

Supporting Information

Structure-based design of novel biphenyl amide antagonists of human Transient Receptor Potential Cation Channel Subfamily M Member 8 channels with potential implications in the treatment of sensory neuropathies

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Figure S1. Sequence alignment of S1-S4 helices (VSLD), S5-S6 helices (pore domain), pore helix (PH) and TRP helix for collared flycatcher (avian), human and rat TRPM8. The VSLD domain (S1-S4), pore domain (S5-S6, and pore helix PH) and TRP helix from full sequence of TRPM8_{FA} (U3JD03, 1103 residues), hTRPM8 (Q7Z2W7, 1104 residues) and rTRPM8 (Q8R455, 1104 residues) was retrieved from the UniProtKB / Swiss-Prot (<http://www.uniprot.org/uniprot/>), and the three domains were aligned using the Clustal Omega program (<https://www.uniprot.org/align/>). Similar amino acids are highlighted. TRPM8_{FA} is highly homologous to human and rat TRPM8 in the aforementioned region (86% and 87% sequence identity, respectively). Asterisks denote residues sensitive to menthol (green), icilin (yellow), voltage (gold) and Ca²⁺ (magenta).

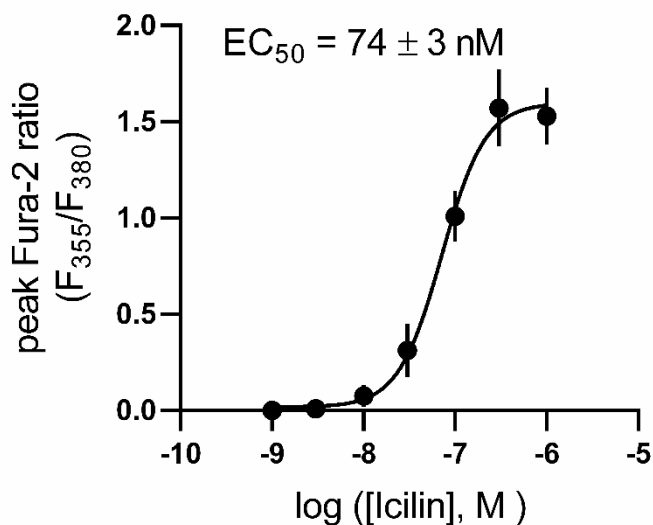


Figure S2a. Concentration - response curve for icilin in HEK293 stably expressing hTRPM8 cells. Response was reported by peak fluorescence (Fura-2) ratio indicative of maximum changes in intracellular free Ca²⁺ concentrations at indicated concentrations of icilin. Each data point represents peak fluorescence ratio as mean ± SEM (n ≥ 30 cells from 3 independent experiments done in three different days).

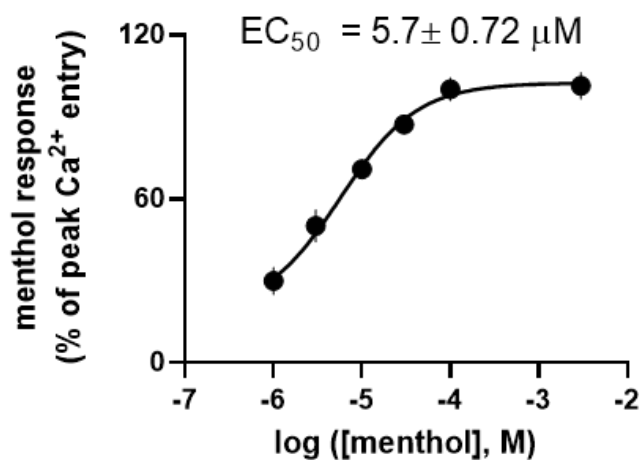


Figure S2b. Concentration-response curve of (-) menthol-evoked Ca²⁺ entry in HEK-293-hTRPM8 cells. Each data point represents mean response at cognate concentration expressed as a percent of the maximum Ca²⁺ entry in a Fura-2 based Ca²⁺ imaging assay. The error bars indicate

SEM ($n \geq 35$ cells from 3 independent experiments done in three different days). The line represents a four parameter logistic curve fit done using Prism 7 (Graphpad Inc.).

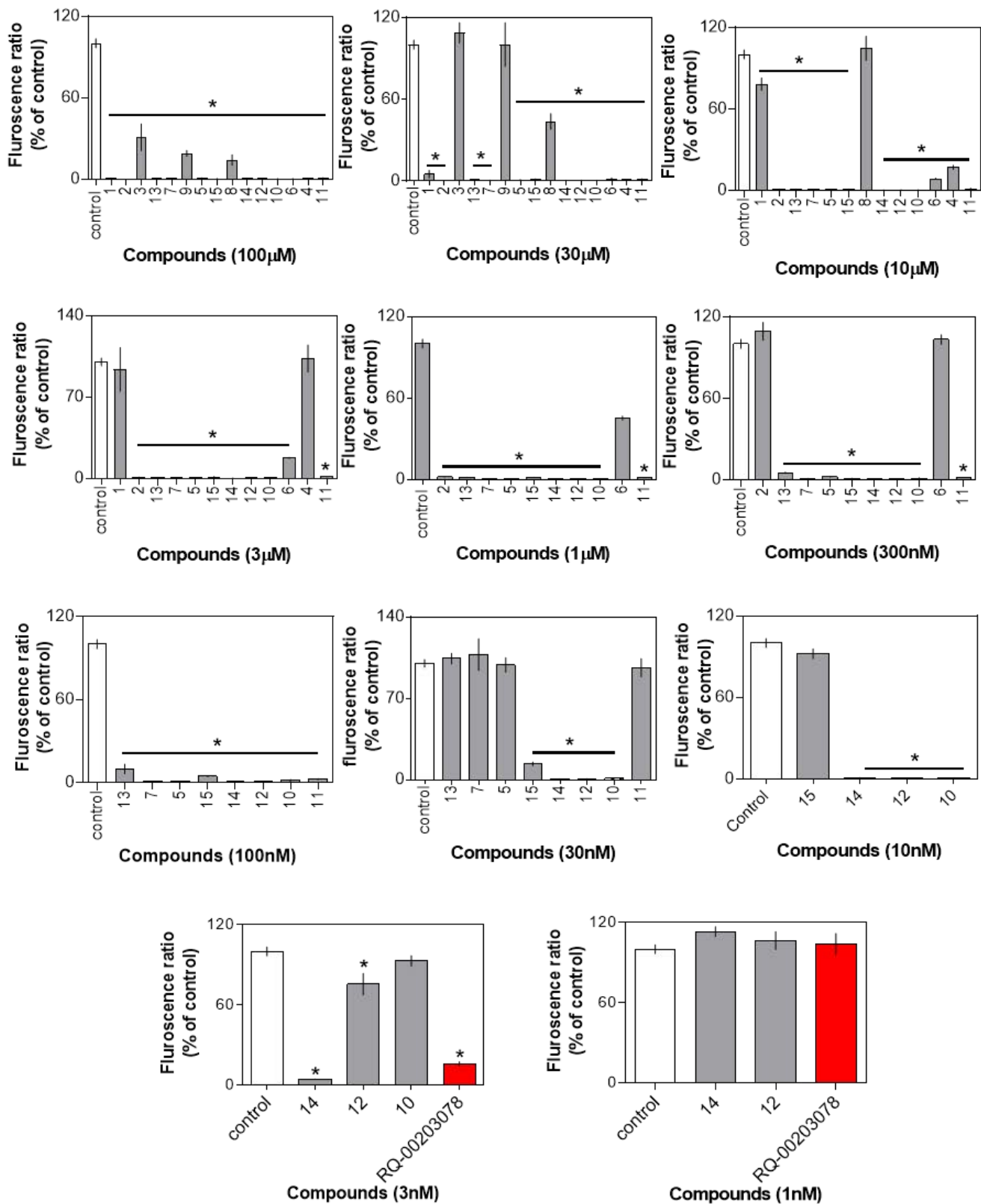


Figure S3. Evaluation of the effect of compounds on icilin-evoked Ca^{2+} entry in HEK-293 cells stably expressing human TRPM8. Each bar represents peak Fura-2 ratio normalized to that of the

icilin (500 nM) response and expressed as mean \pm SEM ($n \geq 35$ cells from 3 independent experiments done in three different days). One way ANOVA followed by Dunnett's test was used to compare the efficacy of the test compounds with respect to that of the control (icilin), * $P < 0.001$.

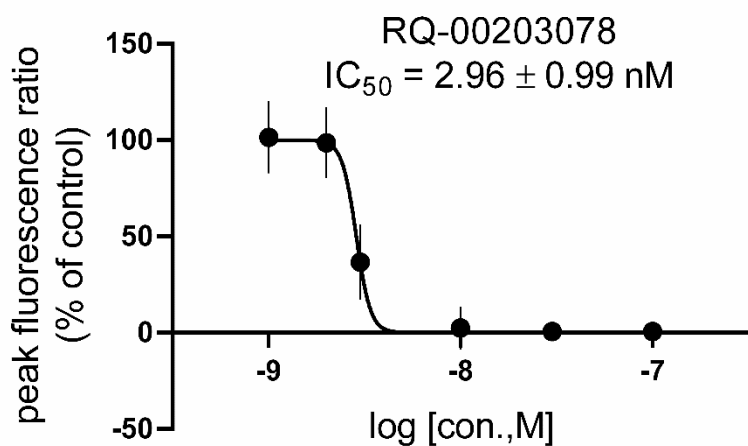


Figure S4. Concentration - response curve of RQ-00203078. Response was reported by peak fluorescence (Fura-2) ratio normalized to the peak response triggered by 500 nM icilin alone. Each data point represents mean \pm SEM ($n \geq 30$ cells from 3 independent experiments done in three different days).

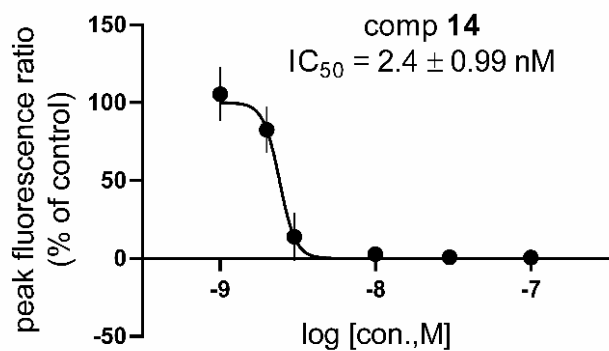


Figure S5. Concentration - response curve of **14**. Response was reported by peak fluorescence (Fura-2) ratio normalized to the peak response triggered by 500 nM icilin alone. Each data point represents mean \pm SEM ($n \geq 30$ cells from 3 independent experiments done in three different days).

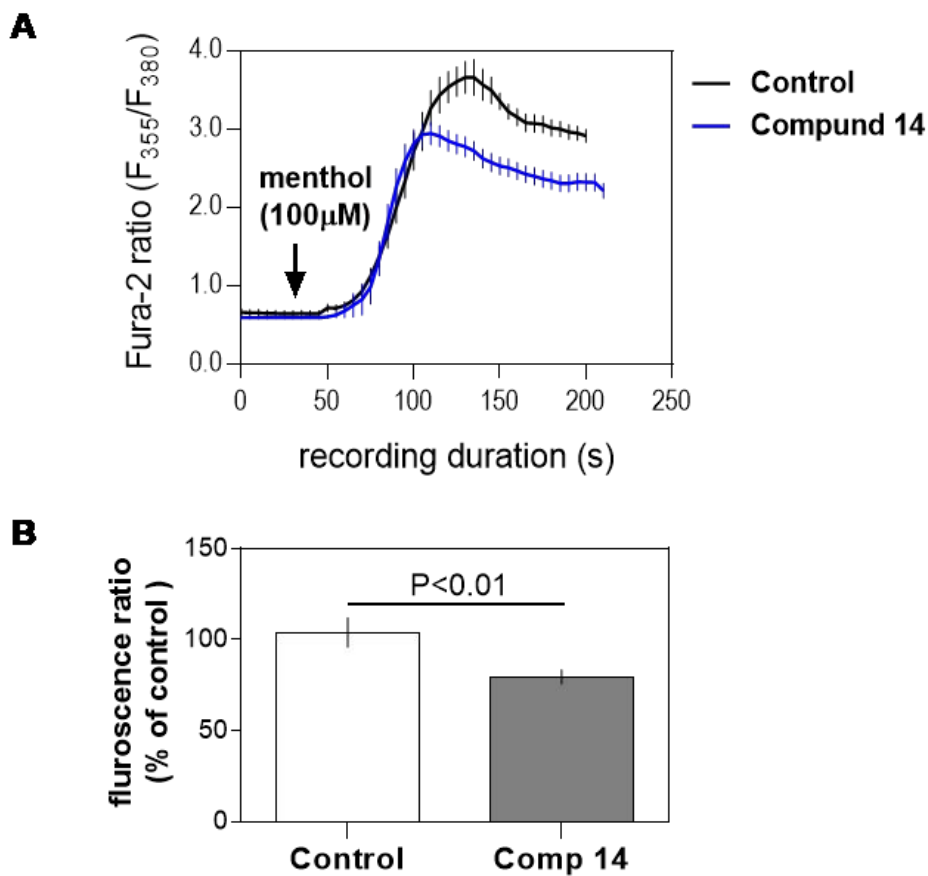


Figure S6a. Typical trace presenting the effect of compound 14 (3 nM) on (-)-menthol (100 μ M)-evoked Ca^{2+} entry signals using Fura-2 based Ca^{2+} imaging of HEK-293-hTRPM8 cells. Each data points represent mean \pm SEM ($n \geq 35$ cells from 3 independent experiments done in three different days).

Figure S6b. Evaluation of the effect of 3 nM of compound 14 on (-) menthol-evoked Ca^{2+} entry in HEK-293-hTRPM8. Each bar represents peak Fura-2 ratio normalized to that of the menthol (100 μ M) response and expressed as mean \pm SEM ($n \geq 35$ cells from 3 independent experiments done in three different days). The mean responses between two groups were compared using Student's t- test, 2 tailed, unpaired.

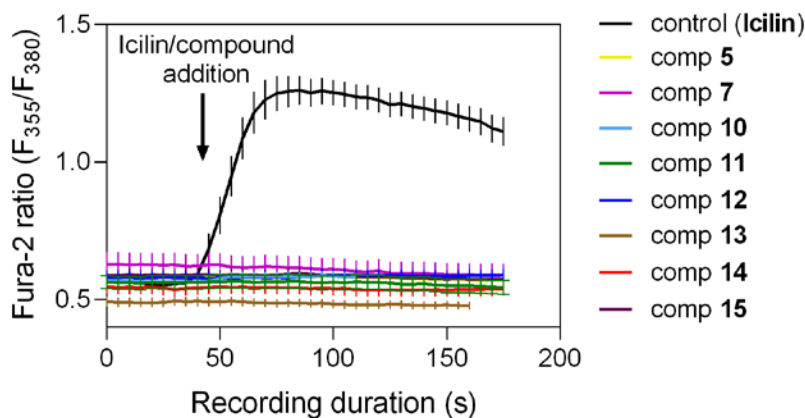


Figure S7. Intrinsic hTRPM8 activity of selected biphenyl amide analogs. Fura-2 based ratiometric Ca^{2+} imaging was performed using Ca^{2+} (2 mM) containing extracellular solution. Each data point represents mean \pm SEM ($n \geq 20$ cells from 3 independent experiments done in three different days).

Table S1. TRPA1 Agonist Data (Percentage Activation Normalized to E_{max} Control)

All data are normalized to the E_{max} for the reference agonist AITC.

Compd	Conc (nM)	% Activation Mean \pm SEM (n = 5)
AITC	100	-0.8 \pm 0.4
	300	-0.5 \pm 0.2
	1,000	-0.5 \pm 0.2
	3,000	-1.2 \pm 0.2
	10,000	68.8 \pm 2.9
	30,000	78.5 \pm 1.0
	100,000	94.2 \pm 2.4
	300,000	100.0 \pm 1.3*
DMSO control	0.33%	0.0

*n = 10

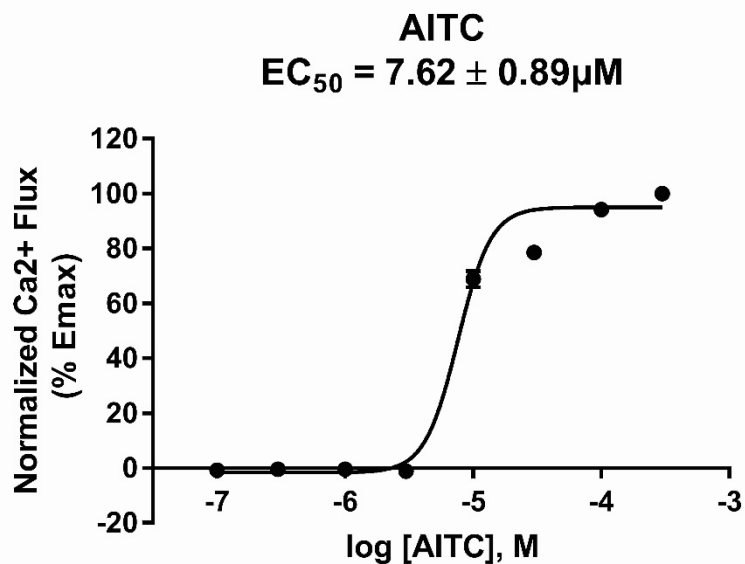


Figure S8. Agonist dose-response of AITC-activation of hTRPA1.

EC₅₀ = 7.62 ± 0.89 μM. Each data point represents mean ± SEM, n = 5 or 10 independent experiments

Table S2. TRPA1 Antagonist Data (Percentage Inhibition Normalized to EC₈₀ Control)

All data are normalized to the EC₈₀ for the reference agonist AITC.

Compd	Conc (nM)	% Inhibition Mean ± SEM (n = 5)
	3	-6.0 ± 1.2
	10	1.9 ± 2.4
Ruthenium	30	5.8 ± 4.6
Red	100	15.7 ± 9.8
	300	91.1 ± 2.9
	1,000	100.9 ± 0.1
	3,000	100.9 ± 0.7
	10,000	100.8 ± 0.3
AITC EC ₈₀	10,000	100
DMSO control	0.33%	0.0

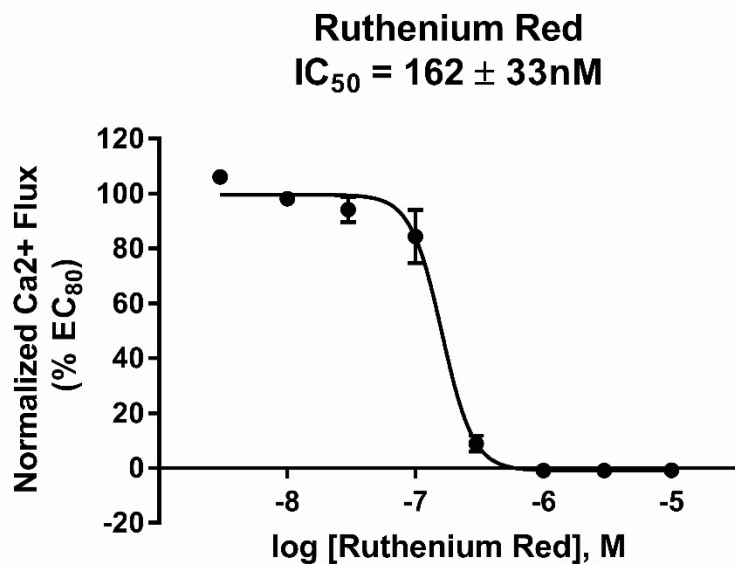


Figure S9. Ruthenium red blockade of AITC-activated (10 μ M) hTRPA1 responses.

IC₅₀ = 162 ± 33 nM. Each data point represents mean ± SEM, n = 5 independent experiments.

Table S3. TRPV1 Agonist Data (Percentage Activation Normalized to E_{max} Control)

All data are normalized to the E_{max} for the reference agonist Capsaicin.

Compd	Conc (nM)	% Activation
		Mean ± SEM (n = 5)
Capsaicin	1	-0.2 ± 1.0
	3	-1.7 ± 0.7
	10	15.2 ± 0.6
	30	72.4 ± 2.3
	100	81.4 ± 3.3
	300	91.8 ± 3.7
	1,000	101.6 ± 2.0
	3,000	100.0 ± 1.8*
DMSO control	0.33%	0.0

*n = 10

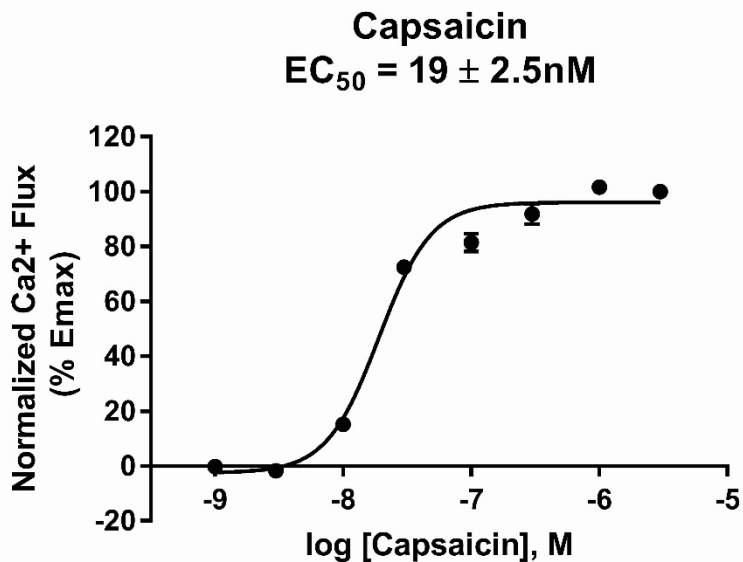


Figure S10. Agonist dose-response of capsaicin-activation of hTRPV1.

EC₅₀ = 19 ± 2.5 nM. Each data point represents mean ± SEM, n = 5 or 10 independent experiments

Table S4. TRPV1 Antagonist Data (Percentage Inhibition Normalized to EC₈₀ Control)

All data are normalized to the EC₈₀ for the reference agonist Capsaicin.

TRPV1 Antagonist assay: Capsazepine reference control

Compd	Conc (nM)	% Inhibition Mean ± SEM (n = 5)
Capsazepine	3	1.6 ± 4.2
	10	0.1 ± 1.3
	30	1.1 ± 1.7
	100	7.1 ± 2.2
	300	23.4 ± 2.5
	1,000	94.2 ± 1.1
	3,000	100.6 ± 0.3
	10,000	101.2 ± 0.5
Capsaicin EC ₈₀	100	100
DMSO control	0.33%	0.0

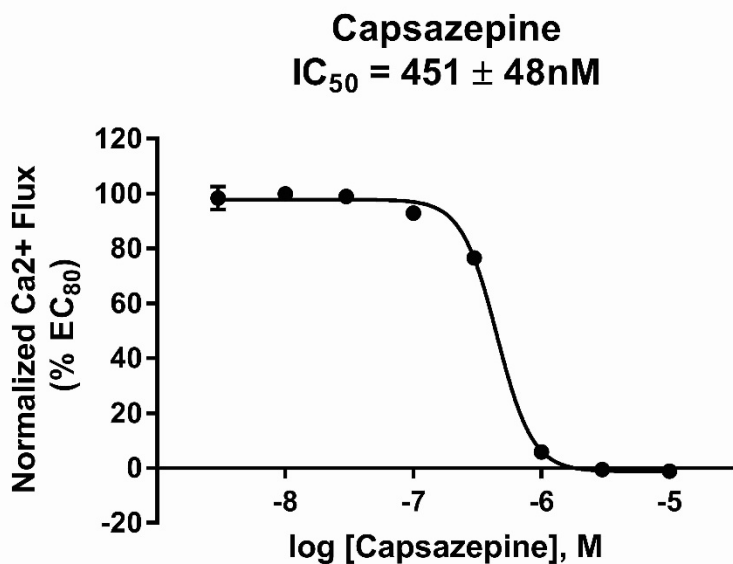


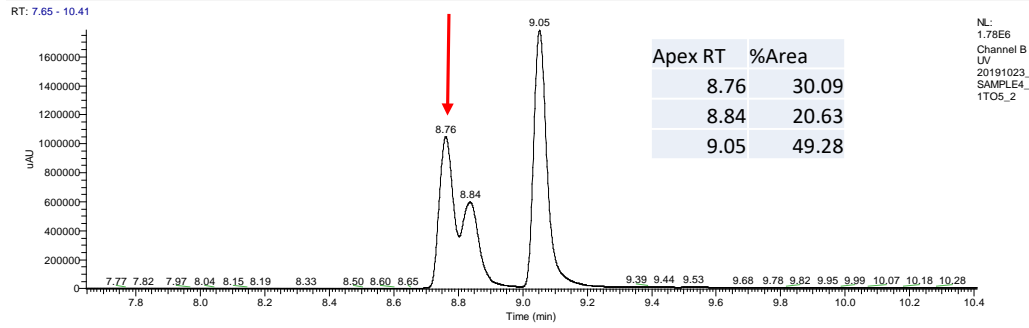
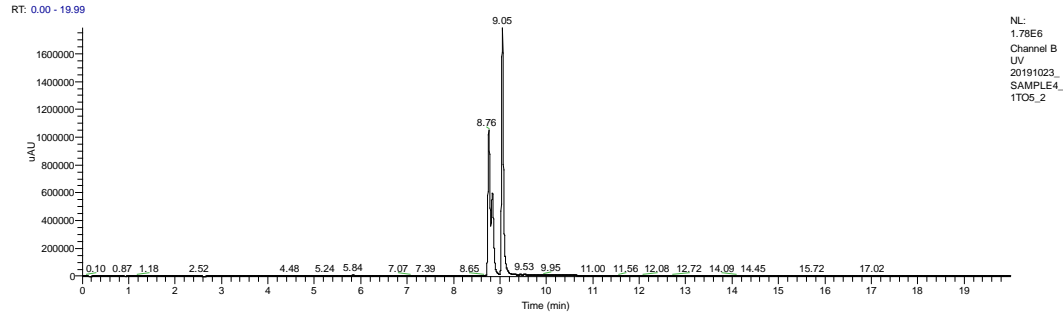
Figure S11. Capsazepine blockade of capsaicin-activated (100 nM) hTRPV1 responses.

IC₅₀ = 451 ± 48 nM. Each data point represents mean ± SEM, n = 5 independent experiments.

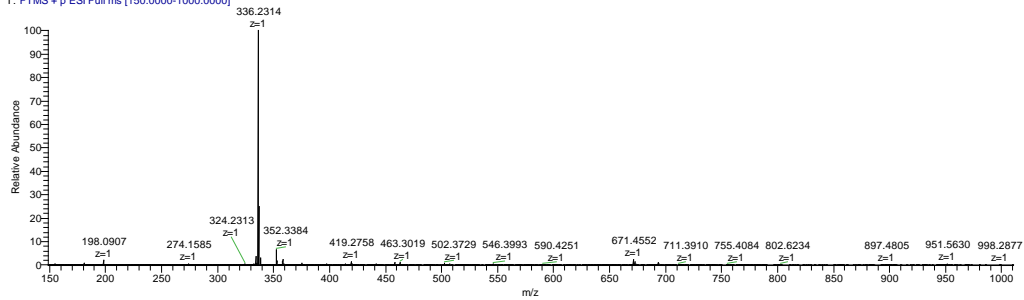
Table S5. Stability of 14 in mouse liver microsomes.

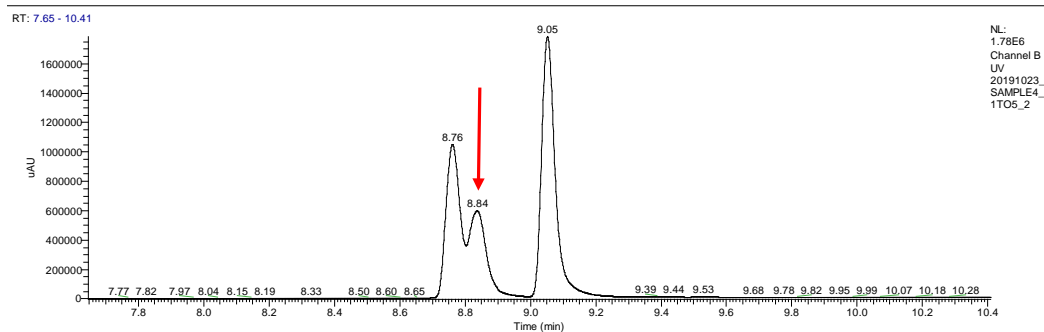
Compd	% Remaining of Initial (n=1)					Half-life (min)	CL _{int} ^a (mL/min/mg protein)
	0 min	10 min	20 min	30 min	60 min		
14	100	78	57	47	31	30	0.0455
testosterone						3.7	0.372

^a Intrinsic clearance (CL_{int}) was calculated based on CL_{int} = k/P, where k is the elimination rate constant and P is the protein concentration in the incubation.

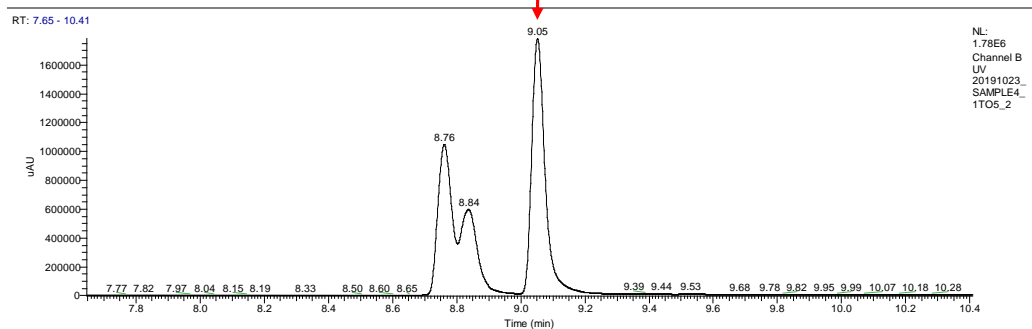
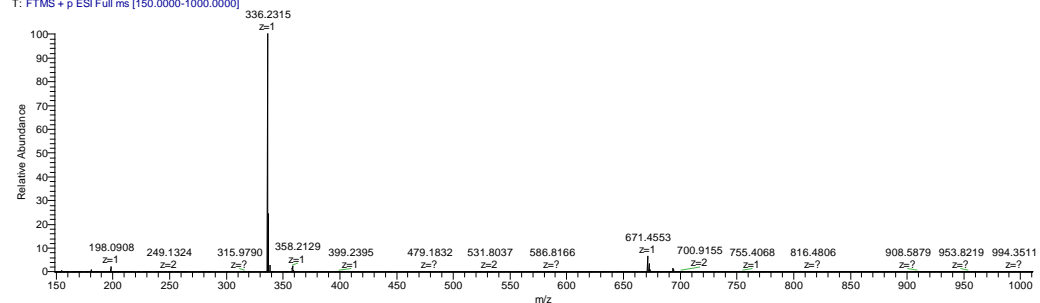


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20191023_SAMPLE4_1T05_2 #2009-2023 RT: 9.02-9.09 AV: 15 SB: 163 7.71-8.43 NL: 8.43E8
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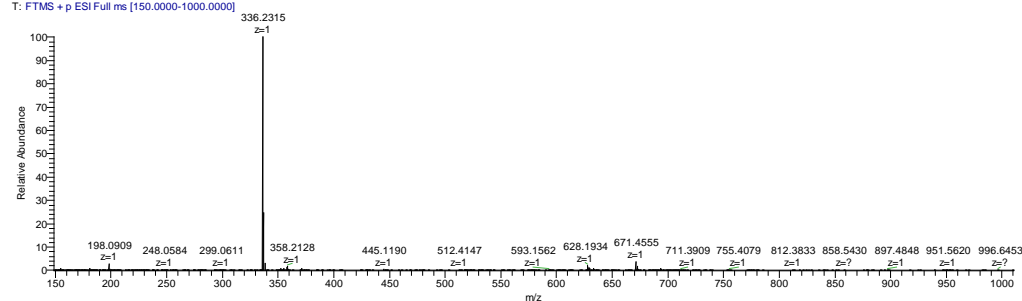


Figure S12. LCMS trace of N-(2-isopropyl-5-methylcyclohexyl)-[1,1'-biphenyl]-4-carboxamide (2, a mixture of three isomers present as a 30:21:49 ratio by LCMS).

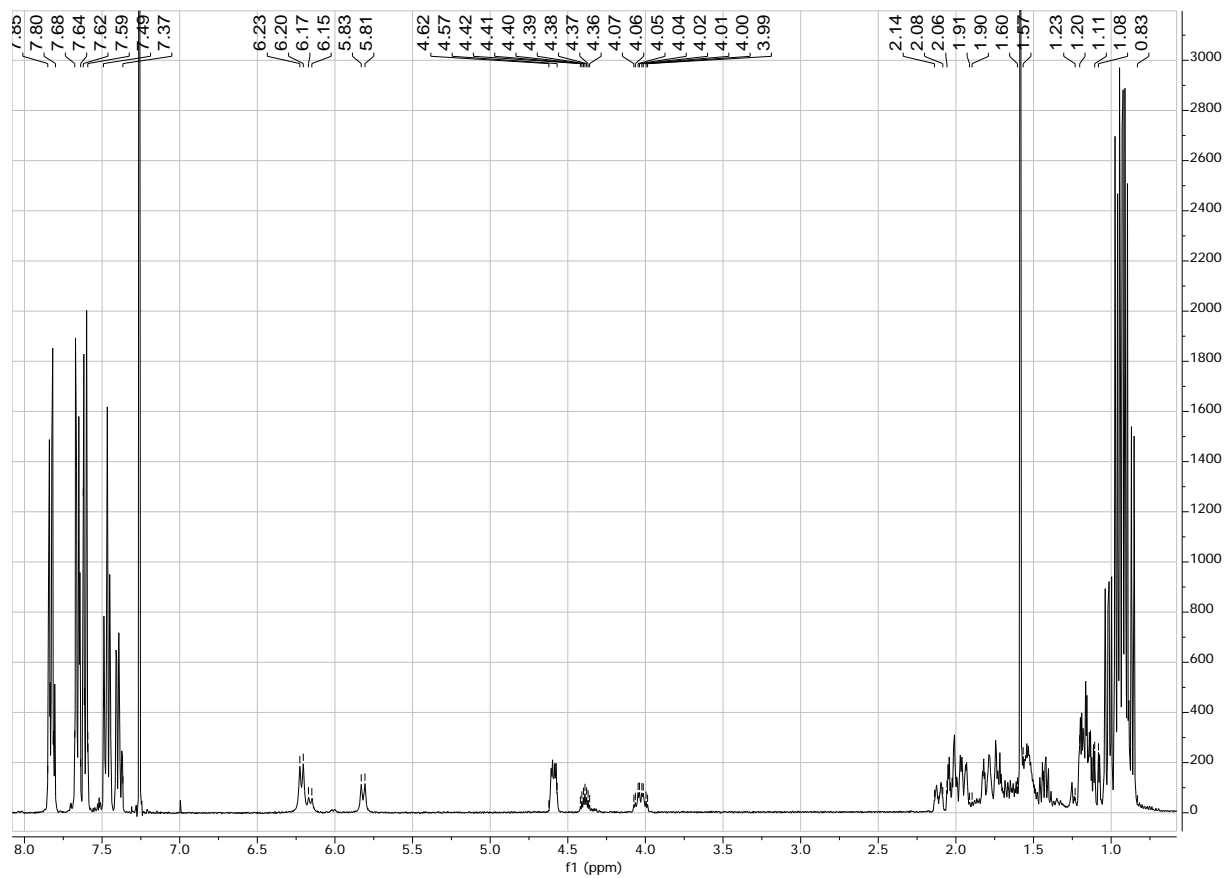


Figure S13. ^1H NMR spectrum of N-(2-isopropyl-5-methylcyclohexyl)-[1,1'-biphenyl]-4-carboxamide (**2**, a mixture of three isomers present as a 30:21:49 ratio by LCMS).

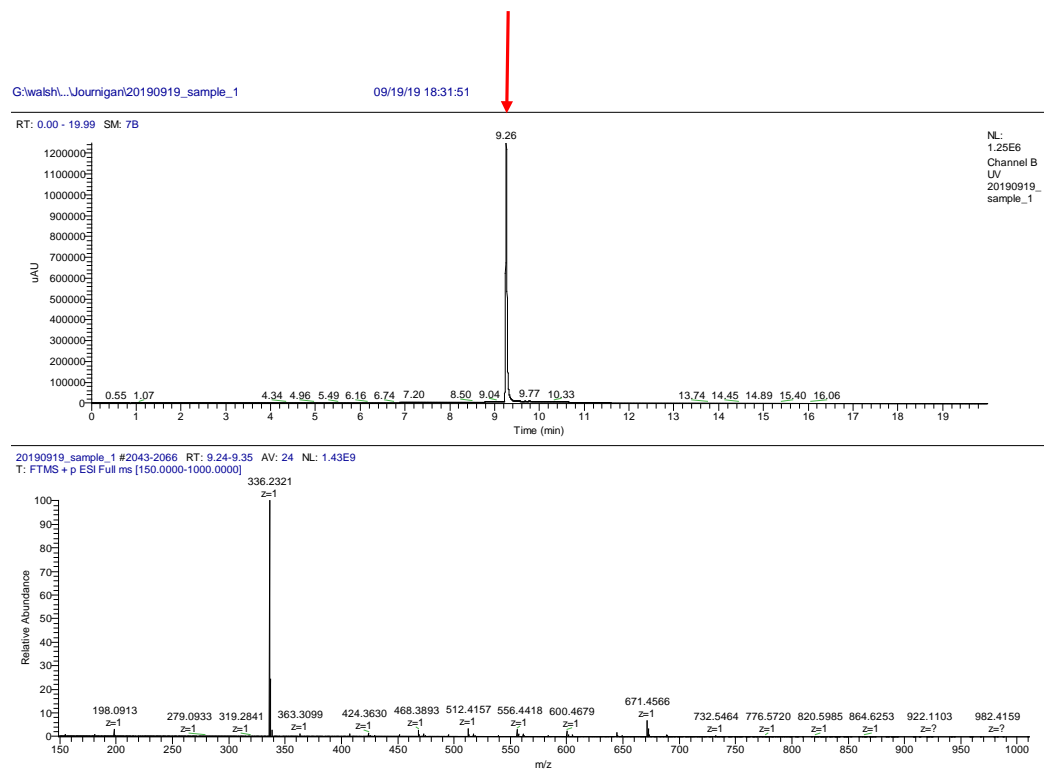


Figure S14. LCMS trace of N-(2-isopropyl-5-methylcyclohexyl)-[1,1'-biphenyl]-4-carboxamide (Isomer **2A**).

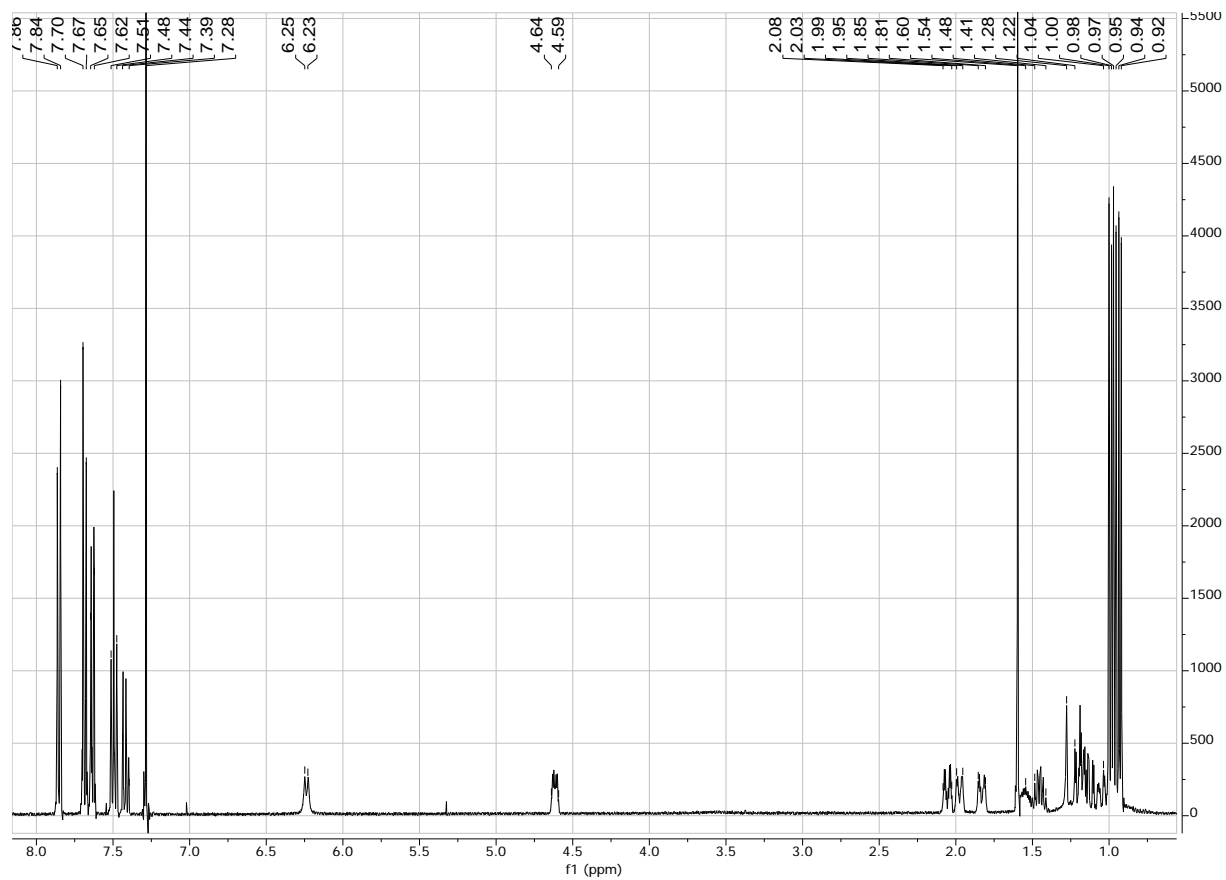


Figure S15. ^1H NMR spectrum of N-(2-isopropyl-5-methylcyclohexyl)-[1,1'-biphenyl]-4-carboxamide (Isomer **2A**).

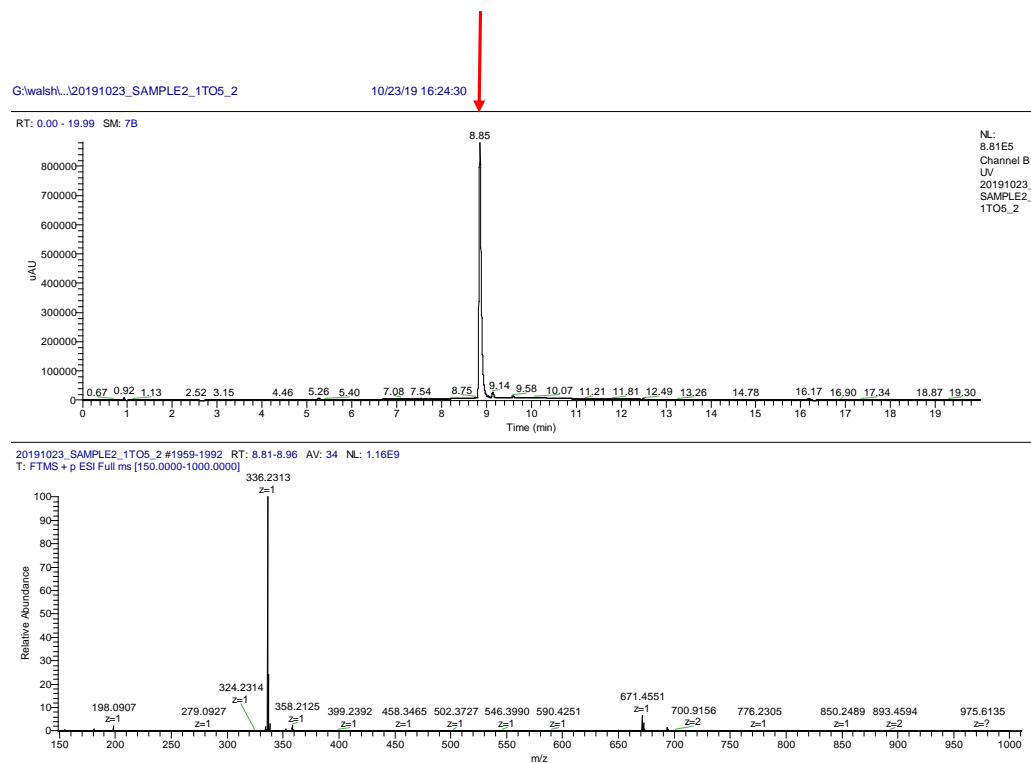


Figure S16. LCMS trace of N-(2-isopropyl-5-methylcyclohexyl)-[1,1'-biphenyl]-4-carboxamide (Isomer **2B**).

