0.00
ATOM 29364	O	ILE	1960	82.187	100.745	57.395	0.00	0.00
ATOM 29365	N	GLY	1961	83.242	98.778	57.223	0.00	0.00
ATOM 29366	H	GLY	1961	83.176	97.788	57.414	0.00	0.00
ATOM 29367	CA	GLY	1961	84.553	99.414	57.105	0.00	0.00
ATOM 29368	HA2	GLY	1961	84.558	100.400	56.640	0.00	0.00
ATOM 29369	HA3	GLY	1961	85.106	99.367	58.043	0.00	0.00
ATOM 29370	C	GLY	1961	85.396	98.586	56.215	0.00	0.00
ATOM 29371	O	GLY	1961	85.100	97.536	55.652	0.00	0.00
ATOM 29372	N	LEU	1962	86.609	99.156	56.022	0.00	0.00
ATOM 29373	H	LEU	1962	86.800	100.093	56.347	0.00	0.00

ATOM 29374	CA	LEU	1962	87.714	98.490	55.315	0.00	0.00
ATOM 29375	HA	LEU	1962	87.469	97.440	55.157	0.00	0.00
ATOM 29376	CB	LEU	1962	87.919	99.082	53.917	0.00	0.00
ATOM 29377	HB2	LEU	1962	88.272	100.096	54.106	0.00	0.00
ATOM 29378	HB3	LEU	1962	88.873	98.696	53.557	0.00	0.00
ATOM 29379	CG	LEU	1962	86.786	98.942	52.865	0.00	0.00
ATOM 29380	HG	LEU	1962	85.838	99.308	53.260	0.00	0.00
ATOM 29381	CD1	LEU	1962	87.063	99.714	51.541	0.00	0.00
ATOM 29382	1HD1	LEU	1962	86.247	99.406	50.887	0.00	0.00
ATOM 29383	2HD1	LEU	1962	86.950	100.790	51.664	0.00	0.00
ATOM 29384	3HD1	LEU	1962	88.037	99.409	51.158	0.00	0.00
ATOM 29385	CD2	LEU	1962	86.666	97.432	52.611	0.00	0.00
ATOM 29386	1HD2	LEU	1962	86.349	96.999	53.559	0.00	0.00
ATOM 29387	2HD2	LEU	1962	85.839	97.156	51.957	0.00	0.00
ATOM 29388	3HD2	LEU	1962	87.601	97.007	52.246	0.00	0.00
ATOM 29389	C	LEU	1962	89.009	98.427	56.130	0.00	0.00
ATOM 29390	O	LEU	1962	89.388	99.424	56.737	0.00	0.00
ATOM 29391	N	KCB	1963	89.631	97.265	56.229	0.00	0.00
ATOM 29392	H	KCB	1963	89.302	96.420	55.784	0.00	0.00
ATOM 29393	CA	KCB	1963	90.931	97.167	56.910	0.00	0.00
ATOM 29394	HA	KCB	1963	91.121	98.033	57.545	0.00	0.00
ATOM 29395	CB	KCB	1963	90.955	95.931	57.869	0.00	0.00
ATOM 29396	HB2	KCB	1963	90.068	95.858	58.499	0.00	0.00
ATOM 29397	HB3	KCB	1963	90.838	95.037	57.257	0.00	0.00
ATOM 29398	CG	KCB	1963	92.140	95.714	58.786	0.00	0.00
ATOM 29399	HG2	KCB	1963	93.032	95.454	58.215	0.00	0.00

ATOM 29400	HG3 KCB	1963	92.244	96.610	59.398	0.00	0.00
ATOM 29401	CD KCB	1963	92.167	94.510	59.774	0.00	0.00
ATOM 29402	HD2 KCB	1963	91.331	94.425	60.468	0.00	0.00
ATOM 29403	HD3 KCB	1963	92.147	93.616	59.150	0.00	0.00
ATOM 29404	CE KCB	1963	93.487	94.540	60.514	0.00	0.00
ATOM 29405	HE2 KCB	1963	94.314	94.649	59.812	0.00	0.00
ATOM 29406	HE3 KCB	1963	93.540	95.439	61.128	0.00	0.00
ATOM 29407	NZ KCB	1963	93.586	93.414	61.406	0.00	0.00
ATOM 29408	HZ1 KCB	1963	92.772	92.828	61.527	0.00	0.00
ATOM 29409	CX KCB	1963	94.458	93.097	62.364	0.00	0.00
ATOM 29410	OX1 KCB	1963	95.329	93.925	62.744	0.00	0.00
ATOM 29411	OX2 KCB	1963	94.349	91.887	62.774	0.00	0.00
ATOM 29412	C KCB	1963	92.085	97.132	55.884	0.00	0.00
ATOM 29413	O KCB	1963	92.164	96.269	55.003	0.00	0.00
ATOM 29414	N ILE	1964	93.109	97.949	56.049	0.00	0.00
ATOM 29415	H ILE	1964	93.047	98.566	56.846	0.00	0.00
ATOM 29416	CA ILE	1964	94.516	97.810	55.543	0.00	0.00
ATOM 29417	HA ILE	1964	94.665	97.512	54.505	0.00	0.00
ATOM 29418	CB ILE	1964	95.123	99.176	55.630	0.00	0.00
ATOM 29419	HB ILE	1964	94.993	99.581	56.634	0.00	0.00
ATOM 29420	CG2 ILE	1964	96.660	99.102	55.376	0.00	0.00
ATOM 29421	1HG2 ILE	1964	97.220	98.599	56.164	0.00	0.00
ATOM 29422	2HG2 ILE	1964	96.861	98.793	54.350	0.00	0.00
ATOM 29423	3HG2 ILE	1964	97.091	100.100	55.458	0.00	0.00
ATOM 29424	CG1 ILE	1964	94.398	100.259	54.719	0.00	0.00
ATOM 29425	2HG1 ILE	1964	93.342	100.128	54.957	0.00	0.00

ATOM	29426	3HG1	ILE	1964	94.750	101.224	55.084	0.00	0.00
ATOM	29427	CD1	ILE	1964	94.632	100.198	53.252	0.00	0.00
ATOM	29428	1HD1	ILE	1964	94.813	99.169	52.939	0.00	0.00
ATOM	29429	2HD1	ILE	1964	93.729	100.635	52.828	0.00	0.00
ATOM	29430	3HD1	ILE	1964	95.508	100.797	53.002	0.00	0.00
ATOM	29431	C	ILE	1964	95.203	96.786	56.446	0.00	0.00
ATOM	29432	O	ILE	1964	95.191	96.848	57.666	0.00	0.00
ATOM	29433	N	HIE	1965	95.876	95.820	55.750	0.00	0.00
ATOM	29434	H	HIE	1965	95.817	95.818	54.742	0.00	0.00
ATOM	29435	CA	HIE	1965	96.766	94.864	56.358	0.00	0.00
ATOM	29436	HA	HIE	1965	97.062	95.340	57.293	0.00	0.00
ATOM	29437	CB	HIE	1965	95.984	93.614	56.729	0.00	0.00
ATOM	29438	HB2	HIE	1965	94.918	93.780	56.888	0.00	0.00
ATOM	29439	HB3	HIE	1965	96.108	92.910	55.907	0.00	0.00
ATOM	29440	CG	HIE	1965	96.506	93.047	57.969	0.00	0.00
ATOM	29441	ND1	HIE	1965	97.881	92.930	58.217	0.00	0.00
ATOM	29442	CE1	HIE	1965	97.930	92.356	59.421	0.00	0.00
ATOM	29443	HE1	HIE	1965	98.836	92.130	59.963	0.00	0.00
ATOM	29444	NE2	HIE	1965	96.712	92.014	59.893	0.00	0.00
ATOM	29445	HE2	HIE	1965	96.522	91.584	60.787	0.00	0.00
ATOM	29446	CD2	HIE	1965	95.780	92.543	59.025	0.00	0.00
ATOM	29447	HD2	HIE	1965	94.702	92.475	59.037	0.00	0.00
ATOM	29448	C	HIE	1965	97.968	94.541	55.442	0.00	0.00
ATOM	29449	O	HIE	1965	97.829	94.156	54.302	0.00	0.00
ATOM	29450	N	GLU	1966	99.165	94.616	55.999	0.00	0.00
ATOM	29451	H	GLU	1966	99.341	94.819	56.973	0.00	0.00



ATOM	29452	CA	GLU	1966	100.442	94.121	55.391	0.00	0.00
ATOM	29453	HA	GLU	1966	100.634	94.747	54.520	0.00	0.00
ATOM	29454	CB	GLU	1966	101.647	94.294	56.278	0.00	0.00
ATOM	29455	HB2	GLU	1966	102.453	93.583	56.096	0.00	0.00
ATOM	29456	HB3	GLU	1966	101.995	95.312	56.099	0.00	0.00
ATOM	29457	CG	GLU	1966	101.319	94.163	57.757	0.00	0.00
ATOM	29458	HG2	GLU	1966	100.822	95.069	58.103	0.00	0.00
ATOM	29459	HG3	GLU	1966	100.514	93.428	57.744	0.00	0.00
ATOM	29460	CD	GLU	1966	102.466	93.743	58.705	0.00	0.00
ATOM	29461	OE1	GLU	1966	103.656	93.905	58.402	0.00	0.00
ATOM	29462	OE2	GLU	1966	102.164	93.117	59.765	0.00	0.00
ATOM	29463	C	GLU	1966	100.292	92.612	54.996	0.00	0.00
ATOM	29464	O	GLU	1966	100.734	92.318	53.881	0.00	0.00
ATOM	29465	N	ASP	1967	99.592	91.746	55.736	0.00	0.00
ATOM	29466	H	ASP	1967	99.287	92.105	56.629	0.00	0.00
ATOM	29467	CA	ASP	1967	99.290	90.421	55.323	0.00	0.00
ATOM	29468	HA	ASP	1967	100.202	89.836	55.204	0.00	0.00
ATOM	29469	CB	ASP	1967	98.477	89.799	56.409	0.00	0.00
ATOM	29470	HB2	ASP	1967	97.661	90.401	56.810	0.00	0.00
ATOM	29471	HB3	ASP	1967	98.054	88.849	56.083	0.00	0.00
ATOM	29472	CG	ASP	1967	99.370	89.439	57.599	0.00	0.00
ATOM	29473	OD1	ASP	1967	98.901	89.522	58.720	0.00	0.00
ATOM	29474	OD2	ASP	1967	100.522	88.958	57.512	0.00	0.00
ATOM	29475	C	ASP	1967	98.579	90.336	53.962	0.00	0.00
ATOM	29476	O	ASP	1967	98.839	89.365	53.229	0.00	0.00
ATOM	29477	N	TRP	1968	97.830	91.340	53.532	0.00	0.00

ATOM 29478	H	TRP	1968	97.672	92.015	54.266	0.00	0.00
ATOM 29479	CA	TRP	1968	97.257	91.395	52.208	0.00	0.00
ATOM 29480	HA	TRP	1968	97.254	90.378	51.816	0.00	0.00
ATOM 29481	CB	TRP	1968	95.763	91.877	52.450	0.00	0.00
ATOM 29482	HB2	TRP	1968	95.674	92.751	53.094	0.00	0.00
ATOM 29483	HB3	TRP	1968	95.302	92.033	51.475	0.00	0.00
ATOM 29484	CG	TRP	1968	94.911	90.876	53.065	0.00	0.00
ATOM 29485	CD1	TRP	1968	94.158	91.164	54.191	0.00	0.00
ATOM 29486	HD1	TRP	1968	94.207	92.072	54.773	0.00	0.00
ATOM 29487	NE1	TRP	1968	93.347	90.062	54.382	0.00	0.00
ATOM 29488	HE1	TRP	1968	92.719	90.059	55.173	0.00	0.00
ATOM 29489	CE2	TRP	1968	93.529	89.048	53.488	0.00	0.00
ATOM 29490	CZ2	TRP	1968	92.829	87.876	53.250	0.00	0.00
ATOM 29491	HZ2	TRP	1968	92.078	87.545	53.952	0.00	0.00
ATOM 29492	CH2	TRP	1968	93.095	87.111	52.114	0.00	0.00
ATOM 29493	HH2	TRP	1968	92.554	86.191	51.946	0.00	0.00
ATOM 29494	CZ3	TRP	1968	94.082	87.535	51.265	0.00	0.00
ATOM 29495	HZ3	TRP	1968	94.327	86.957	50.386	0.00	0.00
ATOM 29496	CE3	TRP	1968	94.808	88.721	51.509	0.00	0.00
ATOM 29497	HE3	TRP	1968	95.511	89.046	50.756	0.00	0.00
ATOM 29498	CD2	TRP	1968	94.549	89.573	52.609	0.00	0.00
ATOM 29499	C	TRP	1968	97.990	92.330	51.270	0.00	0.00
ATOM 29500	O	TRP	1968	97.714	92.375	50.115	0.00	0.00
ATOM 29501	N	GLY	1969	99.006	93.094	51.706	0.00	0.00
ATOM 29502	H	GLY	1969	99.175	93.115	52.702	0.00	0.00
ATOM 29503	CA	GLY	1969	100.023	93.771	50.890	0.00	0.00

ATOM	29504	HA2	GLY	1969	100.799	93.051	50.630	0.00	0.00
ATOM	29505	HA3	GLY	1969	99.618	94.136	49.946	0.00	0.00
ATOM	29506	C	GLY	1969	100.571	94.969	51.536	0.00	0.00
ATOM	29507	O	GLY	1969	99.807	95.800	51.994	0.00	0.00
ATOM	29508	N	ALA	1970	101.851	95.045	51.534	0.00	0.00
ATOM	29509	H	ALA	1970	102.382	94.318	51.077	0.00	0.00
ATOM	29510	CA	ALA	1970	102.427	96.279	51.959	0.00	0.00
ATOM	29511	HA	ALA	1970	101.853	96.737	52.765	0.00	0.00
ATOM	29512	CB	ALA	1970	103.769	96.014	52.489	0.00	0.00
ATOM	29513	HB1	ALA	1970	103.638	95.353	53.346	0.00	0.00
ATOM	29514	HB2	ALA	1970	104.435	95.604	51.729	0.00	0.00
ATOM	29515	HB3	ALA	1970	104.228	96.953	52.798	0.00	0.00
ATOM	29516	C	ALA	1970	102.360	97.339	50.808	0.00	0.00
ATOM	29517	O	ALA	1970	103.379	97.638	50.176	0.00	0.00
ATOM	29518	N	THR	1971	101.200	97.844	50.495	0.00	0.00
ATOM	29519	H	THR	1971	100.418	97.444	50.994	0.00	0.00
ATOM	29520	CA	THR	1971	100.927	98.731	49.317	0.00	0.00
ATOM	29521	HA	THR	1971	101.884	98.850	48.808	0.00	0.00
ATOM	29522	CB	THR	1971	99.890	97.998	48.440	0.00	0.00
ATOM	29523	HB	THR	1971	99.679	98.675	47.613	0.00	0.00
ATOM	29524	CG2	THR	1971	100.512	96.842	47.754	0.00	0.00
ATOM	29525	1HG2	THR	1971	100.126	96.716	46.742	0.00	0.00
ATOM	29526	2HG2	THR	1971	101.559	97.035	47.524	0.00	0.00
ATOM	29527	3HG2	THR	1971	100.528	95.948	48.378	0.00	0.00
ATOM	29528	OG1	THR	1971	98.727	97.664	48.968	0.00	0.00
ATOM	29529	HG1	THR	1971	98.089	97.495	48.271	0.00	0.00

ATOM 29530	C	THR	1971	100.490	100.149	49.702	0.00	0.00
ATOM 29531	O	THR	1971	99.270	100.405	49.877	0.00	0.00
ATOM 29532	N	PRO	1972	101.415	101.148	49.647	0.00	0.00
ATOM 29533	CD	PRO	1972	102.887	101.040	49.850	0.00	0.00
ATOM 29534	HD2	PRO	1972	103.028	100.086	50.359	0.00	0.00
ATOM 29535	HD3	PRO	1972	103.326	101.055	48.852	0.00	0.00
ATOM 29536	CG	PRO	1972	103.304	102.292	50.690	0.00	0.00
ATOM 29537	HG2	PRO	1972	103.149	102.076	51.747	0.00	0.00
ATOM 29538	HG3	PRO	1972	104.317	102.578	50.406	0.00	0.00
ATOM 29539	CB	PRO	1972	102.238	103.275	50.063	0.00	0.00
ATOM 29540	HB2	PRO	1972	102.199	104.218	50.609	0.00	0.00
ATOM 29541	HB3	PRO	1972	102.472	103.582	49.044	0.00	0.00
ATOM 29542	CA	PRO	1972	100.898	102.521	49.958	0.00	0.00
ATOM 29543	HA	PRO	1972	100.325	102.548	50.885	0.00	0.00
ATOM 29544	C	PRO	1972	99.891	103.127	48.901	0.00	0.00
ATOM 29545	O	PRO	1972	99.134	103.924	49.231	0.00	0.00
ATOM 29546	N	ALA	1973	99.861	102.561	47.665	0.00	0.00
ATOM 29547	H	ALA	1973	100.592	101.891	47.471	0.00	0.00
ATOM 29548	CA	ALA	1973	98.737	102.596	46.662	0.00	0.00
ATOM 29549	HA	ALA	1973	98.605	103.642	46.389	0.00	0.00
ATOM 29550	CB	ALA	1973	99.226	101.710	45.596	0.00	0.00
ATOM 29551	HB1	ALA	1973	99.372	100.692	45.958	0.00	0.00
ATOM 29552	HB2	ALA	1973	98.436	101.695	44.845	0.00	0.00
ATOM 29553	HB3	ALA	1973	100.171	102.041	45.165	0.00	0.00
ATOM 29554	C	ALA	1973	97.337	102.180	47.210	0.00	0.00
ATOM 29555	O	ALA	1973	96.367	102.964	47.035	0.00	0.00

ATOM	29556	N	ALA	1974	97.187	101.119	48.026	0.00	0.00
ATOM	29557	H	ALA	1974	98.064	100.651	48.203	0.00	0.00
ATOM	29558	CA	ALA	1974	95.909	100.729	48.641	0.00	0.00
ATOM	29559	HA	ALA	1974	95.161	100.845	47.857	0.00	0.00
ATOM	29560	CB	ALA	1974	95.860	99.376	49.281	0.00	0.00
ATOM	29561	HB1	ALA	1974	94.782	99.295	49.422	0.00	0.00
ATOM	29562	HB2	ALA	1974	96.259	98.628	48.596	0.00	0.00
ATOM	29563	HB3	ALA	1974	96.413	99.354	50.220	0.00	0.00
ATOM	29564	C	ALA	1974	95.450	101.743	49.728	0.00	0.00
ATOM	29565	O	ALA	1974	94.239	102.102	49.704	0.00	0.00
ATOM	29566	N	ILE	1975	96.347	102.236	50.624	0.00	0.00
ATOM	29567	H	ILE	1975	97.309	101.933	50.686	0.00	0.00
ATOM	29568	CA	ILE	1975	96.025	103.233	51.673	0.00	0.00
ATOM	29569	HA	ILE	1975	95.520	102.753	52.512	0.00	0.00
ATOM	29570	CB	ILE	1975	97.333	103.815	52.359	0.00	0.00
ATOM	29571	HB	ILE	1975	97.934	104.299	51.590	0.00	0.00
ATOM	29572	CG2	ILE	1975	96.915	104.796	53.532	0.00	0.00
ATOM	29573	1HG2	ILE	1975	96.870	104.224	54.459	0.00	0.00
ATOM	29574	2HG2	ILE	1975	97.641	105.597	53.667	0.00	0.00
ATOM	29575	3HG2	ILE	1975	95.991	105.337	53.327	0.00	0.00
ATOM	29576	CG1	ILE	1975	98.226	102.688	52.955	0.00	0.00
ATOM	29577	2HG1	ILE	1975	97.788	102.143	53.791	0.00	0.00
ATOM	29578	3HG1	ILE	1975	98.455	101.899	52.238	0.00	0.00
ATOM	29579	CD1	ILE	1975	99.599	103.313	53.441	0.00	0.00
ATOM	29580	1HD1	ILE	1975	100.276	102.530	53.784	0.00	0.00
ATOM	29581	2HD1	ILE	1975	100.081	103.764	52.574	0.00	0.00

ATOM 29582	3HD1	ILE	1975	99.385	104.191	54.050	0.00	0.00
ATOM 29583	C	ILE	1975	95.188	104.386	51.072	0.00	0.00
ATOM 29584	O	ILE	1975	93.994	104.560	51.454	0.00	0.00
ATOM 29585	N	ASP	1976	95.779	104.882	49.975	0.00	0.00
ATOM 29586	H	ASP	1976	96.645	104.491	49.634	0.00	0.00
ATOM 29587	CA	ASP	1976	95.124	105.964	49.199	0.00	0.00
ATOM 29588	HA	ASP	1976	94.778	106.803	49.802	0.00	0.00
ATOM 29589	CB	ASP	1976	96.099	106.492	48.162	0.00	0.00
ATOM 29590	HB2	ASP	1976	96.967	106.849	48.717	0.00	0.00
ATOM 29591	HB3	ASP	1976	96.358	105.697	47.463	0.00	0.00
ATOM 29592	CG	ASP	1976	95.431	107.574	47.387	0.00	0.00
ATOM 29593	OD1	ASP	1976	95.184	107.378	46.235	0.00	0.00
ATOM 29594	OD2	ASP	1976	95.017	108.579	48.029	0.00	0.00
ATOM 29595	C	ASP	1976	93.848	105.503	48.401	0.00	0.00
ATOM 29596	O	ASP	1976	92.770	106.130	48.462	0.00	0.00
ATOM 29597	N	CYS	1977	93.900	104.271	47.824	0.00	0.00
ATOM 29598	H	CYS	1977	94.772	103.762	47.853	0.00	0.00
ATOM 29599	CA	CYS	1977	92.723	103.667	47.128	0.00	0.00
ATOM 29600	HA	CYS	1977	92.458	104.317	46.295	0.00	0.00
ATOM 29601	CB	CYS	1977	93.156	102.305	46.615	0.00	0.00
ATOM 29602	HB2	CYS	1977	94.164	102.323	46.201	0.00	0.00
ATOM 29603	HB3	CYS	1977	93.281	101.610	47.445	0.00	0.00
ATOM 29604	SG	CYS	1977	91.926	101.719	45.361	0.00	0.00
ATOM 29605	HG	CYS	1977	91.372	100.677	45.987	0.00	0.00
ATOM 29606	C	CYS	1977	91.427	103.660	48.017	0.00	0.00
ATOM 29607	O	CYS	1977	90.369	104.166	47.606	0.00	0.00

ATOM 29608	N	ALA	1978	91.568	103.177	49.270	0.00	0.00
ATOM 29609	H	ALA	1978	92.469	102.758	49.450	0.00	0.00
ATOM 29610	CA	ALA	1978	90.537	102.916	50.219	0.00	0.00
ATOM 29611	HA	ALA	1978	89.719	102.386	49.731	0.00	0.00
ATOM 29612	CB	ALA	1978	91.131	102.012	51.294	0.00	0.00
ATOM 29613	HB1	ALA	1978	90.398	101.745	52.055	0.00	0.00
ATOM 29614	HB2	ALA	1978	91.311	101.021	50.877	0.00	0.00
ATOM 29615	HB3	ALA	1978	92.040	102.374	51.774	0.00	0.00
ATOM 29616	C	ALA	1978	89.988	104.235	50.775	0.00	0.00
ATOM 29617	O	ALA	1978	88.790	104.335	50.919	0.00	0.00
ATOM 29618	N	LEU	1979	90.893	105.205	50.928	0.00	0.00
ATOM 29619	H	LEU	1979	91.862	105.071	50.678	0.00	0.00
ATOM 29620	CA	LEU	1979	90.524	106.479	51.375	0.00	0.00
ATOM 29621	HA	LEU	1979	89.766	106.345	52.146	0.00	0.00
ATOM 29622	CB	LEU	1979	91.740	107.273	51.962	0.00	0.00
ATOM 29623	HB2	LEU	1979	92.547	107.305	51.229	0.00	0.00
ATOM 29624	HB3	LEU	1979	91.397	108.282	52.190	0.00	0.00
ATOM 29625	CG	LEU	1979	92.200	106.639	53.194	0.00	0.00
ATOM 29626	HG	LEU	1979	92.340	105.591	52.931	0.00	0.00
ATOM 29627	CD1	LEU	1979	93.552	107.282	53.554	0.00	0.00
ATOM 29628	1HD1	LEU	1979	93.399	108.346	53.735	0.00	0.00
ATOM 29629	2HD1	LEU	1979	94.021	106.813	54.419	0.00	0.00
ATOM 29630	3HD1	LEU	1979	94.286	107.211	52.752	0.00	0.00
ATOM 29631	CD2	LEU	1979	91.283	106.866	54.368	0.00	0.00
ATOM 29632	1HD2	LEU	1979	91.678	106.232	55.162	0.00	0.00
ATOM 29633	2HD2	LEU	1979	91.137	107.915	54.624	0.00	0.00

ATOM 29634	3HD2	LEU	1979	90.277	106.511	54.143	0.00	0.00
ATOM 29635	C	LEU	1979	89.840	107.303	50.297	0.00	0.00
ATOM 29636	O	LEU	1979	89.107	108.211	50.585	0.00	0.00
ATOM 29637	N	THR	1980	89.986	106.984	48.981	0.00	0.00
ATOM 29638	H	THR	1980	90.666	106.251	48.835	0.00	0.00
ATOM 29639	CA	THR	1980	89.242	107.573	47.843	0.00	0.00
ATOM 29640	HA	THR	1980	89.144	108.629	48.094	0.00	0.00
ATOM 29641	CB	THR	1980	90.041	107.428	46.547	0.00	0.00
ATOM 29642	HB	THR	1980	89.840	106.425	46.170	0.00	0.00
ATOM 29643	CG2	THR	1980	89.653	108.388	45.466	0.00	0.00
ATOM 29644	1HG2	THR	1980	89.937	109.402	45.748	0.00	0.00
ATOM 29645	2HG2	THR	1980	90.206	108.139	44.561	0.00	0.00
ATOM 29646	3HG2	THR	1980	88.571	108.352	45.336	0.00	0.00
ATOM 29647	OG1	THR	1980	91.472	107.673	46.629	0.00	0.00
ATOM 29648	HG1	THR	1980	91.797	107.087	47.317	0.00	0.00
ATOM 29649	C	THR	1980	87.850	106.953	47.739	0.00	0.00
ATOM 29650	O	THR	1980	86.884	107.566	47.339	0.00	0.00
ATOM 29651	N	VAL	1981	87.614	105.723	48.106	0.00	0.00
ATOM 29652	H	VAL	1981	88.363	105.163	48.486	0.00	0.00
ATOM 29653	CA	VAL	1981	86.258	105.085	48.267	0.00	0.00
ATOM 29654	HA	VAL	1981	85.635	105.479	47.463	0.00	0.00
ATOM 29655	CB	VAL	1981	86.374	103.505	48.276	0.00	0.00
ATOM 29656	HB	VAL	1981	87.124	103.162	48.988	0.00	0.00
ATOM 29657	CG1	VAL	1981	85.111	102.845	48.799	0.00	0.00
ATOM 29658	1HG1	VAL	1981	85.190	102.602	49.859	0.00	0.00
ATOM 29659	2HG1	VAL	1981	84.249	103.503	48.690	0.00	0.00



ATOM	29660	3HG1	VAL	1981	84.962	101.867	48.341	0.00	0.00
ATOM	29661	CG2	VAL	1981	86.846	103.087	46.872	0.00	0.00
ATOM	29662	1HG2	VAL	1981	87.747	103.672	46.683	0.00	0.00
ATOM	29663	2HG2	VAL	1981	86.819	101.999	46.819	0.00	0.00
ATOM	29664	3HG2	VAL	1981	86.106	103.363	46.121	0.00	0.00
ATOM	29665	C	VAL	1981	85.600	105.476	49.555	0.00	0.00
ATOM	29666	O	VAL	1981	84.382	105.707	49.573	0.00	0.00
ATOM	29667	N	ALA	1982	86.352	105.627	50.669	0.00	0.00
ATOM	29668	H	ALA	1982	87.254	105.177	50.732	0.00	0.00
ATOM	29669	CA	ALA	1982	85.776	106.127	51.902	0.00	0.00
ATOM	29670	HA	ALA	1982	84.972	105.468	52.232	0.00	0.00
ATOM	29671	CB	ALA	1982	86.830	106.227	52.985	0.00	0.00
ATOM	29672	HB1	ALA	1982	87.547	106.965	52.624	0.00	0.00
ATOM	29673	HB2	ALA	1982	86.352	106.557	53.907	0.00	0.00
ATOM	29674	HB3	ALA	1982	87.408	105.305	53.045	0.00	0.00
ATOM	29675	C	ALA	1982	85.141	107.436	51.732	0.00	0.00
ATOM	29676	O	ALA	1982	84.110	107.669	52.261	0.00	0.00
ATOM	29677	N	ASP	1983	85.756	108.324	50.939	0.00	0.00
ATOM	29678	H	ASP	1983	86.652	108.087	50.537	0.00	0.00
ATOM	29679	CA	ASP	1983	85.239	109.721	50.729	0.00	0.00
ATOM	29680	HA	ASP	1983	85.247	110.222	51.697	0.00	0.00
ATOM	29681	CB	ASP	1983	86.364	110.371	49.847	0.00	0.00
ATOM	29682	HB2	ASP	1983	87.254	110.514	50.459	0.00	0.00
ATOM	29683	HB3	ASP	1983	86.589	109.666	49.046	0.00	0.00
ATOM	29684	CG	ASP	1983	86.203	111.792	49.349	0.00	0.00
ATOM	29685	OD1	ASP	1983	86.187	111.898	48.144	0.00	0.00

ATOM	29686	OD2	ASP	1983	86.087	112.786	50.110	0.00	0.00
ATOM	29687	C	ASP	1983	83.927	109.822	49.940	0.00	0.00
ATOM	29688	O	ASP	1983	83.133	110.793	50.060	0.00	0.00
ATOM	29689	N	GLU	1984	83.585	108.746	49.192	0.00	0.00
ATOM	29690	H	GLU	1984	84.122	107.892	49.247	0.00	0.00
ATOM	29691	CA	GLU	1984	82.368	108.558	48.404	0.00	0.00
ATOM	29692	HA	GLU	1984	81.882	109.517	48.223	0.00	0.00
ATOM	29693	CB	GLU	1984	82.756	108.348	46.927	0.00	0.00
ATOM	29694	HB2	GLU	1984	81.848	108.318	46.325	0.00	0.00
ATOM	29695	HB3	GLU	1984	83.363	109.203	46.630	0.00	0.00
ATOM	29696	CG	GLU	1984	83.451	107.021	46.759	0.00	0.00
ATOM	29697	HG2	GLU	1984	84.372	107.106	47.336	0.00	0.00
ATOM	29698	HG3	GLU	1984	82.955	106.131	47.146	0.00	0.00
ATOM	29699	CD	GLU	1984	83.811	106.731	45.307	0.00	0.00
ATOM	29700	OE1	GLU	1984	83.026	107.140	44.456	0.00	0.00
ATOM	29701	OE2	GLU	1984	84.889	106.173	45.069	0.00	0.00
ATOM	29702	C	GLU	1984	81.266	107.650	48.912	0.00	0.00
ATOM	29703	O	GLU	1984	80.112	107.790	48.609	0.00	0.00
ATOM	29704	N	MET	1985	81.550	106.621	49.764	0.00	0.00
ATOM	29705	H	MET	1985	82.549	106.559	49.900	0.00	0.00
ATOM	29706	CA	MET	1985	80.596	105.574	50.261	0.00	0.00
ATOM	29707	HA	MET	1985	79.572	105.830	49.989	0.00	0.00
ATOM	29708	CB	MET	1985	80.853	104.196	49.677	0.00	0.00
ATOM	29709	HB2	MET	1985	81.791	103.833	50.098	0.00	0.00
ATOM	29710	HB3	MET	1985	80.102	103.580	50.173	0.00	0.00
ATOM	29711	CG	MET	1985	80.861	104.032	48.148	0.00	0.00

ATOM	29712	HG2	MET	1985	79.997	104.548	47.729	0.00	0.00
ATOM	29713	HG3	MET	1985	81.754	104.490	47.723	0.00	0.00
ATOM	29714	SD	MET	1985	80.916	102.222	47.673	0.00	0.00
ATOM	29715	CE	MET	1985	79.907	102.218	46.164	0.00	0.00
ATOM	29716	HE1	MET	1985	78.982	102.774	46.318	0.00	0.00
ATOM	29717	HE2	MET	1985	80.449	102.786	45.408	0.00	0.00
ATOM	29718	HE3	MET	1985	79.701	101.224	45.766	0.00	0.00
ATOM	29719	C	MET	1985	80.565	105.549	51.767	0.00	0.00
ATOM	29720	O	MET	1985	80.025	104.672	52.401	0.00	0.00
ATOM	29721	N	ASP	1986	81.133	106.590	52.409	0.00	0.00
ATOM	29722	H	ASP	1986	81.247	107.393	51.807	0.00	0.00
ATOM	29723	CA	ASP	1986	80.983	106.902	53.814	0.00	0.00
ATOM	29724	HA	ASP	1986	81.864	107.513	54.008	0.00	0.00
ATOM	29725	CB	ASP	1986	79.677	107.748	54.016	0.00	0.00
ATOM	29726	HB2	ASP	1986	79.644	108.512	53.239	0.00	0.00
ATOM	29727	HB3	ASP	1986	78.785	107.134	53.888	0.00	0.00
ATOM	29728	CG	ASP	1986	79.791	108.452	55.410	0.00	0.00
ATOM	29729	OD1	ASP	1986	78.788	108.485	56.187	0.00	0.00
ATOM	29730	OD2	ASP	1986	80.749	109.229	55.554	0.00	0.00
ATOM	29731	C	ASP	1986	81.093	105.753	54.823	0.00	0.00
ATOM	29732	O	ASP	1986	80.151	105.476	55.636	0.00	0.00
ATOM	29733	N	ILE	1987	82.306	105.129	54.892	0.00	0.00
ATOM	29734	H	ILE	1987	82.956	105.463	54.194	0.00	0.00
ATOM	29735	CA	ILE	1987	82.750	104.004	55.787	0.00	0.00
ATOM	29736	HA	ILE	1987	81.988	103.860	56.553	0.00	0.00
ATOM	29737	CB	ILE	1987	82.896	102.747	55.016	0.00	0.00

ATOM 29738	HB ILE 1987	83.310	102.006	55.700	0.00	0.00
ATOM 29739	CG2 ILE 1987	81.566	102.238	54.586	0.00	0.00
ATOM 29740	1HG2 ILE 1987	81.577	101.178	54.334	0.00	0.00
ATOM 29741	2HG2 ILE 1987	80.916	102.357	55.453	0.00	0.00
ATOM 29742	3HG2 ILE 1987	81.172	102.898	53.813	0.00	0.00
ATOM 29743	CG1 ILE 1987	83.876	102.810	53.784	0.00	0.00
ATOM 29744	2HG1 ILE 1987	83.466	102.116	53.051	0.00	0.00
ATOM 29745	3HG1 ILE 1987	83.946	103.818	53.374	0.00	0.00
ATOM 29746	CD1 ILE 1987	85.282	102.386	54.172	0.00	0.00
ATOM 29747	1HD1 ILE 1987	85.173	101.520	54.825	0.00	0.00
ATOM 29748	2HD1 ILE 1987	85.841	101.961	53.338	0.00	0.00
ATOM 29749	3HD1 ILE 1987	85.912	103.215	54.493	0.00	0.00
ATOM 29750	C ILE 1987	84.031	104.300	56.503	0.00	0.00
ATOM 29751	O ILE 1987	84.716	105.301	56.236	0.00	0.00
ATOM 29752	N GLN 1988	84.477	103.461	57.507	0.00	0.00
ATOM 29753	H GLN 1988	84.054	102.557	57.661	0.00	0.00
ATOM 29754	CA GLN 1988	85.802	103.724	58.084	0.00	0.00
ATOM 29755	HA GLN 1988	86.051	104.782	57.995	0.00	0.00
ATOM 29756	CB GLN 1988	85.534	103.442	59.564	0.00	0.00
ATOM 29757	HB2 GLN 1988	84.768	104.142	59.896	0.00	0.00
ATOM 29758	HB3 GLN 1988	85.288	102.392	59.725	0.00	0.00
ATOM 29759	CG GLN 1988	86.826	103.724	60.380	0.00	0.00
ATOM 29760	HG2 GLN 1988	86.614	103.400	61.400	0.00	0.00
ATOM 29761	HG3 GLN 1988	87.600	103.071	59.977	0.00	0.00
ATOM 29762	CD GLN 1988	87.315	105.147	60.422	0.00	0.00
ATOM 29763	OE1 GLN 1988	87.960	105.733	59.544	0.00	0.00

ATOM 29764	NE2	GLN	1988	86.835	105.834	61.446	0.00	0.00
ATOM 29765	1HE2	GLN	1988	87.289	106.715	61.640	0.00	0.00
ATOM 29766	2HE2	GLN	1988	86.135	105.470	62.076	0.00	0.00
ATOM 29767	C	GLN	1988	86.911	102.901	57.413	0.00	0.00
ATOM 29768	O	GLN	1988	86.651	101.758	56.979	0.00	0.00
ATOM 29769	N	VAL	1989	88.110	103.392	57.376	0.00	0.00
ATOM 29770	H	VAL	1989	88.346	104.067	58.089	0.00	0.00
ATOM 29771	CA	VAL	1989	89.278	102.552	57.040	0.00	0.00
ATOM 29772	HA	VAL	1989	88.925	101.611	56.618	0.00	0.00
ATOM 29773	CB	VAL	1989	90.213	103.225	55.992	0.00	0.00
ATOM 29774	HB	VAL	1989	90.444	104.186	56.453	0.00	0.00
ATOM 29775	CG1	VAL	1989	91.459	102.481	55.676	0.00	0.00
ATOM 29776	1HG1	VAL	1989	92.171	102.374	56.494	0.00	0.00
ATOM 29777	2HG1	VAL	1989	91.187	101.497	55.293	0.00	0.00
ATOM 29778	3HG1	VAL	1989	91.978	103.071	54.921	0.00	0.00
ATOM 29779	CG2	VAL	1989	89.411	103.538	54.684	0.00	0.00
ATOM 29780	1HG2	VAL	1989	88.797	102.647	54.546	0.00	0.00
ATOM 29781	2HG2	VAL	1989	88.625	104.264	54.890	0.00	0.00
ATOM 29782	3HG2	VAL	1989	90.099	103.818	53.887	0.00	0.00
ATOM 29783	C	VAL	1989	90.030	102.264	58.389	0.00	0.00
ATOM 29784	O	VAL	1989	90.097	103.165	59.287	0.00	0.00
ATOM 29785	N	ALA	1990	90.650	101.111	58.467	0.00	0.00
ATOM 29786	H	ALA	1990	90.502	100.535	57.651	0.00	0.00
ATOM 29787	CA	ALA	1990	91.343	100.567	59.645	0.00	0.00
ATOM 29788	HA	ALA	1990	91.474	101.431	60.296	0.00	0.00
ATOM 29789	CB	ALA	1990	90.329	99.555	60.299	0.00	0.00

ATOM 29790	HB1	ALA	1990	89.308	99.926	60.204	0.00	0.00
ATOM 29791	HB2	ALA	1990	90.274	98.626	59.731	0.00	0.00
ATOM 29792	HB3	ALA	1990	90.540	99.305	61.338	0.00	0.00
ATOM 29793	C	ALA	1990	92.730	100.037	59.304	0.00	0.00
ATOM 29794	O	ALA	1990	93.009	99.622	58.165	0.00	0.00
ATOM 29795	N	LEU	1991	93.677	100.255	60.189	0.00	0.00
ATOM 29796	H	LEU	1991	93.356	100.866	60.926	0.00	0.00
ATOM 29797	CA	LEU	1991	95.143	100.236	59.975	0.00	0.00
ATOM 29798	HA	LEU	1991	95.311	100.024	58.919	0.00	0.00
ATOM 29799	CB	LEU	1991	95.768	101.635	60.213	0.00	0.00
ATOM 29800	HB2	LEU	1991	95.178	102.317	59.601	0.00	0.00
ATOM 29801	HB3	LEU	1991	95.706	101.778	61.292	0.00	0.00
ATOM 29802	CG	LEU	1991	97.255	101.767	59.827	0.00	0.00
ATOM 29803	HG	LEU	1991	97.954	101.158	60.400	0.00	0.00
ATOM 29804	CD1	LEU	1991	97.558	101.456	58.309	0.00	0.00
ATOM 29805	1HD1	LEU	1991	96.654	101.911	57.904	0.00	0.00
ATOM 29806	2HD1	LEU	1991	98.498	101.921	58.009	0.00	0.00
ATOM 29807	3HD1	LEU	1991	97.592	100.377	58.161	0.00	0.00
ATOM 29808	CD2	LEU	1991	97.743	103.161	60.106	0.00	0.00
ATOM 29809	1HD2	LEU	1991	97.748	103.409	61.167	0.00	0.00
ATOM 29810	2HD2	LEU	1991	98.812	103.263	59.918	0.00	0.00
ATOM 29811	3HD2	LEU	1991	97.214	103.821	59.419	0.00	0.00
ATOM 29812	C	LEU	1991	95.809	99.106	60.807	0.00	0.00
ATOM 29813	O	LEU	1991	95.971	99.318	62.002	0.00	0.00
ATOM 29814	N	H11	1992	96.227	98.004	60.231	0.00	0.00
ATOM 29815	H	H11	1992	95.889	97.855	59.291	0.00	0.00

ATOM 29816	CA	H11	1992	97.462	97.348	60.719	0.00	0.00
ATOM 29817	HA	H11	1992	97.798	97.791	61.657	0.00	0.00
ATOM 29818	CB	H11	1992	97.223	95.842	61.004	0.00	0.00
ATOM 29819	HB2	H11	1992	96.508	95.741	61.821	0.00	0.00
ATOM 29820	HB3	H11	1992	96.760	95.294	60.183	0.00	0.00
ATOM 29821	CG	H11	1992	98.363	94.984	61.420	0.00	0.00
ATOM 29822	ND1	H11	1992	98.317	93.987	62.446	0.00	0.00
ATOM 29823	CE1	H11	1992	99.551	93.367	62.390	0.00	0.00
ATOM 29824	HE1	H11	1992	99.802	92.477	62.948	0.00	0.00
ATOM 29825	NE2	H11	1992	100.312	93.883	61.445	0.00	0.00
ATOM 29826	HE2	H11	1992	101.090	93.430	60.987	0.00	0.00
ATOM 29827	CD2	H11	1992	99.635	94.940	60.880	0.00	0.00
ATOM 29828	HD2	H11	1992	99.831	95.526	59.995	0.00	0.00
ATOM 29829	C	H11	1992	98.529	97.602	59.671	0.00	0.00
ATOM 29830	O	H11	1992	98.515	97.098	58.578	0.00	0.00
ATOM 29831	N	SER	1993	99.460	98.446	60.007	0.00	0.00
ATOM 29832	H	SER	1993	99.496	98.796	60.954	0.00	0.00
ATOM 29833	CA	SER	1993	100.540	98.849	59.057	0.00	0.00
ATOM 29834	HA	SER	1993	100.090	99.064	58.088	0.00	0.00
ATOM 29835	CB	SER	1993	100.948	100.257	59.528	0.00	0.00
ATOM 29836	HB2	SER	1993	101.742	100.623	58.877	0.00	0.00
ATOM 29837	HB3	SER	1993	100.195	101.044	59.504	0.00	0.00
ATOM 29838	OG	SER	1993	101.447	100.288	60.844	0.00	0.00
ATOM 29839	HG	SER	1993	100.685	100.277	61.426	0.00	0.00
ATOM 29840	C	SER	1993	101.733	97.876	58.961	0.00	0.00
ATOM 29841	O	SER	1993	101.886	96.963	59.744	0.00	0.00

ATOM	29842	N	ASP	1994	102.536	98.101	57.934	0.00	0.00
ATOM	29843	H	ASP	1994	102.324	98.904	57.360	0.00	0.00
ATOM	29844	CA	ASP	1994	103.673	97.236	57.600	0.00	0.00
ATOM	29845	HA	ASP	1994	103.428	96.218	57.298	0.00	0.00
ATOM	29846	CB	ASP	1994	104.321	97.855	56.334	0.00	0.00
ATOM	29847	HB2	ASP	1994	103.817	97.419	55.471	0.00	0.00
ATOM	29848	HB3	ASP	1994	104.135	98.927	56.406	0.00	0.00
ATOM	29849	CG	ASP	1994	105.791	97.581	56.044	0.00	0.00
ATOM	29850	OD1	ASP	1994	106.354	96.573	56.515	0.00	0.00
ATOM	29851	OD2	ASP	1994	106.255	98.233	55.127	0.00	0.00
ATOM	29852	C	ASP	1994	104.748	97.214	58.721	0.00	0.00
ATOM	29853	O	ASP	1994	105.521	98.125	58.927	0.00	0.00
ATOM	29854	N	THR	1995	104.800	96.120	59.500	0.00	0.00
ATOM	29855	H	THR	1995	104.196	95.321	59.372	0.00	0.00
ATOM	29856	CA	THR	1995	105.666	95.904	60.642	0.00	0.00
ATOM	29857	HA	THR	1995	105.582	96.776	61.291	0.00	0.00
ATOM	29858	CB	THR	1995	105.283	94.677	61.441	0.00	0.00
ATOM	29859	HB	THR	1995	105.408	93.756	60.872	0.00	0.00
ATOM	29860	CG2	THR	1995	105.909	94.625	62.850	0.00	0.00
ATOM	29861	1HG2	THR	1995	106.821	94.027	62.846	0.00	0.00
ATOM	29862	2HG2	THR	1995	106.153	95.606	63.256	0.00	0.00
ATOM	29863	3HG2	THR	1995	105.149	94.182	63.493	0.00	0.00
ATOM	29864	OG1	THR	1995	103.912	94.737	61.683	0.00	0.00
ATOM	29865	HG1	THR	1995	103.514	94.044	61.150	0.00	0.00
ATOM	29866	C	THR	1995	107.179	95.832	60.239	0.00	0.00
ATOM	29867	O	THR	1995	108.090	96.312	60.931	0.00	0.00



ATOM 29868	N	LEU	1996	107.406	95.141	59.169	0.00	0.00
ATOM 29869	H	LEU	1996	106.546	94.915	58.690	0.00	0.00
ATOM 29870	CA	LEU	1996	108.699	94.912	58.540	0.00	0.00
ATOM 29871	HA	LEU	1996	109.426	94.741	59.334	0.00	0.00
ATOM 29872	CB	LEU	1996	108.715	93.660	57.659	0.00	0.00
ATOM 29873	HB2	LEU	1996	107.973	93.831	56.879	0.00	0.00
ATOM 29874	HB3	LEU	1996	109.660	93.581	57.120	0.00	0.00
ATOM 29875	CG	LEU	1996	108.389	92.290	58.380	0.00	0.00
ATOM 29876	HG	LEU	1996	107.320	92.326	58.590	0.00	0.00
ATOM 29877	CD1	LEU	1996	108.647	91.257	57.303	0.00	0.00
ATOM 29878	1HD1	LEU	1996	108.304	90.335	57.772	0.00	0.00
ATOM 29879	2HD1	LEU	1996	108.066	91.447	56.401	0.00	0.00
ATOM 29880	3HD1	LEU	1996	109.725	91.197	57.151	0.00	0.00
ATOM 29881	CD2	LEU	1996	109.202	91.930	59.620	0.00	0.00
ATOM 29882	1HD2	LEU	1996	108.891	92.549	60.461	0.00	0.00
ATOM 29883	2HD2	LEU	1996	109.104	90.883	59.905	0.00	0.00
ATOM 29884	3HD2	LEU	1996	110.247	91.993	59.317	0.00	0.00
ATOM 29885	C	LEU	1996	109.336	96.100	57.730	0.00	0.00
ATOM 29886	O	LEU	1996	110.500	96.100	57.374	0.00	0.00
ATOM 29887	N	ASN	1997	108.619	97.221	57.599	0.00	0.00
ATOM 29888	H	ASN	1997	107.749	97.196	58.111	0.00	0.00
ATOM 29889	CA	ASN	1997	109.079	98.442	56.927	0.00	0.00
ATOM 29890	HA	ASN	1997	108.194	99.069	56.822	0.00	0.00
ATOM 29891	CB	ASN	1997	110.047	99.286	57.739	0.00	0.00
ATOM 29892	HB2	ASN	1997	110.947	98.670	57.736	0.00	0.00
ATOM 29893	HB3	ASN	1997	110.416	100.179	57.234	0.00	0.00

ATOM 29894	CG	ASN	1997	109.700	99.485	59.226	0.00	0.00
ATOM 29895	OD1	ASN	1997	108.544	99.770	59.541	0.00	0.00
ATOM 29896	ND2	ASN	1997	110.678	99.802	60.029	0.00	0.00
ATOM 29897	1HD2	ASN	1997	110.414	100.017	60.980	0.00	0.00
ATOM 29898	2HD2	ASN	1997	111.557	99.366	59.791	0.00	0.00
ATOM 29899	C	ASN	1997	109.548	98.145	55.543	0.00	0.00
ATOM 29900	O	ASN	1997	110.436	98.870	55.061	0.00	0.00
ATOM 29901	N	GLU	1998	108.902	97.173	54.838	0.00	0.00
ATOM 29902	H	GLU	1998	108.191	96.664	55.344	0.00	0.00
ATOM 29903	CA	GLU	1998	109.079	96.744	53.454	0.00	0.00
ATOM 29904	HA	GLU	1998	110.111	96.437	53.288	0.00	0.00
ATOM 29905	CB	GLU	1998	108.252	95.464	53.200	0.00	0.00
ATOM 29906	HB2	GLU	1998	108.590	94.641	53.830	0.00	0.00
ATOM 29907	HB3	GLU	1998	107.268	95.776	53.551	0.00	0.00
ATOM 29908	CG	GLU	1998	108.069	94.931	51.779	0.00	0.00
ATOM 29909	HG2	GLU	1998	107.397	95.625	51.274	0.00	0.00
ATOM 29910	HG3	GLU	1998	109.025	94.879	51.257	0.00	0.00
ATOM 29911	CD	GLU	1998	107.499	93.567	51.824	0.00	0.00
ATOM 29912	OE1	GLU	1998	108.303	92.656	51.966	0.00	0.00
ATOM 29913	OE2	GLU	1998	106.307	93.339	51.705	0.00	0.00
ATOM 29914	C	GLU	1998	108.789	97.903	52.491	0.00	0.00
ATOM 29915	O	GLU	1998	109.583	98.161	51.609	0.00	0.00
ATOM 29916	N	SER	1999	107.689	98.591	52.737	0.00	0.00
ATOM 29917	H	SER	1999	107.157	98.480	53.588	0.00	0.00
ATOM 29918	CA	SER	1999	107.058	99.576	51.861	0.00	0.00
ATOM 29919	HA	SER	1999	107.330	99.349	50.830	0.00	0.00

ATOM	29920	CB	SER	1999	105.580	99.528	51.991	0.00	0.00
ATOM	29921	HB2	SER	1999	105.146	100.310	51.368	0.00	0.00
ATOM	29922	HB3	SER	1999	105.215	98.525	51.766	0.00	0.00
ATOM	29923	OG	SER	1999	105.111	99.869	53.333	0.00	0.00
ATOM	29924	HG	SER	1999	105.461	99.236	53.964	0.00	0.00
ATOM	29925	C	SER	1999	107.516	101.017	52.091	0.00	0.00
ATOM	29926	O	SER	1999	107.539	101.807	51.196	0.00	0.00
ATOM	29927	N	GLY	2000	107.802	101.336	53.317	0.00	0.00
ATOM	29928	H	GLY	2000	107.881	100.627	54.032	0.00	0.00
ATOM	29929	CA	GLY	2000	108.021	102.642	53.867	0.00	0.00
ATOM	29930	HA2	GLY	2000	108.928	103.093	53.462	0.00	0.00
ATOM	29931	HA3	GLY	2000	107.189	103.300	53.618	0.00	0.00
ATOM	29932	C	GLY	2000	108.116	102.566	55.415	0.00	0.00
ATOM	29933	O	GLY	2000	108.023	101.464	55.958	0.00	0.00
ATOM	29934	N	PHE	2001	108.301	103.706	56.032	0.00	0.00
ATOM	29935	H	PHE	2001	108.441	104.530	55.465	0.00	0.00
ATOM	29936	CA	PHE	2001	108.226	103.893	57.479	0.00	0.00
ATOM	29937	HA	PHE	2001	108.193	102.913	57.954	0.00	0.00
ATOM	29938	CB	PHE	2001	109.499	104.660	57.810	0.00	0.00
ATOM	29939	HB2	PHE	2001	109.501	105.605	57.267	0.00	0.00
ATOM	29940	HB3	PHE	2001	109.364	104.937	58.855	0.00	0.00
ATOM	29941	CG	PHE	2001	110.869	104.011	57.688	0.00	0.00
ATOM	29942	CD1	PHE	2001	111.918	104.840	57.179	0.00	0.00
ATOM	29943	HD1	PHE	2001	111.816	105.873	56.878	0.00	0.00
ATOM	29944	CE1	PHE	2001	113.195	104.339	57.187	0.00	0.00
ATOM	29945	HE1	PHE	2001	114.003	104.845	56.680	0.00	0.00

ATOM 29946	CZ	PHE	2001	113.479	103.013	57.557	0.00	0.00
ATOM 29947	HZ	PHE	2001	114.477	102.610	57.470	0.00	0.00
ATOM 29948	CE2	PHE	2001	112.463	102.205	58.064	0.00	0.00
ATOM 29949	HE2	PHE	2001	112.610	101.180	58.372	0.00	0.00
ATOM 29950	CD2	PHE	2001	111.185	102.741	58.145	0.00	0.00
ATOM 29951	HD2	PHE	2001	110.448	102.144	58.659	0.00	0.00
ATOM 29952	C	PHE	2001	106.888	104.599	57.839	0.00	0.00
ATOM 29953	O	PHE	2001	106.139	105.002	56.916	0.00	0.00
ATOM 29954	N	VAL	2002	106.549	104.724	59.136	0.00	0.00
ATOM 29955	H	VAL	2002	107.132	104.376	59.884	0.00	0.00
ATOM 29956	CA	VAL	2002	105.242	105.296	59.573	0.00	0.00
ATOM 29957	HA	VAL	2002	104.390	104.728	59.200	0.00	0.00
ATOM 29958	CB	VAL	2002	105.133	105.400	61.101	0.00	0.00
ATOM 29959	HB	VAL	2002	105.192	104.420	61.574	0.00	0.00
ATOM 29960	CG1	VAL	2002	106.195	106.221	61.780	0.00	0.00
ATOM 29961	1HG1	VAL	2002	106.416	105.905	62.800	0.00	0.00
ATOM 29962	2HG1	VAL	2002	107.156	105.966	61.335	0.00	0.00
ATOM 29963	3HG1	VAL	2002	105.997	107.289	61.685	0.00	0.00
ATOM 29964	CG2	VAL	2002	103.809	106.066	61.546	0.00	0.00
ATOM 29965	1HG2	VAL	2002	103.714	106.005	62.630	0.00	0.00
ATOM 29966	2HG2	VAL	2002	103.821	107.124	61.286	0.00	0.00
ATOM 29967	3HG2	VAL	2002	103.017	105.484	61.075	0.00	0.00
ATOM 29968	C	VAL	2002	105.100	106.722	58.993	0.00	0.00
ATOM 29969	O	VAL	2002	103.997	106.932	58.438	0.00	0.00
ATOM 29970	N	GLU	2003	106.087	107.614	59.007	0.00	0.00
ATOM 29971	H	GLU	2003	106.938	107.399	59.507	0.00	0.00

ATOM	29972	CA	GLU	2003	105.828	108.904	58.389	0.00	0.00
ATOM	29973	HA	GLU	2003	104.988	109.297	58.961	0.00	0.00
ATOM	29974	CB	GLU	2003	106.972	109.970	58.554	0.00	0.00
ATOM	29975	HB2	GLU	2003	106.770	110.842	57.932	0.00	0.00
ATOM	29976	HB3	GLU	2003	106.923	110.271	59.600	0.00	0.00
ATOM	29977	CG	GLU	2003	108.338	109.597	58.209	0.00	0.00
ATOM	29978	HG2	GLU	2003	108.308	108.891	57.379	0.00	0.00
ATOM	29979	HG3	GLU	2003	108.975	110.420	57.883	0.00	0.00
ATOM	29980	CD	GLU	2003	109.105	109.042	59.426	0.00	0.00
ATOM	29981	OE1	GLU	2003	110.281	109.461	59.579	0.00	0.00
ATOM	29982	OE2	GLU	2003	108.605	108.156	60.142	0.00	0.00
ATOM	29983	C	GLU	2003	105.322	108.881	56.941	0.00	0.00
ATOM	29984	O	GLU	2003	104.492	109.724	56.657	0.00	0.00
ATOM	29985	N	ASP	2004	105.687	107.910	56.116	0.00	0.00
ATOM	29986	H	ASP	2004	106.180	107.104	56.475	0.00	0.00
ATOM	29987	CA	ASP	2004	105.304	107.829	54.704	0.00	0.00
ATOM	29988	HA	ASP	2004	105.211	108.832	54.289	0.00	0.00
ATOM	29989	CB	ASP	2004	106.343	107.062	53.869	0.00	0.00
ATOM	29990	HB2	ASP	2004	107.261	107.636	54.002	0.00	0.00
ATOM	29991	HB3	ASP	2004	106.567	106.100	54.330	0.00	0.00
ATOM	29992	CG	ASP	2004	106.015	106.896	52.430	0.00	0.00
ATOM	29993	OD1	ASP	2004	105.303	105.936	52.136	0.00	0.00
ATOM	29994	OD2	ASP	2004	106.603	107.576	51.535	0.00	0.00
ATOM	29995	C	ASP	2004	103.914	107.243	54.613	0.00	0.00
ATOM	29996	O	ASP	2004	103.206	107.572	53.735	0.00	0.00
ATOM	29997	N	THR	2005	103.322	106.624	55.664	0.00	0.00

ATOM 29998	H	THR	2005	103.867	106.500	56.505	0.00	0.00
ATOM 29999	CA	THR	2005	101.894	106.293	55.811	0.00	0.00
ATOM 30000	HA	THR	2005	101.471	105.957	54.864	0.00	0.00
ATOM 30001	CB	THR	2005	101.891	105.072	56.871	0.00	0.00
ATOM 30002	HB	THR	2005	102.277	105.392	57.839	0.00	0.00
ATOM 30003	CG2	THR	2005	100.555	104.362	57.111	0.00	0.00
ATOM 30004	1HG2	THR	2005	99.676	104.966	57.336	0.00	0.00
ATOM 30005	2HG2	THR	2005	100.118	103.786	56.295	0.00	0.00
ATOM 30006	3HG2	THR	2005	100.573	103.655	57.941	0.00	0.00
ATOM 30007	OG1	THR	2005	102.759	104.048	56.431	0.00	0.00
ATOM 30008	HG1	THR	2005	103.527	104.470	56.038	0.00	0.00
ATOM 30009	C	THR	2005	101.073	107.435	56.328	0.00	0.00
ATOM 30010	O	THR	2005	99.907	107.462	55.919	0.00	0.00
ATOM 30011	N	LEU	2006	101.700	108.371	57.151	0.00	0.00
ATOM 30012	H	LEU	2006	102.647	108.242	57.478	0.00	0.00
ATOM 30013	CA	LEU	2006	100.890	109.528	57.525	0.00	0.00
ATOM 30014	HA	LEU	2006	99.877	109.234	57.801	0.00	0.00
ATOM 30015	CB	LEU	2006	101.485	110.205	58.814	0.00	0.00
ATOM 30016	HB2	LEU	2006	102.421	110.681	58.523	0.00	0.00
ATOM 30017	HB3	LEU	2006	100.804	111.005	59.104	0.00	0.00
ATOM 30018	CG	LEU	2006	101.780	109.357	60.092	0.00	0.00
ATOM 30019	HG	LEU	2006	102.376	108.470	59.877	0.00	0.00
ATOM 30020	CD1	LEU	2006	102.746	110.095	61.044	0.00	0.00
ATOM 30021	1HD1	LEU	2006	103.743	110.134	60.605	0.00	0.00
ATOM 30022	2HD1	LEU	2006	102.475	111.093	61.389	0.00	0.00
ATOM 30023	3HD1	LEU	2006	102.868	109.434	61.903	0.00	0.00