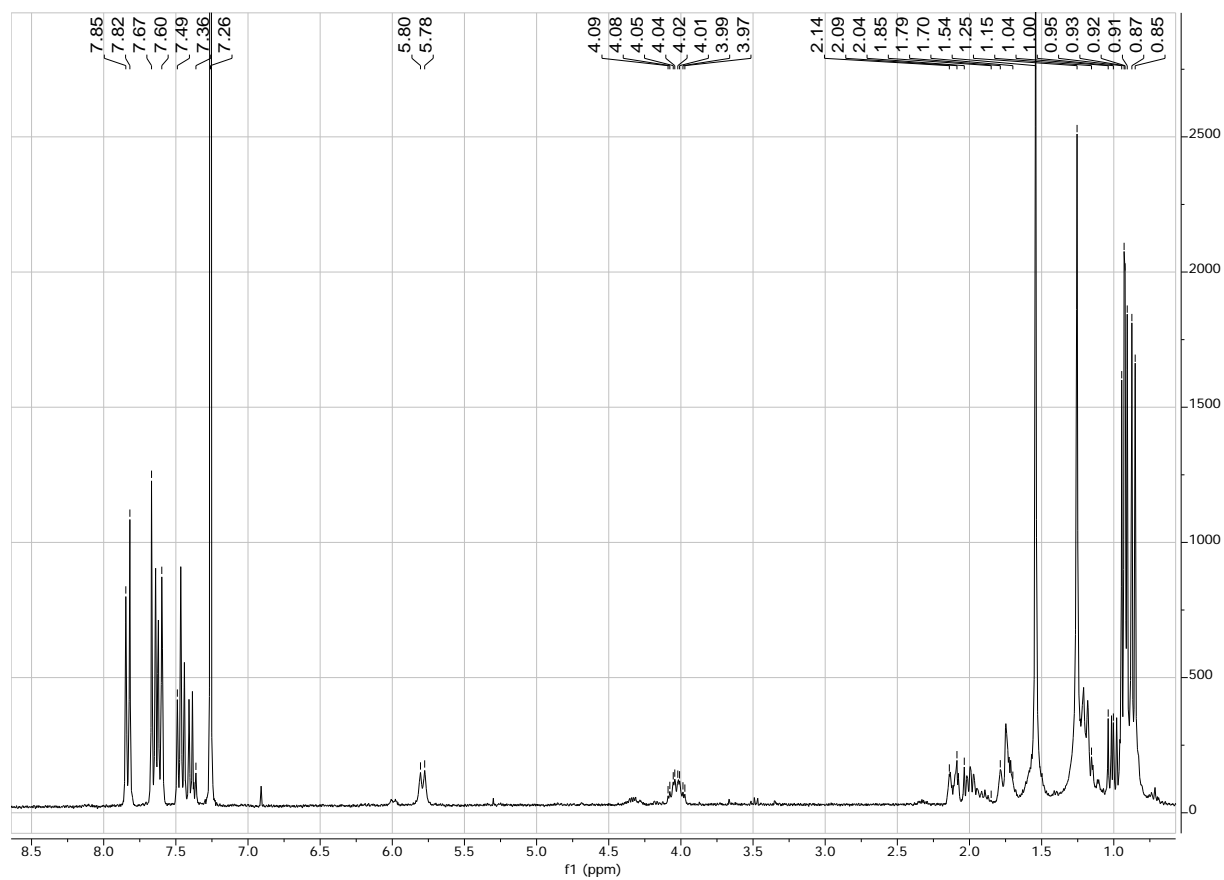
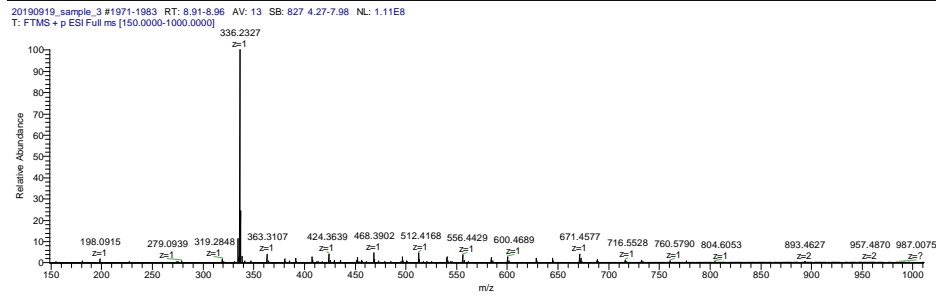
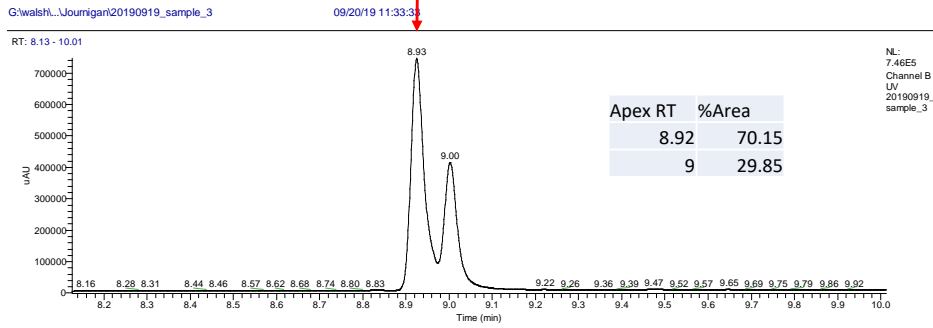
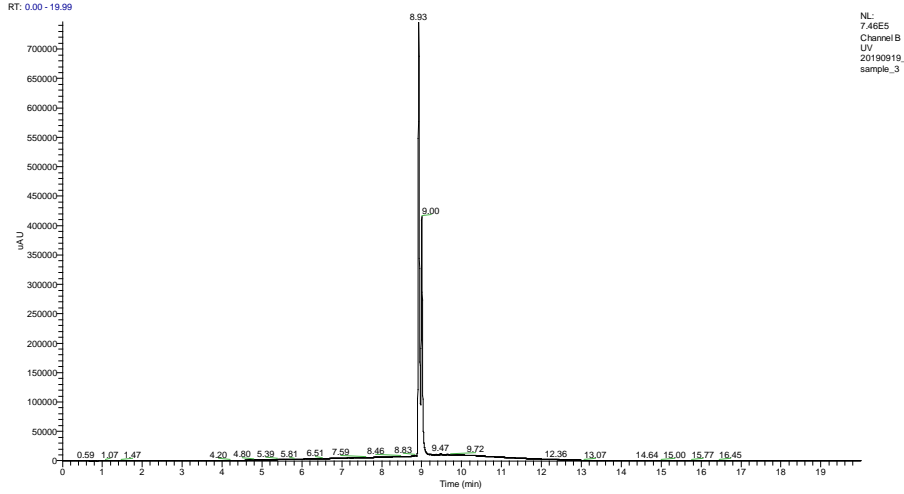
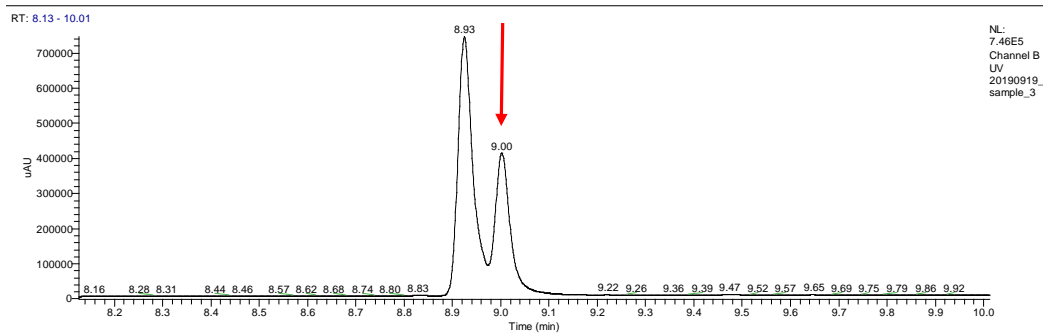


Figure S17. ¹H NMR spectrum of N-(2-isopropyl-5-methylcyclohexyl)-[1,1'-biphenyl]-4-carboxamide (Isomer **2B**).





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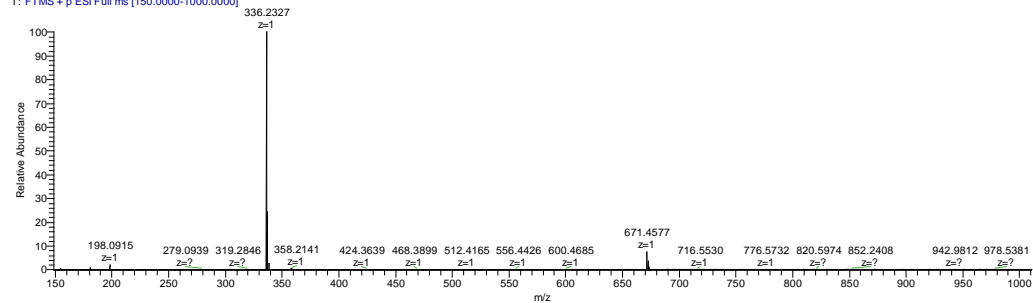


Figure S18. LCMS trace of N-(2-isopropyl-5-methylcyclohexyl)-[1,1'-biphenyl]-4-carboxamide (Isomer **2C**, obtained as a 70:30 ratio of **2B**:**2C**).

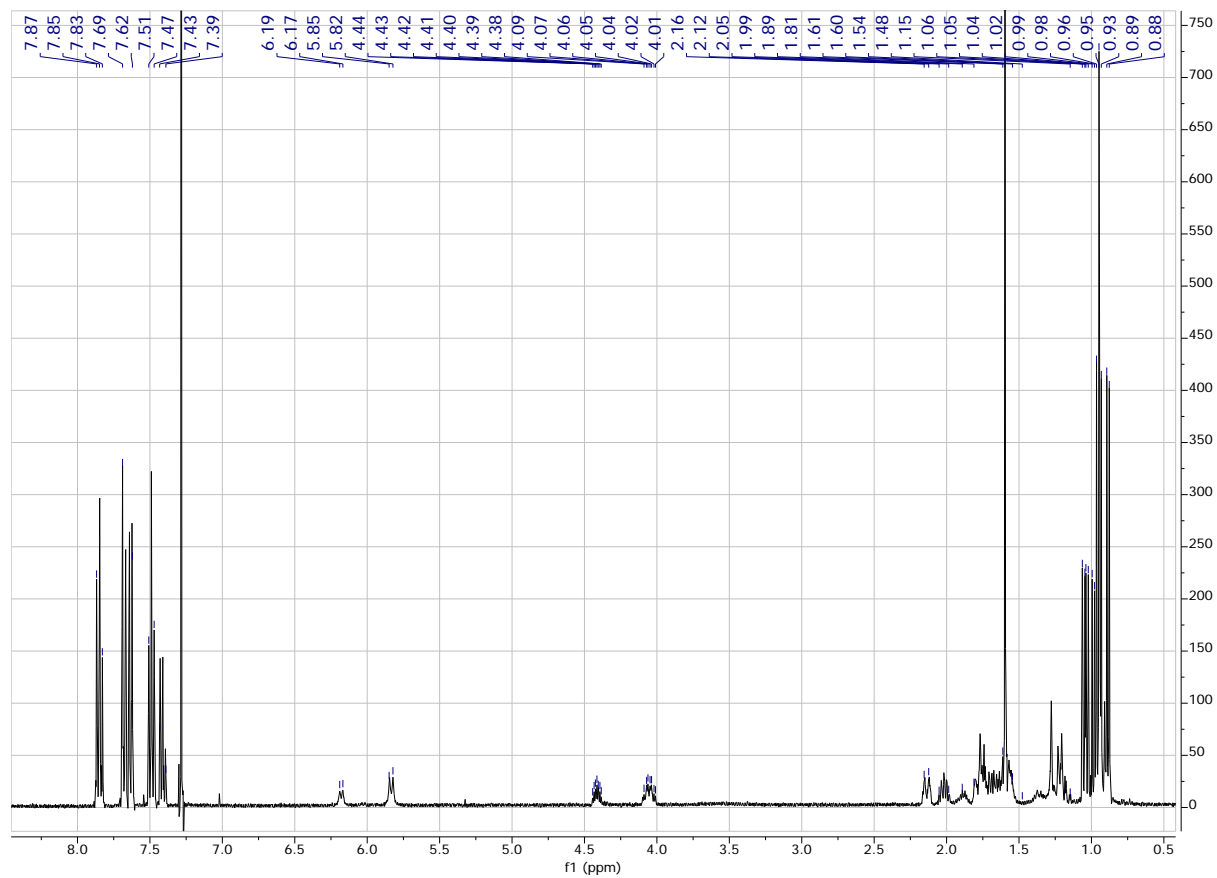


Figure S19. ^1H NMR spectrum of N-(2-isopropyl-5-methylcyclohexyl)-[1,1'-biphenyl]-4-carboxamide (Isomer **2C**, obtained as a 70:30 ratio of 2B:2C).

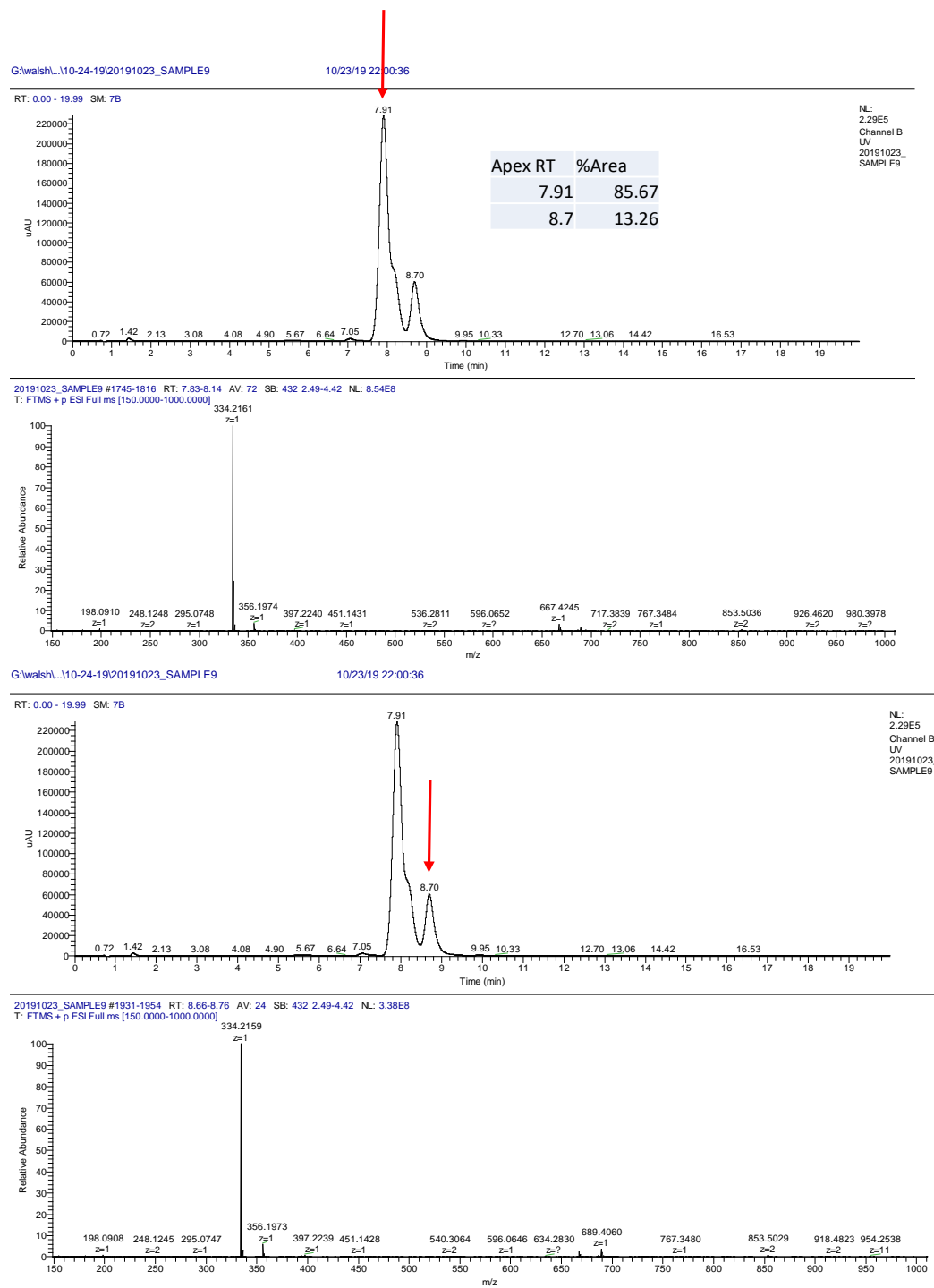


Figure S20. LCMS trace of N-(decahydronaphthalen-2-yl)-[1,1'-biphenyl]-4-carboxamide (**10**), a mixture of two isomers present as a 86:13 ratio by LCMS)

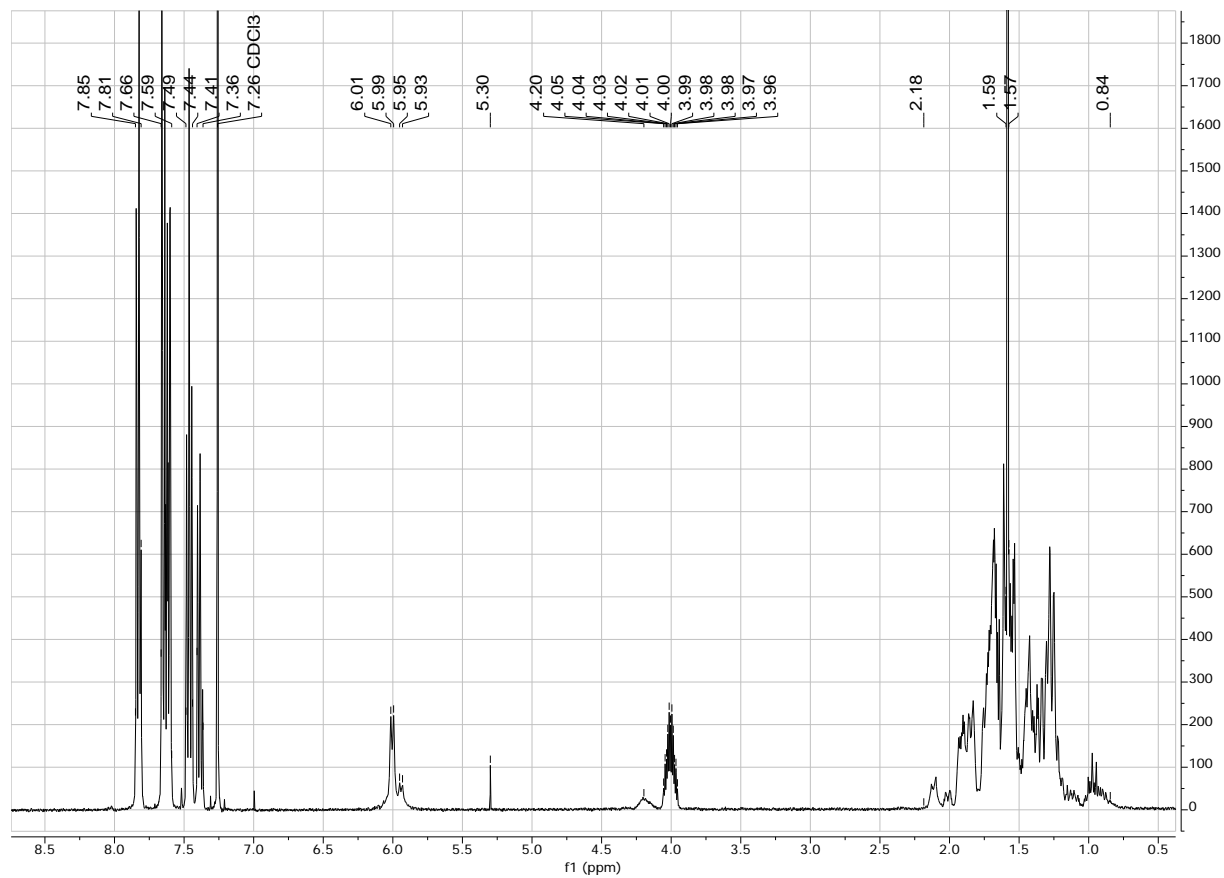


Figure S21. ¹H NMR spectrum of N-(decahydronaphthalen-2-yl)-[1,1'-biphenyl]-4-carboxamide (**10**, a mixture of two isomers present as a 86:13 ratio by LCMS).

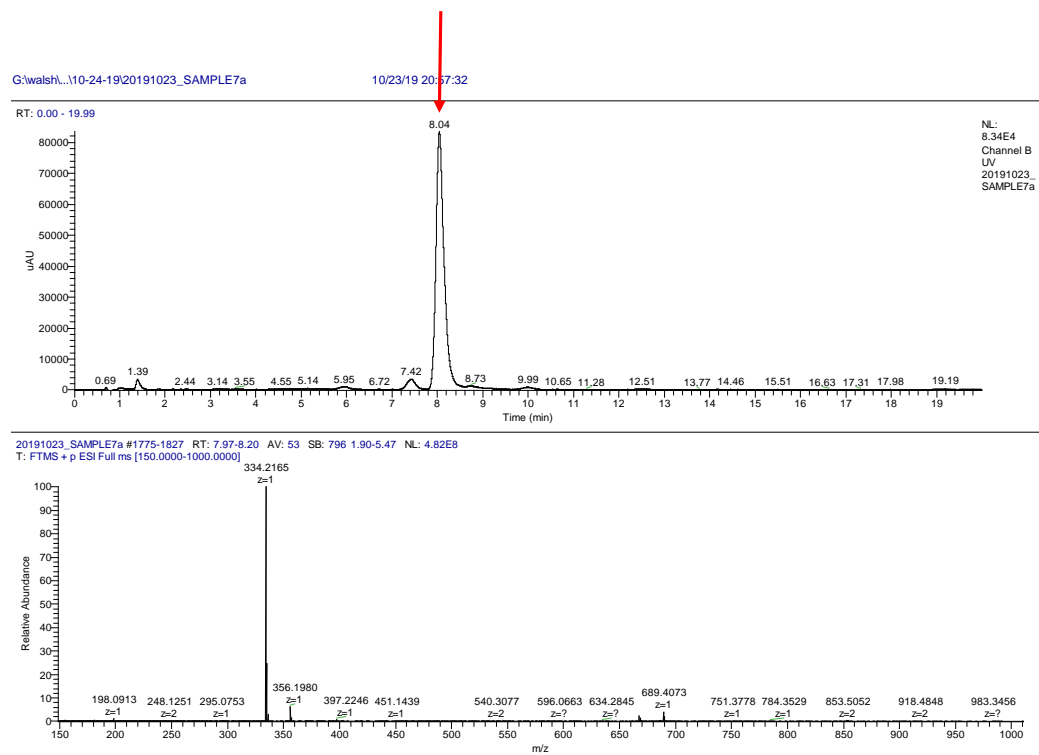


Figure S22. LCMS trace of N-((2SR,9RS,10SR)-decahydronaphthalen-2-yl)-[1,1'-biphenyl]-4-carboxamide (**12**, single isomer).

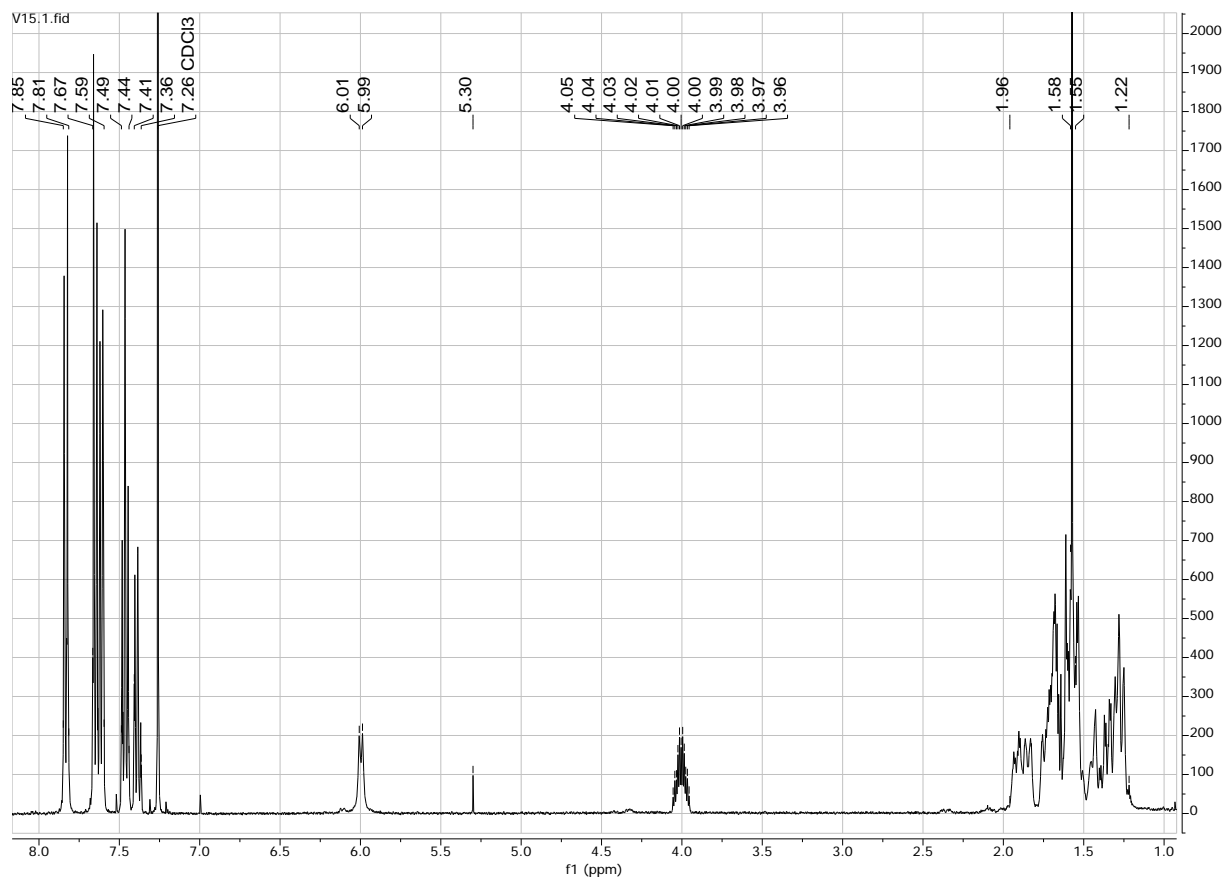


Figure S23. ¹H NMR spectrum of N-((2SR,9RS,10SR)-decahydronaphthalen-2-yl)-[1,1'-biphenyl]-4-carboxamide (**12**, single isomer).

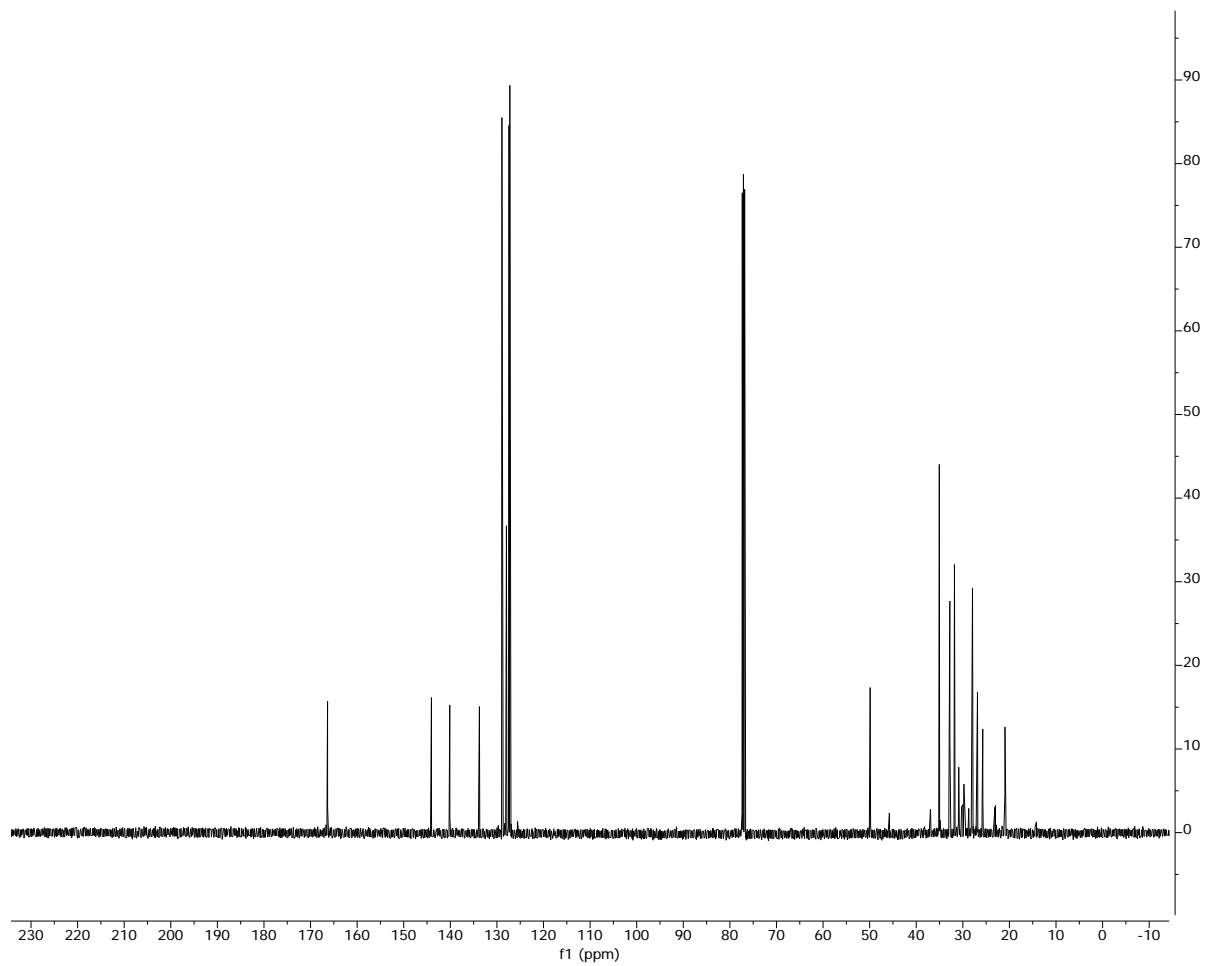


Figure S24. ^{13}C NMR spectrum of N-((2SR,9RS,10SR)-decahydronaphthalen-2-yl)-[1,1'-biphenyl]-4-carboxamide (**12**, single isomer).

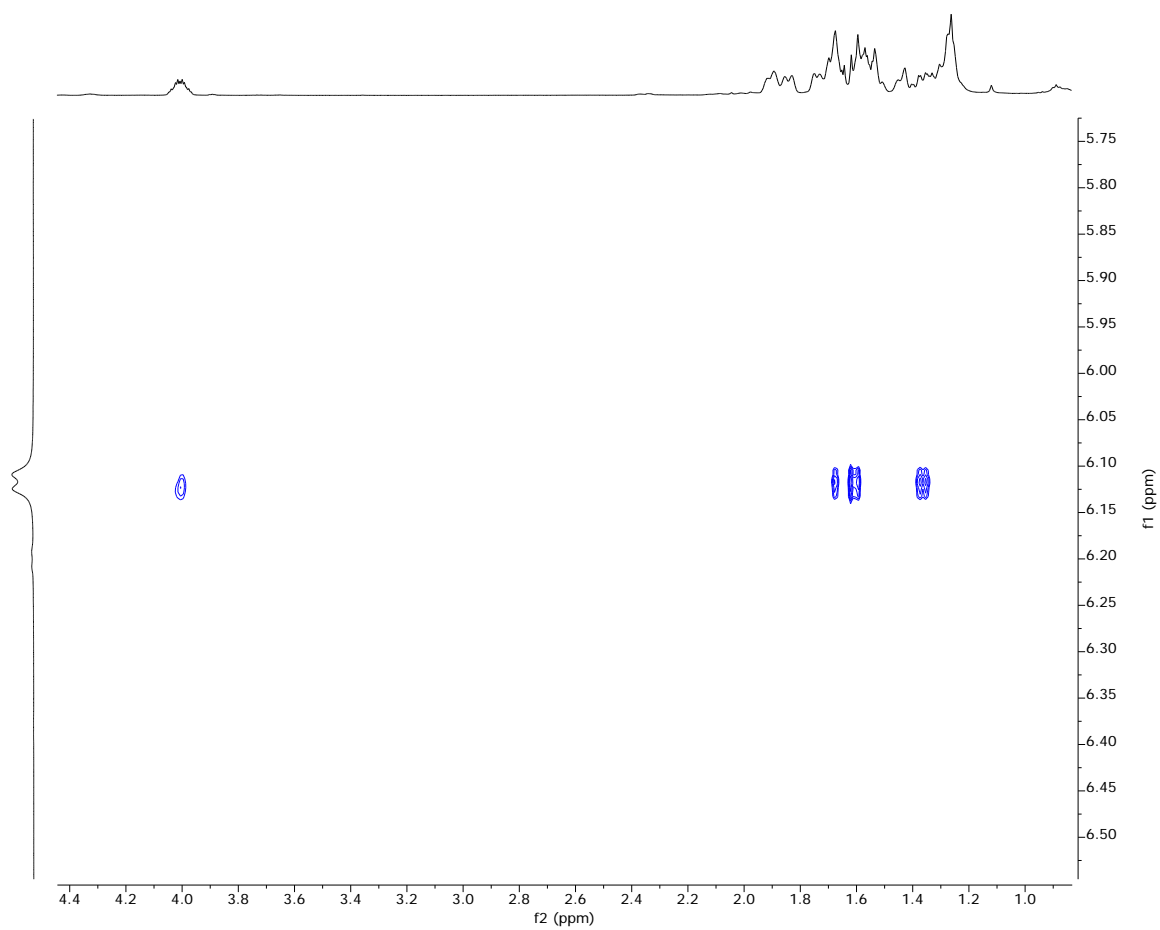


Figure S25. NOESY spectrum of N-((2SR,9RS,10SR)-decahydronaphthalen-2-yl)-[1,1'-biphenyl]-4-carboxamide (**12**, single isomer).

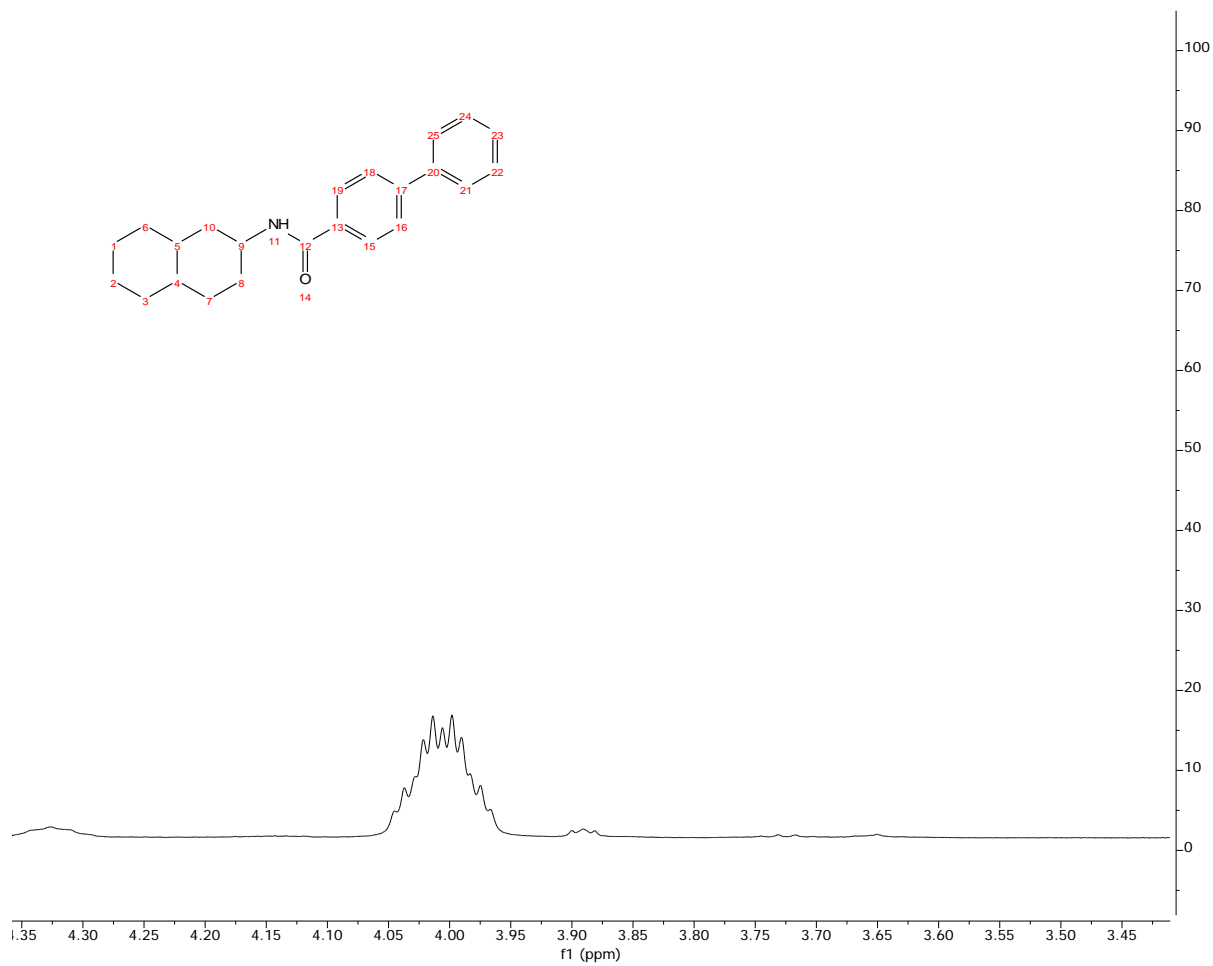


Figure S26. ¹H NMR spectrum of N-((2SR,9RS,10SR)-decahydronaphthalen-2-yl)-[1,1'-biphenyl]-4-carboxamide (**12**, single isomer).

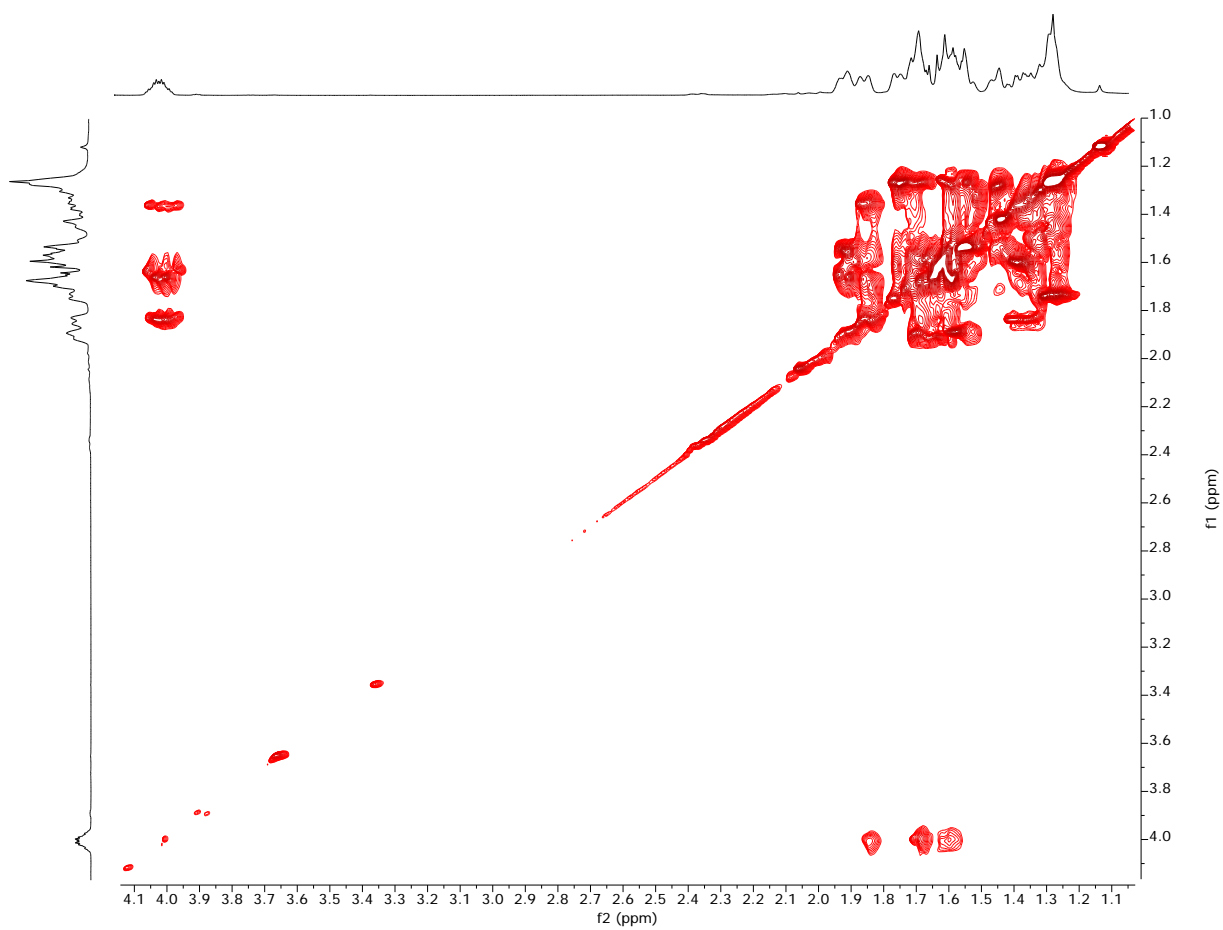


Figure S27. gCOSY spectrum of N-((2SR,9RS,10SR)-decahydronaphthalen-2-yl)-[1,1'-biphenyl]-4-carboxamide (**12**, single isomer).

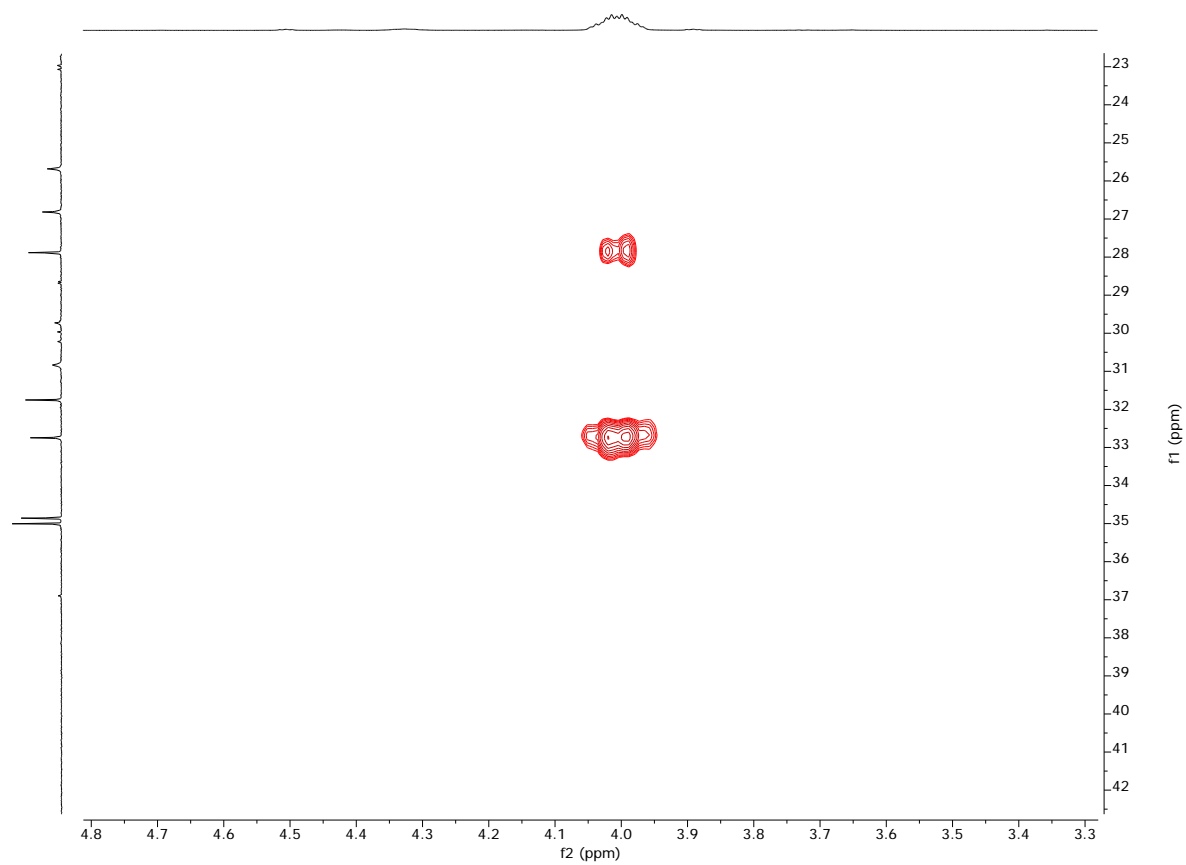


Figure S28. gH2BCAD spectrum of N-((2SR,9RS,10SR)-decahydronaphthalen-2-yl)-[1,1'-biphenyl]-4-carboxamide (**12**, single isomer).