ATOM 30024	CD2	LEU	2006	100.465	108.969	60.785	0.00	0.00
ATOM 30025	1HD2	LEU	2006	99.885	109.862	61.015	0.00	0.00
ATOM 30026	2HD2	LEU	2006	99.962	108.239	60.151	0.00	0.00
ATOM 30027	3HD2	LEU	2006	100.712	108.538	61.755	0.00	0.00
ATOM 30028	C	LEU	2006	100.777	110.538	56.393	0.00	0.00
ATOM 30029	O	LEU	2006	99.664	111.021	56.185	0.00	0.00
ATOM 30030	N	ALA	2007	101.815	110.696	55.543	0.00	0.00
ATOM 30031	H	ALA	2007	102.720	110.304	55.762	0.00	0.00
ATOM 30032	CA	ALA	2007	101.778	111.358	54.270	0.00	0.00
ATOM 30033	HA	ALA	2007	101.317	112.312	54.527	0.00	0.00
ATOM 30034	CB	ALA	2007	103.266	111.484	53.875	0.00	0.00
ATOM 30035	HB1	ALA	2007	103.843	110.568	54.000	0.00	0.00
ATOM 30036	HB2	ALA	2007	103.508	111.794	52.858	0.00	0.00
ATOM 30037	HB3	ALA	2007	103.817	112.075	54.606	0.00	0.00
ATOM 30038	C	ALA	2007	100.835	110.691	53.131	0.00	0.00
ATOM 30039	O	ALA	2007	100.022	111.407	52.677	0.00	0.00
ATOM 30040	N	ALA	2008	100.876	109.366	52.983	0.00	0.00
ATOM 30041	H	ALA	2008	101.550	108.906	53.578	0.00	0.00
ATOM 30042	CA	ALA	2008	99.805	108.555	52.325	0.00	0.00
ATOM 30043	HA	ALA	2008	99.886	108.848	51.278	0.00	0.00
ATOM 30044	CB	ALA	2008	100.010	107.044	52.406	0.00	0.00
ATOM 30045	HB1	ALA	2008	100.866	106.759	51.795	0.00	0.00
ATOM 30046	HB2	ALA	2008	100.026	106.690	53.437	0.00	0.00
ATOM 30047	HB3	ALA	2008	99.149	106.637	51.876	0.00	0.00
ATOM 30048	C	ALA	2008	98.369	108.860	52.848	0.00	0.00
ATOM 30049	O	ALA	2008	97.474	109.102	52.066	0.00	0.00

ATOM 30050	N	ILE	2009	98.118	108.782	54.148	0.00	0.00
ATOM 30051	H	ILE	2009	98.869	108.439	54.730	0.00	0.00
ATOM 30052	CA	ILE	2009	96.820	109.035	54.715	0.00	0.00
ATOM 30053	HA	ILE	2009	96.128	108.329	54.254	0.00	0.00
ATOM 30054	CB	ILE	2009	96.864	108.658	56.236	0.00	0.00
ATOM 30055	HB	ILE	2009	97.704	109.202	56.667	0.00	0.00
ATOM 30056	CG2	ILE	2009	95.583	109.197	56.883	0.00	0.00
ATOM 30057	1HG2	ILE	2009	94.765	108.737	56.328	0.00	0.00
ATOM 30058	2HG2	ILE	2009	95.544	108.812	57.902	0.00	0.00
ATOM 30059	3HG2	ILE	2009	95.511	110.273	57.041	0.00	0.00
ATOM 30060	CG1	ILE	2009	97.011	107.228	56.539	0.00	0.00
ATOM 30061	2HG1	ILE	2009	96.149	106.603	56.307	0.00	0.00
ATOM 30062	3HG1	ILE	2009	97.750	106.764	55.886	0.00	0.00
ATOM 30063	CD1	ILE	2009	97.541	106.924	57.991	0.00	0.00
ATOM 30064	1HD1	ILE	2009	96.857	107.320	58.742	0.00	0.00
ATOM 30065	2HD1	ILE	2009	97.746	105.859	58.095	0.00	0.00
ATOM 30066	3HD1	ILE	2009	98.499	107.429	58.110	0.00	0.00
ATOM 30067	C	ILE	2009	96.397	110.462	54.437	0.00	0.00
ATOM 30068	O	ILE	2009	95.264	110.720	54.070	0.00	0.00
ATOM 30069	N	GLY	2010	97.341	111.420	54.419	0.00	0.00
ATOM 30070	H	GLY	2010	98.273	111.137	54.685	0.00	0.00
ATOM 30071	CA	GLY	2010	97.213	112.760	53.838	0.00	0.00
ATOM 30072	HA2	GLY	2010	98.154	113.298	53.948	0.00	0.00
ATOM 30073	HA3	GLY	2010	96.840	112.698	52.815	0.00	0.00
ATOM 30074	C	GLY	2010	96.229	113.581	54.579	0.00	0.00
ATOM 30075	O	GLY	2010	95.645	114.433	53.994	0.00	0.00



ATOM 30076	N	GLY	2011	96.022	113.281	55.880	0.00	0.00
ATOM 30077	H	GLY	2011	96.634	112.562	56.238	0.00	0.00
ATOM 30078	CA	GLY	2011	95.259	113.903	56.880	0.00	0.00
ATOM 30079	HA2	GLY	2011	95.741	113.627	57.817	0.00	0.00
ATOM 30080	HA3	GLY	2011	95.276	114.980	56.711	0.00	0.00
ATOM 30081	C	GLY	2011	93.749	113.453	56.938	0.00	0.00
ATOM 30082	O	GLY	2011	92.965	114.120	57.649	0.00	0.00
ATOM 30083	N	ARG	2012	93.293	112.463	56.172	0.00	0.00
ATOM 30084	H	ARG	2012	93.965	112.066	55.531	0.00	0.00
ATOM 30085	CA	ARG	2012	91.944	111.860	56.029	0.00	0.00
ATOM 30086	HA	ARG	2012	91.220	112.673	55.978	0.00	0.00
ATOM 30087	CB	ARG	2012	91.797	111.150	54.661	0.00	0.00
ATOM 30088	HB2	ARG	2012	92.661	110.489	54.593	0.00	0.00
ATOM 30089	HB3	ARG	2012	90.910	110.518	54.697	0.00	0.00
ATOM 30090	CG	ARG	2012	91.913	112.126	53.535	0.00	0.00
ATOM 30091	HG2	ARG	2012	90.975	112.682	53.534	0.00	0.00
ATOM 30092	HG3	ARG	2012	92.780	112.773	53.667	0.00	0.00
ATOM 30093	CD	ARG	2012	92.121	111.455	52.162	0.00	0.00
ATOM 30094	HD2	ARG	2012	91.343	110.699	52.058	0.00	0.00
ATOM 30095	HD3	ARG	2012	91.880	112.256	51.463	0.00	0.00
ATOM 30096	NE	ARG	2012	93.392	110.775	51.884	0.00	0.00
ATOM 30097	HE	ARG	2012	94.064	110.685	52.632	0.00	0.00
ATOM 30098	CZ	ARG	2012	93.812	110.268	50.766	0.00	0.00
ATOM 30099	NH1	ARG	2012	92.862	110.170	49.879	0.00	0.00
ATOM 30100	1HH1	ARG	2012	93.104	109.774	48.981	0.00	0.00
ATOM 30101	2HH1	ARG	2012	91.941	110.525	50.092	0.00	0.00

ATOM 30102	NH2	ARG	2012	95.010	109.792	50.527	0.00	0.00
ATOM 30103	1HH2	ARG	2012	95.103	109.262	49.673	0.00	0.00
ATOM 30104	2HH2	ARG	2012	95.669	109.704	51.287	0.00	0.00
ATOM 30105	C	ARG	2012	91.681	110.980	57.238	0.00	0.00
ATOM 30106	O	ARG	2012	92.559	110.677	58.032	0.00	0.00
ATOM 30107	N	THR	2013	90.465	110.661	57.541	0.00	0.00
ATOM 30108	H	THR	2013	89.686	110.976	56.980	0.00	0.00
ATOM 30109	CA	THR	2013	90.080	109.993	58.799	0.00	0.00
ATOM 30110	HA	THR	2013	90.580	110.523	59.609	0.00	0.00
ATOM 30111	CB	THR	2013	88.621	110.320	59.129	0.00	0.00
ATOM 30112	HB	THR	2013	88.022	109.913	58.315	0.00	0.00
ATOM 30113	CG2	THR	2013	88.110	109.796	60.433	0.00	0.00
ATOM 30114	1HG2	THR	2013	88.632	110.148	61.323	0.00	0.00
ATOM 30115	2HG2	THR	2013	87.071	110.122	60.490	0.00	0.00
ATOM 30116	3HG2	THR	2013	88.075	108.708	60.479	0.00	0.00
ATOM 30117	OG1	THR	2013	88.434	111.725	59.160	0.00	0.00
ATOM 30118	HG1	THR	2013	87.484	111.798	59.043	0.00	0.00
ATOM 30119	C	THR	2013	90.466	108.468	58.737	0.00	0.00
ATOM 30120	O	THR	2013	90.178	107.733	57.807	0.00	0.00
ATOM 30121	N	ILE	2014	91.123	107.980	59.759	0.00	0.00
ATOM 30122	H	ILE	2014	91.523	108.579	60.467	0.00	0.00
ATOM 30123	CA	ILE	2014	91.539	106.591	59.913	0.00	0.00
ATOM 30124	HA	ILE	2014	90.702	105.999	59.541	0.00	0.00
ATOM 30125	CB	ILE	2014	92.734	106.310	59.067	0.00	0.00
ATOM 30126	HB	ILE	2014	92.562	106.786	58.102	0.00	0.00
ATOM 30127	CG2	ILE	2014	93.992	106.896	59.631	0.00	0.00

ATOM 30128	1HG2	ILE	2014	94.111	106.716	60.700	0.00	0.00
ATOM 30129	2HG2	ILE	2014	94.866	106.527	59.095	0.00	0.00
ATOM 30130	3HG2	ILE	2014	93.937	107.985	59.626	0.00	0.00
ATOM 30131	CG1	ILE	2014	92.851	104.831	58.773	0.00	0.00
ATOM 30132	2HG1	ILE	2014	93.021	104.343	59.733	0.00	0.00
ATOM 30133	3HG1	ILE	2014	91.967	104.475	58.244	0.00	0.00
ATOM 30134	CD1	ILE	2014	94.040	104.492	57.846	0.00	0.00
ATOM 30135	1HD1	ILE	2014	93.969	105.115	56.955	0.00	0.00
ATOM 30136	2HD1	ILE	2014	95.045	104.505	58.268	0.00	0.00
ATOM 30137	3HD1	ILE	2014	93.871	103.477	57.486	0.00	0.00
ATOM 30138	C	ILE	2014	91.656	106.015	61.339	0.00	0.00
ATOM 30139	O	ILE	2014	92.063	106.647	62.317	0.00	0.00
ATOM 30140	N	HID	2015	91.177	104.789	61.493	0.00	0.00
ATOM 30141	H	HID	2015	90.734	104.269	60.749	0.00	0.00
ATOM 30142	CA	HID	2015	91.232	104.104	62.793	0.00	0.00
ATOM 30143	HA	HID	2015	91.261	104.869	63.569	0.00	0.00
ATOM 30144	CB	HID	2015	89.917	103.227	62.806	0.00	0.00
ATOM 30145	HB2	HID	2015	89.075	103.920	62.796	0.00	0.00
ATOM 30146	HB3	HID	2015	89.899	102.663	61.873	0.00	0.00
ATOM 30147	CG	HID	2015	89.834	102.241	64.024	0.00	0.00
ATOM 30148	ND1	HID	2015	90.406	102.394	65.302	0.00	0.00
ATOM 30149	HD1	HID	2015	91.071	103.063	65.664	0.00	0.00
ATOM 30150	CE1	HID	2015	90.109	101.303	65.993	0.00	0.00
ATOM 30151	HE1	HID	2015	90.539	101.105	66.964	0.00	0.00
ATOM 30152	NE2	HID	2015	89.135	100.590	65.458	0.00	0.00
ATOM 30153	CD2	HID	2015	88.953	101.163	64.161	0.00	0.00

ATOM 30154	HD2	HID	2015	88.289	100.938	63.339	0.00	0.00
ATOM 30155	C	HID	2015	92.547	103.186	62.924	0.00	0.00
ATOM 30156	O	HID	2015	92.670	102.131	62.311	0.00	0.00
ATOM 30157	N	THR	2016	93.415	103.616	63.794	0.00	0.00
ATOM 30158	H	THR	2016	93.192	104.399	64.392	0.00	0.00
ATOM 30159	CA	THR	2016	94.605	102.776	64.083	0.00	0.00
ATOM 30160	HA	THR	2016	94.873	102.255	63.164	0.00	0.00
ATOM 30161	CB	THR	2016	95.909	103.449	64.344	0.00	0.00
ATOM 30162	HB	THR	2016	95.890	103.921	65.327	0.00	0.00
ATOM 30163	CG2	THR	2016	97.052	102.456	64.336	0.00	0.00
ATOM 30164	1HG2	THR	2016	97.957	103.041	64.500	0.00	0.00
ATOM 30165	2HG2	THR	2016	97.014	101.738	65.155	0.00	0.00
ATOM 30166	3HG2	THR	2016	97.105	101.847	63.433	0.00	0.00
ATOM 30167	OG1	THR	2016	96.251	104.403	63.283	0.00	0.00
ATOM 30168	HG1	THR	2016	96.724	105.150	63.657	0.00	0.00
ATOM 30169	C	THR	2016	94.296	101.696	65.119	0.00	0.00
ATOM 30170	O	THR	2016	93.857	101.980	66.250	0.00	0.00
ATOM 30171	N	PHE	2017	94.467	100.416	64.672	0.00	0.00
ATOM 30172	H	PHE	2017	94.876	100.249	63.763	0.00	0.00
ATOM 30173	CA	PHE	2017	94.537	99.279	65.553	0.00	0.00
ATOM 30174	HA	PHE	2017	93.764	99.423	66.308	0.00	0.00
ATOM 30175	CB	PHE	2017	94.290	97.997	64.851	0.00	0.00
ATOM 30176	HB2	PHE	2017	94.964	97.929	63.998	0.00	0.00
ATOM 30177	HB3	PHE	2017	94.379	97.220	65.610	0.00	0.00
ATOM 30178	CG	PHE	2017	92.845	97.751	64.369	0.00	0.00
ATOM 30179	CD1	PHE	2017	91.710	98.006	65.134	0.00	0.00

ATOM 30180	HD1	PHE	2017	91.855	98.498	66.084	0.00	0.00
ATOM 30181	CE1	PHE	2017	90.401	97.676	64.652	0.00	0.00
ATOM 30182	HE1	PHE	2017	89.593	97.955	65.312	0.00	0.00
ATOM 30183	CZ	PHE	2017	90.277	97.013	63.423	0.00	0.00
ATOM 30184	HZ	PHE	2017	89.323	96.770	62.979	0.00	0.00
ATOM 30185	CE2	PHE	2017	91.456	96.801	62.640	0.00	0.00
ATOM 30186	HE2	PHE	2017	91.279	96.413	61.648	0.00	0.00
ATOM 30187	CD2	PHE	2017	92.726	97.100	63.155	0.00	0.00
ATOM 30188	HD2	PHE	2017	93.658	96.864	62.662	0.00	0.00
ATOM 30189	C	PHE	2017	95.828	99.268	66.313	0.00	0.00
ATOM 30190	O	PHE	2017	96.823	99.538	65.695	0.00	0.00
ATOM 30191	N	H12	2018	95.698	98.793	67.513	0.00	0.00
ATOM 30192	H	H12	2018	94.785	98.729	67.940	0.00	0.00
ATOM 30193	CA	H12	2018	96.852	98.225	68.351	0.00	0.00
ATOM 30194	HA	H12	2018	96.591	98.380	69.398	0.00	0.00
ATOM 30195	CB	H12	2018	96.951	96.646	68.301	0.00	0.00
ATOM 30196	HB2	H12	2018	97.917	96.390	68.736	0.00	0.00
ATOM 30197	HB3	H12	2018	96.254	96.085	68.924	0.00	0.00
ATOM 30198	CG	H12	2018	96.941	96.149	66.820	0.00	0.00
ATOM 30199	ND1	H12	2018	97.805	96.643	65.938	0.00	0.00
ATOM 30200	HD1	H12	2018	98.407	97.437	66.101	0.00	0.00
ATOM 30201	CE1	H12	2018	97.696	95.892	64.858	0.00	0.00
ATOM 30202	HE1	H12	2018	98.395	96.064	64.053	0.00	0.00
ATOM 30203	NE2	H12	2018	96.877	94.883	65.016	0.00	0.00
ATOM 30204	CD2	H12	2018	96.342	95.023	66.263	0.00	0.00
ATOM 30205	HD2	H12	2018	95.705	94.417	66.891	0.00	0.00

ATOM 30206	C	H12	2018	98.201	98.979	68.246	0.00	0.00
ATOM 30207	O	H12	2018	99.158	98.433	67.731	0.00	0.00
ATOM 30208	N	THR	2019	98.209	100.251	68.635	0.00	0.00
ATOM 30209	H	THR	2019	97.485	100.591	69.251	0.00	0.00
ATOM 30210	CA	THR	2019	99.114	101.276	68.085	0.00	0.00
ATOM 30211	HA	THR	2019	99.268	101.066	67.027	0.00	0.00
ATOM 30212	CB	THR	2019	98.499	102.717	68.182	0.00	0.00
ATOM 30213	HB	THR	2019	98.424	102.928	69.249	0.00	0.00
ATOM 30214	CG2	THR	2019	99.238	103.833	67.376	0.00	0.00
ATOM 30215	1HG2	THR	2019	100.140	104.137	67.906	0.00	0.00
ATOM 30216	2HG2	THR	2019	99.390	103.413	66.382	0.00	0.00
ATOM 30217	3HG2	THR	2019	98.536	104.657	67.245	0.00	0.00
ATOM 30218	OG1	THR	2019	97.163	102.731	67.766	0.00	0.00
ATOM 30219	HG1	THR	2019	96.835	102.147	68.454	0.00	0.00
ATOM 30220	C	THR	2019	100.633	101.197	68.669	0.00	0.00
ATOM 30221	O	THR	2019	101.517	101.955	68.181	0.00	0.00
ATOM 30222	N	GLU	2020	100.984	100.389	69.680	0.00	0.00
ATOM 30223	H	GLU	2020	100.319	99.895	70.259	0.00	0.00
ATOM 30224	CA	GLU	2020	102.378	100.192	69.994	0.00	0.00
ATOM 30225	HA	GLU	2020	102.749	101.194	70.212	0.00	0.00
ATOM 30226	CB	GLU	2020	102.493	99.309	71.233	0.00	0.00
ATOM 30227	HB2	GLU	2020	101.799	99.662	71.996	0.00	0.00
ATOM 30228	HB3	GLU	2020	102.191	98.292	70.983	0.00	0.00
ATOM 30229	CG	GLU	2020	103.797	99.321	71.956	0.00	0.00
ATOM 30230	HG2	GLU	2020	103.926	100.319	72.375	0.00	0.00
ATOM 30231	HG3	GLU	2020	103.650	98.637	72.791	0.00	0.00

ATOM 30232	CD	GLU	2020	105.027	98.794	71.272	0.00	0.00
ATOM 30233	OE1	GLU	2020	104.954	97.829	70.472	0.00	0.00
ATOM 30234	OE2	GLU	2020	106.173	99.307	71.522	0.00	0.00
ATOM 30235	C	GLU	2020	103.206	99.625	68.873	0.00	0.00
ATOM 30236	O	GLU	2020	104.338	100.027	68.593	0.00	0.00
ATOM 30237	N	GLY	2021	102.704	98.604	68.080	0.00	0.00
ATOM 30238	H	GLY	2021	101.716	98.402	68.019	0.00	0.00
ATOM 30239	CA	GLY	2021	103.644	97.712	67.242	0.00	0.00
ATOM 30240	HA2	GLY	2021	103.413	97.707	66.177	0.00	0.00
ATOM 30241	HA3	GLY	2021	104.675	98.067	67.244	0.00	0.00
ATOM 30242	C	GLY	2021	103.813	96.247	67.714	0.00	0.00
ATOM 30243	O	GLY	2021	104.186	95.380	66.895	0.00	0.00
ATOM 30244	N	ALA	2022	103.481	95.969	69.000	0.00	0.00
ATOM 30245	H	ALA	2022	103.495	96.677	69.721	0.00	0.00
ATOM 30246	CA	ALA	2022	103.289	94.607	69.545	0.00	0.00
ATOM 30247	HA	ALA	2022	104.178	93.986	69.441	0.00	0.00
ATOM 30248	CB	ALA	2022	103.038	94.747	71.018	0.00	0.00
ATOM 30249	HB1	ALA	2022	103.891	94.300	71.529	0.00	0.00
ATOM 30250	HB2	ALA	2022	102.872	95.745	71.424	0.00	0.00
ATOM 30251	HB3	ALA	2022	102.149	94.196	71.325	0.00	0.00
ATOM 30252	C	ALA	2022	102.167	93.904	68.648	0.00	0.00
ATOM 30253	O	ALA	2022	102.394	92.795	68.096	0.00	0.00
ATOM 30254	N	GLY	2023	101.021	94.571	68.592	0.00	0.00
ATOM 30255	H	GLY	2023	100.958	95.436	69.110	0.00	0.00
ATOM 30256	CA	GLY	2023	99.929	94.179	67.716	0.00	0.00
ATOM 30257	HA2	GLY	2023	99.713	93.124	67.883	0.00	0.00

ATOM 30258	HA3	GLY	2023	98.994	94.715	67.876	0.00	0.00
ATOM 30259	C	GLY	2023	100.310	94.049	66.245	0.00	0.00
ATOM 30260	O	GLY	2023	99.567	93.396	65.474	0.00	0.00
ATOM 30261	N	GLY	2024	101.464	94.521	65.852	0.00	0.00
ATOM 30262	H	GLY	2024	102.042	94.918	66.579	0.00	0.00
ATOM 30263	CA	GLY	2024	101.998	94.827	64.516	0.00	0.00
ATOM 30264	HA2	GLY	2024	102.921	94.264	64.381	0.00	0.00
ATOM 30265	HA3	GLY	2024	101.348	94.314	63.807	0.00	0.00
ATOM 30266	C	GLY	2024	102.022	96.331	64.227	0.00	0.00
ATOM 30267	O	GLY	2024	101.489	97.158	64.938	0.00	0.00
ATOM 30268	N	GLY	2025	102.716	96.739	63.153	0.00	0.00
ATOM 30269	H	GLY	2025	103.207	96.057	62.593	0.00	0.00
ATOM 30270	CA	GLY	2025	102.815	98.132	62.736	0.00	0.00
ATOM 30271	HA2	GLY	2025	102.524	98.252	61.693	0.00	0.00
ATOM 30272	HA3	GLY	2025	102.145	98.739	63.345	0.00	0.00
ATOM 30273	C	GLY	2025	104.297	98.644	62.815	0.00	0.00
ATOM 30274	O	GLY	2025	105.162	98.012	63.529	0.00	0.00
ATOM 30275	N	HIP	2026	104.502	99.699	62.031	0.00	0.00
ATOM 30276	H	HIP	2026	103.750	100.148	61.528	0.00	0.00
ATOM 30277	CA	HIP	2026	105.851	100.143	61.639	0.00	0.00
ATOM 30278	HA	HIP	2026	106.253	99.355	61.003	0.00	0.00
ATOM 30279	CB	HIP	2026	105.804	101.474	60.908	0.00	0.00
ATOM 30280	HB2	HIP	2026	105.131	102.173	61.405	0.00	0.00
ATOM 30281	HB3	HIP	2026	106.801	101.915	60.932	0.00	0.00
ATOM 30282	CG	HIP	2026	105.422	101.460	59.455	0.00	0.00
ATOM 30283	ND1	HIP	2026	106.282	101.011	58.523	0.00	0.00



ATOM 30284	HD1	HIP	2026	107.106	100.513	58.830	0.00	0.00
ATOM 30285	CE1	HIP	2026	105.651	101.135	57.335	0.00	0.00
ATOM 30286	HE1	HIP	2026	105.973	100.754	56.376	0.00	0.00
ATOM 30287	NE2	HIP	2026	104.503	101.797	57.521	0.00	0.00
ATOM 30288	HE2	HIP	2026	103.809	101.831	56.788	0.00	0.00
ATOM 30289	CD2	HIP	2026	104.272	101.876	58.862	0.00	0.00
ATOM 30290	HD2	HIP	2026	103.417	102.358	59.313	0.00	0.00
ATOM 30291	C	HIP	2026	106.761	100.300	62.850	0.00	0.00
ATOM 30292	O	HIP	2026	106.556	101.212	63.612	0.00	0.00
ATOM 30293	N	ALA	2027	107.697	99.332	62.994	0.00	0.00
ATOM 30294	H	ALA	2027	107.997	98.719	62.250	0.00	0.00
ATOM 30295	CA	ALA	2027	108.597	99.294	64.193	0.00	0.00
ATOM 30296	HA	ALA	2027	108.083	99.567	65.114	0.00	0.00
ATOM 30297	CB	ALA	2027	109.226	97.845	64.411	0.00	0.00
ATOM 30298	HB1	ALA	2027	108.538	97.007	64.295	0.00	0.00
ATOM 30299	HB2	ALA	2027	110.022	97.695	63.681	0.00	0.00
ATOM 30300	HB3	ALA	2027	109.584	97.853	65.441	0.00	0.00
ATOM 30301	C	ALA	2027	109.687	100.281	63.863	0.00	0.00
ATOM 30302	O	ALA	2027	110.182	100.552	62.753	0.00	0.00
ATOM 30303	N	PRO	2028	110.115	100.958	64.925	0.00	0.00
ATOM 30304	CD	PRO	2028	111.313	101.857	64.833	0.00	0.00
ATOM 30305	HD2	PRO	2028	112.103	101.390	64.244	0.00	0.00
ATOM 30306	HD3	PRO	2028	111.036	102.830	64.426	0.00	0.00
ATOM 30307	CG	PRO	2028	111.746	102.030	66.234	0.00	0.00
ATOM 30308	HG2	PRO	2028	112.835	102.002	66.191	0.00	0.00
ATOM 30309	HG3	PRO	2028	111.409	103.009	66.577	0.00	0.00

ATOM 30310	CB PRO 2028	111.128	100.913	67.047	0.00	0.00
ATOM 30311	HB2 PRO 2028	111.757	100.025	66.982	0.00	0.00
ATOM 30312	HB3 PRO 2028	111.083	101.290	68.068	0.00	0.00
ATOM 30313	CA PRO 2028	109.755	100.780	66.370	0.00	0.00
ATOM 30314	HA PRO 2028	109.305	99.831	66.660	0.00	0.00
ATOM 30315	C PRO 2028	108.811	101.928	66.825	0.00	0.00
ATOM 30316	O PRO 2028	108.571	101.992	68.074	0.00	0.00
ATOM 30317	N ASP 2029	108.331	102.835	65.919	0.00	0.00
ATOM 30318	H ASP 2029	108.583	102.676	64.954	0.00	0.00
ATOM 30319	CA ASP 2029	107.804	104.148	66.255	0.00	0.00
ATOM 30320	HA ASP 2029	107.723	104.135	67.341	0.00	0.00
ATOM 30321	CB ASP 2029	108.833	105.223	65.880	0.00	0.00
ATOM 30322	HB2 ASP 2029	108.629	106.072	66.532	0.00	0.00
ATOM 30323	HB3 ASP 2029	109.836	104.814	66.002	0.00	0.00
ATOM 30324	CG ASP 2029	108.800	105.581	64.384	0.00	0.00
ATOM 30325	OD1 ASP 2029	109.099	104.642	63.635	0.00	0.00
ATOM 30326	OD2 ASP 2029	108.493	106.756	63.997	0.00	0.00
ATOM 30327	C ASP 2029	106.344	104.462	65.838	0.00	0.00
ATOM 30328	O ASP 2029	106.023	105.655	66.057	0.00	0.00
ATOM 30329	N ILE 2030	105.536	103.539	65.272	0.00	0.00
ATOM 30330	H ILE 2030	105.878	102.632	64.990	0.00	0.00
ATOM 30331	CA ILE 2030	104.129	103.704	64.955	0.00	0.00
ATOM 30332	HA ILE 2030	104.084	104.451	64.163	0.00	0.00
ATOM 30333	CB ILE 2030	103.498	102.364	64.502	0.00	0.00
ATOM 30334	HB ILE 2030	104.055	102.003	63.638	0.00	0.00
ATOM 30335	CG2 ILE 2030	103.624	101.243	65.571	0.00	0.00

ATOM	30336	1HG2	ILE	2030	103.038	101.383	66.479	0.00	0.00
ATOM	30337	2HG2	ILE	2030	103.531	100.236	65.167	0.00	0.00
ATOM	30338	3HG2	ILE	2030	104.618	101.171	66.014	0.00	0.00
ATOM	30339	CG1	ILE	2030	102.027	102.398	63.965	0.00	0.00
ATOM	30340	2HG1	ILE	2030	101.768	101.379	63.679	0.00	0.00
ATOM	30341	3HG1	ILE	2030	101.409	102.721	64.803	0.00	0.00
ATOM	30342	CD1	ILE	2030	101.650	103.255	62.795	0.00	0.00
ATOM	30343	1HD1	ILE	2030	100.651	102.963	62.472	0.00	0.00
ATOM	30344	2HD1	ILE	2030	101.772	104.334	62.896	0.00	0.00
ATOM	30345	3HD1	ILE	2030	102.310	102.925	61.993	0.00	0.00
ATOM	30346	C	ILE	2030	103.301	104.295	66.162	0.00	0.00
ATOM	30347	O	ILE	2030	102.182	104.952	65.954	0.00	0.00
ATOM	30348	N	ILE	2031	103.794	104.209	67.445	0.00	0.00
ATOM	30349	H	ILE	2031	104.553	103.563	67.609	0.00	0.00
ATOM	30350	CA	ILE	2031	103.014	104.758	68.588	0.00	0.00
ATOM	30351	HA	ILE	2031	101.999	104.362	68.543	0.00	0.00
ATOM	30352	CB	ILE	2031	103.720	104.345	69.869	0.00	0.00
ATOM	30353	HB	ILE	2031	103.990	103.293	69.768	0.00	0.00
ATOM	30354	CG2	ILE	2031	104.976	105.189	70.174	0.00	0.00
ATOM	30355	1HG2	ILE	2031	105.518	104.798	71.035	0.00	0.00
ATOM	30356	2HG2	ILE	2031	105.743	104.969	69.431	0.00	0.00
ATOM	30357	3HG2	ILE	2031	104.905	106.276	70.230	0.00	0.00
ATOM	30358	CG1	ILE	2031	102.817	104.162	71.171	0.00	0.00
ATOM	30359	2HG1	ILE	2031	102.306	105.099	71.393	0.00	0.00
ATOM	30360	3HG1	ILE	2031	102.033	103.474	70.857	0.00	0.00
ATOM	30361	CD1	ILE	2031	103.403	103.564	72.422	0.00	0.00

ATOM 30362	1HD1	ILE	2031	102.736	103.374	73.264	0.00	0.00
ATOM 30363	2HD1	ILE	2031	103.914	102.625	72.209	0.00	0.00
ATOM 30364	3HD1	ILE	2031	104.146	104.270	72.792	0.00	0.00
ATOM 30365	C	ILE	2031	102.843	106.288	68.508	0.00	0.00
ATOM 30366	O	ILE	2031	101.841	106.819	68.972	0.00	0.00
ATOM 30367	N	THR	2032	103.706	106.992	67.773	0.00	0.00
ATOM 30368	H	THR	2032	104.409	106.373	67.395	0.00	0.00
ATOM 30369	CA	THR	2032	103.606	108.487	67.501	0.00	0.00
ATOM 30370	HA	THR	2032	103.500	109.024	68.444	0.00	0.00
ATOM 30371	CB	THR	2032	104.939	108.973	66.848	0.00	0.00
ATOM 30372	HB	THR	2032	104.941	110.001	66.486	0.00	0.00
ATOM 30373	CG2	THR	2032	106.223	108.761	67.589	0.00	0.00
ATOM 30374	1HG2	THR	2032	106.524	107.714	67.618	0.00	0.00
ATOM 30375	2HG2	THR	2032	106.973	109.454	67.208	0.00	0.00
ATOM 30376	3HG2	THR	2032	106.066	108.975	68.647	0.00	0.00
ATOM 30377	OG1	THR	2032	105.184	108.229	65.700	0.00	0.00
ATOM 30378	HG1	THR	2032	105.587	107.372	65.860	0.00	0.00
ATOM 30379	C	THR	2032	102.420	108.827	66.630	0.00	0.00
ATOM 30380	O	THR	2032	101.953	109.995	66.542	0.00	0.00
ATOM 30381	N	ALA	2033	101.699	107.839	66.093	0.00	0.00
ATOM 30382	H	ALA	2033	102.136	106.930	66.135	0.00	0.00
ATOM 30383	CA	ALA	2033	100.418	108.083	65.390	0.00	0.00
ATOM 30384	HA	ALA	2033	100.623	108.808	64.603	0.00	0.00
ATOM 30385	CB	ALA	2033	99.915	106.805	64.639	0.00	0.00
ATOM 30386	HB1	ALA	2033	99.000	107.135	64.147	0.00	0.00
ATOM 30387	HB2	ALA	2033	100.666	106.373	63.978	0.00	0.00

ATOM 30388	HB3 ALA 2033	99.640	106.007	65.329	0.00	0.00
ATOM 30389	C ALA 2033	99.290	108.672	66.350	0.00	0.00
ATOM 30390	O ALA 2033	98.357	109.323	65.942	0.00	0.00
ATOM 30391	N CYS 2034	99.385	108.352	67.660	0.00	0.00
ATOM 30392	H CYS 2034	100.098	107.703	67.962	0.00	0.00
ATOM 30393	CA CYS 2034	98.370	108.827	68.602	0.00	0.00
ATOM 30394	HA CYS 2034	97.419	108.490	68.190	0.00	0.00
ATOM 30395	CB CYS 2034	98.318	108.023	69.976	0.00	0.00
ATOM 30396	HB2 CYS 2034	97.398	108.307	70.487	0.00	0.00
ATOM 30397	HB3 CYS 2034	98.313	106.948	69.796	0.00	0.00
ATOM 30398	SG CYS 2034	99.731	108.458	70.960	0.00	0.00
ATOM 30399	HG CYS 2034	100.581	107.826	70.146	0.00	0.00
ATOM 30400	C CYS 2034	98.350	110.373	68.796	0.00	0.00
ATOM 30401	O CYS 2034	97.538	110.981	69.471	0.00	0.00
ATOM 30402	N ALA 2035	99.229	111.089	68.040	0.00	0.00
ATOM 30403	H ALA 2035	99.955	110.560	67.579	0.00	0.00
ATOM 30404	CA ALA 2035	99.449	112.512	68.180	0.00	0.00
ATOM 30405	HA ALA 2035	99.076	112.793	69.165	0.00	0.00
ATOM 30406	CB ALA 2035	100.967	112.677	68.273	0.00	0.00
ATOM 30407	HB1 ALA 2035	101.381	112.346	67.320	0.00	0.00
ATOM 30408	HB2 ALA 2035	101.165	113.731	68.465	0.00	0.00
ATOM 30409	HB3 ALA 2035	101.354	112.092	69.108	0.00	0.00
ATOM 30410	C ALA 2035	98.689	113.510	67.204	0.00	0.00
ATOM 30411	O ALA 2035	99.326	114.553	67.016	0.00	0.00
ATOM 30412	N HIE 2036	97.570	113.108	66.568	0.00	0.00
ATOM 30413	H HIE 2036	97.140	112.290	66.976	0.00	0.00

ATOM 30414	CA	HIE	2036	96.939	113.632	65.401	0.00	0.00
ATOM 30415	HA	HIE	2036	97.299	114.632	65.162	0.00	0.00
ATOM 30416	CB	HIE	2036	97.303	112.862	64.144	0.00	0.00
ATOM 30417	HB2	HIE	2036	96.981	111.839	64.340	0.00	0.00
ATOM 30418	HB3	HIE	2036	96.688	113.110	63.279	0.00	0.00
ATOM 30419	CG	HIE	2036	98.754	112.972	63.840	0.00	0.00
ATOM 30420	ND1	HIE	2036	99.420	114.153	63.623	0.00	0.00
ATOM 30421	CE1	HIE	2036	100.746	113.801	63.716	0.00	0.00
ATOM 30422	HE1	HIE	2036	101.545	114.521	63.617	0.00	0.00
ATOM 30423	NE2	HIE	2036	100.887	112.523	63.900	0.00	0.00
ATOM 30424	HE2	HIE	2036	101.766	112.066	64.096	0.00	0.00
ATOM 30425	CD2	HIE	2036	99.680	111.973	64.034	0.00	0.00
ATOM 30426	HD2	HIE	2036	99.449	110.972	64.367	0.00	0.00
ATOM 30427	C	HIE	2036	95.423	113.682	65.508	0.00	0.00
ATOM 30428	O	HIE	2036	94.926	112.763	66.118	0.00	0.00
ATOM 30429	N	PRO	2037	94.731	114.649	64.863	0.00	0.00
ATOM 30430	CD	PRO	2037	95.287	115.731	64.057	0.00	0.00
ATOM 30431	HD2	PRO	2037	95.854	116.491	64.594	0.00	0.00
ATOM 30432	HD3	PRO	2037	95.932	115.340	63.270	0.00	0.00
ATOM 30433	CG	PRO	2037	94.111	116.369	63.455	0.00	0.00
ATOM 30434	HG2	PRO	2037	94.300	117.440	63.382	0.00	0.00
ATOM 30435	HG3	PRO	2037	93.896	115.899	62.496	0.00	0.00
ATOM 30436	CB	PRO	2037	93.020	116.136	64.512	0.00	0.00
ATOM 30437	HB2	PRO	2037	93.261	116.827	65.319	0.00	0.00
ATOM 30438	HB3	PRO	2037	91.999	116.246	64.147	0.00	0.00
ATOM 30439	CA	PRO	2037	93.284	114.696	64.956	0.00	0.00

ATOM 30440	HA PRO 2037	93.061	114.626	66.020	0.00	0.00
ATOM 30441	C PRO 2037	92.502	113.707	64.081	0.00	0.00
ATOM 30442	O PRO 2037	91.371	113.399	64.397	0.00	0.00
ATOM 30443	N ASN 2038	93.143	113.301	62.941	0.00	0.00
ATOM 30444	H ASN 2038	94.115	113.467	62.724	0.00	0.00
ATOM 30445	CA ASN 2038	92.487	112.342	62.004	0.00	0.00
ATOM 30446	HA ASN 2038	91.413	112.511	61.931	0.00	0.00
ATOM 30447	CB ASN 2038	92.954	112.562	60.550	0.00	0.00
ATOM 30448	HB2 ASN 2038	92.569	111.722	59.972	0.00	0.00
ATOM 30449	HB3 ASN 2038	92.658	113.530	60.145	0.00	0.00
ATOM 30450	CG ASN 2038	94.420	112.350	60.491	0.00	0.00
ATOM 30451	OD1 ASN 2038	95.254	112.876	61.226	0.00	0.00
ATOM 30452	ND2 ASN 2038	94.874	111.441	59.707	0.00	0.00
ATOM 30453	1HD2 ASN 2038	95.783	111.027	59.854	0.00	0.00
ATOM 30454	2HD2 ASN 2038	94.272	110.985	59.036	0.00	0.00
ATOM 30455	C ASN 2038	92.562	110.871	62.376	0.00	0.00
ATOM 30456	O ASN 2038	92.014	109.930	61.817	0.00	0.00
ATOM 30457	N ILE 2039	93.373	110.602	63.364	0.00	0.00
ATOM 30458	H ILE 2039	93.918	111.303	63.845	0.00	0.00
ATOM 30459	CA ILE 2039	93.730	109.183	63.763	0.00	0.00
ATOM 30460	HA ILE 2039	93.420	108.549	62.932	0.00	0.00
ATOM 30461	CB ILE 2039	95.287	109.021	63.875	0.00	0.00
ATOM 30462	HB ILE 2039	95.647	109.618	64.713	0.00	0.00
ATOM 30463	CG2 ILE 2039	95.446	107.471	64.220	0.00	0.00
ATOM 30464	1HG2 ILE 2039	96.470	107.153	64.416	0.00	0.00
ATOM 30465	2HG2 ILE 2039	94.869	107.280	65.125	0.00	0.00

ATOM 30466	3HG2	ILE	2039	95.100	106.799	63.436	0.00	0.00
ATOM 30467	CG1	ILE	2039	95.926	109.433	62.515	0.00	0.00
ATOM 30468	2HG1	ILE	2039	95.548	108.809	61.705	0.00	0.00
ATOM 30469	3HG1	ILE	2039	95.547	110.433	62.306	0.00	0.00
ATOM 30470	CD1	ILE	2039	97.463	109.339	62.491	0.00	0.00
ATOM 30471	1HD1	ILE	2039	97.804	108.342	62.769	0.00	0.00
ATOM 30472	2HD1	ILE	2039	97.907	109.712	61.568	0.00	0.00
ATOM 30473	3HD1	ILE	2039	97.750	110.004	63.305	0.00	0.00
ATOM 30474	C	ILE	2039	92.855	108.766	65.015	0.00	0.00
ATOM 30475	O	ILE	2039	93.004	109.497	66.004	0.00	0.00
ATOM 30476	N	LEU	2040	92.138	107.597	64.907	0.00	0.00
ATOM 30477	H	LEU	2040	92.098	107.100	64.029	0.00	0.00
ATOM 30478	CA	LEU	2040	91.428	107.017	66.033	0.00	0.00
ATOM 30479	HA	LEU	2040	91.461	107.759	66.831	0.00	0.00
ATOM 30480	CB	LEU	2040	90.022	106.566	65.637	0.00	0.00
ATOM 30481	HB2	LEU	2040	90.039	105.762	64.901	0.00	0.00
ATOM 30482	HB3	LEU	2040	89.473	106.138	66.476	0.00	0.00
ATOM 30483	CG	LEU	2040	88.989	107.653	65.074	0.00	0.00
ATOM 30484	HG	LEU	2040	88.024	107.183	65.262	0.00	0.00
ATOM 30485	CD1	LEU	2040	89.055	108.992	65.844	0.00	0.00
ATOM 30486	1HD1	LEU	2040	88.226	109.657	65.603	0.00	0.00
ATOM 30487	2HD1	LEU	2040	88.931	108.753	66.901	0.00	0.00
ATOM 30488	3HD1	LEU	2040	90.001	109.518	65.719	0.00	0.00
ATOM 30489	CD2	LEU	2040	89.055	107.811	63.554	0.00	0.00
ATOM 30490	1HD2	LEU	2040	89.992	108.353	63.425	0.00	0.00
ATOM 30491	2HD2	LEU	2040	89.167	106.837	63.078	0.00	0.00



ATOM 30492	3HD2	LEU	2040	88.156	108.348	63.250	0.00	0.00
ATOM 30493	C	LEU	2040	92.247	105.829	66.663	0.00	0.00
ATOM 30494	O	LEU	2040	92.136	104.722	66.143	0.00	0.00
ATOM 30495	N	PRO	2041	93.036	106.049	67.737	0.00	0.00
ATOM 30496	CD	PRO	2041	93.290	107.279	68.463	0.00	0.00
ATOM 30497	HD2	PRO	2041	93.138	108.143	67.816	0.00	0.00
ATOM 30498	HD3	PRO	2041	92.687	107.129	69.359	0.00	0.00
ATOM 30499	CG	PRO	2041	94.796	107.163	68.897	0.00	0.00
ATOM 30500	HG2	PRO	2041	95.480	107.482	68.110	0.00	0.00
ATOM 30501	HG3	PRO	2041	95.027	107.820	69.735	0.00	0.00
ATOM 30502	CB	PRO	2041	95.013	105.674	69.173	0.00	0.00
ATOM 30503	HB2	PRO	2041	96.000	105.380	68.817	0.00	0.00
ATOM 30504	HB3	PRO	2041	94.825	105.622	70.246	0.00	0.00
ATOM 30505	CA	PRO	2041	93.874	104.957	68.340	0.00	0.00
ATOM 30506	HA	PRO	2041	94.381	104.399	67.553	0.00	0.00
ATOM 30507	C	PRO	2041	93.177	103.907	69.285	0.00	0.00
ATOM 30508	O	PRO	2041	92.732	104.244	70.324	0.00	0.00
ATOM 30509	N	SER	2042	93.441	102.600	68.984	0.00	0.00
ATOM 30510	H	SER	2042	93.665	102.295	68.048	0.00	0.00
ATOM 30511	CA	SER	2042	93.359	101.491	70.017	0.00	0.00
ATOM 30512	HA	SER	2042	92.951	101.868	70.955	0.00	0.00
ATOM 30513	CB	SER	2042	92.298	100.438	69.529	0.00	0.00
ATOM 30514	HB2	SER	2042	92.012	99.895	70.430	0.00	0.00
ATOM 30515	HB3	SER	2042	91.460	100.877	68.988	0.00	0.00
ATOM 30516	OG	SER	2042	92.893	99.450	68.635	0.00	0.00
ATOM 30517	HG	SER	2042	92.307	98.690	68.671	0.00	0.00

ATOM 30518	C	SER 2042	94.675	100.854	70.540	0.00	0.00
ATOM 30519	O	SER 2042	95.713	100.921	69.914	0.00	0.00
ATOM 30520	N	SER 2043	94.600	100.291	71.766	0.00	0.00
ATOM 30521	H	SER 2043	93.732	100.053	72.225	0.00	0.00
ATOM 30522	CA	SER 2043	95.702	99.533	72.378	0.00	0.00
ATOM 30523	HA	SER 2043	96.669	100.006	72.203	0.00	0.00
ATOM 30524	CB	SER 2043	95.645	99.439	73.918	0.00	0.00
ATOM 30525	HB2	SER 2043	96.498	98.813	74.178	0.00	0.00
ATOM 30526	HB3	SER 2043	95.726	100.409	74.409	0.00	0.00
ATOM 30527	OG	SER 2043	94.413	98.878	74.332	0.00	0.00
ATOM 30528	HG	SER 2043	94.540	97.934	74.210	0.00	0.00
ATOM 30529	C	SER 2043	95.697	98.113	71.765	0.00	0.00
ATOM 30530	O	SER 2043	94.663	97.519	71.585	0.00	0.00
ATOM 30531	N	THR 2044	96.887	97.468	71.705	0.00	0.00
ATOM 30532	H	THR 2044	97.677	97.968	72.089	0.00	0.00
ATOM 30533	CA	THR 2044	97.002	96.002	71.805	0.00	0.00
ATOM 30534	HA	THR 2044	96.307	95.605	71.066	0.00	0.00
ATOM 30535	CB	THR 2044	98.464	95.574	71.608	0.00	0.00
ATOM 30536	HB	THR 2044	98.776	95.607	72.652	0.00	0.00
ATOM 30537	CG2	THR 2044	98.625	94.160	71.046	0.00	0.00
ATOM 30538	1HG2	THR 2044	97.983	93.522	71.654	0.00	0.00
ATOM 30539	2HG2	THR 2044	98.251	94.001	70.035	0.00	0.00
ATOM 30540	3HG2	THR 2044	99.639	93.787	71.188	0.00	0.00
ATOM 30541	OG1	THR 2044	99.193	96.528	70.883	0.00	0.00
ATOM 30542	HG1	THR 2044	99.342	97.301	71.433	0.00	0.00
ATOM 30543	C	THR 2044	96.411	95.404	73.152	0.00	0.00

ATOM 30544	O	THR	2044	96.076	96.232	74.032	0.00	0.00
ATOM 30545	N	ASN	2045	96.193	94.057	73.211	0.00	0.00
ATOM 30546	H	ASN	2045	96.457	93.456	72.444	0.00	0.00
ATOM 30547	CA	ASN	2045	95.357	93.298	74.212	0.00	0.00
ATOM 30548	HA	ASN	2045	94.901	94.072	74.829	0.00	0.00
ATOM 30549	CB	ASN	2045	94.257	92.546	73.435	0.00	0.00
ATOM 30550	HB2	ASN	2045	93.670	93.308	72.922	0.00	0.00
ATOM 30551	HB3	ASN	2045	94.620	92.079	72.519	0.00	0.00
ATOM 30552	CG	ASN	2045	93.352	91.633	74.258	0.00	0.00
ATOM 30553	OD1	ASN	2045	93.801	90.597	74.752	0.00	0.00
ATOM 30554	ND2	ASN	2045	92.087	91.852	74.243	0.00	0.00
ATOM 30555	1HD2	ASN	2045	91.461	91.133	74.574	0.00	0.00
ATOM 30556	2HD2	ASN	2045	91.724	92.660	73.759	0.00	0.00
ATOM 30557	C	ASN	2045	96.156	92.529	75.237	0.00	0.00
ATOM 30558	O	ASN	2045	96.097	92.873	76.397	0.00	0.00
ATOM 30559	N	PRO	2046	96.985	91.552	74.857	0.00	0.00
ATOM 30560	CD	PRO	2046	97.250	91.189	73.479	0.00	0.00
ATOM 30561	HD2	PRO	2046	96.396	90.708	73.002	0.00	0.00
ATOM 30562	HD3	PRO	2046	97.465	92.056	72.854	0.00	0.00
ATOM 30563	CG	PRO	2046	98.474	90.252	73.619	0.00	0.00
ATOM 30564	HG2	PRO	2046	98.521	89.415	72.922	0.00	0.00
ATOM 30565	HG3	PRO	2046	99.359	90.849	73.395	0.00	0.00
ATOM 30566	CB	PRO	2046	98.315	89.685	75.000	0.00	0.00
ATOM 30567	HB2	PRO	2046	97.607	88.856	74.997	0.00	0.00
ATOM 30568	HB3	PRO	2046	99.233	89.192	75.320	0.00	0.00
ATOM 30569	CA	PRO	2046	97.851	90.815	75.833	0.00	0.00

ATOM 30570	HA	PRO	2046	97.226	90.370	76.606	0.00	0.00
ATOM 30571	C	PRO	2046	98.914	91.728	76.477	0.00	0.00
ATOM 30572	O	PRO	2046	99.460	91.349	77.529	0.00	0.00
ATOM 30573	N	THR	2047	99.048	92.971	76.024	0.00	0.00
ATOM 30574	H	THR	2047	98.563	93.248	75.183	0.00	0.00
ATOM 30575	CA	THR	2047	99.839	94.000	76.605	0.00	0.00
ATOM 30576	HA	THR	2047	100.802	93.531	76.808	0.00	0.00
ATOM 30577	CB	THR	2047	100.201	95.136	75.642	0.00	0.00
ATOM 30578	HB	THR	2047	100.800	95.886	76.158	0.00	0.00
ATOM 30579	CG2	THR	2047	100.915	94.618	74.416	0.00	0.00
ATOM 30580	1HG2	THR	2047	101.824	94.081	74.690	0.00	0.00
ATOM 30581	2HG2	THR	2047	100.183	94.001	73.894	0.00	0.00
ATOM 30582	3HG2	THR	2047	101.108	95.485	73.784	0.00	0.00
ATOM 30583	OG1	THR	2047	98.935	95.606	75.126	0.00	0.00
ATOM 30584	HG1	THR	2047	99.094	96.421	74.644	0.00	0.00
ATOM 30585	C	THR	2047	99.272	94.565	77.896	0.00	0.00
ATOM 30586	O	THR	2047	99.917	95.443	78.559	0.00	0.00
ATOM 30587	N	LEU	2048	98.048	94.074	78.275	0.00	0.00
ATOM 30588	H	LEU	2048	97.642	93.303	77.763	0.00	0.00
ATOM 30589	CA	LEU	2048	97.383	94.751	79.377	0.00	0.00
ATOM 30590	HA	LEU	2048	98.009	95.573	79.724	0.00	0.00
ATOM 30591	CB	LEU	2048	96.084	95.452	78.806	0.00	0.00
ATOM 30592	HB2	LEU	2048	95.496	94.622	78.414	0.00	0.00
ATOM 30593	HB3	LEU	2048	95.434	95.835	79.593	0.00	0.00
ATOM 30594	CG	LEU	2048	96.220	96.413	77.632	0.00	0.00
ATOM 30595	HG	LEU	2048	96.735	95.844	76.858	0.00	0.00

ATOM 30596	CD1 LEU	2048	94.825	96.798	77.214	0.00	0.00
ATOM 30597	1HD1 LEU	2048	94.239	97.234	78.024	0.00	0.00
ATOM 30598	2HD1 LEU	2048	94.902	97.506	76.388	0.00	0.00
ATOM 30599	3HD1 LEU	2048	94.294	95.937	76.808	0.00	0.00
ATOM 30600	CD2 LEU	2048	97.157	97.589	78.045	0.00	0.00
ATOM 30601	1HD2 LEU	2048	98.126	97.267	78.426	0.00	0.00
ATOM 30602	2HD2 LEU	2048	97.237	98.219	77.159	0.00	0.00
ATOM 30603	3HD2 LEU	2048	96.623	98.199	78.774	0.00	0.00
ATOM 30604	C LEU	2048	97.075	93.873	80.576	0.00	0.00
ATOM 30605	O LEU	2048	96.504	92.770	80.400	0.00	0.00
ATOM 30606	N PRO	2049	97.371	94.251	81.793	0.00	0.00
ATOM 30607	CD PRO	2049	96.841	93.634	82.977	0.00	0.00
ATOM 30608	HD2 PRO	2049	95.765	93.801	83.035	0.00	0.00
ATOM 30609	HD3 PRO	2049	97.076	92.574	83.075	0.00	0.00
ATOM 30610	CG PRO	2049	97.384	94.420	84.146	0.00	0.00
ATOM 30611	HG2 PRO	2049	96.625	94.648	84.893	0.00	0.00
ATOM 30612	HG3 PRO	2049	98.119	93.829	84.692	0.00	0.00
ATOM 30613	CB PRO	2049	97.999	95.654	83.573	0.00	0.00
ATOM 30614	HB2 PRO	2049	97.199	96.394	83.537	0.00	0.00
ATOM 30615	HB3 PRO	2049	98.814	95.935	84.240	0.00	0.00
ATOM 30616	CA PRO	2049	98.308	95.287	82.141	0.00	0.00
ATOM 30617	HA PRO	2049	98.190	96.218	81.586	0.00	0.00
ATOM 30618	C PRO	2049	99.752	94.843	81.978	0.00	0.00
ATOM 30619	O PRO	2049	99.999	93.663	81.625	0.00	0.00
ATOM 30620	N TYR	2050	100.714	95.665	82.264	0.00	0.00
ATOM 30621	H TYR	2050	100.468	96.636	82.394	0.00	0.00

ATOM	30622	CA	TYR	2050	102.110	95.245	82.333	0.00	0.00
ATOM	30623	HA	TYR	2050	102.507	94.687	81.485	0.00	0.00
ATOM	30624	CB	TYR	2050	102.893	96.549	82.265	0.00	0.00
ATOM	30625	HB2	TYR	2050	102.504	97.154	81.446	0.00	0.00
ATOM	30626	HB3	TYR	2050	102.726	96.997	83.244	0.00	0.00
ATOM	30627	CG	TYR	2050	104.419	96.612	81.995	0.00	0.00
ATOM	30628	CD1	TYR	2050	104.993	95.917	80.865	0.00	0.00
ATOM	30629	HD1	TYR	2050	104.401	95.322	80.184	0.00	0.00
ATOM	30630	CE1	TYR	2050	106.376	95.963	80.733	0.00	0.00
ATOM	30631	HE1	TYR	2050	106.814	95.358	79.953	0.00	0.00
ATOM	30632	CZ	TYR	2050	107.208	96.741	81.605	0.00	0.00
ATOM	30633	OH	TYR	2050	108.551	96.735	81.401	0.00	0.00
ATOM	30634	HH	TYR	2050	109.022	97.402	81.907	0.00	0.00
ATOM	30635	CE2	TYR	2050	106.629	97.453	82.580	0.00	0.00
ATOM	30636	HE2	TYR	2050	107.288	98.023	83.219	0.00	0.00
ATOM	30637	CD2	TYR	2050	105.237	97.410	82.812	0.00	0.00
ATOM	30638	HD2	TYR	2050	104.800	98.023	83.586	0.00	0.00
ATOM	30639	C	TYR	2050	102.399	94.449	83.620	0.00	0.00
ATOM	30640	O	TYR	2050	102.271	94.974	84.680	0.00	0.00
ATOM	30641	N	THR	2051	102.794	93.199	83.399	0.00	0.00
ATOM	30642	H	THR	2051	102.829	92.885	82.440	0.00	0.00
ATOM	30643	CA	THR	2051	102.989	92.214	84.483	0.00	0.00
ATOM	30644	HA	THR	2051	103.383	92.640	85.406	0.00	0.00
ATOM	30645	CB	THR	2051	101.727	91.362	84.741	0.00	0.00
ATOM	30646	HB	THR	2051	101.947	90.972	85.734	0.00	0.00
ATOM	30647	CG2	THR	2051	100.499	92.197	84.839	0.00	0.00

ATOM	30648	1HG2	THR	2051	100.538	93.120	85.418	0.00	0.00
ATOM	30649	2HG2	THR	2051	100.292	92.456	83.800	0.00	0.00
ATOM	30650	3HG2	THR	2051	99.718	91.513	85.170	0.00	0.00
ATOM	30651	OG1	THR	2051	101.425	90.327	83.799	0.00	0.00
ATOM	30652	HG1	THR	2051	100.821	89.817	84.344	0.00	0.00
ATOM	30653	C	THR	2051	104.099	91.186	84.087	0.00	0.00
ATOM	30654	O	THR	2051	104.428	91.096	82.873	0.00	0.00
ATOM	30655	N	LEU	2052	104.633	90.437	85.060	0.00	0.00
ATOM	30656	H	LEU	2052	104.350	90.598	86.016	0.00	0.00
ATOM	30657	CA	LEU	2052	105.706	89.466	84.860	0.00	0.00
ATOM	30658	HA	LEU	2052	106.460	90.128	84.435	0.00	0.00
ATOM	30659	CB	LEU	2052	106.089	88.794	86.144	0.00	0.00
ATOM	30660	HB2	LEU	2052	107.048	88.355	85.869	0.00	0.00
ATOM	30661	HB3	LEU	2052	106.309	89.555	86.893	0.00	0.00
ATOM	30662	CG	LEU	2052	105.318	87.631	86.735	0.00	0.00
ATOM	30663	HG	LEU	2052	105.115	86.934	85.922	0.00	0.00
ATOM	30664	CD1	LEU	2052	106.032	86.802	87.788	0.00	0.00
ATOM	30665	1HD1	LEU	2052	106.922	86.305	87.401	0.00	0.00
ATOM	30666	2HD1	LEU	2052	106.314	87.353	88.686	0.00	0.00
ATOM	30667	3HD1	LEU	2052	105.359	86.098	88.278	0.00	0.00
ATOM	30668	CD2	LEU	2052	103.914	88.054	87.252	0.00	0.00
ATOM	30669	1HD2	LEU	2052	104.083	88.595	88.184	0.00	0.00
ATOM	30670	2HD2	LEU	2052	103.328	88.699	86.597	0.00	0.00
ATOM	30671	3HD2	LEU	2052	103.359	87.122	87.356	0.00	0.00
ATOM	30672	C	LEU	2052	105.337	88.390	83.788	0.00	0.00
ATOM	30673	O	LEU	2052	106.225	87.774	83.237	0.00	0.00

ATOM 30674	N	ASN 2053	104.071	88.011	83.489	0.00	0.00
ATOM 30675	H	ASN 2053	103.327	88.547	83.912	0.00	0.00
ATOM 30676	CA	ASN 2053	103.656	87.024	82.487	0.00	0.00
ATOM 30677	HA	ASN 2053	104.496	86.391	82.202	0.00	0.00
ATOM 30678	CB	ASN 2053	102.576	86.154	83.131	0.00	0.00
ATOM 30679	HB2	ASN 2053	101.842	86.892	83.452	0.00	0.00
ATOM 30680	HB3	ASN 2053	102.198	85.404	82.436	0.00	0.00
ATOM 30681	CG	ASN 2053	103.085	85.377	84.383	0.00	0.00
ATOM 30682	OD1	ASN 2053	104.183	84.870	84.281	0.00	0.00
ATOM 30683	ND2	ASN 2053	102.386	85.060	85.473	0.00	0.00
ATOM 30684	1HD2	ASN 2053	102.882	84.570	86.204	0.00	0.00
ATOM 30685	2HD2	ASN 2053	101.496	85.465	85.724	0.00	0.00
ATOM 30686	C	ASN 2053	103.295	87.747	81.142	0.00	0.00
ATOM 30687	O	ASN 2053	103.743	87.278	80.112	0.00	0.00
ATOM 30688	N	THR 2054	102.759	88.991	81.180	0.00	0.00
ATOM 30689	H	THR 2054	102.649	89.446	82.075	0.00	0.00
ATOM 30690	CA	THR 2054	102.674	89.898	79.962	0.00	0.00
ATOM 30691	HA	THR 2054	101.926	89.383	79.359	0.00	0.00
ATOM 30692	CB	THR 2054	102.107	91.251	80.412	0.00	0.00
ATOM 30693	HB	THR 2054	102.809	91.570	81.182	0.00	0.00
ATOM 30694	CG2	THR 2054	102.368	92.313	79.323	0.00	0.00
ATOM 30695	1HG2	THR 2054	103.411	92.617	79.235	0.00	0.00
ATOM 30696	2HG2	THR 2054	102.136	91.868	78.356	0.00	0.00
ATOM 30697	3HG2	THR 2054	101.734	93.180	79.509	0.00	0.00
ATOM 30698	OG1	THR 2054	100.741	91.168	80.736	0.00	0.00
ATOM 30699	HG1	THR 2054	100.373	92.036	80.920	0.00	0.00



ATOM	30700	C	THR	2054	103.997	90.064	79.232	0.00	0.00
ATOM	30701	O	THR	2054	103.997	90.028	78.018	0.00	0.00
ATOM	30702	N	ILE	2055	105.089	90.204	79.956	0.00	0.00
ATOM	30703	H	ILE	2055	105.064	90.447	80.936	0.00	0.00
ATOM	30704	CA	ILE	2055	106.435	90.380	79.385	0.00	0.00
ATOM	30705	HA	ILE	2055	106.195	91.016	78.533	0.00	0.00
ATOM	30706	CB	ILE	2055	107.376	91.277	80.271	0.00	0.00
ATOM	30707	HB	ILE	2055	108.174	91.576	79.591	0.00	0.00
ATOM	30708	CG2	ILE	2055	106.674	92.564	80.735	0.00	0.00
ATOM	30709	1HG2	ILE	2055	107.399	93.272	81.135	0.00	0.00
ATOM	30710	2HG2	ILE	2055	106.447	93.071	79.797	0.00	0.00
ATOM	30711	3HG2	ILE	2055	105.804	92.390	81.367	0.00	0.00
ATOM	30712	CG1	ILE	2055	107.908	90.600	81.518	0.00	0.00
ATOM	30713	2HG1	ILE	2055	107.103	90.164	82.110	0.00	0.00
ATOM	30714	3HG1	ILE	2055	108.611	89.858	81.141	0.00	0.00
ATOM	30715	CD1	ILE	2055	108.642	91.471	82.548	0.00	0.00
ATOM	30716	1HD1	ILE	2055	109.284	90.808	83.128	0.00	0.00
ATOM	30717	2HD1	ILE	2055	109.333	92.121	82.010	0.00	0.00
ATOM	30718	3HD1	ILE	2055	107.988	91.981	83.256	0.00	0.00
ATOM	30719	C	ILE	2055	107.170	89.065	78.834	0.00	0.00
ATOM	30720	O	ILE	2055	108.243	89.202	78.249	0.00	0.00
ATOM	30721	N	ASP	2056	106.513	87.897	78.922	0.00	0.00
ATOM	30722	H	ASP	2056	105.689	87.790	79.497	0.00	0.00
ATOM	30723	CA	ASP	2056	107.034	86.642	78.398	0.00	0.00
ATOM	30724	HA	ASP	2056	107.908	86.845	77.779	0.00	0.00
ATOM	30725	CB	ASP	2056	107.342	85.817	79.642	0.00	0.00

ATOM	30726	HB2	ASP	2056	107.759	86.500	80.383	0.00	0.00
ATOM	30727	HB3	ASP	2056	106.407	85.432	80.050	0.00	0.00
ATOM	30728	CG	ASP	2056	108.333	84.633	79.382	0.00	0.00
ATOM	30729	OD1	ASP	2056	107.846	83.521	79.044	0.00	0.00
ATOM	30730	OD2	ASP	2056	109.505	84.801	79.690	0.00	0.00
ATOM	30731	C	ASP	2056	106.023	85.962	77.440	0.00	0.00
ATOM	30732	O	ASP	2056	106.408	85.166	76.628	0.00	0.00
ATOM	30733	N	GLU	2057	104.677	86.171	77.465	0.00	0.00
ATOM	30734	H	GLU	2057	104.303	86.720	78.226	0.00	0.00
ATOM	30735	CA	GLU	2057	103.772	85.321	76.630	0.00	0.00
ATOM	30736	HA	GLU	2057	104.156	84.301	76.642	0.00	0.00
ATOM	30737	CB	GLU	2057	102.399	85.245	77.194	0.00	0.00
ATOM	30738	HB2	GLU	2057	101.908	84.507	76.559	0.00	0.00
ATOM	30739	HB3	GLU	2057	102.535	84.900	78.219	0.00	0.00
ATOM	30740	CG	GLU	2057	101.663	86.562	77.130	0.00	0.00
ATOM	30741	HG2	GLU	2057	101.986	87.185	77.964	0.00	0.00
ATOM	30742	HG3	GLU	2057	101.972	87.192	76.296	0.00	0.00
ATOM	30743	CD	GLU	2057	100.139	86.492	77.176	0.00	0.00
ATOM	30744	OE1	GLU	2057	99.529	85.399	77.222	0.00	0.00
ATOM	30745	OE2	GLU	2057	99.425	87.514	77.163	0.00	0.00
ATOM	30746	C	GLU	2057	103.776	85.690	75.138	0.00	0.00
ATOM	30747	O	GLU	2057	103.819	84.825	74.269	0.00	0.00
ATOM	30748	N	HID	2058	104.160	86.923	74.809	0.00	0.00
ATOM	30749	H	HID	2058	104.452	87.497	75.587	0.00	0.00
ATOM	30750	CA	HID	2058	104.256	87.513	73.499	0.00	0.00
ATOM	30751	HA	HID	2058	103.328	87.438	72.933	0.00	0.00

ATOM	30752	CB	HID	2058	104.674	89.010	73.661	0.00	0.00
ATOM	30753	HB2	HID	2058	105.408	89.113	74.461	0.00	0.00
ATOM	30754	HB3	HID	2058	105.056	89.460	72.744	0.00	0.00
ATOM	30755	CG	HID	2058	103.437	89.862	74.043	0.00	0.00
ATOM	30756	ND1	HID	2058	103.045	90.128	75.342	0.00	0.00
ATOM	30757	HD1	HID	2058	103.485	89.820	76.197	0.00	0.00
ATOM	30758	CE1	HID	2058	102.050	91.060	75.319	0.00	0.00
ATOM	30759	HE1	HID	2058	101.577	91.496	76.186	0.00	0.00
ATOM	30760	NE2	HID	2058	101.913	91.470	74.079	0.00	0.00
ATOM	30761	CD2	HID	2058	102.698	90.649	73.247	0.00	0.00
ATOM	30762	HD2	HID	2058	102.790	90.605	72.172	0.00	0.00
ATOM	30763	C	HID	2058	105.292	86.760	72.553	0.00	0.00
ATOM	30764	O	HID	2058	105.034	86.647	71.347	0.00	0.00
ATOM	30765	N	LEU	2059	106.413	86.351	73.179	0.00	0.00
ATOM	30766	H	LEU	2059	106.602	86.582	74.144	0.00	0.00
ATOM	30767	CA	LEU	2059	107.494	85.714	72.396	0.00	0.00
ATOM	30768	HA	LEU	2059	107.623	86.120	71.392	0.00	0.00
ATOM	30769	CB	LEU	2059	108.777	85.942	73.177	0.00	0.00
ATOM	30770	HB2	LEU	2059	108.853	85.331	74.076	0.00	0.00
ATOM	30771	HB3	LEU	2059	109.570	85.569	72.528	0.00	0.00
ATOM	30772	CG	LEU	2059	109.150	87.429	73.469	0.00	0.00
ATOM	30773	HG	LEU	2059	108.472	87.738	74.265	0.00	0.00
ATOM	30774	CD1	LEU	2059	110.520	87.473	74.015	0.00	0.00
ATOM	30775	1HD1	LEU	2059	110.598	86.853	74.908	0.00	0.00
ATOM	30776	2HD1	LEU	2059	111.160	87.072	73.229	0.00	0.00
ATOM	30777	3HD1	LEU	2059	110.804	88.481	74.317	0.00	0.00

ATOM 30778	CD2	LEU	2059	109.079	88.473	72.374	0.00	0.00
ATOM 30779	1HD2	LEU	2059	109.204	89.449	72.843	0.00	0.00
ATOM 30780	2HD2	LEU	2059	109.844	88.276	71.624	0.00	0.00
ATOM 30781	3HD2	LEU	2059	108.067	88.452	71.968	0.00	0.00
ATOM 30782	C	LEU	2059	107.181	84.248	71.962	0.00	0.00
ATOM 30783	O	LEU	2059	107.836	83.711	71.064	0.00	0.00
ATOM 30784	N	ASP	2060	106.142	83.696	72.586	0.00	0.00
ATOM 30785	H	ASP	2060	105.648	84.259	73.264	0.00	0.00
ATOM 30786	CA	ASP	2060	105.556	82.431	72.108	0.00	0.00
ATOM 30787	HA	ASP	2060	106.193	81.943	71.370	0.00	0.00
ATOM 30788	CB	ASP	2060	105.376	81.558	73.446	0.00	0.00
ATOM 30789	HB2	ASP	2060	104.893	82.169	74.207	0.00	0.00
ATOM 30790	HB3	ASP	2060	104.778	80.682	73.195	0.00	0.00
ATOM 30791	CG	ASP	2060	106.801	81.296	73.910	0.00	0.00
ATOM 30792	OD1	ASP	2060	107.584	80.745	73.103	0.00	0.00
ATOM 30793	OD2	ASP	2060	107.062	81.455	75.123	0.00	0.00
ATOM 30794	C	ASP	2060	104.169	82.616	71.302	0.00	0.00
ATOM 30795	O	ASP	2060	103.910	81.868	70.369	0.00	0.00
ATOM 30796	N	MET	2061	103.439	83.641	71.719	0.00	0.00
ATOM 30797	H	MET	2061	103.799	84.112	72.537	0.00	0.00
ATOM 30798	CA	MET	2061	102.162	83.914	71.181	0.00	0.00
ATOM 30799	HA	MET	2061	101.418	83.136	71.354	0.00	0.00
ATOM 30800	CB	MET	2061	101.557	85.128	71.657	0.00	0.00
ATOM 30801	HB2	MET	2061	101.536	85.123	72.747	0.00	0.00
ATOM 30802	HB3	MET	2061	102.175	85.962	71.326	0.00	0.00
ATOM 30803	CG	MET	2061	100.036	85.236	71.286	0.00	0.00

ATOM 30804	HG2	MET	2061	99.892	85.347	70.211	0.00	0.00
ATOM 30805	HG3	MET	2061	99.651	84.252	71.551	0.00	0.00
ATOM 30806	SD	MET	2061	99.097	86.582	71.919	0.00	0.00
ATOM 30807	CE	MET	2061	99.305	86.229	73.675	0.00	0.00
ATOM 30808	HE1	MET	2061	98.640	86.827	74.298	0.00	0.00
ATOM 30809	HE2	MET	2061	99.020	85.209	73.932	0.00	0.00
ATOM 30810	HE3	MET	2061	100.282	86.467	74.097	0.00	0.00
ATOM 30811	C	MET	2061	102.177	84.054	69.632	0.00	0.00
ATOM 30812	O	MET	2061	101.368	83.390	69.015	0.00	0.00
ATOM 30813	N	LEU	2062	103.063	84.822	68.984	0.00	0.00
ATOM 30814	H	LEU	2062	103.749	85.280	69.566	0.00	0.00
ATOM 30815	CA	LEU	2062	103.175	84.842	67.547	0.00	0.00
ATOM 30816	HA	LEU	2062	102.191	84.901	67.083	0.00	0.00
ATOM 30817	CB	LEU	2062	104.113	85.989	67.036	0.00	0.00
ATOM 30818	HB2	LEU	2062	104.030	86.047	65.951	0.00	0.00
ATOM 30819	HB3	LEU	2062	105.118	85.648	67.283	0.00	0.00
ATOM 30820	CG	LEU	2062	103.986	87.384	67.615	0.00	0.00
ATOM 30821	HG	LEU	2062	104.238	87.285	68.671	0.00	0.00
ATOM 30822	CD1	LEU	2062	104.899	88.345	66.994	0.00	0.00
ATOM 30823	1HD1	LEU	2062	105.865	87.844	66.939	0.00	0.00
ATOM 30824	2HD1	LEU	2062	104.626	88.465	65.945	0.00	0.00
ATOM 30825	3HD1	LEU	2062	104.962	89.316	67.485	0.00	0.00
ATOM 30826	CD2	LEU	2062	102.551	87.829	67.470	0.00	0.00
ATOM 30827	1HD2	LEU	2062	102.502	88.878	67.764	0.00	0.00
ATOM 30828	2HD2	LEU	2062	102.253	87.745	66.425	0.00	0.00
ATOM 30829	3HD2	LEU	2062	101.893	87.319	68.173	0.00	0.00

ATOM 30830	C	LEU	2062	103.878	83.520	67.082	0.00	0.00
ATOM 30831	O	LEU	2062	103.546	83.081	65.938	0.00	0.00
ATOM 30832	N	MET	2063	104.847	82.925	67.897	0.00	0.00
ATOM 30833	H	MET	2063	104.891	83.234	68.857	0.00	0.00
ATOM 30834	CA	MET	2063	105.629	81.735	67.427	0.00	0.00
ATOM 30835	HA	MET	2063	106.308	82.104	66.658	0.00	0.00
ATOM 30836	CB	MET	2063	106.510	81.335	68.584	0.00	0.00
ATOM 30837	HB2	MET	2063	106.888	82.322	68.848	0.00	0.00
ATOM 30838	HB3	MET	2063	105.996	81.003	69.485	0.00	0.00
ATOM 30839	CG	MET	2063	107.815	80.459	68.365	0.00	0.00
ATOM 30840	HG2	MET	2063	108.407	80.782	67.509	0.00	0.00
ATOM 30841	HG3	MET	2063	108.506	80.471	69.208	0.00	0.00
ATOM 30842	SD	MET	2063	107.403	78.698	68.184	0.00	0.00
ATOM 30843	CE	MET	2063	108.811	78.065	67.192	0.00	0.00
ATOM 30844	HE1	MET	2063	108.574	77.097	66.751	0.00	0.00
ATOM 30845	HE2	MET	2063	108.993	78.721	66.340	0.00	0.00
ATOM 30846	HE3	MET	2063	109.686	78.051	67.843	0.00	0.00
ATOM 30847	C	MET	2063	104.767	80.600	66.903	0.00	0.00
ATOM 30848	O	MET	2063	105.173	79.926	65.915	0.00	0.00
ATOM 30849	N	VAL	2064	103.664	80.293	67.572	0.00	0.00
ATOM 30850	H	VAL	2064	103.540	80.842	68.411	0.00	0.00
ATOM 30851	CA	VAL	2064	102.770	79.224	67.341	0.00	0.00
ATOM 30852	HA	VAL	2064	103.390	78.408	66.971	0.00	0.00
ATOM 30853	CB	VAL	2064	102.152	78.583	68.673	0.00	0.00
ATOM 30854	HB	VAL	2064	101.560	77.745	68.306	0.00	0.00
ATOM 30855	CG1	VAL	2064	103.266	78.230	69.681	0.00	0.00

ATOM 30856	1HG1	VAL	2064	102.771	77.923	70.602	0.00	0.00
ATOM 30857	2HG1	VAL	2064	103.956	77.427	69.425	0.00	0.00
ATOM 30858	3HG1	VAL	2064	103.737	79.165	69.983	0.00	0.00
ATOM 30859	CG2	VAL	2064	101.244	79.463	69.532	0.00	0.00
ATOM 30860	1HG2	VAL	2064	100.613	80.010	68.831	0.00	0.00
ATOM 30861	2HG2	VAL	2064	100.534	78.874	70.114	0.00	0.00
ATOM 30862	3HG2	VAL	2064	101.791	80.275	70.011	0.00	0.00
ATOM 30863	C	VAL	2064	101.827	79.500	66.154	0.00	0.00
ATOM 30864	O	VAL	2064	100.885	78.747	65.870	0.00	0.00
ATOM 30865	N	CYS	2065	101.928	80.621	65.413	0.00	0.00
ATOM 30866	H	CYS	2065	102.719	81.202	65.654	0.00	0.00
ATOM 30867	CA	CYS	2065	101.018	81.238	64.423	0.00	0.00
ATOM 30868	HA	CYS	2065	100.452	80.445	63.933	0.00	0.00
ATOM 30869	CB	CYS	2065	100.023	82.183	65.091	0.00	0.00
ATOM 30870	HB2	CYS	2065	100.633	82.930	65.598	0.00	0.00
ATOM 30871	HB3	CYS	2065	99.372	82.630	64.340	0.00	0.00
ATOM 30872	SG	CYS	2065	99.117	81.389	66.439	0.00	0.00
ATOM 30873	HG	CYS	2065	98.754	82.480	67.120	0.00	0.00
ATOM 30874	C	CYS	2065	101.820	81.849	63.318	0.00	0.00
ATOM 30875	O	CYS	2065	101.272	82.543	62.436	0.00	0.00
ATOM 30876	N	HID	2066	103.184	81.689	63.292	0.00	0.00
ATOM 30877	H	HID	2066	103.608	81.182	64.056	0.00	0.00
ATOM 30878	CA	HID	2066	104.118	82.073	62.248	0.00	0.00
ATOM 30879	HA	HID	2066	103.997	83.123	61.983	0.00	0.00
ATOM 30880	CB	HID	2066	105.554	81.990	62.919	0.00	0.00
ATOM 30881	HB2	HID	2066	105.484	82.485	63.888	0.00	0.00

ATOM	30882	HB3	HID	2066	105.793	80.946	63.125	0.00	0.00
ATOM	30883	CG	HID	2066	106.747	82.444	62.101	0.00	0.00
ATOM	30884	ND1	HID	2066	106.913	83.716	61.729	0.00	0.00
ATOM	30885	HD1	HID	2066	106.242	84.471	61.748	0.00	0.00
ATOM	30886	CE1	HID	2066	108.092	83.861	61.083	0.00	0.00
ATOM	30887	HE1	HID	2066	108.429	84.724	60.528	0.00	0.00
ATOM	30888	NE2	HID	2066	108.846	82.795	61.357	0.00	0.00
ATOM	30889	CD2	HID	2066	107.996	81.857	62.012	0.00	0.00
ATOM	30890	HD2	HID	2066	108.371	80.908	62.366	0.00	0.00
ATOM	30891	C	HID	2066	104.070	81.204	60.941	0.00	0.00
ATOM	30892	O	HID	2066	104.415	81.787	59.915	0.00	0.00
ATOM	30893	N	HIE	2067	103.545	80.030	60.985	0.00	0.00
ATOM	30894	H	HIE	2067	103.256	79.632	61.868	0.00	0.00
ATOM	30895	CA	HIE	2067	103.396	79.111	59.818	0.00	0.00
ATOM	30896	HA	HIE	2067	103.213	78.168	60.334	0.00	0.00
ATOM	30897	CB	HIE	2067	102.156	79.463	59.011	0.00	0.00
ATOM	30898	HB2	HIE	2067	102.284	80.351	58.391	0.00	0.00
ATOM	30899	HB3	HIE	2067	101.924	78.540	58.479	0.00	0.00
ATOM	30900	CG	HIE	2067	100.966	79.635	59.890	0.00	0.00
ATOM	30901	ND1	HIE	2067	100.175	78.530	60.306	0.00	0.00
ATOM	30902	CE1	HIE	2067	99.130	79.134	60.824	0.00	0.00
ATOM	30903	HE1	HIE	2067	98.311	78.553	61.222	0.00	0.00
ATOM	30904	NE2	HIE	2067	99.165	80.467	60.745	0.00	0.00
ATOM	30905	HE2	HIE	2067	98.351	81.057	60.838	0.00	0.00
ATOM	30906	CD2	HIE	2067	100.369	80.792	60.153	0.00	0.00
ATOM	30907	HD2	HIE	2067	100.706	81.771	59.847	0.00	0.00



ATOM 30908	C	HIE	2067	104.688	78.827	58.973	0.00	0.00
ATOM 30909	O	HIE	2067	104.618	78.427	57.805	0.00	0.00
ATOM 30910	N	LEU	2068	105.799	79.063	59.646	0.00	0.00
ATOM 30911	H	LEU	2068	105.795	79.447	60.580	0.00	0.00
ATOM 30912	CA	LEU	2068	107.114	78.773	59.142	0.00	0.00
ATOM 30913	HA	LEU	2068	107.184	77.990	58.386	0.00	0.00
ATOM 30914	CB	LEU	2068	107.669	80.023	58.428	0.00	0.00
ATOM 30915	HB2	LEU	2068	106.988	80.152	57.587	0.00	0.00
ATOM 30916	HB3	LEU	2068	107.478	80.837	59.128	0.00	0.00
ATOM 30917	CG	LEU	2068	109.109	79.927	57.957	0.00	0.00
ATOM 30918	HG	LEU	2068	109.485	78.913	57.815	0.00	0.00
ATOM 30919	CD1	LEU	2068	109.235	80.577	56.546	0.00	0.00
ATOM 30920	1HD1	LEU	2068	109.028	81.644	56.632	0.00	0.00
ATOM 30921	2HD1	LEU	2068	110.214	80.525	56.069	0.00	0.00
ATOM 30922	3HD1	LEU	2068	108.475	80.117	55.913	0.00	0.00
ATOM 30923	CD2	LEU	2068	110.216	80.591	58.783	0.00	0.00
ATOM 30924	1HD2	LEU	2068	111.220	80.433	58.389	0.00	0.00
ATOM 30925	2HD2	LEU	2068	110.019	81.662	58.845	0.00	0.00
ATOM 30926	3HD2	LEU	2068	110.275	80.159	59.782	0.00	0.00
ATOM 30927	C	LEU	2068	108.005	78.392	60.365	0.00	0.00
ATOM 30928	O	LEU	2068	107.788	78.898	61.499	0.00	0.00
ATOM 30929	N	ASP	2069	108.883	77.413	60.140	0.00	0.00
ATOM 30930	H	ASP	2069	108.812	77.088	59.187	0.00	0.00
ATOM 30931	CA	ASP	2069	109.868	76.888	61.100	0.00	0.00
ATOM 30932	HA	ASP	2069	109.438	76.854	62.100	0.00	0.00
ATOM 30933	CB	ASP	2069	110.233	75.427	60.757	0.00	0.00

ATOM 30934	HB2 ASP 2069	110.885	75.342	59.887	0.00	0.00
ATOM 30935	HB3 ASP 2069	109.293	74.992	60.419	0.00	0.00
ATOM 30936	CG ASP 2069	110.796	74.648	61.948	0.00	0.00
ATOM 30937	OD1 ASP 2069	110.025	74.232	62.834	0.00	0.00
ATOM 30938	OD2 ASP 2069	112.002	74.350	62.012	0.00	0.00
ATOM 30939	C ASP 2069	111.148	77.782	61.215	0.00	0.00
ATOM 30940	O ASP 2069	111.713	78.088	60.159	0.00	0.00
ATOM 30941	N PRO 2070	111.560	78.229	62.424	0.00	0.00
ATOM 30942	CD PRO 2070	110.848	78.178	63.732	0.00	0.00
ATOM 30943	HD2 PRO 2070	109.815	78.479	63.559	0.00	0.00
ATOM 30944	HD3 PRO 2070	110.828	77.135	64.047	0.00	0.00
ATOM 30945	CG PRO 2070	111.453	79.164	64.693	0.00	0.00
ATOM 30946	HG2 PRO 2070	110.766	80.010	64.651	0.00	0.00
ATOM 30947	HG3 PRO 2070	111.416	78.713	65.684	0.00	0.00
ATOM 30948	CB PRO 2070	112.866	79.361	64.128	0.00	0.00
ATOM 30949	HB2 PRO 2070	113.082	80.428	64.181	0.00	0.00
ATOM 30950	HB3 PRO 2070	113.585	78.851	64.769	0.00	0.00
ATOM 30951	CA PRO 2070	112.886	78.838	62.637	0.00	0.00
ATOM 30952	HA PRO 2070	113.029	79.707	61.995	0.00	0.00
ATOM 30953	C PRO 2070	114.018	77.876	62.327	0.00	0.00
ATOM 30954	O PRO 2070	113.905	76.710	62.638	0.00	0.00
ATOM 30955	N ASP 2071	115.082	78.434	61.823	0.00	0.00
ATOM 30956	H ASP 2071	115.118	79.437	61.705	0.00	0.00
ATOM 30957	CA ASP 2071	116.262	77.762	61.451	0.00	0.00
ATOM 30958	HA ASP 2071	116.177	76.763	61.023	0.00	0.00
ATOM 30959	CB ASP 2071	116.941	78.678	60.434	0.00	0.00

ATOM	30960	HB2	ASP	2071	116.170	78.926	59.705	0.00	0.00
ATOM	30961	HB3	ASP	2071	117.354	79.523	60.987	0.00	0.00
ATOM	30962	CG	ASP	2071	117.926	77.987	59.534	0.00	0.00
ATOM	30963	OD1	ASP	2071	119.091	78.313	59.731	0.00	0.00
ATOM	30964	OD2	ASP	2071	117.625	77.214	58.631	0.00	0.00
ATOM	30965	C	ASP	2071	117.232	77.439	62.621	0.00	0.00
ATOM	30966	O	ASP	2071	117.837	76.374	62.569	0.00	0.00
ATOM	30967	N	ILE	2072	117.312	78.243	63.654	0.00	0.00
ATOM	30968	H	ILE	2072	116.721	79.063	63.644	0.00	0.00
ATOM	30969	CA	ILE	2072	118.183	78.014	64.787	0.00	0.00
ATOM	30970	HA	ILE	2072	118.599	77.019	64.944	0.00	0.00
ATOM	30971	CB	ILE	2072	119.497	78.887	64.682	0.00	0.00
ATOM	30972	HB	ILE	2072	120.169	78.613	65.496	0.00	0.00
ATOM	30973	CG2	ILE	2072	120.220	78.605	63.307	0.00	0.00
ATOM	30974	1HG2	ILE	2072	121.271	78.840	63.474	0.00	0.00
ATOM	30975	2HG2	ILE	2072	120.360	77.559	63.032	0.00	0.00
ATOM	30976	3HG2	ILE	2072	119.724	79.183	62.527	0.00	0.00
ATOM	30977	CG1	ILE	2072	119.226	80.426	64.914	0.00	0.00
ATOM	30978	2HG1	ILE	2072	118.202	80.723	64.689	0.00	0.00
ATOM	30979	3HG1	ILE	2072	119.380	80.622	65.976	0.00	0.00
ATOM	30980	CD1	ILE	2072	120.077	81.456	64.215	0.00	0.00
ATOM	30981	1HD1	ILE	2072	120.061	81.231	63.148	0.00	0.00
ATOM	30982	2HD1	ILE	2072	119.670	82.445	64.425	0.00	0.00
ATOM	30983	3HD1	ILE	2072	121.123	81.436	64.523	0.00	0.00
ATOM	30984	C	ILE	2072	117.535	78.278	66.190	0.00	0.00
ATOM	30985	O	ILE	2072	116.492	78.987	66.197	0.00	0.00

ATOM 30986	N	ALA	2073	117.984	77.617	67.245	0.00	0.00
ATOM 30987	H	ALA	2073	118.745	76.958	67.174	0.00	0.00
ATOM 30988	CA	ALA	2073	117.294	77.587	68.591	0.00	0.00
ATOM 30989	HA	ALA	2073	116.230	77.655	68.366	0.00	0.00
ATOM 30990	CB	ALA	2073	117.428	76.256	69.224	0.00	0.00
ATOM 30991	HB1	ALA	2073	117.230	75.512	68.452	0.00	0.00
ATOM 30992	HB2	ALA	2073	118.463	76.199	69.562	0.00	0.00
ATOM 30993	HB3	ALA	2073	116.804	76.187	70.114	0.00	0.00
ATOM 30994	C	ALA	2073	117.580	78.834	69.387	0.00	0.00
ATOM 30995	O	ALA	2073	116.600	79.390	69.912	0.00	0.00
ATOM 30996	N	GLU	2074	118.755	79.416	69.368	0.00	0.00
ATOM 30997	H	GLU	2074	119.550	78.965	68.939	0.00	0.00
ATOM 30998	CA	GLU	2074	118.981	80.586	70.185	0.00	0.00
ATOM 30999	HA	GLU	2074	118.277	80.474	71.010	0.00	0.00
ATOM 31000	CB	GLU	2074	120.386	80.605	70.760	0.00	0.00
ATOM 31001	HB2	GLU	2074	121.150	80.493	69.991	0.00	0.00
ATOM 31002	HB3	GLU	2074	120.535	81.600	71.180	0.00	0.00
ATOM 31003	CG	GLU	2074	120.584	79.558	71.795	0.00	0.00
ATOM 31004	HG2	GLU	2074	119.699	79.567	72.431	0.00	0.00
ATOM 31005	HG3	GLU	2074	120.532	78.533	71.430	0.00	0.00
ATOM 31006	CD	GLU	2074	121.831	79.761	72.643	0.00	0.00
ATOM 31007	OE1	GLU	2074	121.786	80.107	73.830	0.00	0.00
ATOM 31008	OE2	GLU	2074	122.965	79.476	72.157	0.00	0.00
ATOM 31009	C	GLU	2074	118.607	81.966	69.566	0.00	0.00
ATOM 31010	O	GLU	2074	119.029	83.045	70.028	0.00	0.00
ATOM 31011	N	ASP	2075	117.789	81.963	68.512	0.00	0.00

ATOM	31012	H	ASP	2075	117.500	81.062	68.160	0.00	0.00
ATOM	31013	CA	ASP	2075	117.106	83.096	67.932	0.00	0.00
ATOM	31014	HA	ASP	2075	117.610	84.056	68.045	0.00	0.00
ATOM	31015	CB	ASP	2075	117.165	82.906	66.416	0.00	0.00
ATOM	31016	HB2	ASP	2075	118.188	82.836	66.047	0.00	0.00
ATOM	31017	HB3	ASP	2075	116.656	81.985	66.132	0.00	0.00
ATOM	31018	CG	ASP	2075	116.396	83.958	65.581	0.00	0.00
ATOM	31019	OD1	ASP	2075	116.868	85.110	65.561	0.00	0.00
ATOM	31020	OD2	ASP	2075	115.543	83.519	64.766	0.00	0.00
ATOM	31021	C	ASP	2075	115.562	83.153	68.287	0.00	0.00
ATOM	31022	O	ASP	2075	114.933	82.080	68.428	0.00	0.00
ATOM	31023	N	VAL	2076	115.048	84.408	68.271	0.00	0.00
ATOM	31024	H	VAL	2076	115.711	85.169	68.240	0.00	0.00
ATOM	31025	CA	VAL	2076	113.593	84.719	68.168	0.00	0.00
ATOM	31026	HA	VAL	2076	113.148	83.804	67.775	0.00	0.00
ATOM	31027	CB	VAL	2076	112.882	85.053	69.530	0.00	0.00
ATOM	31028	HB	VAL	2076	111.842	85.351	69.396	0.00	0.00
ATOM	31029	CG1	VAL	2076	112.943	83.968	70.560	0.00	0.00
ATOM	31030	1HG1	VAL	2076	112.663	84.297	71.561	0.00	0.00
ATOM	31031	2HG1	VAL	2076	112.293	83.114	70.370	0.00	0.00
ATOM	31032	3HG1	VAL	2076	113.970	83.606	70.599	0.00	0.00
ATOM	31033	CG2	VAL	2076	113.510	86.314	70.139	0.00	0.00
ATOM	31034	1HG2	VAL	2076	114.592	86.188	70.167	0.00	0.00
ATOM	31035	2HG2	VAL	2076	113.164	87.130	69.504	0.00	0.00
ATOM	31036	3HG2	VAL	2076	113.152	86.542	71.143	0.00	0.00
ATOM	31037	C	VAL	2076	113.197	85.747	67.121	0.00	0.00

ATOM 31038	O	VAL	2076	112.447	86.696	67.340	0.00	0.00
ATOM 31039	N	ALA	2077	113.683	85.581	65.861	0.00	0.00
ATOM 31040	H	ALA	2077	114.255	84.783	65.622	0.00	0.00
ATOM 31041	CA	ALA	2077	113.290	86.514	64.760	0.00	0.00
ATOM 31042	HA	ALA	2077	113.728	87.473	65.036	0.00	0.00
ATOM 31043	CB	ALA	2077	114.088	86.008	63.568	0.00	0.00
ATOM 31044	HB1	ALA	2077	115.111	86.072	63.938	0.00	0.00
ATOM 31045	HB2	ALA	2077	113.926	84.996	63.197	0.00	0.00
ATOM 31046	HB3	ALA	2077	113.873	86.680	62.738	0.00	0.00
ATOM 31047	C	ALA	2077	111.797	86.793	64.552	0.00	0.00
ATOM 31048	O	ALA	2077	111.441	87.980	64.402	0.00	0.00
ATOM 31049	N	PHE	2078	110.989	85.775	64.521	0.00	0.00
ATOM 31050	H	PHE	2078	111.444	84.874	64.562	0.00	0.00
ATOM 31051	CA	PHE	2078	109.547	85.829	64.413	0.00	0.00
ATOM 31052	HA	PHE	2078	109.142	85.931	63.406	0.00	0.00
ATOM 31053	CB	PHE	2078	108.977	84.461	64.718	0.00	0.00
ATOM 31054	HB2	PHE	2078	107.889	84.428	64.774	0.00	0.00
ATOM 31055	HB3	PHE	2078	109.121	83.920	63.783	0.00	0.00
ATOM 31056	CG	PHE	2078	109.697	83.607	65.715	0.00	0.00
ATOM 31057	CD1	PHE	2078	109.359	83.680	67.061	0.00	0.00
ATOM 31058	HD1	PHE	2078	108.649	84.428	67.382	0.00	0.00
ATOM 31059	CE1	PHE	2078	110.126	82.971	67.974	0.00	0.00
ATOM 31060	HE1	PHE	2078	109.893	83.034	69.027	0.00	0.00
ATOM 31061	CZ	PHE	2078	111.200	82.130	67.567	0.00	0.00
ATOM 31062	HZ	PHE	2078	111.643	81.520	68.340	0.00	0.00
ATOM 31063	CE2	PHE	2078	111.602	82.096	66.205	0.00	0.00

ATOM	31064	HE2	PHE	2078	112.399	81.434	65.900	0.00	0.00
ATOM	31065	CD2	PHE	2078	110.775	82.832	65.267	0.00	0.00
ATOM	31066	HD2	PHE	2078	111.199	82.874	64.275	0.00	0.00
ATOM	31067	C	PHE	2078	108.939	86.918	65.358	0.00	0.00
ATOM	31068	O	PHE	2078	108.149	87.718	64.964	0.00	0.00
ATOM	31069	N	ALA	2079	109.404	87.002	66.636	0.00	0.00
ATOM	31070	H	ALA	2079	110.197	86.410	66.841	0.00	0.00
ATOM	31071	CA	ALA	2079	108.979	87.921	67.680	0.00	0.00
ATOM	31072	HA	ALA	2079	107.918	88.091	67.496	0.00	0.00
ATOM	31073	CB	ALA	2079	109.043	87.167	69.038	0.00	0.00
ATOM	31074	HB1	ALA	2079	110.061	86.925	69.346	0.00	0.00
ATOM	31075	HB2	ALA	2079	108.617	87.874	69.749	0.00	0.00
ATOM	31076	HB3	ALA	2079	108.431	86.269	68.961	0.00	0.00
ATOM	31077	C	ALA	2079	109.851	89.161	67.589	0.00	0.00
ATOM	31078	O	ALA	2079	109.263	90.266	67.675	0.00	0.00
ATOM	31079	N	GLU	2080	111.197	89.192	67.536	0.00	0.00
ATOM	31080	H	GLU	2080	111.663	88.297	67.577	0.00	0.00
ATOM	31081	CA	GLU	2080	112.098	90.394	67.504	0.00	0.00
ATOM	31082	HA	GLU	2080	111.902	90.932	68.432	0.00	0.00
ATOM	31083	CB	GLU	2080	113.557	89.873	67.685	0.00	0.00
ATOM	31084	HB2	GLU	2080	113.603	89.435	68.682	0.00	0.00
ATOM	31085	HB3	GLU	2080	113.870	89.193	66.893	0.00	0.00
ATOM	31086	CG	GLU	2080	114.544	90.999	67.703	0.00	0.00
ATOM	31087	HG2	GLU	2080	114.790	91.397	66.719	0.00	0.00
ATOM	31088	HG3	GLU	2080	114.199	91.823	68.327	0.00	0.00
ATOM	31089	CD	GLU	2080	115.829	90.550	68.304	0.00	0.00

ATOM	31090	OE1	GLU	2080	116.724	90.185	67.510	0.00	0.00
ATOM	31091	OE2	GLU	2080	116.063	90.680	69.520	0.00	0.00
ATOM	31092	C	GLU	2080	111.870	91.292	66.335	0.00	0.00
ATOM	31093	O	GLU	2080	112.357	92.389	66.313	0.00	0.00
ATOM	31094	N	SER	2081	111.273	90.803	65.220	0.00	0.00
ATOM	31095	H	SER	2081	111.086	89.817	65.109	0.00	0.00
ATOM	31096	CA	SER	2081	110.840	91.633	64.099	0.00	0.00
ATOM	31097	HA	SER	2081	111.694	92.306	64.029	0.00	0.00
ATOM	31098	CB	SER	2081	110.829	90.751	62.831	0.00	0.00
ATOM	31099	HB2	SER	2081	109.901	90.183	62.891	0.00	0.00
ATOM	31100	HB3	SER	2081	110.642	91.401	61.976	0.00	0.00
ATOM	31101	OG	SER	2081	111.891	89.839	62.576	0.00	0.00
ATOM	31102	HG	SER	2081	111.617	89.070	63.081	0.00	0.00
ATOM	31103	C	SER	2081	109.484	92.398	64.353	0.00	0.00
ATOM	31104	O	SER	2081	108.969	92.892	63.374	0.00	0.00
ATOM	31105	N	ARG	2082	108.865	92.411	65.550	0.00	0.00
ATOM	31106	H	ARG	2082	109.405	91.898	66.232	0.00	0.00
ATOM	31107	CA	ARG	2082	107.529	92.945	65.827	0.00	0.00
ATOM	31108	HA	ARG	2082	107.363	93.858	65.255	0.00	0.00
ATOM	31109	CB	ARG	2082	106.578	91.877	65.356	0.00	0.00
ATOM	31110	HB2	ARG	2082	106.855	90.846	65.578	0.00	0.00
ATOM	31111	HB3	ARG	2082	106.619	92.025	64.277	0.00	0.00
ATOM	31112	CG	ARG	2082	105.104	92.011	65.822	0.00	0.00
ATOM	31113	HG2	ARG	2082	105.083	91.660	66.854	0.00	0.00
ATOM	31114	HG3	ARG	2082	104.903	93.082	65.827	0.00	0.00
ATOM	31115	CD	ARG	2082	104.040	91.276	64.924	0.00	0.00



ATOM 31116 HD2 ARG 2082 103.876 91.842 64.007 0.00 0.00  
ATOM 31117 HD3 ARG 2082 104.431 90.286 64.691 0.00 0.00  
ATOM 31118 NE ARG 2082 102.774 91.158 65.638 0.00 0.00  
ATOM 31119 HE ARG 2082 102.677 91.533 66.571 0.00 0.00  
ATOM 31120 CZ ARG 2082 101.662 90.629 65.137 0.00 0.00  
ATOM 31121 NH1 ARG 2082 101.729 90.024 63.947 0.00 0.00  
ATOM 31122 1HH1 ARG 2082 100.898 89.607 63.553 0.00 0.00  
ATOM 31123 2HH1 ARG 2082 102.538 89.884 63.360 0.00 0.00  
ATOM 31124 NH2 ARG 2082 100.568 90.752 65.785 0.00 0.00  
ATOM 31125 1HH2 ARG 2082 99.696 90.366 65.452 0.00 0.00  
ATOM 31126 2HH2 ARG 2082 100.573 91.171 66.704 0.00 0.00  
ATOM 31127 C ARG 2082 107.358 93.268 67.304 0.00 0.00  
ATOM 31128 O ARG 2082 106.992 94.437 67.581 0.00 0.00  
ATOM 31129 N ILE 2083 107.643 92.407 68.300 0.00 0.00  
ATOM 31130 H ILE 2083 108.021 91.501 68.062 0.00 0.00  
ATOM 31131 CA ILE 2083 107.534 92.802 69.696 0.00 0.00  
ATOM 31132 HA ILE 2083 106.685 93.476 69.805 0.00 0.00  
ATOM 31133 CB ILE 2083 107.314 91.619 70.700 0.00 0.00  
ATOM 31134 HB ILE 2083 108.283 91.119 70.721 0.00 0.00  
ATOM 31135 CG2 ILE 2083 107.070 92.115 72.131 0.00 0.00  
ATOM 31136 1HG2 ILE 2083 106.409 91.455 72.692 0.00 0.00  
ATOM 31137 2HG2 ILE 2083 108.051 92.253 72.587 0.00 0.00  
ATOM 31138 3HG2 ILE 2083 106.623 93.105 72.038 0.00 0.00  
ATOM 31139 CG1 ILE 2083 106.289 90.651 70.212 0.00 0.00  
ATOM 31140 2HG1 ILE 2083 106.731 90.089 69.389 0.00 0.00  
ATOM 31141 3HG1 ILE 2083 106.096 89.829 70.901 0.00 0.00

ATOM	31142	CD1	ILE	2083	104.838	91.149	69.878	0.00	0.00
ATOM	31143	1HD1	ILE	2083	104.294	90.325	69.416	0.00	0.00
ATOM	31144	2HD1	ILE	2083	104.358	91.478	70.800	0.00	0.00
ATOM	31145	3HD1	ILE	2083	104.879	91.965	69.157	0.00	0.00
ATOM	31146	C	ILE	2083	108.830	93.577	70.114	0.00	0.00
ATOM	31147	O	ILE	2083	109.924	93.224	69.667	0.00	0.00
ATOM	31148	N	ARG	2084	108.673	94.670	70.908	0.00	0.00
ATOM	31149	H	ARG	2084	107.729	94.989	71.073	0.00	0.00
ATOM	31150	CA	ARG	2084	109.702	95.323	71.798	0.00	0.00
ATOM	31151	HA	ARG	2084	110.646	94.786	71.706	0.00	0.00
ATOM	31152	CB	ARG	2084	109.970	96.796	71.346	0.00	0.00
ATOM	31153	HB2	ARG	2084	109.000	97.285	71.256	0.00	0.00
ATOM	31154	HB3	ARG	2084	110.521	97.240	72.175	0.00	0.00
ATOM	31155	CG	ARG	2084	110.870	97.069	70.114	0.00	0.00
ATOM	31156	HG2	ARG	2084	111.808	97.521	70.436	0.00	0.00
ATOM	31157	HG3	ARG	2084	111.049	96.088	69.675	0.00	0.00
ATOM	31158	CD	ARG	2084	110.337	97.922	69.034	0.00	0.00
ATOM	31159	HD2	ARG	2084	110.006	98.899	69.388	0.00	0.00
ATOM	31160	HD3	ARG	2084	111.128	98.036	68.293	0.00	0.00
ATOM	31161	NE	ARG	2084	109.111	97.405	68.432	0.00	0.00
ATOM	31162	HE	ARG	2084	109.248	96.510	67.985	0.00	0.00
ATOM	31163	CZ	ARG	2084	107.902	97.847	68.680	0.00	0.00
ATOM	31164	NH1	ARG	2084	107.680	98.949	69.270	0.00	0.00
ATOM	31165	1HH1	ARG	2084	106.812	99.060	69.774	0.00	0.00
ATOM	31166	2HH1	ARG	2084	108.477	99.505	69.544	0.00	0.00
ATOM	31167	NH2	ARG	2084	106.793	97.155	68.394	0.00	0.00

ATOM 31168 1HH2 ARG 2084 105.967 97.451 68.893 0.00 0.00  
ATOM 31169 2HH2 ARG 2084 106.793 96.236 67.975 0.00 0.00  
ATOM 31170 C ARG 2084 109.248 95.286 73.288 0.00 0.00  
ATOM 31171 O ARG 2084 108.412 96.143 73.707 0.00 0.00  
ATOM 31172 N ARG 2085 109.839 94.335 74.099 0.00 0.00  
ATOM 31173 H ARG 2085 110.491 93.706 73.654 0.00 0.00  
ATOM 31174 CA ARG 2085 109.272 93.888 75.437 0.00 0.00  
ATOM 31175 HA ARG 2085 108.272 93.545 75.168 0.00 0.00  
ATOM 31176 CB ARG 2085 110.112 92.681 76.016 0.00 0.00  
ATOM 31177 HB2 ARG 2085 109.597 92.290 76.894 0.00 0.00  
ATOM 31178 HB3 ARG 2085 110.080 91.935 75.222 0.00 0.00  
ATOM 31179 CG ARG 2085 111.613 93.039 76.272 0.00 0.00  
ATOM 31180 HG2 ARG 2085 112.002 93.674 75.477 0.00 0.00  
ATOM 31181 HG3 ARG 2085 111.710 93.688 77.143 0.00 0.00  
ATOM 31182 CD ARG 2085 112.445 91.813 76.572 0.00 0.00  
ATOM 31183 HD2 ARG 2085 112.373 91.118 75.734 0.00 0.00  
ATOM 31184 HD3 ARG 2085 113.478 92.156 76.624 0.00 0.00  
ATOM 31185 NE ARG 2085 112.158 91.237 77.905 0.00 0.00  
ATOM 31186 HE ARG 2085 111.636 90.373 77.943 0.00 0.00  
ATOM 31187 CZ ARG 2085 112.806 91.538 79.048 0.00 0.00  
ATOM 31188 NH1 ARG 2085 113.860 92.339 79.142 0.00 0.00  
ATOM 31189 1HH1 ARG 2085 114.118 92.615 80.079 0.00 0.00  
ATOM 31190 2HH1 ARG 2085 114.030 93.016 78.413 0.00 0.00  
ATOM 31191 NH2 ARG 2085 112.499 90.848 80.086 0.00 0.00  
ATOM 31192 1HH2 ARG 2085 113.235 90.991 80.763 0.00 0.00  
ATOM 31193 2HH2 ARG 2085 111.875 90.062 79.973 0.00 0.00

ATOM	31194	C	ARG	2085	109.178	94.888	76.614	0.00	0.00
ATOM	31195	O	ARG	2085	108.469	94.533	77.561	0.00	0.00
ATOM	31196	N	GLU	2086	109.895	96.013	76.526	0.00	0.00
ATOM	31197	H	GLU	2086	110.385	96.220	75.667	0.00	0.00
ATOM	31198	CA	GLU	2086	109.731	97.073	77.506	0.00	0.00
ATOM	31199	HA	GLU	2086	109.436	96.694	78.484	0.00	0.00
ATOM	31200	CB	GLU	2086	111.156	97.700	77.569	0.00	0.00
ATOM	31201	HB2	GLU	2086	111.532	97.856	76.558	0.00	0.00
ATOM	31202	HB3	GLU	2086	111.033	98.715	77.946	0.00	0.00
ATOM	31203	CG	GLU	2086	112.201	97.032	78.426	0.00	0.00
ATOM	31204	HG2	GLU	2086	111.773	96.701	79.372	0.00	0.00
ATOM	31205	HG3	GLU	2086	112.433	96.080	77.948	0.00	0.00
ATOM	31206	CD	GLU	2086	113.539	97.711	78.673	0.00	0.00
ATOM	31207	OE1	GLU	2086	114.497	97.391	77.918	0.00	0.00
ATOM	31208	OE2	GLU	2086	113.638	98.565	79.643	0.00	0.00
ATOM	31209	C	GLU	2086	108.803	98.238	77.035	0.00	0.00
ATOM	31210	O	GLU	2086	108.252	98.950	77.878	0.00	0.00
ATOM	31211	N	THR	2087	108.564	98.428	75.714	0.00	0.00
ATOM	31212	H	THR	2087	109.011	97.842	75.023	0.00	0.00
ATOM	31213	CA	THR	2087	107.680	99.529	75.139	0.00	0.00
ATOM	31214	HA	THR	2087	107.593	100.354	75.847	0.00	0.00
ATOM	31215	CB	THR	2087	108.242	100.082	73.850	0.00	0.00
ATOM	31216	HB	THR	2087	107.582	100.878	73.507	0.00	0.00
ATOM	31217	CG2	THR	2087	109.702	100.560	74.115	0.00	0.00
ATOM	31218	1HG2	THR	2087	110.455	99.778	74.012	0.00	0.00
ATOM	31219	2HG2	THR	2087	110.085	101.249	73.362	0.00	0.00

ATOM 31220 3HG2 THR 2087 109.794 101.026 75.096 0.00 0.00  
ATOM 31221 OG1 THR 2087 108.339 99.041 72.891 0.00 0.00  
ATOM 31222 HG1 THR 2087 107.498 99.025 72.429 0.00 0.00  
ATOM 31223 C THR 2087 106.188 99.093 75.022 0.00 0.00  
ATOM 31224 O THR 2087 105.301 99.966 74.987 0.00 0.00  
ATOM 31225 N ILE 2088 105.841 97.827 75.095 0.00 0.00  
ATOM 31226 H ILE 2088 106.510 97.079 74.987 0.00 0.00  
ATOM 31227 CA ILE 2088 104.490 97.379 75.449 0.00 0.00  
ATOM 31228 HA ILE 2088 103.843 97.701 74.633 0.00 0.00  
ATOM 31229 CB ILE 2088 104.344 95.826 75.460 0.00 0.00  
ATOM 31230 HB ILE 2088 103.325 95.668 75.814 0.00 0.00  
ATOM 31231 CG2 ILE 2088 104.527 95.137 74.115 0.00 0.00  
ATOM 31232 1HG2 ILE 2088 105.588 95.189 73.871 0.00 0.00  
ATOM 31233 2HG2 ILE 2088 104.115 94.128 74.109 0.00 0.00  
ATOM 31234 3HG2 ILE 2088 103.868 95.622 73.395 0.00 0.00  
ATOM 31235 CG1 ILE 2088 105.277 95.021 76.488 0.00 0.00  
ATOM 31236 2HG1 ILE 2088 106.317 95.104 76.171 0.00 0.00  
ATOM 31237 3HG1 ILE 2088 105.113 95.477 77.464 0.00 0.00  
ATOM 31238 CD1 ILE 2088 104.840 93.591 76.798 0.00 0.00  
ATOM 31239 1HD1 ILE 2088 104.935 92.905 75.956 0.00 0.00  
ATOM 31240 2HD1 ILE 2088 105.182 93.163 77.740 0.00 0.00  
ATOM 31241 3HD1 ILE 2088 103.754 93.668 76.853 0.00 0.00  
ATOM 31242 C ILE 2088 103.800 97.954 76.739 0.00 0.00  
ATOM 31243 O ILE 2088 102.590 97.965 76.867 0.00 0.00  
ATOM 31244 N ALA 2089 104.653 98.497 77.603 0.00 0.00  
ATOM 31245 H ALA 2089 105.633 98.295 77.461 0.00 0.00

ATOM	31246	CA	ALA	2089	104.205	99.175	78.820	0.00	0.00
ATOM	31247	HA	ALA	2089	103.453	98.603	79.362	0.00	0.00
ATOM	31248	CB	ALA	2089	105.455	99.408	79.771	0.00	0.00
ATOM	31249	HB1	ALA	2089	105.181	99.944	80.680	0.00	0.00
ATOM	31250	HB2	ALA	2089	105.875	98.422	79.970	0.00	0.00
ATOM	31251	HB3	ALA	2089	106.204	99.967	79.210	0.00	0.00
ATOM	31252	C	ALA	2089	103.667	100.567	78.530	0.00	0.00
ATOM	31253	O	ALA	2089	103.014	101.058	79.410	0.00	0.00
ATOM	31254	N	ALA	2090	103.876	101.220	77.380	0.00	0.00
ATOM	31255	H	ALA	2090	104.401	100.711	76.683	0.00	0.00
ATOM	31256	CA	ALA	2090	103.358	102.524	77.066	0.00	0.00
ATOM	31257	HA	ALA	2090	103.680	103.235	77.827	0.00	0.00
ATOM	31258	CB	ALA	2090	104.046	102.935	75.790	0.00	0.00
ATOM	31259	HB1	ALA	2090	103.660	102.364	74.946	0.00	0.00
ATOM	31260	HB2	ALA	2090	103.988	104.003	75.580	0.00	0.00
ATOM	31261	HB3	ALA	2090	105.083	102.599	75.796	0.00	0.00
ATOM	31262	C	ALA	2090	101.809	102.484	76.892	0.00	0.00
ATOM	31263	O	ALA	2090	101.180	103.407	77.298	0.00	0.00
ATOM	31264	N	GLU	2091	101.283	101.464	76.236	0.00	0.00
ATOM	31265	H	GLU	2091	101.905	100.811	75.782	0.00	0.00
ATOM	31266	CA	GLU	2091	99.880	101.294	75.992	0.00	0.00
ATOM	31267	HA	GLU	2091	99.525	102.057	75.298	0.00	0.00
ATOM	31268	CB	GLU	2091	99.669	99.815	75.426	0.00	0.00
ATOM	31269	HB2	GLU	2091	99.868	99.060	76.187	0.00	0.00
ATOM	31270	HB3	GLU	2091	98.604	99.885	75.205	0.00	0.00
ATOM	31271	CG	GLU	2091	100.520	99.667	74.156	0.00	0.00

ATOM	31272	HG2	GLU	2091	100.610	100.658	73.712	0.00	0.00
ATOM	31273	HG3	GLU	2091	101.544	99.376	74.391	0.00	0.00
ATOM	31274	CD	GLU	2091	99.804	98.692	73.229	0.00	0.00
ATOM	31275	OE1	GLU	2091	99.419	98.984	72.097	0.00	0.00
ATOM	31276	OE2	GLU	2091	99.434	97.599	73.773	0.00	0.00
ATOM	31277	C	GLU	2091	99.192	101.386	77.325	0.00	0.00
ATOM	31278	O	GLU	2091	98.335	102.219	77.604	0.00	0.00
ATOM	31279	N	ASP	2092	99.693	100.666	78.333	0.00	0.00
ATOM	31280	H	ASP	2092	100.396	99.969	78.131	0.00	0.00
ATOM	31281	CA	ASP	2092	99.151	100.517	79.687	0.00	0.00
ATOM	31282	HA	ASP	2092	98.106	100.232	79.560	0.00	0.00
ATOM	31283	CB	ASP	2092	99.861	99.286	80.264	0.00	0.00
ATOM	31284	HB2	ASP	2092	99.419	98.386	79.835	0.00	0.00
ATOM	31285	HB3	ASP	2092	100.867	99.314	79.846	0.00	0.00
ATOM	31286	CG	ASP	2092	99.941	99.102	81.808	0.00	0.00
ATOM	31287	OD1	ASP	2092	99.122	98.364	82.370	0.00	0.00
ATOM	31288	OD2	ASP	2092	100.967	99.423	82.500	0.00	0.00
ATOM	31289	C	ASP	2092	99.243	101.819	80.619	0.00	0.00
ATOM	31290	O	ASP	2092	98.805	101.864	81.767	0.00	0.00
ATOM	31291	N	VAL	2093	99.551	102.979	80.048	0.00	0.00
ATOM	31292	H	VAL	2093	99.978	102.947	79.134	0.00	0.00
ATOM	31293	CA	VAL	2093	99.502	104.310	80.707	0.00	0.00
ATOM	31294	HA	VAL	2093	98.820	104.348	81.557	0.00	0.00
ATOM	31295	CB	VAL	2093	100.920	104.641	81.288	0.00	0.00
ATOM	31296	HB	VAL	2093	101.130	103.969	82.120	0.00	0.00
ATOM	31297	CG1	VAL	2093	102.060	104.499	80.227	0.00	0.00

ATOM 31298	1HG1	VAL	2093	102.956	104.744	80.798	0.00	0.00
ATOM 31299	2HG1	VAL	2093	102.066	103.500	79.791	0.00	0.00
ATOM 31300	3HG1	VAL	2093	102.093	105.277	79.465	0.00	0.00
ATOM 31301	CG2	VAL	2093	101.014	105.999	81.877	0.00	0.00
ATOM 31302	1HG2	VAL	2093	100.092	106.157	82.437	0.00	0.00
ATOM 31303	2HG2	VAL	2093	101.827	106.075	82.598	0.00	0.00
ATOM 31304	3HG2	VAL	2093	101.050	106.826	81.167	0.00	0.00
ATOM 31305	C	VAL	2093	99.009	105.389	79.773	0.00	0.00
ATOM 31306	O	VAL	2093	98.339	106.291	80.165	0.00	0.00
ATOM 31307	N	LEU	2094	99.220	105.197	78.452	0.00	0.00
ATOM 31308	H	LEU	2094	99.804	104.403	78.230	0.00	0.00
ATOM 31309	CA	LEU	2094	98.639	105.980	77.377	0.00	0.00
ATOM 31310	HA	LEU	2094	98.792	107.013	77.691	0.00	0.00
ATOM 31311	CB	LEU	2094	99.183	105.648	75.983	0.00	0.00
ATOM 31312	HB2	LEU	2094	99.320	104.567	75.961	0.00	0.00
ATOM 31313	HB3	LEU	2094	98.485	105.970	75.210	0.00	0.00
ATOM 31314	CG	LEU	2094	100.644	106.206	75.751	0.00	0.00
ATOM 31315	HG	LEU	2094	101.211	105.913	76.635	0.00	0.00
ATOM 31316	CD1	LEU	2094	101.350	105.651	74.458	0.00	0.00
ATOM 31317	1HD1	LEU	2094	102.424	105.740	74.626	0.00	0.00
ATOM 31318	2HD1	LEU	2094	100.989	104.625	74.395	0.00	0.00
ATOM 31319	3HD1	LEU	2094	101.005	106.143	73.549	0.00	0.00
ATOM 31320	CD2	LEU	2094	100.711	107.705	75.729	0.00	0.00
ATOM 31321	1HD2	LEU	2094	100.326	108.054	76.687	0.00	0.00
ATOM 31322	2HD2	LEU	2094	101.752	108.008	75.616	0.00	0.00
ATOM 31323	3HD2	LEU	2094	100.175	108.199	74.918	0.00	0.00



ATOM	31324	C	LEU	2094	97.058	105.869	77.397	0.00	0.00
ATOM	31325	O	LEU	2094	96.493	106.903	76.994	0.00	0.00
ATOM	31326	N	HIE	2095	96.429	104.763	77.868	0.00	0.00
ATOM	31327	H	HIE	2095	97.041	103.994	78.103	0.00	0.00
ATOM	31328	CA	HIE	2095	94.974	104.682	78.252	0.00	0.00
ATOM	31329	HA	HIE	2095	94.361	104.888	77.375	0.00	0.00
ATOM	31330	CB	HIE	2095	94.756	103.264	78.772	0.00	0.00
ATOM	31331	HB2	HIE	2095	95.685	102.974	79.263	0.00	0.00
ATOM	31332	HB3	HIE	2095	93.992	103.356	79.544	0.00	0.00
ATOM	31333	CG	HIE	2095	94.255	102.271	77.736	0.00	0.00
ATOM	31334	ND1	HIE	2095	93.380	102.547	76.630	0.00	0.00
ATOM	31335	CE1	HIE	2095	93.172	101.388	76.007	0.00	0.00
ATOM	31336	HE1	HIE	2095	92.590	101.235	75.110	0.00	0.00
ATOM	31337	NE2	HIE	2095	93.891	100.433	76.604	0.00	0.00
ATOM	31338	HE2	HIE	2095	93.927	99.494	76.233	0.00	0.00
ATOM	31339	CD2	HIE	2095	94.550	100.965	77.730	0.00	0.00
ATOM	31340	HD2	HIE	2095	95.207	100.392	78.368	0.00	0.00
ATOM	31341	C	HIE	2095	94.584	105.701	79.358	0.00	0.00
ATOM	31342	O	HIE	2095	93.541	106.348	79.246	0.00	0.00
ATOM	31343	N	ASP	2096	95.452	105.934	80.352	0.00	0.00
ATOM	31344	H	ASP	2096	96.358	105.489	80.363	0.00	0.00
ATOM	31345	CA	ASP	2096	95.190	106.887	81.392	0.00	0.00
ATOM	31346	HA	ASP	2096	94.123	106.943	81.609	0.00	0.00
ATOM	31347	CB	ASP	2096	96.047	106.387	82.620	0.00	0.00
ATOM	31348	HB2	ASP	2096	97.098	106.654	82.722	0.00	0.00
ATOM	31349	HB3	ASP	2096	96.030	105.307	82.475	0.00	0.00

ATOM 31350	CG	ASP	2096	95.373	106.763	83.951	0.00	0.00
ATOM 31351	OD1	ASP	2096	94.441	106.111	84.331	0.00	0.00
ATOM 31352	OD2	ASP	2096	95.840	107.751	84.570	0.00	0.00
ATOM 31353	C	ASP	2096	95.442	108.326	81.021	0.00	0.00
ATOM 31354	O	ASP	2096	94.852	109.240	81.642	0.00	0.00
ATOM 31355	N	LEU	2097	96.325	108.555	80.101	0.00	0.00
ATOM 31356	H	LEU	2097	96.850	107.751	79.788	0.00	0.00
ATOM 31357	CA	LEU	2097	96.608	109.775	79.417	0.00	0.00
ATOM 31358	HA	LEU	2097	96.618	110.551	80.182	0.00	0.00
ATOM 31359	CB	LEU	2097	97.997	109.793	78.747	0.00	0.00
ATOM 31360	HB2	LEU	2097	98.251	108.734	78.700	0.00	0.00
ATOM 31361	HB3	LEU	2097	97.871	110.047	77.695	0.00	0.00
ATOM 31362	CG	LEU	2097	99.161	110.503	79.405	0.00	0.00
ATOM 31363	HG	LEU	2097	98.663	111.315	79.935	0.00	0.00
ATOM 31364	CD1	LEU	2097	99.662	109.577	80.520	0.00	0.00
ATOM 31365	1HD1	LEU	2097	100.456	110.109	81.043	0.00	0.00
ATOM 31366	2HD1	LEU	2097	98.871	109.479	81.263	0.00	0.00
ATOM 31367	3HD1	LEU	2097	100.055	108.595	80.257	0.00	0.00
ATOM 31368	CD2	LEU	2097	100.312	110.879	78.543	0.00	0.00
ATOM 31369	1HD2	LEU	2097	100.038	111.713	77.898	0.00	0.00
ATOM 31370	2HD2	LEU	2097	101.064	111.336	79.187	0.00	0.00
ATOM 31371	3HD2	LEU	2097	100.863	110.104	78.010	0.00	0.00
ATOM 31372	C	LEU	2097	95.413	110.176	78.465	0.00	0.00
ATOM 31373	O	LEU	2097	95.365	111.308	78.078	0.00	0.00
ATOM 31374	N	GLY	2098	94.409	109.306	78.264	0.00	0.00
ATOM 31375	H	GLY	2098	94.344	108.448	78.793	0.00	0.00