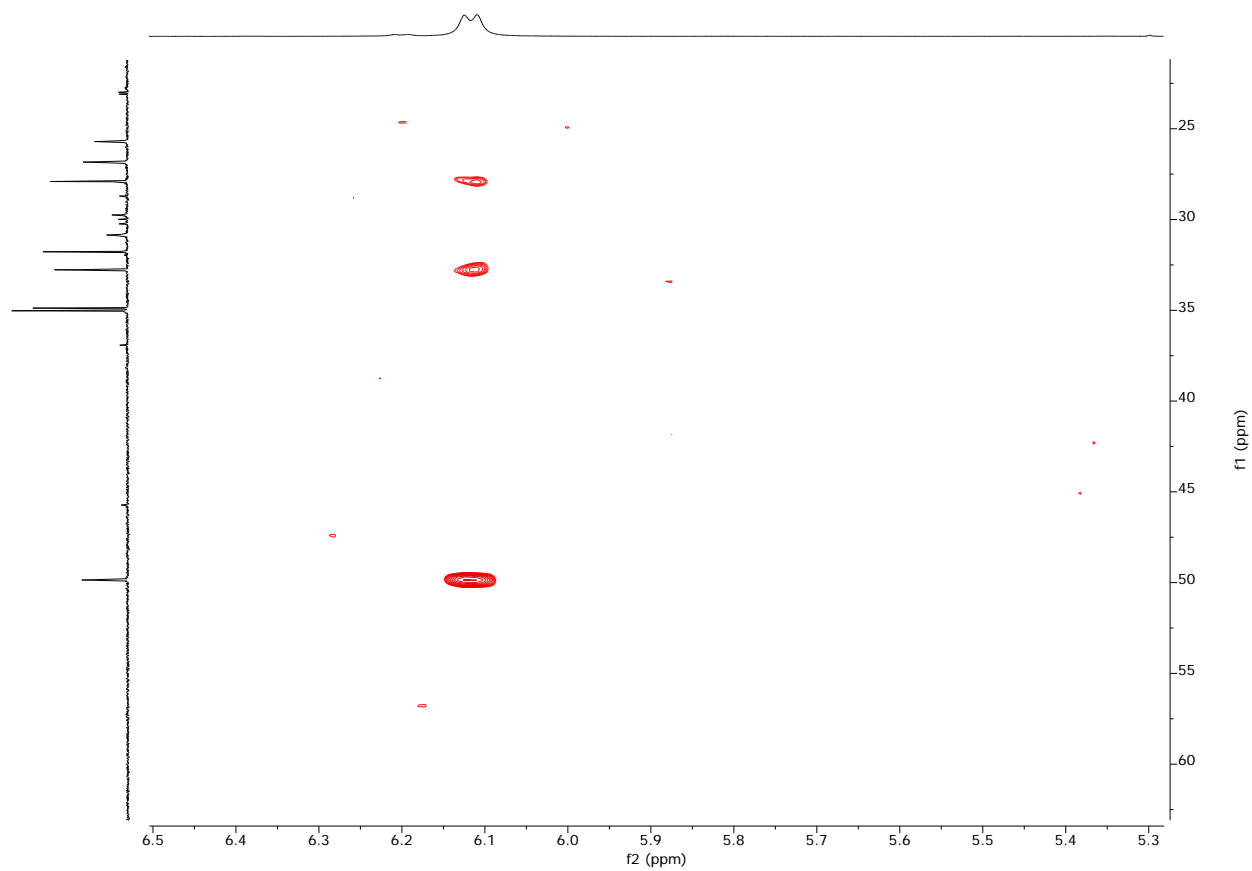


Figure S29. gHMBCAD spectrum of N-((2SR,9RS,10SR)-decahydronaphthalen-2-yl)-[1,1'-biphenyl]-4-carboxamide (**12**, single isomer).

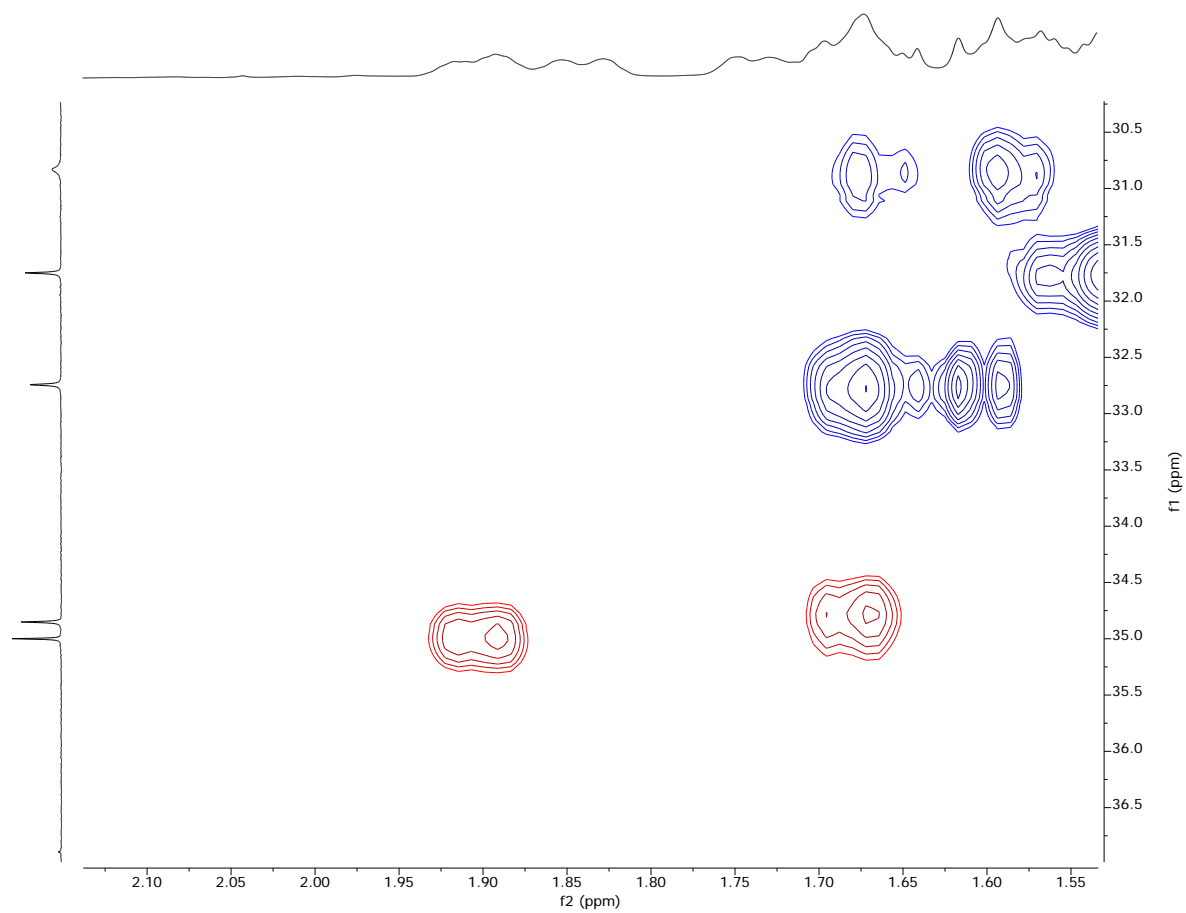
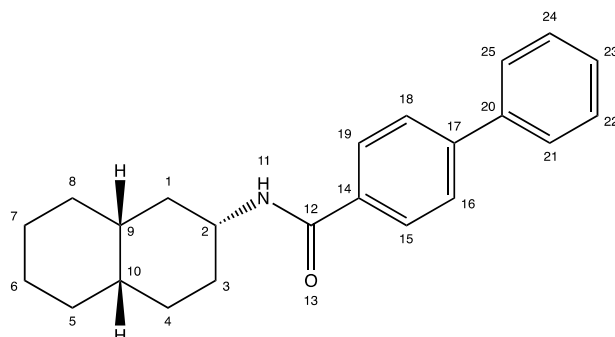


Figure S30. gHSQCAD spectrum of N-((2SR,9RS,10SR)-decahydronaphthalen-2-yl)-[1,1'-biphenyl]-4-carboxamide (**12**, single isomer).

Table S6. Assignment of ^1H - and ^{13}C -NMR chemical shifts of N-((2SR,9RS,10SR)-decahydronaphthalen-2-yl)-[1,1'-biphenyl]-4-carboxamide (**12**).



Atom #	^1H (ppm)	^{13}C (ppm)
1	H1: 1.68 (m, 1H), H1': 1.59 (m, 1H)	32.72
2	4.01 (tdt, $J=12,8.3,4.3$ Hz, 1H)	49.9
3	H3: 1.84 (br d, $J = 12.9$ Hz, 1H), H3': 1.36 (m, 1H)	27.9
4	H4: 1.58 (m, 1H), H4': 1.66 (m, 1H)	30.85
5	H5: 1.57 (m, 1H), H5': 1.26 (m, 1H)	25.72
6	H6: 1.74 (m, 1H), H6': 1.27 (m, 1H)	26.82
7	H7: 1.30 (m, 1H), H7': 1.43 (m, 1H)	20.93
8	H8, H8': 1.50-1.56 (m, 2H)	31.74
9	H9: 1.91 (m, 1H)	35.0
10	1.68 (m, 1H)	34.9
11	6.12 (br d, $J=8.1$ Hz, 1H)	---
12	---	166.3
13	---	---
14	---	133.7
15,19	H15,19: 7.85 (d, $J=8$ Hz, 2H)	127.4
16,18	H16,18: 7.64 (t, $J=8.1$ Hz, 2H)	127.16
17	---	144.0
20	---	140.1
21,25	H21,25: 7.61 (d, $J=7.6$ Hz, 2H)	127.2
22,24	H22,24: 7.46 (t, $J=7.5$ Hz, 2H)	128.9
23	H23: 7.39 (t, $J=7.4$ Hz, 1H)	127.9

Figure S31. Coordinates for human TRPM8 computational model

```
REMARK Accelrys Discovery Studio PDB file
REMARK Created: 2019-03-26T14:02:54Z
ATOM 1 N GLN A 671 78.906 75.896 26.819 1.00 0.00 N1+
ATOM 2 CA GLN A 671 79.876 76.465 25.921 1.00 0.00 C
ATOM 3 C GLN A 671 80.820 77.365 26.659 1.00 0.00 C
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ATOM 5 CB GLN A 671 79.219 77.302 24.810 1.00 0.00 C
ATOM 6 CG GLN A 671 78.467 78.513 25.363 1.00 0.00 C
ATOM 7 CD GLN A 671 77.755 79.215 24.214 1.00 0.00 C
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ATOM 9 OE1 GLN A 671 77.947 78.878 23.046 1.00 0.00 O
ATOM 10 N PRO A 672 82.029 77.379 26.155 1.00 0.00 N
ATOM 11 CA PRO A 672 83.070 78.186 26.730 1.00 0.00 C
ATOM 12 C PRO A 672 82.876 79.662 26.566 1.00 0.00 C
ATOM 13 O PRO A 672 83.460 80.413 27.346 1.00 0.00 O
ATOM 14 CB PRO A 672 84.373 77.676 26.121 1.00 0.00 C
ATOM 15 CG PRO A 672 84.073 76.203 25.804 1.00 0.00 C
ATOM 16 CD PRO A 672 82.560 76.176 25.533 1.00 0.00 C
ATOM 17 N GLY A 673 82.106 80.113 25.556 1.00 0.00 N
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ATOM 20 O GLY A 673 81.837 83.136 27.099 1.00 0.00 O
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ATOM 22 CA VAL A 674 79.428 82.197 28.023 1.00 0.00 C
ATOM 23 C VAL A 674 80.234 82.029 29.263 1.00 0.00 C
ATOM 24 O VAL A 674 80.257 82.908 30.122 1.00 0.00 O
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ATOM 26 CG1 VAL A 674 78.357 80.033 28.526 1.00 0.00 C
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ATOM 29 CA GLN A 675 81.689 80.607 30.567 1.00 0.00 C
ATOM 30 C GLN A 675 82.775 81.631 30.678 1.00 0.00 C
ATOM 31 O GLN A 675 83.067 82.115 31.769 1.00 0.00 O
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ATOM 37 N ASN A 676 83.394 81.994 29.541 1.00 0.00 N
```

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ATOM	128	CA	ILE	A	686	90.800	93.248	37.037	1.00	0.00	C
ATOM	129	C	ILE	A	686	90.865	92.219	35.960	1.00	0.00	C
ATOM	130	O	ILE	A	686	89.955	91.412	35.784	1.00	0.00	O
ATOM	131	CB	ILE	A	686	91.130	92.596	38.351	1.00	0.00	C
ATOM	132	CG1	ILE	A	686	91.126	93.637	39.487	1.00	0.00	C
ATOM	133	CG2	ILE	A	686	92.485	91.893	38.194	1.00	0.00	C
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ATOM	136	CA	SER	A	687	92.153	91.342	34.098	1.00	0.00	C
ATOM	137	C	SER	A	687	92.532	90.013	34.662	1.00	0.00	C
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ATOM	140	OG	SER	A	687	93.381	90.824	32.070	1.00	0.00	O
ATOM	141	N	ARG	A	688	92.333	88.960	33.849	1.00	0.00	N
ATOM	142	CA	ARG	A	688	92.599	87.604	34.223	1.00	0.00	C
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ATOM	146	CG	ARG	A	688	92.029	86.663	31.904	1.00	0.00	C
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ATOM	148	NE	ARG	A	688	89.767	86.635	31.007	1.00	0.00	N
ATOM	149	CZ	ARG	A	688	88.563	86.004	30.878	1.00	0.00	C
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ATOM	154	C	ASP	A	689	96.677	86.259	35.041	1.00	0.00	C
ATOM	155	O	ASP	A	689	97.794	86.626	34.679	1.00	0.00	O
ATOM	156	CB	ASP	A	689	96.327	85.687	32.677	1.00	0.00	C
ATOM	157	CG	ASP	A	689	97.584	84.831	32.593	1.00	0.00	C
ATOM	158	OD1	ASP	A	689	97.900	84.143	33.600	1.00	0.00	O
ATOM	159	OD2	ASP	A	689	98.240	84.852	31.518	1.00	0.00	O
ATOM	160	N	THR	A	690	96.212	86.477	36.286	1.00	0.00	N
ATOM	161	CA	THR	A	690	97.053	87.047	37.299	1.00	0.00	C
ATOM	162	C	THR	A	690	97.050	86.057	38.418	1.00	0.00	C
ATOM	163	O	THR	A	690	96.168	85.204	38.499	1.00	0.00	O
ATOM	164	CB	THR	A	690	96.559	88.353	37.861	1.00	0.00	C
ATOM	165	CG2	THR	A	690	96.461	89.377	36.718	1.00	0.00	C
ATOM	166	OG1	THR	A	690	95.297	88.181	38.487	1.00	0.00	O
ATOM	167	N	LYS	A	691	98.062	86.123	39.304	1.00	0.00	N
ATOM	168	CA	LYS	A	691	98.114	85.179	40.380	1.00	0.00	C
ATOM	169	C	LYS	A	691	97.042	85.518	41.362	1.00	0.00	C

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ATOM	171	CB	LYS A 691	99.450	85.180	41.135	1.00	0.00	C
ATOM	172	CG	LYS A 691	100.587	84.558	40.329	1.00	0.00	C
ATOM	173	CD	LYS A 691	101.977	84.895	40.863	1.00	0.00	C
ATOM	174	CE	LYS A 691	103.106	84.160	40.143	1.00	0.00	C
ATOM	175	NZ	LYS A 691	104.413	84.546	40.717	1.00	0.00	N1+
ATOM	176	N	ASN A 692	96.359	84.483	41.874	1.00	0.00	N
ATOM	177	CA	ASN A 692	95.315	84.710	42.822	1.00	0.00	C
ATOM	178	C	ASN A 692	95.917	85.187	44.106	1.00	0.00	C
ATOM	179	O	ASN A 692	95.385	86.081	44.757	1.00	0.00	O
ATOM	180	CB	ASN A 692	94.502	83.444	43.128	1.00	0.00	C
ATOM	181	CG	ASN A 692	93.213	83.875	43.810	1.00	0.00	C
ATOM	182	ND2	ASN A 692	92.059	83.402	43.269	1.00	0.00	N
ATOM	183	OD1	ASN A 692	93.229	84.619	44.789	1.00	0.00	O
ATOM	184	N	TRP A 693	97.064	84.598	44.494	1.00	0.00	N
ATOM	185	CA	TRP A 693	97.645	84.922	45.762	1.00	0.00	C
ATOM	186	C	TRP A 693	98.001	86.371	45.770	1.00	0.00	C
ATOM	187	O	TRP A 693	97.775	87.070	46.756	1.00	0.00	O
ATOM	188	CB	TRP A 693	98.927	84.126	46.078	1.00	0.00	C
ATOM	189	CG	TRP A 693	100.111	84.409	45.180	1.00	0.00	C
ATOM	190	CD1	TRP A 693	100.517	83.783	44.037	1.00	0.00	C
ATOM	191	CD2	TRP A 693	101.076	85.437	45.445	1.00	0.00	C
ATOM	192	CE2	TRP A 693	102.033	85.378	44.431	1.00	0.00	C
ATOM	193	CE3	TRP A 693	101.163	86.354	46.453	1.00	0.00	C
ATOM	194	NE1	TRP A 693	101.677	84.358	43.575	1.00	0.00	N
ATOM	195	CZ2	TRP A 693	103.092	86.237	44.409	1.00	0.00	C
ATOM	196	CZ3	TRP A 693	102.232	87.223	46.425	1.00	0.00	C
ATOM	197	CH2	TRP A 693	103.178	87.166	45.424	1.00	0.00	C
ATOM	198	N	LYS A 694	98.561	86.864	44.652	1.00	0.00	N
ATOM	199	CA	LYS A 694	98.990	88.228	44.598	1.00	0.00	C
ATOM	200	C	LYS A 694	97.801	89.123	44.752	1.00	0.00	C
ATOM	201	O	LYS A 694	97.900	90.179	45.378	1.00	0.00	O
ATOM	202	CB	LYS A 694	99.725	88.577	43.293	1.00	0.00	C
ATOM	203	CG	LYS A 694	98.844	88.414	42.065	1.00	0.00	C
ATOM	204	CD	LYS A 694	99.498	88.813	40.749	1.00	0.00	C
ATOM	205	CE	LYS A 694	100.536	87.809	40.251	1.00	0.00	C
ATOM	206	NZ	LYS A 694	100.835	88.072	38.828	1.00	0.00	N1+
ATOM	207	N	ILE A 695	96.643	88.733	44.195	1.00	0.00	N
ATOM	208	CA	ILE A 695	95.470	89.554	44.281	1.00	0.00	C
ATOM	209	C	ILE A 695	95.115	89.685	45.730	1.00	0.00	C
ATOM	210	O	ILE A 695	94.822	90.774	46.220	1.00	0.00	O
ATOM	211	CB	ILE A 695	94.254	88.900	43.691	1.00	0.00	C
ATOM	212	CG1	ILE A 695	94.492	88.352	42.282	1.00	0.00	C
ATOM	213	CG2	ILE A 695	93.128	89.941	43.735	1.00	0.00	C

ATOM	214	CD1 ILE A 695	93.354	87.444	41.811	1.00	0.00	C
ATOM	215	N ILE A 696	95.127	88.549	46.449	1.00	0.00	N
ATOM	216	CA ILE A 696	94.740	88.521	47.828	1.00	0.00	C
ATOM	217	C ILE A 696	95.707	89.335	48.618	1.00	0.00	C
ATOM	218	O ILE A 696	95.310	90.107	49.490	1.00	0.00	O
ATOM	219	CB ILE A 696	94.723	87.136	48.406	1.00	0.00	C
ATOM	220	CG1 ILE A 696	93.698	86.260	47.665	1.00	0.00	C
ATOM	221	CG2 ILE A 696	94.450	87.255	49.916	1.00	0.00	C
ATOM	222	CD1 ILE A 696	93.803	84.775	48.008	1.00	0.00	C
ATOM	223	N LEU A 697	97.012	89.196	48.326	1.00	0.00	N
ATOM	224	CA LEU A 697	97.982	89.922	49.087	1.00	0.00	C
ATOM	225	C LEU A 697	97.674	91.360	48.873	1.00	0.00	C
ATOM	226	O LEU A 697	97.609	92.135	49.823	1.00	0.00	O
ATOM	227	CB LEU A 697	99.428	89.648	48.614	1.00	0.00	C
ATOM	228	CG LEU A 697	100.562	90.204	49.510	1.00	0.00	C
ATOM	229	CD1 LEU A 697	101.936	89.854	48.914	1.00	0.00	C
ATOM	230	CD2 LEU A 697	100.436	91.706	49.804	1.00	0.00	C
ATOM	231	N CYS A 698	97.401	91.732	47.611	1.00	0.00	N
ATOM	232	CA CYS A 698	97.160	93.098	47.270	1.00	0.00	C
ATOM	233	C CYS A 698	95.987	93.562	48.060	1.00	0.00	C
ATOM	234	O CYS A 698	95.958	94.708	48.496	1.00	0.00	O
ATOM	235	CB CYS A 698	96.828	93.296	45.779	1.00	0.00	C
ATOM	236	SG CYS A 698	98.249	92.944	44.703	1.00	0.00	S
ATOM	237	N LEU A 699	95.016	92.666	48.299	1.00	0.00	N
ATOM	238	CA LEU A 699	93.789	93.013	48.957	1.00	0.00	C
ATOM	239	C LEU A 699	94.048	93.578	50.315	1.00	0.00	C
ATOM	240	O LEU A 699	93.384	94.530	50.717	1.00	0.00	O
ATOM	241	CB LEU A 699	92.875	91.799	49.184	1.00	0.00	C
ATOM	242	CG LEU A 699	91.555	92.162	49.888	1.00	0.00	C
ATOM	243	CD1 LEU A 699	90.604	92.912	48.945	1.00	0.00	C
ATOM	244	CD2 LEU A 699	90.921	90.937	50.562	1.00	0.00	C
ATOM	245	N PHE A 700	94.967	92.989	51.106	1.00	0.00	N
ATOM	246	CA PHE A 700	95.141	93.549	52.416	1.00	0.00	C
ATOM	247	C PHE A 700	95.787	94.908	52.332	1.00	0.00	C
ATOM	248	O PHE A 700	95.305	95.880	52.909	1.00	0.00	O
ATOM	249	CB PHE A 700	96.008	92.695	53.355	1.00	0.00	C
ATOM	250	CG PHE A 700	95.790	93.250	54.717	1.00	0.00	C
ATOM	251	CD1 PHE A 700	94.745	92.792	55.488	1.00	0.00	C
ATOM	252	CD2 PHE A 700	96.607	94.234	55.225	1.00	0.00	C
ATOM	253	CE1 PHE A 700	94.521	93.294	56.746	1.00	0.00	C
ATOM	254	CE2 PHE A 700	96.386	94.741	56.484	1.00	0.00	C
ATOM	255	CZ PHE A 700	95.344	94.272	57.247	1.00	0.00	C
ATOM	256	N ILE A 701	96.903	94.957	51.582	1.00	0.00	N
ATOM	257	CA ILE A 701	97.857	96.000	51.287	1.00	0.00	C

ATOM	258	C	ILE A 701	97.352	97.090	50.361	1.00	0.00	C
ATOM	259	O	ILE A 701	98.046	98.075	50.124	1.00	0.00	O
ATOM	260	CB	ILE A 701	99.229	95.453	50.923	1.00	0.00	C
ATOM	261	CG1	ILE A 701	100.257	96.570	50.675	1.00	0.00	C
ATOM	262	CG2	ILE A 701	99.105	94.407	49.814	1.00	0.00	C
ATOM	263	CD1	ILE A 701	100.607	97.371	51.925	1.00	0.00	C
ATOM	264	N	ILE A 702	96.135	96.964	49.794	1.00	0.00	N
ATOM	265	CA	ILE A 702	95.701	97.713	48.637	1.00	0.00	C
ATOM	266	C	ILE A 702	96.022	99.182	48.629	1.00	0.00	C
ATOM	267	O	ILE A 702	96.551	99.587	47.597	1.00	0.00	O
ATOM	268	CB	ILE A 702	94.206	97.682	48.412	1.00	0.00	C
ATOM	269	CG1	ILE A 702	93.471	98.345	49.586	1.00	0.00	C
ATOM	270	CG2	ILE A 702	93.735	96.248	48.133	1.00	0.00	C
ATOM	271	CD1	ILE A 702	91.997	98.639	49.305	1.00	0.00	C
ATOM	272	N	PRO A 703	95.776	100.021	49.606	1.00	0.00	N
ATOM	273	CA	PRO A 703	96.023	101.440	49.446	1.00	0.00	C
ATOM	274	C	PRO A 703	97.396	101.785	48.935	1.00	0.00	C
ATOM	275	O	PRO A 703	97.487	102.557	47.981	1.00	0.00	O
ATOM	276	CB	PRO A 703	95.789	102.044	50.828	1.00	0.00	C
ATOM	277	CG	PRO A 703	96.192	100.903	51.777	1.00	0.00	C
ATOM	278	CD	PRO A 703	95.818	99.625	51.005	1.00	0.00	C
ATOM	279	N	LEU A 704	98.469	101.286	49.577	1.00	0.00	N
ATOM	280	CA	LEU A 704	99.799	101.567	49.106	1.00	0.00	C
ATOM	281	C	LEU A 704	100.136	100.746	47.888	1.00	0.00	C
ATOM	282	O	LEU A 704	100.499	101.276	46.841	1.00	0.00	O
ATOM	283	CB	LEU A 704	100.853	101.226	50.184	1.00	0.00	C
ATOM	284	CG	LEU A 704	102.302	101.725	49.958	1.00	0.00	C
ATOM	285	CD1	LEU A 704	103.194	101.243	51.107	1.00	0.00	C
ATOM	286	CD2	LEU A 704	102.908	101.366	48.592	1.00	0.00	C
ATOM	287	N	VAL A 705	100.005	99.411	48.040	1.00	0.00	N
ATOM	288	CA	VAL A 705	100.446	98.376	47.134	1.00	0.00	C
ATOM	289	C	VAL A 705	99.644	98.230	45.878	1.00	0.00	C
ATOM	290	O	VAL A 705	100.181	97.839	44.843	1.00	0.00	O
ATOM	291	CB	VAL A 705	100.422	97.024	47.767	1.00	0.00	C
ATOM	292	CG1	VAL A 705	98.950	96.628	47.926	1.00	0.00	C
ATOM	293	CG2	VAL A 705	101.244	96.049	46.906	1.00	0.00	C
ATOM	294	N	GLY A 706	98.333	98.510	45.933	1.00	0.00	N
ATOM	295	CA	GLY A 706	97.435	98.177	44.873	1.00	0.00	C
ATOM	296	C	GLY A 706	97.814	98.834	43.583	1.00	0.00	C
ATOM	297	O	GLY A 706	97.560	98.284	42.513	1.00	0.00	O
ATOM	298	N	CYS A 707	98.388	100.044	43.640	1.00	0.00	N
ATOM	299	CA	CYS A 707	98.618	100.754	42.419	1.00	0.00	C
ATOM	300	C	CYS A 707	99.505	100.008	41.464	1.00	0.00	C
ATOM	301	O	CYS A 707	99.133	99.799	40.310	1.00	0.00	O

ATOM	302	CB	CYS	A	707	99.277	102.127	42.643	1.00	0.00	C
ATOM	303	SG	CYS	A	707	98.201	103.302	43.518	1.00	0.00	S
ATOM	304	N	GLY	A	708	100.699	99.582	41.910	1.00	0.00	N
ATOM	305	CA	GLY	A	708	101.654	99.058	40.970	1.00	0.00	C
ATOM	306	C	GLY	A	708	101.321	97.734	40.336	1.00	0.00	C
ATOM	307	O	GLY	A	708	101.309	97.623	39.110	1.00	0.00	O
ATOM	308	N	PHE	A	709	101.040	96.693	41.142	1.00	0.00	N
ATOM	309	CA	PHE	A	709	100.970	95.376	40.566	1.00	0.00	C
ATOM	310	C	PHE	A	709	99.760	95.108	39.734	1.00	0.00	C
ATOM	311	O	PHE	A	709	99.871	94.499	38.673	1.00	0.00	O
ATOM	312	CB	PHE	A	709	101.060	94.220	41.572	1.00	0.00	C
ATOM	313	CG	PHE	A	709	101.337	93.030	40.714	1.00	0.00	C
ATOM	314	CD1	PHE	A	709	102.634	92.703	40.397	1.00	0.00	C
ATOM	315	CD2	PHE	A	709	100.319	92.259	40.202	1.00	0.00	C
ATOM	316	CE1	PHE	A	709	102.915	91.620	39.599	1.00	0.00	C
ATOM	317	CE2	PHE	A	709	100.597	91.178	39.397	1.00	0.00	C
ATOM	318	CZ	PHE	A	709	101.894	90.853	39.093	1.00	0.00	C
ATOM	319	N	VAL	A	710	98.570	95.551	40.181	1.00	0.00	N
ATOM	320	CA	VAL	A	710	97.371	95.104	39.532	1.00	0.00	C
ATOM	321	C	VAL	A	710	97.375	95.449	38.074	1.00	0.00	C
ATOM	322	O	VAL	A	710	97.494	96.604	37.664	1.00	0.00	O
ATOM	323	CB	VAL	A	710	96.115	95.669	40.127	1.00	0.00	C
ATOM	324	CG1	VAL	A	710	96.040	95.248	41.595	1.00	0.00	C
ATOM	325	CG2	VAL	A	710	96.110	97.189	39.933	1.00	0.00	C
ATOM	326	N	SER	A	711	97.229	94.405	37.237	1.00	0.00	N
ATOM	327	CA	SER	A	711	97.141	94.663	35.836	1.00	0.00	C
ATOM	328	C	SER	A	711	95.713	94.426	35.490	1.00	0.00	C
ATOM	329	O	SER	A	711	95.310	93.318	35.149	1.00	0.00	O
ATOM	330	CB	SER	A	711	97.954	93.681	34.970	1.00	0.00	C
ATOM	331	OG	SER	A	711	99.339	93.789	35.256	1.00	0.00	O
ATOM	332	N	PHE	A	712	94.907	95.493	35.564	1.00	0.00	N
ATOM	333	CA	PHE	A	712	93.515	95.416	35.255	1.00	0.00	C
ATOM	334	C	PHE	A	712	93.333	95.902	33.860	1.00	0.00	C
ATOM	335	O	PHE	A	712	94.295	96.334	33.224	1.00	0.00	O
ATOM	336	CB	PHE	A	712	92.649	96.222	36.245	1.00	0.00	C
ATOM	337	CG	PHE	A	712	93.194	97.609	36.342	1.00	0.00	C
ATOM	338	CD1	PHE	A	712	94.357	97.846	37.038	1.00	0.00	C
ATOM	339	CD2	PHE	A	712	92.539	98.675	35.772	1.00	0.00	C
ATOM	340	CE1	PHE	A	712	94.869	99.119	37.140	1.00	0.00	C
ATOM	341	CE2	PHE	A	712	93.047	99.950	35.868	1.00	0.00	C
ATOM	342	CZ	PHE	A	712	94.215	100.176	36.553	1.00	0.00	C
ATOM	343	N	ARG	A	713	92.086	95.803	33.336	1.00	0.00	N
ATOM	344	CA	ARG	A	713	91.796	96.304	32.020	1.00	0.00	C
ATOM	345	C	ARG	A	713	92.291	97.722	32.019	1.00	0.00	C

ATOM	346	O	ARG A 713	92.423	98.347	33.065	1.00	0.00	O
ATOM	347	CB	ARG A 713	90.301	96.284	31.652	1.00	0.00	C
ATOM	348	CG	ARG A 713	89.772	94.862	31.419	1.00	0.00	C
ATOM	349	CD	ARG A 713	88.324	94.801	30.920	1.00	0.00	C
ATOM	350	NE	ARG A 713	88.028	93.374	30.602	1.00	0.00	N
ATOM	351	CZ	ARG A 713	86.988	93.049	29.781	1.00	0.00	C
ATOM	352	NH1	ARG A 713	86.183	94.026	29.273	1.00	0.00	N
ATOM	353	NH2	ARG A 713	86.760	91.742	29.458	1.00	0.00	N
ATOM	354	N	LYS A 714	92.511	98.298	30.836	1.00	0.00	N
ATOM	355	CA	LYS A 714	93.361	99.446	30.653	1.00	0.00	C
ATOM	356	C	LYS A 714	93.192	100.621	31.595	1.00	0.00	C
ATOM	357	O	LYS A 714	94.199	101.048	32.146	1.00	0.00	O
ATOM	358	CB	LYS A 714	93.237	99.987	29.219	1.00	0.00	C
ATOM	359	CG	LYS A 714	94.301	101.013	28.841	1.00	0.00	C
ATOM	360	CD	LYS A 714	94.361	101.276	27.334	1.00	0.00	C
ATOM	361	CE	LYS A 714	95.413	102.308	26.931	1.00	0.00	C
ATOM	362	NZ	LYS A 714	95.382	102.509	25.466	1.00	0.00	N1+
ATOM	363	N	LYS A 715	91.983	101.164	31.841	1.00	0.00	N
ATOM	364	CA	LYS A 715	91.755	102.364	32.636	1.00	0.00	C
ATOM	365	C	LYS A 715	92.835	103.402	32.444	1.00	0.00	C
ATOM	366	O	LYS A 715	93.637	103.665	33.340	1.00	0.00	O
ATOM	367	CB	LYS A 715	91.681	102.062	34.138	1.00	0.00	C
ATOM	368	CG	LYS A 715	90.648	100.988	34.462	1.00	0.00	C
ATOM	369	CD	LYS A 715	89.234	101.361	34.031	1.00	0.00	C
ATOM	370	CE	LYS A 715	88.409	101.932	35.180	1.00	0.00	C
ATOM	371	NZ	LYS A 715	89.101	103.109	35.750	1.00	0.00	N1+
ATOM	372	N	PRO A 716	92.817	104.037	31.295	1.00	0.00	N
ATOM	373	CA	PRO A 716	93.797	105.021	30.889	1.00	0.00	C
ATOM	374	C	PRO A 716	93.718	106.404	31.458	1.00	0.00	C
ATOM	375	O	PRO A 716	94.637	107.173	31.183	1.00	0.00	O
ATOM	376	CB	PRO A 716	93.741	105.059	29.360	1.00	0.00	C
ATOM	377	CG	PRO A 716	92.355	104.496	29.014	1.00	0.00	C
ATOM	378	CD	PRO A 716	92.075	103.516	30.159	1.00	0.00	C
ATOM	379	N	VAL A 717	92.666	106.773	32.223	1.00	0.00	N
ATOM	380	CA	VAL A 717	92.521	108.155	32.612	1.00	0.00	C
ATOM	381	C	VAL A 717	93.752	108.650	33.300	1.00	0.00	C
ATOM	382	O	VAL A 717	94.282	108.015	34.208	1.00	0.00	O
ATOM	383	CB	VAL A 717	91.356	108.406	33.526	1.00	0.00	C
ATOM	384	CG1	VAL A 717	91.602	107.667	34.851	1.00	0.00	C
ATOM	385	CG2	VAL A 717	91.183	109.928	33.682	1.00	0.00	C
ATOM	386	N	ASP A 718	94.251	109.817	32.837	1.00	0.00	N
ATOM	387	CA	ASP A 718	95.422	110.437	33.386	1.00	0.00	C
ATOM	388	C	ASP A 718	95.016	111.433	34.408	1.00	0.00	C
ATOM	389	O	ASP A 718	93.931	111.360	34.983	1.00	0.00	O

ATOM	390	CB	ASP A 718	96.299	111.183	32.366	1.00	0.00	C
ATOM	391	CG	ASP A 718	97.229	110.172	31.733	1.00	0.00	C
ATOM	392	OD1	ASP A 718	97.400	109.081	32.339	1.00	0.00	O
ATOM	393	OD2	ASP A 718	97.797	110.476	30.650	1.00	0.00	O
ATOM	394	N	LYS A 719	95.923	112.394	34.661	1.00	0.00	N
ATOM	395	CA	LYS A 719	95.684	113.411	35.638	1.00	0.00	C
ATOM	396	C	LYS A 719	95.601	112.734	36.957	1.00	0.00	C
ATOM	397	O	LYS A 719	95.008	113.255	37.903	1.00	0.00	O
ATOM	398	CB	LYS A 719	94.357	114.153	35.407	1.00	0.00	C
ATOM	399	CG	LYS A 719	94.353	115.054	34.171	1.00	0.00	C
ATOM	400	CD	LYS A 719	95.291	116.257	34.290	1.00	0.00	C
ATOM	401	CE	LYS A 719	94.743	117.354	35.207	1.00	0.00	C
ATOM	402	NZ	LYS A 719	95.694	118.488	35.275	1.00	0.00	N1+
HETATM	403	N	HIE A 720	96.218	111.545	37.049	1.00	0.00	N
HETATM	404	CA	HIE A 720	96.214	110.779	38.261	1.00	0.00	C
HETATM	405	C	HIE A 720	94.797	110.460	38.595	1.00	0.00	C
HETATM	406	O	HIE A 720	94.481	110.101	39.727	1.00	0.00	O
HETATM	407	CB	HIE A 720	96.840	111.530	39.449	1.00	0.00	C
HETATM	408	CG	HIE A 720	98.311	111.766	39.285	1.00	0.00	C
HETATM	409	CD2	HIE A 720	98.981	112.823	38.745	1.00	0.00	C
HETATM	410	ND1	HIE A 720	99.282	110.874	39.684	1.00	0.00	N
HETATM	411	CE1	HIE A 720	100.478	111.427	39.370	1.00	0.00	C
HETATM	412	NE2	HIE A 720	100.346	112.610	38.797	1.00	0.00	N
ATOM	413	N	LYS A 721	93.905	110.580	37.595	1.00	0.00	N
ATOM	414	CA	LYS A 721	92.534	110.205	37.768	1.00	0.00	C
ATOM	415	C	LYS A 721	92.547	108.728	37.908	1.00	0.00	C
ATOM	416	O	LYS A 721	91.784	108.143	38.668	1.00	0.00	O
ATOM	417	CB	LYS A 721	91.650	110.505	36.546	1.00	0.00	C
ATOM	418	CG	LYS A 721	91.080	111.920	36.497	1.00	0.00	C
ATOM	419	CD	LYS A 721	90.067	112.202	37.608	1.00	0.00	C
ATOM	420	CE	LYS A 721	90.646	112.098	39.018	1.00	0.00	C
ATOM	421	NZ	LYS A 721	89.595	112.379	40.021	1.00	0.00	N1+
ATOM	422	N	LYS A 722	93.483	108.103	37.176	1.00	0.00	N
ATOM	423	CA	LYS A 722	93.532	106.682	37.050	1.00	0.00	C
ATOM	424	C	LYS A 722	93.652	106.020	38.382	1.00	0.00	C
ATOM	425	O	LYS A 722	93.008	105.003	38.617	1.00	0.00	O
ATOM	426	CB	LYS A 722	94.717	106.189	36.202	1.00	0.00	C
ATOM	427	CG	LYS A 722	96.089	106.546	36.783	1.00	0.00	C
ATOM	428	CD	LYS A 722	96.331	108.052	36.905	1.00	0.00	C
ATOM	429	CE	LYS A 722	97.737	108.401	37.401	1.00	0.00	C
ATOM	430	NZ	LYS A 722	98.707	108.305	36.286	1.00	0.00	N1+
ATOM	431	N	LEU A 723	94.464	106.569	39.300	1.00	0.00	N
ATOM	432	CA	LEU A 723	94.686	105.882	40.536	1.00	0.00	C
ATOM	433	C	LEU A 723	93.383	105.704	41.265	1.00	0.00	C

ATOM	434	O	LEU A 723	93.042	104.591	41.664	1.00	0.00	O
ATOM	435	CB	LEU A 723	95.683	106.662	41.429	1.00	0.00	C
ATOM	436	CG	LEU A 723	96.098	106.032	42.779	1.00	0.00	C
ATOM	437	CD1	LEU A 723	97.217	106.864	43.427	1.00	0.00	C
ATOM	438	CD2	LEU A 723	94.922	105.862	43.753	1.00	0.00	C
ATOM	439	N	LEU A 724	92.599	106.790	41.427	1.00	0.00	N
ATOM	440	CA	LEU A 724	91.382	106.707	42.190	1.00	0.00	C
ATOM	441	C	LEU A 724	90.421	105.799	41.503	1.00	0.00	C
ATOM	442	O	LEU A 724	89.822	104.920	42.124	1.00	0.00	O
ATOM	443	CB	LEU A 724	90.656	108.059	42.316	1.00	0.00	C
ATOM	444	CG	LEU A 724	91.454	109.140	43.064	1.00	0.00	C
ATOM	445	CD1	LEU A 724	91.690	108.740	44.530	1.00	0.00	C
ATOM	446	CD2	LEU A 724	92.743	109.504	42.316	1.00	0.00	C
ATOM	447	N	TRP A 725	90.271	105.976	40.180	1.00	0.00	N
ATOM	448	CA	TRP A 725	89.321	105.211	39.439	1.00	0.00	C
ATOM	449	C	TRP A 725	89.721	103.775	39.521	1.00	0.00	C
ATOM	450	O	TRP A 725	88.880	102.891	39.663	1.00	0.00	O
ATOM	451	CB	TRP A 725	89.244	105.622	37.958	1.00	0.00	C
ATOM	452	CG	TRP A 725	88.644	106.992	37.726	1.00	0.00	C
ATOM	453	CD1	TRP A 725	89.257	108.208	37.622	1.00	0.00	C
ATOM	454	CD2	TRP A 725	87.235	107.237	37.579	1.00	0.00	C
ATOM	455	CE2	TRP A 725	87.076	108.612	37.393	1.00	0.00	C
ATOM	456	CE3	TRP A 725	86.166	106.390	37.598	1.00	0.00	C
ATOM	457	NE1	TRP A 725	88.325	109.194	37.424	1.00	0.00	N
ATOM	458	CZ2	TRP A 725	85.835	109.162	37.222	1.00	0.00	C
ATOM	459	CZ3	TRP A 725	84.919	106.948	37.422	1.00	0.00	C
ATOM	460	CH2	TRP A 725	84.757	108.306	37.241	1.00	0.00	C
ATOM	461	N	TYR A 726	91.034	103.504	39.458	1.00	0.00	N
ATOM	462	CA	TYR A 726	91.480	102.148	39.495	1.00	0.00	C
ATOM	463	C	TYR A 726	91.062	101.507	40.772	1.00	0.00	C
ATOM	464	O	TYR A 726	90.576	100.376	40.764	1.00	0.00	O
ATOM	465	CB	TYR A 726	93.003	101.965	39.422	1.00	0.00	C
ATOM	466	CG	TYR A 726	93.197	100.595	39.975	1.00	0.00	C
ATOM	467	CD1	TYR A 726	92.808	99.484	39.259	1.00	0.00	C
ATOM	468	CD2	TYR A 726	93.766	100.430	41.216	1.00	0.00	C
ATOM	469	CE1	TYR A 726	92.976	98.227	39.784	1.00	0.00	C
ATOM	470	CE2	TYR A 726	93.937	99.176	41.746	1.00	0.00	C
ATOM	471	CZ	TYR A 726	93.539	98.075	41.027	1.00	0.00	C
ATOM	472	OH	TYR A 726	93.718	96.787	41.566	1.00	0.00	O
ATOM	473	N	TYR A 727	91.235	102.201	41.907	1.00	0.00	N
ATOM	474	CA	TYR A 727	90.903	101.579	43.155	1.00	0.00	C
ATOM	475	C	TYR A 727	89.454	101.235	43.193	1.00	0.00	C
ATOM	476	O	TYR A 727	89.093	100.139	43.622	1.00	0.00	O
ATOM	477	CB	TYR A 727	91.233	102.438	44.389	1.00	0.00	C