ATOM 31376	CA	GLY	2098	93.304	109.493	77.286	0.00	0.00
ATOM 31377	HA2	GLY	2098	92.585	108.683	77.410	0.00	0.00
ATOM 31378	HA3	GLY	2098	92.662	110.343	77.520	0.00	0.00
ATOM 31379	C	GLY	2098	93.906	109.666	75.849	0.00	0.00
ATOM 31380	O	GLY	2098	93.474	110.495	75.082	0.00	0.00
ATOM 31381	N	ALA	2099	94.918	108.870	75.536	0.00	0.00
ATOM 31382	H	ALA	2099	95.386	108.388	76.290	0.00	0.00
ATOM 31383	CA	ALA	2099	95.731	109.099	74.349	0.00	0.00
ATOM 31384	HA	ALA	2099	95.476	109.974	73.750	0.00	0.00
ATOM 31385	CB	ALA	2099	97.271	109.166	74.719	0.00	0.00
ATOM 31386	HB1	ALA	2099	97.530	108.304	75.335	0.00	0.00
ATOM 31387	HB2	ALA	2099	97.956	109.167	73.871	0.00	0.00
ATOM 31388	HB3	ALA	2099	97.347	110.073	75.318	0.00	0.00
ATOM 31389	C	ALA	2099	95.437	107.980	73.409	0.00	0.00
ATOM 31390	O	ALA	2099	95.341	108.173	72.192	0.00	0.00
ATOM 31391	N	PHE	2100	95.351	106.769	73.943	0.00	0.00
ATOM 31392	H	PHE	2100	95.854	106.671	74.814	0.00	0.00
ATOM 31393	CA	PHE	2100	94.677	105.544	73.424	0.00	0.00
ATOM 31394	HA	PHE	2100	94.702	105.605	72.336	0.00	0.00
ATOM 31395	CB	PHE	2100	95.509	104.325	73.756	0.00	0.00
ATOM 31396	HB2	PHE	2100	95.792	104.291	74.808	0.00	0.00
ATOM 31397	HB3	PHE	2100	94.918	103.423	73.602	0.00	0.00
ATOM 31398	CG	PHE	2100	96.873	104.031	73.080	0.00	0.00
ATOM 31399	CD1	PHE	2100	97.566	104.841	72.156	0.00	0.00
ATOM 31400	HD1	PHE	2100	97.273	105.858	71.940	0.00	0.00
ATOM 31401	CE1	PHE	2100	98.728	104.313	71.586	0.00	0.00

ATOM	31402	HE1	PHE	2100	99.335	104.937	70.947	0.00	0.00
ATOM	31403	CZ	PHE	2100	99.200	103.041	71.866	0.00	0.00
ATOM	31404	HZ	PHE	2100	99.915	102.569	71.209	0.00	0.00
ATOM	31405	CE2	PHE	2100	98.601	102.259	72.804	0.00	0.00
ATOM	31406	HE2	PHE	2100	98.751	101.189	72.796	0.00	0.00
ATOM	31407	CD2	PHE	2100	97.417	102.730	73.415	0.00	0.00
ATOM	31408	HD2	PHE	2100	96.821	102.125	74.083	0.00	0.00
ATOM	31409	C	PHE	2100	93.205	105.515	73.868	0.00	0.00
ATOM	31410	O	PHE	2100	92.897	105.612	75.035	0.00	0.00
ATOM	31411	N	SER	2101	92.342	105.452	72.838	0.00	0.00
ATOM	31412	H	SER	2101	92.772	105.421	71.925	0.00	0.00
ATOM	31413	CA	SER	2101	90.907	105.826	72.932	0.00	0.00
ATOM	31414	HA	SER	2101	90.827	106.382	73.866	0.00	0.00
ATOM	31415	CB	SER	2101	90.736	106.747	71.742	0.00	0.00
ATOM	31416	HB2	SER	2101	90.890	106.212	70.805	0.00	0.00
ATOM	31417	HB3	SER	2101	89.830	107.351	71.783	0.00	0.00
ATOM	31418	OG	SER	2101	91.731	107.728	71.769	0.00	0.00
ATOM	31419	HG	SER	2101	91.372	108.507	72.198	0.00	0.00
ATOM	31420	C	SER	2101	89.984	104.673	72.855	0.00	0.00
ATOM	31421	O	SER	2101	88.755	104.845	72.904	0.00	0.00
ATOM	31422	N	LEU	2102	90.546	103.438	72.741	0.00	0.00
ATOM	31423	H	LEU	2102	91.543	103.402	72.583	0.00	0.00
ATOM	31424	CA	LEU	2102	89.712	102.278	72.194	0.00	0.00
ATOM	31425	HA	LEU	2102	88.677	102.339	72.531	0.00	0.00
ATOM	31426	CB	LEU	2102	89.766	102.296	70.678	0.00	0.00
ATOM	31427	HB2	LEU	2102	90.833	102.305	70.456	0.00	0.00

ATOM 31428	HB3	LEU	2102	89.380	101.323	70.374	0.00	0.00
ATOM 31429	CG	LEU	2102	89.037	103.465	69.928	0.00	0.00
ATOM 31430	HG	LEU	2102	89.237	104.448	70.353	0.00	0.00
ATOM 31431	CD1	LEU	2102	89.471	103.566	68.476	0.00	0.00
ATOM 31432	1HD1	LEU	2102	89.158	104.524	68.062	0.00	0.00
ATOM 31433	2HD1	LEU	2102	90.550	103.495	68.340	0.00	0.00
ATOM 31434	3HD1	LEU	2102	89.078	102.669	67.997	0.00	0.00
ATOM 31435	CD2	LEU	2102	87.569	103.299	70.143	0.00	0.00
ATOM 31436	1HD2	LEU	2102	87.476	103.446	71.219	0.00	0.00
ATOM 31437	2HD2	LEU	2102	87.018	104.102	69.653	0.00	0.00
ATOM 31438	3HD2	LEU	2102	87.116	102.353	69.846	0.00	0.00
ATOM 31439	C	LEU	2102	90.180	100.937	72.703	0.00	0.00
ATOM 31440	O	LEU	2102	91.394	100.678	72.788	0.00	0.00
ATOM 31441	N	THR	2103	89.279	99.998	73.002	0.00	0.00
ATOM 31442	H	THR	2103	88.297	100.221	72.918	0.00	0.00
ATOM 31443	CA	THR	2103	89.708	98.578	73.118	0.00	0.00
ATOM 31444	HA	THR	2103	90.574	98.555	73.779	0.00	0.00
ATOM 31445	CB	THR	2103	88.571	97.751	73.694	0.00	0.00
ATOM 31446	HB	THR	2103	88.875	96.747	73.398	0.00	0.00
ATOM 31447	CG2	THR	2103	88.503	97.836	75.220	0.00	0.00
ATOM 31448	1HG2	THR	2103	89.464	97.456	75.565	0.00	0.00
ATOM 31449	2HG2	THR	2103	88.487	98.889	75.500	0.00	0.00
ATOM 31450	3HG2	THR	2103	87.631	97.292	75.584	0.00	0.00
ATOM 31451	OG1	THR	2103	87.275	98.017	73.109	0.00	0.00
ATOM 31452	HG1	THR	2103	87.015	97.219	72.644	0.00	0.00
ATOM 31453	C	THR	2103	90.089	97.966	71.697	0.00	0.00

ATOM	31454	O	THR	2103	89.791	98.557	70.653	0.00	0.00
ATOM	31455	N	SER	2104	90.813	96.860	71.637	0.00	0.00
ATOM	31456	H	SER	2104	91.398	96.639	72.430	0.00	0.00
ATOM	31457	CA	SER	2104	90.723	95.829	70.552	0.00	0.00
ATOM	31458	HA	SER	2104	89.757	95.970	70.067	0.00	0.00
ATOM	31459	CB	SER	2104	91.820	96.000	69.559	0.00	0.00
ATOM	31460	HB2	SER	2104	92.742	96.178	70.113	0.00	0.00
ATOM	31461	HB3	SER	2104	92.054	95.098	68.993	0.00	0.00
ATOM	31462	OG	SER	2104	91.577	97.091	68.716	0.00	0.00
ATOM	31463	HG	SER	2104	90.629	97.239	68.672	0.00	0.00
ATOM	31464	C	SER	2104	90.812	94.475	71.307	0.00	0.00
ATOM	31465	O	SER	2104	91.647	94.235	72.156	0.00	0.00
ATOM	31466	N	SER	2105	89.989	93.478	70.860	0.00	0.00
ATOM	31467	H	SER	2105	89.180	93.780	70.335	0.00	0.00
ATOM	31468	CA	SER	2105	89.875	92.123	71.343	0.00	0.00
ATOM	31469	HA	SER	2105	90.126	92.127	72.404	0.00	0.00
ATOM	31470	CB	SER	2105	88.439	91.467	71.140	0.00	0.00
ATOM	31471	HB2	SER	2105	88.587	90.427	71.431	0.00	0.00
ATOM	31472	HB3	SER	2105	87.715	92.089	71.666	0.00	0.00
ATOM	31473	OG	SER	2105	88.073	91.559	69.802	0.00	0.00
ATOM	31474	HG	SER	2105	87.865	92.478	69.617	0.00	0.00
ATOM	31475	C	SER	2105	90.964	91.232	70.780	0.00	0.00
ATOM	31476	O	SER	2105	91.683	90.549	71.456	0.00	0.00
ATOM	31477	N	A21	2106	91.192	91.356	69.451	0.00	0.00
ATOM	31478	H	A21	2106	90.513	91.857	68.896	0.00	0.00
ATOM	31479	CA	A21	2106	92.123	90.570	68.674	0.00	0.00

ATOM 31480	HA	A21	2106	91.912	90.726	67.616	0.00	0.00
ATOM 31481	CB	A21	2106	93.532	91.070	68.987	0.00	0.00
ATOM 31482	HB2	A21	2106	93.524	91.999	69.557	0.00	0.00
ATOM 31483	HB3	A21	2106	94.060	90.469	69.728	0.00	0.00
ATOM 31484	CG	A21	2106	94.329	91.307	67.650	0.00	0.00
ATOM 31485	OD1	A21	2106	94.039	90.687	66.607	0.00	0.00
ATOM 31486	OD2	A21	2106	95.271	92.132	67.737	0.00	0.00
ATOM 31487	C	A21	2106	91.886	89.042	68.877	0.00	0.00
ATOM 31488	O	A21	2106	92.741	88.202	68.781	0.00	0.00
ATOM 31489	N	SER	2107	90.652	88.606	69.097	0.00	0.00
ATOM 31490	H	SER	2107	89.869	89.229	68.966	0.00	0.00
ATOM 31491	CA	SER	2107	90.232	87.277	69.537	0.00	0.00
ATOM 31492	HA	SER	2107	90.576	87.118	70.559	0.00	0.00
ATOM 31493	CB	SER	2107	88.688	87.294	69.705	0.00	0.00
ATOM 31494	HB2	SER	2107	88.353	86.276	69.906	0.00	0.00
ATOM 31495	HB3	SER	2107	88.501	87.865	70.614	0.00	0.00
ATOM 31496	OG	SER	2107	87.933	87.809	68.597	0.00	0.00
ATOM 31497	HG	SER	2107	87.010	87.551	68.654	0.00	0.00
ATOM 31498	C	SER	2107	90.755	86.090	68.652	0.00	0.00
ATOM 31499	O	SER	2107	90.600	85.995	67.394	0.00	0.00
ATOM 31500	N	GLN	2108	91.373	85.136	69.379	0.00	0.00
ATOM 31501	H	GLN	2108	91.610	85.485	70.297	0.00	0.00
ATOM 31502	CA	GLN	2108	91.995	83.947	68.801	0.00	0.00
ATOM 31503	HA	GLN	2108	92.506	83.516	69.662	0.00	0.00
ATOM 31504	CB	GLN	2108	91.007	82.805	68.365	0.00	0.00
ATOM 31505	HB2	GLN	2108	90.242	83.376	67.839	0.00	0.00

ATOM 31506	HB3	GLN	2108	91.509	82.086	67.717	0.00	0.00
ATOM 31507	CG	GLN	2108	90.264	82.124	69.553	0.00	0.00
ATOM 31508	HG2	GLN	2108	91.001	81.772	70.276	0.00	0.00
ATOM 31509	HG3	GLN	2108	89.688	82.894	70.067	0.00	0.00
ATOM 31510	CD	GLN	2108	89.228	81.040	69.215	0.00	0.00
ATOM 31511	OE1	GLN	2108	88.327	81.222	68.367	0.00	0.00
ATOM 31512	NE2	GLN	2108	89.246	79.851	69.834	0.00	0.00
ATOM 31513	1HE2	GLN	2108	88.439	79.244	69.793	0.00	0.00
ATOM 31514	2HE2	GLN	2108	89.857	79.621	70.605	0.00	0.00
ATOM 31515	C	GLN	2108	93.057	84.241	67.713	0.00	0.00
ATOM 31516	O	GLN	2108	93.508	83.312	67.047	0.00	0.00
ATOM 31517	N	ALA	2109	93.499	85.515	67.532	0.00	0.00
ATOM 31518	H	ALA	2109	93.014	86.223	68.064	0.00	0.00
ATOM 31519	CA	ALA	2109	94.390	86.010	66.511	0.00	0.00
ATOM 31520	HA	ALA	2109	94.703	85.229	65.819	0.00	0.00
ATOM 31521	CB	ALA	2109	93.572	86.977	65.643	0.00	0.00
ATOM 31522	HB1	ALA	2109	94.172	87.428	64.853	0.00	0.00
ATOM 31523	HB2	ALA	2109	92.701	86.484	65.209	0.00	0.00
ATOM 31524	HB3	ALA	2109	93.105	87.830	66.135	0.00	0.00
ATOM 31525	C	ALA	2109	95.718	86.593	67.165	0.00	0.00
ATOM 31526	O	ALA	2109	96.797	86.250	66.744	0.00	0.00
ATOM 31527	N	MET	2110	95.538	87.381	68.221	0.00	0.00
ATOM 31528	H	MET	2110	94.567	87.505	68.468	0.00	0.00
ATOM 31529	CA	MET	2110	96.639	87.869	69.062	0.00	0.00
ATOM 31530	HA	MET	2110	97.164	86.949	69.316	0.00	0.00
ATOM 31531	CB	MET	2110	97.594	88.752	68.213	0.00	0.00



ATOM 31532 HB2 MET 2110 97.905 88.309 67.267 0.00 0.00  
ATOM 31533 HB3 MET 2110 97.270 89.776 68.028 0.00 0.00  
ATOM 31534 CG MET 2110 98.949 88.995 68.874 0.00 0.00  
ATOM 31535 HG2 MET 2110 98.727 88.846 69.931 0.00 0.00  
ATOM 31536 HG3 MET 2110 99.627 88.177 68.630 0.00 0.00  
ATOM 31537 SD MET 2110 99.829 90.616 68.674 0.00 0.00  
ATOM 31538 CE MET 2110 100.562 90.812 70.354 0.00 0.00  
ATOM 31539 HE1 MET 2110 101.109 89.906 70.616 0.00 0.00  
ATOM 31540 HE2 MET 2110 101.124 91.744 70.416 0.00 0.00  
ATOM 31541 HE3 MET 2110 99.706 90.950 71.014 0.00 0.00  
ATOM 31542 C MET 2110 96.039 88.664 70.252 0.00 0.00  
ATOM 31543 O MET 2110 96.388 89.819 70.506 0.00 0.00  
TER 0 0  
ATOM 31544 N GLY 2111 95.062 88.098 70.881 0.00 0.00  
ATOM 31545 H GLY 2111 94.717 87.196 70.585 0.00 0.00  
ATOM 31546 CA GLY 2111 94.281 88.674 71.968 0.00 0.00  
ATOM 31547 HA2 GLY 2111 94.893 88.803 72.861 0.00 0.00  
ATOM 31548 HA3 GLY 2111 93.915 89.670 71.716 0.00 0.00  
ATOM 31549 C GLY 2111 92.995 87.860 72.331 0.00 0.00  
ATOM 31550 O GLY 2111 92.640 86.891 71.601 0.00 0.00  
ATOM 31551 N ARG 2112 92.350 88.262 73.453 0.00 0.00  
ATOM 31552 H ARG 2112 92.835 89.013 73.924 0.00 0.00  
ATOM 31553 CA ARG 2112 91.346 87.528 74.302 0.00 0.00  
ATOM 31554 HA ARG 2112 91.179 86.528 73.902 0.00 0.00  
ATOM 31555 CB ARG 2112 91.967 87.342 75.688 0.00 0.00  
ATOM 31556 HB2 ARG 2112 92.156 88.297 76.178 0.00 0.00

ATOM	31557	HB3	ARG	2112	91.338	86.694	76.299	0.00	0.00
ATOM	31558	CG	ARG	2112	93.297	86.572	75.578	0.00	0.00
ATOM	31559	HG2	ARG	2112	93.227	85.642	75.015	0.00	0.00
ATOM	31560	HG3	ARG	2112	94.015	87.201	75.051	0.00	0.00
ATOM	31561	CD	ARG	2112	93.930	86.293	76.972	0.00	0.00
ATOM	31562	HD2	ARG	2112	94.275	87.266	77.324	0.00	0.00
ATOM	31563	HD3	ARG	2112	93.214	85.957	77.721	0.00	0.00
ATOM	31564	NE	ARG	2112	95.029	85.256	76.837	0.00	0.00
ATOM	31565	HE	ARG	2112	94.761	84.282	76.820	0.00	0.00
ATOM	31566	CZ	ARG	2112	96.316	85.531	76.758	0.00	0.00
ATOM	31567	NH1	ARG	2112	96.725	86.695	77.154	0.00	0.00
ATOM	31568	1HH1	ARG	2112	97.714	86.892	77.199	0.00	0.00
ATOM	31569	2HH1	ARG	2112	96.033	87.232	77.658	0.00	0.00
ATOM	31570	NH2	ARG	2112	97.168	84.607	76.323	0.00	0.00
ATOM	31571	1HH2	ARG	2112	98.141	84.847	76.440	0.00	0.00
ATOM	31572	2HH2	ARG	2112	96.803	83.738	75.960	0.00	0.00
ATOM	31573	C	ARG	2112	89.978	88.184	74.504	0.00	0.00
ATOM	31574	O	ARG	2112	89.830	89.043	75.326	0.00	0.00
ATOM	31575	N	VAL	2113	89.014	87.625	73.768	0.00	0.00
ATOM	31576	H	VAL	2113	89.254	86.890	73.117	0.00	0.00
ATOM	31577	CA	VAL	2113	87.579	88.099	73.816	0.00	0.00
ATOM	31578	HA	VAL	2113	87.788	89.096	73.430	0.00	0.00
ATOM	31579	CB	VAL	2113	86.564	87.379	72.888	0.00	0.00
ATOM	31580	HB	VAL	2113	86.960	87.429	71.874	0.00	0.00
ATOM	31581	CG1	VAL	2113	86.431	85.816	73.249	0.00	0.00
ATOM	31582	1HG1	VAL	2113	86.029	85.297	72.379	0.00	0.00

ATOM 31583	2HG1	VAL	2113	87.429	85.495	73.548	0.00	0.00
ATOM 31584	3HG1	VAL	2113	85.680	85.703	74.031	0.00	0.00
ATOM 31585	CG2	VAL	2113	85.144	88.028	72.877	0.00	0.00
ATOM 31586	1HG2	VAL	2113	84.624	87.649	71.997	0.00	0.00
ATOM 31587	2HG2	VAL	2113	84.669	87.822	73.837	0.00	0.00
ATOM 31588	3HG2	VAL	2113	85.099	89.117	72.880	0.00	0.00
ATOM 31589	C	VAL	2113	87.033	88.374	75.171	0.00	0.00
ATOM 31590	O	VAL	2113	86.747	89.540	75.518	0.00	0.00
ATOM 31591	N	GLY	2114	86.882	87.336	76.027	0.00	0.00
ATOM 31592	H	GLY	2114	87.142	86.407	75.727	0.00	0.00
ATOM 31593	CA	GLY	2114	86.146	87.658	77.267	0.00	0.00
ATOM 31594	HA2	GLY	2114	85.121	87.980	77.080	0.00	0.00
ATOM 31595	HA3	GLY	2114	86.005	86.676	77.719	0.00	0.00
ATOM 31596	C	GLY	2114	86.810	88.513	78.386	0.00	0.00
ATOM 31597	O	GLY	2114	86.212	88.738	79.468	0.00	0.00
ATOM 31598	N	GLU	2115	88.092	88.841	78.240	0.00	0.00
ATOM 31599	H	GLU	2115	88.450	88.663	77.313	0.00	0.00
ATOM 31600	CA	GLU	2115	89.040	89.608	79.088	0.00	0.00
ATOM 31601	HA	GLU	2115	88.533	89.830	80.028	0.00	0.00
ATOM 31602	CB	GLU	2115	90.343	88.839	79.311	0.00	0.00
ATOM 31603	HB2	GLU	2115	90.653	88.614	78.290	0.00	0.00
ATOM 31604	HB3	GLU	2115	91.187	89.481	79.564	0.00	0.00
ATOM 31605	CG	GLU	2115	90.186	87.624	80.275	0.00	0.00
ATOM 31606	HG2	GLU	2115	89.890	87.979	81.263	0.00	0.00
ATOM 31607	HG3	GLU	2115	89.491	86.864	79.919	0.00	0.00
ATOM 31608	CD	GLU	2115	91.528	86.924	80.492	0.00	0.00

ATOM	31609	OE1	GLU	2115	91.409	85.825	81.071	0.00	0.00
ATOM	31610	OE2	GLU	2115	92.670	87.372	80.060	0.00	0.00
ATOM	31611	C	GLU	2115	89.316	91.006	78.518	0.00	0.00
ATOM	31612	O	GLU	2115	89.808	91.877	79.216	0.00	0.00
ATOM	31613	N	VAL	2116	88.840	91.374	77.228	0.00	0.00
ATOM	31614	H	VAL	2116	88.160	90.832	76.715	0.00	0.00
ATOM	31615	CA	VAL	2116	89.163	92.678	76.685	0.00	0.00
ATOM	31616	HA	VAL	2116	90.245	92.678	76.560	0.00	0.00
ATOM	31617	CB	VAL	2116	88.625	92.800	75.252	0.00	0.00
ATOM	31618	HB	VAL	2116	89.113	91.984	74.719	0.00	0.00
ATOM	31619	CG1	VAL	2116	87.075	92.742	75.124	0.00	0.00
ATOM	31620	1HG1	VAL	2116	86.508	91.978	75.656	0.00	0.00
ATOM	31621	2HG1	VAL	2116	86.824	93.704	75.571	0.00	0.00
ATOM	31622	3HG1	VAL	2116	86.717	92.782	74.095	0.00	0.00
ATOM	31623	CG2	VAL	2116	89.115	94.044	74.506	0.00	0.00
ATOM	31624	1HG2	VAL	2116	88.935	93.812	73.457	0.00	0.00
ATOM	31625	2HG2	VAL	2116	88.683	94.986	74.843	0.00	0.00
ATOM	31626	3HG2	VAL	2116	90.187	94.069	74.701	0.00	0.00
ATOM	31627	C	VAL	2116	88.868	93.929	77.507	0.00	0.00
ATOM	31628	O	VAL	2116	89.672	94.837	77.496	0.00	0.00
ATOM	31629	N	ILE	2117	87.784	93.910	78.248	0.00	0.00
ATOM	31630	H	ILE	2117	87.213	93.079	78.185	0.00	0.00
ATOM	31631	CA	ILE	2117	87.349	94.995	79.115	0.00	0.00
ATOM	31632	HA	ILE	2117	87.864	95.881	78.742	0.00	0.00
ATOM	31633	CB	ILE	2117	85.796	95.396	78.898	0.00	0.00
ATOM	31634	HB	ILE	2117	85.580	96.182	79.621	0.00	0.00

ATOM 31635	CG2	ILE	2117	85.418	95.785	77.533	0.00	0.00
ATOM 31636	1HG2	ILE	2117	84.432	96.166	77.267	0.00	0.00
ATOM 31637	2HG2	ILE	2117	86.104	96.517	77.106	0.00	0.00
ATOM 31638	3HG2	ILE	2117	85.512	94.943	76.847	0.00	0.00
ATOM 31639	CG1	ILE	2117	84.816	94.220	79.278	0.00	0.00
ATOM 31640	2HG1	ILE	2117	84.779	93.436	78.522	0.00	0.00
ATOM 31641	3HG1	ILE	2117	85.114	93.687	80.181	0.00	0.00
ATOM 31642	CD1	ILE	2117	83.309	94.520	79.467	0.00	0.00
ATOM 31643	1HD1	ILE	2117	83.281	95.599	79.619	0.00	0.00
ATOM 31644	2HD1	ILE	2117	82.768	94.152	78.595	0.00	0.00
ATOM 31645	3HD1	ILE	2117	82.903	94.076	80.376	0.00	0.00
ATOM 31646	C	ILE	2117	87.820	94.862	80.547	0.00	0.00
ATOM 31647	O	ILE	2117	88.111	95.846	81.133	0.00	0.00
ATOM 31648	N	LEU	2118	87.926	93.633	81.054	0.00	0.00
ATOM 31649	H	LEU	2118	87.847	92.847	80.425	0.00	0.00
ATOM 31650	CA	LEU	2118	88.516	93.257	82.342	0.00	0.00
ATOM 31651	HA	LEU	2118	87.886	93.711	83.108	0.00	0.00
ATOM 31652	CB	LEU	2118	88.410	91.708	82.497	0.00	0.00
ATOM 31653	HB2	LEU	2118	87.384	91.380	82.333	0.00	0.00
ATOM 31654	HB3	LEU	2118	89.106	91.195	81.834	0.00	0.00
ATOM 31655	CG	LEU	2118	88.756	91.398	84.004	0.00	0.00
ATOM 31656	HG	LEU	2118	89.731	91.648	84.420	0.00	0.00
ATOM 31657	CD1	LEU	2118	87.695	91.976	84.902	0.00	0.00
ATOM 31658	1HD1	LEU	2118	86.739	91.979	84.378	0.00	0.00
ATOM 31659	2HD1	LEU	2118	87.715	91.395	85.824	0.00	0.00
ATOM 31660	3HD1	LEU	2118	87.911	93.010	85.170	0.00	0.00

ATOM 31661	CD2	LEU	2118	88.629	89.891	84.363	0.00	0.00
ATOM 31662	1HD2	LEU	2118	89.253	89.323	83.674	0.00	0.00
ATOM 31663	2HD2	LEU	2118	89.092	89.676	85.327	0.00	0.00
ATOM 31664	3HD2	LEU	2118	87.607	89.516	84.411	0.00	0.00
ATOM 31665	C	LEU	2118	89.944	93.704	82.437	0.00	0.00
ATOM 31666	O	LEU	2118	90.299	94.448	83.338	0.00	0.00
ATOM 31667	N	ARG	2119	90.803	93.385	81.422	0.00	0.00
ATOM 31668	H	ARG	2119	90.587	92.800	80.628	0.00	0.00
ATOM 31669	CA	ARG	2119	92.163	93.936	81.292	0.00	0.00
ATOM 31670	HA	ARG	2119	92.779	93.730	82.167	0.00	0.00
ATOM 31671	CB	ARG	2119	92.872	93.316	80.126	0.00	0.00
ATOM 31672	HB2	ARG	2119	92.398	93.415	79.149	0.00	0.00
ATOM 31673	HB3	ARG	2119	93.808	93.849	79.957	0.00	0.00
ATOM 31674	CG	ARG	2119	93.137	91.881	80.398	0.00	0.00
ATOM 31675	HG2	ARG	2119	93.707	91.813	81.325	0.00	0.00
ATOM 31676	HG3	ARG	2119	92.221	91.305	80.521	0.00	0.00
ATOM 31677	CD	ARG	2119	93.950	91.039	79.309	0.00	0.00
ATOM 31678	HD2	ARG	2119	93.227	90.953	78.498	0.00	0.00
ATOM 31679	HD3	ARG	2119	94.878	91.513	78.990	0.00	0.00
ATOM 31680	NE	ARG	2119	94.260	89.684	79.854	0.00	0.00
ATOM 31681	HE	ARG	2119	93.586	88.958	79.658	0.00	0.00
ATOM 31682	CZ	ARG	2119	95.116	89.425	80.838	0.00	0.00
ATOM 31683	NH1	ARG	2119	95.917	90.292	81.382	0.00	0.00
ATOM 31684	1HH1	ARG	2119	96.211	90.173	82.341	0.00	0.00
ATOM 31685	2HH1	ARG	2119	95.886	91.238	81.029	0.00	0.00
ATOM 31686	NH2	ARG	2119	95.159	88.254	81.338	0.00	0.00

ATOM 31687 1HH2 ARG 2119 95.974 87.974 81.864 0.00 0.00  
ATOM 31688 2HH2 ARG 2119 94.511 87.611 80.905 0.00 0.00  
ATOM 31689 C ARG 2119 92.257 95.474 81.339 0.00 0.00  
ATOM 31690 O ARG 2119 93.113 96.020 82.019 0.00 0.00  
ATOM 31691 N THR 2120 91.305 96.094 80.564 0.00 0.00  
ATOM 31692 H THR 2120 90.628 95.503 80.103 0.00 0.00  
ATOM 31693 CA THR 2120 91.108 97.571 80.447 0.00 0.00  
ATOM 31694 HA THR 2120 92.027 98.034 80.088 0.00 0.00  
ATOM 31695 CB THR 2120 90.004 97.919 79.417 0.00 0.00  
ATOM 31696 HB THR 2120 89.031 97.552 79.745 0.00 0.00  
ATOM 31697 CG2 THR 2120 89.852 99.407 79.299 0.00 0.00  
ATOM 31698 1HG2 THR 2120 89.458 99.801 80.236 0.00 0.00  
ATOM 31699 2HG2 THR 2120 90.807 99.843 79.007 0.00 0.00  
ATOM 31700 3HG2 THR 2120 89.046 99.590 78.588 0.00 0.00  
ATOM 31701 OG1 THR 2120 90.450 97.335 78.182 0.00 0.00  
ATOM 31702 HG1 THR 2120 89.953 96.537 77.986 0.00 0.00  
ATOM 31703 C THR 2120 90.932 98.214 81.818 0.00 0.00  
ATOM 31704 O THR 2120 91.569 99.271 82.127 0.00 0.00  
ATOM 31705 N TRP 2121 90.077 97.651 82.636 0.00 0.00  
ATOM 31706 H TRP 2121 89.607 96.828 82.288 0.00 0.00  
ATOM 31707 CA TRP 2121 89.855 98.116 84.045 0.00 0.00  
ATOM 31708 HA TRP 2121 89.765 99.195 83.924 0.00 0.00  
ATOM 31709 CB TRP 2121 88.551 97.593 84.681 0.00 0.00  
ATOM 31710 HB2 TRP 2121 88.413 96.516 84.580 0.00 0.00  
ATOM 31711 HB3 TRP 2121 88.622 97.823 85.744 0.00 0.00  
ATOM 31712 CG TRP 2121 87.322 98.287 84.136 0.00 0.00

ATOM	31713	CD1	TRP	2121	86.420	97.823	83.167	0.00	0.00
ATOM	31714	HD1	TRP	2121	86.377	96.826	82.754	0.00	0.00
ATOM	31715	NE1	TRP	2121	85.520	98.801	82.893	0.00	0.00
ATOM	31716	HE1	TRP	2121	84.868	98.619	82.143	0.00	0.00
ATOM	31717	CE2	TRP	2121	85.836	99.923	83.537	0.00	0.00
ATOM	31718	CZ2	TRP	2121	85.171	101.153	83.504	0.00	0.00
ATOM	31719	HZ2	TRP	2121	84.313	101.235	82.852	0.00	0.00
ATOM	31720	CH2	TRP	2121	85.604	102.224	84.289	0.00	0.00
ATOM	31721	HH2	TRP	2121	85.099	103.170	84.166	0.00	0.00
ATOM	31722	CZ3	TRP	2121	86.804	101.996	84.987	0.00	0.00
ATOM	31723	HZ3	TRP	2121	87.178	102.868	85.504	0.00	0.00
ATOM	31724	CE3	TRP	2121	87.478	100.761	84.973	0.00	0.00
ATOM	31725	HE3	TRP	2121	88.360	100.586	85.572	0.00	0.00
ATOM	31726	CD2	TRP	2121	86.993	99.685	84.274	0.00	0.00
ATOM	31727	C	TRP	2121	90.969	97.755	85.043	0.00	0.00
ATOM	31728	O	TRP	2121	91.404	98.551	85.864	0.00	0.00
ATOM	31729	N	GLN	2122	91.596	96.561	84.913	0.00	0.00
ATOM	31730	H	GLN	2122	91.315	95.825	84.281	0.00	0.00
ATOM	31731	CA	GLN	2122	92.783	96.308	85.730	0.00	0.00
ATOM	31732	HA	GLN	2122	92.507	96.260	86.784	0.00	0.00
ATOM	31733	CB	GLN	2122	93.467	94.889	85.430	0.00	0.00
ATOM	31734	HB2	GLN	2122	93.598	94.752	84.356	0.00	0.00
ATOM	31735	HB3	GLN	2122	94.467	94.830	85.859	0.00	0.00
ATOM	31736	CG	GLN	2122	92.541	93.750	85.938	0.00	0.00
ATOM	31737	HG2	GLN	2122	92.605	93.626	87.019	0.00	0.00
ATOM	31738	HG3	GLN	2122	91.497	93.952	85.699	0.00	0.00



ATOM 31739	CD	GLN	2122	92.900	92.437	85.321	0.00	0.00
ATOM 31740	OE1	GLN	2122	92.991	92.361	84.085	0.00	0.00
ATOM 31741	NE2	GLN	2122	93.136	91.389	86.117	0.00	0.00
ATOM 31742	1HE2	GLN	2122	93.419	90.499	85.733	0.00	0.00
ATOM 31743	2HE2	GLN	2122	93.136	91.360	87.127	0.00	0.00
ATOM 31744	C	GLN	2122	93.903	97.368	85.387	0.00	0.00
ATOM 31745	O	GLN	2122	94.539	97.766	86.382	0.00	0.00
ATOM 31746	N	VAL	2123	94.126	97.815	84.139	0.00	0.00
ATOM 31747	H	VAL	2123	93.631	97.355	83.389	0.00	0.00
ATOM 31748	CA	VAL	2123	95.119	98.953	83.866	0.00	0.00
ATOM 31749	HA	VAL	2123	96.058	98.567	84.264	0.00	0.00
ATOM 31750	CB	VAL	2123	95.176	99.214	82.353	0.00	0.00
ATOM 31751	HB	VAL	2123	94.182	99.366	81.932	0.00	0.00
ATOM 31752	CG1	VAL	2123	95.908	100.465	81.878	0.00	0.00
ATOM 31753	1HG1	VAL	2123	95.819	100.450	80.791	0.00	0.00
ATOM 31754	2HG1	VAL	2123	95.575	101.416	82.292	0.00	0.00
ATOM 31755	3HG1	VAL	2123	96.964	100.336	82.117	0.00	0.00
ATOM 31756	CG2	VAL	2123	95.774	98.063	81.588	0.00	0.00
ATOM 31757	1HG2	VAL	2123	95.350	97.067	81.712	0.00	0.00
ATOM 31758	2HG2	VAL	2123	95.629	98.203	80.517	0.00	0.00
ATOM 31759	3HG2	VAL	2123	96.825	97.994	81.869	0.00	0.00
ATOM 31760	C	VAL	2123	94.655	100.216	84.654	0.00	0.00
ATOM 31761	O	VAL	2123	95.557	100.960	85.083	0.00	0.00
ATOM 31762	N	ALA	2124	93.372	100.469	84.844	0.00	0.00
ATOM 31763	H	ALA	2124	92.671	99.878	84.422	0.00	0.00
ATOM 31764	CA	ALA	2124	93.066	101.720	85.619	0.00	0.00

ATOM	31765	HA	ALA	2124	93.545	102.589	85.167	0.00	0.00
ATOM	31766	CB	ALA	2124	91.548	101.955	85.398	0.00	0.00
ATOM	31767	HB1	ALA	2124	91.424	102.336	84.384	0.00	0.00
ATOM	31768	HB2	ALA	2124	90.994	101.022	85.503	0.00	0.00
ATOM	31769	HB3	ALA	2124	91.207	102.731	86.083	0.00	0.00
ATOM	31770	C	ALA	2124	93.458	101.701	87.138	0.00	0.00
ATOM	31771	O	ALA	2124	94.070	102.637	87.650	0.00	0.00
ATOM	31772	N	HIE	2125	93.285	100.525	87.733	0.00	0.00
ATOM	31773	H	HIE	2125	92.944	99.786	87.136	0.00	0.00
ATOM	31774	CA	HIE	2125	93.650	100.285	89.065	0.00	0.00
ATOM	31775	HA	HIE	2125	93.184	101.108	89.606	0.00	0.00
ATOM	31776	CB	HIE	2125	93.143	98.864	89.501	0.00	0.00
ATOM	31777	HB2	HIE	2125	92.075	98.812	89.713	0.00	0.00
ATOM	31778	HB3	HIE	2125	93.349	98.151	88.703	0.00	0.00
ATOM	31779	CG	HIE	2125	93.844	98.256	90.696	0.00	0.00
ATOM	31780	ND1	HIE	2125	93.348	98.266	92.017	0.00	0.00
ATOM	31781	CE1	HIE	2125	94.184	97.513	92.691	0.00	0.00
ATOM	31782	HE1	HIE	2125	93.947	97.273	93.717	0.00	0.00
ATOM	31783	NE2	HIE	2125	95.241	97.093	91.976	0.00	0.00
ATOM	31784	HE2	HIE	2125	95.927	96.423	92.293	0.00	0.00
ATOM	31785	CD2	HIE	2125	95.017	97.584	90.702	0.00	0.00
ATOM	31786	HD2	HIE	2125	95.652	97.408	89.846	0.00	0.00
ATOM	31787	C	HIE	2125	95.175	100.305	89.282	0.00	0.00
ATOM	31788	O	HIE	2125	95.639	100.863	90.234	0.00	0.00
ATOM	31789	N	ARG	2126	95.932	99.894	88.298	0.00	0.00
ATOM	31790	H	ARG	2126	95.457	99.525	87.486	0.00	0.00

ATOM	31791	CA	ARG	2126	97.441	99.866	88.374	0.00	0.00
ATOM	31792	HA	ARG	2126	97.650	99.363	89.317	0.00	0.00
ATOM	31793	CB	ARG	2126	97.931	98.902	87.305	0.00	0.00
ATOM	31794	HB2	ARG	2126	97.455	97.922	87.356	0.00	0.00
ATOM	31795	HB3	ARG	2126	97.839	99.358	86.319	0.00	0.00
ATOM	31796	CG	ARG	2126	99.420	98.592	87.569	0.00	0.00
ATOM	31797	HG2	ARG	2126	100.051	99.466	87.731	0.00	0.00
ATOM	31798	HG3	ARG	2126	99.461	97.918	88.425	0.00	0.00
ATOM	31799	CD	ARG	2126	100.092	97.776	86.425	0.00	0.00
ATOM	31800	HD2	ARG	2126	100.680	97.020	86.946	0.00	0.00
ATOM	31801	HD3	ARG	2126	99.248	97.377	85.862	0.00	0.00
ATOM	31802	NE	ARG	2126	100.884	98.639	85.494	0.00	0.00
ATOM	31803	HE	ARG	2126	100.489	98.945	84.616	0.00	0.00
ATOM	31804	CZ	ARG	2126	102.109	98.988	85.711	0.00	0.00
ATOM	31805	NH1	ARG	2126	102.700	98.787	86.866	0.00	0.00
ATOM	31806	1HH1	ARG	2126	103.703	98.859	86.959	0.00	0.00
ATOM	31807	2HH1	ARG	2126	102.199	98.422	87.664	0.00	0.00
ATOM	31808	NH2	ARG	2126	102.749	99.586	84.744	0.00	0.00
ATOM	31809	1HH2	ARG	2126	103.688	99.889	84.962	0.00	0.00
ATOM	31810	2HH2	ARG	2126	102.258	99.655	83.865	0.00	0.00
ATOM	31811	C	ARG	2126	97.916	101.309	88.190	0.00	0.00
ATOM	31812	O	ARG	2126	98.837	101.745	88.834	0.00	0.00
ATOM	31813	N	MET	2127	97.189	102.126	87.472	0.00	0.00
ATOM	31814	H	MET	2127	96.656	101.655	86.756	0.00	0.00
ATOM	31815	CA	MET	2127	97.452	103.533	87.459	0.00	0.00
ATOM	31816	HA	MET	2127	98.503	103.706	87.228	0.00	0.00

ATOM 31817	CB MET 2127	96.708	104.138	86.209	0.00	0.00
ATOM 31818	HB2 MET 2127	95.691	103.764	86.098	0.00	0.00
ATOM 31819	HB3 MET 2127	96.673	105.228	86.216	0.00	0.00
ATOM 31820	CG MET 2127	97.565	103.893	84.879	0.00	0.00
ATOM 31821	HG2 MET 2127	97.834	102.841	84.786	0.00	0.00
ATOM 31822	HG3 MET 2127	97.006	103.923	83.944	0.00	0.00
ATOM 31823	SD MET 2127	98.847	105.113	84.798	0.00	0.00
ATOM 31824	CE MET 2127	100.411	104.240	85.161	0.00	0.00
ATOM 31825	HE1 MET 2127	101.173	105.020	85.180	0.00	0.00
ATOM 31826	HE2 MET 2127	100.312	103.785	86.146	0.00	0.00
ATOM 31827	HE3 MET 2127	100.655	103.529	84.372	0.00	0.00
ATOM 31828	C MET 2127	97.131	104.313	88.747	0.00	0.00
ATOM 31829	O MET 2127	98.057	104.960	89.255	0.00	0.00
ATOM 31830	N LYS 2128	96.030	103.996	89.426	0.00	0.00
ATOM 31831	H LYS 2128	95.443	103.307	88.978	0.00	0.00
ATOM 31832	CA LYS 2128	95.827	104.477	90.808	0.00	0.00
ATOM 31833	HA LYS 2128	95.958	105.559	90.803	0.00	0.00
ATOM 31834	CB LYS 2128	94.395	104.196	91.244	0.00	0.00
ATOM 31835	HB2 LYS 2128	93.749	104.374	90.384	0.00	0.00
ATOM 31836	HB3 LYS 2128	94.340	103.182	91.638	0.00	0.00
ATOM 31837	CG LYS 2128	93.970	105.162	92.386	0.00	0.00
ATOM 31838	HG2 LYS 2128	94.834	105.381	93.014	0.00	0.00
ATOM 31839	HG3 LYS 2128	93.575	106.089	91.971	0.00	0.00
ATOM 31840	CD LYS 2128	92.850	104.625	93.328	0.00	0.00
ATOM 31841	HD2 LYS 2128	92.025	104.483	92.630	0.00	0.00
ATOM 31842	HD3 LYS 2128	93.075	103.652	93.764	0.00	0.00

ATOM 31843	CE	LYS	2128	92.550	105.593	94.518	0.00	0.00
ATOM 31844	HE2	LYS	2128	93.300	105.433	95.293	0.00	0.00
ATOM 31845	HE3	LYS	2128	92.484	106.643	94.232	0.00	0.00
ATOM 31846	NZ	LYS	2128	91.191	105.255	94.956	0.00	0.00
ATOM 31847	HZ1	LYS	2128	90.467	105.532	94.309	0.00	0.00
ATOM 31848	HZ2	LYS	2128	91.044	104.269	95.117	0.00	0.00
ATOM 31849	HZ3	LYS	2128	90.951	105.671	95.844	0.00	0.00
ATOM 31850	C	LYS	2128	96.847	103.942	91.792	0.00	0.00
ATOM 31851	O	LYS	2128	97.058	104.678	92.761	0.00	0.00
ATOM 31852	N	VAL	2129	97.300	102.704	91.587	0.00	0.00
ATOM 31853	H	VAL	2129	96.822	102.078	90.956	0.00	0.00
ATOM 31854	CA	VAL	2129	98.437	102.133	92.444	0.00	0.00
ATOM 31855	HA	VAL	2129	98.216	102.295	93.498	0.00	0.00
ATOM 31856	CB	VAL	2129	98.488	100.591	92.281	0.00	0.00
ATOM 31857	HB	VAL	2129	98.555	100.314	91.229	0.00	0.00
ATOM 31858	CG1	VAL	2129	99.764	100.021	92.962	0.00	0.00
ATOM 31859	1HG1	VAL	2129	99.784	100.306	94.014	0.00	0.00
ATOM 31860	2HG1	VAL	2129	99.666	98.945	92.818	0.00	0.00
ATOM 31861	3HG1	VAL	2129	100.707	100.310	92.496	0.00	0.00
ATOM 31862	CG2	VAL	2129	97.318	99.947	93.010	0.00	0.00
ATOM 31863	1HG2	VAL	2129	96.428	100.538	92.796	0.00	0.00
ATOM 31864	2HG2	VAL	2129	97.211	99.004	92.474	0.00	0.00
ATOM 31865	3HG2	VAL	2129	97.429	99.789	94.083	0.00	0.00
ATOM 31866	C	VAL	2129	99.771	102.831	92.135	0.00	0.00
ATOM 31867	O	VAL	2129	100.510	103.088	93.087	0.00	0.00
ATOM 31868	N	GLN	2130	100.118	103.167	90.872	0.00	0.00

ATOM 31869	H	GLN 2130	99.443	102.926	90.161	0.00	0.00
ATOM 31870	CA	GLN 2130	101.424	103.584	90.435	0.00	0.00
ATOM 31871	HA	GLN 2130	102.152	103.356	91.214	0.00	0.00
ATOM 31872	CB	GLN 2130	101.796	102.939	89.071	0.00	0.00
ATOM 31873	HB2	GLN 2130	101.024	103.203	88.348	0.00	0.00
ATOM 31874	HB3	GLN 2130	102.721	103.355	88.673	0.00	0.00
ATOM 31875	CG	GLN 2130	101.910	101.385	89.130	0.00	0.00
ATOM 31876	HG2	GLN 2130	101.004	101.010	89.606	0.00	0.00
ATOM 31877	HG3	GLN 2130	102.036	101.030	88.107	0.00	0.00
ATOM 31878	CD	GLN 2130	103.277	101.028	89.807	0.00	0.00
ATOM 31879	OE1	GLN 2130	103.239	100.597	90.940	0.00	0.00
ATOM 31880	NE2	GLN 2130	104.396	101.510	89.363	0.00	0.00
ATOM 31881	1HE2	GLN 2130	105.259	101.375	89.870	0.00	0.00
ATOM 31882	2HE2	GLN 2130	104.391	102.016	88.489	0.00	0.00
ATOM 31883	C	GLN 2130	101.602	105.108	90.311	0.00	0.00
ATOM 31884	O	GLN 2130	102.786	105.536	90.447	0.00	0.00
ATOM 31885	N	ARG 2131	100.587	105.928	89.975	0.00	0.00
ATOM 31886	H	ARG 2131	99.675	105.584	89.710	0.00	0.00
ATOM 31887	CA	ARG 2131	100.723	107.420	89.981	0.00	0.00
ATOM 31888	HA	ARG 2131	101.633	107.662	90.530	0.00	0.00
ATOM 31889	CB	ARG 2131	101.129	107.940	88.521	0.00	0.00
ATOM 31890	HB2	ARG 2131	101.358	108.997	88.662	0.00	0.00
ATOM 31891	HB3	ARG 2131	102.066	107.528	88.147	0.00	0.00
ATOM 31892	CG	ARG 2131	100.103	107.722	87.396	0.00	0.00
ATOM 31893	HG2	ARG 2131	100.005	106.699	87.031	0.00	0.00
ATOM 31894	HG3	ARG 2131	99.113	108.009	87.751	0.00	0.00

ATOM	31895	CD	ARG	2131	100.388	108.619	86.208	0.00	0.00
ATOM	31896	HD2	ARG	2131	100.497	109.679	86.435	0.00	0.00
ATOM	31897	HD3	ARG	2131	101.329	108.357	85.724	0.00	0.00
ATOM	31898	NE	ARG	2131	99.275	108.471	85.216	0.00	0.00
ATOM	31899	HE	ARG	2131	98.671	107.675	85.365	0.00	0.00
ATOM	31900	CZ	ARG	2131	98.941	109.380	84.305	0.00	0.00
ATOM	31901	NH1	ARG	2131	99.713	110.406	84.089	0.00	0.00
ATOM	31902	1HH1	ARG	2131	99.354	111.210	83.594	0.00	0.00
ATOM	31903	2HH1	ARG	2131	100.629	110.520	84.499	0.00	0.00
ATOM	31904	NH2	ARG	2131	97.868	109.300	83.612	0.00	0.00
ATOM	31905	1HH2	ARG	2131	97.584	110.044	82.990	0.00	0.00
ATOM	31906	2HH2	ARG	2131	97.109	108.785	84.036	0.00	0.00
ATOM	31907	C	ARG	2131	99.561	108.080	90.731	0.00	0.00
ATOM	31908	O	ARG	2131	99.438	109.285	90.572	0.00	0.00
ATOM	31909	N	GLY	2132	98.797	107.289	91.533	0.00	0.00
ATOM	31910	H	GLY	2132	98.839	106.280	91.501	0.00	0.00
ATOM	31911	CA	GLY	2132	97.887	107.830	92.526	0.00	0.00
ATOM	31912	HA2	GLY	2132	97.484	107.078	93.204	0.00	0.00
ATOM	31913	HA3	GLY	2132	98.473	108.582	93.056	0.00	0.00
ATOM	31914	C	GLY	2132	96.633	108.487	91.930	0.00	0.00
ATOM	31915	O	GLY	2132	96.213	107.964	90.885	0.00	0.00
ATOM	31916	N	ALA	2133	95.965	109.394	92.567	0.00	0.00
ATOM	31917	H	ALA	2133	96.283	109.782	93.443	0.00	0.00
ATOM	31918	CA	ALA	2133	94.736	109.973	92.031	0.00	0.00
ATOM	31919	HA	ALA	2133	94.060	109.200	91.666	0.00	0.00
ATOM	31920	CB	ALA	2133	94.005	110.809	93.067	0.00	0.00

ATOM	31921	HB1	ALA	2133	93.615	110.112	93.810	0.00	0.00
ATOM	31922	HB2	ALA	2133	94.616	111.630	93.440	0.00	0.00
ATOM	31923	HB3	ALA	2133	93.140	111.248	92.571	0.00	0.00
ATOM	31924	C	ALA	2133	95.039	110.730	90.805	0.00	0.00
ATOM	31925	O	ALA	2133	96.004	111.355	90.681	0.00	0.00
ATOM	31926	N	LEU	2134	94.132	110.788	89.801	0.00	0.00
ATOM	31927	H	LEU	2134	93.243	110.324	89.922	0.00	0.00
ATOM	31928	CA	LEU	2134	94.390	111.241	88.480	0.00	0.00
ATOM	31929	HA	LEU	2134	95.349	110.825	88.170	0.00	0.00
ATOM	31930	CB	LEU	2134	93.340	110.608	87.499	0.00	0.00
ATOM	31931	HB2	LEU	2134	93.369	109.521	87.419	0.00	0.00
ATOM	31932	HB3	LEU	2134	92.311	110.693	87.848	0.00	0.00
ATOM	31933	CG	LEU	2134	93.386	111.260	86.071	0.00	0.00
ATOM	31934	HG	LEU	2134	93.029	112.276	86.244	0.00	0.00
ATOM	31935	CD1	LEU	2134	94.852	111.326	85.504	0.00	0.00
ATOM	31936	1HD1	LEU	2134	95.503	110.490	85.760	0.00	0.00
ATOM	31937	2HD1	LEU	2134	94.839	111.311	84.414	0.00	0.00
ATOM	31938	3HD1	LEU	2134	95.305	112.244	85.878	0.00	0.00
ATOM	31939	CD2	LEU	2134	92.511	110.432	85.161	0.00	0.00
ATOM	31940	1HD2	LEU	2134	91.568	110.251	85.679	0.00	0.00
ATOM	31941	2HD2	LEU	2134	92.334	110.839	84.166	0.00	0.00
ATOM	31942	3HD2	LEU	2134	93.059	109.504	84.999	0.00	0.00
ATOM	31943	C	LEU	2134	94.444	112.787	88.555	0.00	0.00
ATOM	31944	O	LEU	2134	93.452	113.482	88.646	0.00	0.00
ATOM	31945	N	ALA	2135	95.582	113.360	88.609	0.00	0.00
ATOM	31946	H	ALA	2135	96.403	112.776	88.679	0.00	0.00



ATOM	31947	CA	ALA	2135	95.834	114.671	89.084	0.00	0.00
ATOM	31948	HA	ALA	2135	95.173	114.797	89.941	0.00	0.00
ATOM	31949	CB	ALA	2135	97.325	114.848	89.344	0.00	0.00
ATOM	31950	HB1	ALA	2135	97.723	114.630	88.353	0.00	0.00
ATOM	31951	HB2	ALA	2135	97.488	115.875	89.672	0.00	0.00
ATOM	31952	HB3	ALA	2135	97.696	114.021	89.950	0.00	0.00
ATOM	31953	C	ALA	2135	95.324	115.834	88.124	0.00	0.00
ATOM	31954	O	ALA	2135	95.402	117.006	88.566	0.00	0.00
ATOM	31955	N	GLU	2136	94.659	115.561	86.997	0.00	0.00
ATOM	31956	H	GLU	2136	94.744	114.601	86.694	0.00	0.00
ATOM	31957	CA	GLU	2136	93.801	116.435	86.216	0.00	0.00
ATOM	31958	HA	GLU	2136	94.281	117.362	85.905	0.00	0.00
ATOM	31959	CB	GLU	2136	93.365	115.654	84.975	0.00	0.00
ATOM	31960	HB2	GLU	2136	92.713	114.834	85.278	0.00	0.00
ATOM	31961	HB3	GLU	2136	92.784	116.307	84.323	0.00	0.00
ATOM	31962	CG	GLU	2136	94.480	115.048	84.053	0.00	0.00
ATOM	31963	HG2	GLU	2136	95.090	115.874	83.688	0.00	0.00
ATOM	31964	HG3	GLU	2136	95.036	114.359	84.688	0.00	0.00
ATOM	31965	CD	GLU	2136	94.016	114.254	82.798	0.00	0.00
ATOM	31966	OE1	GLU	2136	92.851	114.415	82.326	0.00	0.00
ATOM	31967	OE2	GLU	2136	94.754	113.344	82.366	0.00	0.00
ATOM	31968	C	GLU	2136	92.622	117.053	86.907	0.00	0.00
ATOM	31969	O	GLU	2136	92.027	118.011	86.419	0.00	0.00
ATOM	31970	N	GLU	2137	92.163	116.348	87.978	0.00	0.00
ATOM	31971	H	GLU	2137	92.777	115.627	88.328	0.00	0.00
ATOM	31972	CA	GLU	2137	90.912	116.582	88.710	0.00	0.00

ATOM	31973	HA	GLU	2137	90.606	117.616	88.549	0.00	0.00
ATOM	31974	CB	GLU	2137	89.832	115.708	88.250	0.00	0.00
ATOM	31975	HB2	GLU	2137	89.593	115.979	87.222	0.00	0.00
ATOM	31976	HB3	GLU	2137	90.092	114.653	88.339	0.00	0.00
ATOM	31977	CG	GLU	2137	88.620	115.825	89.195	0.00	0.00
ATOM	31978	HG2	GLU	2137	87.955	115.056	88.802	0.00	0.00
ATOM	31979	HG3	GLU	2137	88.922	115.441	90.170	0.00	0.00
ATOM	31980	CD	GLU	2137	87.997	117.214	89.249	0.00	0.00
ATOM	31981	OE1	GLU	2137	87.614	117.861	88.230	0.00	0.00
ATOM	31982	OE2	GLU	2137	87.903	117.747	90.395	0.00	0.00
ATOM	31983	C	GLU	2137	91.214	116.404	90.188	0.00	0.00
ATOM	31984	O	GLU	2137	91.941	115.511	90.571	0.00	0.00
ATOM	31985	N	THR	2138	90.727	117.324	91.080	0.00	0.00
ATOM	31986	H	THR	2138	90.081	118.018	90.731	0.00	0.00
ATOM	31987	CA	THR	2138	91.179	117.349	92.507	0.00	0.00
ATOM	31988	HA	THR	2138	92.137	116.847	92.643	0.00	0.00
ATOM	31989	CB	THR	2138	91.358	118.757	93.073	0.00	0.00
ATOM	31990	HB	THR	2138	91.447	118.843	94.156	0.00	0.00
ATOM	31991	CG2	THR	2138	92.566	119.486	92.478	0.00	0.00
ATOM	31992	1HG2	THR	2138	92.549	119.642	91.399	0.00	0.00
ATOM	31993	2HG2	THR	2138	92.726	120.379	93.083	0.00	0.00
ATOM	31994	3HG2	THR	2138	93.441	118.869	92.678	0.00	0.00
ATOM	31995	OG1	THR	2138	90.131	119.453	92.675	0.00	0.00
ATOM	31996	HG1	THR	2138	90.266	120.347	92.996	0.00	0.00
ATOM	31997	C	THR	2138	90.247	116.552	93.447	0.00	0.00
ATOM	31998	O	THR	2138	90.650	116.130	94.510	0.00	0.00

ATOM 31999	N	GLY 2139	89.056	116.311	93.019	0.00	0.00
ATOM 32000	H	GLY 2139	88.793	116.760	92.153	0.00	0.00
ATOM 32001	CA	GLY 2139	88.063	115.502	93.711	0.00	0.00
ATOM 32002	HA2	GLY 2139	87.616	116.051	94.539	0.00	0.00
ATOM 32003	HA3	GLY 2139	87.302	115.197	92.993	0.00	0.00
ATOM 32004	C	GLY 2139	88.591	114.213	94.205	0.00	0.00
ATOM 32005	O	GLY 2139	89.135	113.374	93.451	0.00	0.00
ATOM 32006	N	ASP 2140	88.383	113.889	95.446	0.00	0.00
ATOM 32007	H	ASP 2140	87.958	114.593	96.033	0.00	0.00
ATOM 32008	CA	ASP 2140	88.798	112.682	96.138	0.00	0.00
ATOM 32009	HA	ASP 2140	89.805	112.355	95.879	0.00	0.00
ATOM 32010	CB	ASP 2140	88.858	113.003	97.664	0.00	0.00
ATOM 32011	HB2	ASP 2140	89.144	114.051	97.750	0.00	0.00
ATOM 32012	HB3	ASP 2140	89.542	112.341	98.195	0.00	0.00
ATOM 32013	CG	ASP 2140	87.434	113.046	98.300	0.00	0.00
ATOM 32014	OD1	ASP 2140	86.691	113.984	97.989	0.00	0.00
ATOM 32015	OD2	ASP 2140	87.205	112.113	99.091	0.00	0.00
ATOM 32016	C	ASP 2140	87.903	111.452	95.883	0.00	0.00
ATOM 32017	O	ASP 2140	87.619	110.627	96.760	0.00	0.00
ATOM 32018	N	ASN 2141	87.526	111.264	94.580	0.00	0.00
ATOM 32019	H	ASN 2141	87.903	111.866	93.862	0.00	0.00
ATOM 32020	CA	ASN 2141	86.798	110.081	94.032	0.00	0.00
ATOM 32021	HA	ASN 2141	86.756	109.268	94.757	0.00	0.00
ATOM 32022	CB	ASN 2141	85.420	110.608	93.763	0.00	0.00
ATOM 32023	HB2	ASN 2141	84.754	109.897	93.274	0.00	0.00
ATOM 32024	HB3	ASN 2141	84.906	110.684	94.722	0.00	0.00

ATOM 32025	CG	ASN 2141	85.273	111.812	92.897	0.00	0.00
ATOM 32026	OD1	ASN 2141	85.348	111.697	91.666	0.00	0.00
ATOM 32027	ND2	ASN 2141	85.217	113.026	93.315	0.00	0.00
ATOM 32028	1HD2	ASN 2141	85.105	113.766	92.636	0.00	0.00
ATOM 32029	2HD2	ASN 2141	85.037	113.210	94.291	0.00	0.00
ATOM 32030	C	ASN 2141	87.560	109.618	92.776	0.00	0.00
ATOM 32031	O	ASN 2141	88.363	110.420	92.202	0.00	0.00
ATOM 32032	N	ASP 2142	87.297	108.445	92.264	0.00	0.00
ATOM 32033	H	ASP 2142	86.779	107.817	92.861	0.00	0.00
ATOM 32034	CA	ASP 2142	87.954	108.003	91.032	0.00	0.00
ATOM 32035	HA	ASP 2142	88.810	108.648	90.834	0.00	0.00
ATOM 32036	CB	ASP 2142	88.487	106.609	91.131	0.00	0.00
ATOM 32037	HB2	ASP 2142	87.629	105.943	91.217	0.00	0.00
ATOM 32038	HB3	ASP 2142	89.019	106.307	90.228	0.00	0.00
ATOM 32039	CG	ASP 2142	89.348	106.397	92.356	0.00	0.00
ATOM 32040	OD1	ASP 2142	89.070	105.613	93.303	0.00	0.00
ATOM 32041	OD2	ASP 2142	90.397	107.003	92.514	0.00	0.00
ATOM 32042	C	ASP 2142	87.151	108.326	89.731	0.00	0.00
ATOM 32043	O	ASP 2142	87.510	107.875	88.708	0.00	0.00
ATOM 32044	N	ASN 2143	86.048	109.124	89.743	0.00	0.00
ATOM 32045	H	ASN 2143	85.846	109.532	90.644	0.00	0.00
ATOM 32046	CA	ASN 2143	84.967	109.229	88.692	0.00	0.00
ATOM 32047	HA	ASN 2143	84.519	108.267	88.444	0.00	0.00
ATOM 32048	CB	ASN 2143	83.856	110.128	89.232	0.00	0.00
ATOM 32049	HB2	ASN 2143	84.376	111.045	89.509	0.00	0.00
ATOM 32050	HB3	ASN 2143	83.206	110.319	88.378	0.00	0.00

ATOM	32051	CG	ASN	2143	83.097	109.594	90.428	0.00	0.00
ATOM	32052	OD1	ASN	2143	83.401	108.596	91.100	0.00	0.00
ATOM	32053	ND2	ASN	2143	81.984	110.245	90.662	0.00	0.00
ATOM	32054	1HD2	ASN	2143	81.449	109.862	91.429	0.00	0.00
ATOM	32055	2HD2	ASN	2143	81.741	111.074	90.138	0.00	0.00
ATOM	32056	C	ASN	2143	85.536	109.784	87.428	0.00	0.00
ATOM	32057	O	ASN	2143	85.181	109.328	86.333	0.00	0.00
ATOM	32058	N	PHE	2144	86.493	110.723	87.457	0.00	0.00
ATOM	32059	H	PHE	2144	87.039	110.875	88.293	0.00	0.00
ATOM	32060	CA	PHE	2144	87.197	111.352	86.290	0.00	0.00
ATOM	32061	HA	PHE	2144	86.567	111.534	85.420	0.00	0.00
ATOM	32062	CB	PHE	2144	87.907	112.607	86.730	0.00	0.00
ATOM	32063	HB2	PHE	2144	87.337	113.022	87.562	0.00	0.00
ATOM	32064	HB3	PHE	2144	88.866	112.526	87.241	0.00	0.00
ATOM	32065	CG	PHE	2144	88.025	113.645	85.576	0.00	0.00
ATOM	32066	CD1	PHE	2144	87.079	114.705	85.496	0.00	0.00
ATOM	32067	HD1	PHE	2144	86.238	114.627	86.168	0.00	0.00
ATOM	32068	CE1	PHE	2144	87.255	115.800	84.664	0.00	0.00
ATOM	32069	HE1	PHE	2144	86.527	116.598	84.676	0.00	0.00
ATOM	32070	CZ	PHE	2144	88.408	115.991	83.905	0.00	0.00
ATOM	32071	HZ	PHE	2144	88.584	116.879	83.316	0.00	0.00
ATOM	32072	CE2	PHE	2144	89.328	114.891	83.948	0.00	0.00
ATOM	32073	HE2	PHE	2144	90.266	114.984	83.422	0.00	0.00
ATOM	32074	CD2	PHE	2144	89.156	113.729	84.756	0.00	0.00
ATOM	32075	HD2	PHE	2144	89.907	112.952	84.755	0.00	0.00
ATOM	32076	C	PHE	2144	88.259	110.414	85.592	0.00	0.00

ATOM	32077	O	PHE	2144	88.363	110.441	84.394	0.00	0.00
ATOM	32078	N	ARG	2145	88.911	109.553	86.458	0.00	0.00
ATOM	32079	H	ARG	2145	88.861	109.695	87.456	0.00	0.00
ATOM	32080	CA	ARG	2145	89.487	108.350	85.836	0.00	0.00
ATOM	32081	HA	ARG	2145	90.127	108.591	84.987	0.00	0.00
ATOM	32082	CB	ARG	2145	90.437	107.735	86.928	0.00	0.00
ATOM	32083	HB2	ARG	2145	91.238	108.383	87.284	0.00	0.00
ATOM	32084	HB3	ARG	2145	89.916	107.417	87.831	0.00	0.00
ATOM	32085	CG	ARG	2145	91.116	106.514	86.310	0.00	0.00
ATOM	32086	HG2	ARG	2145	90.402	105.702	86.451	0.00	0.00
ATOM	32087	HG3	ARG	2145	91.401	106.620	85.264	0.00	0.00
ATOM	32088	CD	ARG	2145	92.404	106.161	87.103	0.00	0.00
ATOM	32089	HD2	ARG	2145	92.140	106.212	88.159	0.00	0.00
ATOM	32090	HD3	ARG	2145	92.715	105.157	86.816	0.00	0.00
ATOM	32091	NE	ARG	2145	93.608	106.954	86.812	0.00	0.00
ATOM	32092	HE	ARG	2145	93.939	106.825	85.866	0.00	0.00
ATOM	32093	CZ	ARG	2145	94.567	107.315	87.620	0.00	0.00
ATOM	32094	NH1	ARG	2145	94.385	107.401	88.909	0.00	0.00
ATOM	32095	1HH1	ARG	2145	95.111	107.609	89.579	0.00	0.00
ATOM	32096	2HH1	ARG	2145	93.559	106.945	89.272	0.00	0.00
ATOM	32097	NH2	ARG	2145	95.666	107.862	87.190	0.00	0.00
ATOM	32098	1HH2	ARG	2145	96.273	108.322	87.854	0.00	0.00
ATOM	32099	2HH2	ARG	2145	95.645	108.092	86.207	0.00	0.00
ATOM	32100	C	ARG	2145	88.460	107.357	85.240	0.00	0.00
ATOM	32101	O	ARG	2145	88.487	107.174	84.000	0.00	0.00
ATOM	32102	N	VAL	2146	87.527	106.790	86.031	0.00	0.00

ATOM	32103	H	VAL	2146	87.558	107.133	86.980	0.00	0.00
ATOM	32104	CA	VAL	2146	86.512	105.864	85.519	0.00	0.00
ATOM	32105	HA	VAL	2146	86.887	104.870	85.272	0.00	0.00
ATOM	32106	CB	VAL	2146	85.428	105.665	86.627	0.00	0.00
ATOM	32107	HB	VAL	2146	85.270	106.612	87.142	0.00	0.00
ATOM	32108	CG1	VAL	2146	84.104	104.965	86.272	0.00	0.00
ATOM	32109	1HG1	VAL	2146	83.433	104.889	87.128	0.00	0.00
ATOM	32110	2HG1	VAL	2146	83.516	105.522	85.541	0.00	0.00
ATOM	32111	3HG1	VAL	2146	84.274	103.949	85.918	0.00	0.00
ATOM	32112	CG2	VAL	2146	86.038	104.821	87.750	0.00	0.00
ATOM	32113	1HG2	VAL	2146	85.297	104.683	88.537	0.00	0.00
ATOM	32114	2HG2	VAL	2146	86.321	103.848	87.348	0.00	0.00
ATOM	32115	3HG2	VAL	2146	86.924	105.308	88.159	0.00	0.00
ATOM	32116	C	VAL	2146	85.840	106.323	84.200	0.00	0.00
ATOM	32117	O	VAL	2146	85.789	105.510	83.274	0.00	0.00
ATOM	32118	N	LYS	2147	85.389	107.596	83.968	0.00	0.00
ATOM	32119	H	LYS	2147	85.548	108.200	84.762	0.00	0.00
ATOM	32120	CA	LYS	2147	84.885	108.170	82.701	0.00	0.00
ATOM	32121	HA	LYS	2147	83.995	107.570	82.509	0.00	0.00
ATOM	32122	CB	LYS	2147	84.470	109.616	82.852	0.00	0.00
ATOM	32123	HB2	LYS	2147	85.190	110.114	83.501	0.00	0.00
ATOM	32124	HB3	LYS	2147	84.456	110.049	81.852	0.00	0.00
ATOM	32125	CG	LYS	2147	83.104	109.810	83.539	0.00	0.00
ATOM	32126	HG2	LYS	2147	82.228	109.551	82.943	0.00	0.00
ATOM	32127	HG3	LYS	2147	83.137	109.038	84.308	0.00	0.00
ATOM	32128	CD	LYS	2147	82.963	111.137	84.176	0.00	0.00

ATOM	32129	HD2	LYS	2147	83.833	111.311	84.811	0.00	0.00
ATOM	32130	HD3	LYS	2147	82.660	111.849	83.409	0.00	0.00
ATOM	32131	CE	LYS	2147	81.741	111.138	85.173	0.00	0.00
ATOM	32132	HE2	LYS	2147	80.863	110.899	84.573	0.00	0.00
ATOM	32133	HE3	LYS	2147	81.972	110.406	85.946	0.00	0.00
ATOM	32134	NZ	LYS	2147	81.479	112.438	85.839	0.00	0.00
ATOM	32135	HZ1	LYS	2147	81.175	113.126	85.165	0.00	0.00
ATOM	32136	HZ2	LYS	2147	80.823	112.427	86.608	0.00	0.00
ATOM	32137	HZ3	LYS	2147	82.303	112.767	86.321	0.00	0.00
ATOM	32138	C	LYS	2147	85.685	107.934	81.454	0.00	0.00
ATOM	32139	O	LYS	2147	85.222	107.845	80.303	0.00	0.00
ATOM	32140	N	ARG	2148	87.020	107.656	81.657	0.00	0.00
ATOM	32141	H	ARG	2148	87.349	107.724	82.609	0.00	0.00
ATOM	32142	CA	ARG	2148	88.024	107.573	80.595	0.00	0.00
ATOM	32143	HA	ARG	2148	87.577	108.047	79.721	0.00	0.00
ATOM	32144	CB	ARG	2148	89.370	108.156	81.143	0.00	0.00
ATOM	32145	HB2	ARG	2148	89.193	109.200	81.399	0.00	0.00
ATOM	32146	HB3	ARG	2148	89.665	107.639	82.056	0.00	0.00
ATOM	32147	CG	ARG	2148	90.553	108.075	80.158	0.00	0.00
ATOM	32148	HG2	ARG	2148	90.986	107.076	80.200	0.00	0.00
ATOM	32149	HG3	ARG	2148	90.266	108.208	79.115	0.00	0.00
ATOM	32150	CD	ARG	2148	91.603	109.006	80.569	0.00	0.00
ATOM	32151	HD2	ARG	2148	91.803	108.921	81.637	0.00	0.00
ATOM	32152	HD3	ARG	2148	92.454	108.634	79.998	0.00	0.00
ATOM	32153	NE	ARG	2148	91.325	110.443	80.266	0.00	0.00
ATOM	32154	HE	ARG	2148	90.720	110.629	79.479	0.00	0.00



ATOM	32155	CZ	ARG	2148	91.953	111.521	80.802	0.00	0.00
ATOM	32156	NH1	ARG	2148	93.029	111.430	81.505	0.00	0.00
ATOM	32157	1HH1	ARG	2148	93.555	112.256	81.755	0.00	0.00
ATOM	32158	2HH1	ARG	2148	93.668	110.673	81.306	0.00	0.00
ATOM	32159	NH2	ARG	2148	91.530	112.750	80.662	0.00	0.00
ATOM	32160	1HH2	ARG	2148	92.122	113.417	81.136	0.00	0.00
ATOM	32161	2HH2	ARG	2148	90.724	113.074	80.147	0.00	0.00
ATOM	32162	C	ARG	2148	88.121	106.118	80.079	0.00	0.00
ATOM	32163	O	ARG	2148	88.431	105.957	78.878	0.00	0.00
ATOM	32164	N	TYR	2149	87.713	105.170	80.985	0.00	0.00
ATOM	32165	H	TYR	2149	87.513	105.521	81.911	0.00	0.00
ATOM	32166	CA	TYR	2149	87.763	103.710	80.805	0.00	0.00
ATOM	32167	HA	TYR	2149	88.515	103.618	80.021	0.00	0.00
ATOM	32168	CB	TYR	2149	88.330	103.118	82.064	0.00	0.00
ATOM	32169	HB2	TYR	2149	87.736	103.542	82.873	0.00	0.00
ATOM	32170	HB3	TYR	2149	88.368	102.028	82.076	0.00	0.00
ATOM	32171	CG	TYR	2149	89.829	103.460	82.127	0.00	0.00
ATOM	32172	CD1	TYR	2149	90.366	104.605	82.596	0.00	0.00
ATOM	32173	HD1	TYR	2149	89.630	105.346	82.870	0.00	0.00
ATOM	32174	CE1	TYR	2149	91.717	104.846	82.710	0.00	0.00
ATOM	32175	HE1	TYR	2149	92.108	105.752	83.147	0.00	0.00
ATOM	32176	CZ	TYR	2149	92.626	103.855	82.332	0.00	0.00
ATOM	32177	OH	TYR	2149	93.894	104.035	82.582	0.00	0.00
ATOM	32178	HH	TYR	2149	93.978	104.658	83.307	0.00	0.00
ATOM	32179	CE2	TYR	2149	92.162	102.703	81.708	0.00	0.00
ATOM	32180	HE2	TYR	2149	92.767	101.927	81.262	0.00	0.00

ATOM	32181	CD2	TYR	2149	90.781	102.480	81.671	0.00	0.00
ATOM	32182	HD2	TYR	2149	90.402	101.540	81.297	0.00	0.00
ATOM	32183	C	TYR	2149	86.447	103.101	80.377	0.00	0.00
ATOM	32184	O	TYR	2149	86.470	102.278	79.522	0.00	0.00
ATOM	32185	N	ILE	2150	85.357	103.536	80.947	0.00	0.00
ATOM	32186	H	ILE	2150	85.475	104.203	81.696	0.00	0.00
ATOM	32187	CA	ILE	2150	84.043	103.307	80.374	0.00	0.00
ATOM	32188	HA	ILE	2150	83.834	102.238	80.359	0.00	0.00
ATOM	32189	CB	ILE	2150	82.925	103.882	81.302	0.00	0.00
ATOM	32190	HB	ILE	2150	82.870	103.689	82.373	0.00	0.00
ATOM	32191	CG2	ILE	2150	82.772	105.463	81.216	0.00	0.00
ATOM	32192	1HG2	ILE	2150	83.762	105.873	81.412	0.00	0.00
ATOM	32193	2HG2	ILE	2150	82.324	105.762	80.269	0.00	0.00
ATOM	32194	3HG2	ILE	2150	82.133	105.860	82.005	0.00	0.00
ATOM	32195	CG1	ILE	2150	81.551	103.462	80.873	0.00	0.00
ATOM	32196	2HG1	ILE	2150	80.820	104.066	81.410	0.00	0.00
ATOM	32197	3HG1	ILE	2150	81.347	103.657	79.820	0.00	0.00
ATOM	32198	CD1	ILE	2150	81.299	101.974	81.069	0.00	0.00
ATOM	32199	1HD1	ILE	2150	81.368	101.610	82.095	0.00	0.00
ATOM	32200	2HD1	ILE	2150	80.298	101.733	80.712	0.00	0.00
ATOM	32201	3HD1	ILE	2150	81.954	101.319	80.494	0.00	0.00
ATOM	32202	C	ILE	2150	83.896	103.731	78.922	0.00	0.00
ATOM	32203	O	ILE	2150	83.263	103.035	78.159	0.00	0.00
ATOM	32204	N	ALA	2151	84.364	104.967	78.552	0.00	0.00
ATOM	32205	H	ALA	2151	84.620	105.720	79.175	0.00	0.00
ATOM	32206	CA	ALA	2151	84.158	105.353	77.112	0.00	0.00

ATOM	32207	HA	ALA	2151	83.121	105.148	76.849	0.00	0.00
ATOM	32208	CB	ALA	2151	84.450	106.861	76.907	0.00	0.00
ATOM	32209	HB1	ALA	2151	84.529	107.115	75.850	0.00	0.00
ATOM	32210	HB2	ALA	2151	83.740	107.449	77.489	0.00	0.00
ATOM	32211	HB3	ALA	2151	85.423	107.148	77.304	0.00	0.00
ATOM	32212	C	ALA	2151	84.827	104.451	76.037	0.00	0.00
ATOM	32213	O	ALA	2151	84.422	104.365	74.900	0.00	0.00
ATOM	32214	N	LYS	2152	85.933	103.763	76.438	0.00	0.00
ATOM	32215	H	LYS	2152	86.194	103.958	77.394	0.00	0.00
ATOM	32216	CA	LYS	2152	86.846	103.104	75.427	0.00	0.00
ATOM	32217	HA	LYS	2152	87.240	103.831	74.717	0.00	0.00
ATOM	32218	CB	LYS	2152	88.086	102.489	76.158	0.00	0.00
ATOM	32219	HB2	LYS	2152	87.812	101.758	76.919	0.00	0.00
ATOM	32220	HB3	LYS	2152	88.816	102.141	75.426	0.00	0.00
ATOM	32221	CG	LYS	2152	88.876	103.585	76.857	0.00	0.00
ATOM	32222	HG2	LYS	2152	88.930	104.479	76.235	0.00	0.00
ATOM	32223	HG3	LYS	2152	88.369	103.821	77.793	0.00	0.00
ATOM	32224	CD	LYS	2152	90.245	103.035	77.298	0.00	0.00
ATOM	32225	HD2	LYS	2152	90.036	102.204	77.972	0.00	0.00
ATOM	32226	HD3	LYS	2152	90.788	102.671	76.425	0.00	0.00
ATOM	32227	CE	LYS	2152	91.010	104.030	78.182	0.00	0.00
ATOM	32228	HE2	LYS	2152	90.285	104.331	78.939	0.00	0.00
ATOM	32229	HE3	LYS	2152	91.812	103.591	78.775	0.00	0.00
ATOM	32230	NZ	LYS	2152	91.582	105.227	77.522	0.00	0.00
ATOM	32231	HZ1	LYS	2152	91.930	105.906	78.183	0.00	0.00
ATOM	32232	HZ2	LYS	2152	92.282	104.930	76.857	0.00	0.00

ATOM	32233	HZ3	LYS	2152	90.896	105.729	76.977	0.00	0.00
ATOM	32234	C	LYS	2152	86.181	101.971	74.636	0.00	0.00
ATOM	32235	O	LYS	2152	86.654	101.641	73.576	0.00	0.00
ATOM	32236	N	TYR	2153	85.208	101.334	75.304	0.00	0.00
ATOM	32237	H	TYR	2153	84.958	101.641	76.233	0.00	0.00
ATOM	32238	CA	TYR	2153	84.542	100.057	74.867	0.00	0.00
ATOM	32239	HA	TYR	2153	84.966	99.714	73.924	0.00	0.00
ATOM	32240	CB	TYR	2153	84.982	98.955	75.793	0.00	0.00
ATOM	32241	HB2	TYR	2153	84.486	98.038	75.474	0.00	0.00
ATOM	32242	HB3	TYR	2153	86.065	98.956	75.672	0.00	0.00
ATOM	32243	CG	TYR	2153	84.576	99.006	77.256	0.00	0.00
ATOM	32244	CD1	TYR	2153	83.266	98.553	77.593	0.00	0.00
ATOM	32245	HD1	TYR	2153	82.532	98.353	76.826	0.00	0.00
ATOM	32246	CE1	TYR	2153	82.755	98.554	78.933	0.00	0.00
ATOM	32247	HE1	TYR	2153	81.732	98.250	79.099	0.00	0.00
ATOM	32248	CZ	TYR	2153	83.583	98.957	79.939	0.00	0.00
ATOM	32249	OH	TYR	2153	83.066	98.909	81.182	0.00	0.00
ATOM	32250	HH	TYR	2153	82.306	98.330	81.279	0.00	0.00
ATOM	32251	CE2	TYR	2153	84.857	99.535	79.655	0.00	0.00
ATOM	32252	HE2	TYR	2153	85.482	99.866	80.471	0.00	0.00
ATOM	32253	CD2	TYR	2153	85.349	99.609	78.305	0.00	0.00
ATOM	32254	HD2	TYR	2153	86.240	100.173	78.073	0.00	0.00
ATOM	32255	C	TYR	2153	83.078	100.256	74.605	0.00	0.00
ATOM	32256	O	TYR	2153	82.321	99.306	74.693	0.00	0.00
ATOM	32257	N	THR	2154	82.590	101.508	74.444	0.00	0.00
ATOM	32258	H	THR	2154	83.252	102.263	74.341	0.00	0.00

ATOM	32259	CA	THR	2154	81.167	101.808	74.427	0.00	0.00
ATOM	32260	HA	THR	2154	80.618	100.923	74.105	0.00	0.00
ATOM	32261	CB	THR	2154	80.689	102.105	75.874	0.00	0.00
ATOM	32262	HB	THR	2154	79.616	102.206	75.713	0.00	0.00
ATOM	32263	CG2	THR	2154	80.991	101.042	76.863	0.00	0.00
ATOM	32264	1HG2	THR	2154	80.461	100.153	76.523	0.00	0.00
ATOM	32265	2HG2	THR	2154	82.058	100.842	76.963	0.00	0.00
ATOM	32266	3HG2	THR	2154	80.498	101.244	77.814	0.00	0.00
ATOM	32267	OG1	THR	2154	81.195	103.323	76.256	0.00	0.00
ATOM	32268	HG1	THR	2154	81.712	103.276	77.063	0.00	0.00
ATOM	32269	C	THR	2154	80.919	102.890	73.394	0.00	0.00
ATOM	32270	O	THR	2154	80.665	102.530	72.271	0.00	0.00
ATOM	32271	N	ILE	2155	80.975	104.205	73.749	0.00	0.00
ATOM	32272	H	ILE	2155	80.924	104.354	74.746	0.00	0.00
ATOM	32273	CA	ILE	2155	80.601	105.303	72.861	0.00	0.00
ATOM	32274	HA	ILE	2155	79.718	104.943	72.332	0.00	0.00
ATOM	32275	CB	ILE	2155	80.193	106.553	73.768	0.00	0.00
ATOM	32276	HB	ILE	2155	79.288	106.312	74.326	0.00	0.00
ATOM	32277	CG2	ILE	2155	81.300	106.975	74.748	0.00	0.00
ATOM	32278	1HG2	ILE	2155	81.474	106.322	75.604	0.00	0.00
ATOM	32279	2HG2	ILE	2155	82.257	107.159	74.260	0.00	0.00
ATOM	32280	3HG2	ILE	2155	80.997	107.939	75.158	0.00	0.00
ATOM	32281	CG1	ILE	2155	79.835	107.713	72.801	0.00	0.00
ATOM	32282	2HG1	ILE	2155	79.538	108.540	73.446	0.00	0.00
ATOM	32283	3HG1	ILE	2155	80.667	108.175	72.269	0.00	0.00
ATOM	32284	CD1	ILE	2155	78.662	107.521	71.902	0.00	0.00

ATOM	32285	1HD1	ILE	2155	78.429	108.512	71.512	0.00	0.00
ATOM	32286	2HD1	ILE	2155	78.822	106.833	71.073	0.00	0.00
ATOM	32287	3HD1	ILE	2155	77.869	107.125	72.536	0.00	0.00
ATOM	32288	C	ILE	2155	81.739	105.619	71.910	0.00	0.00
ATOM	32289	O	ILE	2155	81.479	105.932	70.752	0.00	0.00
ATOM	32290	N	ASN	2156	83.049	105.578	72.288	0.00	0.00
ATOM	32291	H	ASN	2156	83.271	105.396	73.256	0.00	0.00
ATOM	32292	CA	ASN	2156	84.143	105.812	71.376	0.00	0.00
ATOM	32293	HA	ASN	2156	83.951	106.821	71.010	0.00	0.00
ATOM	32294	CB	ASN	2156	85.494	105.807	72.142	0.00	0.00
ATOM	32295	HB2	ASN	2156	85.664	104.963	72.810	0.00	0.00
ATOM	32296	HB3	ASN	2156	86.267	105.953	71.388	0.00	0.00
ATOM	32297	CG	ASN	2156	85.726	106.955	73.054	0.00	0.00
ATOM	32298	OD1	ASN	2156	84.958	107.925	73.355	0.00	0.00
ATOM	32299	ND2	ASN	2156	86.863	106.891	73.726	0.00	0.00
ATOM	32300	1HD2	ASN	2156	86.859	107.637	74.406	0.00	0.00
ATOM	32301	2HD2	ASN	2156	87.639	106.270	73.548	0.00	0.00
ATOM	32302	C	ASN	2156	84.211	104.834	70.181	0.00	0.00
ATOM	32303	O	ASN	2156	84.320	105.316	69.041	0.00	0.00
ATOM	32304	N	PRO	2157	84.175	103.527	70.397	0.00	0.00
ATOM	32305	CD	PRO	2157	84.132	102.804	71.643	0.00	0.00
ATOM	32306	HD2	PRO	2157	83.378	103.142	72.354	0.00	0.00
ATOM	32307	HD3	PRO	2157	85.149	102.913	72.021	0.00	0.00
ATOM	32308	CG	PRO	2157	83.790	101.412	71.329	0.00	0.00
ATOM	32309	HG2	PRO	2157	84.343	100.721	71.965	0.00	0.00
ATOM	32310	HG3	PRO	2157	82.709	101.348	71.205	0.00	0.00

ATOM 32311	CB PRO 2157	84.406	101.263	69.934	0.00	0.00
ATOM 32312	HB2 PRO 2157	85.473	101.188	70.142	0.00	0.00
ATOM 32313	HB3 PRO 2157	84.044	100.453	69.301	0.00	0.00
ATOM 32314	CA PRO 2157	84.148	102.591	69.278	0.00	0.00
ATOM 32315	HA PRO 2157	85.019	102.718	68.635	0.00	0.00
ATOM 32316	C PRO 2157	82.877	102.623	68.435	0.00	0.00
ATOM 32317	O PRO 2157	82.890	102.355	67.206	0.00	0.00
ATOM 32318	N ALA 2158	81.774	103.071	69.070	0.00	0.00
ATOM 32319	H ALA 2158	81.820	103.471	69.997	0.00	0.00
ATOM 32320	CA ALA 2158	80.567	103.497	68.376	0.00	0.00
ATOM 32321	HA ALA 2158	80.190	102.654	67.798	0.00	0.00
ATOM 32322	CB ALA 2158	79.419	103.811	69.382	0.00	0.00
ATOM 32323	HB1 ALA 2158	79.577	104.630	70.083	0.00	0.00
ATOM 32324	HB2 ALA 2158	78.506	103.954	68.804	0.00	0.00
ATOM 32325	HB3 ALA 2158	79.362	102.949	70.047	0.00	0.00
ATOM 32326	C ALA 2158	80.823	104.700	67.414	0.00	0.00
ATOM 32327	O ALA 2158	80.387	104.633	66.270	0.00	0.00
ATOM 32328	N LEU 2159	81.399	105.759	67.885	0.00	0.00
ATOM 32329	H LEU 2159	81.715	105.846	68.841	0.00	0.00
ATOM 32330	CA LEU 2159	81.730	106.859	67.037	0.00	0.00
ATOM 32331	HA LEU 2159	80.793	107.080	66.525	0.00	0.00
ATOM 32332	CB LEU 2159	82.233	108.016	67.912	0.00	0.00
ATOM 32333	HB2 LEU 2159	83.107	107.673	68.465	0.00	0.00
ATOM 32334	HB3 LEU 2159	82.493	108.825	67.230	0.00	0.00
ATOM 32335	CG LEU 2159	81.297	108.682	68.904	0.00	0.00
ATOM 32336	HG LEU 2159	80.757	107.927	69.476	0.00	0.00

ATOM	32337	CD1	LEU	2159	82.067	109.402	70.049	0.00	0.00
ATOM	32338	1HD1	LEU	2159	81.378	109.858	70.760	0.00	0.00
ATOM	32339	2HD1	LEU	2159	82.773	108.823	70.644	0.00	0.00
ATOM	32340	3HD1	LEU	2159	82.618	110.210	69.569	0.00	0.00
ATOM	32341	CD2	LEU	2159	80.329	109.652	68.289	0.00	0.00
ATOM	32342	1HD2	LEU	2159	80.876	110.568	68.065	0.00	0.00
ATOM	32343	2HD2	LEU	2159	79.969	109.235	67.348	0.00	0.00
ATOM	32344	3HD2	LEU	2159	79.493	109.995	68.898	0.00	0.00
ATOM	32345	C	LEU	2159	82.737	106.456	65.957	0.00	0.00
ATOM	32346	O	LEU	2159	82.664	106.970	64.837	0.00	0.00
ATOM	32347	N	THR	2160	83.674	105.542	66.231	0.00	0.00
ATOM	32348	H	THR	2160	83.688	105.059	67.118	0.00	0.00
ATOM	32349	CA	THR	2160	84.722	105.192	65.321	0.00	0.00
ATOM	32350	HA	THR	2160	85.080	106.130	64.897	0.00	0.00
ATOM	32351	CB	THR	2160	85.777	104.422	66.065	0.00	0.00
ATOM	32352	HB	THR	2160	85.366	103.504	66.485	0.00	0.00
ATOM	32353	CG2	THR	2160	86.882	103.913	65.172	0.00	0.00
ATOM	32354	1HG2	THR	2160	86.712	103.288	64.295	0.00	0.00
ATOM	32355	2HG2	THR	2160	87.277	104.856	64.794	0.00	0.00
ATOM	32356	3HG2	THR	2160	87.608	103.403	65.806	0.00	0.00
ATOM	32357	OG1	THR	2160	86.405	105.176	67.134	0.00	0.00
ATOM	32358	HG1	THR	2160	85.712	105.391	67.762	0.00	0.00
ATOM	32359	C	THR	2160	84.133	104.466	64.026	0.00	0.00
ATOM	32360	O	THR	2160	84.686	104.647	62.949	0.00	0.00
ATOM	32361	N	HID	2161	83.066	103.708	64.217	0.00	0.00
ATOM	32362	H	HID	2161	82.624	103.702	65.125	0.00	0.00



ATOM	32363	CA	HID	2161	82.474	102.900	63.139	0.00	0.00
ATOM	32364	HA	HID	2161	83.145	102.786	62.287	0.00	0.00
ATOM	32365	CB	HID	2161	82.360	101.480	63.687	0.00	0.00
ATOM	32366	HB2	HID	2161	81.859	101.507	64.654	0.00	0.00
ATOM	32367	HB3	HID	2161	81.694	100.927	63.026	0.00	0.00
ATOM	32368	CG	HID	2161	83.708	100.824	63.879	0.00	0.00
ATOM	32369	ND1	HID	2161	84.470	100.828	65.049	0.00	0.00
ATOM	32370	HD1	HID	2161	84.184	101.197	65.945	0.00	0.00
ATOM	32371	CE1	HID	2161	85.708	100.470	64.747	0.00	0.00
ATOM	32372	HE1	HID	2161	86.564	100.752	65.342	0.00	0.00
ATOM	32373	NE2	HID	2161	85.824	100.250	63.427	0.00	0.00
ATOM	32374	CD2	HID	2161	84.487	100.363	62.908	0.00	0.00
ATOM	32375	HD2	HID	2161	84.270	100.417	61.852	0.00	0.00
ATOM	32376	C	HID	2161	81.094	103.368	62.702	0.00	0.00
ATOM	32377	O	HID	2161	80.417	102.810	61.841	0.00	0.00
ATOM	32378	N	GLY	2162	80.767	104.581	63.243	0.00	0.00
ATOM	32379	H	GLY	2162	81.422	104.980	63.901	0.00	0.00
ATOM	32380	CA	GLY	2162	79.550	105.363	62.776	0.00	0.00
ATOM	32381	HA2	GLY	2162	79.615	106.315	63.303	0.00	0.00
ATOM	32382	HA3	GLY	2162	79.538	105.390	61.687	0.00	0.00
ATOM	32383	C	GLY	2162	78.190	104.831	63.345	0.00	0.00
ATOM	32384	O	GLY	2162	77.169	105.017	62.765	0.00	0.00
ATOM	32385	N	ILE	2163	78.167	104.030	64.409	0.00	0.00
ATOM	32386	H	ILE	2163	79.061	103.966	64.875	0.00	0.00
ATOM	32387	CA	ILE	2163	77.031	103.312	64.989	0.00	0.00
ATOM	32388	HA	ILE	2163	76.186	103.389	64.304	0.00	0.00

ATOM	32389	CB	ILE	2163	77.363	101.810	65.113	0.00	0.00
ATOM	32390	HB	ILE	2163	76.442	101.306	65.406	0.00	0.00
ATOM	32391	CG2	ILE	2163	77.767	101.236	63.723	0.00	0.00
ATOM	32392	1HG2	ILE	2163	76.920	101.268	63.038	0.00	0.00
ATOM	32393	2HG2	ILE	2163	78.703	101.704	63.418	0.00	0.00
ATOM	32394	3HG2	ILE	2163	77.896	100.154	63.687	0.00	0.00
ATOM	32395	CG1	ILE	2163	78.489	101.583	66.084	0.00	0.00
ATOM	32396	2HG1	ILE	2163	79.322	102.253	65.868	0.00	0.00
ATOM	32397	3HG1	ILE	2163	78.193	101.878	67.091	0.00	0.00
ATOM	32398	CD1	ILE	2163	79.053	100.127	66.177	0.00	0.00
ATOM	32399	1HD1	ILE	2163	79.713	99.953	67.027	0.00	0.00
ATOM	32400	2HD1	ILE	2163	78.256	99.391	66.286	0.00	0.00
ATOM	32401	3HD1	ILE	2163	79.632	99.975	65.266	0.00	0.00
ATOM	32402	C	ILE	2163	76.523	103.977	66.293	0.00	0.00
ATOM	32403	O	ILE	2163	75.589	103.533	66.940	0.00	0.00
ATOM	32404	N	ALA	2164	76.999	105.188	66.677	0.00	0.00
ATOM	32405	H	ALA	2164	77.428	105.736	65.946	0.00	0.00
ATOM	32406	CA	ALA	2164	76.697	105.906	67.974	0.00	0.00
ATOM	32407	HA	ALA	2164	76.758	105.191	68.794	0.00	0.00
ATOM	32408	CB	ALA	2164	77.768	107.056	67.972	0.00	0.00
ATOM	32409	HB1	ALA	2164	77.598	107.682	68.848	0.00	0.00
ATOM	32410	HB2	ALA	2164	78.752	106.588	67.928	0.00	0.00
ATOM	32411	HB3	ALA	2164	77.715	107.664	67.069	0.00	0.00
ATOM	32412	C	ALA	2164	75.264	106.639	68.085	0.00	0.00
ATOM	32413	O	ALA	2164	74.916	107.232	69.072	0.00	0.00
ATOM	32414	N	HIE	2165	74.456	106.553	67.020	0.00	0.00

ATOM	32415	H	HIE	2165	74.825	106.107	66.192	0.00	0.00
ATOM	32416	CA	HIE	2165	73.043	106.946	67.041	0.00	0.00
ATOM	32417	HA	HIE	2165	72.870	107.744	67.764	0.00	0.00
ATOM	32418	CB	HIE	2165	72.634	107.544	65.660	0.00	0.00
ATOM	32419	HB2	HIE	2165	71.608	107.896	65.769	0.00	0.00
ATOM	32420	HB3	HIE	2165	73.203	108.462	65.512	0.00	0.00
ATOM	32421	CG	HIE	2165	72.820	106.674	64.465	0.00	0.00
ATOM	32422	ND1	HIE	2165	74.091	106.384	63.871	0.00	0.00
ATOM	32423	CE1	HIE	2165	73.796	105.442	62.938	0.00	0.00
ATOM	32424	HE1	HIE	2165	74.496	104.904	62.315	0.00	0.00
ATOM	32425	NE2	HIE	2165	72.460	105.153	62.884	0.00	0.00
ATOM	32426	HE2	HIE	2165	72.046	104.495	62.239	0.00	0.00
ATOM	32427	CD2	HIE	2165	71.817	105.905	63.875	0.00	0.00
ATOM	32428	HD2	HIE	2165	70.769	105.883	64.133	0.00	0.00
ATOM	32429	C	HIE	2165	72.119	105.822	67.614	0.00	0.00
ATOM	32430	O	HIE	2165	71.037	106.141	68.170	0.00	0.00
ATOM	32431	N	GLU	2166	72.500	104.554	67.543	0.00	0.00
ATOM	32432	H	GLU	2166	73.295	104.313	66.969	0.00	0.00
ATOM	32433	CA	GLU	2166	71.695	103.513	68.105	0.00	0.00
ATOM	32434	HA	GLU	2166	70.708	103.921	68.323	0.00	0.00
ATOM	32435	CB	GLU	2166	71.459	102.265	67.256	0.00	0.00
ATOM	32436	HB2	GLU	2166	72.314	101.600	67.379	0.00	0.00
ATOM	32437	HB3	GLU	2166	70.542	101.883	67.703	0.00	0.00
ATOM	32438	CG	GLU	2166	71.390	102.508	65.730	0.00	0.00
ATOM	32439	HG2	GLU	2166	72.190	103.209	65.491	0.00	0.00
ATOM	32440	HG3	GLU	2166	71.577	101.562	65.222	0.00	0.00

ATOM	32441	CD	GLU	2166	70.069	103.183	65.264	0.00	0.00
ATOM	32442	OE1	GLU	2166	69.638	102.926	64.106	0.00	0.00
ATOM	32443	OE2	GLU	2166	69.327	103.845	66.053	0.00	0.00
ATOM	32444	C	GLU	2166	72.211	103.075	69.423	0.00	0.00
ATOM	32445	O	GLU	2166	71.428	102.712	70.266	0.00	0.00
ATOM	32446	N	VAL	2167	73.549	103.156	69.668	0.00	0.00
ATOM	32447	H	VAL	2167	74.151	103.349	68.880	0.00	0.00
ATOM	32448	CA	VAL	2167	74.125	102.417	70.864	0.00	0.00
ATOM	32449	HA	VAL	2167	73.342	102.381	71.622	0.00	0.00
ATOM	32450	CB	VAL	2167	74.495	100.994	70.497	0.00	0.00
ATOM	32451	HB	VAL	2167	75.115	100.561	71.282	0.00	0.00
ATOM	32452	CG1	VAL	2167	73.257	100.030	70.399	0.00	0.00
ATOM	32453	1HG1	VAL	2167	72.897	100.015	71.428	0.00	0.00
ATOM	32454	2HG1	VAL	2167	72.412	100.377	69.804	0.00	0.00
ATOM	32455	3HG1	VAL	2167	73.511	98.995	70.171	0.00	0.00
ATOM	32456	CG2	VAL	2167	75.306	100.885	69.230	0.00	0.00
ATOM	32457	1HG2	VAL	2167	75.703	99.870	69.250	0.00	0.00
ATOM	32458	2HG2	VAL	2167	74.668	101.014	68.356	0.00	0.00
ATOM	32459	3HG2	VAL	2167	76.080	101.648	69.322	0.00	0.00
ATOM	32460	C	VAL	2167	75.317	103.235	71.405	0.00	0.00
ATOM	32461	O	VAL	2167	75.716	104.327	70.875	0.00	0.00
ATOM	32462	N	GLY	2168	75.937	102.672	72.447	0.00	0.00
ATOM	32463	H	GLY	2168	75.483	101.830	72.771	0.00	0.00
ATOM	32464	CA	GLY	2168	77.255	103.099	72.935	0.00	0.00
ATOM	32465	HA2	GLY	2168	77.791	102.157	73.049	0.00	0.00
ATOM	32466	HA3	GLY	2168	77.852	103.665	72.221	0.00	0.00

ATOM	32467	C	GLY	2168	77.163	103.751	74.293	0.00	0.00
ATOM	32468	O	GLY	2168	78.213	103.966	74.966	0.00	0.00
ATOM	32469	N	SER	2169	75.961	103.995	74.775	0.00	0.00
ATOM	32470	H	SER	2169	75.157	103.838	74.184	0.00	0.00
ATOM	32471	CA	SER	2169	75.665	104.660	76.114	0.00	0.00
ATOM	32472	HA	SER	2169	76.238	104.207	76.923	0.00	0.00
ATOM	32473	CB	SER	2169	76.105	106.180	75.976	0.00	0.00
ATOM	32474	HB2	SER	2169	75.865	106.859	76.794	0.00	0.00
ATOM	32475	HB3	SER	2169	77.177	106.258	75.795	0.00	0.00
ATOM	32476	OG	SER	2169	75.331	106.615	74.885	0.00	0.00
ATOM	32477	HG	SER	2169	75.505	107.554	74.983	0.00	0.00
ATOM	32478	C	SER	2169	74.237	104.708	76.636	0.00	0.00
ATOM	32479	O	SER	2169	73.226	104.428	75.979	0.00	0.00
ATOM	32480	N	ILE	2170	74.121	105.016	77.935	0.00	0.00
ATOM	32481	H	ILE	2170	74.927	105.272	78.487	0.00	0.00
ATOM	32482	CA	ILE	2170	72.742	105.072	78.639	0.00	0.00
ATOM	32483	HA	ILE	2170	72.079	104.428	78.061	0.00	0.00
ATOM	32484	CB	ILE	2170	72.929	104.610	80.130	0.00	0.00
ATOM	32485	HB	ILE	2170	73.598	105.176	80.779	0.00	0.00
ATOM	32486	CG2	ILE	2170	71.522	104.429	80.775	0.00	0.00
ATOM	32487	1HG2	ILE	2170	70.928	105.338	80.681	0.00	0.00
ATOM	32488	2HG2	ILE	2170	71.029	103.537	80.389	0.00	0.00
ATOM	32489	3HG2	ILE	2170	71.543	104.244	81.849	0.00	0.00
ATOM	32490	CG1	ILE	2170	73.465	103.118	80.052	0.00	0.00
ATOM	32491	2HG1	ILE	2170	72.792	102.429	79.542	0.00	0.00
ATOM	32492	3HG1	ILE	2170	74.424	103.133	79.535	0.00	0.00

ATOM	32493	CD1	ILE	2170	73.882	102.700	81.506	0.00	0.00
ATOM	32494	1HD1	ILE	2170	74.302	101.694	81.506	0.00	0.00
ATOM	32495	2HD1	ILE	2170	74.692	103.288	81.938	0.00	0.00
ATOM	32496	3HD1	ILE	2170	73.088	102.555	82.239	0.00	0.00
ATOM	32497	C	ILE	2170	72.129	106.446	78.375	0.00	0.00
ATOM	32498	O	ILE	2170	72.169	107.327	79.270	0.00	0.00
ATOM	32499	N	GLU	2171	71.675	106.598	77.171	0.00	0.00
ATOM	32500	H	GLU	2171	71.981	105.897	76.511	0.00	0.00
ATOM	32501	CA	GLU	2171	71.085	107.829	76.582	0.00	0.00
ATOM	32502	HA	GLU	2171	70.799	108.490	77.401	0.00	0.00
ATOM	32503	CB	GLU	2171	72.178	108.533	75.693	0.00	0.00
ATOM	32504	HB2	GLU	2171	72.602	107.867	74.941	0.00	0.00
ATOM	32505	HB3	GLU	2171	71.622	109.313	75.172	0.00	0.00
ATOM	32506	CG	GLU	2171	73.302	109.058	76.560	0.00	0.00
ATOM	32507	HG2	GLU	2171	72.859	109.689	77.331	0.00	0.00
ATOM	32508	HG3	GLU	2171	73.856	108.222	76.987	0.00	0.00
ATOM	32509	CD	GLU	2171	74.369	109.775	75.761	0.00	0.00
ATOM	32510	OE1	GLU	2171	74.070	110.940	75.382	0.00	0.00
ATOM	32511	OE2	GLU	2171	75.497	109.204	75.373	0.00	0.00
ATOM	32512	C	GLU	2171	69.743	107.619	75.926	0.00	0.00
ATOM	32513	O	GLU	2171	69.506	106.628	75.329	0.00	0.00
ATOM	32514	N	VAL	2172	68.762	108.530	76.086	0.00	0.00
ATOM	32515	H	VAL	2172	68.984	109.396	76.555	0.00	0.00
ATOM	32516	CA	VAL	2172	67.418	108.351	75.554	0.00	0.00
ATOM	32517	HA	VAL	2172	67.167	107.320	75.801	0.00	0.00
ATOM	32518	CB	VAL	2172	66.358	109.235	76.109	0.00	0.00

ATOM	32519	HB	VAL	2172	65.472	108.954	75.540	0.00	0.00
ATOM	32520	CG1	VAL	2172	66.085	108.952	77.585	0.00	0.00
ATOM	32521	1HG1	VAL	2172	67.094	109.020	77.993	0.00	0.00
ATOM	32522	2HG1	VAL	2172	65.384	109.659	78.028	0.00	0.00
ATOM	32523	3HG1	VAL	2172	65.710	107.949	77.788	0.00	0.00
ATOM	32524	CG2	VAL	2172	66.653	110.718	75.845	0.00	0.00
ATOM	32525	1HG2	VAL	2172	65.929	111.307	76.408	0.00	0.00
ATOM	32526	2HG2	VAL	2172	67.671	110.978	76.135	0.00	0.00
ATOM	32527	3HG2	VAL	2172	66.552	110.891	74.774	0.00	0.00
ATOM	32528	C	VAL	2172	67.483	108.588	74.067	0.00	0.00
ATOM	32529	O	VAL	2172	68.265	109.364	73.471	0.00	0.00
ATOM	32530	N	GLY	2173	66.658	107.809	73.402	0.00	0.00
ATOM	32531	H	GLY	2173	65.973	107.347	73.983	0.00	0.00
ATOM	32532	CA	GLY	2173	66.640	107.577	71.922	0.00	0.00
ATOM	32533	HA2	GLY	2173	65.588	107.531	71.639	0.00	0.00
ATOM	32534	HA3	GLY	2173	66.988	108.507	71.473	0.00	0.00
ATOM	32535	C	GLY	2173	67.491	106.389	71.459	0.00	0.00
ATOM	32536	O	GLY	2173	67.234	105.893	70.331	0.00	0.00
ATOM	32537	N	LYS	2174	68.303	105.783	72.323	0.00	0.00
ATOM	32538	H	LYS	2174	68.489	106.212	73.218	0.00	0.00
ATOM	32539	CA	LYS	2174	69.156	104.628	72.084	0.00	0.00
ATOM	32540	HA	LYS	2174	69.514	104.573	71.056	0.00	0.00
ATOM	32541	CB	LYS	2174	70.507	104.875	72.757	0.00	0.00
ATOM	32542	HB2	LYS	2174	70.284	105.106	73.798	0.00	0.00
ATOM	32543	HB3	LYS	2174	70.928	103.872	72.688	0.00	0.00
ATOM	32544	CG	LYS	2174	71.382	105.978	72.150	0.00	0.00

ATOM	32545	HG2	LYS	2174	71.303	105.931	71.064	0.00	0.00
ATOM	32546	HG3	LYS	2174	71.025	106.867	72.669	0.00	0.00
ATOM	32547	CD	LYS	2174	72.793	105.871	72.519	0.00	0.00
ATOM	32548	HD2	LYS	2174	72.892	105.974	73.599	0.00	0.00
ATOM	32549	HD3	LYS	2174	73.092	104.878	72.185	0.00	0.00
ATOM	32550	CE	LYS	2174	73.533	107.007	71.915	0.00	0.00
ATOM	32551	HE2	LYS	2174	73.350	107.058	70.841	0.00	0.00
ATOM	32552	HE3	LYS	2174	73.299	107.969	72.372	0.00	0.00
ATOM	32553	NZ	LYS	2174	75.026	106.771	72.049	0.00	0.00
ATOM	32554	HZ1	LYS	2174	75.241	106.011	71.419	0.00	0.00
ATOM	32555	HZ2	LYS	2174	75.506	107.618	71.779	0.00	0.00
ATOM	32556	HZ3	LYS	2174	75.236	106.571	73.016	0.00	0.00
ATOM	32557	C	LYS	2174	68.546	103.283	72.311	0.00	0.00
ATOM	32558	O	LYS	2174	67.536	103.156	73.042	0.00	0.00
ATOM	32559	N	LEU	2175	69.228	102.238	71.793	0.00	0.00
ATOM	32560	H	LEU	2175	70.004	102.210	71.147	0.00	0.00
ATOM	32561	CA	LEU	2175	68.873	100.813	72.046	0.00	0.00
ATOM	32562	HA	LEU	2175	67.853	100.697	71.681	0.00	0.00
ATOM	32563	CB	LEU	2175	69.576	99.932	70.962	0.00	0.00
ATOM	32564	HB2	LEU	2175	69.316	100.287	69.965	0.00	0.00
ATOM	32565	HB3	LEU	2175	70.645	99.945	71.178	0.00	0.00
ATOM	32566	CG	LEU	2175	69.004	98.489	70.996	0.00	0.00
ATOM	32567	HG	LEU	2175	68.751	98.188	72.013	0.00	0.00
ATOM	32568	CD1	LEU	2175	67.759	98.337	70.085	0.00	0.00
ATOM	32569	1HD1	LEU	2175	66.927	98.951	70.428	0.00	0.00
ATOM	32570	2HD1	LEU	2175	68.040	98.470	69.040	0.00	0.00



ATOM	32571	3HD1	LEU	2175	67.334	97.340	70.202	0.00	0.00
ATOM	32572	CD2	LEU	2175	70.090	97.689	70.321	0.00	0.00
ATOM	32573	1HD2	LEU	2175	69.701	96.696	70.099	0.00	0.00
ATOM	32574	2HD2	LEU	2175	70.505	98.135	69.417	0.00	0.00
ATOM	32575	3HD2	LEU	2175	70.873	97.482	71.050	0.00	0.00
ATOM	32576	C	LEU	2175	69.111	100.366	73.542	0.00	0.00
ATOM	32577	O	LEU	2175	70.165	100.766	74.081	0.00	0.00
ATOM	32578	N	ALA	2176	68.109	99.717	74.163	0.00	0.00
ATOM	32579	H	ALA	2176	67.269	99.519	73.639	0.00	0.00
ATOM	32580	CA	ALA	2176	68.263	99.096	75.456	0.00	0.00
ATOM	32581	HA	ALA	2176	68.840	99.730	76.129	0.00	0.00
ATOM	32582	CB	ALA	2176	66.905	98.804	76.050	0.00	0.00
ATOM	32583	HB1	ALA	2176	66.996	98.495	77.091	0.00	0.00
ATOM	32584	HB2	ALA	2176	66.237	99.636	75.828	0.00	0.00
ATOM	32585	HB3	ALA	2176	66.525	97.919	75.539	0.00	0.00
ATOM	32586	C	ALA	2176	69.187	97.885	75.441	0.00	0.00
ATOM	32587	O	ALA	2176	68.718	96.775	75.748	0.00	0.00
ATOM	32588	N	ASP	2177	70.492	98.033	75.123	0.00	0.00
ATOM	32589	H	ASP	2177	70.883	98.917	74.831	0.00	0.00
ATOM	32590	CA	ASP	2177	71.562	97.025	75.430	0.00	0.00
ATOM	32591	HA	ASP	2177	71.090	96.051	75.553	0.00	0.00
ATOM	32592	CB	ASP	2177	72.590	96.763	74.403	0.00	0.00
ATOM	32593	HB2	ASP	2177	72.925	97.692	73.942	0.00	0.00
ATOM	32594	HB3	ASP	2177	73.446	96.231	74.818	0.00	0.00
ATOM	32595	CG	ASP	2177	72.177	95.860	73.203	0.00	0.00
ATOM	32596	OD1	ASP	2177	71.041	95.480	72.928	0.00	0.00

ATOM	32597	OD2	ASP	2177	73.146	95.499	72.515	0.00	0.00
ATOM	32598	C	ASP	2177	72.262	97.321	76.752	0.00	0.00
ATOM	32599	O	ASP	2177	72.965	98.346	76.823	0.00	0.00
ATOM	32600	N	LEU	2178	72.113	96.492	77.765	0.00	0.00
ATOM	32601	H	LEU	2178	71.700	95.580	77.631	0.00	0.00
ATOM	32602	CA	LEU	2178	72.405	96.842	79.131	0.00	0.00
ATOM	32603	HA	LEU	2178	73.198	97.587	79.206	0.00	0.00
ATOM	32604	CB	LEU	2178	71.180	97.378	79.766	0.00	0.00
ATOM	32605	HB2	LEU	2178	70.365	96.657	79.715	0.00	0.00
ATOM	32606	HB3	LEU	2178	71.328	97.491	80.840	0.00	0.00
ATOM	32607	CG	LEU	2178	70.559	98.785	79.378	0.00	0.00
ATOM	32608	HG	LEU	2178	70.454	98.777	78.293	0.00	0.00
ATOM	32609	CD1	LEU	2178	69.189	99.047	79.988	0.00	0.00
ATOM	32610	1HD1	LEU	2178	68.853	100.052	79.731	0.00	0.00
ATOM	32611	2HD1	LEU	2178	68.397	98.363	79.683	0.00	0.00
ATOM	32612	3HD1	LEU	2178	69.316	98.892	81.059	0.00	0.00
ATOM	32613	CD2	LEU	2178	71.544	99.957	79.698	0.00	0.00
ATOM	32614	1HD2	LEU	2178	71.926	100.158	80.699	0.00	0.00
ATOM	32615	2HD2	LEU	2178	72.431	99.836	79.076	0.00	0.00
ATOM	32616	3HD2	LEU	2178	71.006	100.847	79.371	0.00	0.00
ATOM	32617	C	LEU	2178	72.940	95.681	79.930	0.00	0.00
ATOM	32618	O	LEU	2178	72.313	94.612	79.681	0.00	0.00
ATOM	32619	N	VAL	2179	73.876	95.966	80.822	0.00	0.00
ATOM	32620	H	VAL	2179	74.338	96.860	80.737	0.00	0.00
ATOM	32621	CA	VAL	2179	74.616	94.899	81.649	0.00	0.00
ATOM	32622	HA	VAL	2179	74.109	93.936	81.594	0.00	0.00

ATOM 32623	CB VAL 2179	76.016	94.506	81.151	0.00	0.00
ATOM 32624	HB VAL 2179	76.726	95.301	81.377	0.00	0.00
ATOM 32625	CG1 VAL 2179	76.527	93.326	82.002	0.00	0.00
ATOM 32626	1HG1 VAL 2179	77.596	93.262	81.800	0.00	0.00
ATOM 32627	2HG1 VAL 2179	76.453	93.512	83.073	0.00	0.00
ATOM 32628	3HG1 VAL 2179	76.178	92.333	81.719	0.00	0.00
ATOM 32629	CG2 VAL 2179	75.955	94.327	79.633	0.00	0.00
ATOM 32630	1HG2 VAL 2179	76.957	94.022	79.331	0.00	0.00
ATOM 32631	2HG2 VAL 2179	75.137	93.655	79.373	0.00	0.00
ATOM 32632	3HG2 VAL 2179	75.635	95.211	79.082	0.00	0.00
ATOM 32633	C VAL 2179	74.591	95.392	83.091	0.00	0.00
ATOM 32634	O VAL 2179	74.755	96.586	83.373	0.00	0.00
ATOM 32635	N VAL 2180	74.137	94.573	84.022	0.00	0.00
ATOM 32636	H VAL 2180	73.905	93.626	83.757	0.00	0.00
ATOM 32637	CA VAL 2180	74.102	94.843	85.480	0.00	0.00
ATOM 32638	HA VAL 2180	74.424	95.884	85.522	0.00	0.00
ATOM 32639	CB VAL 2180	72.688	94.588	86.059	0.00	0.00
ATOM 32640	HB VAL 2180	72.376	93.560	85.877	0.00	0.00
ATOM 32641	CG1 VAL 2180	72.734	94.750	87.629	0.00	0.00
ATOM 32642	1HG1 VAL 2180	73.378	93.962	88.019	0.00	0.00
ATOM 32643	2HG1 VAL 2180	73.057	95.754	87.904	0.00	0.00
ATOM 32644	3HG1 VAL 2180	71.751	94.702	88.097	0.00	0.00
ATOM 32645	CG2 VAL 2180	71.693	95.651	85.500	0.00	0.00
ATOM 32646	1HG2 VAL 2180	70.949	95.882	86.263	0.00	0.00
ATOM 32647	2HG2 VAL 2180	72.324	96.533	85.398	0.00	0.00
ATOM 32648	3HG2 VAL 2180	71.271	95.284	84.564	0.00	0.00

ATOM	32649	C	VAL	2180	75.187	94.056	86.313	0.00	0.00
ATOM	32650	O	VAL	2180	75.390	92.875	86.008	0.00	0.00
ATOM	32651	N	TRP	2181	75.765	94.723	87.332	0.00	0.00
ATOM	32652	H	TRP	2181	75.497	95.691	87.439	0.00	0.00
ATOM	32653	CA	TRP	2181	76.845	94.192	88.200	0.00	0.00
ATOM	32654	HA	TRP	2181	76.841	93.106	88.114	0.00	0.00
ATOM	32655	CB	TRP	2181	78.241	94.865	87.737	0.00	0.00
ATOM	32656	HB2	TRP	2181	78.347	95.833	88.227	0.00	0.00
ATOM	32657	HB3	TRP	2181	79.035	94.282	88.205	0.00	0.00
ATOM	32658	CG	TRP	2181	78.571	94.975	86.262	0.00	0.00
ATOM	32659	CD1	TRP	2181	78.180	96.097	85.556	0.00	0.00
ATOM	32660	HD1	TRP	2181	77.575	96.928	85.886	0.00	0.00
ATOM	32661	NE1	TRP	2181	78.715	95.918	84.295	0.00	0.00
ATOM	32662	HE1	TRP	2181	78.572	96.585	83.551	0.00	0.00
ATOM	32663	CE2	TRP	2181	79.570	94.839	84.228	0.00	0.00
ATOM	32664	CZ2	TRP	2181	80.400	94.260	83.219	0.00	0.00
ATOM	32665	HZ2	TRP	2181	80.481	94.754	82.262	0.00	0.00
ATOM	32666	CH2	TRP	2181	81.030	93.014	83.475	0.00	0.00
ATOM	32667	HH2	TRP	2181	81.737	92.528	82.820	0.00	0.00
ATOM	32668	CZ3	TRP	2181	80.871	92.436	84.741	0.00	0.00
ATOM	32669	HZ3	TRP	2181	81.341	91.491	84.970	0.00	0.00
ATOM	32670	CE3	TRP	2181	79.996	92.943	85.678	0.00	0.00
ATOM	32671	HE3	TRP	2181	79.759	92.429	86.597	0.00	0.00
ATOM	32672	CD2	TRP	2181	79.402	94.174	85.488	0.00	0.00
ATOM	32673	C	TRP	2181	76.644	94.575	89.666	0.00	0.00
ATOM	32674	O	TRP	2181	76.345	95.719	90.028	0.00	0.00

ATOM	32675	N	SER	2182	76.849	93.628	90.543	0.00	0.00
ATOM	32676	H	SER	2182	76.996	92.705	90.162	0.00	0.00
ATOM	32677	CA	SER	2182	77.063	93.893	91.990	0.00	0.00
ATOM	32678	HA	SER	2182	76.285	94.581	92.322	0.00	0.00
ATOM	32679	CB	SER	2182	76.988	92.701	92.979	0.00	0.00
ATOM	32680	HB2	SER	2182	78.026	92.382	93.069	0.00	0.00
ATOM	32681	HB3	SER	2182	76.618	93.050	93.943	0.00	0.00
ATOM	32682	OG	SER	2182	76.091	91.763	92.493	0.00	0.00
ATOM	32683	HG	SER	2182	75.319	91.681	93.057	0.00	0.00
ATOM	32684	C	SER	2182	78.443	94.548	92.201	0.00	0.00
ATOM	32685	O	SER	2182	79.419	94.112	91.576	0.00	0.00
ATOM	32686	N	PRO	2183	78.622	95.546	93.078	0.00	0.00
ATOM	32687	CD	PRO	2183	77.523	96.240	93.768	0.00	0.00
ATOM	32688	HD2	PRO	2183	77.123	95.507	94.468	0.00	0.00
ATOM	32689	HD3	PRO	2183	76.827	96.654	93.038	0.00	0.00
ATOM	32690	CG	PRO	2183	78.113	97.404	94.553	0.00	0.00
ATOM	32691	HG2	PRO	2183	77.820	98.269	93.958	0.00	0.00
ATOM	32692	HG3	PRO	2183	77.696	97.511	95.554	0.00	0.00
ATOM	32693	CB	PRO	2183	79.583	96.977	94.581	0.00	0.00
ATOM	32694	HB2	PRO	2183	80.275	97.818	94.627	0.00	0.00
ATOM	32695	HB3	PRO	2183	79.716	96.243	95.377	0.00	0.00
ATOM	32696	CA	PRO	2183	79.874	96.273	93.268	0.00	0.00
ATOM	32697	HA	PRO	2183	80.004	96.900	92.386	0.00	0.00
ATOM	32698	C	PRO	2183	81.101	95.301	93.467	0.00	0.00
ATOM	32699	O	PRO	2183	82.143	95.620	92.961	0.00	0.00
ATOM	32700	N	ALA	2184	80.946	94.122	94.158	0.00	0.00