ATOM	478	CG	TYR	A	727	92.688	102.278	44.659	1.00	0.00	C
ATOM	479	CD1	TYR	A	727	93.117	101.198	45.392	1.00	0.00	C
ATOM	480	CD2	TYR	A	727	93.619	103.177	44.192	1.00	0.00	C
ATOM	481	CE1	TYR	A	727	94.452	101.013	45.663	1.00	0.00	C
ATOM	482	CE2	TYR	A	727	94.957	102.998	44.459	1.00	0.00	C
ATOM	483	CZ	TYR	A	727	95.372	101.915	45.195	1.00	0.00	C
ATOM	484	OH	TYR	A	727	96.743	101.726	45.475	1.00	0.00	O
ATOM	485	N	VAL	A	728	88.572	102.141	42.743	1.00	0.00	N
ATOM	486	CA	VAL	A	728	87.178	101.818	42.830	1.00	0.00	C
ATOM	487	C	VAL	A	728	86.914	100.615	41.976	1.00	0.00	C
ATOM	488	O	VAL	A	728	86.186	99.708	42.379	1.00	0.00	O
ATOM	489	CB	VAL	A	728	86.266	102.931	42.387	1.00	0.00	C
ATOM	490	CG1	VAL	A	728	86.441	103.178	40.881	1.00	0.00	C
ATOM	491	CG2	VAL	A	728	84.826	102.556	42.784	1.00	0.00	C
ATOM	492	N	ALA	A	729	87.521	100.566	40.775	1.00	0.00	N
ATOM	493	CA	ALA	A	729	87.323	99.484	39.853	1.00	0.00	C
ATOM	494	C	ALA	A	729	87.811	98.221	40.484	1.00	0.00	C
ATOM	495	O	ALA	A	729	87.236	97.153	40.289	1.00	0.00	O
ATOM	496	CB	ALA	A	729	88.086	99.668	38.530	1.00	0.00	C
ATOM	497	N	PHE	A	730	88.918	98.304	41.244	1.00	0.00	N
ATOM	498	CA	PHE	A	730	89.436	97.134	41.890	1.00	0.00	C
ATOM	499	C	PHE	A	730	88.407	96.654	42.864	1.00	0.00	C
ATOM	500	O	PHE	A	730	88.164	95.454	42.982	1.00	0.00	O
ATOM	501	CB	PHE	A	730	90.733	97.407	42.671	1.00	0.00	C
ATOM	502	CG	PHE	A	730	91.141	96.129	43.323	1.00	0.00	C
ATOM	503	CD1	PHE	A	730	91.737	95.127	42.592	1.00	0.00	C
ATOM	504	CD2	PHE	A	730	90.935	95.934	44.670	1.00	0.00	C
ATOM	505	CE1	PHE	A	730	92.119	93.951	43.191	1.00	0.00	C
ATOM	506	CE2	PHE	A	730	91.313	94.760	45.273	1.00	0.00	C
ATOM	507	CZ	PHE	A	730	91.906	93.764	44.536	1.00	0.00	C
ATOM	508	N	PHE	A	731	87.767	97.598	43.576	1.00	0.00	N
ATOM	509	CA	PHE	A	731	86.783	97.304	44.574	1.00	0.00	C
ATOM	510	C	PHE	A	731	85.583	96.660	43.959	1.00	0.00	C
ATOM	511	O	PHE	A	731	84.900	95.882	44.620	1.00	0.00	O
ATOM	512	CB	PHE	A	731	86.310	98.530	45.376	1.00	0.00	C
ATOM	513	CG	PHE	A	731	87.342	98.820	46.415	1.00	0.00	C
ATOM	514	CD1	PHE	A	731	87.342	98.109	47.591	1.00	0.00	C
ATOM	515	CD2	PHE	A	731	88.293	99.794	46.226	1.00	0.00	C
ATOM	516	CE1	PHE	A	731	88.280	98.357	48.567	1.00	0.00	C
ATOM	517	CE2	PHE	A	731	89.234	100.048	47.197	1.00	0.00	C
ATOM	518	CZ	PHE	A	731	89.230	99.330	48.369	1.00	0.00	C
ATOM	519	N	THR	A	732	85.266	96.990	42.694	1.00	0.00	N
ATOM	520	CA	THR	A	732	84.079	96.474	42.070	1.00	0.00	C
ATOM	521	C	THR	A	732	84.126	94.979	41.919	1.00	0.00	C

ATOM	522	O	THR A 732	83.086	94.329	42.005	1.00	0.00	O
ATOM	523	CB	THR A 732	83.801	97.042	40.705	1.00	0.00	C
ATOM	524	CG2	THR A 732	83.800	98.579	40.807	1.00	0.00	C
ATOM	525	OG1	THR A 732	84.776	96.612	39.769	1.00	0.00	O
ATOM	526	N	SER A 733	85.310	94.375	41.679	1.00	0.00	N
ATOM	527	CA	SER A 733	85.356	92.961	41.396	1.00	0.00	C
ATOM	528	C	SER A 733	84.785	92.157	42.526	1.00	0.00	C
ATOM	529	O	SER A 733	85.082	92.366	43.700	1.00	0.00	O
ATOM	530	CB	SER A 733	86.774	92.429	41.108	1.00	0.00	C
ATOM	531	OG	SER A 733	87.578	92.510	42.274	1.00	0.00	O
ATOM	532	N	PRO A 734	83.939	91.228	42.153	1.00	0.00	N
ATOM	533	CA	PRO A 734	83.307	90.338	43.093	1.00	0.00	C
ATOM	534	C	PRO A 734	84.263	89.374	43.708	1.00	0.00	C
ATOM	535	O	PRO A 734	83.986	88.884	44.801	1.00	0.00	O
ATOM	536	CB	PRO A 734	82.179	89.648	42.329	1.00	0.00	C
ATOM	537	CG	PRO A 734	81.821	90.650	41.221	1.00	0.00	C
ATOM	538	CD	PRO A 734	83.130	91.412	40.957	1.00	0.00	C
ATOM	539	N	PHE A 735	85.372	89.054	43.014	1.00	0.00	N
ATOM	540	CA	PHE A 735	86.316	88.125	43.554	1.00	0.00	C
ATOM	541	C	PHE A 735	86.890	88.735	44.786	1.00	0.00	C
ATOM	542	O	PHE A 735	86.984	88.088	45.829	1.00	0.00	O
ATOM	543	CB	PHE A 735	87.484	87.831	42.593	1.00	0.00	C
ATOM	544	CG	PHE A 735	88.397	86.862	43.267	1.00	0.00	C
ATOM	545	CD1	PHE A 735	88.115	85.518	43.279	1.00	0.00	C
ATOM	546	CD2	PHE A 735	89.543	87.306	43.884	1.00	0.00	C
ATOM	547	CE1	PHE A 735	88.965	84.630	43.902	1.00	0.00	C
ATOM	548	CE2	PHE A 735	90.397	86.429	44.509	1.00	0.00	C
ATOM	549	CZ	PHE A 735	90.103	85.085	44.520	1.00	0.00	C
ATOM	550	N	VAL A 736	87.282	90.019	44.699	1.00	0.00	N
ATOM	551	CA	VAL A 736	87.864	90.657	45.838	1.00	0.00	C
ATOM	552	C	VAL A 736	86.813	90.776	46.891	1.00	0.00	C
ATOM	553	O	VAL A 736	87.087	90.611	48.076	1.00	0.00	O
ATOM	554	CB	VAL A 736	88.419	92.027	45.564	1.00	0.00	C
ATOM	555	CG1	VAL A 736	89.514	91.893	44.492	1.00	0.00	C
ATOM	556	CG2	VAL A 736	87.283	92.994	45.207	1.00	0.00	C
ATOM	557	N	VAL A 737	85.565	91.060	46.471	1.00	0.00	N
ATOM	558	CA	VAL A 737	84.493	91.233	47.403	1.00	0.00	C
ATOM	559	C	VAL A 737	84.296	89.955	48.154	1.00	0.00	C
ATOM	560	O	VAL A 737	84.115	89.970	49.368	1.00	0.00	O
ATOM	561	CB	VAL A 737	83.190	91.568	46.737	1.00	0.00	C
ATOM	562	CG1	VAL A 737	82.090	91.634	47.809	1.00	0.00	C
ATOM	563	CG2	VAL A 737	83.367	92.871	45.939	1.00	0.00	C
ATOM	564	N	PHE A 738	84.334	88.814	47.444	1.00	0.00	N
ATOM	565	CA	PHE A 738	84.108	87.548	48.078	1.00	0.00	C

ATOM	566	C	PHE A 738	85.175	87.294	49.091	1.00	0.00	C
ATOM	567	O	PHE A 738	84.884	86.926	50.228	1.00	0.00	O
ATOM	568	CB	PHE A 738	84.133	86.372	47.085	1.00	0.00	C
ATOM	569	CG	PHE A 738	83.915	85.130	47.877	1.00	0.00	C
ATOM	570	CD1	PHE A 738	82.649	84.753	48.259	1.00	0.00	C
ATOM	571	CD2	PHE A 738	84.981	84.339	48.233	1.00	0.00	C
ATOM	572	CE1	PHE A 738	82.452	83.603	48.988	1.00	0.00	C
ATOM	573	CE2	PHE A 738	84.790	83.187	48.961	1.00	0.00	C
ATOM	574	CZ	PHE A 738	83.523	82.819	49.342	1.00	0.00	C
ATOM	575	N	SER A 739	86.446	87.500	48.707	1.00	0.00	N
ATOM	576	CA	SER A 739	87.538	87.229	49.598	1.00	0.00	C
ATOM	577	C	SER A 739	87.427	88.151	50.768	1.00	0.00	C
ATOM	578	O	SER A 739	87.692	87.765	51.906	1.00	0.00	O
ATOM	579	CB	SER A 739	88.912	87.478	48.948	1.00	0.00	C
ATOM	580	OG	SER A 739	89.060	88.851	48.612	1.00	0.00	O
ATOM	581	N	TRP A 740	87.026	89.405	50.511	1.00	0.00	N
ATOM	582	CA	TRP A 740	86.918	90.369	51.559	1.00	0.00	C
ATOM	583	C	TRP A 740	85.854	89.934	52.512	1.00	0.00	C
ATOM	584	O	TRP A 740	86.028	90.000	53.727	1.00	0.00	O
ATOM	585	CB	TRP A 740	86.564	91.770	51.035	1.00	0.00	C
ATOM	586	CG	TRP A 740	86.481	92.821	52.111	1.00	0.00	C
ATOM	587	CD1	TRP A 740	85.389	93.359	52.726	1.00	0.00	C
ATOM	588	CD2	TRP A 740	87.631	93.435	52.712	1.00	0.00	C
ATOM	589	CE2	TRP A 740	87.166	94.335	53.669	1.00	0.00	C
ATOM	590	CE3	TRP A 740	88.964	93.261	52.480	1.00	0.00	C
ATOM	591	NE1	TRP A 740	85.787	94.279	53.666	1.00	0.00	N
ATOM	592	CZ2	TRP A 740	88.033	95.076	54.420	1.00	0.00	C
ATOM	593	CZ3	TRP A 740	89.838	94.012	53.235	1.00	0.00	C
ATOM	594	CH2	TRP A 740	89.381	94.902	54.184	1.00	0.00	C
ATOM	595	N	ASN A 741	84.716	89.458	51.974	1.00	0.00	N
ATOM	596	CA	ASN A 741	83.613	89.085	52.811	1.00	0.00	C
ATOM	597	C	ASN A 741	84.033	87.972	53.713	1.00	0.00	C
ATOM	598	O	ASN A 741	83.752	88.008	54.910	1.00	0.00	O
ATOM	599	CB	ASN A 741	82.397	88.597	52.007	1.00	0.00	C
ATOM	600	CG	ASN A 741	81.811	89.792	51.265	1.00	0.00	C
ATOM	601	ND2	ASN A 741	81.360	89.559	50.004	1.00	0.00	N
ATOM	602	OD1	ASN A 741	81.760	90.905	51.791	1.00	0.00	O
ATOM	603	N	VAL A 742	84.730	86.952	53.178	1.00	0.00	N
ATOM	604	CA	VAL A 742	85.094	85.849	54.018	1.00	0.00	C
ATOM	605	C	VAL A 742	86.021	86.332	55.090	1.00	0.00	C
ATOM	606	O	VAL A 742	85.866	85.969	56.255	1.00	0.00	O
ATOM	607	CB	VAL A 742	85.754	84.714	53.285	1.00	0.00	C
ATOM	608	CG1	VAL A 742	84.745	84.138	52.276	1.00	0.00	C
ATOM	609	CG2	VAL A 742	87.063	85.204	52.647	1.00	0.00	C

ATOM	610	N	VAL A 743	87.002	87.179	54.734	1.00	0.00	N
ATOM	611	CA	VAL A 743	87.950	87.631	55.711	1.00	0.00	C
ATOM	612	C	VAL A 743	87.230	88.405	56.771	1.00	0.00	C
ATOM	613	O	VAL A 743	87.465	88.212	57.963	1.00	0.00	O
ATOM	614	CB	VAL A 743	88.995	88.537	55.134	1.00	0.00	C
ATOM	615	CG1	VAL A 743	89.896	89.028	56.279	1.00	0.00	C
ATOM	616	CG2	VAL A 743	89.752	87.779	54.028	1.00	0.00	C
ATOM	617	N	PHE A 744	86.318	89.299	56.361	1.00	0.00	N
ATOM	618	CA	PHE A 744	85.614	90.150	57.280	1.00	0.00	C
ATOM	619	C	PHE A 744	84.766	89.313	58.176	1.00	0.00	C
ATOM	620	O	PHE A 744	84.724	89.528	59.386	1.00	0.00	O
ATOM	621	CB	PHE A 744	84.677	91.131	56.553	1.00	0.00	C
ATOM	622	CG	PHE A 744	84.060	92.041	57.559	1.00	0.00	C
ATOM	623	CD1	PHE A 744	84.700	93.201	57.927	1.00	0.00	C
ATOM	624	CD2	PHE A 744	82.848	91.739	58.134	1.00	0.00	C
ATOM	625	CE1	PHE A 744	84.139	94.050	58.852	1.00	0.00	C
ATOM	626	CE2	PHE A 744	82.281	92.584	59.061	1.00	0.00	C
ATOM	627	CZ	PHE A 744	82.925	93.744	59.420	1.00	0.00	C
ATOM	628	N	TYR A 745	84.068	88.317	57.601	1.00	0.00	N
ATOM	629	CA	TYR A 745	83.145	87.556	58.378	1.00	0.00	C
ATOM	630	C	TYR A 745	83.898	86.807	59.426	1.00	0.00	C
ATOM	631	O	TYR A 745	83.444	86.702	60.563	1.00	0.00	O
ATOM	632	CB	TYR A 745	82.329	86.541	57.565	1.00	0.00	C
ATOM	633	CG	TYR A 745	81.170	86.212	58.435	1.00	0.00	C
ATOM	634	CD1	TYR A 745	81.276	85.314	59.468	1.00	0.00	C
ATOM	635	CD2	TYR A 745	79.961	86.831	58.216	1.00	0.00	C
ATOM	636	CE1	TYR A 745	80.186	85.034	60.263	1.00	0.00	C
ATOM	637	CE2	TYR A 745	78.871	86.559	59.006	1.00	0.00	C
ATOM	638	CZ	TYR A 745	78.985	85.653	60.034	1.00	0.00	C
ATOM	639	OH	TYR A 745	77.869	85.369	60.846	1.00	0.00	O
ATOM	640	N	ILE A 746	85.071	86.252	59.069	1.00	0.00	N
ATOM	641	CA	ILE A 746	85.813	85.490	60.028	1.00	0.00	C
ATOM	642	C	ILE A 746	86.214	86.410	61.132	1.00	0.00	C
ATOM	643	O	ILE A 746	86.096	86.072	62.304	1.00	0.00	O
ATOM	644	CB	ILE A 746	87.037	84.821	59.458	1.00	0.00	C
ATOM	645	CG1	ILE A 746	88.163	85.792	59.054	1.00	0.00	C
ATOM	646	CG2	ILE A 746	86.539	83.995	58.269	1.00	0.00	C
ATOM	647	CD1	ILE A 746	89.051	86.248	60.212	1.00	0.00	C
ATOM	648	N	ALA A 747	86.663	87.629	60.784	1.00	0.00	N
ATOM	649	CA	ALA A 747	87.127	88.544	61.782	1.00	0.00	C
ATOM	650	C	ALA A 747	85.985	88.824	62.699	1.00	0.00	C
ATOM	651	O	ALA A 747	86.150	88.891	63.915	1.00	0.00	O
ATOM	652	CB	ALA A 747	87.590	89.888	61.194	1.00	0.00	C
ATOM	653	N	PHE A 748	84.784	88.975	62.121	1.00	0.00	N

ATOM	654	CA	PHE A 748	83.612	89.281	62.881	1.00	0.00	C
ATOM	655	C	PHE A 748	83.366	88.148	63.827	1.00	0.00	C
ATOM	656	O	PHE A 748	83.042	88.362	64.993	1.00	0.00	O
ATOM	657	CB	PHE A 748	82.371	89.443	61.984	1.00	0.00	C
ATOM	658	CG	PHE A 748	81.199	89.756	62.845	1.00	0.00	C
ATOM	659	CD1	PHE A 748	80.964	91.045	63.267	1.00	0.00	C
ATOM	660	CD2	PHE A 748	80.325	88.761	63.220	1.00	0.00	C
ATOM	661	CE1	PHE A 748	79.877	91.334	64.060	1.00	0.00	C
ATOM	662	CE2	PHE A 748	79.238	89.046	64.011	1.00	0.00	C
ATOM	663	CZ	PHE A 748	79.012	90.333	64.432	1.00	0.00	C
ATOM	664	N	LEU A 749	83.530	86.903	63.340	1.00	0.00	N
ATOM	665	CA	LEU A 749	83.254	85.746	64.141	1.00	0.00	C
ATOM	666	C	LEU A 749	84.184	85.704	65.315	1.00	0.00	C
ATOM	667	O	LEU A 749	83.763	85.438	66.440	1.00	0.00	O
ATOM	668	CB	LEU A 749	83.412	84.435	63.355	1.00	0.00	C
ATOM	669	CG	LEU A 749	83.055	83.192	64.185	1.00	0.00	C
ATOM	670	CD1	LEU A 749	81.596	83.261	64.651	1.00	0.00	C
ATOM	671	CD2	LEU A 749	83.360	81.893	63.427	1.00	0.00	C
ATOM	672	N	LEU A 750	85.479	85.981	65.086	1.00	0.00	N
ATOM	673	CA	LEU A 750	86.458	85.930	66.133	1.00	0.00	C
ATOM	674	C	LEU A 750	86.152	86.970	67.169	1.00	0.00	C
ATOM	675	O	LEU A 750	86.230	86.697	68.364	1.00	0.00	O
ATOM	676	CB	LEU A 750	87.879	86.162	65.593	1.00	0.00	C
ATOM	677	CG	LEU A 750	88.468	84.929	64.878	1.00	0.00	C
ATOM	678	CD1	LEU A 750	87.500	84.315	63.860	1.00	0.00	C
ATOM	679	CD2	LEU A 750	89.803	85.288	64.215	1.00	0.00	C
ATOM	680	N	LEU A 751	85.775	88.187	66.737	1.00	0.00	N
ATOM	681	CA	LEU A 751	85.496	89.244	67.665	1.00	0.00	C
ATOM	682	C	LEU A 751	84.315	88.841	68.490	1.00	0.00	C
ATOM	683	O	LEU A 751	84.255	89.114	69.687	1.00	0.00	O
ATOM	684	CB	LEU A 751	85.131	90.573	66.975	1.00	0.00	C
ATOM	685	CG	LEU A 751	86.285	91.189	66.165	1.00	0.00	C
ATOM	686	CD1	LEU A 751	85.863	92.515	65.511	1.00	0.00	C
ATOM	687	CD2	LEU A 751	87.560	91.324	67.018	1.00	0.00	C
ATOM	688	N	PHE A 752	83.349	88.166	67.849	1.00	0.00	N
ATOM	689	CA	PHE A 752	82.128	87.741	68.464	1.00	0.00	C
ATOM	690	C	PHE A 752	82.458	86.786	69.573	1.00	0.00	C
ATOM	691	O	PHE A 752	81.915	86.888	70.670	1.00	0.00	O
ATOM	692	CB	PHE A 752	81.247	87.012	67.432	1.00	0.00	C
ATOM	693	CG	PHE A 752	79.900	86.707	67.990	1.00	0.00	C
ATOM	694	CD1	PHE A 752	78.915	87.667	67.991	1.00	0.00	C
ATOM	695	CD2	PHE A 752	79.617	85.458	68.491	1.00	0.00	C
ATOM	696	CE1	PHE A 752	77.669	87.392	68.497	1.00	0.00	C
ATOM	697	CE2	PHE A 752	78.369	85.175	68.999	1.00	0.00	C

ATOM	698	CZ	PHE	A	752	77.392	86.142	68.999	1.00	0.00	C
ATOM	699	N	ALA	A	753	83.364	85.827	69.303	1.00	0.00	N
ATOM	700	CA	ALA	A	753	83.750	84.845	70.274	1.00	0.00	C
ATOM	701	C	ALA	A	753	84.426	85.533	71.418	1.00	0.00	C
ATOM	702	O	ALA	A	753	84.207	85.193	72.578	1.00	0.00	O
ATOM	703	CB	ALA	A	753	84.730	83.799	69.709	1.00	0.00	C
ATOM	704	N	TYR	A	754	85.260	86.541	71.106	1.00	0.00	N
ATOM	705	CA	TYR	A	754	86.001	87.257	72.105	1.00	0.00	C
ATOM	706	C	TYR	A	754	85.015	87.883	73.025	1.00	0.00	C
ATOM	707	O	TYR	A	754	85.185	87.863	74.245	1.00	0.00	O
ATOM	708	CB	TYR	A	754	86.856	88.386	71.497	1.00	0.00	C
ATOM	709	CG	TYR	A	754	87.534	89.127	72.600	1.00	0.00	C
ATOM	710	CD1	TYR	A	754	88.645	88.604	73.218	1.00	0.00	C
ATOM	711	CD2	TYR	A	754	87.067	90.357	73.006	1.00	0.00	C
ATOM	712	CE1	TYR	A	754	89.273	89.289	74.231	1.00	0.00	C
ATOM	713	CE2	TYR	A	754	87.691	91.049	74.019	1.00	0.00	C
ATOM	714	CZ	TYR	A	754	88.796	90.513	74.632	1.00	0.00	C
ATOM	715	OH	TYR	A	754	89.438	91.219	75.673	1.00	0.00	O
ATOM	716	N	VAL	A	755	83.941	88.454	72.453	1.00	0.00	N
ATOM	717	CA	VAL	A	755	82.930	89.103	73.224	1.00	0.00	C
ATOM	718	C	VAL	A	755	82.299	88.089	74.120	1.00	0.00	C
ATOM	719	O	VAL	A	755	81.941	88.395	75.256	1.00	0.00	O
ATOM	720	CB	VAL	A	755	81.843	89.690	72.377	1.00	0.00	C
ATOM	721	CG1	VAL	A	755	80.782	90.290	73.312	1.00	0.00	C
ATOM	722	CG2	VAL	A	755	82.471	90.700	71.404	1.00	0.00	C
ATOM	723	N	LEU	A	756	82.145	86.842	73.635	1.00	0.00	N
ATOM	724	CA	LEU	A	756	81.492	85.826	74.409	1.00	0.00	C
ATOM	725	C	LEU	A	756	82.222	85.653	75.701	1.00	0.00	C
ATOM	726	O	LEU	A	756	81.612	85.648	76.768	1.00	0.00	O
ATOM	727	CB	LEU	A	756	81.545	84.443	73.729	1.00	0.00	C
ATOM	728	CG	LEU	A	756	80.650	84.294	72.485	1.00	0.00	C
ATOM	729	CD1	LEU	A	756	80.796	82.903	71.849	1.00	0.00	C
ATOM	730	CD2	LEU	A	756	79.193	84.595	72.843	1.00	0.00	C
ATOM	731	N	LEU	A	757	83.555	85.512	75.631	1.00	0.00	N
ATOM	732	CA	LEU	A	757	84.339	85.297	76.811	1.00	0.00	C
ATOM	733	C	LEU	A	757	84.290	86.552	77.639	1.00	0.00	C
ATOM	734	O	LEU	A	757	84.188	86.511	78.862	1.00	0.00	O
ATOM	735	CB	LEU	A	757	85.812	85.003	76.458	1.00	0.00	C
ATOM	736	CG	LEU	A	757	86.702	84.466	77.602	1.00	0.00	C
ATOM	737	CD1	LEU	A	757	88.132	84.218	77.102	1.00	0.00	C
ATOM	738	CD2	LEU	A	757	86.672	85.347	78.860	1.00	0.00	C
ATOM	739	N	MET	A	758	84.347	87.698	76.940	1.00	0.00	N
ATOM	740	CA	MET	A	758	84.440	89.047	77.419	1.00	0.00	C
ATOM	741	C	MET	A	758	83.199	89.503	78.141	1.00	0.00	C

ATOM	742	O	MET A 758	83.276	90.403	78.978	1.00	0.00	O
ATOM	743	CB	MET A 758	84.679	90.021	76.255	1.00	0.00	C
ATOM	744	CG	MET A 758	84.957	91.460	76.678	1.00	0.00	C
ATOM	745	SD	MET A 758	85.241	92.602	75.289	1.00	0.00	S
ATOM	746	CE	MET A 758	85.495	94.064	76.336	1.00	0.00	C
ATOM	747	N	ASP A 759	82.035	88.908	77.826	1.00	0.00	N
ATOM	748	CA	ASP A 759	80.732	89.359	78.256	1.00	0.00	C
ATOM	749	C	ASP A 759	80.696	89.814	79.686	1.00	0.00	C
ATOM	750	O	ASP A 759	81.324	89.233	80.573	1.00	0.00	O
ATOM	751	CB	ASP A 759	79.649	88.274	78.084	1.00	0.00	C
ATOM	752	CG	ASP A 759	78.271	88.915	78.169	1.00	0.00	C
ATOM	753	OD1	ASP A 759	78.192	90.173	78.130	1.00	0.00	O
ATOM	754	OD2	ASP A 759	77.273	88.151	78.267	1.00	0.00	O
ATOM	755	N	PHE A 760	79.955	90.922	79.916	1.00	0.00	N
ATOM	756	CA	PHE A 760	79.779	91.527	81.206	1.00	0.00	C
ATOM	757	C	PHE A 760	78.299	91.679	81.403	1.00	0.00	C
ATOM	758	O	PHE A 760	77.539	91.709	80.438	1.00	0.00	O
ATOM	759	CB	PHE A 760	80.437	92.917	81.292	1.00	0.00	C
ATOM	760	CG	PHE A 760	80.391	93.393	82.703	1.00	0.00	C
ATOM	761	CD1	PHE A 760	81.290	92.923	83.631	1.00	0.00	C
ATOM	762	CD2	PHE A 760	79.458	94.323	83.100	1.00	0.00	C
ATOM	763	CE1	PHE A 760	81.250	93.362	84.934	1.00	0.00	C
ATOM	764	CE2	PHE A 760	79.411	94.768	84.397	1.00	0.00	C
ATOM	765	CZ	PHE A 760	80.309	94.288	85.321	1.00	0.00	C
HETATM	766	N	HIE A 761	77.842	91.758	82.671	1.00	0.00	N
HETATM	767	CA	HIE A 761	76.434	91.852	82.945	1.00	0.00	C
HETATM	768	C	HIE A 761	75.967	93.242	82.669	1.00	0.00	C
HETATM	769	O	HIE A 761	76.750	94.189	82.718	1.00	0.00	O
HETATM	770	CB	HIE A 761	76.057	91.518	84.400	1.00	0.00	C
HETATM	771	CG	HIE A 761	74.572	91.468	84.614	1.00	0.00	C
HETATM	772	CD2	HIE A 761	73.717	90.411	84.572	1.00	0.00	C
HETATM	773	ND1	HIE A 761	73.791	92.567	84.895	1.00	0.00	N
HETATM	774	CE1	HIE A 761	72.515	92.124	85.003	1.00	0.00	C
HETATM	775	NE2	HIE A 761	72.420	90.821	84.816	1.00	0.00	N
ATOM	776	N	SER A 762	74.674	93.389	82.314	1.00	0.00	N
ATOM	777	CA	SER A 762	74.114	94.692	82.103	1.00	0.00	C
ATOM	778	C	SER A 762	74.498	95.156	80.740	1.00	0.00	C
ATOM	779	O	SER A 762	74.605	94.369	79.804	1.00	0.00	O
ATOM	780	CB	SER A 762	74.554	95.767	83.114	1.00	0.00	C
ATOM	781	OG	SER A 762	74.089	95.438	84.413	1.00	0.00	O
ATOM	782	N	VAL A 763	74.687	96.483	80.609	1.00	0.00	N
ATOM	783	CA	VAL A 763	75.026	97.066	79.347	1.00	0.00	C
ATOM	784	C	VAL A 763	76.372	96.564	78.934	1.00	0.00	C
ATOM	785	O	VAL A 763	77.302	96.436	79.731	1.00	0.00	O

ATOM	786	CB VAL A 763	75.086	98.565	79.377	1.00	0.00	C
ATOM	787	CG1 VAL A 763	76.188	98.990	80.359	1.00	0.00	C
ATOM	788	CG2 VAL A 763	75.303	99.076	77.943	1.00	0.00	C
ATOM	789	N PRO A 764	76.431	96.244	77.670	1.00	0.00	N
ATOM	790	CA PRO A 764	77.654	95.755	77.083	1.00	0.00	C
ATOM	791	C PRO A 764	78.612	96.854	76.766	1.00	0.00	C
ATOM	792	O PRO A 764	78.222	98.020	76.783	1.00	0.00	O
ATOM	793	CB PRO A 764	77.240	94.976	75.835	1.00	0.00	C
ATOM	794	CG PRO A 764	75.808	94.519	76.142	1.00	0.00	C
ATOM	795	CD PRO A 764	75.263	95.607	77.078	1.00	0.00	C
HETATM	796	N HIE A 765	79.875	96.488	76.472	1.00	0.00	N
HETATM	797	CA HIE A 765	80.885	97.446	76.134	1.00	0.00	C
HETATM	798	C HIE A 765	80.598	97.868	74.724	1.00	0.00	C
HETATM	799	O HIE A 765	79.836	97.214	74.012	1.00	0.00	O
HETATM	800	CB HIE A 765	82.311	96.867	76.226	1.00	0.00	C
HETATM	801	CG HIE A 765	83.368	97.913	76.439	1.00	0.00	C
HETATM	802	CD2 HIE A 765	84.316	98.413	75.604	1.00	0.00	C
HETATM	803	ND1 HIE A 765	83.543	98.568	77.638	1.00	0.00	N
HETATM	804	CE1 HIE A 765	84.580	99.426	77.469	1.00	0.00	C
HETATM	805	NE2 HIE A 765	85.083	99.367	76.249	1.00	0.00	N
ATOM	806	N PRO A 766	81.154	98.972	74.303	1.00	0.00	N
ATOM	807	CA PRO A 766	80.858	99.477	72.991	1.00	0.00	C
ATOM	808	C PRO A 766	81.235	98.579	71.856	1.00	0.00	C
ATOM	809	O PRO A 766	80.571	98.670	70.825	1.00	0.00	O
ATOM	810	CB PRO A 766	81.486	100.867	72.940	1.00	0.00	C
ATOM	811	CG PRO A 766	81.432	101.335	74.406	1.00	0.00	C
ATOM	812	CD PRO A 766	81.504	100.037	75.229	1.00	0.00	C
ATOM	813	N PRO A 767	82.244	97.762	71.953	1.00	0.00	N
ATOM	814	CA PRO A 767	82.537	96.905	70.839	1.00	0.00	C
ATOM	815	C PRO A 767	81.445	95.915	70.624	1.00	0.00	C
ATOM	816	O PRO A 767	81.221	95.513	69.482	1.00	0.00	O
ATOM	817	CB PRO A 767	83.909	96.306	71.134	1.00	0.00	C
ATOM	818	CG PRO A 767	84.598	97.404	71.966	1.00	0.00	C
ATOM	819	CD PRO A 767	83.445	98.134	72.678	1.00	0.00	C
ATOM	820	N GLU A 768	80.767	95.496	71.708	1.00	0.00	N
ATOM	821	CA GLU A 768	79.684	94.568	71.581	1.00	0.00	C
ATOM	822	C GLU A 768	78.594	95.254	70.831	1.00	0.00	C
ATOM	823	O GLU A 768	77.941	94.659	69.977	1.00	0.00	O
ATOM	824	CB GLU A 768	79.111	94.128	72.940	1.00	0.00	C
ATOM	825	CG GLU A 768	77.942	93.148	72.822	1.00	0.00	C
ATOM	826	CD GLU A 768	78.476	91.827	72.299	1.00	0.00	C
ATOM	827	OE1 GLU A 768	79.271	91.859	71.319	1.00	0.00	O
ATOM	828	OE2 GLU A 768	78.105	90.765	72.872	1.00	0.00	O
ATOM	829	N LEU A 769	78.382	96.547	71.133	1.00	0.00	N

ATOM	830	CA	LEU	A	769	77.352	97.297	70.477	1.00	0.00	C
ATOM	831	C	LEU	A	769	77.683	97.349	69.032	1.00	0.00	C
ATOM	832	O	LEU	A	769	76.807	97.240	68.176	1.00	0.00	O
ATOM	833	CB	LEU	A	769	77.233	98.743	70.981	1.00	0.00	C
ATOM	834	CG	LEU	A	769	76.680	98.811	72.410	1.00	0.00	C
ATOM	835	CD1	LEU	A	769	76.512	100.257	72.894	1.00	0.00	C
ATOM	836	CD2	LEU	A	769	75.391	97.981	72.509	1.00	0.00	C
ATOM	837	N	VAL	A	770	78.980	97.499	68.721	1.00	0.00	N
ATOM	838	CA	VAL	A	770	79.376	97.572	67.351	1.00	0.00	C
ATOM	839	C	VAL	A	770	78.968	96.296	66.700	1.00	0.00	C
ATOM	840	O	VAL	A	770	78.451	96.296	65.584	1.00	0.00	O
ATOM	841	CB	VAL	A	770	80.858	97.714	67.174	1.00	0.00	C
ATOM	842	CG1	VAL	A	770	81.168	97.700	65.667	1.00	0.00	C
ATOM	843	CG2	VAL	A	770	81.320	98.988	67.897	1.00	0.00	C
ATOM	844	N	LEU	A	771	79.156	95.165	67.400	1.00	0.00	N
ATOM	845	CA	LEU	A	771	78.835	93.888	66.836	1.00	0.00	C
ATOM	846	C	LEU	A	771	77.374	93.867	66.533	1.00	0.00	C
ATOM	847	O	LEU	A	771	76.952	93.313	65.519	1.00	0.00	O
ATOM	848	CB	LEU	A	771	79.138	92.716	67.782	1.00	0.00	C
ATOM	849	CG	LEU	A	771	80.638	92.571	68.095	1.00	0.00	C
ATOM	850	CD1	LEU	A	771	80.913	91.332	68.964	1.00	0.00	C
ATOM	851	CD2	LEU	A	771	81.481	92.587	66.808	1.00	0.00	C
ATOM	852	N	TYR	A	772	76.555	94.481	67.408	1.00	0.00	N
ATOM	853	CA	TYR	A	772	75.144	94.484	67.168	1.00	0.00	C
ATOM	854	C	TYR	A	772	74.914	95.170	65.864	1.00	0.00	C
ATOM	855	O	TYR	A	772	74.104	94.729	65.051	1.00	0.00	O
ATOM	856	CB	TYR	A	772	74.341	95.231	68.246	1.00	0.00	C
ATOM	857	CG	TYR	A	772	74.395	94.406	69.488	1.00	0.00	C
ATOM	858	CD1	TYR	A	772	73.575	93.310	69.619	1.00	0.00	C
ATOM	859	CD2	TYR	A	772	75.249	94.730	70.515	1.00	0.00	C
ATOM	860	CE1	TYR	A	772	73.612	92.543	70.758	1.00	0.00	C
ATOM	861	CE2	TYR	A	772	75.289	93.964	71.655	1.00	0.00	C
ATOM	862	CZ	TYR	A	772	74.471	92.867	71.777	1.00	0.00	C
ATOM	863	OH	TYR	A	772	74.507	92.079	72.947	1.00	0.00	O
ATOM	864	N	SER	A	773	75.651	96.266	65.629	1.00	0.00	N
ATOM	865	CA	SER	A	773	75.518	97.024	64.423	1.00	0.00	C
ATOM	866	C	SER	A	773	75.815	96.130	63.257	1.00	0.00	C
ATOM	867	O	SER	A	773	75.092	96.142	62.262	1.00	0.00	O
ATOM	868	CB	SER	A	773	76.522	98.184	64.387	1.00	0.00	C
ATOM	869	OG	SER	A	773	76.522	98.783	63.103	1.00	0.00	O
ATOM	870	N	LEU	A	774	76.883	95.314	63.357	1.00	0.00	N
ATOM	871	CA	LEU	A	774	77.242	94.442	62.276	1.00	0.00	C
ATOM	872	C	LEU	A	774	76.139	93.459	62.050	1.00	0.00	C
ATOM	873	O	LEU	A	774	75.833	93.110	60.912	1.00	0.00	O

ATOM	874	CB	LEU	A	774	78.541	93.647	62.513	1.00	0.00	C
ATOM	875	CG	LEU	A	774	79.833	94.477	62.358	1.00	0.00	C
ATOM	876	CD1	LEU	A	774	80.032	94.926	60.902	1.00	0.00	C
ATOM	877	CD2	LEU	A	774	79.885	95.653	63.342	1.00	0.00	C
ATOM	878	N	VAL	A	775	75.500	92.985	63.130	1.00	0.00	N
ATOM	879	CA	VAL	A	775	74.432	92.041	62.969	1.00	0.00	C
ATOM	880	C	VAL	A	775	73.377	92.713	62.155	1.00	0.00	C
ATOM	881	O	VAL	A	775	72.760	92.095	61.285	1.00	0.00	O
ATOM	882	CB	VAL	A	775	73.818	91.652	64.283	1.00	0.00	C
ATOM	883	CG1	VAL	A	775	72.605	90.752	64.009	1.00	0.00	C
ATOM	884	CG2	VAL	A	775	74.903	90.989	65.152	1.00	0.00	C
ATOM	885	N	PHE	A	776	73.156	94.011	62.417	1.00	0.00	N
ATOM	886	CA	PHE	A	776	72.163	94.771	61.721	1.00	0.00	C
ATOM	887	C	PHE	A	776	72.495	94.813	60.264	1.00	0.00	C
ATOM	888	O	PHE	A	776	71.618	94.617	59.425	1.00	0.00	O
ATOM	889	CB	PHE	A	776	72.089	96.230	62.206	1.00	0.00	C
ATOM	890	CG	PHE	A	776	71.225	96.985	61.254	1.00	0.00	C
ATOM	891	CD1	PHE	A	776	69.854	96.893	61.310	1.00	0.00	C
ATOM	892	CD2	PHE	A	776	71.796	97.799	60.302	1.00	0.00	C
ATOM	893	CE1	PHE	A	776	69.069	97.596	60.428	1.00	0.00	C
ATOM	894	CE2	PHE	A	776	71.017	98.505	59.413	1.00	0.00	C
ATOM	895	CZ	PHE	A	776	69.649	98.402	59.477	1.00	0.00	C
ATOM	896	N	VAL	A	777	73.771	95.055	59.914	1.00	0.00	N
ATOM	897	CA	VAL	A	777	74.092	95.166	58.518	1.00	0.00	C
ATOM	898	C	VAL	A	777	73.801	93.862	57.852	1.00	0.00	C
ATOM	899	O	VAL	A	777	73.277	93.821	56.739	1.00	0.00	O
ATOM	900	CB	VAL	A	777	75.520	95.542	58.236	1.00	0.00	C
ATOM	901	CG1	VAL	A	777	76.443	94.354	58.552	1.00	0.00	C
ATOM	902	CG2	VAL	A	777	75.611	96.016	56.776	1.00	0.00	C
ATOM	903	N	LEU	A	778	74.120	92.740	58.523	1.00	0.00	N
ATOM	904	CA	LEU	A	778	73.898	91.451	57.941	1.00	0.00	C
ATOM	905	C	LEU	A	778	72.427	91.282	57.744	1.00	0.00	C
ATOM	906	O	LEU	A	778	71.981	90.740	56.733	1.00	0.00	O
ATOM	907	CB	LEU	A	778	74.379	90.313	58.855	1.00	0.00	C
ATOM	908	CG	LEU	A	778	75.883	90.390	59.181	1.00	0.00	C
ATOM	909	CD1	LEU	A	778	76.330	89.213	60.059	1.00	0.00	C
ATOM	910	CD2	LEU	A	778	76.725	90.545	57.905	1.00	0.00	C
ATOM	911	N	PHE	A	779	71.630	91.755	58.717	1.00	0.00	N
ATOM	912	CA	PHE	A	779	70.207	91.605	58.663	1.00	0.00	C
ATOM	913	C	PHE	A	779	69.669	92.310	57.460	1.00	0.00	C
ATOM	914	O	PHE	A	779	68.880	91.744	56.704	1.00	0.00	O
ATOM	915	CB	PHE	A	779	69.499	92.199	59.890	1.00	0.00	C
ATOM	916	CG	PHE	A	779	68.041	91.981	59.688	1.00	0.00	C
ATOM	917	CD1	PHE	A	779	67.467	90.772	60.002	1.00	0.00	C

ATOM	918	CD2 PHE A 779	67.253	92.990	59.187	1.00	0.00	C
ATOM	919	CE1 PHE A 779	66.123	90.574	59.813	1.00	0.00	C
ATOM	920	CE2 PHE A 779	65.908	92.798	58.996	1.00	0.00	C
ATOM	921	CZ PHE A 779	65.340	91.587	59.311	1.00	0.00	C
ATOM	922	N CYS A 780	70.088	93.569	57.237	1.00	0.00	N
ATOM	923	CA CYS A 780	69.535	94.302	56.134	1.00	0.00	C
ATOM	924	C CYS A 780	69.918	93.638	54.847	1.00	0.00	C
ATOM	925	O CYS A 780	69.117	93.551	53.923	1.00	0.00	O
ATOM	926	CB CYS A 780	69.975	95.780	56.077	1.00	0.00	C
ATOM	927	SG CYS A 780	71.741	96.016	55.727	1.00	0.00	S
ATOM	928	N ASP A 781	71.163	93.140	54.750	1.00	0.00	N
ATOM	929	CA ASP A 781	71.591	92.529	53.524	1.00	0.00	C
ATOM	930	C ASP A 781	70.758	91.319	53.259	1.00	0.00	C
ATOM	931	O ASP A 781	70.266	91.123	52.146	1.00	0.00	O
ATOM	932	CB ASP A 781	73.057	92.061	53.580	1.00	0.00	C
ATOM	933	CG ASP A 781	73.460	91.517	52.214	1.00	0.00	C
ATOM	934	OD1 ASP A 781	72.626	91.595	51.269	1.00	0.00	O
ATOM	935	OD2 ASP A 781	74.607	91.010	52.097	1.00	0.00	O
HETATM	936	N GUI A 782	70.574	90.471	54.306	1.00	0.00	N
HETATM	937	CA GUI A 782	69.835	89.237	54.056	1.00	0.00	C
HETATM	938	C GUI A 782	68.399	89.530	53.693	1.00	0.00	C
HETATM	939	O GUI A 782	67.859	88.839	52.871	1.00	0.00	O
HETATM	940	CB GUI A 782	69.903	88.319	55.310	1.00	0.00	C
HETATM	941	CG GUI A 782	71.298	87.682	55.609	1.00	0.00	C
HETATM	942	CD GUI A 782	72.228	87.400	54.444	1.00	0.00	C
HETATM	943	OE1 GUI A 782	73.265	88.069	54.275	1.00	0.00	O
HETATM	944	OE2 GUI A 782	71.901	86.464	53.685	1.00	0.00	OI-
ATOM	945	N VAL A 783	67.816	90.547	54.339	1.00	0.00	N
ATOM	946	CA VAL A 783	66.451	90.842	54.019	1.00	0.00	C
ATOM	947	C VAL A 783	66.370	91.274	52.591	1.00	0.00	C
ATOM	948	O VAL A 783	65.404	90.954	51.896	1.00	0.00	O
ATOM	949	CB VAL A 783	65.800	91.850	54.927	1.00	0.00	C
ATOM	950	CG1 VAL A 783	65.674	91.199	56.311	1.00	0.00	C
ATOM	951	CG2 VAL A 783	66.613	93.152	54.956	1.00	0.00	C
ATOM	952	N ARG A 784	67.382	92.013	52.102	1.00	0.00	N
ATOM	953	CA ARG A 784	67.349	92.437	50.734	1.00	0.00	C
ATOM	954	C ARG A 784	67.353	91.225	49.855	1.00	0.00	C
ATOM	955	O ARG A 784	66.610	91.155	48.879	1.00	0.00	O
ATOM	956	CB ARG A 784	68.552	93.298	50.320	1.00	0.00	C
ATOM	957	CG ARG A 784	68.533	93.640	48.831	1.00	0.00	C
ATOM	958	CD ARG A 784	67.335	94.498	48.422	1.00	0.00	C
ATOM	959	NE ARG A 784	67.286	94.523	46.931	1.00	0.00	N
ATOM	960	CZ ARG A 784	66.290	95.203	46.294	1.00	0.00	C
ATOM	961	NH1 ARG A 784	65.377	95.908	47.020	1.00	0.00	N