ATOM	32701	H	ALA	2184	80.007	93.988	94.505	0.00	0.00
ATOM	32702	CA	ALA	2184	81.984	93.131	94.452	0.00	0.00
ATOM	32703	HA	ALA	2184	82.885	93.558	94.893	0.00	0.00
ATOM	32704	CB	ALA	2184	81.457	92.177	95.538	0.00	0.00
ATOM	32705	HB1	ALA	2184	82.221	91.620	96.082	0.00	0.00
ATOM	32706	HB2	ALA	2184	81.001	92.811	96.299	0.00	0.00
ATOM	32707	HB3	ALA	2184	80.618	91.565	95.208	0.00	0.00
ATOM	32708	C	ALA	2184	82.495	92.269	93.198	0.00	0.00
ATOM	32709	O	ALA	2184	83.469	91.463	93.287	0.00	0.00
ATOM	32710	N	PHE	2185	81.821	92.513	92.043	0.00	0.00
ATOM	32711	H	PHE	2185	80.880	92.848	92.194	0.00	0.00
ATOM	32712	CA	PHE	2185	81.997	91.744	90.757	0.00	0.00
ATOM	32713	HA	PHE	2185	82.938	91.196	90.801	0.00	0.00
ATOM	32714	CB	PHE	2185	80.836	90.661	90.643	0.00	0.00
ATOM	32715	HB2	PHE	2185	79.917	91.234	90.516	0.00	0.00
ATOM	32716	HB3	PHE	2185	80.960	90.040	89.756	0.00	0.00
ATOM	32717	CG	PHE	2185	80.581	89.781	91.863	0.00	0.00
ATOM	32718	CD1	PHE	2185	81.722	88.984	92.394	0.00	0.00
ATOM	32719	HD1	PHE	2185	82.692	88.911	91.924	0.00	0.00
ATOM	32720	CE1	PHE	2185	81.485	88.281	93.578	0.00	0.00
ATOM	32721	HE1	PHE	2185	82.217	87.635	94.041	0.00	0.00
ATOM	32722	CZ	PHE	2185	80.167	88.337	94.190	0.00	0.00
ATOM	32723	HZ	PHE	2185	80.059	87.675	95.036	0.00	0.00
ATOM	32724	CE2	PHE	2185	79.121	89.177	93.725	0.00	0.00
ATOM	32725	HE2	PHE	2185	78.158	89.181	94.215	0.00	0.00
ATOM	32726	CD2	PHE	2185	79.302	89.762	92.451	0.00	0.00

ATOM	32727	HD2	PHE	2185	78.526	90.345	91.977	0.00	0.00
ATOM	32728	C	PHE	2185	81.960	92.562	89.504	0.00	0.00
ATOM	32729	O	PHE	2185	81.810	92.019	88.414	0.00	0.00
ATOM	32730	N	PHE	2186	82.050	93.902	89.600	0.00	0.00
ATOM	32731	H	PHE	2186	82.060	94.291	90.532	0.00	0.00
ATOM	32732	CA	PHE	2186	82.048	94.816	88.544	0.00	0.00
ATOM	32733	HA	PHE	2186	81.135	94.849	87.950	0.00	0.00
ATOM	32734	CB	PHE	2186	82.238	96.329	88.938	0.00	0.00
ATOM	32735	HB2	PHE	2186	81.410	96.691	89.548	0.00	0.00
ATOM	32736	HB3	PHE	2186	83.128	96.519	89.537	0.00	0.00
ATOM	32737	CG	PHE	2186	82.235	97.158	87.686	0.00	0.00
ATOM	32738	CD1	PHE	2186	81.012	97.524	87.048	0.00	0.00
ATOM	32739	HD1	PHE	2186	80.120	97.339	87.629	0.00	0.00
ATOM	32740	CE1	PHE	2186	81.031	98.177	85.799	0.00	0.00
ATOM	32741	HE1	PHE	2186	80.097	98.574	85.431	0.00	0.00
ATOM	32742	CZ	PHE	2186	82.239	98.426	85.118	0.00	0.00
ATOM	32743	HZ	PHE	2186	82.282	98.982	84.194	0.00	0.00
ATOM	32744	CE2	PHE	2186	83.433	98.094	85.795	0.00	0.00
ATOM	32745	HE2	PHE	2186	84.399	98.285	85.351	0.00	0.00
ATOM	32746	CD2	PHE	2186	83.474	97.534	87.134	0.00	0.00
ATOM	32747	HD2	PHE	2186	84.377	97.319	87.686	0.00	0.00
ATOM	32748	C	PHE	2186	83.233	94.534	87.601	0.00	0.00
ATOM	32749	O	PHE	2186	84.338	94.374	88.010	0.00	0.00
ATOM	32750	N	GLY	2187	82.953	94.400	86.307	0.00	0.00
ATOM	32751	H	GLY	2187	81.972	94.516	86.094	0.00	0.00
ATOM	32752	CA	GLY	2187	83.817	94.012	85.229	0.00	0.00

ATOM	32753	HA2	GLY	2187	83.401	94.460	84.326	0.00	0.00
ATOM	32754	HA3	GLY	2187	84.825	94.384	85.415	0.00	0.00
ATOM	32755	C	GLY	2187	83.905	92.493	85.216	0.00	0.00
ATOM	32756	O	GLY	2187	84.065	91.871	84.190	0.00	0.00
ATOM	32757	N	VAL	2188	83.962	91.867	86.360	0.00	0.00
ATOM	32758	H	VAL	2188	83.631	92.448	87.117	0.00	0.00
ATOM	32759	CA	VAL	2188	84.311	90.408	86.623	0.00	0.00
ATOM	32760	HA	VAL	2188	85.269	90.366	86.104	0.00	0.00
ATOM	32761	CB	VAL	2188	84.670	90.093	88.020	0.00	0.00
ATOM	32762	HB	VAL	2188	83.756	89.969	88.600	0.00	0.00
ATOM	32763	CG1	VAL	2188	85.439	88.800	88.266	0.00	0.00
ATOM	32764	1HG1	VAL	2188	85.509	88.587	89.333	0.00	0.00
ATOM	32765	2HG1	VAL	2188	84.841	87.935	87.980	0.00	0.00
ATOM	32766	3HG1	VAL	2188	86.348	88.793	87.664	0.00	0.00
ATOM	32767	CG2	VAL	2188	85.570	91.176	88.674	0.00	0.00
ATOM	32768	1HG2	VAL	2188	86.329	91.348	87.911	0.00	0.00
ATOM	32769	2HG2	VAL	2188	84.899	92.025	88.804	0.00	0.00
ATOM	32770	3HG2	VAL	2188	85.858	91.014	89.713	0.00	0.00
ATOM	32771	C	VAL	2188	83.437	89.414	86.021	0.00	0.00
ATOM	32772	O	VAL	2188	83.796	88.623	85.100	0.00	0.00
ATOM	32773	N	LYS	2189	82.153	89.346	86.475	0.00	0.00
ATOM	32774	H	LYS	2189	81.953	89.864	87.319	0.00	0.00
ATOM	32775	CA	LYS	2189	81.015	88.545	85.959	0.00	0.00
ATOM	32776	HA	LYS	2189	81.186	88.422	84.889	0.00	0.00
ATOM	32777	CB	LYS	2189	81.104	87.160	86.602	0.00	0.00
ATOM	32778	HB2	LYS	2189	81.141	87.422	87.659	0.00	0.00



ATOM	32779	HB3	LYS	2189	80.169	86.620	86.450	0.00	0.00
ATOM	32780	CG	LYS	2189	82.325	86.268	86.393	0.00	0.00
ATOM	32781	HG2	LYS	2189	82.705	86.065	85.392	0.00	0.00
ATOM	32782	HG3	LYS	2189	83.137	86.810	86.877	0.00	0.00
ATOM	32783	CD	LYS	2189	82.161	84.882	87.100	0.00	0.00
ATOM	32784	HD2	LYS	2189	81.540	85.112	87.965	0.00	0.00
ATOM	32785	HD3	LYS	2189	81.581	84.237	86.441	0.00	0.00
ATOM	32786	CE	LYS	2189	83.462	84.119	87.462	0.00	0.00
ATOM	32787	HE2	LYS	2189	84.125	84.329	86.622	0.00	0.00
ATOM	32788	HE3	LYS	2189	83.833	84.598	88.368	0.00	0.00
ATOM	32789	NZ	LYS	2189	83.348	82.691	87.684	0.00	0.00
ATOM	32790	HZ1	LYS	2189	83.196	82.281	86.774	0.00	0.00
ATOM	32791	HZ2	LYS	2189	84.247	82.299	87.923	0.00	0.00
ATOM	32792	HZ3	LYS	2189	82.608	82.369	88.292	0.00	0.00
ATOM	32793	C	LYS	2189	79.677	89.245	86.203	0.00	0.00
ATOM	32794	O	LYS	2189	79.496	89.595	87.366	0.00	0.00
ATOM	32795	N	PRO	2190	78.889	89.631	85.165	0.00	0.00
ATOM	32796	CD	PRO	2190	79.171	89.218	83.790	0.00	0.00
ATOM	32797	HD2	PRO	2190	79.177	88.145	83.595	0.00	0.00
ATOM	32798	HD3	PRO	2190	80.092	89.658	83.409	0.00	0.00
ATOM	32799	CG	PRO	2190	77.970	89.814	83.003	0.00	0.00
ATOM	32800	HG2	PRO	2190	78.292	90.225	82.046	0.00	0.00
ATOM	32801	HG3	PRO	2190	77.205	89.065	82.798	0.00	0.00
ATOM	32802	CB	PRO	2190	77.310	90.913	83.939	0.00	0.00
ATOM	32803	HB2	PRO	2190	77.792	91.872	83.755	0.00	0.00
ATOM	32804	HB3	PRO	2190	76.241	90.948	83.729	0.00	0.00

ATOM 32805	CA	PRO	2190	77.652	90.475	85.369	0.00	0.00
ATOM 32806	HA	PRO	2190	77.786	91.363	85.987	0.00	0.00
ATOM 32807	C	PRO	2190	76.411	89.646	85.941	0.00	0.00
ATOM 32808	O	PRO	2190	76.255	88.447	85.579	0.00	0.00
ATOM 32809	N	ALA	2191	75.499	90.285	86.746	0.00	0.00
ATOM 32810	H	ALA	2191	75.538	91.278	86.929	0.00	0.00
ATOM 32811	CA	ALA	2191	74.280	89.630	87.274	0.00	0.00
ATOM 32812	HA	ALA	2191	74.629	88.682	87.682	0.00	0.00
ATOM 32813	CB	ALA	2191	73.610	90.558	88.323	0.00	0.00
ATOM 32814	HB1	ALA	2191	74.297	90.734	89.151	0.00	0.00
ATOM 32815	HB2	ALA	2191	73.361	91.567	87.997	0.00	0.00
ATOM 32816	HB3	ALA	2191	72.714	90.039	88.663	0.00	0.00
ATOM 32817	C	ALA	2191	73.305	89.298	86.177	0.00	0.00
ATOM 32818	O	ALA	2191	72.429	88.487	86.358	0.00	0.00
ATOM 32819	N	THR	2192	73.363	89.960	85.018	0.00	0.00
ATOM 32820	H	THR	2192	73.970	90.747	84.843	0.00	0.00
ATOM 32821	CA	THR	2192	72.478	89.733	83.845	0.00	0.00
ATOM 32822	HA	THR	2192	72.493	88.677	83.576	0.00	0.00
ATOM 32823	CB	THR	2192	71.018	90.216	84.137	0.00	0.00
ATOM 32824	HB	THR	2192	70.933	90.260	85.222	0.00	0.00
ATOM 32825	CG2	THR	2192	70.534	91.661	83.714	0.00	0.00
ATOM 32826	1HG2	THR	2192	69.458	91.723	83.878	0.00	0.00
ATOM 32827	2HG2	THR	2192	70.886	92.462	84.364	0.00	0.00
ATOM 32828	3HG2	THR	2192	70.727	91.844	82.657	0.00	0.00
ATOM 32829	OG1	THR	2192	70.106	89.353	83.521	0.00	0.00
ATOM 32830	HG1	THR	2192	69.371	89.157	84.106	0.00	0.00

ATOM 32831	C	THR	2192	73.031	90.526	82.621	0.00	0.00
ATOM 32832	O	THR	2192	73.814	91.477	82.843	0.00	0.00
ATOM 32833	N	VAL	2193	72.643	90.111	81.412	0.00	0.00
ATOM 32834	H	VAL	2193	71.968	89.360	81.426	0.00	0.00
ATOM 32835	CA	VAL	2193	72.749	90.879	80.172	0.00	0.00
ATOM 32836	HA	VAL	2193	73.150	91.856	80.442	0.00	0.00
ATOM 32837	CB	VAL	2193	73.802	90.206	79.312	0.00	0.00
ATOM 32838	HB	VAL	2193	73.581	89.148	79.170	0.00	0.00
ATOM 32839	CG1	VAL	2193	73.940	90.672	77.880	0.00	0.00
ATOM 32840	1HG1	VAL	2193	74.677	90.034	77.391	0.00	0.00
ATOM 32841	2HG1	VAL	2193	73.007	90.426	77.373	0.00	0.00
ATOM 32842	3HG1	VAL	2193	74.237	91.715	77.766	0.00	0.00
ATOM 32843	CG2	VAL	2193	75.187	90.161	79.963	0.00	0.00
ATOM 32844	1HG2	VAL	2193	75.927	89.473	79.553	0.00	0.00
ATOM 32845	2HG2	VAL	2193	75.603	91.169	79.973	0.00	0.00
ATOM 32846	3HG2	VAL	2193	75.124	89.914	81.022	0.00	0.00
ATOM 32847	C	VAL	2193	71.505	91.050	79.379	0.00	0.00
ATOM 32848	O	VAL	2193	70.779	90.087	79.190	0.00	0.00
ATOM 32849	N	ILE	2194	71.216	92.257	78.872	0.00	0.00
ATOM 32850	H	ILE	2194	71.878	93.013	78.971	0.00	0.00
ATOM 32851	CA	ILE	2194	70.047	92.586	78.049	0.00	0.00
ATOM 32852	HA	ILE	2194	69.389	91.739	77.854	0.00	0.00
ATOM 32853	CB	ILE	2194	69.222	93.639	78.767	0.00	0.00
ATOM 32854	HB	ILE	2194	69.690	94.624	78.746	0.00	0.00
ATOM 32855	CG2	ILE	2194	67.832	93.924	78.099	0.00	0.00
ATOM 32856	1HG2	ILE	2194	67.818	93.552	77.075	0.00	0.00

ATOM	32857	2HG2	ILE	2194	66.998	93.515	78.670	0.00	0.00
ATOM	32858	3HG2	ILE	2194	67.660	95.000	78.133	0.00	0.00
ATOM	32859	CG1	ILE	2194	68.891	93.261	80.222	0.00	0.00
ATOM	32860	2HG1	ILE	2194	68.317	92.338	80.139	0.00	0.00
ATOM	32861	3HG1	ILE	2194	69.846	93.241	80.747	0.00	0.00
ATOM	32862	CD1	ILE	2194	68.126	94.302	81.035	0.00	0.00
ATOM	32863	1HD1	ILE	2194	67.943	94.131	82.095	0.00	0.00
ATOM	32864	2HD1	ILE	2194	68.742	95.198	80.966	0.00	0.00
ATOM	32865	3HD1	ILE	2194	67.099	94.292	80.670	0.00	0.00
ATOM	32866	C	ILE	2194	70.447	93.008	76.614	0.00	0.00
ATOM	32867	O	ILE	2194	71.416	93.762	76.490	0.00	0.00
ATOM	32868	N	LYS	2195	69.678	92.560	75.705	0.00	0.00
ATOM	32869	H	LYS	2195	69.034	91.819	75.943	0.00	0.00
ATOM	32870	CA	LYS	2195	69.730	92.880	74.310	0.00	0.00
ATOM	32871	HA	LYS	2195	70.476	93.648	74.106	0.00	0.00
ATOM	32872	CB	LYS	2195	69.990	91.638	73.429	0.00	0.00
ATOM	32873	HB2	LYS	2195	69.270	90.843	73.624	0.00	0.00
ATOM	32874	HB3	LYS	2195	69.808	91.793	72.366	0.00	0.00
ATOM	32875	CG	LYS	2195	71.453	91.073	73.441	0.00	0.00
ATOM	32876	HG2	LYS	2195	71.551	90.146	72.876	0.00	0.00
ATOM	32877	HG3	LYS	2195	71.741	90.768	74.447	0.00	0.00
ATOM	32878	CD	LYS	2195	72.456	92.030	72.908	0.00	0.00
ATOM	32879	HD2	LYS	2195	72.581	92.930	73.511	0.00	0.00
ATOM	32880	HD3	LYS	2195	73.416	91.554	73.109	0.00	0.00
ATOM	32881	CE	LYS	2195	72.517	92.350	71.480	0.00	0.00
ATOM	32882	HE2	LYS	2195	73.412	92.823	71.076	0.00	0.00

ATOM 32883	HE3	LYS	2195	72.188	91.430	70.998	0.00	0.00
ATOM 32884	NZ	LYS	2195	71.460	93.362	71.201	0.00	0.00
ATOM 32885	HZ1	LYS	2195	71.647	94.187	71.754	0.00	0.00
ATOM 32886	HZ2	LYS	2195	71.613	93.627	70.238	0.00	0.00
ATOM 32887	HZ3	LYS	2195	70.523	93.027	71.372	0.00	0.00
ATOM 32888	C	LYS	2195	68.384	93.514	73.860	0.00	0.00
ATOM 32889	O	LYS	2195	67.276	92.897	73.941	0.00	0.00
ATOM 32890	N	GLY	2196	68.428	94.770	73.431	0.00	0.00
ATOM 32891	H	GLY	2196	69.341	95.192	73.340	0.00	0.00
ATOM 32892	CA	GLY	2196	67.320	95.530	72.850	0.00	0.00
ATOM 32893	HA2	GLY	2196	67.475	96.609	72.832	0.00	0.00
ATOM 32894	HA3	GLY	2196	67.228	95.247	71.801	0.00	0.00
ATOM 32895	C	GLY	2196	65.991	95.363	73.669	0.00	0.00
ATOM 32896	O	GLY	2196	64.947	95.116	73.091	0.00	0.00
ATOM 32897	N	GLY	2197	66.147	95.226	74.994	0.00	0.00
ATOM 32898	H	GLY	2197	67.036	95.521	75.373	0.00	0.00
ATOM 32899	CA	GLY	2197	65.059	95.140	75.990	0.00	0.00
ATOM 32900	HA2	GLY	2197	65.419	95.604	76.909	0.00	0.00
ATOM 32901	HA3	GLY	2197	64.169	95.693	75.691	0.00	0.00
ATOM 32902	C	GLY	2197	64.570	93.707	76.342	0.00	0.00
ATOM 32903	O	GLY	2197	63.718	93.642	77.204	0.00	0.00
ATOM 32904	N	MET	2198	65.081	92.640	75.691	0.00	0.00
ATOM 32905	H	MET	2198	65.707	92.833	74.922	0.00	0.00
ATOM 32906	CA	MET	2198	64.818	91.291	76.084	0.00	0.00
ATOM 32907	HA	MET	2198	64.030	91.289	76.837	0.00	0.00
ATOM 32908	CB	MET	2198	64.312	90.445	74.957	0.00	0.00

ATOM 32909	HB2 MET 2198	63.673	91.115	74.383	0.00	0.00
ATOM 32910	HB3 MET 2198	65.123	90.127	74.301	0.00	0.00
ATOM 32911	CG MET 2198	63.555	89.219	75.460	0.00	0.00
ATOM 32912	HG2 MET 2198	64.237	88.440	75.799	0.00	0.00
ATOM 32913	HG3 MET 2198	62.942	89.669	76.240	0.00	0.00
ATOM 32914	SD MET 2198	62.421	88.407	74.242	0.00	0.00
ATOM 32915	CE MET 2198	61.183	87.798	75.429	0.00	0.00
ATOM 32916	HE1 MET 2198	60.419	88.557	75.596	0.00	0.00
ATOM 32917	HE2 MET 2198	60.763	86.883	75.013	0.00	0.00
ATOM 32918	HE3 MET 2198	61.684	87.630	76.382	0.00	0.00
ATOM 32919	C MET 2198	66.123	90.649	76.628	0.00	0.00
ATOM 32920	O MET 2198	67.118	90.621	75.986	0.00	0.00
ATOM 32921	N ILE 2199	65.982	90.175	77.864	0.00	0.00
ATOM 32922	H ILE 2199	65.074	90.381	78.257	0.00	0.00
ATOM 32923	CA ILE 2199	67.127	89.526	78.603	0.00	0.00
ATOM 32924	HA ILE 2199	67.987	90.194	78.648	0.00	0.00
ATOM 32925	CB ILE 2199	66.853	89.238	80.087	0.00	0.00
ATOM 32926	HB ILE 2199	66.285	88.308	80.076	0.00	0.00
ATOM 32927	CG2 ILE 2199	68.106	88.960	80.934	0.00	0.00
ATOM 32928	1HG2 ILE 2199	68.871	88.626	80.233	0.00	0.00
ATOM 32929	2HG2 ILE 2199	68.529	89.838	81.421	0.00	0.00
ATOM 32930	3HG2 ILE 2199	67.906	88.252	81.738	0.00	0.00
ATOM 32931	CG1 ILE 2199	65.896	90.185	80.815	0.00	0.00
ATOM 32932	2HG1 ILE 2199	66.355	91.154	81.010	0.00	0.00
ATOM 32933	3HG1 ILE 2199	65.014	90.383	80.206	0.00	0.00
ATOM 32934	CD1 ILE 2199	65.510	89.671	82.253	0.00	0.00

ATOM 32935	1HD1	ILE	2199	65.050	88.685	82.189	0.00	0.00
ATOM 32936	2HD1	ILE	2199	66.389	89.564	82.889	0.00	0.00
ATOM 32937	3HD1	ILE	2199	64.823	90.388	82.702	0.00	0.00
ATOM 32938	C	ILE	2199	67.647	88.308	77.868	0.00	0.00
ATOM 32939	O	ILE	2199	66.878	87.474	77.425	0.00	0.00
ATOM 32940	N	ALA	2200	68.947	88.236	77.617	0.00	0.00
ATOM 32941	H	ALA	2200	69.486	89.010	77.978	0.00	0.00
ATOM 32942	CA	ALA	2200	69.602	87.448	76.548	0.00	0.00
ATOM 32943	HA	ALA	2200	68.882	87.031	75.844	0.00	0.00
ATOM 32944	CB	ALA	2200	70.425	88.385	75.605	0.00	0.00
ATOM 32945	HB1	ALA	2200	70.739	87.923	74.669	0.00	0.00
ATOM 32946	HB2	ALA	2200	69.821	89.270	75.406	0.00	0.00
ATOM 32947	HB3	ALA	2200	71.363	88.657	76.089	0.00	0.00
ATOM 32948	C	ALA	2200	70.420	86.238	77.017	0.00	0.00
ATOM 32949	O	ALA	2200	70.629	85.313	76.221	0.00	0.00
ATOM 32950	N	ILE	2201	70.990	86.323	78.256	0.00	0.00
ATOM 32951	H	ILE	2201	70.723	87.094	78.851	0.00	0.00
ATOM 32952	CA	ILE	2201	71.807	85.332	78.950	0.00	0.00
ATOM 32953	HA	ILE	2201	71.132	84.477	78.967	0.00	0.00
ATOM 32954	CB	ILE	2201	73.034	84.894	78.133	0.00	0.00
ATOM 32955	HB	ILE	2201	72.671	84.213	77.363	0.00	0.00
ATOM 32956	CG2	ILE	2201	73.710	86.095	77.324	0.00	0.00
ATOM 32957	1HG2	ILE	2201	72.910	86.431	76.664	0.00	0.00
ATOM 32958	2HG2	ILE	2201	74.125	86.823	78.020	0.00	0.00
ATOM 32959	3HG2	ILE	2201	74.540	85.713	76.729	0.00	0.00
ATOM 32960	CG1	ILE	2201	74.077	84.261	79.059	0.00	0.00

ATOM 32961	2HG1	ILE	2201	74.583	85.027	79.648	0.00	0.00
ATOM 32962	3HG1	ILE	2201	73.603	83.526	79.711	0.00	0.00
ATOM 32963	CD1	ILE	2201	75.020	83.403	78.178	0.00	0.00
ATOM 32964	1HD1	ILE	2201	75.635	83.937	77.453	0.00	0.00
ATOM 32965	2HD1	ILE	2201	75.814	83.018	78.819	0.00	0.00
ATOM 32966	3HD1	ILE	2201	74.364	82.720	77.638	0.00	0.00
ATOM 32967	C	ILE	2201	71.945	85.834	80.445	0.00	0.00
ATOM 32968	O	ILE	2201	72.295	86.991	80.646	0.00	0.00
ATOM 32969	N	ALA	2202	71.880	84.934	81.402	0.00	0.00
ATOM 32970	H	ALA	2202	71.727	84.002	81.045	0.00	0.00
ATOM 32971	CA	ALA	2202	71.804	85.191	82.799	0.00	0.00
ATOM 32972	HA	ALA	2202	72.389	86.090	82.990	0.00	0.00
ATOM 32973	CB	ALA	2202	70.382	85.607	83.158	0.00	0.00
ATOM 32974	HB1	ALA	2202	70.458	85.927	84.198	0.00	0.00
ATOM 32975	HB2	ALA	2202	70.045	86.402	82.494	0.00	0.00
ATOM 32976	HB3	ALA	2202	69.784	84.697	83.120	0.00	0.00
ATOM 32977	C	ALA	2202	72.324	84.053	83.689	0.00	0.00
ATOM 32978	O	ALA	2202	72.169	82.869	83.319	0.00	0.00
ATOM 32979	N	PRO	2203	73.031	84.432	84.775	0.00	0.00
ATOM 32980	CD	PRO	2203	73.306	85.737	85.262	0.00	0.00
ATOM 32981	HD2	PRO	2203	72.329	86.173	85.471	0.00	0.00
ATOM 32982	HD3	PRO	2203	73.852	86.472	84.669	0.00	0.00
ATOM 32983	CG	PRO	2203	74.062	85.603	86.479	0.00	0.00
ATOM 32984	HG2	PRO	2203	74.970	86.202	86.542	0.00	0.00
ATOM 32985	HG3	PRO	2203	73.432	85.858	87.331	0.00	0.00
ATOM 32986	CB	PRO	2203	74.478	84.143	86.697	0.00	0.00



ATOM 32987	HB2 PRO	2203	75.495	84.151	86.307	0.00	0.00
ATOM 32988	HB3 PRO	2203	74.420	83.721	87.701	0.00	0.00
ATOM 32989	CA PRO	2203	73.543	83.399	85.710	0.00	0.00
ATOM 32990	HA PRO	2203	74.047	82.572	85.211	0.00	0.00
ATOM 32991	C PRO	2203	72.332	82.803	86.352	0.00	0.00
ATOM 32992	O PRO	2203	71.578	83.455	87.061	0.00	0.00
ATOM 32993	N MET	2204	72.049	81.533	86.163	0.00	0.00
ATOM 32994	H MET	2204	72.719	80.984	85.644	0.00	0.00
ATOM 32995	CA MET	2204	70.758	80.956	86.607	0.00	0.00
ATOM 32996	HA MET	2204	70.248	81.554	87.362	0.00	0.00
ATOM 32997	CB MET	2204	69.862	81.034	85.376	0.00	0.00
ATOM 32998	HB2 MET	2204	69.636	82.099	85.331	0.00	0.00
ATOM 32999	HB3 MET	2204	70.409	80.703	84.493	0.00	0.00
ATOM 33000	CG MET	2204	68.500	80.292	85.563	0.00	0.00
ATOM 33001	HG2 MET	2204	67.948	80.335	84.624	0.00	0.00
ATOM 33002	HG3 MET	2204	68.601	79.267	85.920	0.00	0.00
ATOM 33003	SD MET	2204	67.481	81.191	86.724	0.00	0.00
ATOM 33004	CE MET	2204	66.241	79.841	86.774	0.00	0.00
ATOM 33005	HE1 MET	2204	65.962	79.712	85.728	0.00	0.00
ATOM 33006	HE2 MET	2204	66.637	78.887	87.121	0.00	0.00
ATOM 33007	HE3 MET	2204	65.375	80.173	87.347	0.00	0.00
ATOM 33008	C MET	2204	70.827	79.482	87.015	0.00	0.00
ATOM 33009	O MET	2204	71.669	78.748	86.480	0.00	0.00
ATOM 33010	N GLY	2205	70.120	79.128	88.090	0.00	0.00
ATOM 33011	H GLY	2205	69.362	79.700	88.434	0.00	0.00
ATOM 33012	CA GLY	2205	70.253	77.803	88.721	0.00	0.00

ATOM	33013	HA2	GLY	2205	71.276	77.514	88.962	0.00	0.00
ATOM	33014	HA3	GLY	2205	69.695	77.861	89.656	0.00	0.00
ATOM	33015	C	GLY	2205	69.701	76.588	88.042	0.00	0.00
ATOM	33016	O	GLY	2205	69.266	76.549	86.891	0.00	0.00
ATOM	33017	N	ASP	2206	69.643	75.564	88.864	0.00	0.00
ATOM	33018	H	ASP	2206	70.006	75.693	89.798	0.00	0.00
ATOM	33019	CA	ASP	2206	69.188	74.241	88.504	0.00	0.00
ATOM	33020	HA	ASP	2206	69.926	73.854	87.802	0.00	0.00
ATOM	33021	CB	ASP	2206	69.049	73.424	89.805	0.00	0.00
ATOM	33022	HB2	ASP	2206	70.030	73.226	90.236	0.00	0.00
ATOM	33023	HB3	ASP	2206	68.509	74.052	90.512	0.00	0.00
ATOM	33024	CG	ASP	2206	68.346	72.122	89.595	0.00	0.00
ATOM	33025	OD1	ASP	2206	67.733	71.654	90.501	0.00	0.00
ATOM	33026	OD2	ASP	2206	68.460	71.551	88.446	0.00	0.00
ATOM	33027	C	ASP	2206	67.824	74.231	87.767	0.00	0.00
ATOM	33028	O	ASP	2206	66.822	74.664	88.382	0.00	0.00
ATOM	33029	N	ILE	2207	67.781	73.848	86.532	0.00	0.00
ATOM	33030	H	ILE	2207	68.661	73.594	86.107	0.00	0.00
ATOM	33031	CA	ILE	2207	66.530	73.650	85.791	0.00	0.00
ATOM	33032	HA	ILE	2207	66.073	74.626	85.627	0.00	0.00
ATOM	33033	CB	ILE	2207	66.912	72.990	84.401	0.00	0.00
ATOM	33034	HB	ILE	2207	65.940	72.644	84.050	0.00	0.00
ATOM	33035	CG2	ILE	2207	67.528	74.097	83.387	0.00	0.00
ATOM	33036	1HG2	ILE	2207	67.783	73.745	82.388	0.00	0.00
ATOM	33037	2HG2	ILE	2207	66.842	74.906	83.136	0.00	0.00
ATOM	33038	3HG2	ILE	2207	68.418	74.558	83.817	0.00	0.00

ATOM	33039	CG1	ILE	2207	67.655	71.605	84.523	0.00	0.00
ATOM	33040	2HG1	ILE	2207	67.411	71.080	85.447	0.00	0.00
ATOM	33041	3HG1	ILE	2207	67.321	70.881	83.780	0.00	0.00
ATOM	33042	CD1	ILE	2207	69.161	71.679	84.433	0.00	0.00
ATOM	33043	1HD1	ILE	2207	69.513	70.650	84.508	0.00	0.00
ATOM	33044	2HD1	ILE	2207	69.438	72.186	83.509	0.00	0.00
ATOM	33045	3HD1	ILE	2207	69.553	72.250	85.275	0.00	0.00
ATOM	33046	C	ILE	2207	65.434	72.734	86.448	0.00	0.00
ATOM	33047	O	ILE	2207	64.237	72.984	86.215	0.00	0.00
ATOM	33048	N	ASN	2208	65.728	71.816	87.383	0.00	0.00
ATOM	33049	H	ASN	2208	66.683	71.722	87.697	0.00	0.00
ATOM	33050	CA	ASN	2208	64.760	71.106	88.156	0.00	0.00
ATOM	33051	HA	ASN	2208	63.990	70.700	87.501	0.00	0.00
ATOM	33052	CB	ASN	2208	65.590	69.871	88.808	0.00	0.00
ATOM	33053	HB2	ASN	2208	65.484	69.048	88.101	0.00	0.00
ATOM	33054	HB3	ASN	2208	66.641	70.125	88.944	0.00	0.00
ATOM	33055	CG	ASN	2208	65.050	69.390	90.163	0.00	0.00
ATOM	33056	OD1	ASN	2208	64.198	68.467	90.232	0.00	0.00
ATOM	33057	ND2	ASN	2208	65.398	69.968	91.256	0.00	0.00
ATOM	33058	1HD2	ASN	2208	65.130	69.497	92.108	0.00	0.00
ATOM	33059	2HD2	ASN	2208	65.997	70.780	91.207	0.00	0.00
ATOM	33060	C	ASN	2208	64.136	71.992	89.128	0.00	0.00
ATOM	33061	O	ASN	2208	62.947	71.838	89.473	0.00	0.00
ATOM	33062	N	ALA	2209	64.861	72.893	89.754	0.00	0.00
ATOM	33063	H	ALA	2209	65.746	73.247	89.420	0.00	0.00
ATOM	33064	CA	ALA	2209	64.472	73.362	91.099	0.00	0.00

ATOM	33065	HA	ALA	2209	64.258	72.503	91.735	0.00	0.00
ATOM	33066	CB	ALA	2209	65.703	74.055	91.823	0.00	0.00
ATOM	33067	HB1	ALA	2209	66.167	74.738	91.111	0.00	0.00
ATOM	33068	HB2	ALA	2209	65.465	74.522	92.778	0.00	0.00
ATOM	33069	HB3	ALA	2209	66.502	73.322	91.931	0.00	0.00
ATOM	33070	C	ALA	2209	63.203	74.296	91.172	0.00	0.00
ATOM	33071	O	ALA	2209	62.710	74.770	90.114	0.00	0.00
ATOM	33072	N	SER	2210	62.745	74.622	92.341	0.00	0.00
ATOM	33073	H	SER	2210	63.153	74.089	93.096	0.00	0.00
ATOM	33074	CA	SER	2210	61.449	75.250	92.645	0.00	0.00
ATOM	33075	HA	SER	2210	60.671	74.954	91.942	0.00	0.00
ATOM	33076	CB	SER	2210	60.955	74.904	94.050	0.00	0.00
ATOM	33077	HB2	SER	2210	61.694	75.323	94.733	0.00	0.00
ATOM	33078	HB3	SER	2210	59.985	75.349	94.273	0.00	0.00
ATOM	33079	OG	SER	2210	60.899	73.502	94.277	0.00	0.00
ATOM	33080	HG	SER	2210	61.794	73.295	94.553	0.00	0.00
ATOM	33081	C	SER	2210	61.557	76.761	92.548	0.00	0.00
ATOM	33082	O	SER	2210	60.589	77.449	92.672	0.00	0.00
ATOM	33083	N	ILE	2211	62.821	77.308	92.513	0.00	0.00
ATOM	33084	H	ILE	2211	63.557	76.653	92.290	0.00	0.00
ATOM	33085	CA	ILE	2211	63.136	78.730	92.499	0.00	0.00
ATOM	33086	HA	ILE	2211	62.346	79.342	92.064	0.00	0.00
ATOM	33087	CB	ILE	2211	63.351	79.095	93.994	0.00	0.00
ATOM	33088	HB	ILE	2211	63.957	80.001	94.015	0.00	0.00
ATOM	33089	CG2	ILE	2211	62.084	79.422	94.770	0.00	0.00
ATOM	33090	1HG2	ILE	2211	61.333	78.632	94.728	0.00	0.00

ATOM 33091	2HG2	ILE	2211	62.326	79.782	95.770	0.00	0.00
ATOM 33092	3HG2	ILE	2211	61.671	80.272	94.228	0.00	0.00
ATOM 33093	CG1	ILE	2211	64.120	78.049	94.800	0.00	0.00
ATOM 33094	2HG1	ILE	2211	63.418	77.280	95.123	0.00	0.00
ATOM 33095	3HG1	ILE	2211	64.912	77.660	94.160	0.00	0.00
ATOM 33096	CD1	ILE	2211	64.734	78.650	96.047	0.00	0.00
ATOM 33097	1HD1	ILE	2211	63.928	78.988	96.698	0.00	0.00
ATOM 33098	2HD1	ILE	2211	65.369	77.928	96.562	0.00	0.00
ATOM 33099	3HD1	ILE	2211	65.282	79.571	95.852	0.00	0.00
ATOM 33100	C	ILE	2211	64.453	78.987	91.754	0.00	0.00
ATOM 33101	O	ILE	2211	65.282	78.110	91.665	0.00	0.00
ATOM 33102	N	PRO	2212	64.767	80.200	91.334	0.00	0.00
ATOM 33103	CD	PRO	2212	63.902	81.356	91.546	0.00	0.00
ATOM 33104	HD2	PRO	2212	62.860	81.096	91.730	0.00	0.00
ATOM 33105	HD3	PRO	2212	64.436	81.854	92.356	0.00	0.00
ATOM 33106	CG	PRO	2212	63.937	82.186	90.254	0.00	0.00
ATOM 33107	HG2	PRO	2212	63.238	81.702	89.572	0.00	0.00
ATOM 33108	HG3	PRO	2212	63.725	83.237	90.454	0.00	0.00
ATOM 33109	CB	PRO	2212	65.335	81.953	89.798	0.00	0.00
ATOM 33110	HB2	PRO	2212	65.374	81.982	88.709	0.00	0.00
ATOM 33111	HB3	PRO	2212	65.915	82.757	90.251	0.00	0.00
ATOM 33112	CA	PRO	2212	65.781	80.531	90.274	0.00	0.00
ATOM 33113	HA	PRO	2212	65.618	79.809	89.474	0.00	0.00
ATOM 33114	C	PRO	2212	67.185	80.565	90.726	0.00	0.00
ATOM 33115	O	PRO	2212	68.094	81.084	90.127	0.00	0.00
ATOM 33116	N	THR	2213	67.505	79.981	91.856	0.00	0.00

ATOM 33117 H THR 2213 66.799 79.452 92.348 0.00 0.00  
ATOM 33118 CA THR 2213 68.712 80.310 92.699 0.00 0.00  
ATOM 33119 HA THR 2213 69.453 80.791 92.061 0.00 0.00  
ATOM 33120 CB THR 2213 68.296 81.343 93.853 0.00 0.00  
ATOM 33121 HB THR 2213 69.107 81.295 94.580 0.00 0.00  
ATOM 33122 CG2 THR 2213 68.150 82.721 93.290 0.00 0.00  
ATOM 33123 1HG2 THR 2213 69.115 83.195 93.113 0.00 0.00  
ATOM 33124 2HG2 THR 2213 67.631 82.735 92.332 0.00 0.00  
ATOM 33125 3HG2 THR 2213 67.549 83.334 93.962 0.00 0.00  
ATOM 33126 OG1 THR 2213 67.165 80.909 94.548 0.00 0.00  
TER 0 0  
ATOM 33127 HG1 THR 2213 67.289 80.827 95.497 0.00 0.00  
ATOM 33128 C THR 2213 69.433 79.027 93.260 0.00 0.00  
ATOM 33129 O THR 2213 70.586 79.229 93.656 0.00 0.00  
ATOM 33130 N PRO 2214 68.886 77.790 93.404 0.00 0.00  
ATOM 33131 CD PRO 2214 67.447 77.471 93.675 0.00 0.00  
ATOM 33132 HD2 PRO 2214 67.100 77.147 92.694 0.00 0.00  
ATOM 33133 HD3 PRO 2214 66.882 78.337 94.020 0.00 0.00  
ATOM 33134 CG PRO 2214 67.293 76.325 94.566 0.00 0.00  
ATOM 33135 HG2 PRO 2214 67.275 76.715 95.583 0.00 0.00  
ATOM 33136 HG3 PRO 2214 66.356 75.829 94.313 0.00 0.00  
ATOM 33137 CB PRO 2214 68.533 75.522 94.113 0.00 0.00  
ATOM 33138 HB2 PRO 2214 68.745 74.779 94.882 0.00 0.00  
ATOM 33139 HB3 PRO 2214 68.375 74.951 93.199 0.00 0.00  
ATOM 33140 CA PRO 2214 69.558 76.567 93.853 0.00 0.00  
ATOM 33141 HA PRO 2214 70.006 76.723 94.834 0.00 0.00

ATOM	33142	C	PRO	2214	70.735	76.192	92.851	0.00	0.00
ATOM	33143	O	PRO	2214	70.570	76.100	91.649	0.00	0.00
ATOM	33144	N	GLN	2215	71.816	75.651	93.366	0.00	0.00
ATOM	33145	H	GLN	2215	71.944	75.892	94.339	0.00	0.00
ATOM	33146	CA	GLN	2215	72.943	75.252	92.547	0.00	0.00
ATOM	33147	HA	GLN	2215	73.210	76.092	91.905	0.00	0.00
ATOM	33148	CB	GLN	2215	74.214	74.857	93.410	0.00	0.00
ATOM	33149	HB2	GLN	2215	74.014	74.071	94.137	0.00	0.00
ATOM	33150	HB3	GLN	2215	74.948	74.320	92.810	0.00	0.00
ATOM	33151	CG	GLN	2215	74.810	76.083	94.129	0.00	0.00
ATOM	33152	HG2	GLN	2215	74.025	76.535	94.735	0.00	0.00
ATOM	33153	HG3	GLN	2215	75.690	75.815	94.714	0.00	0.00
ATOM	33154	CD	GLN	2215	75.203	77.162	93.115	0.00	0.00
ATOM	33155	OE1	GLN	2215	75.810	76.848	92.069	0.00	0.00
ATOM	33156	NE2	GLN	2215	74.994	78.432	93.325	0.00	0.00
ATOM	33157	1HE2	GLN	2215	75.363	79.175	92.749	0.00	0.00
ATOM	33158	2HE2	GLN	2215	74.294	78.730	93.989	0.00	0.00
ATOM	33159	C	GLN	2215	72.616	73.979	91.656	0.00	0.00
ATOM	33160	O	GLN	2215	71.918	73.034	92.052	0.00	0.00
ATOM	33161	N	PRO	2216	73.188	73.797	90.457	0.00	0.00
ATOM	33162	CD	PRO	2216	72.883	72.782	89.552	0.00	0.00
ATOM	33163	HD2	PRO	2216	72.558	71.846	90.005	0.00	0.00
ATOM	33164	HD3	PRO	2216	72.233	73.055	88.720	0.00	0.00
ATOM	33165	CG	PRO	2216	74.260	72.457	89.085	0.00	0.00
ATOM	33166	HG2	PRO	2216	74.734	71.914	89.903	0.00	0.00
ATOM	33167	HG3	PRO	2216	74.147	71.874	88.171	0.00	0.00

ATOM 33168	CB PRO 2216	75.018	73.784	88.912	0.00	0.00
ATOM 33169	HB2 PRO 2216	76.059	73.637	89.198	0.00	0.00
ATOM 33170	HB3 PRO 2216	74.857	74.091	87.879	0.00	0.00
ATOM 33171	CA PRO 2216	74.277	74.634	89.917	0.00	0.00
ATOM 33172	HA PRO 2216	75.001	74.914	90.682	0.00	0.00
ATOM 33173	C PRO 2216	73.813	75.926	89.275	0.00	0.00
ATOM 33174	O PRO 2216	72.966	75.846	88.367	0.00	0.00
ATOM 33175	N VAL 2217	74.420	77.041	89.587	0.00	0.00
ATOM 33176	H VAL 2217	75.061	77.041	90.367	0.00	0.00
ATOM 33177	CA VAL 2217	74.321	78.312	88.925	0.00	0.00
ATOM 33178	HA VAL 2217	73.425	78.198	88.315	0.00	0.00
ATOM 33179	CB VAL 2217	74.131	79.485	89.987	0.00	0.00
ATOM 33180	HB VAL 2217	74.993	79.588	90.645	0.00	0.00
ATOM 33181	CG1 VAL 2217	73.863	80.737	89.150	0.00	0.00
ATOM 33182	1HG1 VAL 2217	73.125	80.337	88.455	0.00	0.00
ATOM 33183	2HG1 VAL 2217	73.617	81.695	89.607	0.00	0.00
ATOM 33184	3HG1 VAL 2217	74.797	80.831	88.596	0.00	0.00
ATOM 33185	CG2 VAL 2217	72.970	79.408	91.017	0.00	0.00
ATOM 33186	1HG2 VAL 2217	73.002	80.247	91.712	0.00	0.00
ATOM 33187	2HG2 VAL 2217	71.951	79.338	90.637	0.00	0.00
ATOM 33188	3HG2 VAL 2217	73.072	78.510	91.626	0.00	0.00
ATOM 33189	C VAL 2217	75.463	78.575	88.019	0.00	0.00
ATOM 33190	O VAL 2217	76.638	78.675	88.454	0.00	0.00
ATOM 33191	N HIE 2218	75.159	78.645	86.723	0.00	0.00
ATOM 33192	H HIE 2218	74.185	78.763	86.483	0.00	0.00
ATOM 33193	CA HIE 2218	76.051	79.085	85.612	0.00	0.00



ATOM	33194	HA	HIE	2218	76.719	79.811	86.075	0.00	0.00
ATOM	33195	CB	HIE	2218	76.790	77.846	84.981	0.00	0.00
ATOM	33196	HB2	HIE	2218	77.334	78.172	84.094	0.00	0.00
ATOM	33197	HB3	HIE	2218	77.481	77.496	85.749	0.00	0.00
ATOM	33198	CG	HIE	2218	75.934	76.719	84.439	0.00	0.00
ATOM	33199	ND1	HIE	2218	75.427	76.629	83.134	0.00	0.00
ATOM	33200	CE1	HIE	2218	74.710	75.443	83.086	0.00	0.00
ATOM	33201	HE1	HIE	2218	74.241	75.038	82.202	0.00	0.00
ATOM	33202	NE2	HIE	2218	74.741	74.802	84.295	0.00	0.00
ATOM	33203	HE2	HIE	2218	74.333	73.936	84.618	0.00	0.00
ATOM	33204	CD2	HIE	2218	75.604	75.521	85.124	0.00	0.00
ATOM	33205	HD2	HIE	2218	75.846	75.308	86.155	0.00	0.00
ATOM	33206	C	HIE	2218	75.302	79.970	84.592	0.00	0.00
ATOM	33207	O	HIE	2218	74.099	80.069	84.797	0.00	0.00
ATOM	33208	N	TYR	2219	75.922	80.565	83.555	0.00	0.00
ATOM	33209	H	TYR	2219	76.912	80.408	83.435	0.00	0.00
ATOM	33210	CA	TYR	2219	75.231	81.399	82.591	0.00	0.00
ATOM	33211	HA	TYR	2219	74.515	81.994	83.158	0.00	0.00
ATOM	33212	CB	TYR	2219	76.260	82.261	81.964	0.00	0.00
ATOM	33213	HB2	TYR	2219	77.095	81.697	81.546	0.00	0.00
ATOM	33214	HB3	TYR	2219	75.627	82.704	81.195	0.00	0.00
ATOM	33215	CG	TYR	2219	76.776	83.402	82.824	0.00	0.00
ATOM	33216	CD1	TYR	2219	77.889	83.097	83.648	0.00	0.00
ATOM	33217	HD1	TYR	2219	78.385	82.164	83.425	0.00	0.00
ATOM	33218	CE1	TYR	2219	78.400	84.045	84.557	0.00	0.00
ATOM	33219	HE1	TYR	2219	79.297	83.981	85.155	0.00	0.00

ATOM	33220	CZ	TYR	2219	77.696	85.291	84.655	0.00	0.00
ATOM	33221	OH	TYR	2219	78.077	86.271	85.586	0.00	0.00
ATOM	33222	HH	TYR	2219	77.446	86.993	85.532	0.00	0.00
ATOM	33223	CE2	TYR	2219	76.499	85.529	83.894	0.00	0.00
ATOM	33224	HE2	TYR	2219	76.009	86.482	84.027	0.00	0.00
ATOM	33225	CD2	TYR	2219	76.079	84.577	82.963	0.00	0.00
ATOM	33226	HD2	TYR	2219	75.201	84.733	82.354	0.00	0.00
ATOM	33227	C	TYR	2219	74.315	80.645	81.531	0.00	0.00
ATOM	33228	O	TYR	2219	74.798	80.159	80.573	0.00	0.00
ATOM	33229	N	ARG	2220	73.055	80.619	81.735	0.00	0.00
ATOM	33230	H	ARG	2220	72.596	81.112	82.487	0.00	0.00
ATOM	33231	CA	ARG	2220	72.113	80.010	80.733	0.00	0.00
ATOM	33232	HA	ARG	2220	72.709	79.377	80.075	0.00	0.00
ATOM	33233	CB	ARG	2220	71.061	79.191	81.518	0.00	0.00
ATOM	33234	HB2	ARG	2220	70.376	79.870	82.025	0.00	0.00
ATOM	33235	HB3	ARG	2220	70.490	78.557	80.839	0.00	0.00
ATOM	33236	CG	ARG	2220	71.650	78.316	82.659	0.00	0.00
ATOM	33237	HG2	ARG	2220	72.462	77.753	82.199	0.00	0.00
ATOM	33238	HG3	ARG	2220	71.979	78.955	83.479	0.00	0.00
ATOM	33239	CD	ARG	2220	70.630	77.418	83.432	0.00	0.00
ATOM	33240	HD2	ARG	2220	70.328	76.602	82.774	0.00	0.00
ATOM	33241	HD3	ARG	2220	69.716	77.926	83.740	0.00	0.00
ATOM	33242	NE	ARG	2220	71.297	76.715	84.584	0.00	0.00
ATOM	33243	HE	ARG	2220	71.761	77.328	85.240	0.00	0.00
ATOM	33244	CZ	ARG	2220	71.482	75.438	84.850	0.00	0.00
ATOM	33245	NH1	ARG	2220	71.884	75.024	85.988	0.00	0.00

ATOM	33246	1HH1	ARG	2220	71.991	74.025	86.089	0.00	0.00
ATOM	33247	2HH1	ARG	2220	72.081	75.664	86.745	0.00	0.00
ATOM	33248	NH2	ARG	2220	71.154	74.436	84.095	0.00	0.00
ATOM	33249	1HH2	ARG	2220	71.498	73.562	84.467	0.00	0.00
ATOM	33250	2HH2	ARG	2220	70.845	74.629	83.153	0.00	0.00
ATOM	33251	C	ARG	2220	71.523	81.010	79.786	0.00	0.00
ATOM	33252	O	ARG	2220	71.333	82.154	80.239	0.00	0.00
ATOM	33253	N	PRO	2221	71.214	80.696	78.489	0.00	0.00
ATOM	33254	CD	PRO	2221	71.613	79.495	77.779	0.00	0.00
ATOM	33255	HD2	PRO	2221	71.498	78.532	78.277	0.00	0.00
ATOM	33256	HD3	PRO	2221	72.660	79.602	77.495	0.00	0.00
ATOM	33257	CG	PRO	2221	70.805	79.437	76.458	0.00	0.00
ATOM	33258	HG2	PRO	2221	71.423	78.915	75.727	0.00	0.00
ATOM	33259	HG3	PRO	2221	69.922	78.848	76.705	0.00	0.00
ATOM	33260	CB	PRO	2221	70.536	80.924	76.142	0.00	0.00
ATOM	33261	HB2	PRO	2221	71.434	81.263	75.625	0.00	0.00
ATOM	33262	HB3	PRO	2221	69.603	80.958	75.579	0.00	0.00
ATOM	33263	CA	PRO	2221	70.509	81.573	77.529	0.00	0.00
ATOM	33264	HA	PRO	2221	71.082	82.499	77.483	0.00	0.00
ATOM	33265	C	PRO	2221	69.128	81.806	77.991	0.00	0.00
ATOM	33266	O	PRO	2221	68.515	80.997	78.596	0.00	0.00
ATOM	33267	N	MET	2222	68.617	82.990	77.676	0.00	0.00
ATOM	33268	H	MET	2222	69.164	83.574	77.059	0.00	0.00
ATOM	33269	CA	MET	2222	67.373	83.638	78.057	0.00	0.00
ATOM	33270	HA	MET	2222	66.736	82.858	78.475	0.00	0.00
ATOM	33271	CB	MET	2222	67.597	84.794	79.050	0.00	0.00

ATOM	33272	HB2	MET	2222	68.327	85.511	78.674	0.00	0.00
ATOM	33273	HB3	MET	2222	66.665	85.312	79.278	0.00	0.00
ATOM	33274	CG	MET	2222	68.054	84.123	80.351	0.00	0.00
ATOM	33275	HG2	MET	2222	69.025	83.673	80.144	0.00	0.00
ATOM	33276	HG3	MET	2222	68.313	84.854	81.117	0.00	0.00
ATOM	33277	SD	MET	2222	66.950	82.923	81.201	0.00	0.00
ATOM	33278	CE	MET	2222	68.215	81.863	81.880	0.00	0.00
ATOM	33279	HE1	MET	2222	68.863	82.358	82.603	0.00	0.00
ATOM	33280	HE2	MET	2222	67.637	81.044	82.310	0.00	0.00
ATOM	33281	HE3	MET	2222	68.841	81.447	81.091	0.00	0.00
ATOM	33282	C	MET	2222	66.715	84.117	76.774	0.00	0.00
ATOM	33283	O	MET	2222	67.292	84.264	75.709	0.00	0.00
ATOM	33284	N	PHE	2223	65.424	84.372	76.864	0.00	0.00
ATOM	33285	H	PHE	2223	64.912	84.126	77.699	0.00	0.00
ATOM	33286	CA	PHE	2223	64.526	84.534	75.723	0.00	0.00
ATOM	33287	HA	PHE	2223	64.407	83.570	75.229	0.00	0.00
ATOM	33288	CB	PHE	2223	63.176	84.923	76.205	0.00	0.00
ATOM	33289	HB2	PHE	2223	63.225	85.825	76.815	0.00	0.00
ATOM	33290	HB3	PHE	2223	62.437	85.119	75.428	0.00	0.00
ATOM	33291	CG	PHE	2223	62.518	83.798	77.088	0.00	0.00
ATOM	33292	CD1	PHE	2223	62.533	83.915	78.472	0.00	0.00
ATOM	33293	HD1	PHE	2223	63.001	84.752	78.968	0.00	0.00
ATOM	33294	CE1	PHE	2223	62.167	82.877	79.297	0.00	0.00
ATOM	33295	HE1	PHE	2223	62.200	82.932	80.375	0.00	0.00
ATOM	33296	CZ	PHE	2223	61.713	81.658	78.790	0.00	0.00
ATOM	33297	HZ	PHE	2223	61.468	80.856	79.470	0.00	0.00

ATOM	33298	CE2	PHE	2223	61.464	81.546	77.411	0.00	0.00
ATOM	33299	HE2	PHE	2223	60.985	80.718	76.908	0.00	0.00
ATOM	33300	CD2	PHE	2223	61.890	82.642	76.573	0.00	0.00
ATOM	33301	HD2	PHE	2223	61.755	82.518	75.509	0.00	0.00
ATOM	33302	C	PHE	2223	64.943	85.476	74.623	0.00	0.00
ATOM	33303	O	PHE	2223	64.615	85.210	73.483	0.00	0.00
ATOM	33304	N	GLY	2224	65.809	86.497	74.872	0.00	0.00
ATOM	33305	H	GLY	2224	66.033	86.726	75.829	0.00	0.00
ATOM	33306	CA	GLY	2224	66.506	87.258	73.762	0.00	0.00
ATOM	33307	HA2	GLY	2224	65.813	87.689	73.039	0.00	0.00
ATOM	33308	HA3	GLY	2224	66.899	88.219	74.096	0.00	0.00
ATOM	33309	C	GLY	2224	67.512	86.576	72.846	0.00	0.00
ATOM	33310	O	GLY	2224	67.976	87.182	71.867	0.00	0.00
ATOM	33311	N	ALA	2225	67.895	85.361	73.156	0.00	0.00
ATOM	33312	H	ALA	2225	67.426	84.897	73.921	0.00	0.00
ATOM	33313	CA	ALA	2225	68.772	84.425	72.434	0.00	0.00
ATOM	33314	HA	ALA	2225	69.270	84.976	71.636	0.00	0.00
ATOM	33315	CB	ALA	2225	69.825	83.933	73.445	0.00	0.00
ATOM	33316	HB1	ALA	2225	70.339	84.801	73.858	0.00	0.00
ATOM	33317	HB2	ALA	2225	69.302	83.493	74.295	0.00	0.00
ATOM	33318	HB3	ALA	2225	70.465	83.173	72.998	0.00	0.00
ATOM	33319	C	ALA	2225	67.854	83.249	71.898	0.00	0.00
ATOM	33320	O	ALA	2225	68.286	82.148	71.884	0.00	0.00
ATOM	33321	N	LEU	2226	66.656	83.612	71.543	0.00	0.00
ATOM	33322	H	LEU	2226	66.303	84.483	71.915	0.00	0.00
ATOM	33323	CA	LEU	2226	65.715	82.527	71.113	0.00	0.00

ATOM	33324	HA	LEU	2226	66.305	81.675	70.773	0.00	0.00
ATOM	33325	CB	LEU	2226	64.861	82.070	72.282	0.00	0.00
ATOM	33326	HB2	LEU	2226	65.579	82.020	73.100	0.00	0.00
ATOM	33327	HB3	LEU	2226	64.168	82.894	72.454	0.00	0.00
ATOM	33328	CG	LEU	2226	64.108	80.771	72.120	0.00	0.00
ATOM	33329	HG	LEU	2226	63.396	80.971	71.319	0.00	0.00
ATOM	33330	CD1	LEU	2226	64.858	79.472	71.750	0.00	0.00
ATOM	33331	1HD1	LEU	2226	65.782	79.365	72.319	0.00	0.00
ATOM	33332	2HD1	LEU	2226	64.187	78.634	71.936	0.00	0.00
ATOM	33333	3HD1	LEU	2226	65.179	79.456	70.709	0.00	0.00
ATOM	33334	CD2	LEU	2226	63.398	80.541	73.494	0.00	0.00
ATOM	33335	1HD2	LEU	2226	63.995	80.190	74.337	0.00	0.00
ATOM	33336	2HD2	LEU	2226	62.855	81.424	73.828	0.00	0.00
ATOM	33337	3HD2	LEU	2226	62.700	79.724	73.310	0.00	0.00
ATOM	33338	C	LEU	2226	64.938	82.987	69.907	0.00	0.00
ATOM	33339	O	LEU	2226	64.401	84.087	69.884	0.00	0.00
ATOM	33340	N	GLY	2227	65.037	82.219	68.797	0.00	0.00
ATOM	33341	H	GLY	2227	65.658	81.422	68.810	0.00	0.00
ATOM	33342	CA	GLY	2227	64.192	82.352	67.658	0.00	0.00
ATOM	33343	HA2	GLY	2227	64.632	81.712	66.893	0.00	0.00
ATOM	33344	HA3	GLY	2227	63.200	81.935	67.828	0.00	0.00
ATOM	33345	C	GLY	2227	64.051	83.807	67.020	0.00	0.00
ATOM	33346	O	GLY	2227	64.982	84.537	66.651	0.00	0.00
ATOM	33347	N	SER	2228	62.832	84.199	66.803	0.00	0.00
ATOM	33348	H	SER	2228	62.038	83.666	67.128	0.00	0.00
ATOM	33349	CA	SER	2228	62.464	85.570	66.362	0.00	0.00

ATOM	33350	HA	SER	2228	63.241	85.866	65.657	0.00	0.00
ATOM	33351	CB	SER	2228	61.088	85.592	65.692	0.00	0.00
ATOM	33352	HB2	SER	2228	60.301	85.309	66.392	0.00	0.00
ATOM	33353	HB3	SER	2228	60.872	86.594	65.322	0.00	0.00
ATOM	33354	OG	SER	2228	61.079	84.688	64.620	0.00	0.00
ATOM	33355	HG	SER	2228	60.350	84.971	64.064	0.00	0.00
ATOM	33356	C	SER	2228	62.355	86.650	67.452	0.00	0.00
ATOM	33357	O	SER	2228	62.355	87.810	67.139	0.00	0.00
ATOM	33358	N	ALA	2229	62.407	86.217	68.761	0.00	0.00
ATOM	33359	H	ALA	2229	62.517	85.215	68.819	0.00	0.00
ATOM	33360	CA	ALA	2229	62.697	87.148	69.850	0.00	0.00
ATOM	33361	HA	ALA	2229	62.053	88.022	69.751	0.00	0.00
ATOM	33362	CB	ALA	2229	62.389	86.425	71.110	0.00	0.00
ATOM	33363	HB1	ALA	2229	62.959	85.519	71.317	0.00	0.00
ATOM	33364	HB2	ALA	2229	62.477	87.195	71.876	0.00	0.00
ATOM	33365	HB3	ALA	2229	61.317	86.248	71.022	0.00	0.00
ATOM	33366	C	ALA	2229	64.153	87.662	69.644	0.00	0.00
ATOM	33367	O	ALA	2229	64.452	88.880	69.783	0.00	0.00
ATOM	33368	N	ARG	2230	65.053	86.828	69.092	0.00	0.00
ATOM	33369	H	ARG	2230	64.837	85.851	68.960	0.00	0.00
ATOM	33370	CA	ARG	2230	66.487	87.162	68.895	0.00	0.00
ATOM	33371	HA	ARG	2230	66.706	87.711	69.810	0.00	0.00
ATOM	33372	CB	ARG	2230	67.408	85.939	68.931	0.00	0.00
ATOM	33373	HB2	ARG	2230	67.445	85.652	69.982	0.00	0.00
ATOM	33374	HB3	ARG	2230	67.060	85.069	68.374	0.00	0.00
ATOM	33375	CG	ARG	2230	68.913	86.215	68.552	0.00	0.00

ATOM	33376	HG2	ARG	2230	69.271	86.920	69.302	0.00	0.00
ATOM	33377	HG3	ARG	2230	69.046	86.631	67.553	0.00	0.00
ATOM	33378	CD	ARG	2230	69.698	84.908	68.382	0.00	0.00
ATOM	33379	HD2	ARG	2230	70.780	84.971	68.274	0.00	0.00
ATOM	33380	HD3	ARG	2230	69.671	84.338	69.310	0.00	0.00
ATOM	33381	NE	ARG	2230	69.400	84.281	67.102	0.00	0.00
ATOM	33382	HE	ARG	2230	69.084	84.897	66.367	0.00	0.00
ATOM	33383	CZ	ARG	2230	69.365	83.042	66.794	0.00	0.00
ATOM	33384	NH1	ARG	2230	69.779	82.064	67.549	0.00	0.00
ATOM	33385	1HH1	ARG	2230	69.742	81.126	67.177	0.00	0.00
ATOM	33386	2HH1	ARG	2230	70.311	82.207	68.396	0.00	0.00
ATOM	33387	NH2	ARG	2230	68.791	82.710	65.736	0.00	0.00
ATOM	33388	1HH2	ARG	2230	68.875	81.741	65.461	0.00	0.00
ATOM	33389	2HH2	ARG	2230	68.378	83.479	65.229	0.00	0.00
ATOM	33390	C	ARG	2230	66.641	88.181	67.779	0.00	0.00
ATOM	33391	O	ARG	2230	67.417	89.083	67.938	0.00	0.00
ATOM	33392	N	HIE	2231	65.919	87.937	66.688	0.00	0.00
ATOM	33393	H	HIE	2231	65.543	87.003	66.613	0.00	0.00
ATOM	33394	CA	HIE	2231	65.739	88.916	65.576	0.00	0.00
ATOM	33395	HA	HIE	2231	66.765	89.081	65.245	0.00	0.00
ATOM	33396	CB	HIE	2231	64.811	88.384	64.523	0.00	0.00
ATOM	33397	HB2	HIE	2231	63.996	87.931	65.088	0.00	0.00
ATOM	33398	HB3	HIE	2231	64.375	89.171	63.908	0.00	0.00
ATOM	33399	CG	HIE	2231	65.453	87.475	63.484	0.00	0.00
ATOM	33400	ND1	HIE	2231	64.865	86.236	63.044	0.00	0.00
ATOM	33401	CE1	HIE	2231	65.758	85.735	62.259	0.00	0.00



ATOM	33402	HE1	HIE	2231	65.678	84.853	61.642	0.00	0.00
ATOM	33403	NE2	HIE	2231	66.892	86.512	62.236	0.00	0.00
ATOM	33404	HE2	HIE	2231	67.806	86.197	61.944	0.00	0.00
ATOM	33405	CD2	HIE	2231	66.713	87.601	63.033	0.00	0.00
ATOM	33406	HD2	HIE	2231	67.304	88.484	63.231	0.00	0.00
ATOM	33407	C	HIE	2231	65.174	90.263	65.967	0.00	0.00
ATOM	33408	O	HIE	2231	65.760	91.239	65.489	0.00	0.00
ATOM	33409	N	HIE	2232	64.206	90.329	66.857	0.00	0.00
ATOM	33410	H	HIE	2232	63.868	89.414	67.119	0.00	0.00
ATOM	33411	CA	HIE	2232	63.516	91.527	67.353	0.00	0.00
ATOM	33412	HA	HIE	2232	63.348	92.303	66.606	0.00	0.00
ATOM	33413	CB	HIE	2232	62.079	91.204	67.813	0.00	0.00
ATOM	33414	HB2	HIE	2232	61.710	90.412	67.162	0.00	0.00
ATOM	33415	HB3	HIE	2232	62.023	90.996	68.882	0.00	0.00
ATOM	33416	CG	HIE	2232	61.131	92.275	67.581	0.00	0.00
ATOM	33417	ND1	HIE	2232	60.388	92.229	66.464	0.00	0.00
ATOM	33418	CE1	HIE	2232	59.662	93.327	66.450	0.00	0.00
ATOM	33419	HE1	HIE	2232	58.860	93.486	65.745	0.00	0.00
ATOM	33420	NE2	HIE	2232	59.900	94.015	67.566	0.00	0.00
ATOM	33421	HE2	HIE	2232	59.363	94.825	67.841	0.00	0.00
ATOM	33422	CD2	HIE	2232	60.879	93.376	68.301	0.00	0.00
ATOM	33423	HD2	HIE	2232	61.247	93.686	69.268	0.00	0.00
ATOM	33424	C	HIE	2232	64.305	92.272	68.389	0.00	0.00
ATOM	33425	O	HIE	2232	64.087	93.446	68.610	0.00	0.00
ATOM	33426	N	CYS	2233	65.453	91.827	68.807	0.00	0.00
ATOM	33427	H	CYS	2233	65.683	90.857	68.643	0.00	0.00

ATOM	33428	CA	CYS	2233	66.307	92.383	69.887	0.00	0.00
ATOM	33429	HA	CYS	2233	65.933	93.384	70.101	0.00	0.00
ATOM	33430	CB	CYS	2233	66.091	91.653	71.125	0.00	0.00
ATOM	33431	HB2	CYS	2233	66.093	90.566	71.047	0.00	0.00
ATOM	33432	HB3	CYS	2233	66.869	91.991	71.809	0.00	0.00
ATOM	33433	SG	CYS	2233	64.384	92.004	71.694	0.00	0.00
ATOM	33434	HG	CYS	2233	64.725	92.895	72.630	0.00	0.00
ATOM	33435	C	CYS	2233	67.829	92.585	69.559	0.00	0.00
ATOM	33436	O	CYS	2233	68.557	93.088	70.425	0.00	0.00
ATOM	33437	N	ARG	2234	68.204	92.211	68.328	0.00	0.00
ATOM	33438	H	ARG	2234	67.602	91.603	67.791	0.00	0.00
ATOM	33439	CA	ARG	2234	69.545	92.641	67.768	0.00	0.00
ATOM	33440	HA	ARG	2234	70.218	92.970	68.560	0.00	0.00
ATOM	33441	CB	ARG	2234	70.175	91.327	67.231	0.00	0.00
ATOM	33442	HB2	ARG	2234	71.256	91.450	67.161	0.00	0.00
ATOM	33443	HB3	ARG	2234	69.970	90.573	67.992	0.00	0.00
ATOM	33444	CG	ARG	2234	69.805	90.756	65.811	0.00	0.00
ATOM	33445	HG2	ARG	2234	68.730	90.622	65.686	0.00	0.00
ATOM	33446	HG3	ARG	2234	70.212	91.451	65.077	0.00	0.00
ATOM	33447	CD	ARG	2234	70.340	89.369	65.591	0.00	0.00
ATOM	33448	HD2	ARG	2234	70.031	88.716	66.408	0.00	0.00
ATOM	33449	HD3	ARG	2234	69.848	88.929	64.724	0.00	0.00
ATOM	33450	NE	ARG	2234	71.755	89.458	65.487	0.00	0.00
ATOM	33451	HE	ARG	2234	72.262	88.970	66.211	0.00	0.00
ATOM	33452	CZ	ARG	2234	72.404	89.988	64.479	0.00	0.00
ATOM	33453	NH1	ARG	2234	71.885	90.304	63.364	0.00	0.00

ATOM	33454	1HH1	ARG	2234	72.439	90.853	62.722	0.00	0.00
ATOM	33455	2HH1	ARG	2234	70.882	90.298	63.246	0.00	0.00
ATOM	33456	NH2	ARG	2234	73.685	90.101	64.598	0.00	0.00
ATOM	33457	1HH2	ARG	2234	74.241	90.428	63.821	0.00	0.00
ATOM	33458	2HH2	ARG	2234	74.105	90.010	65.512	0.00	0.00
ATOM	33459	C	ARG	2234	69.540	93.640	66.629	0.00	0.00
ATOM	33460	O	ARG	2234	68.554	93.705	65.878	0.00	0.00
ATOM	33461	N	LEU	2235	70.649	94.338	66.452	0.00	0.00
ATOM	33462	H	LEU	2235	71.460	94.192	67.036	0.00	0.00
ATOM	33463	CA	LEU	2235	70.906	95.273	65.348	0.00	0.00
ATOM	33464	HA	LEU	2235	70.041	95.401	64.697	0.00	0.00
ATOM	33465	CB	LEU	2235	71.347	96.661	65.806	0.00	0.00
ATOM	33466	HB2	LEU	2235	72.111	96.627	66.583	0.00	0.00
ATOM	33467	HB3	LEU	2235	71.788	97.118	64.920	0.00	0.00
ATOM	33468	CG	LEU	2235	70.242	97.576	66.338	0.00	0.00
ATOM	33469	HG	LEU	2235	69.766	97.269	67.270	0.00	0.00
ATOM	33470	CD1	LEU	2235	70.972	98.881	66.601	0.00	0.00
ATOM	33471	1HD1	LEU	2235	71.684	98.744	67.414	0.00	0.00
ATOM	33472	2HD1	LEU	2235	71.330	99.348	65.683	0.00	0.00
ATOM	33473	3HD1	LEU	2235	70.250	99.602	66.982	0.00	0.00
ATOM	33474	CD2	LEU	2235	69.180	97.887	65.244	0.00	0.00
ATOM	33475	1HD2	LEU	2235	68.532	98.686	65.605	0.00	0.00
ATOM	33476	2HD2	LEU	2235	69.624	98.162	64.287	0.00	0.00
ATOM	33477	3HD2	LEU	2235	68.523	97.019	65.200	0.00	0.00
ATOM	33478	C	LEU	2235	71.905	94.720	64.302	0.00	0.00
ATOM	33479	O	LEU	2235	72.894	94.160	64.766	0.00	0.00

ATOM	33480	N	THR	2236	71.589	94.753	62.984	0.00	0.00
ATOM	33481	H	THR	2236	70.703	95.166	62.727	0.00	0.00
ATOM	33482	CA	THR	2236	72.672	94.511	61.966	0.00	0.00
ATOM	33483	HA	THR	2236	73.573	94.072	62.395	0.00	0.00
ATOM	33484	CB	THR	2236	72.124	93.682	60.883	0.00	0.00
ATOM	33485	HB	THR	2236	71.281	94.258	60.501	0.00	0.00
ATOM	33486	CG2	THR	2236	73.098	93.316	59.757	0.00	0.00
ATOM	33487	1HG2	THR	2236	72.521	92.799	58.990	0.00	0.00
ATOM	33488	2HG2	THR	2236	73.586	94.131	59.223	0.00	0.00
ATOM	33489	3HG2	THR	2236	73.990	92.779	60.080	0.00	0.00
ATOM	33490	OG1	THR	2236	71.571	92.493	61.423	0.00	0.00
ATOM	33491	HG1	THR	2236	71.051	92.081	60.728	0.00	0.00
ATOM	33492	C	THR	2236	73.133	95.843	61.329	0.00	0.00
ATOM	33493	O	THR	2236	72.266	96.568	60.847	0.00	0.00
ATOM	33494	N	PHE	2237	74.443	96.194	61.569	0.00	0.00
ATOM	33495	H	PHE	2237	75.096	95.470	61.834	0.00	0.00
ATOM	33496	CA	PHE	2237	75.017	97.472	61.048	0.00	0.00
ATOM	33497	HA	PHE	2237	74.185	98.160	61.205	0.00	0.00
ATOM	33498	CB	PHE	2237	76.195	97.967	61.874	0.00	0.00
ATOM	33499	HB2	PHE	2237	77.023	97.275	61.722	0.00	0.00
ATOM	33500	HB3	PHE	2237	76.496	98.971	61.576	0.00	0.00
ATOM	33501	CG	PHE	2237	75.800	98.231	63.360	0.00	0.00
ATOM	33502	CD1	PHE	2237	76.488	97.634	64.403	0.00	0.00
ATOM	33503	HD1	PHE	2237	77.268	96.900	64.267	0.00	0.00
ATOM	33504	CE1	PHE	2237	76.028	97.830	65.735	0.00	0.00
ATOM	33505	HE1	PHE	2237	76.476	97.224	66.509	0.00	0.00

ATOM	33506	CZ	PHE	2237	74.927	98.642	65.973	0.00	0.00
ATOM	33507	HZ	PHE	2237	74.568	98.693	66.990	0.00	0.00
ATOM	33508	CE2	PHE	2237	74.258	99.309	64.918	0.00	0.00
ATOM	33509	HE2	PHE	2237	73.405	99.958	65.048	0.00	0.00
ATOM	33510	CD2	PHE	2237	74.694	99.072	63.588	0.00	0.00
ATOM	33511	HD2	PHE	2237	74.200	99.518	62.737	0.00	0.00
ATOM	33512	C	PHE	2237	75.334	97.331	59.533	0.00	0.00
ATOM	33513	O	PHE	2237	75.920	96.299	59.109	0.00	0.00
ATOM	33514	N	LEU	2238	75.011	98.344	58.793	0.00	0.00
ATOM	33515	H	LEU	2238	74.546	99.121	59.241	0.00	0.00
ATOM	33516	CA	LEU	2238	74.974	98.253	57.338	0.00	0.00
ATOM	33517	HA	LEU	2238	75.539	97.381	57.006	0.00	0.00
ATOM	33518	CB	LEU	2238	73.462	98.177	57.000	0.00	0.00
ATOM	33519	HB2	LEU	2238	72.914	98.785	57.720	0.00	0.00
ATOM	33520	HB3	LEU	2238	73.378	98.575	55.988	0.00	0.00
ATOM	33521	CG	LEU	2238	72.825	96.770	56.971	0.00	0.00
ATOM	33522	HG	LEU	2238	72.627	96.504	58.009	0.00	0.00
ATOM	33523	CD1	LEU	2238	71.463	96.892	56.264	0.00	0.00
ATOM	33524	1HD1	LEU	2238	71.424	97.514	55.370	0.00	0.00
ATOM	33525	2HD1	LEU	2238	71.078	95.926	55.938	0.00	0.00
ATOM	33526	3HD1	LEU	2238	70.707	97.344	56.907	0.00	0.00
ATOM	33527	CD2	LEU	2238	73.732	95.617	56.352	0.00	0.00
ATOM	33528	1HD2	LEU	2238	74.637	95.382	56.912	0.00	0.00
ATOM	33529	2HD2	LEU	2238	73.134	94.724	56.532	0.00	0.00
ATOM	33530	3HD2	LEU	2238	74.056	95.796	55.327	0.00	0.00
ATOM	33531	C	LEU	2238	75.603	99.569	56.781	0.00	0.00

ATOM	33532	O	LEU	2238	75.460	100.635	57.361	0.00	0.00
ATOM	33533	N	SER	2239	76.271	99.552	55.611	0.00	0.00
ATOM	33534	H	SER	2239	76.270	98.682	55.098	0.00	0.00
ATOM	33535	CA	SER	2239	76.781	100.680	54.856	0.00	0.00
ATOM	33536	HA	SER	2239	77.132	101.508	55.472	0.00	0.00
ATOM	33537	CB	SER	2239	78.001	100.334	54.000	0.00	0.00
ATOM	33538	HB2	SER	2239	78.626	101.177	53.708	0.00	0.00
ATOM	33539	HB3	SER	2239	78.626	99.660	54.585	0.00	0.00
ATOM	33540	OG	SER	2239	77.623	99.677	52.939	0.00	0.00
ATOM	33541	HG	SER	2239	78.178	99.071	52.443	0.00	0.00
ATOM	33542	C	SER	2239	75.726	101.329	53.998	0.00	0.00
ATOM	33543	O	SER	2239	74.746	100.703	53.624	0.00	0.00
ATOM	33544	N	GLN	2240	75.851	102.665	53.674	0.00	0.00
ATOM	33545	H	GLN	2240	76.688	103.063	54.075	0.00	0.00
ATOM	33546	CA	GLN	2240	74.933	103.551	52.885	0.00	0.00
ATOM	33547	HA	GLN	2240	73.923	103.447	53.281	0.00	0.00
ATOM	33548	CB	GLN	2240	75.375	105.024	52.869	0.00	0.00
ATOM	33549	HB2	GLN	2240	76.447	105.119	52.695	0.00	0.00
ATOM	33550	HB3	GLN	2240	74.841	105.561	52.084	0.00	0.00
ATOM	33551	CG	GLN	2240	75.092	105.594	54.268	0.00	0.00
ATOM	33552	HG2	GLN	2240	74.024	105.727	54.439	0.00	0.00
ATOM	33553	HG3	GLN	2240	75.502	104.906	55.008	0.00	0.00
ATOM	33554	CD	GLN	2240	75.825	106.932	54.544	0.00	0.00
ATOM	33555	OE1	GLN	2240	76.015	107.688	53.563	0.00	0.00
ATOM	33556	NE2	GLN	2240	76.309	107.259	55.654	0.00	0.00
ATOM	33557	1HE2	GLN	2240	77.180	107.768	55.703	0.00	0.00

ATOM	33558	2HE2	GLN	2240	76.074	106.663	56.435	0.00	0.00
ATOM	33559	C	GLN	2240	74.790	103.014	51.421	0.00	0.00
ATOM	33560	O	GLN	2240	73.648	102.990	50.935	0.00	0.00
ATOM	33561	N	ALA	2241	75.910	102.616	50.849	0.00	0.00
ATOM	33562	H	ALA	2241	76.770	102.754	51.360	0.00	0.00
ATOM	33563	CA	ALA	2241	76.035	101.935	49.533	0.00	0.00
ATOM	33564	HA	ALA	2241	75.315	102.431	48.882	0.00	0.00
ATOM	33565	CB	ALA	2241	77.384	101.870	48.879	0.00	0.00
ATOM	33566	HB1	ALA	2241	77.363	101.288	47.958	0.00	0.00
ATOM	33567	HB2	ALA	2241	77.671	102.864	48.537	0.00	0.00
ATOM	33568	HB3	ALA	2241	78.066	101.558	49.670	0.00	0.00
ATOM	33569	C	ALA	2241	75.320	100.550	49.497	0.00	0.00
ATOM	33570	O	ALA	2241	74.576	100.286	48.554	0.00	0.00
ATOM	33571	N	ALA	2242	75.435	99.770	50.534	0.00	0.00
ATOM	33572	H	ALA	2242	75.857	100.129	51.379	0.00	0.00
ATOM	33573	CA	ALA	2242	74.687	98.471	50.683	0.00	0.00
ATOM	33574	HA	ALA	2242	74.729	97.820	49.809	0.00	0.00
ATOM	33575	CB	ALA	2242	75.328	97.631	51.860	0.00	0.00
ATOM	33576	HB1	ALA	2242	76.120	97.013	51.435	0.00	0.00
ATOM	33577	HB2	ALA	2242	75.672	98.388	52.565	0.00	0.00
ATOM	33578	HB3	ALA	2242	74.488	97.099	52.307	0.00	0.00
ATOM	33579	C	ALA	2242	73.247	98.631	50.998	0.00	0.00
ATOM	33580	O	ALA	2242	72.411	97.868	50.434	0.00	0.00
ATOM	33581	N	ALA	2243	72.789	99.668	51.745	0.00	0.00
ATOM	33582	H	ALA	2243	73.481	100.196	52.256	0.00	0.00
ATOM	33583	CA	ALA	2243	71.333	99.991	51.836	0.00	0.00

ATOM	33584	HA	ALA	2243	70.928	99.016	52.108	0.00	0.00
ATOM	33585	CB	ALA	2243	71.093	101.035	52.951	0.00	0.00
ATOM	33586	HB1	ALA	2243	71.573	100.747	53.886	0.00	0.00
ATOM	33587	HB2	ALA	2243	71.568	101.974	52.667	0.00	0.00
ATOM	33588	HB3	ALA	2243	70.027	101.150	53.150	0.00	0.00
ATOM	33589	C	ALA	2243	70.720	100.507	50.543	0.00	0.00
ATOM	33590	O	ALA	2243	69.641	100.079	50.178	0.00	0.00
ATOM	33591	N	ALA	2244	71.468	101.331	49.844	0.00	0.00
ATOM	33592	H	ALA	2244	72.270	101.780	50.262	0.00	0.00
ATOM	33593	CA	ALA	2244	71.157	101.906	48.570	0.00	0.00
ATOM	33594	HA	ALA	2244	70.290	102.527	48.795	0.00	0.00
ATOM	33595	CB	ALA	2244	72.268	102.834	48.005	0.00	0.00
ATOM	33596	HB1	ALA	2244	73.227	102.316	47.966	0.00	0.00
ATOM	33597	HB2	ALA	2244	71.934	103.257	47.058	0.00	0.00
ATOM	33598	HB3	ALA	2244	72.426	103.682	48.671	0.00	0.00
ATOM	33599	C	ALA	2244	70.817	100.858	47.550	0.00	0.00
ATOM	33600	O	ALA	2244	69.808	100.961	46.917	0.00	0.00
ATOM	33601	N	ASN	2245	71.679	99.827	47.417	0.00	0.00
ATOM	33602	H	ASN	2245	72.516	99.905	47.976	0.00	0.00
ATOM	33603	CA	ASN	2245	71.470	98.627	46.520	0.00	0.00
ATOM	33604	HA	ASN	2245	71.171	99.015	45.546	0.00	0.00
ATOM	33605	CB	ASN	2245	72.849	97.905	46.413	0.00	0.00
ATOM	33606	HB2	ASN	2245	73.599	98.571	45.987	0.00	0.00
ATOM	33607	HB3	ASN	2245	73.163	97.599	47.410	0.00	0.00
ATOM	33608	CG	ASN	2245	72.707	96.555	45.592	0.00	0.00
ATOM	33609	OD1	ASN	2245	72.623	95.510	46.183	0.00	0.00



ATOM	33610	ND2	ASN	2245	72.517	96.648	44.308	0.00	0.00
ATOM	33611	1HD2	ASN	2245	72.559	95.787	43.781	0.00	0.00
ATOM	33612	2HD2	ASN	2245	72.417	97.565	43.899	0.00	0.00
ATOM	33613	C	ASN	2245	70.386	97.661	47.085	0.00	0.00
ATOM	33614	O	ASN	2245	69.523	97.066	46.396	0.00	0.00
ATOM	33615	N	GLY	2246	70.310	97.604	48.426	0.00	0.00
ATOM	33616	H	GLY	2246	70.845	98.265	48.971	0.00	0.00
ATOM	33617	CA	GLY	2246	69.111	97.117	49.101	0.00	0.00
ATOM	33618	HA2	GLY	2246	68.946	97.614	50.057	0.00	0.00
ATOM	33619	HA3	GLY	2246	68.248	97.093	48.435	0.00	0.00
ATOM	33620	C	GLY	2246	69.339	95.668	49.540	0.00	0.00
ATOM	33621	O	GLY	2246	68.490	94.841	49.330	0.00	0.00
ATOM	33622	N	VAL	2247	70.482	95.371	50.179	0.00	0.00
ATOM	33623	H	VAL	2247	71.216	96.062	50.254	0.00	0.00
ATOM	33624	CA	VAL	2247	70.984	94.015	50.491	0.00	0.00
ATOM	33625	HA	VAL	2247	70.896	93.434	49.573	0.00	0.00
ATOM	33626	CB	VAL	2247	72.461	94.049	51.130	0.00	0.00
ATOM	33627	HB	VAL	2247	72.607	92.975	51.247	0.00	0.00
ATOM	33628	CG1	VAL	2247	73.536	94.528	50.207	0.00	0.00
ATOM	33629	1HG1	VAL	2247	73.322	95.560	49.928	0.00	0.00
ATOM	33630	2HG1	VAL	2247	74.573	94.500	50.543	0.00	0.00
ATOM	33631	3HG1	VAL	2247	73.625	93.881	49.335	0.00	0.00
ATOM	33632	CG2	VAL	2247	72.690	94.758	52.489	0.00	0.00
ATOM	33633	1HG2	VAL	2247	72.484	95.828	52.521	0.00	0.00
ATOM	33634	2HG2	VAL	2247	71.986	94.310	53.190	0.00	0.00
ATOM	33635	3HG2	VAL	2247	73.721	94.715	52.841	0.00	0.00

ATOM	33636	C	VAL	2247	70.125	93.204	51.500	0.00	0.00
ATOM	33637	O	VAL	2247	70.023	92.052	51.474	0.00	0.00
ATOM	33638	N	ALA	2248	69.466	93.913	52.498	0.00	0.00
ATOM	33639	H	ALA	2248	69.725	94.879	52.636	0.00	0.00
ATOM	33640	CA	ALA	2248	68.680	93.297	53.575	0.00	0.00
ATOM	33641	HA	ALA	2248	69.216	92.466	54.033	0.00	0.00
ATOM	33642	CB	ALA	2248	68.447	94.364	54.579	0.00	0.00
ATOM	33643	HB1	ALA	2248	67.710	95.099	54.256	0.00	0.00
ATOM	33644	HB2	ALA	2248	67.945	93.989	55.472	0.00	0.00
ATOM	33645	HB3	ALA	2248	69.393	94.788	54.913	0.00	0.00
ATOM	33646	C	ALA	2248	67.381	92.721	52.931	0.00	0.00
ATOM	33647	O	ALA	2248	66.941	91.706	53.418	0.00	0.00
ATOM	33648	N	GLU	2249	66.854	93.257	51.858	0.00	0.00
ATOM	33649	H	GLU	2249	67.334	94.081	51.527	0.00	0.00
ATOM	33650	CA	GLU	2249	65.775	92.624	51.046	0.00	0.00
ATOM	33651	HA	GLU	2249	65.013	92.286	51.749	0.00	0.00
ATOM	33652	CB	GLU	2249	65.026	93.632	50.118	0.00	0.00
ATOM	33653	HB2	GLU	2249	64.679	94.496	50.685	0.00	0.00
ATOM	33654	HB3	GLU	2249	65.717	93.970	49.346	0.00	0.00
ATOM	33655	CG	GLU	2249	63.839	93.041	49.311	0.00	0.00
ATOM	33656	HG2	GLU	2249	64.079	92.037	48.961	0.00	0.00
ATOM	33657	HG3	GLU	2249	62.919	92.992	49.893	0.00	0.00
ATOM	33658	CD	GLU	2249	63.561	93.885	48.053	0.00	0.00
ATOM	33659	OE1	GLU	2249	63.713	95.128	48.132	0.00	0.00
ATOM	33660	OE2	GLU	2249	63.197	93.377	46.996	0.00	0.00
ATOM	33661	C	GLU	2249	66.166	91.416	50.129	0.00	0.00

ATOM	33662	O	GLU	2249	65.548	90.392	50.029	0.00	0.00
ATOM	33663	N	ARG	2250	67.339	91.508	49.507	0.00	0.00
ATOM	33664	H	ARG	2250	67.866	92.344	49.717	0.00	0.00
ATOM	33665	CA	ARG	2250	67.904	90.559	48.589	0.00	0.00
ATOM	33666	HA	ARG	2250	67.145	90.458	47.812	0.00	0.00
ATOM	33667	CB	ARG	2250	69.170	90.963	47.877	0.00	0.00
ATOM	33668	HB2	ARG	2250	69.010	91.812	47.212	0.00	0.00
ATOM	33669	HB3	ARG	2250	69.822	91.398	48.634	0.00	0.00
ATOM	33670	CG	ARG	2250	69.831	89.766	47.214	0.00	0.00
ATOM	33671	HG2	ARG	2250	70.388	89.209	47.967	0.00	0.00
ATOM	33672	HG3	ARG	2250	69.142	89.075	46.728	0.00	0.00
ATOM	33673	CD	ARG	2250	70.809	90.145	46.043	0.00	0.00
ATOM	33674	HD2	ARG	2250	71.120	89.243	45.516	0.00	0.00
ATOM	33675	HD3	ARG	2250	70.216	90.762	45.369	0.00	0.00
ATOM	33676	NE	ARG	2250	72.062	90.873	46.368	0.00	0.00
ATOM	33677	HE	ARG	2250	72.899	90.393	46.666	0.00	0.00
ATOM	33678	CZ	ARG	2250	72.298	92.195	46.305	0.00	0.00
ATOM	33679	NH1	ARG	2250	73.481	92.750	46.580	0.00	0.00
ATOM	33680	1HH1	ARG	2250	73.633	93.748	46.530	0.00	0.00
ATOM	33681	2HH1	ARG	2250	74.276	92.132	46.500	0.00	0.00
ATOM	33682	NH2	ARG	2250	71.361	92.987	45.987	0.00	0.00
ATOM	33683	1HH2	ARG	2250	71.717	93.932	45.977	0.00	0.00
ATOM	33684	2HH2	ARG	2250	70.550	92.780	45.423	0.00	0.00
ATOM	33685	C	ARG	2250	68.052	89.193	49.305	0.00	0.00
ATOM	33686	O	ARG	2250	67.759	88.095	48.775	0.00	0.00
ATOM	33687	N	LEU	2251	68.632	89.286	50.466	0.00	0.00

ATOM 33688	H	LEU	2251	68.947	90.175	50.827	0.00	0.00
ATOM 33689	CA	LEU	2251	68.914	88.175	51.286	0.00	0.00
ATOM 33690	HA	LEU	2251	68.924	87.339	50.586	0.00	0.00
ATOM 33691	CB	LEU	2251	70.288	88.344	51.937	0.00	0.00
ATOM 33692	HB2	LEU	2251	70.159	89.200	52.600	0.00	0.00
ATOM 33693	HB3	LEU	2251	70.502	87.516	52.614	0.00	0.00
ATOM 33694	CG	LEU	2251	71.483	88.587	50.946	0.00	0.00
ATOM 33695	HG	LEU	2251	71.151	89.310	50.200	0.00	0.00
ATOM 33696	CD1	LEU	2251	72.706	89.203	51.601	0.00	0.00
ATOM 33697	1HD1	LEU	2251	73.492	89.451	50.887	0.00	0.00
ATOM 33698	2HD1	LEU	2251	72.514	90.181	52.041	0.00	0.00
ATOM 33699	3HD1	LEU	2251	73.028	88.559	52.419	0.00	0.00
ATOM 33700	CD2	LEU	2251	71.933	87.328	50.172	0.00	0.00
ATOM 33701	1HD2	LEU	2251	72.691	87.704	49.484	0.00	0.00
ATOM 33702	2HD2	LEU	2251	72.482	86.652	50.827	0.00	0.00
ATOM 33703	3HD2	LEU	2251	71.098	86.760	49.762	0.00	0.00
ATOM 33704	C	LEU	2251	67.754	87.880	52.268	0.00	0.00
ATOM 33705	O	LEU	2251	67.809	86.888	52.932	0.00	0.00
ATOM 33706	N	ASN	2252	66.685	88.662	52.242	0.00	0.00
ATOM 33707	H	ASN	2252	66.687	89.485	51.656	0.00	0.00
ATOM 33708	CA	ASN	2252	65.620	88.491	53.215	0.00	0.00
ATOM 33709	HA	ASN	2252	65.012	89.396	53.234	0.00	0.00
ATOM 33710	CB	ASN	2252	64.750	87.314	52.716	0.00	0.00
ATOM 33711	HB2	ASN	2252	65.268	86.355	52.721	0.00	0.00
ATOM 33712	HB3	ASN	2252	64.433	87.580	51.707	0.00	0.00
ATOM 33713	CG	ASN	2252	63.454	87.069	53.410	0.00	0.00

ATOM 33714	OD1 ASN 2252	63.295	86.121	54.141	0.00	0.00
ATOM 33715	ND2 ASN 2252	62.483	87.870	53.168	0.00	0.00
ATOM 33716	1HD2 ASN 2252	61.642	87.614	53.666	0.00	0.00
ATOM 33717	2HD2 ASN 2252	62.602	88.797	52.784	0.00	0.00
ATOM 33718	C ASN 2252	66.094	88.383	54.698	0.00	0.00
ATOM 33719	O ASN 2252	65.475	87.625	55.448	0.00	0.00
ATOM 33720	N LEU 2253	67.047	89.173	55.086	0.00	0.00
ATOM 33721	H LEU 2253	67.385	89.892	54.462	0.00	0.00
ATOM 33722	CA LEU 2253	67.463	89.167	56.435	0.00	0.00
ATOM 33723	HA LEU 2253	67.796	88.171	56.728	0.00	0.00
ATOM 33724	CB LEU 2253	68.775	89.941	56.624	0.00	0.00
ATOM 33725	HB2 LEU 2253	68.555	90.965	56.320	0.00	0.00
ATOM 33726	HB3 LEU 2253	69.113	89.906	57.660	0.00	0.00
ATOM 33727	CG LEU 2253	69.848	89.534	55.623	0.00	0.00
ATOM 33728	HG LEU 2253	69.533	89.888	54.641	0.00	0.00
ATOM 33729	CD1 LEU 2253	71.170	90.279	55.938	0.00	0.00
ATOM 33730	1HD1 LEU 2253	71.872	89.880	55.207	0.00	0.00
ATOM 33731	2HD1 LEU 2253	71.112	91.368	55.919	0.00	0.00
ATOM 33732	3HD1 LEU 2253	71.567	90.089	56.935	0.00	0.00
ATOM 33733	CD2 LEU 2253	70.202	88.030	55.719	0.00	0.00
ATOM 33734	1HD2 LEU 2253	69.395	87.432	55.294	0.00	0.00
ATOM 33735	2HD2 LEU 2253	71.054	87.883	55.055	0.00	0.00
ATOM 33736	3HD2 LEU 2253	70.521	87.697	56.706	0.00	0.00
ATOM 33737	C LEU 2253	66.373	89.757	57.395	0.00	0.00
ATOM 33738	O LEU 2253	65.567	90.574	56.946	0.00	0.00
ATOM 33739	N ARG 2254	66.312	89.232	58.660	0.00	0.00

ATOM	33740	H	ARG	2254	67.015	88.569	58.954	0.00	0.00
ATOM	33741	CA	ARG	2254	65.161	89.393	59.581	0.00	0.00
ATOM	33742	HA	ARG	2254	64.451	90.007	59.028	0.00	0.00
ATOM	33743	CB	ARG	2254	64.660	87.998	59.913	0.00	0.00
ATOM	33744	HB2	ARG	2254	65.505	87.433	60.307	0.00	0.00
ATOM	33745	HB3	ARG	2254	63.791	88.004	60.571	0.00	0.00
ATOM	33746	CG	ARG	2254	64.306	87.119	58.721	0.00	0.00
ATOM	33747	HG2	ARG	2254	63.659	87.715	58.078	0.00	0.00
ATOM	33748	HG3	ARG	2254	65.223	86.899	58.173	0.00	0.00
ATOM	33749	CD	ARG	2254	63.770	85.749	59.114	0.00	0.00
ATOM	33750	HD2	ARG	2254	63.620	85.201	58.185	0.00	0.00
ATOM	33751	HD3	ARG	2254	64.583	85.375	59.737	0.00	0.00
ATOM	33752	NE	ARG	2254	62.591	85.693	59.971	0.00	0.00
ATOM	33753	HE	ARG	2254	62.111	86.572	60.107	0.00	0.00
ATOM	33754	CZ	ARG	2254	62.012	84.579	60.436	0.00	0.00
ATOM	33755	NH1	ARG	2254	62.448	83.322	60.219	0.00	0.00
ATOM	33756	1HH1	ARG	2254	61.923	82.547	60.599	0.00	0.00
ATOM	33757	2HH1	ARG	2254	63.115	83.178	59.474	0.00	0.00
ATOM	33758	NH2	ARG	2254	61.032	84.732	61.280	0.00	0.00
ATOM	33759	1HH2	ARG	2254	60.623	83.906	61.692	0.00	0.00
ATOM	33760	2HH2	ARG	2254	60.837	85.700	61.495	0.00	0.00
ATOM	33761	C	ARG	2254	65.444	90.125	60.879	0.00	0.00
ATOM	33762	O	ARG	2254	64.535	90.534	61.554	0.00	0.00
ATOM	33763	N	SER	2255	66.734	90.412	61.153	0.00	0.00
ATOM	33764	H	SER	2255	67.480	90.142	60.528	0.00	0.00
ATOM	33765	CA	SER	2255	67.068	91.288	62.281	0.00	0.00

ATOM	33766	HA	SER	2255	66.763	90.807	63.210	0.00	0.00
ATOM	33767	CB	SER	2255	68.596	91.330	62.303	0.00	0.00
ATOM	33768	HB2	SER	2255	68.882	91.885	61.409	0.00	0.00
ATOM	33769	HB3	SER	2255	68.858	91.823	63.240	0.00	0.00
ATOM	33770	OG	SER	2255	69.164	90.019	62.425	0.00	0.00
ATOM	33771	HG	SER	2255	69.117	89.507	61.614	0.00	0.00
ATOM	33772	C	SER	2255	66.602	92.721	62.138	0.00	0.00
ATOM	33773	O	SER	2255	66.332	93.169	61.005	0.00	0.00
ATOM	33774	N	ALA	2256	66.540	93.542	63.172	0.00	0.00
ATOM	33775	H	ALA	2256	66.664	93.097	64.071	0.00	0.00
ATOM	33776	CA	ALA	2256	66.376	94.995	62.988	0.00	0.00
ATOM	33777	HA	ALA	2256	65.564	95.050	62.263	0.00	0.00
ATOM	33778	CB	ALA	2256	65.931	95.571	64.365	0.00	0.00
ATOM	33779	HB1	ALA	2256	65.895	96.657	64.453	0.00	0.00
ATOM	33780	HB2	ALA	2256	64.873	95.377	64.538	0.00	0.00
ATOM	33781	HB3	ALA	2256	66.585	95.213	65.160	0.00	0.00
ATOM	33782	C	ALA	2256	67.654	95.651	62.333	0.00	0.00
ATOM	33783	O	ALA	2256	68.792	95.418	62.750	0.00	0.00
ATOM	33784	N	ILE	2257	67.391	96.589	61.399	0.00	0.00
ATOM	33785	H	ILE	2257	66.458	96.637	61.016	0.00	0.00
ATOM	33786	CA	ILE	2257	68.482	97.257	60.721	0.00	0.00
ATOM	33787	HA	ILE	2257	69.380	96.675	60.929	0.00	0.00
ATOM	33788	CB	ILE	2257	68.376	97.227	59.169	0.00	0.00
ATOM	33789	HB	ILE	2257	69.302	97.671	58.804	0.00	0.00
ATOM	33790	CG2	ILE	2257	68.474	95.791	58.792	0.00	0.00
ATOM	33791	1HG2	ILE	2257	69.346	95.327	59.251	0.00	0.00

ATOM	33792	2HG2	ILE	2257	67.622	95.205	59.136	0.00	0.00
ATOM	33793	3HG2	ILE	2257	68.629	95.662	57.721	0.00	0.00
ATOM	33794	CG1	ILE	2257	67.155	97.837	58.519	0.00	0.00
ATOM	33795	2HG1	ILE	2257	67.171	97.575	57.461	0.00	0.00
ATOM	33796	3HG1	ILE	2257	66.222	97.388	58.858	0.00	0.00
ATOM	33797	CD1	ILE	2257	66.982	99.321	58.844	0.00	0.00
ATOM	33798	1HD1	ILE	2257	66.607	99.440	59.861	0.00	0.00
ATOM	33799	2HD1	ILE	2257	68.021	99.647	58.799	0.00	0.00
ATOM	33800	3HD1	ILE	2257	66.169	99.754	58.262	0.00	0.00
ATOM	33801	C	ILE	2257	68.901	98.682	61.314	0.00	0.00
ATOM	33802	O	ILE	2257	68.126	99.370	62.008	0.00	0.00
ATOM	33803	N	ALA	2258	70.156	99.053	61.078	0.00	0.00
ATOM	33804	H	ALA	2258	70.732	98.465	60.492	0.00	0.00
ATOM	33805	CA	ALA	2258	70.732	100.374	61.371	0.00	0.00
ATOM	33806	HA	ALA	2258	69.935	101.087	61.160	0.00	0.00
ATOM	33807	CB	ALA	2258	71.247	100.411	62.810	0.00	0.00
ATOM	33808	HB1	ALA	2258	70.336	100.379	63.406	0.00	0.00
ATOM	33809	HB2	ALA	2258	71.876	99.564	63.087	0.00	0.00
ATOM	33810	HB3	ALA	2258	71.848	101.303	62.986	0.00	0.00
ATOM	33811	C	ALA	2258	71.776	100.715	60.269	0.00	0.00
ATOM	33812	O	ALA	2258	72.736	99.958	60.140	0.00	0.00
ATOM	33813	N	VAL	2259	71.829	101.877	59.605	0.00	0.00
ATOM	33814	H	VAL	2259	71.091	102.531	59.824	0.00	0.00
ATOM	33815	CA	VAL	2259	72.837	102.412	58.721	0.00	0.00
ATOM	33816	HA	VAL	2259	73.352	101.480	58.488	0.00	0.00
ATOM	33817	CB	VAL	2259	72.231	102.903	57.368	0.00	0.00



ATOM 33818	HB	VAL 2259	71.481	103.675	57.540	0.00	0.00
ATOM 33819	CG1	VAL 2259	73.201	103.578	56.388	0.00	0.00
ATOM 33820	1HG1	VAL 2259	73.557	104.507	56.833	0.00	0.00
ATOM 33821	2HG1	VAL 2259	74.110	103.000	56.224	0.00	0.00
ATOM 33822	3HG1	VAL 2259	72.712	103.735	55.427	0.00	0.00
ATOM 33823	CG2	VAL 2259	71.488	101.727	56.685	0.00	0.00
ATOM 33824	1HG2	VAL 2259	72.277	101.059	56.341	0.00	0.00
ATOM 33825	2HG2	VAL 2259	70.793	101.277	57.394	0.00	0.00
ATOM 33826	3HG2	VAL 2259	71.010	102.050	55.760	0.00	0.00
ATOM 33827	C	VAL 2259	73.808	103.367	59.417	0.00	0.00
ATOM 33828	O	VAL 2259	73.385	104.257	60.126	0.00	0.00
ATOM 33829	N	VAL 2260	75.117	103.269	59.123	0.00	0.00
ATOM 33830	H	VAL 2260	75.259	102.598	58.381	0.00	0.00
ATOM 33831	CA	VAL 2260	76.305	104.035	59.547	0.00	0.00
ATOM 33832	HA	VAL 2260	76.197	104.204	60.618	0.00	0.00
ATOM 33833	CB	VAL 2260	77.666	103.363	59.301	0.00	0.00
ATOM 33834	HB	VAL 2260	78.478	103.896	59.796	0.00	0.00
ATOM 33835	CG1	VAL 2260	77.633	102.025	60.034	0.00	0.00
ATOM 33836	1HG1	VAL 2260	77.348	102.201	61.071	0.00	0.00
ATOM 33837	2HG1	VAL 2260	76.855	101.414	59.575	0.00	0.00
ATOM 33838	3HG1	VAL 2260	78.573	101.475	60.010	0.00	0.00
ATOM 33839	CG2	VAL 2260	78.162	103.107	57.892	0.00	0.00
ATOM 33840	1HG2	VAL 2260	78.089	103.992	57.259	0.00	0.00
ATOM 33841	2HG2	VAL 2260	79.205	102.836	58.058	0.00	0.00
ATOM 33842	3HG2	VAL 2260	77.618	102.249	57.498	0.00	0.00
ATOM 33843	C	VAL 2260	76.374	105.466	59.066	0.00	0.00

ATOM	33844	O	VAL	2260	76.005	105.724	57.914	0.00	0.00
ATOM	33845	N	LYS	2261	76.731	106.378	59.959	0.00	0.00
ATOM	33846	H	LYS	2261	77.068	105.965	60.817	0.00	0.00
ATOM	33847	CA	LYS	2261	76.746	107.858	59.771	0.00	0.00
ATOM	33848	HA	LYS	2261	76.798	108.123	58.715	0.00	0.00
ATOM	33849	CB	LYS	2261	75.436	108.508	60.254	0.00	0.00
ATOM	33850	HB2	LYS	2261	75.343	108.374	61.332	0.00	0.00
ATOM	33851	HB3	LYS	2261	75.508	109.594	60.195	0.00	0.00
ATOM	33852	CG	LYS	2261	74.163	108.161	59.486	0.00	0.00
ATOM	33853	HG2	LYS	2261	74.297	108.499	58.459	0.00	0.00
ATOM	33854	HG3	LYS	2261	74.049	107.077	59.492	0.00	0.00
ATOM	33855	CD	LYS	2261	72.876	108.767	60.171	0.00	0.00
ATOM	33856	HD2	LYS	2261	72.800	108.433	61.206	0.00	0.00
ATOM	33857	HD3	LYS	2261	72.876	109.854	60.251	0.00	0.00
ATOM	33858	CE	LYS	2261	71.615	108.236	59.444	0.00	0.00
ATOM	33859	HE2	LYS	2261	71.534	108.569	58.409	0.00	0.00
ATOM	33860	HE3	LYS	2261	71.930	107.210	59.251	0.00	0.00
ATOM	33861	NZ	LYS	2261	70.392	108.324	60.211	0.00	0.00
ATOM	33862	HZ1	LYS	2261	69.518	108.432	59.715	0.00	0.00
ATOM	33863	HZ2	LYS	2261	70.292	107.619	60.927	0.00	0.00
ATOM	33864	HZ3	LYS	2261	70.352	109.239	60.639	0.00	0.00
ATOM	33865	C	LYS	2261	77.904	108.274	60.621	0.00	0.00
ATOM	33866	O	LYS	2261	78.128	107.778	61.694	0.00	0.00
ATOM	33867	N	GLY	2262	78.691	109.146	60.046	0.00	0.00
ATOM	33868	H	GLY	2262	78.464	109.449	59.110	0.00	0.00
ATOM	33869	CA	GLY	2262	79.722	109.861	60.710	0.00	0.00

ATOM	33870	HA2	GLY	2262	79.769	110.903	60.394	0.00	0.00
ATOM	33871	HA3	GLY	2262	79.555	110.001	61.778	0.00	0.00
ATOM	33872	C	GLY	2262	81.094	109.234	60.469	0.00	0.00
ATOM	33873	O	GLY	2262	82.065	109.737	61.042	0.00	0.00
ATOM	33874	N	CYS	2263	81.263	108.236	59.613	0.00	0.00
ATOM	33875	H	CYS	2263	80.408	107.896	59.195	0.00	0.00
ATOM	33876	CA	CYS	2263	82.545	107.512	59.591	0.00	0.00
ATOM	33877	HA	CYS	2263	82.847	107.205	60.592	0.00	0.00
ATOM	33878	CB	CYS	2263	82.435	106.331	58.683	0.00	0.00
ATOM	33879	HB2	CYS	2263	81.982	106.585	57.725	0.00	0.00
ATOM	33880	HB3	CYS	2263	83.461	105.965	58.637	0.00	0.00
ATOM	33881	SG	CYS	2263	81.590	104.998	59.580	0.00	0.00
ATOM	33882	HG	CYS	2263	80.456	105.463	59.049	0.00	0.00
ATOM	33883	C	CYS	2263	83.677	108.363	58.953	0.00	0.00
ATOM	33884	O	CYS	2263	84.797	107.939	59.088	0.00	0.00
ATOM	33885	N	ARG	2264	83.430	109.525	58.275	0.00	0.00
ATOM	33886	H	ARG	2264	82.455	109.778	58.206	0.00	0.00
ATOM	33887	CA	ARG	2264	84.460	110.345	57.637	0.00	0.00
ATOM	33888	HA	ARG	2264	85.419	109.831	57.699	0.00	0.00
ATOM	33889	CB	ARG	2264	84.090	110.832	56.251	0.00	0.00
ATOM	33890	HB2	ARG	2264	83.077	111.231	56.299	0.00	0.00
ATOM	33891	HB3	ARG	2264	84.892	111.537	56.032	0.00	0.00
ATOM	33892	CG	ARG	2264	84.195	109.802	55.141	0.00	0.00
ATOM	33893	HG2	ARG	2264	83.529	109.025	55.516	0.00	0.00
ATOM	33894	HG3	ARG	2264	83.905	110.260	54.196	0.00	0.00
ATOM	33895	CD	ARG	2264	85.550	109.273	55.005	0.00	0.00

ATOM	33896	HD2	ARG	2264	85.834	108.965	53.999	0.00	0.00
ATOM	33897	HD3	ARG	2264	86.250	110.076	55.236	0.00	0.00
ATOM	33898	NE	ARG	2264	85.845	108.166	55.858	0.00	0.00
ATOM	33899	HE	ARG	2264	85.149	107.500	56.163	0.00	0.00
ATOM	33900	CZ	ARG	2264	87.029	107.777	56.207	0.00	0.00
ATOM	33901	NH1	ARG	2264	88.125	108.206	55.647	0.00	0.00
ATOM	33902	1HH1	ARG	2264	89.022	107.999	56.063	0.00	0.00
ATOM	33903	2HH1	ARG	2264	87.977	108.778	54.828	0.00	0.00
ATOM	33904	NH2	ARG	2264	87.133	107.056	57.247	0.00	0.00
ATOM	33905	1HH2	ARG	2264	88.056	106.789	57.559	0.00	0.00
ATOM	33906	2HH2	ARG	2264	86.329	107.025	57.858	0.00	0.00
ATOM	33907	C	ARG	2264	84.649	111.566	58.587	0.00	0.00
ATOM	33908	O	ARG	2264	85.785	111.981	58.797	0.00	0.00
ATOM	33909	N	THR	2265	83.604	112.077	59.251	0.00	0.00
ATOM	33910	H	THR	2265	82.714	111.598	59.232	0.00	0.00
ATOM	33911	CA	THR	2265	83.617	113.300	60.181	0.00	0.00
ATOM	33912	HA	THR	2265	84.253	114.004	59.644	0.00	0.00
ATOM	33913	CB	THR	2265	82.197	113.779	60.317	0.00	0.00
ATOM	33914	HB	THR	2265	82.260	114.650	60.969	0.00	0.00
ATOM	33915	CG2	THR	2265	81.398	114.214	59.101	0.00	0.00
ATOM	33916	1HG2	THR	2265	82.019	114.927	58.559	0.00	0.00
ATOM	33917	2HG2	THR	2265	81.294	113.394	58.391	0.00	0.00
ATOM	33918	3HG2	THR	2265	80.421	114.615	59.370	0.00	0.00
ATOM	33919	OG1	THR	2265	81.313	112.853	60.990	0.00	0.00
ATOM	33920	HG1	THR	2265	80.843	113.323	61.684	0.00	0.00
ATOM	33921	C	THR	2265	84.193	113.135	61.551	0.00	0.00

ATOM	33922	O	THR	2265	84.656	114.108	62.178	0.00	0.00
ATOM	33923	N	VAL	2266	84.205	111.933	62.052	0.00	0.00
ATOM	33924	H	VAL	2266	83.762	111.226	61.482	0.00	0.00
ATOM	33925	CA	VAL	2266	84.859	111.462	63.309	0.00	0.00
ATOM	33926	HA	VAL	2266	84.375	111.938	64.162	0.00	0.00
ATOM	33927	CB	VAL	2266	84.585	109.925	63.525	0.00	0.00
ATOM	33928	HB	VAL	2266	83.511	109.850	63.694	0.00	0.00
ATOM	33929	CG1	VAL	2266	84.968	109.115	62.317	0.00	0.00
ATOM	33930	1HG1	VAL	2266	86.044	109.189	62.158	0.00	0.00
ATOM	33931	2HG1	VAL	2266	84.619	108.101	62.512	0.00	0.00
ATOM	33932	3HG1	VAL	2266	84.537	109.425	61.365	0.00	0.00
ATOM	33933	CG2	VAL	2266	85.249	109.299	64.696	0.00	0.00
ATOM	33934	1HG2	VAL	2266	86.328	109.210	64.563	0.00	0.00
ATOM	33935	2HG2	VAL	2266	84.951	109.917	65.543	0.00	0.00
ATOM	33936	3HG2	VAL	2266	84.848	108.310	64.917	0.00	0.00
ATOM	33937	C	VAL	2266	86.306	111.964	63.404	0.00	0.00
ATOM	33938	O	VAL	2266	87.106	111.713	62.476	0.00	0.00
ATOM	33939	N	GLN	2267	86.725	112.523	64.504	0.00	0.00
ATOM	33940	H	GLN	2267	85.973	112.714	65.151	0.00	0.00
ATOM	33941	CA	GLN	2267	88.084	112.975	64.769	0.00	0.00
ATOM	33942	HA	GLN	2267	88.846	112.506	64.145	0.00	0.00
ATOM	33943	CB	GLN	2267	88.250	114.499	64.732	0.00	0.00
ATOM	33944	HB2	GLN	2267	87.521	114.819	65.476	0.00	0.00
ATOM	33945	HB3	GLN	2267	89.266	114.792	64.997	0.00	0.00
ATOM	33946	CG	GLN	2267	87.974	115.167	63.375	0.00	0.00
ATOM	33947	HG2	GLN	2267	86.970	115.012	62.981	0.00	0.00

ATOM	33948	HG3	GLN	2267	88.013	116.246	63.525	0.00	0.00
ATOM	33949	CD	GLN	2267	88.960	114.813	62.258	0.00	0.00
ATOM	33950	OE1	GLN	2267	90.016	115.325	62.081	0.00	0.00
ATOM	33951	NE2	GLN	2267	88.752	113.744	61.520	0.00	0.00
ATOM	33952	1HE2	GLN	2267	89.502	113.657	60.850	0.00	0.00
ATOM	33953	2HE2	GLN	2267	87.888	113.240	61.660	0.00	0.00
ATOM	33954	C	GLN	2267	88.519	112.478	66.082	0.00	0.00
ATOM	33955	O	GLN	2267	87.607	112.125	66.850	0.00	0.00
ATOM	33956	N	LYS	2268	89.750	112.646	66.470	0.00	0.00
ATOM	33957	H	LYS	2268	90.380	113.035	65.783	0.00	0.00
ATOM	33958	CA	LYS	2268	90.319	112.537	67.807	0.00	0.00
ATOM	33959	HA	LYS	2268	90.125	111.481	67.999	0.00	0.00
ATOM	33960	CB	LYS	2268	91.799	112.859	67.916	0.00	0.00
ATOM	33961	HB2	LYS	2268	92.405	112.255	67.241	0.00	0.00
ATOM	33962	HB3	LYS	2268	92.007	113.857	67.530	0.00	0.00
ATOM	33963	CG	LYS	2268	92.528	112.621	69.267	0.00	0.00
ATOM	33964	HG2	LYS	2268	93.604	112.779	69.202	0.00	0.00
ATOM	33965	HG3	LYS	2268	92.151	113.355	69.980	0.00	0.00
ATOM	33966	CD	LYS	2268	92.318	111.158	69.734	0.00	0.00
ATOM	33967	HD2	LYS	2268	91.369	111.137	70.269	0.00	0.00
ATOM	33968	HD3	LYS	2268	92.366	110.473	68.888	0.00	0.00
ATOM	33969	CE	LYS	2268	93.291	110.770	70.851	0.00	0.00
ATOM	33970	HE2	LYS	2268	92.994	111.495	71.609	0.00	0.00
ATOM	33971	HE3	LYS	2268	93.118	109.769	71.245	0.00	0.00
ATOM	33972	NZ	LYS	2268	94.722	110.938	70.380	0.00	0.00
ATOM	33973	HZ1	LYS	2268	95.354	110.240	70.747	0.00	0.00

ATOM	33974	HZ2	LYS	2268	94.827	110.860	69.379	0.00	0.00
ATOM	33975	HZ3	LYS	2268	95.059	111.811	70.760	0.00	0.00
ATOM	33976	C	LYS	2268	89.458	113.284	68.819	0.00	0.00
ATOM	33977	O	LYS	2268	89.315	112.898	69.997	0.00	0.00
ATOM	33978	N	ALA	2269	88.819	114.412	68.471	0.00	0.00
ATOM	33979	H	ALA	2269	89.005	114.782	67.550	0.00	0.00
ATOM	33980	CA	ALA	2269	87.992	115.237	69.354	0.00	0.00
ATOM	33981	HA	ALA	2269	88.494	115.171	70.319	0.00	0.00
ATOM	33982	CB	ALA	2269	87.755	116.615	68.867	0.00	0.00
ATOM	33983	HB1	ALA	2269	87.090	117.146	69.548	0.00	0.00
ATOM	33984	HB2	ALA	2269	88.715	117.109	68.716	0.00	0.00
ATOM	33985	HB3	ALA	2269	87.255	116.507	67.905	0.00	0.00
ATOM	33986	C	ALA	2269	86.685	114.505	69.771	0.00	0.00
ATOM	33987	O	ALA	2269	86.219	114.585	70.903	0.00	0.00
ATOM	33988	N	ASP	2270	86.128	113.673	68.882	0.00	0.00
ATOM	33989	H	ASP	2270	86.627	113.511	68.019	0.00	0.00
ATOM	33990	CA	ASP	2270	84.950	112.870	69.098	0.00	0.00
ATOM	33991	HA	ASP	2270	84.217	113.589	69.464	0.00	0.00
ATOM	33992	CB	ASP	2270	84.522	112.160	67.806	0.00	0.00
ATOM	33993	HB2	ASP	2270	85.364	111.558	67.465	0.00	0.00
ATOM	33994	HB3	ASP	2270	83.679	111.483	67.947	0.00	0.00
ATOM	33995	CG	ASP	2270	84.008	113.099	66.663	0.00	0.00
ATOM	33996	OD1	ASP	2270	82.825	113.044	66.397	0.00	0.00
ATOM	33997	OD2	ASP	2270	84.827	113.767	65.987	0.00	0.00
ATOM	33998	C	ASP	2270	85.128	111.892	70.249	0.00	0.00
ATOM	33999	O	ASP	2270	84.127	111.548	70.838	0.00	0.00

ATOM 34000	N	MET	2271	86.374	111.501	70.470	0.00	0.00
ATOM 34001	H	MET	2271	87.134	111.843	69.899	0.00	0.00
ATOM 34002	CA	MET	2271	86.647	110.600	71.511	0.00	0.00
ATOM 34003	HA	MET	2271	85.850	109.856	71.496	0.00	0.00
ATOM 34004	CB	MET	2271	88.026	109.853	71.285	0.00	0.00
ATOM 34005	HB2	MET	2271	88.869	110.526	71.445	0.00	0.00
ATOM 34006	HB3	MET	2271	88.171	109.001	71.950	0.00	0.00
ATOM 34007	CG	MET	2271	88.249	109.289	69.887	0.00	0.00
ATOM 34008	HG2	MET	2271	88.253	110.027	69.084	0.00	0.00
ATOM 34009	HG3	MET	2271	89.212	108.793	70.006	0.00	0.00
ATOM 34010	SD	MET	2271	87.168	107.975	69.326	0.00	0.00
ATOM 34011	CE	MET	2271	86.193	108.945	68.130	0.00	0.00
ATOM 34012	HE1	MET	2271	86.219	109.989	68.443	0.00	0.00
ATOM 34013	HE2	MET	2271	86.608	108.901	67.123	0.00	0.00
ATOM 34014	HE3	MET	2271	85.149	108.634	68.151	0.00	0.00
ATOM 34015	C	MET	2271	86.540	111.177	72.927	0.00	0.00
ATOM 34016	O	MET	2271	87.515	111.673	73.415	0.00	0.00
ATOM 34017	N	VAL	2272	85.455	111.021	73.716	0.00	0.00
ATOM 34018	H	VAL	2272	84.686	110.583	73.230	0.00	0.00
ATOM 34019	CA	VAL	2272	85.303	111.610	75.019	0.00	0.00
ATOM 34020	HA	VAL	2272	85.391	112.687	74.879	0.00	0.00
ATOM 34021	CB	VAL	2272	83.850	111.504	75.551	0.00	0.00
ATOM 34022	HB	VAL	2272	83.958	111.745	76.608	0.00	0.00
ATOM 34023	CG1	VAL	2272	82.784	112.429	74.867	0.00	0.00
ATOM 34024	1HG1	VAL	2272	83.296	113.390	74.813	0.00	0.00
ATOM 34025	2HG1	VAL	2272	82.511	112.052	73.881	0.00	0.00