ATOM	962	NH2 ARG A 784	66.209	95.177	44.933	1.00	0.00	N
HETATM	963	N GN1 A 785	68.188	90.230	50.199	1.00	0.00	N
HETATM	964	CA GN1 A 785	68.313	89.022	49.432	1.00	0.00	C
HETATM	965	C GN1 A 785	66.996	88.320	49.481	1.00	0.00	C
HETATM	966	O GN1 A 785	66.543	87.738	48.497	1.00	0.00	O
HETATM	967	CB GN1 A 785	69.375	88.076	50.026	1.00	0.00	C
HETATM	968	CG GN1 A 785	69.531	86.750	49.283	1.00	0.00	C
HETATM	969	CD GN1 A 785	70.836	86.118	49.748	1.00	0.00	C
HETATM	970	NE2 GN1 A 785	71.953	86.439	49.042	1.00	0.00	N
HETATM	971	OE1 GN1 A 785	70.863	85.359	50.717	1.00	0.00	O
ATOM	972	N TRP A 786	66.332	88.381	50.644	1.00	0.00	N
ATOM	973	CA TRP A 786	65.067	87.740	50.839	1.00	0.00	C
ATOM	974	C TRP A 786	64.127	88.331	49.840	1.00	0.00	C
ATOM	975	O TRP A 786	63.352	87.626	49.198	1.00	0.00	O
ATOM	976	CB TRP A 786	64.502	88.047	52.237	1.00	0.00	C
ATOM	977	CG TRP A 786	63.207	87.358	52.604	1.00	0.00	C
ATOM	978	CD1 TRP A 786	61.922	87.705	52.303	1.00	0.00	C
ATOM	979	CD2 TRP A 786	63.129	86.198	53.449	1.00	0.00	C
ATOM	980	CE2 TRP A 786	61.779	85.901	53.616	1.00	0.00	C
ATOM	981	CE3 TRP A 786	64.102	85.455	54.050	1.00	0.00	C
ATOM	982	NE1 TRP A 786	61.047	86.829	52.906	1.00	0.00	N
ATOM	983	CZ2 TRP A 786	61.380	84.850	54.392	1.00	0.00	C
ATOM	984	CZ3 TRP A 786	63.699	84.383	54.816	1.00	0.00	C
ATOM	985	CH2 TRP A 786	62.363	84.088	54.984	1.00	0.00	C
ATOM	986	N TYR A 787	64.187	89.665	49.684	1.00	0.00	N
ATOM	987	CA TYR A 787	63.310	90.366	48.795	1.00	0.00	C
ATOM	988	C TYR A 787	63.546	89.952	47.378	1.00	0.00	C
ATOM	989	O TYR A 787	62.593	89.766	46.622	1.00	0.00	O
ATOM	990	CB TYR A 787	63.483	91.894	48.855	1.00	0.00	C
ATOM	991	CG TYR A 787	62.616	92.468	47.785	1.00	0.00	C
ATOM	992	CD1 TYR A 787	61.255	92.571	47.962	1.00	0.00	C
ATOM	993	CD2 TYR A 787	63.169	92.910	46.605	1.00	0.00	C
ATOM	994	CE1 TYR A 787	60.459	93.101	46.971	1.00	0.00	C
ATOM	995	CE2 TYR A 787	62.378	93.441	45.611	1.00	0.00	C
ATOM	996	CZ TYR A 787	61.020	93.537	45.795	1.00	0.00	C
ATOM	997	OH TYR A 787	60.206	94.081	44.780	1.00	0.00	O
ATOM	998	N VAL A 788	64.817	89.786	46.969	1.00	0.00	N
ATOM	999	CA VAL A 788	65.078	89.554	45.579	1.00	0.00	C
ATOM	1000	C VAL A 788	64.390	88.311	45.099	1.00	0.00	C
ATOM	1001	O VAL A 788	63.739	88.340	44.058	1.00	0.00	O
ATOM	1002	CB VAL A 788	66.543	89.443	45.240	1.00	0.00	C
ATOM	1003	CG1 VAL A 788	67.236	90.747	45.670	1.00	0.00	C
ATOM	1004	CG2 VAL A 788	67.136	88.167	45.859	1.00	0.00	C
ATOM	1005	N ASN A 789	64.488	87.179	45.830	1.00	0.00	N

ATOM	1006	CA	ASN A 789	63.856	85.996	45.307	1.00	0.00	C
ATOM	1007	C	ASN A 789	62.786	85.565	46.254	1.00	0.00	C
ATOM	1008	O	ASN A 789	63.062	85.306	47.424	1.00	0.00	O
ATOM	1009	CB	ASN A 789	64.823	84.812	45.141	1.00	0.00	C
ATOM	1010	CG	ASN A 789	65.799	85.154	44.023	1.00	0.00	C
ATOM	1011	ND2	ASN A 789	67.117	84.942	44.282	1.00	0.00	N
ATOM	1012	OD1	ASN A 789	65.400	85.606	42.952	1.00	0.00	O
ATOM	1013	N	GLY A 790	61.519	85.527	45.790	1.00	0.00	N
ATOM	1014	CA	GLY A 790	60.493	85.093	46.690	1.00	0.00	C
ATOM	1015	C	GLY A 790	60.598	83.623	46.978	1.00	0.00	C
ATOM	1016	O	GLY A 790	60.762	83.229	48.130	1.00	0.00	O
ATOM	1017	N	VAL A 791	60.489	82.775	45.930	1.00	0.00	N
ATOM	1018	CA	VAL A 791	60.521	81.340	46.068	1.00	0.00	C
ATOM	1019	C	VAL A 791	61.908	80.810	46.224	1.00	0.00	C
ATOM	1020	O	VAL A 791	62.178	79.970	47.082	1.00	0.00	O
ATOM	1021	CB	VAL A 791	59.927	80.630	44.886	1.00	0.00	C
ATOM	1022	CG1	VAL A 791	60.124	79.115	45.080	1.00	0.00	C
ATOM	1023	CG2	VAL A 791	58.456	81.059	44.746	1.00	0.00	C
ATOM	1024	N	ASN A 792	62.829	81.321	45.389	1.00	0.00	N
ATOM	1025	CA	ASN A 792	64.152	80.788	45.289	1.00	0.00	C
ATOM	1026	C	ASN A 792	64.849	80.935	46.599	1.00	0.00	C
ATOM	1027	O	ASN A 792	65.620	80.070	47.005	1.00	0.00	O
ATOM	1028	CB	ASN A 792	65.003	81.492	44.217	1.00	0.00	C
ATOM	1029	CG	ASN A 792	66.206	80.607	43.924	1.00	0.00	C
ATOM	1030	ND2	ASN A 792	66.423	80.299	42.617	1.00	0.00	N
ATOM	1031	OD1	ASN A 792	66.926	80.188	44.829	1.00	0.00	O
ATOM	1032	N	TYR A 793	64.602	82.041	47.303	1.00	0.00	N
ATOM	1033	CA	TYR A 793	65.277	82.245	48.548	1.00	0.00	C
ATOM	1034	C	TYR A 793	64.866	81.142	49.478	1.00	0.00	C
ATOM	1035	O	TYR A 793	65.698	80.521	50.135	1.00	0.00	O
ATOM	1036	CB	TYR A 793	64.874	83.579	49.196	1.00	0.00	C
ATOM	1037	CG	TYR A 793	65.734	83.828	50.387	1.00	0.00	C
ATOM	1038	CD1	TYR A 793	66.973	84.404	50.236	1.00	0.00	C
ATOM	1039	CD2	TYR A 793	65.307	83.493	51.651	1.00	0.00	C
ATOM	1040	CE1	TYR A 793	67.779	84.645	51.325	1.00	0.00	C
ATOM	1041	CE2	TYR A 793	66.107	83.733	52.745	1.00	0.00	C
ATOM	1042	CZ	TYR A 793	67.345	84.310	52.583	1.00	0.00	C
ATOM	1043	OH	TYR A 793	68.167	84.562	53.701	1.00	0.00	O
ATOM	1044	N	PHE A 794	63.560	80.842	49.529	1.00	0.00	N
ATOM	1045	CA	PHE A 794	63.048	79.835	50.412	1.00	0.00	C
ATOM	1046	C	PHE A 794	63.539	78.484	50.013	1.00	0.00	C
ATOM	1047	O	PHE A 794	63.729	77.624	50.869	1.00	0.00	O
ATOM	1048	CB	PHE A 794	61.513	79.734	50.441	1.00	0.00	C
ATOM	1049	CG	PHE A 794	60.976	80.917	51.163	1.00	0.00	C

ATOM	1050	CD1 PHE A 794	61.112	81.021	52.527	1.00	0.00	C
ATOM	1051	CD2 PHE A 794	60.315	81.906	50.480	1.00	0.00	C
ATOM	1052	CE1 PHE A 794	60.609	82.113	53.194	1.00	0.00	C
ATOM	1053	CE2 PHE A 794	59.806	82.998	51.138	1.00	0.00	C
ATOM	1054	CZ PHE A 794	59.957	83.103	52.500	1.00	0.00	C
ATOM	1055	N THR A 795	63.739	78.244	48.705	1.00	0.00	N
ATOM	1056	CA THR A 795	64.058	76.913	48.287	1.00	0.00	C
ATOM	1057	C THR A 795	65.297	76.415	48.974	1.00	0.00	C
ATOM	1058	O THR A 795	65.298	75.303	49.499	1.00	0.00	O
ATOM	1059	CB THR A 795	64.231	76.773	46.799	1.00	0.00	C
ATOM	1060	CG2 THR A 795	65.534	77.428	46.331	1.00	0.00	C
ATOM	1061	OG1 THR A 795	64.266	75.403	46.464	1.00	0.00	O
ATOM	1062	N ASP A 796	66.384	77.211	49.013	1.00	0.00	N
ATOM	1063	CA ASP A 796	67.578	76.753	49.668	1.00	0.00	C
ATOM	1064	C ASP A 796	67.307	76.775	51.137	1.00	0.00	C
ATOM	1065	O ASP A 796	66.636	77.673	51.648	1.00	0.00	O
ATOM	1066	CB ASP A 796	68.791	77.664	49.373	1.00	0.00	C
ATOM	1067	CG ASP A 796	70.093	76.980	49.783	1.00	0.00	C
ATOM	1068	OD1 ASP A 796	70.114	76.285	50.832	1.00	0.00	O
ATOM	1069	OD2 ASP A 796	71.096	77.149	49.037	1.00	0.00	O
ATOM	1070	N LEU A 797	67.771	75.739	51.854	1.00	0.00	N
ATOM	1071	CA LEU A 797	67.610	75.651	53.275	1.00	0.00	C
ATOM	1072	C LEU A 797	68.507	76.629	53.970	1.00	0.00	C
ATOM	1073	O LEU A 797	68.117	77.265	54.946	1.00	0.00	O
ATOM	1074	CB LEU A 797	67.971	74.250	53.797	1.00	0.00	C
ATOM	1075	CG LEU A 797	67.066	73.141	53.228	1.00	0.00	C
ATOM	1076	CD1 LEU A 797	67.455	71.760	53.770	1.00	0.00	C
ATOM	1077	CD2 LEU A 797	65.581	73.470	53.451	1.00	0.00	C
ATOM	1078	N TRP A 798	69.746	76.775	53.479	1.00	0.00	N
ATOM	1079	CA TRP A 798	70.727	77.561	54.172	1.00	0.00	C
ATOM	1080	C TRP A 798	70.340	78.997	54.234	1.00	0.00	C
ATOM	1081	O TRP A 798	70.463	79.624	55.286	1.00	0.00	O
ATOM	1082	CB TRP A 798	72.122	77.430	53.541	1.00	0.00	C
ATOM	1083	CG TRP A 798	72.662	76.026	53.682	1.00	0.00	C
ATOM	1084	CD1 TRP A 798	72.696	75.009	52.772	1.00	0.00	C
ATOM	1085	CD2 TRP A 798	73.218	75.503	54.898	1.00	0.00	C
ATOM	1086	CE2 TRP A 798	73.563	74.173	54.656	1.00	0.00	C
ATOM	1087	CE3 TRP A 798	73.420	76.082	56.118	1.00	0.00	C
ATOM	1088	NE1 TRP A 798	73.239	73.883	53.347	1.00	0.00	N
ATOM	1089	CZ2 TRP A 798	74.116	73.398	55.637	1.00	0.00	C
ATOM	1090	CZ3 TRP A 798	73.983	75.300	57.103	1.00	0.00	C
ATOM	1091	CH2 TRP A 798	74.324	73.983	56.866	1.00	0.00	C
HETATM	1092	N AN1 A 799	69.847	79.568	53.085	1.00	0.00	N
HETATM	1093	CA AN1 A 799	69.596	80.997	53.251	1.00	0.00	C

HETATM 1094	C	ANI A 799	68.432	81.237	54.182	1.00	0.00	C
HETATM 1095	O	ANI A 799	68.450	82.266	54.846	1.00	0.00	O
HETATM 1096	CB	ANI A 799	69.332	81.642	51.860	1.00	0.00	C
HETATM 1097	CG	ANI A 799	70.550	81.876	50.959	1.00	0.00	C
HETATM 1098	ND2	ANI A 799	70.858	80.972	50.069	1.00	0.00	N
HETATM 1099	OD1	ANI A 799	71.228	82.888	51.033	1.00	0.00	O
ATOM 1100	N	VAL A 800	67.475	80.308	54.340	1.00	0.00	N
ATOM 1101	CA	VAL A 800	66.484	80.533	55.356	1.00	0.00	C
ATOM 1102	C	VAL A 800	67.121	80.358	56.705	1.00	0.00	C
ATOM 1103	O	VAL A 800	66.762	81.034	57.666	1.00	0.00	O
ATOM 1104	CB	VAL A 800	65.257	79.662	55.263	1.00	0.00	C
ATOM 1105	CG1	VAL A 800	64.584	79.918	53.905	1.00	0.00	C
ATOM 1106	CG2	VAL A 800	65.619	78.195	55.533	1.00	0.00	C
ATOM 1107	N	MET A 801	68.097	79.435	56.815	1.00	0.00	N
ATOM 1108	CA	MET A 801	68.730	79.155	58.074	1.00	0.00	C
ATOM 1109	C	MET A 801	69.415	80.381	58.585	1.00	0.00	C
ATOM 1110	O	MET A 801	69.372	80.665	59.781	1.00	0.00	O
ATOM 1111	CB	MET A 801	69.797	78.049	57.988	1.00	0.00	C
ATOM 1112	CG	MET A 801	70.608	77.899	59.278	1.00	0.00	C
ATOM 1113	SD	MET A 801	69.686	77.259	60.705	1.00	0.00	S
ATOM 1114	CE	MET A 801	69.721	75.535	60.143	1.00	0.00	C
HETATM 1115	N	API A 802	70.069	81.142	57.695	1.00	0.00	N
HETATM 1116	CA	API A 802	70.793	82.304	58.122	1.00	0.00	C
HETATM 1117	C	API A 802	69.838	83.289	58.726	1.00	0.00	C
HETATM 1118	O	API A 802	70.139	83.907	59.748	1.00	0.00	O
HETATM 1119	CB	API A 802	71.514	83.006	56.961	1.00	0.00	C
HETATM 1120	CG	API A 802	71.764	81.995	55.850	1.00	0.00	C
HETATM 1121	OD1	API A 802	72.122	80.829	56.165	1.00	0.00	O1-
HETATM 1122	OD2	API A 802	71.605	82.380	54.662	1.00	0.00	O
ATOM 1123	N	THR A 803	68.655	83.467	58.111	1.00	0.00	N
ATOM 1124	CA	THR A 803	67.710	84.417	58.624	1.00	0.00	C
ATOM 1125	C	THR A 803	67.250	83.963	59.972	1.00	0.00	C
ATOM 1126	O	THR A 803	67.099	84.764	60.889	1.00	0.00	O
ATOM 1127	CB	THR A 803	66.488	84.592	57.763	1.00	0.00	C
ATOM 1128	CG2	THR A 803	66.931	84.980	56.344	1.00	0.00	C
ATOM 1129	OG1	THR A 803	65.729	83.392	57.727	1.00	0.00	O
ATOM 1130	N	LEU A 804	67.020	82.647	60.122	1.00	0.00	N
ATOM 1131	CA	LEU A 804	66.517	82.128	61.362	1.00	0.00	C
ATOM 1132	C	LEU A 804	67.540	82.412	62.418	1.00	0.00	C
ATOM 1133	O	LEU A 804	67.198	82.848	63.516	1.00	0.00	O
ATOM 1134	CB	LEU A 804	66.282	80.604	61.293	1.00	0.00	C
ATOM 1135	CG	LEU A 804	65.558	79.938	62.489	1.00	0.00	C
ATOM 1136	CD1	LEU A 804	65.411	78.425	62.245	1.00	0.00	C
ATOM 1137	CD2	LEU A 804	66.215	80.222	63.850	1.00	0.00	C

ATOM	1138	N	GLY A 805	68.828	82.180	62.109	1.00	0.00	N
ATOM	1139	CA	GLY A 805	69.857	82.367	63.090	1.00	0.00	C
ATOM	1140	C	GLY A 805	69.926	83.807	63.490	1.00	0.00	C
ATOM	1141	O	GLY A 805	70.083	84.126	64.668	1.00	0.00	O
ATOM	1142	N	LEU A 806	69.824	84.720	62.507	1.00	0.00	N
ATOM	1143	CA	LEU A 806	69.934	86.127	62.769	1.00	0.00	C
ATOM	1144	C	LEU A 806	68.787	86.540	63.631	1.00	0.00	C
ATOM	1145	O	LEU A 806	68.945	87.338	64.551	1.00	0.00	O
ATOM	1146	CB	LEU A 806	69.879	86.965	61.474	1.00	0.00	C
ATOM	1147	CG	LEU A 806	70.186	88.471	61.634	1.00	0.00	C
ATOM	1148	CD1	LEU A 806	69.126	89.217	62.461	1.00	0.00	C
ATOM	1149	CD2	LEU A 806	71.617	88.684	62.152	1.00	0.00	C
ATOM	1150	N	PHE A 807	67.593	85.995	63.344	1.00	0.00	N
ATOM	1151	CA	PHE A 807	66.407	86.357	64.067	1.00	0.00	C
ATOM	1152	C	PHE A 807	66.563	85.937	65.496	1.00	0.00	C
ATOM	1153	O	PHE A 807	66.240	86.692	66.411	1.00	0.00	O
ATOM	1154	CB	PHE A 807	65.148	85.669	63.519	1.00	0.00	C
ATOM	1155	CG	PHE A 807	63.995	86.123	64.344	1.00	0.00	C
ATOM	1156	CD1	PHE A 807	63.409	87.346	64.106	1.00	0.00	C
ATOM	1157	CD2	PHE A 807	63.498	85.328	65.350	1.00	0.00	C
ATOM	1158	CE1	PHE A 807	62.344	87.768	64.867	1.00	0.00	C
ATOM	1159	CE2	PHE A 807	62.434	85.745	66.112	1.00	0.00	C
ATOM	1160	CZ	PHE A 807	61.857	86.967	65.872	1.00	0.00	C
ATOM	1161	N	TYR A 808	67.077	84.714	65.716	1.00	0.00	N
ATOM	1162	CA	TYR A 808	67.215	84.178	67.039	1.00	0.00	C
ATOM	1163	C	TYR A 808	68.177	85.039	67.795	1.00	0.00	C
ATOM	1164	O	TYR A 808	67.991	85.309	68.979	1.00	0.00	O
ATOM	1165	CB	TYR A 808	67.728	82.726	67.031	1.00	0.00	C
ATOM	1166	CG	TYR A 808	67.696	82.206	68.430	1.00	0.00	C
ATOM	1167	CD1	TYR A 808	66.493	81.965	69.052	1.00	0.00	C
ATOM	1168	CD2	TYR A 808	68.861	81.930	69.105	1.00	0.00	C
ATOM	1169	CE1	TYR A 808	66.449	81.481	70.338	1.00	0.00	C
ATOM	1170	CE2	TYR A 808	68.825	81.445	70.391	1.00	0.00	C
ATOM	1171	CZ	TYR A 808	67.618	81.220	71.010	1.00	0.00	C
ATOM	1172	OH	TYR A 808	67.583	80.723	72.329	1.00	0.00	O
ATOM	1173	N	PHE A 809	69.244	85.493	67.114	1.00	0.00	N
ATOM	1174	CA	PHE A 809	70.246	86.325	67.715	1.00	0.00	C
ATOM	1175	C	PHE A 809	69.595	87.606	68.131	1.00	0.00	C
ATOM	1176	O	PHE A 809	69.871	88.137	69.208	1.00	0.00	O
ATOM	1177	CB	PHE A 809	71.371	86.660	66.723	1.00	0.00	C
ATOM	1178	CG	PHE A 809	72.402	87.475	67.419	1.00	0.00	C
ATOM	1179	CD1	PHE A 809	73.357	86.863	68.191	1.00	0.00	C
ATOM	1180	CD2	PHE A 809	72.422	88.843	67.292	1.00	0.00	C
ATOM	1181	CE1	PHE A 809	74.317	87.607	68.833	1.00	0.00	C

ATOM	1182	CE2 PHE A 809	73.381	89.593	67.931	1.00	0.00	C
ATOM	1183	CZ PHE A 809	74.331	88.975	68.707	1.00	0.00	C
ATOM	1184	N ILE A 810	68.695	88.133	67.283	1.00	0.00	N
ATOM	1185	CA ILE A 810	68.023	89.369	67.562	1.00	0.00	C
ATOM	1186	C ILE A 810	67.254	89.169	68.825	1.00	0.00	C
ATOM	1187	O ILE A 810	67.253	90.025	69.708	1.00	0.00	O
ATOM	1188	CB ILE A 810	67.003	89.717	66.513	1.00	0.00	C
ATOM	1189	CG1 ILE A 810	67.635	89.838	65.118	1.00	0.00	C
ATOM	1190	CG2 ILE A 810	66.280	90.991	66.984	1.00	0.00	C
ATOM	1191	CD1 ILE A 810	68.634	90.982	64.972	1.00	0.00	C
ATOM	1192	N ALA A 811	66.577	88.013	68.939	1.00	0.00	N
ATOM	1193	CA ALA A 811	65.769	87.734	70.088	1.00	0.00	C
ATOM	1194	C ALA A 811	66.657	87.722	71.288	1.00	0.00	C
ATOM	1195	O ALA A 811	66.313	88.267	72.336	1.00	0.00	O
ATOM	1196	CB ALA A 811	65.082	86.362	70.010	1.00	0.00	C
ATOM	1197	N GLY A 812	67.851	87.121	71.166	1.00	0.00	N
ATOM	1198	CA GLY A 812	68.723	87.033	72.298	1.00	0.00	C
ATOM	1199	C GLY A 812	69.074	88.415	72.737	1.00	0.00	C
ATOM	1200	O GLY A 812	69.179	88.683	73.933	1.00	0.00	O
ATOM	1201	N ILE A 813	69.284	89.328	71.774	1.00	0.00	N
ATOM	1202	CA ILE A 813	69.668	90.670	72.098	1.00	0.00	C
ATOM	1203	C ILE A 813	68.567	91.328	72.868	1.00	0.00	C
ATOM	1204	O ILE A 813	68.818	91.989	73.874	1.00	0.00	O
ATOM	1205	CB ILE A 813	69.950	91.505	70.886	1.00	0.00	C
ATOM	1206	CG1 ILE A 813	71.118	90.902	70.085	1.00	0.00	C
ATOM	1207	CG2 ILE A 813	70.206	92.950	71.349	1.00	0.00	C
ATOM	1208	CD1 ILE A 813	71.289	91.520	68.699	1.00	0.00	C
ATOM	1209	N VAL A 814	67.309	91.161	72.419	1.00	0.00	N
ATOM	1210	CA VAL A 814	66.210	91.816	73.073	1.00	0.00	C
ATOM	1211	C VAL A 814	66.057	91.276	74.464	1.00	0.00	C
ATOM	1212	O VAL A 814	65.803	92.024	75.406	1.00	0.00	O
ATOM	1213	CB VAL A 814	64.906	91.661	72.344	1.00	0.00	C
ATOM	1214	CG1 VAL A 814	64.397	90.219	72.477	1.00	0.00	C
ATOM	1215	CG2 VAL A 814	63.930	92.714	72.886	1.00	0.00	C
ATOM	1216	N PHE A 815	66.223	89.951	74.618	1.00	0.00	N
ATOM	1217	CA PHE A 815	66.081	89.241	75.860	1.00	0.00	C
ATOM	1218	C PHE A 815	67.164	89.604	76.828	1.00	0.00	C
ATOM	1219	O PHE A 815	66.952	89.521	78.036	1.00	0.00	O
ATOM	1220	CB PHE A 815	66.095	87.707	75.714	1.00	0.00	C
ATOM	1221	CG PHE A 815	64.755	87.265	75.238	1.00	0.00	C
ATOM	1222	CD1 PHE A 815	63.706	87.173	76.127	1.00	0.00	C
ATOM	1223	CD2 PHE A 815	64.537	86.917	73.925	1.00	0.00	C
ATOM	1224	CE1 PHE A 815	62.463	86.762	75.706	1.00	0.00	C
ATOM	1225	CE2 PHE A 815	63.298	86.506	73.496	1.00	0.00	C

ATOM	1226	CZ	PHE A 815	62.257	86.429	74.390	1.00	0.00	C
ATOM	1227	N	ARG A 816	68.362	89.978	76.349	1.00	0.00	N
ATOM	1228	CA	ARG A 816	69.434	90.190	77.283	1.00	0.00	C
ATOM	1229	C	ARG A 816	69.073	91.244	78.286	1.00	0.00	C
ATOM	1230	O	ARG A 816	69.326	91.074	79.475	1.00	0.00	O
ATOM	1231	CB	ARG A 816	70.763	90.636	76.654	1.00	0.00	C
ATOM	1232	CG	ARG A 816	71.845	90.803	77.727	1.00	0.00	C
ATOM	1233	CD	ARG A 816	73.164	91.397	77.229	1.00	0.00	C
ATOM	1234	NE	ARG A 816	73.754	90.438	76.258	1.00	0.00	N
ATOM	1235	CZ	ARG A 816	75.107	90.427	76.072	1.00	0.00	C
ATOM	1236	NH1	ARG A 816	75.901	91.236	76.830	1.00	0.00	N
ATOM	1237	NH2	ARG A 816	75.662	89.612	75.129	1.00	0.00	N
ATOM	1238	N	LEU A 817	68.465	92.355	77.835	1.00	0.00	N
ATOM	1239	CA	LEU A 817	68.125	93.461	78.689	1.00	0.00	C
ATOM	1240	C	LEU A 817	67.089	93.013	79.681	1.00	0.00	C
ATOM	1241	O	LEU A 817	67.106	93.436	80.838	1.00	0.00	O
ATOM	1242	CB	LEU A 817	67.579	94.658	77.874	1.00	0.00	C
ATOM	1243	CG	LEU A 817	67.349	95.992	78.626	1.00	0.00	C
ATOM	1244	CD1	LEU A 817	66.872	97.076	77.647	1.00	0.00	C
ATOM	1245	CD2	LEU A 817	66.382	95.867	79.814	1.00	0.00	C
HETATM	1246	N	HIE A 818	66.185	92.107	79.267	1.00	0.00	N
HETATM	1247	CA	HIE A 818	65.045	91.731	80.062	1.00	0.00	C
HETATM	1248	C	HIE A 818	65.454	91.234	81.418	1.00	0.00	C
HETATM	1249	O	HIE A 818	64.880	91.661	82.422	1.00	0.00	O
HETATM	1250	CB	HIE A 818	64.197	90.631	79.406	1.00	0.00	C
HETATM	1251	CG	HIE A 818	62.927	90.369	80.155	1.00	0.00	C
HETATM	1252	CD2	HIE A 818	62.654	89.453	81.123	1.00	0.00	C
HETATM	1253	ND1	HIE A 818	61.761	91.081	79.972	1.00	0.00	N
HETATM	1254	CE1	HIE A 818	60.849	90.564	80.832	1.00	0.00	C
HETATM	1255	NE2	HIE A 818	61.345	89.576	81.554	1.00	0.00	N
ATOM	1256	N	SER A 819	66.483	90.368	81.503	1.00	0.00	N
ATOM	1257	CA	SER A 819	66.923	89.844	82.767	1.00	0.00	C
ATOM	1258	C	SER A 819	65.788	89.277	83.571	1.00	0.00	C
ATOM	1259	O	SER A 819	65.173	89.978	84.373	1.00	0.00	O
ATOM	1260	CB	SER A 819	67.638	90.903	83.620	1.00	0.00	C
ATOM	1261	OG	SER A 819	68.052	90.340	84.853	1.00	0.00	O
ATOM	1262	N	SER A 820	65.450	87.989	83.336	1.00	0.00	N
ATOM	1263	CA	SER A 820	64.395	87.367	84.090	1.00	0.00	C
ATOM	1264	C	SER A 820	64.725	85.913	84.261	1.00	0.00	C
ATOM	1265	O	SER A 820	65.756	85.436	83.795	1.00	0.00	O
ATOM	1266	CB	SER A 820	63.028	87.468	83.390	1.00	0.00	C
ATOM	1267	OG	SER A 820	62.006	86.888	84.188	1.00	0.00	O
ATOM	1268	N	ASN A 821	63.868	85.173	84.998	1.00	0.00	N
ATOM	1269	CA	ASN A 821	64.083	83.767	85.163	1.00	0.00	C

ATOM	1270	C	ASN A 821	63.568	83.079	83.945	1.00	0.00	C
ATOM	1271	O	ASN A 821	62.706	83.597	83.237	1.00	0.00	O
ATOM	1272	CB	ASN A 821	63.386	83.154	86.388	1.00	0.00	C
ATOM	1273	CG	ASN A 821	64.215	83.514	87.609	1.00	0.00	C
ATOM	1274	ND2	ASN A 821	63.538	83.996	88.687	1.00	0.00	N
ATOM	1275	OD1	ASN A 821	65.435	83.369	87.607	1.00	0.00	O
ATOM	1276	N	LYS A 822	64.133	81.892	83.659	1.00	0.00	N
ATOM	1277	CA	LYS A 822	63.779	81.088	82.520	1.00	0.00	C
ATOM	1278	C	LYS A 822	64.295	81.767	81.288	1.00	0.00	C
ATOM	1279	O	LYS A 822	64.169	81.254	80.177	1.00	0.00	O
ATOM	1280	CB	LYS A 822	62.259	80.894	82.397	1.00	0.00	C
ATOM	1281	CG	LYS A 822	61.676	80.133	83.590	1.00	0.00	C
ATOM	1282	CD	LYS A 822	60.155	80.218	83.711	1.00	0.00	C
ATOM	1283	CE	LYS A 822	59.619	79.617	85.013	1.00	0.00	C
ATOM	1284	NZ	LYS A 822	60.008	80.471	86.158	1.00	0.00	N1+
ATOM	1285	N	SER A 823	64.919	82.944	81.479	1.00	0.00	N
ATOM	1286	CA	SER A 823	65.581	83.678	80.445	1.00	0.00	C
ATOM	1287	C	SER A 823	66.295	84.756	81.191	1.00	0.00	C
ATOM	1288	O	SER A 823	65.796	85.874	81.300	1.00	0.00	O
ATOM	1289	CB	SER A 823	64.616	84.360	79.461	1.00	0.00	C
ATOM	1290	OG	SER A 823	65.349	85.069	78.474	1.00	0.00	O
ATOM	1291	N	SER A 824	67.486	84.429	81.725	1.00	0.00	N
ATOM	1292	CA	SER A 824	68.233	85.347	82.533	1.00	0.00	C
ATOM	1293	C	SER A 824	69.385	85.834	81.738	1.00	0.00	C
ATOM	1294	O	SER A 824	69.448	85.661	80.520	1.00	0.00	O
ATOM	1295	CB	SER A 824	68.857	84.706	83.785	1.00	0.00	C
ATOM	1296	OG	SER A 824	67.852	84.207	84.654	1.00	0.00	O
ATOM	1297	N	LEU A 825	70.339	86.476	82.434	1.00	0.00	N
ATOM	1298	CA	LEU A 825	71.515	86.883	81.746	1.00	0.00	C
ATOM	1299	C	LEU A 825	72.139	85.623	81.264	1.00	0.00	C
ATOM	1300	O	LEU A 825	72.716	85.575	80.180	1.00	0.00	O
ATOM	1301	CB	LEU A 825	72.561	87.623	82.590	1.00	0.00	C
ATOM	1302	CG	LEU A 825	73.860	87.820	81.786	1.00	0.00	C
ATOM	1303	CD1	LEU A 825	73.589	88.524	80.452	1.00	0.00	C
ATOM	1304	CD2	LEU A 825	74.944	88.528	82.601	1.00	0.00	C
ATOM	1305	N	TYR A 826	72.027	84.561	82.076	1.00	0.00	N
ATOM	1306	CA	TYR A 826	72.590	83.308	81.686	1.00	0.00	C
ATOM	1307	C	TYR A 826	71.878	82.877	80.443	1.00	0.00	C
ATOM	1308	O	TYR A 826	72.503	82.404	79.496	1.00	0.00	O
ATOM	1309	CB	TYR A 826	72.411	82.207	82.739	1.00	0.00	C
ATOM	1310	CG	TYR A 826	73.153	81.020	82.229	1.00	0.00	C
ATOM	1311	CD1	TYR A 826	74.514	80.934	82.408	1.00	0.00	C
ATOM	1312	CD2	TYR A 826	72.497	80.003	81.576	1.00	0.00	C
ATOM	1313	CE1	TYR A 826	75.215	79.847	81.944	1.00	0.00	C

ATOM	1314	CE2 TYR A 826	73.193	78.914	81.108	1.00	0.00	C
ATOM	1315	CZ TYR A 826	74.553	78.836	81.293	1.00	0.00	C
ATOM	1316	OH TYR A 826	75.273	77.722	80.810	1.00	0.00	O
ATOM	1317	N SER A 827	70.544	83.045	80.414	1.00	0.00	N
ATOM	1318	CA SER A 827	69.786	82.631	79.268	1.00	0.00	C
ATOM	1319	C SER A 827	70.239	83.429	78.092	1.00	0.00	C
ATOM	1320	O SER A 827	70.393	82.899	76.992	1.00	0.00	O
ATOM	1321	CB SER A 827	68.276	82.866	79.425	1.00	0.00	C
ATOM	1322	OG SER A 827	67.594	82.435	78.257	1.00	0.00	O
ATOM	1323	N GLY A 828	70.480	84.737	78.294	1.00	0.00	N
ATOM	1324	CA GLY A 828	70.883	85.575	77.206	1.00	0.00	C
ATOM	1325	C GLY A 828	72.186	85.071	76.690	1.00	0.00	C
ATOM	1326	O GLY A 828	72.415	85.033	75.483	1.00	0.00	O
ATOM	1327	N ARG A 829	73.087	84.677	77.605	1.00	0.00	N
ATOM	1328	CA ARG A 829	74.367	84.198	77.174	1.00	0.00	C
ATOM	1329	C ARG A 829	74.176	82.939	76.398	1.00	0.00	C
ATOM	1330	O ARG A 829	74.873	82.699	75.417	1.00	0.00	O
ATOM	1331	CB ARG A 829	75.355	83.912	78.316	1.00	0.00	C
ATOM	1332	CG ARG A 829	76.008	85.187	78.854	1.00	0.00	C
ATOM	1333	CD ARG A 829	77.307	84.932	79.621	1.00	0.00	C
ATOM	1334	NE ARG A 829	76.955	84.289	80.915	1.00	0.00	N
ATOM	1335	CZ ARG A 829	76.832	85.058	82.038	1.00	0.00	C
ATOM	1336	NH1 ARG A 829	77.061	86.402	81.972	1.00	0.00	N
ATOM	1337	NH2 ARG A 829	76.482	84.479	83.221	1.00	0.00	N
ATOM	1338	N VAL A 830	73.213	82.098	76.817	1.00	0.00	N
ATOM	1339	CA VAL A 830	73.012	80.838	76.159	1.00	0.00	C
ATOM	1340	C VAL A 830	72.648	81.073	74.725	1.00	0.00	C
ATOM	1341	O VAL A 830	73.195	80.445	73.822	1.00	0.00	O
ATOM	1342	CB VAL A 830	71.898	80.042	76.770	1.00	0.00	C
ATOM	1343	CG1 VAL A 830	71.687	78.770	75.931	1.00	0.00	C
ATOM	1344	CG2 VAL A 830	72.243	79.770	78.246	1.00	0.00	C
ATOM	1345	N ILE A 831	71.728	82.015	74.481	1.00	0.00	N
ATOM	1346	CA ILE A 831	71.228	82.304	73.170	1.00	0.00	C
ATOM	1347	C ILE A 831	72.362	82.786	72.331	1.00	0.00	C
ATOM	1348	O ILE A 831	72.497	82.423	71.163	1.00	0.00	O
ATOM	1349	CB ILE A 831	70.278	83.451	73.238	1.00	0.00	C
ATOM	1350	CG1 ILE A 831	69.137	83.125	74.203	1.00	0.00	C
ATOM	1351	CG2 ILE A 831	69.830	83.814	71.819	1.00	0.00	C
ATOM	1352	CD1 ILE A 831	68.444	84.380	74.715	1.00	0.00	C
ATOM	1353	N PHE A 832	73.202	83.639	72.932	1.00	0.00	N
ATOM	1354	CA PHE A 832	74.273	84.300	72.251	1.00	0.00	C
ATOM	1355	C PHE A 832	75.224	83.249	71.759	1.00	0.00	C
ATOM	1356	O PHE A 832	75.701	83.314	70.628	1.00	0.00	O
ATOM	1357	CB PHE A 832	75.001	85.248	73.223	1.00	0.00	C

ATOM	1358	CG PHE A 832	75.629	86.390	72.496	1.00	0.00	C
ATOM	1359	CD1 PHE A 832	74.850	87.442	72.076	1.00	0.00	C
ATOM	1360	CD2 PHE A 832	76.979	86.441	72.265	1.00	0.00	C
ATOM	1361	CE1 PHE A 832	75.405	88.512	71.419	1.00	0.00	C
ATOM	1362	CE2 PHE A 832	77.546	87.508	71.607	1.00	0.00	C
ATOM	1363	CZ PHE A 832	76.758	88.548	71.178	1.00	0.00	C
ATOM	1364	N CYS A 833	75.523	82.246	72.607	1.00	0.00	N
ATOM	1365	CA CYS A 833	76.436	81.196	72.251	1.00	0.00	C
ATOM	1366	C CYS A 833	75.881	80.403	71.111	1.00	0.00	C
ATOM	1367	O CYS A 833	76.599	80.074	70.168	1.00	0.00	O
ATOM	1368	CB CYS A 833	76.683	80.210	73.408	1.00	0.00	C
ATOM	1369	SG CYS A 833	77.840	78.880	72.957	1.00	0.00	S
ATOM	1370	N LEU A 834	74.573	80.086	71.162	1.00	0.00	N
ATOM	1371	CA LEU A 834	73.957	79.271	70.152	1.00	0.00	C
ATOM	1372	C LEU A 834	74.024	79.991	68.847	1.00	0.00	C
ATOM	1373	O LEU A 834	74.292	79.386	67.811	1.00	0.00	O
ATOM	1374	CB LEU A 834	72.475	78.976	70.447	1.00	0.00	C
ATOM	1375	CG LEU A 834	72.271	78.134	71.720	1.00	0.00	C
ATOM	1376	CD1 LEU A 834	70.784	77.835	71.962	1.00	0.00	C
ATOM	1377	CD2 LEU A 834	73.141	76.867	71.698	1.00	0.00	C
ATOM	1378	N ASP A 835	73.800	81.315	68.871	1.00	0.00	N
ATOM	1379	CA ASP A 835	73.811	82.083	67.664	1.00	0.00	C
ATOM	1380	C ASP A 835	75.177	81.960	67.082	1.00	0.00	C
ATOM	1381	O ASP A 835	75.337	81.827	65.872	1.00	0.00	O
ATOM	1382	CB ASP A 835	73.546	83.575	67.921	1.00	0.00	C
ATOM	1383	CG ASP A 835	72.111	83.716	68.411	1.00	0.00	C
ATOM	1384	OD1 ASP A 835	71.253	82.907	67.971	1.00	0.00	O
ATOM	1385	OD2 ASP A 835	71.857	84.630	69.240	1.00	0.00	O
ATOM	1386	N TYR A 836	76.199	81.955	67.950	1.00	0.00	N
ATOM	1387	CA TYR A 836	77.565	81.871	67.523	1.00	0.00	C
ATOM	1388	C TYR A 836	77.736	80.607	66.749	1.00	0.00	C
ATOM	1389	O TYR A 836	78.376	80.598	65.699	1.00	0.00	O
ATOM	1390	CB TYR A 836	78.541	81.817	68.712	1.00	0.00	C
ATOM	1391	CG TYR A 836	79.892	81.422	68.213	1.00	0.00	C
ATOM	1392	CD1 TYR A 836	80.770	82.354	67.715	1.00	0.00	C
ATOM	1393	CD2 TYR A 836	80.275	80.102	68.256	1.00	0.00	C
ATOM	1394	CE1 TYR A 836	82.010	81.966	67.262	1.00	0.00	C
ATOM	1395	CE2 TYR A 836	81.512	79.709	67.802	1.00	0.00	C
ATOM	1396	CZ TYR A 836	82.384	80.646	67.304	1.00	0.00	C
ATOM	1397	OH TYR A 836	83.657	80.252	66.840	1.00	0.00	O
ATOM	1398	N ILE A 837	77.155	79.501	67.245	1.00	0.00	N
ATOM	1399	CA ILE A 837	77.334	78.232	66.605	1.00	0.00	C
ATOM	1400	C ILE A 837	76.759	78.281	65.223	1.00	0.00	C
ATOM	1401	O ILE A 837	77.394	77.840	64.269	1.00	0.00	O

ATOM 1402	CB ILE A 837	76.645	77.116	67.331	1.00	0.00	C
ATOM 1403	CG1 ILE A 837	77.200	76.979	68.757	1.00	0.00	C
ATOM 1404	CG2 ILE A 837	76.806	75.844	66.485	1.00	0.00	C
ATOM 1405	CD1 ILE A 837	76.354	76.073	69.652	1.00	0.00	C
ATOM 1406	N ILE A 838	75.543	78.838	65.077	1.00	0.00	N
ATOM 1407	CA ILE A 838	74.901	78.845	63.793	1.00	0.00	C
ATOM 1408	C ILE A 838	75.688	79.675	62.833	1.00	0.00	C
ATOM 1409	O ILE A 838	75.816	79.312	61.665	1.00	0.00	O
ATOM 1410	CB ILE A 838	73.485	79.353	63.809	1.00	0.00	C
ATOM 1411	CG1 ILE A 838	72.779	78.969	62.497	1.00	0.00	C
ATOM 1412	CG2 ILE A 838	73.514	80.869	64.064	1.00	0.00	C
ATOM 1413	CD1 ILE A 838	72.589	77.460	62.329	1.00	0.00	C
ATOM 1414	N PHE A 839	76.236	80.818	63.290	1.00	0.00	N
ATOM 1415	CA PHE A 839	76.965	81.661	62.388	1.00	0.00	C
ATOM 1416	C PHE A 839	78.120	80.885	61.860	1.00	0.00	C
ATOM 1417	O PHE A 839	78.423	80.932	60.670	1.00	0.00	O
ATOM 1418	CB PHE A 839	77.505	82.960	63.017	1.00	0.00	C
ATOM 1419	CG PHE A 839	76.341	83.852	63.285	1.00	0.00	C
ATOM 1420	CD1 PHE A 839	75.642	84.419	62.241	1.00	0.00	C
ATOM 1421	CD2 PHE A 839	75.961	84.149	64.569	1.00	0.00	C
ATOM 1422	CE1 PHE A 839	74.569	85.245	62.478	1.00	0.00	C
ATOM 1423	CE2 PHE A 839	74.887	84.974	64.817	1.00	0.00	C
ATOM 1424	CZ PHE A 839	74.187	85.521	63.768	1.00	0.00	C
ATOM 1425	N THR A 840	78.784	80.120	62.737	1.00	0.00	N
ATOM 1426	CA THR A 840	79.938	79.367	62.358	1.00	0.00	C
ATOM 1427	C THR A 840	79.506	78.390	61.308	1.00	0.00	C
ATOM 1428	O THR A 840	80.211	78.162	60.327	1.00	0.00	O
ATOM 1429	CB THR A 840	80.466	78.585	63.518	1.00	0.00	C
ATOM 1430	CG2 THR A 840	81.832	78.005	63.135	1.00	0.00	C
ATOM 1431	OG1 THR A 840	80.638	79.450	64.628	1.00	0.00	O
ATOM 1432	N LEU A 841	78.305	77.809	61.484	1.00	0.00	N
ATOM 1433	CA LEU A 841	77.812	76.808	60.583	1.00	0.00	C
ATOM 1434	C LEU A 841	77.701	77.427	59.228	1.00	0.00	C
ATOM 1435	O LEU A 841	78.007	76.797	58.217	1.00	0.00	O
ATOM 1436	CB LEU A 841	76.422	76.286	60.979	1.00	0.00	C
ATOM 1437	CG LEU A 841	75.881	75.210	60.022	1.00	0.00	C
ATOM 1438	CD1 LEU A 841	76.748	73.941	60.073	1.00	0.00	C
ATOM 1439	CD2 LEU A 841	74.395	74.923	60.283	1.00	0.00	C
ATOM 1440	N ARG A 842	77.262	78.691	59.184	1.00	0.00	N
ATOM 1441	CA ARG A 842	77.096	79.433	57.970	1.00	0.00	C
ATOM 1442	C ARG A 842	78.430	79.507	57.295	1.00	0.00	C
ATOM 1443	O ARG A 842	78.546	79.283	56.091	1.00	0.00	O
ATOM 1444	CB ARG A 842	76.630	80.853	58.323	1.00	0.00	C
ATOM 1445	CG ARG A 842	76.577	81.890	57.206	1.00	0.00	C