ATOM	34026	3HG1	VAL	2272	81.881	112.485	75.475	0.00	0.00
ATOM	34027	CG2	VAL	2272	83.317	110.099	75.545	0.00	0.00
ATOM	34028	1HG2	VAL	2272	82.366	109.982	76.065	0.00	0.00
ATOM	34029	2HG2	VAL	2272	83.254	109.620	74.568	0.00	0.00
ATOM	34030	3HG2	VAL	2272	83.981	109.464	76.132	0.00	0.00
ATOM	34031	C	VAL	2272	86.319	111.190	76.078	0.00	0.00
ATOM	34032	O	VAL	2272	86.578	110.001	76.206	0.00	0.00
ATOM	34033	N	HIE	2273	86.849	112.193	76.810	0.00	0.00
ATOM	34034	H	HIE	2273	86.498	113.132	76.686	0.00	0.00
ATOM	34035	CA	HIE	2273	87.953	112.049	77.697	0.00	0.00
ATOM	34036	HA	HIE	2273	88.262	113.075	77.895	0.00	0.00
ATOM	34037	CB	HIE	2273	87.547	111.557	79.071	0.00	0.00
ATOM	34038	HB2	HIE	2273	87.589	110.469	79.037	0.00	0.00
ATOM	34039	HB3	HIE	2273	88.228	111.825	79.878	0.00	0.00
ATOM	34040	CG	HIE	2273	86.143	112.005	79.502	0.00	0.00
ATOM	34041	ND1	HIE	2273	85.769	113.176	80.248	0.00	0.00
ATOM	34042	CE1	HIE	2273	84.454	113.144	80.432	0.00	0.00
ATOM	34043	HE1	HIE	2273	83.896	113.853	81.026	0.00	0.00
ATOM	34044	NE2	HIE	2273	83.945	111.950	80.050	0.00	0.00
ATOM	34045	HE2	HIE	2273	83.033	111.557	80.233	0.00	0.00
ATOM	34046	CD2	HIE	2273	84.982	111.231	79.436	0.00	0.00
ATOM	34047	HD2	HIE	2273	84.834	110.211	79.113	0.00	0.00
ATOM	34048	C	HIE	2273	89.215	111.369	77.161	0.00	0.00
ATOM	34049	O	HIE	2273	90.126	111.040	77.848	0.00	0.00
ATOM	34050	N	ASN	2274	89.256	111.205	75.833	0.00	0.00
ATOM	34051	H	ASN	2274	88.539	111.696	75.318	0.00	0.00

ATOM 34052	CA	ASN 2274	90.224	110.368	75.083	0.00	0.00
ATOM 34053	HA	ASN 2274	91.057	110.127	75.744	0.00	0.00
ATOM 34054	CB	ASN 2274	89.512	109.052	74.803	0.00	0.00
ATOM 34055	HB2	ASN 2274	88.489	109.100	74.431	0.00	0.00
ATOM 34056	HB3	ASN 2274	90.085	108.587	74.000	0.00	0.00
ATOM 34057	CG	ASN 2274	89.553	108.181	75.992	0.00	0.00
ATOM 34058	OD1	ASN 2274	90.521	107.497	76.309	0.00	0.00
ATOM 34059	ND2	ASN 2274	88.508	108.029	76.743	0.00	0.00
ATOM 34060	1HD2	ASN 2274	88.500	107.365	77.504	0.00	0.00
ATOM 34061	2HD2	ASN 2274	87.696	108.615	76.613	0.00	0.00
ATOM 34062	C	ASN 2274	90.863	111.113	73.878	0.00	0.00
ATOM 34063	O	ASN 2274	91.152	110.449	72.888	0.00	0.00
ATOM 34064	N	SER 2275	90.938	112.406	73.892	0.00	0.00
ATOM 34065	H	SER 2275	90.757	112.829	74.791	0.00	0.00
ATOM 34066	CA	SER 2275	91.339	113.287	72.773	0.00	0.00
ATOM 34067	HA	SER 2275	91.281	112.581	71.945	0.00	0.00
ATOM 34068	CB	SER 2275	90.321	114.434	72.546	0.00	0.00
ATOM 34069	HB2	SER 2275	90.440	115.081	73.415	0.00	0.00
ATOM 34070	HB3	SER 2275	90.753	114.960	71.694	0.00	0.00
ATOM 34071	OG	SER 2275	88.979	113.952	72.522	0.00	0.00
ATOM 34072	HG	SER 2275	88.964	113.207	71.917	0.00	0.00
ATOM 34073	C	SER 2275	92.741	113.892	72.726	0.00	0.00
ATOM 34074	O	SER 2275	93.126	114.644	71.888	0.00	0.00
ATOM 34075	N	LEU 2276	93.567	113.477	73.717	0.00	0.00
ATOM 34076	H	LEU 2276	93.302	112.659	74.247	0.00	0.00
ATOM 34077	CA	LEU 2276	94.954	114.015	73.877	0.00	0.00

ATOM 34078	HA	LEU	2276	95.025	115.100	73.798	0.00	0.00
ATOM 34079	CB	LEU	2276	95.536	113.536	75.202	0.00	0.00
ATOM 34080	HB2	LEU	2276	94.851	113.849	75.989	0.00	0.00
ATOM 34081	HB3	LEU	2276	95.543	112.448	75.139	0.00	0.00
ATOM 34082	CG	LEU	2276	96.987	114.143	75.480	0.00	0.00
ATOM 34083	HG	LEU	2276	97.714	114.003	74.679	0.00	0.00
ATOM 34084	CD1	LEU	2276	96.886	115.656	75.736	0.00	0.00
ATOM 34085	1HD1	LEU	2276	96.268	115.897	76.601	0.00	0.00
ATOM 34086	2HD1	LEU	2276	97.880	116.087	75.860	0.00	0.00
ATOM 34087	3HD1	LEU	2276	96.437	116.164	74.882	0.00	0.00
ATOM 34088	CD2	LEU	2276	97.528	113.354	76.669	0.00	0.00
ATOM 34089	1HD2	LEU	2276	98.571	113.628	76.822	0.00	0.00
ATOM 34090	2HD2	LEU	2276	97.021	113.661	77.584	0.00	0.00
ATOM 34091	3HD2	LEU	2276	97.462	112.276	76.526	0.00	0.00
ATOM 34092	C	LEU	2276	95.838	113.607	72.662	0.00	0.00
ATOM 34093	O	LEU	2276	96.026	112.476	72.294	0.00	0.00
ATOM 34094	N	GLN	2277	96.488	114.663	72.056	0.00	0.00
ATOM 34095	H	GLN	2277	96.383	115.580	72.466	0.00	0.00
ATOM 34096	CA	GLN	2277	97.480	114.675	70.944	0.00	0.00
ATOM 34097	HA	GLN	2277	97.390	113.670	70.532	0.00	0.00
ATOM 34098	CB	GLN	2277	97.074	115.730	69.870	0.00	0.00
ATOM 34099	HB2	GLN	2277	97.469	116.736	70.009	0.00	0.00
ATOM 34100	HB3	GLN	2277	97.669	115.457	68.999	0.00	0.00
ATOM 34101	CG	GLN	2277	95.621	115.678	69.347	0.00	0.00
ATOM 34102	HG2	GLN	2277	95.445	114.604	69.282	0.00	0.00
ATOM 34103	HG3	GLN	2277	94.957	116.074	70.115	0.00	0.00

ATOM	34104	CD	GLN	2277	95.414	116.395	68.067	0.00	0.00
ATOM	34105	OE1	GLN	2277	96.193	116.929	67.396	0.00	0.00
ATOM	34106	NE2	GLN	2277	94.141	116.442	67.694	0.00	0.00
ATOM	34107	1HE2	GLN	2277	93.966	117.125	66.970	0.00	0.00
ATOM	34108	2HE2	GLN	2277	93.364	116.085	68.231	0.00	0.00
ATOM	34109	C	GLN	2277	98.988	114.780	71.454	0.00	0.00
ATOM	34110	O	GLN	2277	99.607	115.854	71.254	0.00	0.00
ATOM	34111	N	PRO	2278	99.548	113.763	72.169	0.00	0.00
ATOM	34112	CD	PRO	2278	99.025	112.387	72.344	0.00	0.00
ATOM	34113	HD2	PRO	2278	98.182	112.525	73.022	0.00	0.00
ATOM	34114	HD3	PRO	2278	98.579	111.973	71.440	0.00	0.00
ATOM	34115	CG	PRO	2278	100.194	111.636	72.975	0.00	0.00
ATOM	34116	HG2	PRO	2278	99.831	110.825	73.607	0.00	0.00
ATOM	34117	HG3	PRO	2278	100.852	111.260	72.191	0.00	0.00
ATOM	34118	CB	PRO	2278	100.914	112.718	73.783	0.00	0.00
ATOM	34119	HB2	PRO	2278	100.380	112.935	74.708	0.00	0.00
ATOM	34120	HB3	PRO	2278	101.965	112.528	73.997	0.00	0.00
ATOM	34121	CA	PRO	2278	100.809	113.934	72.913	0.00	0.00
ATOM	34122	HA	PRO	2278	100.696	114.817	73.543	0.00	0.00
ATOM	34123	C	PRO	2278	102.080	114.232	72.087	0.00	0.00
ATOM	34124	O	PRO	2278	102.245	113.760	70.954	0.00	0.00
ATOM	34125	N	ASN	2279	103.004	114.835	72.793	0.00	0.00
ATOM	34126	H	ASN	2279	102.742	115.114	73.728	0.00	0.00
ATOM	34127	CA	ASN	2279	104.408	115.150	72.305	0.00	0.00
ATOM	34128	HA	ASN	2279	104.400	115.363	71.236	0.00	0.00
ATOM	34129	CB	ASN	2279	104.984	116.396	72.929	0.00	0.00

ATOM	34130	HB2 ASN	2279	104.307	117.153	72.532	0.00	0.00
ATOM	34131	HB3 ASN	2279	104.950	116.329	74.017	0.00	0.00
ATOM	34132	CG ASN	2279	106.444	116.793	72.642	0.00	0.00
ATOM	34133	OD1 ASN	2279	107.123	116.193	71.858	0.00	0.00
ATOM	34134	ND2 ASN	2279	106.825	117.970	73.149	0.00	0.00
ATOM	34135	1HD2 ASN	2279	107.724	118.369	72.919	0.00	0.00
ATOM	34136	2HD2 ASN	2279	106.127	118.497	73.654	0.00	0.00
ATOM	34137	C ASN	2279	105.259	113.944	72.627	0.00	0.00
ATOM	34138	O ASN	2279	106.089	113.915	73.513	0.00	0.00
ATOM	34139	N ILE	2280	104.831	112.867	71.927	0.00	0.00
ATOM	34140	H ILE	2280	104.064	112.893	71.272	0.00	0.00
ATOM	34141	CA ILE	2280	105.309	111.506	72.207	0.00	0.00
ATOM	34142	HA ILE	2280	105.772	111.483	73.193	0.00	0.00
ATOM	34143	CB ILE	2280	104.112	110.511	72.272	0.00	0.00
ATOM	34144	HB ILE	2280	103.524	110.974	73.065	0.00	0.00
ATOM	34145	CG2 ILE	2280	103.399	110.446	70.895	0.00	0.00
ATOM	34146	1HG2 ILE	2280	102.982	111.398	70.567	0.00	0.00
ATOM	34147	2HG2 ILE	2280	104.113	109.928	70.255	0.00	0.00
ATOM	34148	3HG2 ILE	2280	102.622	109.681	70.902	0.00	0.00
ATOM	34149	CG1 ILE	2280	104.457	109.110	72.708	0.00	0.00
ATOM	34150	2HG1 ILE	2280	105.072	108.700	71.907	0.00	0.00
ATOM	34151	3HG1 ILE	2280	105.074	109.144	73.606	0.00	0.00
ATOM	34152	CD1 ILE	2280	103.247	108.309	73.115	0.00	0.00
ATOM	34153	1HD1 ILE	2280	102.814	108.873	73.941	0.00	0.00
ATOM	34154	2HD1 ILE	2280	102.583	108.063	72.287	0.00	0.00
ATOM	34155	3HD1 ILE	2280	103.569	107.333	73.481	0.00	0.00

ATOM 34156 C ILE 2280 106.399 111.011 71.198 0.00 0.00  
ATOM 34157 O ILE 2280 106.355 111.178 69.992 0.00 0.00  
ATOM 34158 N THR 2281 107.365 110.289 71.740 0.00 0.00  
ATOM 34159 H THR 2281 107.293 110.305 72.747 0.00 0.00  
ATOM 34160 CA THR 2281 108.537 109.790 71.041 0.00 0.00  
ATOM 34161 HA THR 2281 108.241 109.590 70.011 0.00 0.00  
ATOM 34162 CB THR 2281 109.715 110.730 71.089 0.00 0.00  
ATOM 34163 HB THR 2281 110.526 110.379 70.451 0.00 0.00  
ATOM 34164 CG2 THR 2281 109.358 112.059 70.472 0.00 0.00  
ATOM 34165 1HG2 THR 2281 108.738 112.574 71.206 0.00 0.00  
ATOM 34166 2HG2 THR 2281 110.223 112.692 70.276 0.00 0.00  
ATOM 34167 3HG2 THR 2281 108.770 111.799 69.592 0.00 0.00  
ATOM 34168 OG1 THR 2281 110.207 110.901 72.387 0.00 0.00  
ATOM 34169 HG1 THR 2281 110.871 111.577 72.232 0.00 0.00  
ATOM 34170 C THR 2281 109.057 108.500 71.601 0.00 0.00  
ATOM 34171 O THR 2281 109.000 108.238 72.783 0.00 0.00  
ATOM 34172 N VAL 2282 109.792 107.796 70.740 0.00 0.00  
ATOM 34173 H VAL 2282 109.768 107.989 69.749 0.00 0.00  
ATOM 34174 CA VAL 2282 110.609 106.660 71.089 0.00 0.00  
ATOM 34175 HA VAL 2282 110.718 106.629 72.173 0.00 0.00  
ATOM 34176 CB VAL 2282 109.915 105.311 70.872 0.00 0.00  
ATOM 34177 HB VAL 2282 108.982 105.270 71.433 0.00 0.00  
ATOM 34178 CG1 VAL 2282 109.582 105.043 69.432 0.00 0.00  
ATOM 34179 1HG1 VAL 2282 109.216 105.895 68.859 0.00 0.00  
ATOM 34180 2HG1 VAL 2282 110.509 104.744 68.942 0.00 0.00  
ATOM 34181 3HG1 VAL 2282 108.898 104.201 69.320 0.00 0.00

ATOM	34182	CG2	VAL	2282	110.769	104.149	71.433	0.00	0.00
ATOM	34183	1HG2	VAL	2282	110.159	103.255	71.567	0.00	0.00
ATOM	34184	2HG2	VAL	2282	111.519	103.795	70.727	0.00	0.00
ATOM	34185	3HG2	VAL	2282	111.243	104.391	72.384	0.00	0.00
ATOM	34186	C	VAL	2282	111.933	106.716	70.428	0.00	0.00
ATOM	34187	O	VAL	2282	112.017	106.847	69.220	0.00	0.00
ATOM	34188	N	ASP	2283	113.019	106.464	71.168	0.00	0.00
ATOM	34189	H	ASP	2283	112.934	106.238	72.149	0.00	0.00
ATOM	34190	CA	ASP	2283	114.347	106.176	70.573	0.00	0.00
ATOM	34191	HA	ASP	2283	114.509	106.820	69.708	0.00	0.00
ATOM	34192	CB	ASP	2283	115.501	106.662	71.549	0.00	0.00
ATOM	34193	HB2	ASP	2283	115.187	107.692	71.720	0.00	0.00
ATOM	34194	HB3	ASP	2283	115.463	106.131	72.501	0.00	0.00
ATOM	34195	CG	ASP	2283	116.908	106.412	71.038	0.00	0.00
ATOM	34196	OD1	ASP	2283	117.395	107.291	70.333	0.00	0.00
ATOM	34197	OD2	ASP	2283	117.604	105.397	71.367	0.00	0.00
ATOM	34198	C	ASP	2283	114.445	104.757	70.018	0.00	0.00
ATOM	34199	O	ASP	2283	114.188	103.825	70.771	0.00	0.00
ATOM	34200	N	ALA	2284	114.762	104.614	68.692	0.00	0.00
ATOM	34201	H	ALA	2284	114.942	105.440	68.140	0.00	0.00
ATOM	34202	CA	ALA	2284	114.923	103.356	67.959	0.00	0.00
ATOM	34203	HA	ALA	2284	114.008	102.805	68.177	0.00	0.00
ATOM	34204	CB	ALA	2284	115.095	103.524	66.419	0.00	0.00
ATOM	34205	HB1	ALA	2284	115.110	102.558	65.914	0.00	0.00
ATOM	34206	HB2	ALA	2284	114.242	104.092	66.047	0.00	0.00
ATOM	34207	HB3	ALA	2284	116.062	104.026	66.384	0.00	0.00

ATOM	34208	C	ALA	2284	116.195	102.491	68.402	0.00	0.00
ATOM	34209	O	ALA	2284	116.245	101.331	68.061	0.00	0.00
ATOM	34210	N	GLN	2285	117.092	102.959	69.211	0.00	0.00
ATOM	34211	H	GLN	2285	117.045	103.946	69.417	0.00	0.00
ATOM	34212	CA	GLN	2285	118.244	102.217	69.774	0.00	0.00
ATOM	34213	HA	GLN	2285	118.458	101.316	69.199	0.00	0.00
ATOM	34214	CB	GLN	2285	119.427	103.099	69.599	0.00	0.00
ATOM	34215	HB2	GLN	2285	119.232	104.130	69.893	0.00	0.00
ATOM	34216	HB3	GLN	2285	120.155	102.653	70.276	0.00	0.00
ATOM	34217	CG	GLN	2285	120.021	103.070	68.195	0.00	0.00
ATOM	34218	HG2	GLN	2285	121.065	103.383	68.195	0.00	0.00
ATOM	34219	HG3	GLN	2285	120.019	102.065	67.773	0.00	0.00
ATOM	34220	CD	GLN	2285	119.278	103.888	67.187	0.00	0.00
ATOM	34221	OE1	GLN	2285	118.487	103.389	66.387	0.00	0.00
ATOM	34222	NE2	GLN	2285	119.338	105.182	67.352	0.00	0.00
ATOM	34223	1HE2	GLN	2285	118.593	105.638	66.846	0.00	0.00
ATOM	34224	2HE2	GLN	2285	119.870	105.572	68.116	0.00	0.00
ATOM	34225	C	GLN	2285	118.095	101.648	71.210	0.00	0.00
ATOM	34226	O	GLN	2285	118.327	100.455	71.487	0.00	0.00
ATOM	34227	N	THR	2286	117.638	102.542	72.040	0.00	0.00
ATOM	34228	H	THR	2286	117.611	103.500	71.720	0.00	0.00
ATOM	34229	CA	THR	2286	117.415	102.331	73.446	0.00	0.00
ATOM	34230	HA	THR	2286	118.218	101.691	73.811	0.00	0.00
ATOM	34231	CB	THR	2286	117.613	103.616	74.265	0.00	0.00
ATOM	34232	HB	THR	2286	117.372	103.376	75.301	0.00	0.00
ATOM	34233	CG2	THR	2286	119.062	104.113	74.222	0.00	0.00



ATOM	34234	1HG2	THR	2286	119.035	105.047	74.784	0.00	0.00
ATOM	34235	2HG2	THR	2286	119.801	103.518	74.758	0.00	0.00
ATOM	34236	3HG2	THR	2286	119.438	104.263	73.210	0.00	0.00
ATOM	34237	OG1	THR	2286	116.837	104.641	73.782	0.00	0.00
ATOM	34238	HG1	THR	2286	117.145	104.892	72.908	0.00	0.00
ATOM	34239	C	THR	2286	115.999	101.778	73.726	0.00	0.00
ATOM	34240	O	THR	2286	115.864	101.082	74.752	0.00	0.00
ATOM	34241	N	TYR	2287	115.002	101.926	72.874	0.00	0.00
ATOM	34242	H	TYR	2287	115.101	102.551	72.087	0.00	0.00
ATOM	34243	CA	TYR	2287	113.590	101.630	73.237	0.00	0.00
ATOM	34244	HA	TYR	2287	112.862	102.124	72.594	0.00	0.00
ATOM	34245	CB	TYR	2287	113.261	100.139	73.138	0.00	0.00
ATOM	34246	HB2	TYR	2287	113.744	99.676	73.999	0.00	0.00
ATOM	34247	HB3	TYR	2287	112.189	99.943	73.131	0.00	0.00
ATOM	34248	CG	TYR	2287	113.747	99.505	71.890	0.00	0.00
ATOM	34249	CD1	TYR	2287	113.306	100.009	70.661	0.00	0.00
ATOM	34250	HD1	TYR	2287	112.553	100.775	70.553	0.00	0.00
ATOM	34251	CE1	TYR	2287	113.794	99.364	69.499	0.00	0.00
ATOM	34252	HE1	TYR	2287	113.546	99.820	68.552	0.00	0.00
ATOM	34253	CZ	TYR	2287	114.503	98.179	69.546	0.00	0.00
ATOM	34254	OH	TYR	2287	114.827	97.412	68.459	0.00	0.00
ATOM	34255	HH	TYR	2287	114.229	97.622	67.739	0.00	0.00
ATOM	34256	CE2	TYR	2287	115.000	97.720	70.759	0.00	0.00
ATOM	34257	HE2	TYR	2287	115.619	96.835	70.780	0.00	0.00
ATOM	34258	CD2	TYR	2287	114.639	98.423	71.949	0.00	0.00
ATOM	34259	HD2	TYR	2287	115.067	98.185	72.912	0.00	0.00

ATOM	34260	C	TYR	2287	113.178	102.328	74.520	0.00	0.00
ATOM	34261	O	TYR	2287	112.710	101.742	75.502	0.00	0.00
ATOM	34262	N	GLU	2288	113.341	103.660	74.529	0.00	0.00
ATOM	34263	H	GLU	2288	113.873	104.075	73.777	0.00	0.00
ATOM	34264	CA	GLU	2288	112.881	104.458	75.555	0.00	0.00
ATOM	34265	HA	GLU	2288	112.513	103.866	76.393	0.00	0.00
ATOM	34266	CB	GLU	2288	114.117	105.228	76.204	0.00	0.00
ATOM	34267	HB2	GLU	2288	114.746	104.414	76.565	0.00	0.00
ATOM	34268	HB3	GLU	2288	114.526	105.946	75.493	0.00	0.00
ATOM	34269	CG	GLU	2288	113.755	105.932	77.505	0.00	0.00
ATOM	34270	HG2	GLU	2288	113.064	106.770	77.419	0.00	0.00
ATOM	34271	HG3	GLU	2288	113.195	105.270	78.166	0.00	0.00
ATOM	34272	CD	GLU	2288	114.964	106.562	78.226	0.00	0.00
ATOM	34273	OE1	GLU	2288	115.332	106.200	79.408	0.00	0.00
ATOM	34274	OE2	GLU	2288	115.525	107.502	77.606	0.00	0.00
ATOM	34275	C	GLU	2288	111.833	105.427	75.108	0.00	0.00
ATOM	34276	O	GLU	2288	112.019	106.127	74.077	0.00	0.00
ATOM	34277	N	VAL	2289	110.668	105.388	75.756	0.00	0.00
ATOM	34278	H	VAL	2289	110.573	104.903	76.637	0.00	0.00
ATOM	34279	CA	VAL	2289	109.495	106.107	75.292	0.00	0.00
ATOM	34280	HA	VAL	2289	109.456	106.368	74.234	0.00	0.00
ATOM	34281	CB	VAL	2289	108.313	105.195	75.575	0.00	0.00
ATOM	34282	HB	VAL	2289	108.253	105.040	76.652	0.00	0.00
ATOM	34283	CG1	VAL	2289	107.002	105.918	75.344	0.00	0.00
ATOM	34284	1HG1	VAL	2289	106.205	105.233	75.635	0.00	0.00
ATOM	34285	2HG1	VAL	2289	106.860	106.828	75.927	0.00	0.00

ATOM 34286 3HG1 VAL 2289 106.897 106.105 74.276 0.00 0.00  
ATOM 34287 CG2 VAL 2289 108.451 103.886 74.801 0.00 0.00  
ATOM 34288 1HG2 VAL 2289 109.343 103.323 75.078 0.00 0.00  
ATOM 34289 2HG2 VAL 2289 107.593 103.238 74.981 0.00 0.00  
ATOM 34290 3HG2 VAL 2289 108.558 104.052 73.729 0.00 0.00  
ATOM 34291 C VAL 2289 109.381 107.382 76.169 0.00 0.00  
ATOM 34292 O VAL 2289 109.525 107.231 77.422 0.00 0.00  
ATOM 34293 N ARG 2290 109.175 108.576 75.565 0.00 0.00  
ATOM 34294 H ARG 2290 109.009 108.516 74.570 0.00 0.00  
ATOM 34295 CA ARG 2290 108.973 109.823 76.370 0.00 0.00  
ATOM 34296 HA ARG 2290 108.759 109.611 77.418 0.00 0.00  
ATOM 34297 CB ARG 2290 110.341 110.601 76.333 0.00 0.00  
ATOM 34298 HB2 ARG 2290 110.690 110.604 75.301 0.00 0.00  
ATOM 34299 HB3 ARG 2290 110.166 111.606 76.717 0.00 0.00  
ATOM 34300 CG ARG 2290 111.397 109.986 77.261 0.00 0.00  
ATOM 34301 HG2 ARG 2290 111.135 110.050 78.317 0.00 0.00  
ATOM 34302 HG3 ARG 2290 111.471 108.902 77.169 0.00 0.00  
ATOM 34303 CD ARG 2290 112.806 110.589 76.955 0.00 0.00  
ATOM 34304 HD2 ARG 2290 113.120 110.426 75.925 0.00 0.00  
ATOM 34305 HD3 ARG 2290 112.866 111.642 77.228 0.00 0.00  
ATOM 34306 NE ARG 2290 113.779 109.965 77.909 0.00 0.00  
ATOM 34307 HE ARG 2290 114.302 109.151 77.618 0.00 0.00  
ATOM 34308 CZ ARG 2290 113.939 110.246 79.236 0.00 0.00  
ATOM 34309 NH1 ARG 2290 113.418 111.203 79.913 0.00 0.00  
ATOM 34310 1HH1 ARG 2290 113.484 111.391 80.903 0.00 0.00  
ATOM 34311 2HH1 ARG 2290 112.827 111.777 79.329 0.00 0.00

ATOM 34312 NH2 ARG 2290 114.641 109.382 79.894 0.00 0.00  
ATOM 34313 1HH2 ARG 2290 114.688 109.430 80.902 0.00 0.00  
ATOM 34314 2HH2 ARG 2290 115.072 108.557 79.500 0.00 0.00  
ATOM 34315 C ARG 2290 107.861 110.702 75.829 0.00 0.00  
ATOM 34316 O ARG 2290 107.347 110.592 74.702 0.00 0.00  
ATOM 34317 N VAL 2291 107.318 111.548 76.711 0.00 0.00  
ATOM 34318 H VAL 2291 107.806 111.597 77.594 0.00 0.00  
ATOM 34319 CA VAL 2291 106.279 112.503 76.394 0.00 0.00  
ATOM 34320 HA VAL 2291 106.195 112.574 75.309 0.00 0.00  
ATOM 34321 CB VAL 2291 104.877 111.995 76.946 0.00 0.00  
ATOM 34322 HB VAL 2291 105.103 111.661 77.959 0.00 0.00  
ATOM 34323 CG1 VAL 2291 103.691 112.982 77.014 0.00 0.00  
ATOM 34324 1HG1 VAL 2291 102.845 112.474 77.476 0.00 0.00  
ATOM 34325 2HG1 VAL 2291 103.919 113.877 77.592 0.00 0.00  
ATOM 34326 3HG1 VAL 2291 103.431 113.119 75.964 0.00 0.00  
ATOM 34327 CG2 VAL 2291 104.443 110.715 76.184 0.00 0.00  
ATOM 34328 1HG2 VAL 2291 104.580 110.816 75.107 0.00 0.00  
ATOM 34329 2HG2 VAL 2291 105.165 109.917 76.356 0.00 0.00  
ATOM 34330 3HG2 VAL 2291 103.470 110.396 76.560 0.00 0.00  
ATOM 34331 C VAL 2291 106.608 113.914 77.004 0.00 0.00  
ATOM 34332 O VAL 2291 106.583 114.121 78.208 0.00 0.00  
ATOM 34333 N ASP 2292 106.910 114.794 76.071 0.00 0.00  
ATOM 34334 H ASP 2292 106.980 114.499 75.107 0.00 0.00  
ATOM 34335 CA ASP 2292 107.513 116.091 76.376 0.00 0.00  
ATOM 34336 HA ASP 2292 107.445 116.574 75.401 0.00 0.00  
ATOM 34337 CB ASP 2292 106.532 117.001 77.185 0.00 0.00

ATOM	34338	HB2	ASP	2292	105.512	117.001	76.801	0.00	0.00
ATOM	34339	HB3	ASP	2292	106.437	116.671	78.219	0.00	0.00
ATOM	34340	CG	ASP	2292	106.991	118.414	77.173	0.00	0.00
ATOM	34341	OD1	ASP	2292	106.898	119.045	78.289	0.00	0.00
ATOM	34342	OD2	ASP	2292	107.338	119.055	76.119	0.00	0.00
ATOM	34343	C	ASP	2292	108.999	115.975	76.860	0.00	0.00
ATOM	34344	O	ASP	2292	109.521	116.846	77.552	0.00	0.00
ATOM	34345	N	GLY	2293	109.670	114.889	76.436	0.00	0.00
ATOM	34346	H	GLY	2293	109.220	114.312	75.740	0.00	0.00
ATOM	34347	CA	GLY	2293	110.945	114.540	77.033	0.00	0.00
ATOM	34348	HA2	GLY	2293	111.465	113.835	76.385	0.00	0.00
ATOM	34349	HA3	GLY	2293	111.553	115.441	77.121	0.00	0.00
ATOM	34350	C	GLY	2293	110.925	113.748	78.336	0.00	0.00
ATOM	34351	O	GLY	2293	111.920	113.238	78.814	0.00	0.00
ATOM	34352	N	GLU	2294	109.762	113.659	78.964	0.00	0.00
ATOM	34353	H	GLU	2294	108.987	114.026	78.431	0.00	0.00
ATOM	34354	CA	GLU	2294	109.567	112.976	80.264	0.00	0.00
ATOM	34355	HA	GLU	2294	110.498	112.992	80.829	0.00	0.00
ATOM	34356	CB	GLU	2294	108.411	113.597	81.056	0.00	0.00
ATOM	34357	HB2	GLU	2294	107.443	113.494	80.565	0.00	0.00
ATOM	34358	HB3	GLU	2294	108.289	113.102	82.020	0.00	0.00
ATOM	34359	CG	GLU	2294	108.601	115.120	81.263	0.00	0.00
ATOM	34360	HG2	GLU	2294	109.583	115.173	81.732	0.00	0.00
ATOM	34361	HG3	GLU	2294	108.571	115.663	80.318	0.00	0.00
ATOM	34362	CD	GLU	2294	107.528	115.713	82.247	0.00	0.00
ATOM	34363	OE1	GLU	2294	108.046	116.263	83.238	0.00	0.00

ATOM 34364 OE2 GLU 2294 106.337 115.555 82.174 0.00 0.00  
ATOM 34365 C GLU 2294 109.190 111.534 80.084 0.00 0.00  
ATOM 34366 O GLU 2294 108.656 111.156 79.012 0.00 0.00  
ATOM 34367 N LEU 2295 109.266 110.711 81.134 0.00 0.00  
ATOM 34368 H LEU 2295 109.774 111.068 81.930 0.00 0.00  
ATOM 34369 CA LEU 2295 108.788 109.299 81.207 0.00 0.00  
ATOM 34370 HA LEU 2295 108.688 108.933 80.185 0.00 0.00  
ATOM 34371 CB LEU 2295 109.743 108.438 81.980 0.00 0.00  
ATOM 34372 HB2 LEU 2295 109.781 108.799 83.008 0.00 0.00  
ATOM 34373 HB3 LEU 2295 109.318 107.436 82.038 0.00 0.00  
ATOM 34374 CG LEU 2295 111.244 108.365 81.436 0.00 0.00  
ATOM 34375 HG LEU 2295 111.567 109.367 81.153 0.00 0.00  
ATOM 34376 CD1 LEU 2295 112.164 107.743 82.470 0.00 0.00  
ATOM 34377 1HD1 LEU 2295 111.942 108.265 83.401 0.00 0.00  
ATOM 34378 2HD1 LEU 2295 111.908 106.702 82.670 0.00 0.00  
ATOM 34379 3HD1 LEU 2295 113.163 107.973 82.101 0.00 0.00  
ATOM 34380 CD2 LEU 2295 111.279 107.455 80.217 0.00 0.00  
ATOM 34381 1HD2 LEU 2295 112.302 107.332 79.861 0.00 0.00  
ATOM 34382 2HD2 LEU 2295 110.842 106.520 80.569 0.00 0.00  
ATOM 34383 3HD2 LEU 2295 110.670 107.861 79.409 0.00 0.00  
ATOM 34384 C LEU 2295 107.399 109.358 81.760 0.00 0.00  
ATOM 34385 O LEU 2295 107.063 110.159 82.659 0.00 0.00  
ATOM 34386 N ILE 2296 106.590 108.374 81.389 0.00 0.00  
ATOM 34387 H ILE 2296 106.953 107.715 80.715 0.00 0.00  
ATOM 34388 CA ILE 2296 105.341 108.010 82.001 0.00 0.00  
ATOM 34389 HA ILE 2296 105.331 108.587 82.925 0.00 0.00

ATOM 34390 CB ILE 2296 104.149 108.506 81.048 0.00 0.00  
ATOM 34391 HB ILE 2296 103.264 108.158 81.582 0.00 0.00  
ATOM 34392 CG2 ILE 2296 104.083 110.086 80.798 0.00 0.00  
ATOM 34393 1HG2 ILE 2296 103.157 110.329 80.276 0.00 0.00  
ATOM 34394 2HG2 ILE 2296 104.149 110.662 81.720 0.00 0.00  
ATOM 34395 3HG2 ILE 2296 104.905 110.314 80.120 0.00 0.00  
ATOM 34396 CG1 ILE 2296 104.244 107.755 79.663 0.00 0.00  
ATOM 34397 2HG1 ILE 2296 105.164 108.036 79.151 0.00 0.00  
ATOM 34398 3HG1 ILE 2296 104.325 106.672 79.754 0.00 0.00  
ATOM 34399 CD1 ILE 2296 103.110 108.000 78.635 0.00 0.00  
ATOM 34400 1HD1 ILE 2296 103.203 107.225 77.875 0.00 0.00  
ATOM 34401 2HD1 ILE 2296 102.097 107.932 79.033 0.00 0.00  
ATOM 34402 3HD1 ILE 2296 103.201 108.961 78.129 0.00 0.00  
ATOM 34403 C ILE 2296 105.282 106.537 82.381 0.00 0.00  
ATOM 34404 O ILE 2296 104.341 106.180 83.137 0.00 0.00  
ATOM 34405 N THR 2297 106.022 105.596 81.746 0.00 0.00  
ATOM 34406 H THR 2297 106.692 105.866 81.041 0.00 0.00  
ATOM 34407 CA THR 2297 105.976 104.199 82.090 0.00 0.00  
ATOM 34408 HA THR 2297 104.925 103.918 82.162 0.00 0.00  
ATOM 34409 CB THR 2297 106.560 103.215 81.005 0.00 0.00  
ATOM 34410 HB THR 2297 106.474 102.219 81.441 0.00 0.00  
ATOM 34411 CG2 THR 2297 105.878 103.268 79.669 0.00 0.00  
ATOM 34412 1HG2 THR 2297 105.923 104.261 79.222 0.00 0.00  
ATOM 34413 2HG2 THR 2297 106.152 102.507 78.938 0.00 0.00  
ATOM 34414 3HG2 THR 2297 104.798 103.192 79.789 0.00 0.00  
ATOM 34415 OG1 THR 2297 107.949 103.452 80.725 0.00 0.00

ATOM	34416	HG1	THR	2297	108.319	102.681	80.288	0.00	0.00
ATOM	34417	C	THR	2297	106.552	103.868	83.440	0.00	0.00
ATOM	34418	O	THR	2297	107.355	104.673	83.907	0.00	0.00
ATOM	34419	N	SER	2298	106.147	102.735	84.007	0.00	0.00
ATOM	34420	H	SER	2298	105.679	102.010	83.482	0.00	0.00
ATOM	34421	CA	SER	2298	106.552	102.258	85.372	0.00	0.00
ATOM	34422	HA	SER	2298	107.615	102.492	85.440	0.00	0.00
ATOM	34423	CB	SER	2298	105.771	102.906	86.488	0.00	0.00
ATOM	34424	HB2	SER	2298	106.236	102.713	87.455	0.00	0.00
ATOM	34425	HB3	SER	2298	105.772	103.982	86.314	0.00	0.00
ATOM	34426	OG	SER	2298	104.445	102.448	86.620	0.00	0.00
ATOM	34427	HG	SER	2298	103.893	102.917	85.990	0.00	0.00
ATOM	34428	C	SER	2298	106.431	100.695	85.551	0.00	0.00
ATOM	34429	O	SER	2298	105.647	100.041	84.877	0.00	0.00
ATOM	34430	N	GLU	2299	107.282	100.231	86.354	0.00	0.00
ATOM	34431	H	GLU	2299	107.841	100.947	86.796	0.00	0.00
ATOM	34432	CA	GLU	2299	107.441	98.921	86.943	0.00	0.00
ATOM	34433	HA	GLU	2299	108.373	98.487	86.581	0.00	0.00
ATOM	34434	CB	GLU	2299	107.586	99.094	88.499	0.00	0.00
ATOM	34435	HB2	GLU	2299	108.253	99.934	88.691	0.00	0.00
ATOM	34436	HB3	GLU	2299	106.606	99.376	88.883	0.00	0.00
ATOM	34437	CG	GLU	2299	108.075	97.891	89.286	0.00	0.00
ATOM	34438	HG2	GLU	2299	107.451	97.027	89.056	0.00	0.00
ATOM	34439	HG3	GLU	2299	109.035	97.682	88.816	0.00	0.00
ATOM	34440	CD	GLU	2299	108.191	98.132	90.731	0.00	0.00
ATOM	34441	OE1	GLU	2299	109.277	98.054	91.342	0.00	0.00



ATOM	34442	OE2	GLU	2299	107.147	98.545	91.313	0.00	0.00
ATOM	34443	C	GLU	2299	106.363	97.909	86.705	0.00	0.00
ATOM	34444	O	GLU	2299	105.270	98.153	87.160	0.00	0.00
ATOM	34445	N	PRO	2300	106.722	96.633	86.211	0.00	0.00
ATOM	34446	CD	PRO	2300	108.011	96.157	85.823	0.00	0.00
ATOM	34447	HD2	PRO	2300	108.600	96.803	85.172	0.00	0.00
ATOM	34448	HD3	PRO	2300	108.493	96.230	86.797	0.00	0.00
ATOM	34449	CG	PRO	2300	107.812	94.733	85.278	0.00	0.00
ATOM	34450	HG2	PRO	2300	108.465	94.582	84.418	0.00	0.00
ATOM	34451	HG3	PRO	2300	108.105	94.030	86.057	0.00	0.00
ATOM	34452	CB	PRO	2300	106.331	94.708	84.906	0.00	0.00
ATOM	34453	HB2	PRO	2300	106.267	94.934	83.842	0.00	0.00
ATOM	34454	HB3	PRO	2300	106.081	93.650	84.991	0.00	0.00
ATOM	34455	CA	PRO	2300	105.685	95.693	85.957	0.00	0.00
ATOM	34456	HA	PRO	2300	104.844	96.178	85.461	0.00	0.00
ATOM	34457	C	PRO	2300	105.239	94.855	87.133	0.00	0.00
ATOM	34458	O	PRO	2300	105.968	94.620	88.071	0.00	0.00
ATOM	34459	N	ALA	2301	103.989	94.536	87.159	0.00	0.00
ATOM	34460	H	ALA	2301	103.474	94.745	86.315	0.00	0.00
ATOM	34461	CA	ALA	2301	103.278	93.959	88.339	0.00	0.00
ATOM	34462	HA	ALA	2301	103.638	94.463	89.236	0.00	0.00
ATOM	34463	CB	ALA	2301	101.783	94.282	88.254	0.00	0.00
ATOM	34464	HB1	ALA	2301	101.464	94.298	89.296	0.00	0.00
ATOM	34465	HB2	ALA	2301	101.541	95.246	87.807	0.00	0.00
ATOM	34466	HB3	ALA	2301	101.231	93.555	87.658	0.00	0.00
ATOM	34467	C	ALA	2301	103.431	92.445	88.564	0.00	0.00

ATOM	34468	O	ALA	2301	103.525	91.703	87.573	0.00	0.00
ATOM	34469	N	ASP	2302	103.346	92.033	89.821	0.00	0.00
ATOM	34470	H	ASP	2302	103.463	92.761	90.511	0.00	0.00
ATOM	34471	CA	ASP	2302	103.687	90.663	90.253	0.00	0.00
ATOM	34472	HA	ASP	2302	104.107	90.078	89.435	0.00	0.00
ATOM	34473	CB	ASP	2302	104.771	90.703	91.327	0.00	0.00
ATOM	34474	HB2	ASP	2302	105.660	91.249	91.013	0.00	0.00
ATOM	34475	HB3	ASP	2302	104.387	91.309	92.148	0.00	0.00
ATOM	34476	CG	ASP	2302	105.292	89.361	91.804	0.00	0.00
ATOM	34477	OD1	ASP	2302	105.736	88.617	90.932	0.00	0.00
ATOM	34478	OD2	ASP	2302	105.158	89.050	93.028	0.00	0.00
ATOM	34479	C	ASP	2302	102.411	89.808	90.530	0.00	0.00
ATOM	34480	O	ASP	2302	102.287	88.717	90.056	0.00	0.00
ATOM	34481	N	VAL	2303	101.454	90.489	91.120	0.00	0.00
ATOM	34482	H	VAL	2303	101.696	91.361	91.568	0.00	0.00
ATOM	34483	CA	VAL	2303	100.071	89.929	91.527	0.00	0.00
ATOM	34484	HA	VAL	2303	99.602	89.233	90.831	0.00	0.00
ATOM	34485	CB	VAL	2303	100.068	89.399	92.977	0.00	0.00
ATOM	34486	HB	VAL	2303	99.073	88.975	93.108	0.00	0.00
ATOM	34487	CG1	VAL	2303	101.145	88.362	93.278	0.00	0.00
ATOM	34488	1HG1	VAL	2303	100.948	88.023	94.295	0.00	0.00
ATOM	34489	2HG1	VAL	2303	101.184	87.553	92.547	0.00	0.00
ATOM	34490	3HG1	VAL	2303	102.124	88.841	93.277	0.00	0.00
ATOM	34491	CG2	VAL	2303	100.395	90.557	93.959	0.00	0.00
ATOM	34492	1HG2	VAL	2303	99.686	91.381	93.881	0.00	0.00
ATOM	34493	2HG2	VAL	2303	100.401	90.160	94.974	0.00	0.00

ATOM 34494	3HG2	VAL	2303	101.345	91.077	93.838	0.00	0.00
ATOM 34495	C	VAL	2303	99.129	91.195	91.317	0.00	0.00
ATOM 34496	O	VAL	2303	99.609	92.318	91.528	0.00	0.00
ATOM 34497	N	LEU	2304	97.841	90.966	90.945	0.00	0.00
ATOM 34498	H	LEU	2304	97.574	90.049	90.616	0.00	0.00
ATOM 34499	CA	LEU	2304	96.767	91.981	90.690	0.00	0.00
ATOM 34500	HA	LEU	2304	96.954	92.801	91.383	0.00	0.00
ATOM 34501	CB	LEU	2304	96.853	92.331	89.195	0.00	0.00
ATOM 34502	HB2	LEU	2304	96.824	91.410	88.612	0.00	0.00
ATOM 34503	HB3	LEU	2304	95.973	92.910	88.918	0.00	0.00
ATOM 34504	CG	LEU	2304	98.077	93.252	88.744	0.00	0.00
ATOM 34505	HG	LEU	2304	99.040	92.841	89.046	0.00	0.00
ATOM 34506	CD1	LEU	2304	98.100	93.492	87.189	0.00	0.00
ATOM 34507	1HD1	LEU	2304	98.981	94.112	87.021	0.00	0.00
ATOM 34508	2HD1	LEU	2304	98.273	92.532	86.702	0.00	0.00
ATOM 34509	3HD1	LEU	2304	97.215	94.060	86.903	0.00	0.00
ATOM 34510	CD2	LEU	2304	97.989	94.506	89.392	0.00	0.00
ATOM 34511	1HD2	LEU	2304	97.140	95.100	89.052	0.00	0.00
ATOM 34512	2HD2	LEU	2304	97.883	94.544	90.476	0.00	0.00
ATOM 34513	3HD2	LEU	2304	98.931	94.969	89.099	0.00	0.00
ATOM 34514	C	LEU	2304	95.330	91.450	90.919	0.00	0.00
ATOM 34515	O	LEU	2304	95.013	90.237	90.887	0.00	0.00
ATOM 34516	N	PRO	2305	94.407	92.375	91.160	0.00	0.00
ATOM 34517	CD	PRO	2305	94.645	93.826	91.487	0.00	0.00
ATOM 34518	HD2	PRO	2305	95.134	94.329	90.653	0.00	0.00
ATOM 34519	HD3	PRO	2305	95.084	93.941	92.479	0.00	0.00

ATOM 34520	CG PRO 2305	93.209	94.496	91.520	0.00	0.00
ATOM 34521	HG2 PRO 2305	93.227	95.289	92.267	0.00	0.00
ATOM 34522	HG3 PRO 2305	92.913	94.728	90.497	0.00	0.00
ATOM 34523	CB PRO 2305	92.373	93.311	92.060	0.00	0.00
ATOM 34524	HB2 PRO 2305	92.666	93.224	93.106	0.00	0.00
ATOM 34525	HB3 PRO 2305	91.303	93.490	91.949	0.00	0.00
ATOM 34526	CA PRO 2305	92.951	92.062	91.298	0.00	0.00
ATOM 34527	HA PRO 2305	92.826	91.241	92.003	0.00	0.00
ATOM 34528	C PRO 2305	92.240	91.749	90.021	0.00	0.00
ATOM 34529	O PRO 2305	92.801	91.668	88.917	0.00	0.00
ATOM 34530	N MET 2306	90.996	91.398	90.322	0.00	0.00
ATOM 34531	H MET 2306	90.643	91.458	91.266	0.00	0.00
ATOM 34532	CA MET 2306	89.995	91.030	89.327	0.00	0.00
ATOM 34533	HA MET 2306	89.024	90.876	89.797	0.00	0.00
ATOM 34534	CB MET 2306	89.775	92.166	88.326	0.00	0.00
ATOM 34535	HB2 MET 2306	90.553	92.192	87.562	0.00	0.00
ATOM 34536	HB3 MET 2306	88.828	91.927	87.842	0.00	0.00
ATOM 34537	CG MET 2306	89.553	93.572	88.959	0.00	0.00
ATOM 34538	HG2 MET 2306	88.696	93.406	89.610	0.00	0.00
ATOM 34539	HG3 MET 2306	90.439	93.775	89.562	0.00	0.00
ATOM 34540	SD MET 2306	89.300	95.043	87.887	0.00	0.00
ATOM 34541	CE MET 2306	87.468	95.043	87.873	0.00	0.00
ATOM 34542	HE1 MET 2306	86.985	94.100	87.615	0.00	0.00
ATOM 34543	HE2 MET 2306	87.015	95.166	88.857	0.00	0.00
ATOM 34544	HE3 MET 2306	87.100	95.779	87.159	0.00	0.00
ATOM 34545	C MET 2306	90.217	89.605	88.638	0.00	0.00

ATOM 34546	O	MET	2306	89.634	89.323	87.562	0.00	0.00
ATOM 34547	N	ALA	2307	91.150	88.755	89.146	0.00	0.00
ATOM 34548	H	ALA	2307	91.646	89.147	89.934	0.00	0.00
ATOM 34549	CA	ALA	2307	91.633	87.449	88.630	0.00	0.00
ATOM 34550	HA	ALA	2307	91.020	87.350	87.734	0.00	0.00
ATOM 34551	CB	ALA	2307	93.068	87.616	88.062	0.00	0.00
ATOM 34552	HB1	ALA	2307	93.551	86.720	87.671	0.00	0.00
ATOM 34553	HB2	ALA	2307	93.167	88.268	87.194	0.00	0.00
ATOM 34554	HB3	ALA	2307	93.667	87.977	88.898	0.00	0.00
ATOM 34555	C	ALA	2307	91.261	86.170	89.385	0.00	0.00
ATOM 34556	O	ALA	2307	90.085	85.685	89.451	0.00	0.00
ATOM 34557	N	GLN	2308	92.258	85.524	90.037	0.00	0.00
ATOM 34558	H	GLN	2308	93.136	86.022	90.012	0.00	0.00
ATOM 34559	CA	GLN	2308	92.205	84.155	90.580	0.00	0.00
ATOM 34560	HA	GLN	2308	92.082	83.479	89.734	0.00	0.00
ATOM 34561	CB	GLN	2308	93.588	83.799	91.154	0.00	0.00
ATOM 34562	HB2	GLN	2308	94.017	84.605	91.749	0.00	0.00
ATOM 34563	HB3	GLN	2308	93.568	82.911	91.787	0.00	0.00
ATOM 34564	CG	GLN	2308	94.555	83.525	89.928	0.00	0.00
ATOM 34565	HG2	GLN	2308	94.091	82.788	89.272	0.00	0.00
ATOM 34566	HG3	GLN	2308	94.732	84.398	89.300	0.00	0.00
ATOM 34567	CD	GLN	2308	95.878	82.975	90.381	0.00	0.00
ATOM 34568	OE1	GLN	2308	96.296	82.901	91.545	0.00	0.00
ATOM 34569	NE2	GLN	2308	96.625	82.370	89.467	0.00	0.00
ATOM 34570	1HE2	GLN	2308	97.416	81.819	89.767	0.00	0.00
ATOM 34571	2HE2	GLN	2308	96.414	82.397	88.479	0.00	0.00

ATOM	34572	C	GLN	2308	91.141	83.953	91.642	0.00	0.00
ATOM	34573	O	GLN	2308	90.605	82.820	91.831	0.00	0.00
ATOM	34574	N	ARG	2309	90.796	85.036	92.351	0.00	0.00
ATOM	34575	H	ARG	2309	91.323	85.887	92.213	0.00	0.00
ATOM	34576	CA	ARG	2309	89.679	85.041	93.283	0.00	0.00
ATOM	34577	HA	ARG	2309	89.986	84.250	93.967	0.00	0.00
ATOM	34578	CB	ARG	2309	89.793	86.483	93.849	0.00	0.00
ATOM	34579	HB2	ARG	2309	90.833	86.802	93.916	0.00	0.00
ATOM	34580	HB3	ARG	2309	89.137	87.207	93.365	0.00	0.00
ATOM	34581	CG	ARG	2309	89.394	86.583	95.320	0.00	0.00
ATOM	34582	HG2	ARG	2309	88.465	86.041	95.500	0.00	0.00
ATOM	34583	HG3	ARG	2309	90.138	86.007	95.871	0.00	0.00
ATOM	34584	CD	ARG	2309	89.280	88.065	95.982	0.00	0.00
ATOM	34585	HD2	ARG	2309	88.528	88.624	95.425	0.00	0.00
ATOM	34586	HD3	ARG	2309	88.975	87.966	97.024	0.00	0.00
ATOM	34587	NE	ARG	2309	90.620	88.724	95.862	0.00	0.00
ATOM	34588	HE	ARG	2309	90.626	89.265	95.009	0.00	0.00
ATOM	34589	CZ	ARG	2309	91.759	88.441	96.410	0.00	0.00
ATOM	34590	NH1	ARG	2309	91.765	87.717	97.488	0.00	0.00
ATOM	34591	1HH1	ARG	2309	92.608	87.466	97.984	0.00	0.00
ATOM	34592	2HH1	ARG	2309	90.837	87.452	97.784	0.00	0.00
ATOM	34593	NH2	ARG	2309	92.838	88.831	95.823	0.00	0.00
ATOM	34594	1HH2	ARG	2309	93.740	88.597	96.211	0.00	0.00
ATOM	34595	2HH2	ARG	2309	92.736	89.497	95.071	0.00	0.00
ATOM	34596	C	ARG	2309	88.297	84.643	92.699	0.00	0.00
ATOM	34597	O	ARG	2309	87.437	84.256	93.470	0.00	0.00

ATOM 34598	N	TYR 2310	88.089	84.732	91.377	0.00	0.00
ATOM 34599	H	TYR 2310	88.800	84.997	90.710	0.00	0.00
ATOM 34600	CA	TYR 2310	86.802	84.687	90.707	0.00	0.00
ATOM 34601	HA	TYR 2310	86.002	84.549	91.434	0.00	0.00
ATOM 34602	CB	TYR 2310	86.492	86.082	90.038	0.00	0.00
ATOM 34603	HB2	TYR 2310	87.168	86.224	89.194	0.00	0.00
ATOM 34604	HB3	TYR 2310	85.483	86.018	89.631	0.00	0.00
ATOM 34605	CG	TYR 2310	86.641	87.152	91.039	0.00	0.00
ATOM 34606	CD1	TYR 2310	87.838	87.818	90.953	0.00	0.00
ATOM 34607	HD1	TYR 2310	88.691	87.440	90.409	0.00	0.00
ATOM 34608	CE1	TYR 2310	88.021	89.031	91.629	0.00	0.00
ATOM 34609	HE1	TYR 2310	89.000	89.477	91.527	0.00	0.00
ATOM 34610	CZ	TYR 2310	86.905	89.557	92.330	0.00	0.00
ATOM 34611	OH	TYR 2310	87.042	90.758	92.955	0.00	0.00
ATOM 34612	HH	TYR 2310	87.837	91.223	92.687	0.00	0.00
ATOM 34613	CE2	TYR 2310	85.700	88.903	92.496	0.00	0.00
ATOM 34614	HE2	TYR 2310	84.832	89.348	92.959	0.00	0.00
ATOM 34615	CD2	TYR 2310	85.552	87.662	91.787	0.00	0.00
ATOM 34616	HD2	TYR 2310	84.642	87.092	91.898	0.00	0.00
ATOM 34617	C	TYR 2310	86.727	83.509	89.766	0.00	0.00
ATOM 34618	O	TYR 2310	85.586	83.071	89.550	0.00	0.00
ATOM 34619	N	PHE 2311	87.814	83.002	89.148	0.00	0.00
ATOM 34620	H	PHE 2311	88.712	83.398	89.383	0.00	0.00
ATOM 34621	CA	PHE 2311	87.768	81.996	88.039	0.00	0.00
ATOM 34622	HA	PHE 2311	86.716	81.889	87.774	0.00	0.00
ATOM 34623	CB	PHE 2311	88.493	82.433	86.761	0.00	0.00

ATOM	34624	HB2	PHE	2311	89.566	82.421	86.955	0.00	0.00
ATOM	34625	HB3	PHE	2311	88.417	81.672	85.984	0.00	0.00
ATOM	34626	CG	PHE	2311	88.044	83.759	86.204	0.00	0.00
ATOM	34627	CD1	PHE	2311	88.779	84.923	86.411	0.00	0.00
ATOM	34628	HD1	PHE	2311	89.773	84.818	86.819	0.00	0.00
ATOM	34629	CE1	PHE	2311	88.209	86.218	86.103	0.00	0.00
ATOM	34630	HE1	PHE	2311	88.823	87.096	86.238	0.00	0.00
ATOM	34631	CZ	PHE	2311	86.935	86.340	85.607	0.00	0.00
ATOM	34632	HZ	PHE	2311	86.440	87.279	85.408	0.00	0.00
ATOM	34633	CE2	PHE	2311	86.181	85.202	85.325	0.00	0.00
ATOM	34634	HE2	PHE	2311	85.222	85.203	84.828	0.00	0.00
ATOM	34635	CD2	PHE	2311	86.748	83.948	85.693	0.00	0.00
ATOM	34636	HD2	PHE	2311	86.111	83.076	85.701	0.00	0.00
ATOM	34637	C	PHE	2311	88.337	80.647	88.555	0.00	0.00
ATOM	34638	O	PHE	2311	89.443	80.559	89.094	0.00	0.00
ATOM	34639	N	LEU	2312	87.566	79.571	88.272	0.00	0.00
ATOM	34640	H	LEU	2312	86.668	79.666	87.820	0.00	0.00
ATOM	34641	CA	LEU	2312	88.030	78.156	88.422	0.00	0.00
ATOM	34642	HA	LEU	2312	88.436	78.097	89.432	0.00	0.00
ATOM	34643	CB	LEU	2312	86.743	77.324	88.356	0.00	0.00
ATOM	34644	HB2	LEU	2312	85.939	77.778	88.936	0.00	0.00
ATOM	34645	HB3	LEU	2312	86.527	77.436	87.293	0.00	0.00
ATOM	34646	CG	LEU	2312	86.975	75.827	88.633	0.00	0.00
ATOM	34647	HG	LEU	2312	87.902	75.481	88.175	0.00	0.00
ATOM	34648	CD1	LEU	2312	87.101	75.751	90.162	0.00	0.00
ATOM	34649	1HD1	LEU	2312	86.311	76.360	90.601	0.00	0.00



ATOM 34650	2HD1 LEU	2312	86.999	74.725	90.518	0.00	0.00
ATOM 34651	3HD1 LEU	2312	88.106	76.040	90.467	0.00	0.00
ATOM 34652	CD2 LEU	2312	85.758	74.964	88.355	0.00	0.00
ATOM 34653	1HD2 LEU	2312	85.883	73.903	88.572	0.00	0.00
ATOM 34654	2HD2 LEU	2312	84.989	75.195	89.093	0.00	0.00
ATOM 34655	3HD2 LEU	2312	85.410	75.231	87.357	0.00	0.00
ATOM 34656	C LEU	2312	89.089	77.707	87.375	0.00	0.00
ATOM 34657	O LEU	2312	89.925	76.921	87.617	0.00	0.00
ATOM 34658	N PHC	2313	89.092	78.272	86.143	0.00	0.00
ATOM 34659	H PHC	2313	88.440	79.043	86.140	0.00	0.00
ATOM 34660	CA PHC	2313	90.206	78.189	85.219	0.00	0.00
ATOM 34661	HA PHC	2313	91.131	77.885	85.708	0.00	0.00
ATOM 34662	CB PHC	2313	90.003	77.137	84.175	0.00	0.00
ATOM 34663	HB2 PHC	2313	89.220	77.244	83.425	0.00	0.00
ATOM 34664	HB3 PHC	2313	90.811	77.324	83.468	0.00	0.00
ATOM 34665	CG PHC	2313	90.143	75.696	84.688	0.00	0.00
ATOM 34666	CD1 PHC	2313	89.044	75.027	85.251	0.00	0.00
ATOM 34667	HD1 PHC	2313	88.053	75.434	85.387	0.00	0.00
ATOM 34668	CE1 PHC	2313	89.291	73.718	85.754	0.00	0.00
ATOM 34669	HE1 PHC	2313	88.515	73.152	86.248	0.00	0.00
ATOM 34670	CZ PHC	2313	90.572	73.155	85.773	0.00	0.00
ATOM 34671	HZ PHC	2313	90.771	72.173	86.176	0.00	0.00
ATOM 34672	CE2 PHC	2313	91.630	73.828	85.068	0.00	0.00
ATOM 34673	HE2 PHC	2313	92.637	73.457	84.948	0.00	0.00
ATOM 34674	CD2 PHC	2313	91.338	75.042	84.507	0.00	0.00
ATOM 34675	HD2 PHC	2313	92.154	75.534	83.999	0.00	0.00

ATOM 34676 C PHC 2313 90.498 79.519 84.503 0.00 0.00  
ATOM 34677 O PHC 2313 89.607 80.169 84.019 0.00 0.00  
ATOM 34678 OXT PHC 2313 91.675 79.918 84.317 0.00 0.00  
ATOM 34679 O ONB 2314 95.850 92.134 65.031 0.00 0.00  
ATOM 34680 H1 ONB 2314 95.588 92.552 65.855 0.00 0.00  
ATOM 34681 H1 ON1 2315 97.089 91.460 64.243 0.00 0.00  
ATOM 34682 O ON1 2315 96.818 91.804 63.330 0.00 0.00  
ATOM 34683 H2 ON1 2315 95.822 91.952 63.236 0.00 0.00  
ATOM 34684 H1 ON2 2316 95.693 90.376 65.434 0.00 0.00  
ATOM 34685 O ON2 2316 95.353 89.930 64.592 0.00 0.00  
ATOM 34686 H2 ON2 2316 95.737 90.299 63.731 0.00 0.00  
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