ATOM	1446	CD	ARG	A	842	76.095	83.225	57.780	1.00	0.00	C
ATOM	1447	NE	ARG	A	842	76.223	84.285	56.748	1.00	0.00	N
ATOM	1448	CZ	ARG	A	842	75.732	85.528	57.021	1.00	0.00	C
ATOM	1449	NH1	ARG	A	842	75.062	85.755	58.192	1.00	0.00	N
ATOM	1450	NH2	ARG	A	842	75.907	86.546	56.132	1.00	0.00	N
ATOM	1451	N	LEU	A	843	79.491	79.801	58.069	1.00	0.00	N
ATOM	1452	CA	LEU	A	843	80.795	79.903	57.486	1.00	0.00	C
ATOM	1453	C	LEU	A	843	81.185	78.582	56.924	1.00	0.00	C
ATOM	1454	O	LEU	A	843	81.742	78.507	55.833	1.00	0.00	O
ATOM	1455	CB	LEU	A	843	81.897	80.318	58.474	1.00	0.00	C
ATOM	1456	CG	LEU	A	843	81.871	81.814	58.842	1.00	0.00	C
ATOM	1457	CD1	LEU	A	843	80.556	82.205	59.523	1.00	0.00	C
ATOM	1458	CD2	LEU	A	843	83.113	82.205	59.659	1.00	0.00	C
ATOM	1459	N	ILE	A	844	80.867	77.492	57.643	1.00	0.00	N
ATOM	1460	CA	ILE	A	844	81.280	76.192	57.215	1.00	0.00	C
ATOM	1461	C	ILE	A	844	80.699	75.947	55.862	1.00	0.00	C
ATOM	1462	O	ILE	A	844	81.383	75.461	54.963	1.00	0.00	O
ATOM	1463	CB	ILE	A	844	80.769	75.121	58.130	1.00	0.00	C
ATOM	1464	CG1	ILE	A	844	81.335	75.337	59.540	1.00	0.00	C
ATOM	1465	CG2	ILE	A	844	81.115	73.759	57.507	1.00	0.00	C
ATOM	1466	CD1	ILE	A	844	80.584	74.577	60.629	1.00	0.00	C
HETATM	1467	N	HIE	A	845	79.419	76.304	55.672	1.00	0.00	N
HETATM	1468	CA	HIE	A	845	78.803	76.060	54.403	1.00	0.00	C
HETATM	1469	C	HIE	A	845	79.524	76.852	53.360	1.00	0.00	C
HETATM	1470	O	HIE	A	845	79.717	76.383	52.243	1.00	0.00	O
HETATM	1471	CB	HIE	A	845	77.322	76.445	54.331	1.00	0.00	C
HETATM	1472	CG	HIE	A	845	76.727	76.032	53.018	1.00	0.00	C
HETATM	1473	CD2	HIE	A	845	76.459	76.770	51.904	1.00	0.00	C
HETATM	1474	ND1	HIE	A	845	76.351	74.743	52.711	1.00	0.00	N
HETATM	1475	CE1	HIE	A	845	75.879	74.761	51.443	1.00	0.00	C
HETATM	1476	NE2	HIE	A	845	75.924	75.971	50.910	1.00	0.00	N
ATOM	1477	N	ILE	A	846	79.944	78.080	53.707	1.00	0.00	N
ATOM	1478	CA	ILE	A	846	80.601	78.925	52.756	1.00	0.00	C
ATOM	1479	C	ILE	A	846	81.855	78.240	52.313	1.00	0.00	C
ATOM	1480	O	ILE	A	846	82.171	78.216	51.125	1.00	0.00	O
ATOM	1481	CB	ILE	A	846	80.988	80.253	53.348	1.00	0.00	C
ATOM	1482	CG1	ILE	A	846	79.735	80.989	53.853	1.00	0.00	C
ATOM	1483	CG2	ILE	A	846	81.771	81.037	52.279	1.00	0.00	C
ATOM	1484	CD1	ILE	A	846	80.049	82.200	54.733	1.00	0.00	C
ATOM	1485	N	PHE	A	847	82.596	77.641	53.263	1.00	0.00	N
ATOM	1486	CA	PHE	A	847	83.835	77.001	52.926	1.00	0.00	C
ATOM	1487	C	PHE	A	847	83.537	75.864	51.996	1.00	0.00	C
ATOM	1488	O	PHE	A	847	84.236	75.660	51.004	1.00	0.00	O
ATOM	1489	CB	PHE	A	847	84.554	76.366	54.132	1.00	0.00	C

ATOM	1490	CG	PHE A 847	84.842	77.408	55.161	1.00	0.00	C
ATOM	1491	CD1	PHE A 847	85.789	78.387	54.945	1.00	0.00	C
ATOM	1492	CD2	PHE A 847	84.180	77.381	56.367	1.00	0.00	C
ATOM	1493	CE1	PHE A 847	86.041	79.331	55.908	1.00	0.00	C
ATOM	1494	CE2	PHE A 847	84.430	78.325	57.335	1.00	0.00	C
ATOM	1495	CZ	PHE A 847	85.364	79.308	57.105	1.00	0.00	C
ATOM	1496	N	THR A 848	82.470	75.103	52.297	1.00	0.00	N
ATOM	1497	CA	THR A 848	82.128	73.916	51.569	1.00	0.00	C
ATOM	1498	C	THR A 848	81.873	74.258	50.139	1.00	0.00	C
ATOM	1499	O	THR A 848	82.391	73.614	49.229	1.00	0.00	O
ATOM	1500	CB	THR A 848	80.850	73.314	52.066	1.00	0.00	C
ATOM	1501	CG2	THR A 848	80.625	71.978	51.343	1.00	0.00	C
ATOM	1502	OG1	THR A 848	80.930	73.098	53.466	1.00	0.00	O
ATOM	1503	N	VAL A 849	81.060	75.298	49.897	1.00	0.00	N
ATOM	1504	CA	VAL A 849	80.746	75.639	48.544	1.00	0.00	C
ATOM	1505	C	VAL A 849	81.998	76.068	47.860	1.00	0.00	C
ATOM	1506	O	VAL A 849	82.274	75.662	46.731	1.00	0.00	O
ATOM	1507	CB	VAL A 849	79.778	76.780	48.443	1.00	0.00	C
ATOM	1508	CG1	VAL A 849	79.605	77.142	46.959	1.00	0.00	C
ATOM	1509	CG2	VAL A 849	78.471	76.376	49.148	1.00	0.00	C
ATOM	1510	N	SER A 850	82.803	76.897	48.546	1.00	0.00	N
ATOM	1511	CA	SER A 850	83.993	77.444	47.966	1.00	0.00	C
ATOM	1512	C	SER A 850	84.925	76.330	47.618	1.00	0.00	C
ATOM	1513	O	SER A 850	85.534	76.335	46.547	1.00	0.00	O
ATOM	1514	CB	SER A 850	84.742	78.370	48.939	1.00	0.00	C
ATOM	1515	OG	SER A 850	83.922	79.474	49.293	1.00	0.00	O
ATOM	1516	N	ARG A 851	85.064	75.335	48.514	1.00	0.00	N
ATOM	1517	CA	ARG A 851	85.989	74.269	48.263	1.00	0.00	C
ATOM	1518	C	ARG A 851	85.571	73.493	47.055	1.00	0.00	C
ATOM	1519	O	ARG A 851	86.410	73.170	46.214	1.00	0.00	O
ATOM	1520	CB	ARG A 851	86.145	73.282	49.437	1.00	0.00	C
ATOM	1521	CG	ARG A 851	84.847	72.593	49.872	1.00	0.00	C
ATOM	1522	CD	ARG A 851	85.045	71.444	50.866	1.00	0.00	C
ATOM	1523	NE	ARG A 851	85.396	70.224	50.087	1.00	0.00	N
ATOM	1524	CZ	ARG A 851	84.419	69.332	49.745	1.00	0.00	C
ATOM	1525	NH1	ARG A 851	83.133	69.535	50.160	1.00	0.00	N
ATOM	1526	NH2	ARG A 851	84.726	68.234	48.995	1.00	0.00	N
ATOM	1527	N	ASN A 852	84.266	73.178	46.920	1.00	0.00	N
ATOM	1528	CA	ASN A 852	83.873	72.340	45.823	1.00	0.00	C
ATOM	1529	C	ASN A 852	83.064	73.135	44.837	1.00	0.00	C
ATOM	1530	O	ASN A 852	81.838	73.055	44.815	1.00	0.00	O
ATOM	1531	CB	ASN A 852	83.003	71.167	46.297	1.00	0.00	C
ATOM	1532	CG	ASN A 852	82.997	70.125	45.203	1.00	0.00	C
ATOM	1533	ND2	ASN A 852	82.490	68.908	45.544	1.00	0.00	N

ATOM	1534	OD1 ASN A 852	83.438	70.382	44.085	1.00	0.00	O
ATOM	1535	N LEU A 853	83.759	73.951	44.023	1.00	0.00	N
ATOM	1536	CA LEU A 853	83.234	74.772	42.965	1.00	0.00	C
ATOM	1537	C LEU A 853	82.929	73.950	41.748	1.00	0.00	C
ATOM	1538	O LEU A 853	82.008	74.264	40.999	1.00	0.00	O
ATOM	1539	CB LEU A 853	84.241	75.890	42.594	1.00	0.00	C
ATOM	1540	CG LEU A 853	83.813	76.929	41.529	1.00	0.00	C
ATOM	1541	CD1 LEU A 853	84.859	78.053	41.449	1.00	0.00	C
ATOM	1542	CD2 LEU A 853	83.585	76.325	40.134	1.00	0.00	C
ATOM	1543	N GLY A 854	83.722	72.883	41.522	1.00	0.00	N
ATOM	1544	CA GLY A 854	83.723	72.086	40.319	1.00	0.00	C
ATOM	1545	C GLY A 854	82.360	71.624	39.916	1.00	0.00	C
ATOM	1546	O GLY A 854	81.356	71.866	40.579	1.00	0.00	O
ATOM	1547	N PRO A 855	82.365	70.797	38.873	1.00	0.00	N
ATOM	1548	CA PRO A 855	81.213	70.140	38.315	1.00	0.00	C
ATOM	1549	C PRO A 855	80.450	69.405	39.359	1.00	0.00	C
ATOM	1550	O PRO A 855	79.319	68.982	39.124	1.00	0.00	O
ATOM	1551	CB PRO A 855	81.726	69.314	37.142	1.00	0.00	C
ATOM	1552	CG PRO A 855	82.935	70.135	36.653	1.00	0.00	C
ATOM	1553	CD PRO A 855	83.455	70.847	37.914	1.00	0.00	C
ATOM	1554	N LYS A 856	81.078	69.280	40.521	1.00	0.00	N
ATOM	1555	CA LYS A 856	80.607	68.731	41.725	1.00	0.00	C
ATOM	1556	C LYS A 856	79.445	69.532	42.238	1.00	0.00	C
ATOM	1557	O LYS A 856	78.648	68.996	42.998	1.00	0.00	O
ATOM	1558	CB LYS A 856	81.687	68.716	42.805	1.00	0.00	C
ATOM	1559	CG LYS A 856	82.911	67.876	42.435	1.00	0.00	C
ATOM	1560	CD LYS A 856	83.817	68.514	41.380	1.00	0.00	C
ATOM	1561	CE LYS A 856	85.118	69.071	41.965	1.00	0.00	C
ATOM	1562	NZ LYS A 856	86.005	69.545	40.879	1.00	0.00	N1+
ATOM	1563	N ILE A 857	79.302	70.826	41.864	1.00	0.00	N
ATOM	1564	CA ILE A 857	78.234	71.601	42.445	1.00	0.00	C
ATOM	1565	C ILE A 857	76.919	70.961	42.187	1.00	0.00	C
ATOM	1566	O ILE A 857	76.079	70.885	43.084	1.00	0.00	O
ATOM	1567	CB ILE A 857	78.107	73.015	41.960	1.00	0.00	C
ATOM	1568	CG1 ILE A 857	76.923	73.688	42.671	1.00	0.00	C
ATOM	1569	CG2 ILE A 857	77.877	72.988	40.446	1.00	0.00	C
ATOM	1570	CD1 ILE A 857	77.009	73.692	44.192	1.00	0.00	C
ATOM	1571	N ILE A 858	76.700	70.456	40.966	1.00	0.00	N
ATOM	1572	CA ILE A 858	75.425	69.897	40.648	1.00	0.00	C
ATOM	1573	C ILE A 858	75.157	68.769	41.600	1.00	0.00	C
ATOM	1574	O ILE A 858	74.064	68.648	42.148	1.00	0.00	O
ATOM	1575	CB ILE A 858	75.400	69.419	39.211	1.00	0.00	C
ATOM	1576	CG1 ILE A 858	73.971	69.194	38.712	1.00	0.00	C
ATOM	1577	CG2 ILE A 858	76.326	68.207	39.049	1.00	0.00	C

ATOM 1578	CD1 ILE A 858	73.269	70.483	38.295	1.00	0.00	C
ATOM 1579	N MET A 859	76.177	67.925	41.844	1.00	0.00	N
ATOM 1580	CA MET A 859	76.055	66.788	42.705	1.00	0.00	C
ATOM 1581	C MET A 859	75.842	67.240	44.113	1.00	0.00	C
ATOM 1582	O MET A 859	75.059	66.647	44.855	1.00	0.00	O
ATOM 1583	CB MET A 859	77.314	65.904	42.674	1.00	0.00	C
ATOM 1584	CG MET A 859	77.165	64.570	43.410	1.00	0.00	C
ATOM 1585	SD MET A 859	77.127	64.680	45.223	1.00	0.00	S
ATOM 1586	CE MET A 859	78.911	64.978	45.365	1.00	0.00	C
ATOM 1587	N LEU A 860	76.537	68.320	44.503	1.00	0.00	N
ATOM 1588	CA LEU A 860	76.552	68.786	45.857	1.00	0.00	C
ATOM 1589	C LEU A 860	75.174	69.186	46.292	1.00	0.00	C
ATOM 1590	O LEU A 860	74.744	68.828	47.390	1.00	0.00	O
ATOM 1591	CB LEU A 860	77.531	69.977	46.005	1.00	0.00	C
ATOM 1592	CG LEU A 860	77.821	70.495	47.429	1.00	0.00	C
ATOM 1593	CD1 LEU A 860	78.877	71.611	47.376	1.00	0.00	C
ATOM 1594	CD2 LEU A 860	76.558	70.962	48.177	1.00	0.00	C
ATOM 1595	N GLN A 861	74.424	69.925	45.456	1.00	0.00	N
ATOM 1596	CA GLN A 861	73.148	70.403	45.914	1.00	0.00	C
ATOM 1597	C GLN A 861	72.197	69.269	46.153	1.00	0.00	C
ATOM 1598	O GLN A 861	71.500	69.246	47.166	1.00	0.00	O
ATOM 1599	CB GLN A 861	72.462	71.378	44.945	1.00	0.00	C
ATOM 1600	CG GLN A 861	71.143	71.907	45.516	1.00	0.00	C
ATOM 1601	CD GLN A 861	70.521	72.867	44.516	1.00	0.00	C
ATOM 1602	NE2 GLN A 861	69.399	73.517	44.923	1.00	0.00	N
ATOM 1603	OE1 GLN A 861	71.014	73.035	43.402	1.00	0.00	O
ATOM 1604	N ARG A 862	72.145	68.291	45.232	1.00	0.00	N
ATOM 1605	CA ARG A 862	71.213	67.202	45.346	1.00	0.00	C
ATOM 1606	C ARG A 862	71.543	66.412	46.570	1.00	0.00	C
ATOM 1607	O ARG A 862	70.659	65.982	47.309	1.00	0.00	O
ATOM 1608	CB ARG A 862	71.301	66.234	44.155	1.00	0.00	C
ATOM 1609	CG ARG A 862	70.329	65.057	44.226	1.00	0.00	C
ATOM 1610	CD ARG A 862	68.876	65.453	43.965	1.00	0.00	C
ATOM 1611	NE ARG A 862	68.076	64.198	43.953	1.00	0.00	N
ATOM 1612	CZ ARG A 862	67.579	63.698	45.122	1.00	0.00	C
ATOM 1613	NH1 ARG A 862	67.775	64.377	46.289	1.00	0.00	N
ATOM 1614	NH2 ARG A 862	66.886	62.522	45.121	1.00	0.00	N
ATOM 1615	N MET A 863	72.844	66.212	46.821	1.00	0.00	N
ATOM 1616	CA MET A 863	73.269	65.431	47.942	1.00	0.00	C
ATOM 1617	C MET A 863	72.806	66.120	49.180	1.00	0.00	C
ATOM 1618	O MET A 863	72.392	65.484	50.148	1.00	0.00	O
ATOM 1619	CB MET A 863	74.801	65.298	47.991	1.00	0.00	C
ATOM 1620	CG MET A 863	75.333	64.475	49.165	1.00	0.00	C
ATOM 1621	SD MET A 863	75.329	65.348	50.756	1.00	0.00	S

ATOM	1622	CE	MET	A	863	76.115	63.995	51.677	1.00	0.00	C
ATOM	1623	N	LEU	A	864	72.850	67.461	49.174	1.00	0.00	N
ATOM	1624	CA	LEU	A	864	72.478	68.206	50.334	1.00	0.00	C
ATOM	1625	C	LEU	A	864	71.041	67.932	50.642	1.00	0.00	C
ATOM	1626	O	LEU	A	864	70.680	67.677	51.789	1.00	0.00	O
ATOM	1627	CB	LEU	A	864	72.546	69.723	50.103	1.00	0.00	C
ATOM	1628	CG	LEU	A	864	72.273	70.544	51.374	1.00	0.00	C
ATOM	1629	CD1	LEU	A	864	73.528	70.624	52.256	1.00	0.00	C
ATOM	1630	CD2	LEU	A	864	71.635	71.900	51.049	1.00	0.00	C
ATOM	1631	N	ILE	A	865	70.173	67.975	49.618	1.00	0.00	N
ATOM	1632	CA	ILE	A	865	68.776	67.819	49.892	1.00	0.00	C
ATOM	1633	C	ILE	A	865	68.492	66.446	50.409	1.00	0.00	C
ATOM	1634	O	ILE	A	865	67.778	66.290	51.399	1.00	0.00	O
ATOM	1635	CB	ILE	A	865	67.894	68.084	48.703	1.00	0.00	C
ATOM	1636	CG1	ILE	A	865	66.431	68.196	49.156	1.00	0.00	C
ATOM	1637	CG2	ILE	A	865	68.137	67.006	47.636	1.00	0.00	C
ATOM	1638	CD1	ILE	A	865	65.507	68.774	48.085	1.00	0.00	C
ATOM	1639	N	ASP	A	866	69.054	65.398	49.771	1.00	0.00	N
ATOM	1640	CA	ASP	A	866	68.710	64.079	50.210	1.00	0.00	C
ATOM	1641	C	ASP	A	866	69.221	63.818	51.597	1.00	0.00	C
ATOM	1642	O	ASP	A	866	68.540	63.170	52.393	1.00	0.00	O
ATOM	1643	CB	ASP	A	866	69.102	62.957	49.220	1.00	0.00	C
ATOM	1644	CG	ASP	A	866	70.592	62.913	48.914	1.00	0.00	C
ATOM	1645	OD1	ASP	A	866	71.419	63.167	49.825	1.00	0.00	O
ATOM	1646	OD2	ASP	A	866	70.920	62.616	47.737	1.00	0.00	O
ATOM	1647	N	VAL	A	867	70.419	64.327	51.940	1.00	0.00	N
ATOM	1648	CA	VAL	A	867	70.956	64.066	53.246	1.00	0.00	C
ATOM	1649	C	VAL	A	867	70.083	64.708	54.278	1.00	0.00	C
ATOM	1650	O	VAL	A	867	69.800	64.113	55.311	1.00	0.00	O
ATOM	1651	CB	VAL	A	867	72.353	64.576	53.431	1.00	0.00	C
ATOM	1652	CG1	VAL	A	867	73.270	63.827	52.452	1.00	0.00	C
ATOM	1653	CG2	VAL	A	867	72.363	66.104	53.270	1.00	0.00	C
ATOM	1654	N	PHE	A	868	69.611	65.942	54.021	1.00	0.00	N
ATOM	1655	CA	PHE	A	868	68.808	66.610	55.007	1.00	0.00	C
ATOM	1656	C	PHE	A	868	67.581	65.811	55.273	1.00	0.00	C
ATOM	1657	O	PHE	A	868	67.180	65.648	56.424	1.00	0.00	O
ATOM	1658	CB	PHE	A	868	68.355	68.023	54.600	1.00	0.00	C
ATOM	1659	CG	PHE	A	868	69.470	68.967	54.883	1.00	0.00	C
ATOM	1660	CD1	PHE	A	868	69.669	69.418	56.168	1.00	0.00	C
ATOM	1661	CD2	PHE	A	868	70.300	69.415	53.886	1.00	0.00	C
ATOM	1662	CE1	PHE	A	868	70.687	70.293	56.464	1.00	0.00	C
ATOM	1663	CE2	PHE	A	868	71.320	70.292	54.180	1.00	0.00	C
ATOM	1664	CZ	PHE	A	868	71.517	70.733	55.465	1.00	0.00	C
ATOM	1665	N	PHE	A	869	66.953	65.283	54.211	1.00	0.00	N

ATOM	1666	CA	PHE A 869	65.752	64.525	54.381	1.00	0.00	C
ATOM	1667	C	PHE A 869	66.083	63.357	55.265	1.00	0.00	C
ATOM	1668	O	PHE A 869	65.384	63.080	56.236	1.00	0.00	O
ATOM	1669	CB	PHE A 869	65.247	63.976	53.032	1.00	0.00	C
ATOM	1670	CG	PHE A 869	63.959	63.251	53.222	1.00	0.00	C
ATOM	1671	CD1	PHE A 869	62.767	63.939	53.226	1.00	0.00	C
ATOM	1672	CD2	PHE A 869	63.940	61.884	53.385	1.00	0.00	C
ATOM	1673	CE1	PHE A 869	61.574	63.278	53.399	1.00	0.00	C
ATOM	1674	CE2	PHE A 869	62.750	61.215	53.557	1.00	0.00	C
ATOM	1675	CZ	PHE A 869	61.565	61.913	53.566	1.00	0.00	C
ATOM	1676	N	PHE A 870	67.201	62.670	54.963	1.00	0.00	N
ATOM	1677	CA	PHE A 870	67.607	61.494	55.679	1.00	0.00	C
ATOM	1678	C	PHE A 870	67.850	61.773	57.126	1.00	0.00	C
ATOM	1679	O	PHE A 870	67.325	61.074	57.989	1.00	0.00	O
ATOM	1680	CB	PHE A 870	68.890	60.878	55.088	1.00	0.00	C
ATOM	1681	CG	PHE A 870	69.482	59.931	56.072	1.00	0.00	C
ATOM	1682	CD1	PHE A 870	68.704	58.996	56.702	1.00	0.00	C
ATOM	1683	CD2	PHE A 870	70.829	59.943	56.344	1.00	0.00	C
ATOM	1684	CE1	PHE A 870	69.234	58.097	57.600	1.00	0.00	C
ATOM	1685	CE2	PHE A 870	71.376	59.050	57.241	1.00	0.00	C
ATOM	1686	CZ	PHE A 870	70.579	58.128	57.870	1.00	0.00	C
ATOM	1687	N	LEU A 871	68.645	62.808	57.435	1.00	0.00	N
ATOM	1688	CA	LEU A 871	68.951	63.056	58.811	1.00	0.00	C
ATOM	1689	C	LEU A 871	67.698	63.402	59.541	1.00	0.00	C
ATOM	1690	O	LEU A 871	67.517	63.001	60.687	1.00	0.00	O
ATOM	1691	CB	LEU A 871	69.970	64.190	59.029	1.00	0.00	C
ATOM	1692	CG	LEU A 871	71.424	63.796	58.707	1.00	0.00	C
ATOM	1693	CD1	LEU A 871	71.925	62.716	59.681	1.00	0.00	C
ATOM	1694	CD2	LEU A 871	71.610	63.389	57.239	1.00	0.00	C
ATOM	1695	N	PHE A 872	66.783	64.144	58.891	1.00	0.00	N
ATOM	1696	CA	PHE A 872	65.601	64.567	59.581	1.00	0.00	C
ATOM	1697	C	PHE A 872	64.827	63.366	60.020	1.00	0.00	C
ATOM	1698	O	PHE A 872	64.418	63.279	61.176	1.00	0.00	O
ATOM	1699	CB	PHE A 872	64.670	65.432	58.712	1.00	0.00	C
ATOM	1700	CG	PHE A 872	63.566	65.901	59.596	1.00	0.00	C
ATOM	1701	CD1	PHE A 872	63.757	66.976	60.433	1.00	0.00	C
ATOM	1702	CD2	PHE A 872	62.340	65.271	59.591	1.00	0.00	C
ATOM	1703	CE1	PHE A 872	62.746	67.418	61.254	1.00	0.00	C
ATOM	1704	CE2	PHE A 872	61.329	65.711	60.409	1.00	0.00	C
ATOM	1705	CZ	PHE A 872	61.528	66.783	61.242	1.00	0.00	C
ATOM	1706	N	LEU A 873	64.615	62.393	59.117	1.00	0.00	N
ATOM	1707	CA	LEU A 873	63.841	61.241	59.481	1.00	0.00	C
ATOM	1708	C	LEU A 873	64.537	60.442	60.537	1.00	0.00	C
ATOM	1709	O	LEU A 873	63.898	59.917	61.447	1.00	0.00	O

ATOM	1710	CB	LEU	A	873	63.533	60.303	58.307	1.00	0.00	C
ATOM	1711	CG	LEU	A	873	62.437	60.843	57.371	1.00	0.00	C
ATOM	1712	CD1	LEU	A	873	62.848	62.161	56.701	1.00	0.00	C
ATOM	1713	CD2	LEU	A	873	62.003	59.767	56.371	1.00	0.00	C
ATOM	1714	N	PHE	A	874	65.868	60.310	60.455	1.00	0.00	N
ATOM	1715	CA	PHE	A	874	66.511	59.467	61.416	1.00	0.00	C
ATOM	1716	C	PHE	A	874	66.304	60.054	62.776	1.00	0.00	C
ATOM	1717	O	PHE	A	874	65.927	59.354	63.716	1.00	0.00	O
ATOM	1718	CB	PHE	A	874	68.025	59.342	61.170	1.00	0.00	C
ATOM	1719	CG	PHE	A	874	68.503	58.153	61.929	1.00	0.00	C
ATOM	1720	CD1	PHE	A	874	68.395	56.897	61.372	1.00	0.00	C
ATOM	1721	CD2	PHE	A	874	69.062	58.275	63.179	1.00	0.00	C
ATOM	1722	CE1	PHE	A	874	68.831	55.784	62.050	1.00	0.00	C
ATOM	1723	CE2	PHE	A	874	69.499	57.165	63.861	1.00	0.00	C
ATOM	1724	CZ	PHE	A	874	69.384	55.918	63.301	1.00	0.00	C
ATOM	1725	N	ALA	A	875	66.525	61.375	62.910	1.00	0.00	N
ATOM	1726	CA	ALA	A	875	66.406	62.035	64.178	1.00	0.00	C
ATOM	1727	C	ALA	A	875	64.993	61.943	64.661	1.00	0.00	C
ATOM	1728	O	ALA	A	875	64.757	61.683	65.838	1.00	0.00	O
ATOM	1729	CB	ALA	A	875	66.772	63.528	64.102	1.00	0.00	C
ATOM	1730	N	VAL	A	876	64.015	62.144	63.758	1.00	0.00	N
ATOM	1731	CA	VAL	A	876	62.644	62.133	64.182	1.00	0.00	C
ATOM	1732	C	VAL	A	876	62.299	60.778	64.693	1.00	0.00	C
ATOM	1733	O	VAL	A	876	61.586	60.646	65.689	1.00	0.00	O
ATOM	1734	CB	VAL	A	876	61.669	62.524	63.104	1.00	0.00	C
ATOM	1735	CG1	VAL	A	876	61.986	63.972	62.701	1.00	0.00	C
ATOM	1736	CG2	VAL	A	876	61.733	61.517	61.945	1.00	0.00	C
ATOM	1737	N	TRP	A	877	62.794	59.719	64.033	1.00	0.00	N
ATOM	1738	CA	TRP	A	877	62.478	58.398	64.486	1.00	0.00	C
ATOM	1739	C	TRP	A	877	63.029	58.221	65.868	1.00	0.00	C
ATOM	1740	O	TRP	A	877	62.343	57.722	66.757	1.00	0.00	O
ATOM	1741	CB	TRP	A	877	63.090	57.296	63.605	1.00	0.00	C
ATOM	1742	CG	TRP	A	877	62.860	55.897	64.127	1.00	0.00	C
ATOM	1743	CD1	TRP	A	877	61.805	55.054	63.943	1.00	0.00	C
ATOM	1744	CD2	TRP	A	877	63.801	55.199	64.955	1.00	0.00	C
ATOM	1745	CE2	TRP	A	877	63.255	53.947	65.236	1.00	0.00	C
ATOM	1746	CE3	TRP	A	877	65.023	55.569	65.441	1.00	0.00	C
ATOM	1747	NE1	TRP	A	877	62.029	53.872	64.609	1.00	0.00	N
ATOM	1748	CZ2	TRP	A	877	63.925	53.043	66.013	1.00	0.00	C
ATOM	1749	CZ3	TRP	A	877	65.696	54.658	66.222	1.00	0.00	C
ATOM	1750	CH2	TRP	A	877	65.157	53.422	66.503	1.00	0.00	C
ATOM	1751	N	MET	A	878	64.287	58.647	66.084	1.00	0.00	N
ATOM	1752	CA	MET	A	878	64.934	58.436	67.345	1.00	0.00	C
ATOM	1753	C	MET	A	878	64.190	59.151	68.427	1.00	0.00	C

ATOM	1754	O	MET A 878	63.948	58.592	69.495	1.00	0.00	O
ATOM	1755	CB	MET A 878	66.374	58.974	67.364	1.00	0.00	C
ATOM	1756	CG	MET A 878	67.299	58.282	66.361	1.00	0.00	C
ATOM	1757	SD	MET A 878	69.012	58.897	66.357	1.00	0.00	S
ATOM	1758	CE	MET A 878	68.593	60.513	65.638	1.00	0.00	C
ATOM	1759	N	VAL A 879	63.789	60.409	68.173	1.00	0.00	N
ATOM	1760	CA	VAL A 879	63.120	61.179	69.183	1.00	0.00	C
ATOM	1761	C	VAL A 879	61.812	60.535	69.514	1.00	0.00	C
ATOM	1762	O	VAL A 879	61.426	60.465	70.679	1.00	0.00	O
ATOM	1763	CB	VAL A 879	62.843	62.597	68.779	1.00	0.00	C
ATOM	1764	CG1	VAL A 879	61.874	62.605	67.586	1.00	0.00	C
ATOM	1765	CG2	VAL A 879	62.301	63.341	70.010	1.00	0.00	C
ATOM	1766	N	ALA A 880	61.100	60.037	68.487	1.00	0.00	N
ATOM	1767	CA	ALA A 880	59.804	59.457	68.689	1.00	0.00	C
ATOM	1768	C	ALA A 880	59.940	58.267	69.581	1.00	0.00	C
ATOM	1769	O	ALA A 880	59.135	58.058	70.485	1.00	0.00	O
ATOM	1770	CB	ALA A 880	59.162	58.975	67.376	1.00	0.00	C
ATOM	1771	N	PHE A 881	60.977	57.448	69.351	1.00	0.00	N
ATOM	1772	CA	PHE A 881	61.165	56.266	70.134	1.00	0.00	C
ATOM	1773	C	PHE A 881	61.410	56.684	71.547	1.00	0.00	C
ATOM	1774	O	PHE A 881	60.846	56.116	72.482	1.00	0.00	O
ATOM	1775	CB	PHE A 881	62.384	55.451	69.665	1.00	0.00	C
ATOM	1776	CG	PHE A 881	62.527	54.239	70.515	1.00	0.00	C
ATOM	1777	CD1	PHE A 881	61.769	53.115	70.267	1.00	0.00	C
ATOM	1778	CD2	PHE A 881	63.428	54.211	71.554	1.00	0.00	C
ATOM	1779	CE1	PHE A 881	61.901	51.992	71.048	1.00	0.00	C
ATOM	1780	CE2	PHE A 881	63.564	53.090	72.338	1.00	0.00	C
ATOM	1781	CZ	PHE A 881	62.801	51.976	72.088	1.00	0.00	C
ATOM	1782	N	GLY A 882	62.249	57.719	71.733	1.00	0.00	N
ATOM	1783	CA	GLY A 882	62.616	58.150	73.045	1.00	0.00	C
ATOM	1784	C	GLY A 882	61.403	58.607	73.790	1.00	0.00	C
ATOM	1785	O	GLY A 882	61.251	58.300	74.973	1.00	0.00	O
ATOM	1786	N	VAL A 883	60.511	59.368	73.132	1.00	0.00	N
ATOM	1787	CA	VAL A 883	59.359	59.840	73.835	1.00	0.00	C
ATOM	1788	C	VAL A 883	58.515	58.668	74.217	1.00	0.00	C
ATOM	1789	O	VAL A 883	57.962	58.621	75.313	1.00	0.00	O
ATOM	1790	CB	VAL A 883	58.525	60.832	73.073	1.00	0.00	C
ATOM	1791	CG1	VAL A 883	59.376	62.088	72.836	1.00	0.00	C
ATOM	1792	CG2	VAL A 883	58.008	60.195	71.779	1.00	0.00	C
ATOM	1793	N	ALA A 884	58.406	57.672	73.321	1.00	0.00	N
ATOM	1794	CA	ALA A 884	57.581	56.532	73.601	1.00	0.00	C
ATOM	1795	C	ALA A 884	58.120	55.833	74.810	1.00	0.00	C
ATOM	1796	O	ALA A 884	57.363	55.427	75.691	1.00	0.00	O
ATOM	1797	CB	ALA A 884	57.569	55.514	72.448	1.00	0.00	C

ATOM	1798	N	ARG A 885	59.454	55.681	74.891	1.00	0.00	N
ATOM	1799	CA	ARG A 885	60.055	54.973	75.984	1.00	0.00	C
ATOM	1800	C	ARG A 885	59.788	55.703	77.257	1.00	0.00	C
ATOM	1801	O	ARG A 885	59.465	55.094	78.275	1.00	0.00	O
ATOM	1802	CB	ARG A 885	61.583	54.851	75.858	1.00	0.00	C
ATOM	1803	CG	ARG A 885	62.036	53.947	74.710	1.00	0.00	C
ATOM	1804	CD	ARG A 885	62.354	52.513	75.139	1.00	0.00	C
ATOM	1805	NE	ARG A 885	61.063	51.789	75.316	1.00	0.00	N
ATOM	1806	CZ	ARG A 885	60.473	51.736	76.548	1.00	0.00	C
ATOM	1807	NH1	ARG A 885	61.064	52.346	77.615	1.00	0.00	N
ATOM	1808	NH2	ARG A 885	59.292	51.069	76.713	1.00	0.00	N
ATOM	1809	N	GLN A 886	59.904	57.042	77.234	1.00	0.00	N
ATOM	1810	CA	GLN A 886	59.725	57.772	78.450	1.00	0.00	C
ATOM	1811	C	GLN A 886	58.327	57.548	78.919	1.00	0.00	C
ATOM	1812	O	GLN A 886	58.092	57.347	80.110	1.00	0.00	O
ATOM	1813	CB	GLN A 886	59.902	59.283	78.278	1.00	0.00	C
ATOM	1814	CG	GLN A 886	59.840	60.042	79.602	1.00	0.00	C
ATOM	1815	CD	GLN A 886	59.743	61.512	79.249	1.00	0.00	C
ATOM	1816	NE2	GLN A 886	60.057	62.405	80.226	1.00	0.00	N
ATOM	1817	OE1	GLN A 886	59.373	61.850	78.125	1.00	0.00	O
ATOM	1818	N	GLY A 887	57.360	57.565	77.984	1.00	0.00	N
ATOM	1819	CA	GLY A 887	55.988	57.403	78.362	1.00	0.00	C
ATOM	1820	C	GLY A 887	55.810	56.049	78.973	1.00	0.00	C
ATOM	1821	O	GLY A 887	55.114	55.895	79.976	1.00	0.00	O
ATOM	1822	N	ILE A 888	56.434	55.025	78.367	1.00	0.00	N
ATOM	1823	CA	ILE A 888	56.291	53.683	78.841	1.00	0.00	C
ATOM	1824	C	ILE A 888	56.887	53.555	80.207	1.00	0.00	C
ATOM	1825	O	ILE A 888	56.286	52.955	81.098	1.00	0.00	O
ATOM	1826	CB	ILE A 888	56.993	52.682	77.967	1.00	0.00	C
ATOM	1827	CG1	ILE A 888	56.372	52.664	76.562	1.00	0.00	C
ATOM	1828	CG2	ILE A 888	56.951	51.321	78.681	1.00	0.00	C
ATOM	1829	CD1	ILE A 888	54.896	52.264	76.552	1.00	0.00	C
ATOM	1830	N	LEU A 889	58.081	54.137	80.414	1.00	0.00	N
ATOM	1831	CA	LEU A 889	58.783	53.932	81.643	1.00	0.00	C
ATOM	1832	C	LEU A 889	57.986	54.440	82.800	1.00	0.00	C
ATOM	1833	O	LEU A 889	57.770	53.719	83.772	1.00	0.00	O
ATOM	1834	CB	LEU A 889	60.136	54.672	81.685	1.00	0.00	C
ATOM	1835	CG	LEU A 889	61.129	54.223	80.600	1.00	0.00	C
ATOM	1836	CD1	LEU A 889	62.455	54.994	80.703	1.00	0.00	C
ATOM	1837	CD2	LEU A 889	61.322	52.698	80.610	1.00	0.00	C
ATOM	1838	N	ARG A 890	57.504	55.693	82.726	1.00	0.00	N
ATOM	1839	CA	ARG A 890	56.798	56.224	83.851	1.00	0.00	C
ATOM	1840	C	ARG A 890	56.051	57.421	83.370	1.00	0.00	C
ATOM	1841	O	ARG A 890	56.159	57.807	82.208	1.00	0.00	O

ATOM	1842	CB	ARG	A	890	57.738	56.703	84.970	1.00	0.00	C
ATOM	1843	CG	ARG	A	890	58.687	57.812	84.508	1.00	0.00	C
ATOM	1844	CD	ARG	A	890	59.769	58.182	85.523	1.00	0.00	C
ATOM	1845	NE	ARG	A	890	60.917	57.255	85.320	1.00	0.00	N
ATOM	1846	CZ	ARG	A	890	61.024	56.118	86.068	1.00	0.00	C
ATOM	1847	NH1	ARG	A	890	60.085	55.836	87.019	1.00	0.00	N
ATOM	1848	NH2	ARG	A	890	62.074	55.268	85.870	1.00	0.00	N
ATOM	1849	N	GLN	A	891	55.250	58.038	84.259	1.00	0.00	N
ATOM	1850	CA	GLN	A	891	54.556	59.216	83.844	1.00	0.00	C
ATOM	1851	C	GLN	A	891	55.580	60.286	83.682	1.00	0.00	C
ATOM	1852	O	GLN	A	891	56.606	60.290	84.363	1.00	0.00	O
ATOM	1853	CB	GLN	A	891	53.468	59.696	84.823	1.00	0.00	C
ATOM	1854	CG	GLN	A	891	53.979	60.026	86.226	1.00	0.00	C
ATOM	1855	CD	GLN	A	891	54.028	58.722	87.004	1.00	0.00	C
ATOM	1856	NE2	GLN	A	891	53.190	57.737	86.581	1.00	0.00	N
ATOM	1857	OE1	GLN	A	891	54.784	58.580	87.964	1.00	0.00	O
ATOM	1858	N	ASN	A	892	55.339	61.211	82.736	1.00	0.00	N
ATOM	1859	CA	ASN	A	892	56.282	62.256	82.489	1.00	0.00	C
ATOM	1860	C	ASN	A	892	56.248	63.131	83.682	1.00	0.00	C
ATOM	1861	O	ASN	A	892	55.210	63.298	84.320	1.00	0.00	O
ATOM	1862	CB	ASN	A	892	55.918	63.123	81.274	1.00	0.00	C
ATOM	1863	CG	ASN	A	892	55.952	62.230	80.046	1.00	0.00	C
ATOM	1864	ND2	ASN	A	892	57.006	62.393	79.205	1.00	0.00	N
ATOM	1865	OD1	ASN	A	892	55.062	61.407	79.835	1.00	0.00	O
ATOM	1866	N	GLU	A	893	57.399	63.718	84.038	1.00	0.00	N
ATOM	1867	CA	GLU	A	893	57.314	64.543	85.195	1.00	0.00	C
ATOM	1868	C	GLU	A	893	56.791	65.875	84.743	1.00	0.00	C
ATOM	1869	O	GLU	A	893	57.518	66.610	84.059	1.00	0.00	O
ATOM	1870	CB	GLU	A	893	58.655	64.743	85.893	1.00	0.00	C
ATOM	1871	CG	GLU	A	893	58.585	65.403	87.263	1.00	0.00	C
ATOM	1872	CD	GLU	A	893	58.267	64.330	88.294	1.00	0.00	C
ATOM	1873	OE1	GLU	A	893	58.211	63.133	87.908	1.00	0.00	O
ATOM	1874	OE2	GLU	A	893	58.079	64.694	89.487	1.00	0.00	O
ATOM	1875	N	GLN	A	894	55.501	66.160	85.102	1.00	0.00	N
ATOM	1876	CA	GLN	A	894	54.770	67.362	84.783	1.00	0.00	C
ATOM	1877	C	GLN	A	894	55.387	68.498	85.519	1.00	0.00	C
ATOM	1878	O	GLN	A	894	55.613	69.570	84.957	1.00	0.00	O
ATOM	1879	CB	GLN	A	894	53.284	67.298	85.171	1.00	0.00	C
ATOM	1880	CG	GLN	A	894	53.030	67.200	86.676	1.00	0.00	C
ATOM	1881	CD	GLN	A	894	51.524	67.148	86.885	1.00	0.00	C
ATOM	1882	NE2	GLN	A	894	50.864	66.121	86.282	1.00	0.00	N
ATOM	1883	OE1	GLN	A	894	50.948	67.997	87.562	1.00	0.00	O
ATOM	1884	N	ARG	A	895	55.683	68.285	86.814	1.00	0.00	N
ATOM	1885	CA	ARG	A	895	56.305	69.333	87.557	1.00	0.00	C

ATOM 1886	C	ARG A 895	57.628	69.580	86.927	1.00	0.00	C
ATOM 1887	O	ARG A 895	58.010	70.725	86.696	1.00	0.00	O
ATOM 1888	CB	ARG A 895	56.575	68.973	89.025	1.00	0.00	C
ATOM 1889	CG	ARG A 895	55.325	68.962	89.907	1.00	0.00	C
ATOM 1890	CD	ARG A 895	54.623	70.322	89.963	1.00	0.00	C
ATOM 1891	NE	ARG A 895	53.708	70.312	91.137	1.00	0.00	N
ATOM 1892	CZ	ARG A 895	52.464	69.752	91.046	1.00	0.00	C
ATOM 1893	NH1	ARG A 895	52.069	69.137	89.894	1.00	0.00	N
ATOM 1894	NH2	ARG A 895	51.617	69.809	92.115	1.00	0.00	N
ATOM 1895	N	TRP A 896	58.364	68.496	86.612	1.00	0.00	N
ATOM 1896	CA	TRP A 896	59.663	68.707	86.052	1.00	0.00	C
ATOM 1897	C	TRP A 896	59.644	68.247	84.634	1.00	0.00	C
ATOM 1898	O	TRP A 896	60.100	67.145	84.317	1.00	0.00	O
ATOM 1899	CB	TRP A 896	60.746	67.919	86.806	1.00	0.00	C
ATOM 1900	CG	TRP A 896	61.007	68.410	88.214	1.00	0.00	C
ATOM 1901	CD1	TRP A 896	61.972	69.262	88.664	1.00	0.00	C
ATOM 1902	CD2	TRP A 896	60.233	68.036	89.367	1.00	0.00	C
ATOM 1903	CE2	TRP A 896	60.787	68.688	90.468	1.00	0.00	C
ATOM 1904	CE3	TRP A 896	59.150	67.219	89.500	1.00	0.00	C
ATOM 1905	NE1	TRP A 896	61.851	69.437	90.022	1.00	0.00	N
ATOM 1906	CZ2	TRP A 896	60.258	68.533	91.719	1.00	0.00	C
ATOM 1907	CZ3	TRP A 896	58.623	67.062	90.764	1.00	0.00	C
ATOM 1908	CH2	TRP A 896	59.168	67.704	91.854	1.00	0.00	C
ATOM 1909	N	ARG A 897	59.102	69.089	83.736	1.00	0.00	N
ATOM 1910	CA	ARG A 897	59.079	68.749	82.345	1.00	0.00	C
ATOM 1911	C	ARG A 897	60.478	68.797	81.835	1.00	0.00	C
ATOM 1912	O	ARG A 897	60.910	67.946	81.061	1.00	0.00	O
ATOM 1913	CB	ARG A 897	58.274	69.732	81.489	1.00	0.00	C
ATOM 1914	CG	ARG A 897	58.164	69.246	80.045	1.00	0.00	C
ATOM 1915	CD	ARG A 897	57.644	70.282	79.055	1.00	0.00	C
ATOM 1916	NE	ARG A 897	57.417	69.564	77.771	1.00	0.00	N
ATOM 1917	CZ	ARG A 897	57.650	70.178	76.573	1.00	0.00	C
ATOM 1918	NH1	ARG A 897	58.142	71.452	76.539	1.00	0.00	N
ATOM 1919	NH2	ARG A 897	57.393	69.513	75.408	1.00	0.00	N
ATOM 1920	N	TRP A 898	61.224	69.819	82.284	1.00	0.00	N
ATOM 1921	CA	TRP A 898	62.547	70.050	81.790	1.00	0.00	C
ATOM 1922	C	TRP A 898	63.431	68.897	82.113	1.00	0.00	C
ATOM 1923	O	TRP A 898	64.100	68.357	81.230	1.00	0.00	O
ATOM 1924	CB	TRP A 898	63.220	71.279	82.423	1.00	0.00	C
ATOM 1925	CG	TRP A 898	62.560	72.594	82.101	1.00	0.00	C
ATOM 1926	CD1	TRP A 898	61.822	73.413	82.903	1.00	0.00	C
ATOM 1927	CD2	TRP A 898	62.602	73.218	80.809	1.00	0.00	C
ATOM 1928	CE2	TRP A 898	61.876	74.404	80.901	1.00	0.00	C
ATOM 1929	CE3	TRP A 898	63.189	72.830	79.640	1.00	0.00	C

ATOM	1930	NE1 TRP A 898	61.405	74.513	82.196	1.00	0.00	N
ATOM	1931	CZ2 TRP A 898	61.729	75.225	79.823	1.00	0.00	C
ATOM	1932	CZ3 TRP A 898	63.040	73.663	78.554	1.00	0.00	C
ATOM	1933	CH2 TRP A 898	62.324	74.838	78.644	1.00	0.00	C
ATOM	1934	N ILE A 899	63.460	68.474	83.389	1.00	0.00	N
ATOM	1935	CA ILE A 899	64.403	67.453	83.736	1.00	0.00	C
ATOM	1936	C ILE A 899	64.057	66.184	83.032	1.00	0.00	C
ATOM	1937	O ILE A 899	64.930	65.534	82.460	1.00	0.00	O
ATOM	1938	CB ILE A 899	64.507	67.194	85.213	1.00	0.00	C
ATOM	1939	CG1 ILE A 899	65.702	66.277	85.518	1.00	0.00	C
ATOM	1940	CG2 ILE A 899	63.166	66.652	85.713	1.00	0.00	C
ATOM	1941	CD1 ILE A 899	66.032	66.179	87.007	1.00	0.00	C
ATOM	1942	N PHE A 900	62.767	65.802	83.035	1.00	0.00	N
ATOM	1943	CA PHE A 900	62.391	64.573	82.406	1.00	0.00	C
ATOM	1944	C PHE A 900	62.649	64.638	80.940	1.00	0.00	C
ATOM	1945	O PHE A 900	63.171	63.683	80.372	1.00	0.00	O
ATOM	1946	CB PHE A 900	60.925	64.211	82.667	1.00	0.00	C
ATOM	1947	CG PHE A 900	60.915	63.644	84.043	1.00	0.00	C
ATOM	1948	CD1 PHE A 900	61.426	64.368	85.093	1.00	0.00	C
ATOM	1949	CD2 PHE A 900	60.477	62.361	84.271	1.00	0.00	C
ATOM	1950	CE1 PHE A 900	61.427	63.854	86.368	1.00	0.00	C
ATOM	1951	CE2 PHE A 900	60.477	61.839	85.544	1.00	0.00	C
ATOM	1952	CZ PHE A 900	60.943	62.589	86.597	1.00	0.00	C
ATOM	1953	N ARG A 901	62.300	65.762	80.285	1.00	0.00	N
ATOM	1954	CA ARG A 901	62.500	65.831	78.863	1.00	0.00	C
ATOM	1955	C ARG A 901	63.960	65.708	78.571	1.00	0.00	C
ATOM	1956	O ARG A 901	64.360	64.969	77.674	1.00	0.00	O
ATOM	1957	CB ARG A 901	62.025	67.148	78.226	1.00	0.00	C
ATOM	1958	CG ARG A 901	62.131	67.126	76.696	1.00	0.00	C
ATOM	1959	CD ARG A 901	61.668	68.412	76.012	1.00	0.00	C
ATOM	1960	NE ARG A 901	62.867	69.271	75.807	1.00	0.00	N
ATOM	1961	CZ ARG A 901	63.234	70.173	76.762	1.00	0.00	C
ATOM	1962	NH1 ARG A 901	62.492	70.299	77.903	1.00	0.00	N
ATOM	1963	NH2 ARG A 901	64.343	70.948	76.579	1.00	0.00	N
ATOM	1964	N SER A 902	64.800	66.426	79.340	1.00	0.00	N
ATOM	1965	CA SER A 902	66.212	66.399	79.081	1.00	0.00	C
ATOM	1966	C SER A 902	66.693	65.002	79.283	1.00	0.00	C
ATOM	1967	O SER A 902	67.505	64.496	78.511	1.00	0.00	O
ATOM	1968	CB SER A 902	67.005	67.314	80.037	1.00	0.00	C
ATOM	1969	OG SER A 902	66.889	66.849	81.375	1.00	0.00	O
ATOM	1970	N VAL A 903	66.172	64.334	80.324	1.00	0.00	N
ATOM	1971	CA VAL A 903	66.587	62.998	80.622	1.00	0.00	C
ATOM	1972	C VAL A 903	66.203	62.130	79.471	1.00	0.00	C
ATOM	1973	O VAL A 903	66.927	61.201	79.119	1.00	0.00	O

ATOM 1974 CB VAL A 903	65.930	62.437	81.849	1.00	0.00	C
ATOM 1975 CG1 VAL A 903	66.294	60.947	81.964	1.00	0.00	C
ATOM 1976 CG2 VAL A 903	66.370	63.274	83.060	1.00	0.00	C
ATOM 1977 N ILE A 904	65.039	62.411	78.856	1.00	0.00	N
ATOM 1978 CA ILE A 904	64.578	61.588	77.781	1.00	0.00	C
ATOM 1979 C ILE A 904	65.558	61.698	76.659	1.00	0.00	C
ATOM 1980 O ILE A 904	65.925	60.707	76.033	1.00	0.00	O
ATOM 1981 CB ILE A 904	63.363	62.129	77.086	1.00	0.00	C
ATOM 1982 CG1 ILE A 904	62.266	62.605	78.031	1.00	0.00	C
ATOM 1983 CG2 ILE A 904	62.866	61.020	76.147	1.00	0.00	C
ATOM 1984 CD1 ILE A 904	61.324	63.574	77.316	1.00	0.00	C
ATOM 1985 N TYR A 905	65.930	62.945	76.312	1.00	0.00	N
ATOM 1986 CA TYR A 905	66.768	63.154	75.169	1.00	0.00	C
ATOM 1987 C TYR A 905	68.210	62.766	75.326	1.00	0.00	C
ATOM 1988 O TYR A 905	68.711	61.928	74.579	1.00	0.00	O
ATOM 1989 CB TYR A 905	66.752	64.616	74.694	1.00	0.00	C
ATOM 1990 CG TYR A 905	65.416	64.868	74.086	1.00	0.00	C
ATOM 1991 CD1 TYR A 905	64.307	65.081	74.870	1.00	0.00	C
ATOM 1992 CD2 TYR A 905	65.283	64.892	72.716	1.00	0.00	C
ATOM 1993 CE1 TYR A 905	63.079	65.307	74.291	1.00	0.00	C
ATOM 1994 CE2 TYR A 905	64.059	65.120	72.136	1.00	0.00	C
ATOM 1995 CZ TYR A 905	62.955	65.328	72.924	1.00	0.00	C
ATOM 1996 OH TYR A 905	61.696	65.560	72.329	1.00	0.00	O
ATOM 1997 N GLU A 906	68.912	63.323	76.329	1.00	0.00	N
ATOM 1998 CA GLU A 906	70.344	63.189	76.302	1.00	0.00	C
ATOM 1999 C GLU A 906	70.841	61.795	76.516	1.00	0.00	C
ATOM 2000 O GLU A 906	71.657	61.325	75.727	1.00	0.00	O
ATOM 2001 CB GLU A 906	71.069	64.123	77.288	1.00	0.00	C
ATOM 2002 CG GLU A 906	72.585	64.111	77.092	1.00	0.00	C
ATOM 2003 CD GLU A 906	72.865	64.682	75.710	1.00	0.00	C
ATOM 2004 OE1 GLU A 906	72.271	65.744	75.379	1.00	0.00	O
ATOM 2005 OE2 GLU A 906	73.668	64.061	74.964	1.00	0.00	O
ATOM 2006 N PRO A 907	70.414	61.093	77.523	1.00	0.00	N
ATOM 2007 CA PRO A 907	70.963	59.780	77.699	1.00	0.00	C
ATOM 2008 C PRO A 907	70.513	58.857	76.620	1.00	0.00	C
ATOM 2009 O PRO A 907	71.237	57.917	76.297	1.00	0.00	O
ATOM 2010 CB PRO A 907	70.565	59.347	79.108	1.00	0.00	C
ATOM 2011 CG PRO A 907	70.455	60.679	79.871	1.00	0.00	C
ATOM 2012 CD PRO A 907	70.060	61.705	78.798	1.00	0.00	C
ATOM 2013 N TYR A 908	69.308	59.093	76.075	1.00	0.00	N
ATOM 2014 CA TYR A 908	68.766	58.246	75.057	1.00	0.00	C
ATOM 2015 C TYR A 908	69.526	58.365	73.783	1.00	0.00	C
ATOM 2016 O TYR A 908	69.726	57.371	73.086	1.00	0.00	O
ATOM 2017 CB TYR A 908	67.253	58.419	74.851	1.00	0.00	C

ATOM	2018	CG	TYR	A	908	66.647	57.674	75.997	1.00	0.00	C
ATOM	2019	CD1	TYR	A	908	66.348	56.336	75.864	1.00	0.00	C
ATOM	2020	CD2	TYR	A	908	66.400	58.282	77.206	1.00	0.00	C
ATOM	2021	CE1	TYR	A	908	65.800	55.627	76.905	1.00	0.00	C
ATOM	2022	CE2	TYR	A	908	65.850	57.584	78.253	1.00	0.00	C
ATOM	2023	CZ	TYR	A	908	65.547	56.253	78.102	1.00	0.00	C
ATOM	2024	OH	TYR	A	908	64.982	55.528	79.172	1.00	0.00	O
ATOM	2025	N	LEU	A	909	69.946	59.580	73.391	1.00	0.00	N
ATOM	2026	CA	LEU	A	909	70.747	59.597	72.206	1.00	0.00	C
ATOM	2027	C	LEU	A	909	72.014	58.859	72.511	1.00	0.00	C
ATOM	2028	O	LEU	A	909	72.504	58.084	71.692	1.00	0.00	O
ATOM	2029	CB	LEU	A	909	71.120	61.007	71.707	1.00	0.00	C
ATOM	2030	CG	LEU	A	909	69.986	61.735	70.959	1.00	0.00	C
ATOM	2031	CD1	LEU	A	909	69.634	60.998	69.657	1.00	0.00	C
ATOM	2032	CD2	LEU	A	909	68.758	61.982	71.843	1.00	0.00	C
ATOM	2033	N	ALA	A	910	72.570	59.088	73.718	1.00	0.00	N
ATOM	2034	CA	ALA	A	910	73.837	58.530	74.098	1.00	0.00	C
ATOM	2035	C	ALA	A	910	73.841	57.028	74.201	1.00	0.00	C
ATOM	2036	O	ALA	A	910	74.701	56.380	73.608	1.00	0.00	O
ATOM	2037	CB	ALA	A	910	74.326	59.081	75.449	1.00	0.00	C
ATOM	2038	N	MET	A	911	72.881	56.411	74.925	1.00	0.00	N
ATOM	2039	CA	MET	A	911	72.994	54.984	75.093	1.00	0.00	C
ATOM	2040	C	MET	A	911	71.661	54.448	75.475	1.00	0.00	C
ATOM	2041	O	MET	A	911	70.627	55.054	75.211	1.00	0.00	O
ATOM	2042	CB	MET	A	911	73.921	54.535	76.238	1.00	0.00	C
ATOM	2043	CG	MET	A	911	75.400	54.901	76.097	1.00	0.00	C
ATOM	2044	SD	MET	A	911	75.816	56.617	76.520	1.00	0.00	S
ATOM	2045	CE	MET	A	911	77.605	56.318	76.600	1.00	0.00	C
ATOM	2046	N	PHE	A	912	71.650	53.240	76.074	1.00	0.00	N
ATOM	2047	CA	PHE	A	912	70.382	52.741	76.494	1.00	0.00	C
ATOM	2048	C	PHE	A	912	70.565	52.095	77.827	1.00	0.00	C
ATOM	2049	O	PHE	A	912	71.387	51.191	77.972	1.00	0.00	O
ATOM	2050	CB	PHE	A	912	69.811	51.724	75.497	1.00	0.00	C
ATOM	2051	CG	PHE	A	912	69.742	52.479	74.213	1.00	0.00	C
ATOM	2052	CD1	PHE	A	912	70.842	52.533	73.385	1.00	0.00	C
ATOM	2053	CD2	PHE	A	912	68.603	53.155	73.846	1.00	0.00	C
ATOM	2054	CE1	PHE	A	912	70.802	53.234	72.205	1.00	0.00	C
ATOM	2055	CE2	PHE	A	912	68.557	53.857	72.666	1.00	0.00	C
ATOM	2056	CZ	PHE	A	912	69.656	53.896	71.844	1.00	0.00	C
ATOM	2057	N	GLY	A	913	69.813	52.545	78.856	1.00	0.00	N
ATOM	2058	CA	GLY	A	913	68.909	53.664	78.790	1.00	0.00	C
ATOM	2059	C	GLY	A	913	69.322	54.658	79.842	1.00	0.00	C
ATOM	2060	O	GLY	A	913	70.503	54.938	80.037	1.00	0.00	O
ATOM	2061	N	GLN	A	914	68.322	55.226	80.553	1.00	0.00	N

ATOM	2062	CA	GLN A 914	68.553	56.168	81.617	1.00	0.00	C
ATOM	2063	C	GLN A 914	68.896	55.384	82.841	1.00	0.00	C
ATOM	2064	O	GLN A 914	68.759	54.161	82.840	1.00	0.00	O
ATOM	2065	CB	GLN A 914	67.320	57.036	81.931	1.00	0.00	C
ATOM	2066	CG	GLN A 914	67.484	57.959	83.139	1.00	0.00	C
ATOM	2067	CD	GLN A 914	68.624	58.923	82.862	1.00	0.00	C
ATOM	2068	NE2	GLN A 914	69.023	59.700	83.904	1.00	0.00	N
ATOM	2069	OE1	GLN A 914	69.149	58.982	81.750	1.00	0.00	O
ATOM	2070	N	VAL A 915	69.434	56.061	83.884	1.00	0.00	N
ATOM	2071	CA	VAL A 915	69.710	55.414	85.137	1.00	0.00	C
ATOM	2072	C	VAL A 915	69.042	56.170	86.256	1.00	0.00	C
ATOM	2073	O	VAL A 915	69.568	57.148	86.780	1.00	0.00	O
ATOM	2074	CB	VAL A 915	71.180	55.314	85.441	1.00	0.00	C
ATOM	2075	CG1	VAL A 915	71.805	54.273	84.498	1.00	0.00	C
ATOM	2076	CG2	VAL A 915	71.812	56.703	85.270	1.00	0.00	C
ATOM	2077	N	PRO A 916	66.931	55.747	85.474	1.00	0.00	N
ATOM	2078	CA	PRO A 916	66.313	56.429	86.580	1.00	0.00	C
ATOM	2079	C	PRO A 916	66.981	55.990	87.840	1.00	0.00	C
ATOM	2080	O	PRO A 916	67.561	54.906	87.862	1.00	0.00	O
ATOM	2081	CB	PRO A 916	64.831	56.079	86.514	1.00	0.00	C
ATOM	2082	CG	PRO A 916	64.587	55.819	85.017	1.00	0.00	C
ATOM	2083	CD	PRO A 916	65.947	55.308	84.498	1.00	0.00	C
ATOM	2084	N	SER A 917	66.922	56.811	88.900	1.00	0.00	N
ATOM	2085	CA	SER A 917	67.543	56.387	90.116	1.00	0.00	C
ATOM	2086	C	SER A 917	66.763	55.206	90.585	1.00	0.00	C
ATOM	2087	O	SER A 917	65.647	54.965	90.127	1.00	0.00	O
ATOM	2088	CB	SER A 917	67.521	57.445	91.232	1.00	0.00	C
ATOM	2089	OG	SER A 917	68.305	58.563	90.848	1.00	0.00	O
ATOM	2090	N	ASP A 918	67.334	54.443	91.533	1.00	0.00	N
ATOM	2091	CA	ASP A 918	66.710	53.225	91.966	1.00	0.00	C
ATOM	2092	C	ASP A 918	65.327	53.513	92.445	1.00	0.00	C
ATOM	2093	O	ASP A 918	65.029	54.588	92.961	1.00	0.00	O
ATOM	2094	CB	ASP A 918	67.469	52.503	93.093	1.00	0.00	C
ATOM	2095	CG	ASP A 918	68.725	51.887	92.493	1.00	0.00	C
ATOM	2096	OD1	ASP A 918	68.838	51.869	91.240	1.00	0.00	O
ATOM	2097	OD2	ASP A 918	69.589	51.423	93.281	1.00	0.00	O
ATOM	2098	N	VAL A 919	64.436	52.518	92.260	1.00	0.00	N
ATOM	2099	CA	VAL A 919	63.056	52.678	92.594	1.00	0.00	C
ATOM	2100	C	VAL A 919	62.885	52.483	94.060	1.00	0.00	C
ATOM	2101	O	VAL A 919	63.113	51.404	94.604	1.00	0.00	O
ATOM	2102	CB	VAL A 919	62.163	51.720	91.854	1.00	0.00	C
ATOM	2103	CG1	VAL A 919	62.612	50.279	92.154	1.00	0.00	C
ATOM	2104	CG2	VAL A 919	60.708	52.013	92.246	1.00	0.00	C
ATOM	2105	N	ASP A 920	62.476	53.568	94.740	1.00	0.00	N

ATOM	2106	CA	ASP A 920	62.244	53.485	96.147	1.00	0.00	C
ATOM	2107	C	ASP A 920	60.823	53.086	96.299	1.00	0.00	C
ATOM	2108	O	ASP A 920	59.917	53.912	96.187	1.00	0.00	O
ATOM	2109	CB	ASP A 920	62.402	54.824	96.882	1.00	0.00	C
ATOM	2110	CG	ASP A 920	62.126	54.573	98.357	1.00	0.00	C
ATOM	2111	OD1	ASP A 920	62.113	53.378	98.758	1.00	0.00	O
ATOM	2112	OD2	ASP A 920	61.918	55.567	99.099	1.00	0.00	O
ATOM	2113	N	GLY A 921	60.585	51.793	96.550	1.00	0.00	N
ATOM	2114	CA	GLY A 921	59.228	51.413	96.733	1.00	0.00	C
ATOM	2115	C	GLY A 921	58.868	51.996	98.050	1.00	0.00	C
ATOM	2116	O	GLY A 921	59.725	52.499	98.773	1.00	0.00	O
ATOM	2117	N	THR A 922	57.576	51.988	98.389	1.00	0.00	N
ATOM	2118	CA	THR A 922	57.229	52.467	99.684	1.00	0.00	C
ATOM	2119	C	THR A 922	57.833	51.474	100.618	1.00	0.00	C
ATOM	2120	O	THR A 922	58.192	51.791	101.751	1.00	0.00	O
ATOM	2121	CB	THR A 922	55.752	52.503	99.932	1.00	0.00	C
ATOM	2122	CG2	THR A 922	55.215	51.064	99.973	1.00	0.00	C
ATOM	2123	OG1	THR A 922	55.479	53.167	101.157	1.00	0.00	O
ATOM	2124	N	THR A 923	57.951	50.227	100.123	1.00	0.00	N
ATOM	2125	CA	THR A 923	58.413	49.091	100.863	1.00	0.00	C
ATOM	2126	C	THR A 923	59.876	49.226	101.137	1.00	0.00	C
ATOM	2127	O	THR A 923	60.589	49.966	100.462	1.00	0.00	O
ATOM	2128	CB	THR A 923	58.201	47.816	100.100	1.00	0.00	C
ATOM	2129	CG2	THR A 923	58.630	46.616	100.963	1.00	0.00	C
ATOM	2130	OG1	THR A 923	56.832	47.689	99.757	1.00	0.00	O
ATOM	2131	N	TYR A 924	60.355	48.494	102.163	1.00	0.00	N
ATOM	2132	CA	TYR A 924	61.742	48.524	102.512	1.00	0.00	C
ATOM	2133	C	TYR A 924	62.303	47.223	102.052	1.00	0.00	C
ATOM	2134	O	TYR A 924	61.862	46.154	102.471	1.00	0.00	O
ATOM	2135	CB	TYR A 924	61.996	48.609	104.029	1.00	0.00	C
ATOM	2136	CG	TYR A 924	61.404	49.882	104.526	1.00	0.00	C
ATOM	2137	CD1	TYR A 924	60.067	49.942	104.847	1.00	0.00	C
ATOM	2138	CD2	TYR A 924	62.175	51.012	104.673	1.00	0.00	C
ATOM	2139	CE1	TYR A 924	59.508	51.110	105.309	1.00	0.00	C
ATOM	2140	CE2	TYR A 924	61.621	52.183	105.134	1.00	0.00	C
ATOM	2141	CZ	TYR A 924	60.285	52.235	105.452	1.00	0.00	C
ATOM	2142	OH	TYR A 924	59.714	53.435	105.925	1.00	0.00	O
ATOM	2143	N	ASP A 925	63.283	47.305	101.140	1.00	0.00	N
ATOM	2144	CA	ASP A 925	63.902	46.151	100.580	1.00	0.00	C
ATOM	2145	C	ASP A 925	64.891	45.666	101.583	1.00	0.00	C
ATOM	2146	O	ASP A 925	65.212	46.368	102.541	1.00	0.00	O
ATOM	2147	CB	ASP A 925	64.679	46.490	99.295	1.00	0.00	C
ATOM	2148	CG	ASP A 925	65.153	45.220	98.610	1.00	0.00	C
ATOM	2149	OD1	ASP A 925	64.603	44.131	98.918	1.00	0.00	O

ATOM	2150	OD2 ASP A 925	66.075	45.323	97.760	1.00	0.00	O
ATOM	2151	N PHE A 926	65.367	44.423	101.401	1.00	0.00	N
ATOM	2152	CA PHE A 926	66.409	43.944	102.241	1.00	0.00	C
ATOM	2153	C PHE A 926	67.639	44.541	101.658	1.00	0.00	C
ATOM	2154	O PHE A 926	67.698	44.808	100.460	1.00	0.00	O
ATOM	2155	CB PHE A 926	66.529	42.409	102.279	1.00	0.00	C
ATOM	2156	CG PHE A 926	66.775	41.910	100.898	1.00	0.00	C
ATOM	2157	CD1 PHE A 926	65.754	41.882	99.978	1.00	0.00	C
ATOM	2158	CD2 PHE A 926	68.016	41.443	100.529	1.00	0.00	C
ATOM	2159	CE1 PHE A 926	65.967	41.413	98.702	1.00	0.00	C
ATOM	2160	CE2 PHE A 926	68.236	40.973	99.255	1.00	0.00	C
ATOM	2161	CZ PHE A 926	67.212	40.960	98.338	1.00	0.00	C
ATOM	2162	N ALA A 927	68.654	44.799	102.497	1.00	0.00	N
ATOM	2163	CA ALA A 927	69.819	45.448	101.984	1.00	0.00	C
ATOM	2164	C ALA A 927	70.430	44.557	100.959	1.00	0.00	C
ATOM	2165	O ALA A 927	70.262	43.339	100.989	1.00	0.00	O
ATOM	2166	CB ALA A 927	70.885	45.738	103.054	1.00	0.00	C
HETATM	2167	N HIE A 928	71.135	45.161	99.992	1.00	0.00	N
HETATM	2168	CA HIE A 928	71.729	44.342	98.993	1.00	0.00	C
HETATM	2169	C HIE A 928	73.010	43.833	99.545	1.00	0.00	C
HETATM	2170	O HIE A 928	73.722	44.544	100.253	1.00	0.00	O
HETATM	2171	CB HIE A 928	72.022	45.076	97.673	1.00	0.00	C
HETATM	2172	CG HIE A 928	72.499	44.137	96.611	1.00	0.00	C
HETATM	2173	CD2 HIE A 928	73.650	44.137	95.884	1.00	0.00	C
HETATM	2174	ND1 HIE A 928	71.776	43.052	96.178	1.00	0.00	N
HETATM	2175	CE1 HIE A 928	72.522	42.445	95.216	1.00	0.00	C
HETATM	2176	NE2 HIE A 928	73.665	43.070	95.003	1.00	0.00	N
ATOM	2177	N CYS A 929	73.332	42.562	99.249	1.00	0.00	N
ATOM	2178	CA CYS A 929	74.562	42.042	99.748	1.00	0.00	C
ATOM	2179	C CYS A 929	75.641	42.805	99.060	1.00	0.00	C
ATOM	2180	O CYS A 929	75.545	43.109	97.872	1.00	0.00	O
ATOM	2181	CB CYS A 929	74.745	40.533	99.492	1.00	0.00	C
ATOM	2182	SG CYS A 929	74.569	40.089	97.742	1.00	0.00	S
ATOM	2183	N THR A 930	76.702	43.150	99.809	1.00	0.00	N
ATOM	2184	CA THR A 930	77.725	43.987	99.263	1.00	0.00	C
ATOM	2185	C THR A 930	78.356	43.308	98.092	1.00	0.00	C
ATOM	2186	O THR A 930	78.524	43.922	97.039	1.00	0.00	O
ATOM	2187	CB THR A 930	78.790	44.345	100.260	1.00	0.00	C
ATOM	2188	CG2 THR A 930	79.538	43.076	100.708	1.00	0.00	C
ATOM	2189	OG1 THR A 930	79.692	45.281	99.690	1.00	0.00	O
ATOM	2190	N PHE A 931	78.705	42.016	98.224	1.00	0.00	N
ATOM	2191	CA PHE A 931	79.303	41.358	97.107	1.00	0.00	C
ATOM	2192	C PHE A 931	78.190	41.114	96.149	1.00	0.00	C
ATOM	2193	O PHE A 931	77.054	40.884	96.559	1.00	0.00	O

ATOM	2194	CB	PHE A 931	79.950	40.012	97.477	1.00	0.00	C
ATOM	2195	CG	PHE A 931	81.023	40.330	98.459	1.00	0.00	C
ATOM	2196	CD1	PHE A 931	80.719	40.491	99.789	1.00	0.00	C
ATOM	2197	CD2	PHE A 931	82.331	40.476	98.054	1.00	0.00	C
ATOM	2198	CE1	PHE A 931	81.700	40.791	100.708	1.00	0.00	C
ATOM	2199	CE2	PHE A 931	83.315	40.775	98.969	1.00	0.00	C
ATOM	2200	CZ	PHE A 931	83.003	40.932	100.296	1.00	0.00	C
ATOM	2201	N	THR A 932	78.475	41.190	94.839	1.00	0.00	N
ATOM	2202	CA	THR A 932	77.417	40.997	93.892	1.00	0.00	C
ATOM	2203	C	THR A 932	77.320	39.536	93.607	1.00	0.00	C
ATOM	2204	O	THR A 932	77.956	38.722	94.277	1.00	0.00	O
ATOM	2205	CB	THR A 932	77.632	41.724	92.594	1.00	0.00	C
ATOM	2206	CG2	THR A 932	77.741	43.230	92.888	1.00	0.00	C
ATOM	2207	OG1	THR A 932	78.807	41.260	91.953	1.00	0.00	O
ATOM	2208	N	GLY A 933	76.478	39.168	92.623	1.00	0.00	N
ATOM	2209	CA	GLY A 933	76.312	37.790	92.264	1.00	0.00	C
ATOM	2210	C	GLY A 933	76.078	37.741	90.787	1.00	0.00	C
ATOM	2211	O	GLY A 933	75.633	38.719	90.189	1.00	0.00	O
ATOM	2212	N	ASN A 934	76.380	36.584	90.160	1.00	0.00	N
ATOM	2213	CA	ASN A 934	76.255	36.477	88.735	1.00	0.00	C
ATOM	2214	C	ASN A 934	74.823	36.652	88.328	1.00	0.00	C
ATOM	2215	O	ASN A 934	74.497	37.553	87.556	1.00	0.00	O
ATOM	2216	CB	ASN A 934	76.713	35.104	88.210	1.00	0.00	C
ATOM	2217	CG	ASN A 934	76.797	35.165	86.690	1.00	0.00	C
ATOM	2218	ND2	ASN A 934	75.715	35.685	86.049	1.00	0.00	N
ATOM	2219	OD1	ASN A 934	77.787	34.754	86.088	1.00	0.00	O
ATOM	2220	N	GLU A 935	73.912	35.822	88.868	1.00	0.00	N
ATOM	2221	CA	GLU A 935	72.547	35.958	88.454	1.00	0.00	C
ATOM	2222	C	GLU A 935	71.777	36.391	89.649	1.00	0.00	C
ATOM	2223	O	GLU A 935	72.148	36.081	90.780	1.00	0.00	O
ATOM	2224	CB	GLU A 935	71.907	34.660	87.940	1.00	0.00	C
ATOM	2225	CG	GLU A 935	70.496	34.889	87.390	1.00	0.00	C
ATOM	2226	CD	GLU A 935	69.961	33.556	86.889	1.00	0.00	C
ATOM	2227	OE1	GLU A 935	70.763	32.780	86.302	1.00	0.00	O
ATOM	2228	OE2	GLU A 935	68.747	33.298	87.087	1.00	0.00	O
ATOM	2229	N	SER A 936	70.687	37.145	89.426	1.00	0.00	N
ATOM	2230	CA	SER A 936	69.951	37.612	90.558	1.00	0.00	C
ATOM	2231	C	SER A 936	68.496	37.501	90.254	1.00	0.00	C
ATOM	2232	O	SER A 936	68.094	37.356	89.099	1.00	0.00	O
ATOM	2233	CB	SER A 936	70.241	39.085	90.890	1.00	0.00	C
ATOM	2234	OG	SER A 936	69.489	39.498	92.021	1.00	0.00	O
ATOM	2235	N	LYS A 937	67.663	37.516	91.314	1.00	0.00	N
ATOM	2236	CA	LYS A 937	66.248	37.499	91.098	1.00	0.00	C
ATOM	2237	C	LYS A 937	65.671	38.593	91.945	1.00	0.00	C

ATOM	2238	O	LYS A 937	65.421	38.436	93.138	1.00	0.00	O
ATOM	2239	CB	LYS A 937	65.591	36.170	91.502	1.00	0.00	C
ATOM	2240	CG	LYS A 937	66.047	34.999	90.628	1.00	0.00	C
ATOM	2241	CD	LYS A 937	65.738	35.189	89.143	1.00	0.00	C
ATOM	2242	CE	LYS A 937	66.183	34.017	88.262	1.00	0.00	C
ATOM	2243	NZ	LYS A 937	65.843	34.287	86.848	1.00	0.00	NI+
ATOM	2244	N	PRO A 938	65.462	39.711	91.313	1.00	0.00	N
ATOM	2245	CA	PRO A 938	64.900	40.868	91.958	1.00	0.00	C
ATOM	2246	C	PRO A 938	63.416	40.724	92.053	1.00	0.00	C
ATOM	2247	O	PRO A 938	62.887	39.702	91.626	1.00	0.00	O
ATOM	2248	CB	PRO A 938	65.340	42.080	91.129	1.00	0.00	C
ATOM	2249	CG	PRO A 938	65.850	41.487	89.808	1.00	0.00	C
ATOM	2250	CD	PRO A 938	66.323	40.081	90.203	1.00	0.00	C
ATOM	2251	N	LEU A 939	62.728	41.737	92.609	1.00	0.00	N
ATOM	2252	CA	LEU A 939	61.311	41.659	92.802	1.00	0.00	C
ATOM	2253	C	LEU A 939	60.628	41.603	91.477	1.00	0.00	C
ATOM	2254	O	LEU A 939	60.823	42.456	90.611	1.00	0.00	O
ATOM	2255	CB	LEU A 939	60.760	42.849	93.598	1.00	0.00	C
ATOM	2256	CG	LEU A 939	61.344	42.924	95.021	1.00	0.00	C
ATOM	2257	CD1	LEU A 939	62.856	43.201	95.013	1.00	0.00	C
ATOM	2258	CD2	LEU A 939	60.579	43.937	95.871	1.00	0.00	C
ATOM	2259	N	CYS A 940	59.779	40.572	91.308	1.00	0.00	N
ATOM	2260	CA	CYS A 940	59.108	40.405	90.060	1.00	0.00	C
ATOM	2261	C	CYS A 940	58.185	41.526	89.894	1.00	0.00	C
ATOM	2262	O	CYS A 940	57.374	41.857	90.755	1.00	0.00	O
ATOM	2263	CB	CYS A 940	58.287	39.113	89.935	1.00	0.00	C
ATOM	2264	SG	CYS A 940	59.347	37.648	89.797	1.00	0.00	S
ATOM	2265	N	VAL A 941	58.305	42.155	88.735	1.00	0.00	N
ATOM	2266	CA	VAL A 941	57.435	43.242	88.526	1.00	0.00	C
ATOM	2267	C	VAL A 941	56.952	43.091	87.135	1.00	0.00	C
ATOM	2268	O	VAL A 941	57.494	42.317	86.349	1.00	0.00	O
ATOM	2269	CB	VAL A 941	58.132	44.554	88.674	1.00	0.00	C
ATOM	2270	CG1	VAL A 941	58.647	44.649	90.122	1.00	0.00	C
ATOM	2271	CG2	VAL A 941	59.246	44.637	87.619	1.00	0.00	C
ATOM	2272	N	GLU A 942	55.844	43.772	86.822	1.00	0.00	N
ATOM	2273	CA	GLU A 942	55.356	43.722	85.487	1.00	0.00	C
ATOM	2274	C	GLU A 942	56.312	44.480	84.613	1.00	0.00	C
ATOM	2275	O	GLU A 942	56.518	44.122	83.455	1.00	0.00	O
ATOM	2276	CB	GLU A 942	53.962	44.345	85.324	1.00	0.00	C
ATOM	2277	CG	GLU A 942	53.445	44.272	83.889	1.00	0.00	C
ATOM	2278	CD	GLU A 942	52.003	44.763	83.876	1.00	0.00	C
ATOM	2279	OE1	GLU A 942	51.425	44.924	84.982	1.00	0.00	O
ATOM	2280	OE2	GLU A 942	51.465	44.981	82.757	1.00	0.00	O
ATOM	2281	N	LEU A 943	56.909	45.562	85.165	1.00	0.00	N

ATOM	2282	CA	LEU A 943	57.772	46.467	84.440	1.00	0.00	C
ATOM	2283	C	LEU A 943	59.206	45.996	84.413	1.00	0.00	C
ATOM	2284	O	LEU A 943	59.513	44.912	84.902	1.00	0.00	O
ATOM	2285	CB	LEU A 943	57.719	47.907	84.972	1.00	0.00	C
ATOM	2286	CG	LEU A 943	56.349	48.562	84.720	1.00	0.00	C
ATOM	2287	CD1	LEU A 943	55.231	47.817	85.462	1.00	0.00	C
ATOM	2288	CD2	LEU A 943	56.377	50.066	85.035	1.00	0.00	C
ATOM	2289	N	ASP A 944	60.108	46.793	83.772	1.00	0.00	N
ATOM	2290	CA	ASP A 944	61.506	46.457	83.559	1.00	0.00	C
ATOM	2291	C	ASP A 944	62.455	47.306	84.398	1.00	0.00	C
ATOM	2292	O	ASP A 944	62.022	47.979	85.334	1.00	0.00	O
ATOM	2293	CB	ASP A 944	61.930	46.622	82.093	1.00	0.00	C
ATOM	2294	CG	ASP A 944	61.163	45.594	81.273	1.00	0.00	C
ATOM	2295	OD1	ASP A 944	61.092	44.412	81.710	1.00	0.00	O
ATOM	2296	OD2	ASP A 944	60.639	45.975	80.191	1.00	0.00	O
ATOM	2297	N	GLU A 945	63.795	47.248	84.102	1.00	0.00	N
ATOM	2298	CA	GLU A 945	64.814	48.008	84.811	1.00	0.00	C
ATOM	2299	C	GLU A 945	66.190	47.719	84.223	1.00	0.00	C
ATOM	2300	O	GLU A 945	66.298	47.185	83.122	1.00	0.00	O
ATOM	2301	CB	GLU A 945	64.843	47.710	86.320	1.00	0.00	C
ATOM	2302	CG	GLU A 945	65.641	48.733	87.129	1.00	0.00	C
ATOM	2303	CD	GLU A 945	65.530	48.363	88.599	1.00	0.00	C
ATOM	2304	OE1	GLU A 945	64.826	47.362	88.906	1.00	0.00	O
ATOM	2305	OE2	GLU A 945	66.142	49.074	89.439	1.00	0.00	O
HETATM	2306	N	HIE A 946	67.300	48.113	84.913	1.00	0.00	N
HETATM	2307	CA	HIE A 946	68.618	47.838	84.382	1.00	0.00	C
HETATM	2308	C	HIE A 946	69.465	47.206	85.446	1.00	0.00	C
HETATM	2309	O	HIE A 946	69.362	47.542	86.625	1.00	0.00	O
HETATM	2310	CB	HIE A 946	69.374	49.082	83.890	1.00	0.00	C
HETATM	2311	CG	HIE A 946	69.886	49.933	85.009	1.00	0.00	C
HETATM	2312	CD2	HIE A 946	71.145	50.033	85.524	1.00	0.00	C
HETATM	2313	ND1	HIE A 946	69.112	50.802	85.738	1.00	0.00	N
HETATM	2314	CE1	HIE A 946	69.930	51.385	86.653	1.00	0.00	C
HETATM	2315	NE2	HIE A 946	71.173	50.950	86.560	1.00	0.00	N
ATOM	2316	N	ASN A 947	70.341	46.260	85.047	1.00	0.00	N
ATOM	2317	CA	ASN A 947	71.172	45.583	86.005	1.00	0.00	C
ATOM	2318	C	ASN A 947	72.486	45.275	85.367	1.00	0.00	C
ATOM	2319	O	ASN A 947	72.818	45.765	84.292	1.00	0.00	O
ATOM	2320	CB	ASN A 947	70.593	44.238	86.483	1.00	0.00	C
ATOM	2321	CG	ASN A 947	69.358	44.515	87.331	1.00	0.00	C
ATOM	2322	ND2	ASN A 947	68.288	43.699	87.126	1.00	0.00	N
ATOM	2323	OD1	ASN A 947	69.341	45.428	88.151	1.00	0.00	O
ATOM	2324	N	LEU A 948	73.285	44.456	86.074	1.00	0.00	N
ATOM	2325	CA	LEU A 948	74.572	44.011	85.627	1.00	0.00	C

ATOM	2326	C	LEU A 948	74.373	43.171	84.394	1.00	0.00	C
ATOM	2327	O	LEU A 948	75.165	43.279	83.455	1.00	0.00	O
ATOM	2328	CB	LEU A 948	75.266	43.121	86.672	1.00	0.00	C
ATOM	2329	CG	LEU A 948	75.461	43.796	88.040	1.00	0.00	C
ATOM	2330	CD1	LEU A 948	76.158	42.844	89.017	1.00	0.00	C
ATOM	2331	CD2	LEU A 948	76.200	45.138	87.916	1.00	0.00	C
ATOM	2332	N	PRO A 949	73.357	42.339	84.343	1.00	0.00	N
ATOM	2333	CA	PRO A 949	73.174	41.529	83.169	1.00	0.00	C
ATOM	2334	C	PRO A 949	72.745	42.351	82.005	1.00	0.00	C
ATOM	2335	O	PRO A 949	72.250	43.460	82.203	1.00	0.00	O
ATOM	2336	CB	PRO A 949	72.168	40.446	83.551	1.00	0.00	C
ATOM	2337	CG	PRO A 949	72.396	40.264	85.061	1.00	0.00	C
ATOM	2338	CD	PRO A 949	72.886	41.643	85.536	1.00	0.00	C
ATOM	2339	N	ARG A 950	72.947	41.826	80.779	1.00	0.00	N
ATOM	2340	CA	ARG A 950	72.599	42.556	79.600	1.00	0.00	C
ATOM	2341	C	ARG A 950	71.257	42.096	79.127	1.00	0.00	C
ATOM	2342	O	ARG A 950	71.141	41.150	78.346	1.00	0.00	O
ATOM	2343	CB	ARG A 950	73.601	42.314	78.465	1.00	0.00	C
ATOM	2344	CG	ARG A 950	73.184	42.901	77.117	1.00	0.00	C
ATOM	2345	CD	ARG A 950	74.217	42.635	76.020	1.00	0.00	C
ATOM	2346	NE	ARG A 950	73.576	42.968	74.716	1.00	0.00	N
ATOM	2347	CZ	ARG A 950	73.543	44.260	74.286	1.00	0.00	C
ATOM	2348	NH1	ARG A 950	74.053	45.254	75.071	1.00	0.00	N
ATOM	2349	NH2	ARG A 950	72.997	44.560	73.073	1.00	0.00	N
ATOM	2350	N	PHE A 951	70.206	42.773	79.618	1.00	0.00	N
ATOM	2351	CA	PHE A 951	68.841	42.564	79.231	1.00	0.00	C
ATOM	2352	C	PHE A 951	68.666	43.056	77.816	1.00	0.00	C
ATOM	2353	O	PHE A 951	67.979	42.419	77.017	1.00	0.00	O
ATOM	2354	CB	PHE A 951	67.858	43.354	80.112	1.00	0.00	C
ATOM	2355	CG	PHE A 951	68.066	42.911	81.518	1.00	0.00	C
ATOM	2356	CD1	PHE A 951	67.418	41.805	82.011	1.00	0.00	C
ATOM	2357	CD2	PHE A 951	68.922	43.612	82.340	1.00	0.00	C
ATOM	2358	CE1	PHE A 951	67.620	41.404	83.312	1.00	0.00	C
ATOM	2359	CE2	PHE A 951	69.127	43.210	83.640	1.00	0.00	C
ATOM	2360	CZ	PHE A 951	68.474	42.106	84.127	1.00	0.00	C
ATOM	2361	N	PRO A 952	69.273	44.168	77.466	1.00	0.00	N
ATOM	2362	CA	PRO A 952	69.113	44.670	76.129	1.00	0.00	C
ATOM	2363	C	PRO A 952	69.694	43.751	75.113	1.00	0.00	C
ATOM	2364	O	PRO A 952	69.585	44.040	73.924	1.00	0.00	O
ATOM	2365	CB	PRO A 952	69.710	46.075	76.130	1.00	0.00	C
ATOM	2366	CG	PRO A 952	69.455	46.560	77.564	1.00	0.00	C
ATOM	2367	CD	PRO A 952	69.454	45.273	78.405	1.00	0.00	C
ATOM	2368	N	GLU A 953	70.339	42.658	75.535	1.00	0.00	N
ATOM	2369	CA	GLU A 953	70.871	41.768	74.549	1.00	0.00	C

ATOM	2370	C	GLU A 953	69.713	41.262	73.742	1.00	0.00	C
ATOM	2371	O	GLU A 953	69.814	41.119	72.527	1.00	0.00	O
ATOM	2372	CB	GLU A 953	71.588	40.556	75.163	1.00	0.00	C
ATOM	2373	CG	GLU A 953	72.403	39.743	74.151	1.00	0.00	C
ATOM	2374	CD	GLU A 953	71.447	38.926	73.294	1.00	0.00	C
ATOM	2375	OE1	GLU A 953	70.580	38.220	73.878	1.00	0.00	O
ATOM	2376	OE2	GLU A 953	71.565	39.002	72.042	1.00	0.00	O
ATOM	2377	N	TRP A 954	68.573	40.978	74.404	1.00	0.00	N
ATOM	2378	CA	TRP A 954	67.413	40.442	73.749	1.00	0.00	C
ATOM	2379	C	TRP A 954	66.862	41.403	72.739	1.00	0.00	C
ATOM	2380	O	TRP A 954	66.512	41.010	71.628	1.00	0.00	O
ATOM	2381	CB	TRP A 954	66.270	40.115	74.727	1.00	0.00	C
ATOM	2382	CG	TRP A 954	64.975	39.752	74.041	1.00	0.00	C
ATOM	2383	CD1	TRP A 954	63.858	40.512	73.858	1.00	0.00	C
ATOM	2384	CD2	TRP A 954	64.715	38.490	73.402	1.00	0.00	C
ATOM	2385	CE2	TRP A 954	63.431	38.560	72.863	1.00	0.00	C
ATOM	2386	CE3	TRP A 954	65.485	37.372	73.272	1.00	0.00	C
ATOM	2387	NE1	TRP A 954	62.914	39.805	73.153	1.00	0.00	N
ATOM	2388	CZ2	TRP A 954	62.893	37.507	72.182	1.00	0.00	C
ATOM	2389	CZ3	TRP A 954	64.939	36.307	72.589	1.00	0.00	C
ATOM	2390	CH2	TRP A 954	63.668	36.375	72.054	1.00	0.00	C
ATOM	2391	N	ILE A 955	66.800	42.700	73.088	1.00	0.00	N
ATOM	2392	CA	ILE A 955	66.193	43.694	72.248	1.00	0.00	C
ATOM	2393	C	ILE A 955	66.921	43.750	70.946	1.00	0.00	C
ATOM	2394	O	ILE A 955	66.346	44.111	69.923	1.00	0.00	O
ATOM	2395	CB	ILE A 955	66.187	45.085	72.820	1.00	0.00	C
ATOM	2396	CG1	ILE A 955	67.607	45.656	72.947	1.00	0.00	C
ATOM	2397	CG2	ILE A 955	65.416	45.034	74.147	1.00	0.00	C
ATOM	2398	CD1	ILE A 955	67.630	47.158	73.223	1.00	0.00	C
ATOM	2399	N	THR A 956	68.216	43.390	70.953	1.00	0.00	N
ATOM	2400	CA	THR A 956	69.052	43.546	69.801	1.00	0.00	C
ATOM	2401	C	THR A 956	68.425	42.884	68.620	1.00	0.00	C
ATOM	2402	O	THR A 956	68.562	43.394	67.514	1.00	0.00	O
ATOM	2403	CB	THR A 956	70.410	42.933	69.961	1.00	0.00	C
ATOM	2404	CG2	THR A 956	71.046	43.484	71.249	1.00	0.00	C
ATOM	2405	OG1	THR A 956	70.309	41.520	70.030	1.00	0.00	O
ATOM	2406	N	ILE A 957	67.740	41.739	68.777	1.00	0.00	N
ATOM	2407	CA	ILE A 957	67.206	41.170	67.572	1.00	0.00	C
ATOM	2408	C	ILE A 957	66.217	42.105	66.925	1.00	0.00	C
ATOM	2409	O	ILE A 957	66.278	42.238	65.702	1.00	0.00	O
ATOM	2410	CB	ILE A 957	66.744	39.724	67.681	1.00	0.00	C
ATOM	2411	CG1	ILE A 957	65.677	39.457	68.756	1.00	0.00	C
ATOM	2412	CG2	ILE A 957	68.010	38.877	67.879	1.00	0.00	C
ATOM	2413	CD1	ILE A 957	65.051	38.065	68.665	1.00	0.00	C

ATOM	2414	N	PRO A 958	65.309	42.784	67.591	1.00	0.00	N
ATOM	2415	CA	PRO A 958	64.508	43.733	66.866	1.00	0.00	C
ATOM	2416	C	PRO A 958	65.355	44.900	66.482	1.00	0.00	C
ATOM	2417	O	PRO A 958	65.018	45.604	65.530	1.00	0.00	O
ATOM	2418	CB	PRO A 958	63.348	44.103	67.787	1.00	0.00	C
ATOM	2419	CG	PRO A 958	63.178	42.855	68.668	1.00	0.00	C
ATOM	2420	CD	PRO A 958	64.587	42.251	68.738	1.00	0.00	C
ATOM	2421	N	LEU A 959	66.456	45.121	67.225	1.00	0.00	N
ATOM	2422	CA	LEU A 959	67.341	46.216	66.983	1.00	0.00	C
ATOM	2423	C	LEU A 959	67.931	45.984	65.631	1.00	0.00	C
ATOM	2424	O	LEU A 959	68.181	46.920	64.873	1.00	0.00	O
ATOM	2425	CB	LEU A 959	68.474	46.300	68.019	1.00	0.00	C
ATOM	2426	CG	LEU A 959	69.347	47.568	67.906	1.00	0.00	C
ATOM	2427	CD1	LEU A 959	70.197	47.580	66.629	1.00	0.00	C
ATOM	2428	CD2	LEU A 959	68.494	48.836	68.074	1.00	0.00	C
ATOM	2429	N	VAL A 960	68.154	44.701	65.303	1.00	0.00	N
ATOM	2430	CA	VAL A 960	68.716	44.295	64.054	1.00	0.00	C
ATOM	2431	C	VAL A 960	67.812	44.826	63.001	1.00	0.00	C
ATOM	2432	O	VAL A 960	68.262	45.368	61.994	1.00	0.00	O
ATOM	2433	CB	VAL A 960	68.733	42.796	63.916	1.00	0.00	C
ATOM	2434	CG1	VAL A 960	69.113	42.418	62.474	1.00	0.00	C
ATOM	2435	CG2	VAL A 960	69.678	42.223	64.985	1.00	0.00	C
ATOM	2436	N	CYS A 961	66.496	44.696	63.231	1.00	0.00	N
ATOM	2437	CA	CYS A 961	65.544	45.179	62.285	1.00	0.00	C
ATOM	2438	C	CYS A 961	65.718	46.656	62.174	1.00	0.00	C
ATOM	2439	O	CYS A 961	65.634	47.229	61.087	1.00	0.00	O
ATOM	2440	CB	CYS A 961	64.092	44.916	62.709	1.00	0.00	C
ATOM	2441	SG	CYS A 961	62.895	45.536	61.488	1.00	0.00	S
ATOM	2442	N	ILE A 962	65.990	47.317	63.313	1.00	0.00	N
ATOM	2443	CA	ILE A 962	66.085	48.747	63.353	1.00	0.00	C
ATOM	2444	C	ILE A 962	67.200	49.219	62.471	1.00	0.00	C
ATOM	2445	O	ILE A 962	67.020	50.144	61.682	1.00	0.00	O
ATOM	2446	CB	ILE A 962	66.406	49.263	64.726	1.00	0.00	C
ATOM	2447	CG1	ILE A 962	65.342	48.819	65.743	1.00	0.00	C
ATOM	2448	CG2	ILE A 962	66.556	50.789	64.626	1.00	0.00	C
ATOM	2449	CD1	ILE A 962	63.945	49.350	65.440	1.00	0.00	C
ATOM	2450	N	TYR A 963	68.378	48.574	62.558	1.00	0.00	N
ATOM	2451	CA	TYR A 963	69.508	49.086	61.839	1.00	0.00	C
ATOM	2452	C	TYR A 963	69.269	49.022	60.369	1.00	0.00	C
ATOM	2453	O	TYR A 963	69.712	49.901	59.633	1.00	0.00	O
ATOM	2454	CB	TYR A 963	70.869	48.430	62.164	1.00	0.00	C
ATOM	2455	CG	TYR A 963	70.943	47.021	61.693	1.00	0.00	C
ATOM	2456	CD1	TYR A 963	71.115	46.725	60.361	1.00	0.00	C
ATOM	2457	CD2	TYR A 963	70.882	45.993	62.602	1.00	0.00	C

ATOM	2458	CE1 TYR A 963	71.198	45.419	59.938	1.00	0.00	C
ATOM	2459	CE2 TYR A 963	70.967	44.685	62.187	1.00	0.00	C
ATOM	2460	CZ TYR A 963	71.119	44.396	60.853	1.00	0.00	C
ATOM	2461	OH TYR A 963	71.206	43.053	60.430	1.00	0.00	O
ATOM	2462	N MET A 964	68.551	47.991	59.894	1.00	0.00	N
ATOM	2463	CA MET A 964	68.383	47.829	58.478	1.00	0.00	C
ATOM	2464	C MET A 964	67.750	49.067	57.914	1.00	0.00	C
ATOM	2465	O MET A 964	68.155	49.553	56.861	1.00	0.00	O
ATOM	2466	CB MET A 964	67.442	46.669	58.117	1.00	0.00	C
ATOM	2467	CG MET A 964	67.950	45.291	58.549	1.00	0.00	C
ATOM	2468	SD MET A 964	66.795	43.931	58.197	1.00	0.00	S
ATOM	2469	CE MET A 964	65.558	44.460	59.420	1.00	0.00	C
ATOM	2470	N LEU A 965	66.739	49.622	58.599	1.00	0.00	N
ATOM	2471	CA LEU A 965	66.094	50.774	58.042	1.00	0.00	C
ATOM	2472	C LEU A 965	67.099	51.885	57.981	1.00	0.00	C
ATOM	2473	O LEU A 965	67.210	52.575	56.969	1.00	0.00	O
ATOM	2474	CB LEU A 965	64.882	51.226	58.885	1.00	0.00	C
ATOM	2475	CG LEU A 965	63.948	52.287	58.247	1.00	0.00	C
ATOM	2476	CD1 LEU A 965	62.794	52.628	59.204	1.00	0.00	C
ATOM	2477	CD2 LEU A 965	64.688	53.552	57.778	1.00	0.00	C
ATOM	2478	N SER A 966	67.878	52.073	59.062	1.00	0.00	N
ATOM	2479	CA SER A 966	68.802	53.171	59.110	1.00	0.00	C
ATOM	2480	C SER A 966	69.840	53.007	58.049	1.00	0.00	C
ATOM	2481	O SER A 966	70.142	53.941	57.311	1.00	0.00	O
ATOM	2482	CB SER A 966	69.528	53.287	60.460	1.00	0.00	C
ATOM	2483	OG SER A 966	70.383	52.172	60.659	1.00	0.00	O
ATOM	2484	N THR A 967	70.394	51.794	57.928	1.00	0.00	N
ATOM	2485	CA THR A 967	71.444	51.569	56.986	1.00	0.00	C
ATOM	2486	C THR A 967	70.937	51.823	55.608	1.00	0.00	C
ATOM	2487	O THR A 967	71.612	52.453	54.796	1.00	0.00	O
ATOM	2488	CB THR A 967	71.982	50.167	57.056	1.00	0.00	C
ATOM	2489	CG2 THR A 967	70.863	49.152	56.789	1.00	0.00	C
ATOM	2490	OG1 THR A 967	73.016	50.008	56.103	1.00	0.00	O
ATOM	2491	N ASN A 968	69.707	51.373	55.316	1.00	0.00	N
ATOM	2492	CA ASN A 968	69.223	51.505	53.979	1.00	0.00	C
ATOM	2493	C ASN A 968	69.187	52.948	53.593	1.00	0.00	C
ATOM	2494	O ASN A 968	69.579	53.306	52.484	1.00	0.00	O
ATOM	2495	CB ASN A 968	67.808	50.933	53.790	1.00	0.00	C
ATOM	2496	CG ASN A 968	67.503	50.969	52.300	1.00	0.00	C
ATOM	2497	ND2 ASN A 968	67.755	49.828	51.598	1.00	0.00	N
ATOM	2498	OD1 ASN A 968	67.065	51.987	51.767	1.00	0.00	O
ATOM	2499	N ILE A 969	68.729	53.823	54.502	1.00	0.00	N
ATOM	2500	CA ILE A 969	68.618	55.194	54.115	1.00	0.00	C
ATOM	2501	C ILE A 969	70.001	55.706	53.864	1.00	0.00	C

ATOM	2502	O	ILE A 969	70.228	56.515	52.969	1.00	0.00	O
ATOM	2503	CB	ILE A 969	67.983	56.083	55.124	1.00	0.00	C
ATOM	2504	CG1	ILE A 969	66.738	55.446	55.755	1.00	0.00	C
ATOM	2505	CG2	ILE A 969	67.566	57.286	54.279	1.00	0.00	C
ATOM	2506	CD1	ILE A 969	66.243	56.198	56.990	1.00	0.00	C
ATOM	2507	N	LEU A 970	70.980	55.260	54.668	1.00	0.00	N
ATOM	2508	CA	LEU A 970	72.302	55.758	54.457	1.00	0.00	C
ATOM	2509	C	LEU A 970	72.743	55.402	53.076	1.00	0.00	C
ATOM	2510	O	LEU A 970	73.273	56.250	52.363	1.00	0.00	O
ATOM	2511	CB	LEU A 970	73.339	55.186	55.436	1.00	0.00	C
ATOM	2512	CG	LEU A 970	74.771	55.628	55.086	1.00	0.00	C
ATOM	2513	CD1	LEU A 970	74.898	57.157	55.048	1.00	0.00	C
ATOM	2514	CD2	LEU A 970	75.786	54.976	56.029	1.00	0.00	C
ATOM	2515	N	LEU A 971	72.512	54.154	52.636	1.00	0.00	N
ATOM	2516	CA	LEU A 971	72.958	53.811	51.319	1.00	0.00	C
ATOM	2517	C	LEU A 971	72.241	54.668	50.330	1.00	0.00	C
ATOM	2518	O	LEU A 971	72.862	55.210	49.418	1.00	0.00	O
ATOM	2519	CB	LEU A 971	72.721	52.340	50.933	1.00	0.00	C
ATOM	2520	CG	LEU A 971	73.680	51.354	51.625	1.00	0.00	C
ATOM	2521	CD1	LEU A 971	73.533	51.387	53.153	1.00	0.00	C
ATOM	2522	CD2	LEU A 971	73.531	49.939	51.047	1.00	0.00	C
ATOM	2523	N	VAL A 972	70.918	54.855	50.494	1.00	0.00	N
ATOM	2524	CA	VAL A 972	70.205	55.630	49.520	1.00	0.00	C
ATOM	2525	C	VAL A 972	70.788	56.999	49.536	1.00	0.00	C
ATOM	2526	O	VAL A 972	70.856	57.679	48.514	1.00	0.00	O
ATOM	2527	CB	VAL A 972	68.716	55.726	49.748	1.00	0.00	C
ATOM	2528	CG1	VAL A 972	68.412	56.647	50.939	1.00	0.00	C
ATOM	2529	CG2	VAL A 972	68.065	56.201	48.440	1.00	0.00	C
ATOM	2530	N	ASN A 973	71.240	57.438	50.720	1.00	0.00	N
ATOM	2531	CA	ASN A 973	71.826	58.736	50.841	1.00	0.00	C
ATOM	2532	C	ASN A 973	73.016	58.807	49.932	1.00	0.00	C
ATOM	2533	O	ASN A 973	73.163	59.770	49.179	1.00	0.00	O
ATOM	2534	CB	ASN A 973	72.323	59.006	52.269	1.00	0.00	C
ATOM	2535	CG	ASN A 973	72.880	60.421	52.340	1.00	0.00	C
ATOM	2536	ND2	ASN A 973	73.372	60.810	53.547	1.00	0.00	N
ATOM	2537	OD1	ASN A 973	72.889	61.154	51.353	1.00	0.00	O
ATOM	2538	N	LEU A 974	73.896	57.784	49.974	1.00	0.00	N
ATOM	2539	CA	LEU A 974	75.103	57.747	49.189	1.00	0.00	C
ATOM	2540	C	LEU A 974	74.832	57.601	47.721	1.00	0.00	C
ATOM	2541	O	LEU A 974	75.461	58.276	46.911	1.00	0.00	O
ATOM	2542	CB	LEU A 974	76.055	56.605	49.585	1.00	0.00	C
ATOM	2543	CG	LEU A 974	76.827	56.841	50.901	1.00	0.00	C
ATOM	2544	CD1	LEU A 974	75.884	57.028	52.095	1.00	0.00	C
ATOM	2545	CD2	LEU A 974	77.866	55.732	51.134	1.00	0.00	C

ATOM	2546	N	LEU A 975	73.868	56.743	47.339	1.00	0.00	N
ATOM	2547	CA	LEU A 975	73.645	56.412	45.958	1.00	0.00	C
ATOM	2548	C	LEU A 975	73.312	57.614	45.137	1.00	0.00	C
ATOM	2549	O	LEU A 975	73.720	57.692	43.979	1.00	0.00	O
ATOM	2550	CB	LEU A 975	72.510	55.393	45.728	1.00	0.00	C
ATOM	2551	CG	LEU A 975	72.901	53.911	45.902	1.00	0.00	C
ATOM	2552	CD1	LEU A 975	73.855	53.471	44.780	1.00	0.00	C
ATOM	2553	CD2	LEU A 975	73.457	53.597	47.294	1.00	0.00	C
ATOM	2554	N	VAL A 976	72.580	58.589	45.700	1.00	0.00	N
ATOM	2555	CA	VAL A 976	72.134	59.673	44.875	1.00	0.00	C
ATOM	2556	C	VAL A 976	73.288	60.389	44.232	1.00	0.00	C
ATOM	2557	O	VAL A 976	73.207	60.752	43.061	1.00	0.00	O
ATOM	2558	CB	VAL A 976	71.322	60.699	45.597	1.00	0.00	C
ATOM	2559	CG1	VAL A 976	70.944	61.785	44.574	1.00	0.00	C
ATOM	2560	CG2	VAL A 976	70.110	60.011	46.246	1.00	0.00	C
ATOM	2561	N	ALA A 977	74.398	60.626	44.959	1.00	0.00	N
ATOM	2562	CA	ALA A 977	75.487	61.337	44.345	1.00	0.00	C
ATOM	2563	C	ALA A 977	76.065	60.473	43.237	1.00	0.00	C
ATOM	2564	O	ALA A 977	75.935	59.252	43.310	1.00	0.00	O
ATOM	2565	CB	ALA A 977	76.620	61.681	45.326	1.00	0.00	C
ATOM	2566	N	MET A 978	76.767	60.579	43.129	1.00	0.00	N
ATOM	2567	CA	MET A 978	77.387	59.820	42.060	1.00	0.00	C
ATOM	2568	C	MET A 978	78.476	59.050	42.716	1.00	0.00	C
ATOM	2569	O	MET A 978	79.235	59.595	43.516	1.00	0.00	O
ATOM	2570	CB	MET A 978	78.050	60.671	40.966	1.00	0.00	C
ATOM	2571	CG	MET A 978	77.057	61.478	40.133	1.00	0.00	C
ATOM	2572	SD	MET A 978	76.269	62.836	41.043	1.00	0.00	S
ATOM	2573	CE	MET A 978	75.256	63.420	39.656	1.00	0.00	C
ATOM	2574	N	PHE A 979	78.590	57.750	42.395	1.00	0.00	N
ATOM	2575	CA	PHE A 979	79.582	57.005	43.100	1.00	0.00	C
ATOM	2576	C	PHE A 979	80.587	56.530	42.117	1.00	0.00	C
ATOM	2577	O	PHE A 979	80.249	56.138	41.000	1.00	0.00	O
ATOM	2578	CB	PHE A 979	79.025	55.767	43.822	1.00	0.00	C
ATOM	2579	CG	PHE A 979	80.091	55.259	44.723	1.00	0.00	C
ATOM	2580	CD1	PHE A 979	80.225	55.773	45.992	1.00	0.00	C
ATOM	2581	CD2	PHE A 979	80.962	54.280	44.305	1.00	0.00	C
ATOM	2582	CE1	PHE A 979	81.208	55.314	46.835	1.00	0.00	C
ATOM	2583	CE2	PHE A 979	81.951	53.819	45.144	1.00	0.00	C
ATOM	2584	CZ	PHE A 979	82.075	54.335	46.412	1.00	0.00	C
ATOM	2585	N	GLY A 980	81.871	56.578	42.519	1.00	0.00	N
ATOM	2586	CA	GLY A 980	82.913	56.104	41.667	1.00	0.00	C
ATOM	2587	C	GLY A 980	82.826	56.862	40.392	1.00	0.00	C
ATOM	2588	O	GLY A 980	82.716	58.089	40.379	1.00	0.00	O
ATOM	2589	N	TYR A 981	82.849	56.117	39.274	1.00	0.00	N

ATOM	2590	CA	TYR	A	981	82.795	56.717	37.982	1.00	0.00	C
ATOM	2591	C	TYR	A	981	81.531	56.227	37.363	1.00	0.00	C
ATOM	2592	O	TYR	A	981	81.175	55.058	37.501	1.00	0.00	O
ATOM	2593	CB	TYR	A	981	83.956	56.256	37.085	1.00	0.00	C
ATOM	2594	CG	TYR	A	981	83.956	57.064	35.837	1.00	0.00	C
ATOM	2595	CD1	TYR	A	981	84.547	58.303	35.826	1.00	0.00	C
ATOM	2596	CD2	TYR	A	981	83.387	56.583	34.681	1.00	0.00	C
ATOM	2597	CE1	TYR	A	981	84.565	59.065	34.685	1.00	0.00	C
ATOM	2598	CE2	TYR	A	981	83.402	57.340	33.531	1.00	0.00	C
ATOM	2599	CZ	TYR	A	981	83.991	58.581	33.534	1.00	0.00	C
ATOM	2600	OH	TYR	A	981	84.010	59.361	32.359	1.00	0.00	O
ATOM	2601	N	THR	A	982	80.798	57.125	36.681	1.00	0.00	N
ATOM	2602	CA	THR	A	982	79.573	56.715	36.069	1.00	0.00	C
ATOM	2603	C	THR	A	982	79.895	55.738	35.000	1.00	0.00	C
ATOM	2604	O	THR	A	982	80.748	55.987	34.149	1.00	0.00	O
ATOM	2605	CB	THR	A	982	78.818	57.839	35.425	1.00	0.00	C
ATOM	2606	CG2	THR	A	982	77.612	57.276	34.660	1.00	0.00	C
ATOM	2607	OG1	THR	A	982	78.398	58.770	36.404	1.00	0.00	O
ATOM	2608	N	VAL	A	983	79.205	54.586	35.028	1.00	0.00	N
ATOM	2609	CA	VAL	A	983	79.427	53.578	34.043	1.00	0.00	C
ATOM	2610	C	VAL	A	983	78.087	53.087	33.612	1.00	0.00	C
ATOM	2611	O	VAL	A	983	77.103	53.212	34.340	1.00	0.00	O
ATOM	2612	CB	VAL	A	983	80.175	52.391	34.569	1.00	0.00	C
ATOM	2613	CG1	VAL	A	983	81.586	52.845	34.985	1.00	0.00	C
ATOM	2614	CG2	VAL	A	983	79.356	51.774	35.710	1.00	0.00	C
ATOM	2615	N	GLY	A	984	78.022	52.534	32.387	1.00	0.00	N
ATOM	2616	CA	GLY	A	984	76.796	51.994	31.883	1.00	0.00	C
ATOM	2617	C	GLY	A	984	76.123	53.058	31.084	1.00	0.00	C
ATOM	2618	O	GLY	A	984	76.249	54.247	31.372	1.00	0.00	O
ATOM	2619	N	THR	A	985	75.379	52.636	30.045	1.00	0.00	N
ATOM	2620	CA	THR	A	985	74.665	53.554	29.212	1.00	0.00	C
ATOM	2621	C	THR	A	985	73.599	54.185	30.041	1.00	0.00	C
ATOM	2622	O	THR	A	985	73.357	55.389	29.953	1.00	0.00	O
ATOM	2623	CB	THR	A	985	73.979	52.893	28.056	1.00	0.00	C
ATOM	2624	CG2	THR	A	985	73.210	53.964	27.268	1.00	0.00	C
ATOM	2625	OG1	THR	A	985	74.935	52.251	27.223	1.00	0.00	O
ATOM	2626	N	VAL	A	986	72.946	53.374	30.894	1.00	0.00	N
ATOM	2627	CA	VAL	A	986	71.865	53.876	31.684	1.00	0.00	C
ATOM	2628	C	VAL	A	986	72.385	54.991	32.520	1.00	0.00	C
ATOM	2629	O	VAL	A	986	71.798	56.071	32.568	1.00	0.00	O
ATOM	2630	CB	VAL	A	986	71.308	52.835	32.616	1.00	0.00	C
ATOM	2631	CG1	VAL	A	986	70.241	53.492	33.506	1.00	0.00	C
ATOM	2632	CG2	VAL	A	986	70.793	51.651	31.781	1.00	0.00	C
ATOM	2633	N	GLN	A	987	73.530	54.772	33.189	1.00	0.00	N

ATOM	2634	CA	GLN A 987	74.027	55.816	34.029	1.00	0.00	C
ATOM	2635	C	GLN A 987	74.658	56.828	33.133	1.00	0.00	C
ATOM	2636	O	GLN A 987	75.440	56.489	32.244	1.00	0.00	O
ATOM	2637	CB	GLN A 987	75.060	55.314	35.052	1.00	0.00	C
ATOM	2638	CG	GLN A 987	75.319	56.276	36.212	1.00	0.00	C
ATOM	2639	CD	GLN A 987	76.265	55.571	37.174	1.00	0.00	C
ATOM	2640	NE2	GLN A 987	76.014	54.254	37.407	1.00	0.00	N
ATOM	2641	OE1	GLN A 987	77.193	56.173	37.710	1.00	0.00	O
ATOM	2642	N	GLU A 988	74.312	58.114	33.330	1.00	0.00	N
ATOM	2643	CA	GLU A 988	74.871	59.125	32.487	1.00	0.00	C
ATOM	2644	C	GLU A 988	75.215	60.290	33.355	1.00	0.00	C
ATOM	2645	O	GLU A 988	74.501	60.602	34.306	1.00	0.00	O
ATOM	2646	CB	GLU A 988	73.878	59.619	31.418	1.00	0.00	C
ATOM	2647	CG	GLU A 988	74.478	60.574	30.384	1.00	0.00	C
ATOM	2648	CD	GLU A 988	74.519	61.972	30.980	1.00	0.00	C
ATOM	2649	OE1	GLU A 988	73.810	62.212	31.995	1.00	0.00	O
ATOM	2650	OE2	GLU A 988	75.261	62.820	30.423	1.00	0.00	O
ATOM	2651	N	ASN A 989	76.347	60.959	33.060	1.00	0.00	N
ATOM	2652	CA	ASN A 989	76.697	62.115	33.826	1.00	0.00	C
ATOM	2653	C	ASN A 989	76.781	63.254	32.867	1.00	0.00	C
ATOM	2654	O	ASN A 989	77.382	63.137	31.801	1.00	0.00	O
ATOM	2655	CB	ASN A 989	78.053	62.013	34.544	1.00	0.00	C
ATOM	2656	CG	ASN A 989	78.136	63.156	35.549	1.00	0.00	C
ATOM	2657	ND2	ASN A 989	78.542	62.828	36.803	1.00	0.00	N
ATOM	2658	OD1	ASN A 989	77.839	64.307	35.230	1.00	0.00	O
ATOM	2659	N	ASN A 990	76.160	64.394	33.211	1.00	0.00	N
ATOM	2660	CA	ASN A 990	76.216	65.486	32.290	1.00	0.00	C
ATOM	2661	C	ASN A 990	77.153	66.510	32.836	1.00	0.00	C
ATOM	2662	O	ASN A 990	76.948	67.045	33.922	1.00	0.00	O
ATOM	2663	CB	ASN A 990	74.873	66.209	32.091	1.00	0.00	C
ATOM	2664	CG	ASN A 990	73.883	65.292	31.388	1.00	0.00	C
ATOM	2665	ND2	ASN A 990	74.033	65.154	30.043	1.00	0.00	N
ATOM	2666	OD1	ASN A 990	72.989	64.727	32.017	1.00	0.00	O
ATOM	2667	N	ASP A 991	78.235	66.788	32.086	1.00	0.00	N
ATOM	2668	CA	ASP A 991	79.139	67.819	32.488	1.00	0.00	C
ATOM	2669	C	ASP A 991	78.404	69.110	32.339	1.00	0.00	C
ATOM	2670	O	ASP A 991	78.585	70.043	33.119	1.00	0.00	O
ATOM	2671	CB	ASP A 991	80.417	67.882	31.635	1.00	0.00	C
ATOM	2672	CG	ASP A 991	80.037	68.181	30.192	1.00	0.00	C
ATOM	2673	OD1	ASP A 991	78.984	67.663	29.732	1.00	0.00	O
ATOM	2674	OD2	ASP A 991	80.800	68.934	29.531	1.00	0.00	O
ATOM	2675	N	GLN A 992	77.542	69.185	31.305	1.00	0.00	N
ATOM	2676	CA	GLN A 992	76.806	70.384	31.041	1.00	0.00	C
ATOM	2677	C	GLN A 992	75.842	70.670	32.154	1.00	0.00	C

ATOM	2678	O	GLN A 992	75.697	71.824	32.556	1.00	0.00	O
ATOM	2679	CB	GLN A 992	76.074	70.374	29.683	1.00	0.00	C
ATOM	2680	CG	GLN A 992	75.013	69.291	29.487	1.00	0.00	C
ATOM	2681	CD	GLN A 992	74.465	69.462	28.074	1.00	0.00	C
ATOM	2682	NE2	GLN A 992	75.361	69.351	27.055	1.00	0.00	N
ATOM	2683	OE1	GLN A 992	73.269	69.690	27.879	1.00	0.00	O
ATOM	2684	N	VAL A 993	75.183	69.635	32.719	1.00	0.00	N
ATOM	2685	CA	VAL A 993	74.231	69.872	33.772	1.00	0.00	C
ATOM	2686	C	VAL A 993	74.953	70.549	34.877	1.00	0.00	C
ATOM	2687	O	VAL A 993	74.461	71.511	35.467	1.00	0.00	O
ATOM	2688	CB	VAL A 993	73.664	68.624	34.394	1.00	0.00	C
ATOM	2689	CG1	VAL A 993	72.865	69.032	35.643	1.00	0.00	C
ATOM	2690	CG2	VAL A 993	72.813	67.870	33.362	1.00	0.00	C
ATOM	2691	N	TRP A 994	76.160	70.061	35.193	1.00	0.00	N
ATOM	2692	CA	TRP A 994	76.892	70.707	36.228	1.00	0.00	C
ATOM	2693	C	TRP A 994	77.096	72.127	35.889	1.00	0.00	C
ATOM	2694	O	TRP A 994	76.863	72.995	36.728	1.00	0.00	O
ATOM	2695	CB	TRP A 994	78.332	70.284	36.342	1.00	0.00	C
ATOM	2696	CG	TRP A 994	79.173	71.463	36.785	1.00	0.00	C
ATOM	2697	CD1	TRP A 994	79.170	72.212	37.936	1.00	0.00	C
ATOM	2698	CD2	TRP A 994	80.346	71.869	36.055	1.00	0.00	C
ATOM	2699	CE2	TRP A 994	81.003	72.834	36.819	1.00	0.00	C
ATOM	2700	CE3	TRP A 994	80.854	71.439	34.864	1.00	0.00	C
ATOM	2701	NE1	TRP A 994	80.271	73.035	37.966	1.00	0.00	N
ATOM	2702	CZ2	TRP A 994	82.178	73.386	36.398	1.00	0.00	C
ATOM	2703	CZ3	TRP A 994	82.022	72.022	34.430	1.00	0.00	C
ATOM	2704	CH2	TRP A 994	82.673	72.977	35.184	1.00	0.00	C
ATOM	2705	N	LYS A 995	77.568	72.381	34.657	1.00	0.00	N
ATOM	2706	CA	LYS A 995	77.976	73.705	34.308	1.00	0.00	C
ATOM	2707	C	LYS A 995	76.828	74.616	34.526	1.00	0.00	C
ATOM	2708	O	LYS A 995	77.017	75.746	34.973	1.00	0.00	O
ATOM	2709	CB	LYS A 995	78.384	73.874	32.834	1.00	0.00	C
ATOM	2710	CG	LYS A 995	79.857	73.597	32.524	1.00	0.00	C
ATOM	2711	CD	LYS A 995	80.834	74.611	33.128	1.00	0.00	C
ATOM	2712	CE	LYS A 995	82.272	74.411	32.639	1.00	0.00	C
ATOM	2713	NZ	LYS A 995	83.150	75.479	33.164	1.00	0.00	N1+
ATOM	2714	N	PHE A 996	75.611	74.144	34.224	1.00	0.00	N
ATOM	2715	CA	PHE A 996	74.468	74.978	34.399	1.00	0.00	C
ATOM	2716	C	PHE A 996	74.394	75.373	35.839	1.00	0.00	C
ATOM	2717	O	PHE A 996	74.257	76.552	36.155	1.00	0.00	O
ATOM	2718	CB	PHE A 996	73.148	74.261	34.051	1.00	0.00	C
ATOM	2719	CG	PHE A 996	72.030	75.226	34.272	1.00	0.00	C
ATOM	2720	CD1	PHE A 996	71.649	76.096	33.279	1.00	0.00	C
ATOM	2721	CD2	PHE A 996	71.366	75.262	35.476	1.00	0.00	C

ATOM	2722	CE1 PHE A 996	70.623	76.988	33.479	1.00	0.00	C
ATOM	2723	CE2 PHE A 996	70.338	76.150	35.681	1.00	0.00	C
ATOM	2724	CZ PHE A 996	69.961	77.017	34.683	1.00	0.00	C
ATOM	2725	N GLN A 997	74.502	74.394	36.760	1.00	0.00	N
ATOM	2726	CA GLN A 997	74.392	74.710	38.156	1.00	0.00	C
ATOM	2727	C GLN A 997	75.527	75.586	38.575	1.00	0.00	C
ATOM	2728	O GLN A 997	75.352	76.503	39.373	1.00	0.00	O
ATOM	2729	CB GLN A 997	74.394	73.497	39.103	1.00	0.00	C
ATOM	2730	CG GLN A 997	74.328	73.934	40.571	1.00	0.00	C
ATOM	2731	CD GLN A 997	73.997	72.738	41.442	1.00	0.00	C
ATOM	2732	NE2 GLN A 997	73.259	71.754	40.865	1.00	0.00	N
ATOM	2733	OE1 GLN A 997	74.357	72.687	42.618	1.00	0.00	O
ATOM	2734	N ARG A 998	76.728	75.315	38.053	1.00	0.00	N
ATOM	2735	CA ARG A 998	77.893	76.065	38.416	1.00	0.00	C
ATOM	2736	C ARG A 998	77.699	77.501	38.031	1.00	0.00	C
ATOM	2737	O ARG A 998	77.974	78.406	38.815	1.00	0.00	O
ATOM	2738	CB ARG A 998	79.115	75.547	37.647	1.00	0.00	C
ATOM	2739	CG ARG A 998	80.329	76.464	37.686	1.00	0.00	C
ATOM	2740	CD ARG A 998	80.464	77.343	36.443	1.00	0.00	C
ATOM	2741	NE ARG A 998	81.694	78.163	36.632	1.00	0.00	N
ATOM	2742	CZ ARG A 998	82.907	77.615	36.335	1.00	0.00	C
ATOM	2743	NH1 ARG A 998	82.972	76.342	35.849	1.00	0.00	N
ATOM	2744	NH2 ARG A 998	84.054	78.326	36.539	1.00	0.00	N
ATOM	2745	N TYR A 999	77.204	77.722	36.799	1.00	0.00	N
ATOM	2746	CA TYR A 999	76.981	79.017	36.228	1.00	0.00	C
ATOM	2747	C TYR A 999	75.928	79.723	37.018	1.00	0.00	C
ATOM	2748	O TYR A 999	76.039	80.911	37.306	1.00	0.00	O
ATOM	2749	CB TYR A 999	76.489	78.901	34.772	1.00	0.00	C
ATOM	2750	CG TYR A 999	76.183	80.251	34.229	1.00	0.00	C
ATOM	2751	CD1 TYR A 999	77.202	81.126	33.955	1.00	0.00	C
ATOM	2752	CD2 TYR A 999	74.892	80.643	33.959	1.00	0.00	C
ATOM	2753	CE1 TYR A 999	76.957	82.374	33.443	1.00	0.00	C
ATOM	2754	CE2 TYR A 999	74.635	81.891	33.442	1.00	0.00	C
ATOM	2755	CZ TYR A 999	75.667	82.761	33.189	1.00	0.00	C
ATOM	2756	OH TYR A 999	75.419	84.043	32.662	1.00	0.00	O
ATOM	2757	N PHE A1000	74.868	78.991	37.390	1.00	0.00	N
ATOM	2758	CA PHE A1000	73.775	79.575	38.105	1.00	0.00	C
ATOM	2759	C PHE A1000	74.295	80.105	39.400	1.00	0.00	C
ATOM	2760	O PHE A1000	73.991	81.236	39.776	1.00	0.00	O
ATOM	2761	CB PHE A1000	72.680	78.539	38.419	1.00	0.00	C
ATOM	2762	CG PHE A1000	71.580	79.215	39.159	1.00	0.00	C
ATOM	2763	CD1 PHE A1000	70.625	79.942	38.482	1.00	0.00	C
ATOM	2764	CD2 PHE A1000	71.500	79.116	40.529	1.00	0.00	C
ATOM	2765	CE1 PHE A1000	69.608	80.562	39.166	1.00	0.00	C

ATOM	2766	CE2 PHE A1000	70.482	79.736	41.216	1.00	0.00	C
ATOM	2767	CZ PHE A1000	69.535	80.460	40.534	1.00	0.00	C
ATOM	2768	N LEU A1001	75.111	79.304	40.108	1.00	0.00	N
ATOM	2769	CA LEU A1001	75.611	79.710	41.387	1.00	0.00	C
ATOM	2770	C LEU A1001	76.490	80.918	41.250	1.00	0.00	C
ATOM	2771	O LEU A1001	76.375	81.856	42.039	1.00	0.00	O
ATOM	2772	CB LEU A1001	76.435	78.629	42.103	1.00	0.00	C
ATOM	2773	CG LEU A1001	75.601	77.417	42.546	1.00	0.00	C
ATOM	2774	CD1 LEU A1001	76.433	76.485	43.436	1.00	0.00	C
ATOM	2775	CD2 LEU A1001	74.288	77.852	43.213	1.00	0.00	C
ATOM	2776	N VAL A1002	77.383	80.938	40.246	1.00	0.00	N
ATOM	2777	CA VAL A1002	78.288	82.044	40.129	1.00	0.00	C
ATOM	2778	C VAL A1002	77.506	83.286	39.843	1.00	0.00	C
ATOM	2779	O VAL A1002	77.803	84.347	40.387	1.00	0.00	O
ATOM	2780	CB VAL A1002	79.313	81.873	39.042	1.00	0.00	C
ATOM	2781	CG1 VAL A1002	80.176	80.641	39.375	1.00	0.00	C
ATOM	2782	CG2 VAL A1002	78.604	81.801	37.680	1.00	0.00	C
ATOM	2783	N GLN A1003	76.479	83.190	38.973	1.00	0.00	N
ATOM	2784	CA GLN A1003	75.709	84.351	38.632	1.00	0.00	C
ATOM	2785	C GLN A1003	75.015	84.856	39.853	1.00	0.00	C
ATOM	2786	O GLN A1003	74.976	86.057	40.100	1.00	0.00	O
ATOM	2787	CB GLN A1003	74.565	84.089	37.647	1.00	0.00	C
ATOM	2788	CG GLN A1003	74.979	83.782	36.218	1.00	0.00	C
ATOM	2789	CD GLN A1003	73.687	83.857	35.429	1.00	0.00	C
ATOM	2790	NE2 GLN A1003	72.865	82.777	35.510	1.00	0.00	N
ATOM	2791	OE1 GLN A1003	73.400	84.867	34.790	1.00	0.00	O
ATOM	2792	N GLU A1004	74.448	83.936	40.655	1.00	0.00	N
ATOM	2793	CA GLU A1004	73.706	84.335	41.815	1.00	0.00	C
ATOM	2794	C GLU A1004	74.657	85.043	42.726	1.00	0.00	C
ATOM	2795	O GLU A1004	74.321	86.046	43.351	1.00	0.00	O
ATOM	2796	CB GLU A1004	73.122	83.127	42.570	1.00	0.00	C
ATOM	2797	CG GLU A1004	72.309	83.497	43.810	1.00	0.00	C
ATOM	2798	CD GLU A1004	71.809	82.199	44.430	1.00	0.00	C
ATOM	2799	OE1 GLU A1004	71.399	81.296	43.653	1.00	0.00	O
ATOM	2800	OE2 GLU A1004	71.837	82.089	45.685	1.00	0.00	O
ATOM	2801	N TYR A1005	75.887	84.512	42.788	1.00	0.00	N
ATOM	2802	CA TYR A1005	76.982	85.008	43.565	1.00	0.00	C
ATOM	2803	C TYR A1005	77.304	86.396	43.099	1.00	0.00	C
ATOM	2804	O TYR A1005	77.435	87.313	43.905	1.00	0.00	O
ATOM	2805	CB TYR A1005	78.190	84.079	43.308	1.00	0.00	C
ATOM	2806	CG TYR A1005	79.520	84.675	43.626	1.00	0.00	C
ATOM	2807	CD1 TYR A1005	80.106	85.550	42.738	1.00	0.00	C
ATOM	2808	CD2 TYR A1005	80.209	84.330	44.765	1.00	0.00	C
ATOM	2809	CE1 TYR A1005	81.339	86.098	42.986	1.00	0.00	C

ATOM	2810	CE2 TYR A1005	81.446	84.875	45.020	1.00	0.00	C
ATOM	2811	CZ TYR A1005	82.013	85.759	44.131	1.00	0.00	C
ATOM	2812	OH TYR A1005	83.282	86.314	44.397	1.00	0.00	O
ATOM	2813	N CYS A1006	77.407	86.578	41.772	1.00	0.00	N
ATOM	2814	CA CYS A1006	77.762	87.856	41.231	1.00	0.00	C
ATOM	2815	C CYS A1006	76.692	88.846	41.563	1.00	0.00	C
ATOM	2816	O CYS A1006	76.978	89.968	41.974	1.00	0.00	O
ATOM	2817	CB CYS A1006	77.924	87.831	39.702	1.00	0.00	C
ATOM	2818	SG CYS A1006	79.296	86.762	39.168	1.00	0.00	S
ATOM	2819	N SER A1007	75.418	88.449	41.394	1.00	0.00	N
ATOM	2820	CA SER A1007	74.352	89.375	41.631	1.00	0.00	C
ATOM	2821	C SER A1007	74.375	89.791	43.066	1.00	0.00	C
ATOM	2822	O SER A1007	74.355	90.982	43.374	1.00	0.00	O
ATOM	2823	CB SER A1007	72.967	88.765	41.348	1.00	0.00	C
ATOM	2824	OG SER A1007	71.947	89.721	41.601	1.00	0.00	O
ATOM	2825	N ARG A1008	74.428	88.811	43.987	1.00	0.00	N
ATOM	2826	CA ARG A1008	74.369	89.126	45.387	1.00	0.00	C
ATOM	2827	C ARG A1008	75.565	89.926	45.779	1.00	0.00	C
ATOM	2828	O ARG A1008	75.449	90.943	46.459	1.00	0.00	O
ATOM	2829	CB ARG A1008	74.336	87.872	46.278	1.00	0.00	C
ATOM	2830	CG ARG A1008	74.272	88.184	47.775	1.00	0.00	C
ATOM	2831	CD ARG A1008	74.180	86.931	48.650	1.00	0.00	C
ATOM	2832	NE ARG A1008	74.180	87.375	50.074	1.00	0.00	N
ATOM	2833	CZ ARG A1008	75.342	87.363	50.788	1.00	0.00	C
ATOM	2834	NH1 ARG A1008	76.491	86.903	50.217	1.00	0.00	N
ATOM	2835	NH2 ARG A1008	75.356	87.809	52.080	1.00	0.00	N
ATOM	2836	N LEU A1009	76.755	89.487	45.333	1.00	0.00	N
ATOM	2837	CA LEU A1009	77.978	90.135	45.697	1.00	0.00	C
ATOM	2838	C LEU A1009	78.058	91.495	45.089	1.00	0.00	C
ATOM	2839	O LEU A1009	78.777	92.353	45.600	1.00	0.00	O
ATOM	2840	CB LEU A1009	79.251	89.348	45.355	1.00	0.00	C
ATOM	2841	CG LEU A1009	79.408	88.103	46.244	1.00	0.00	C
ATOM	2842	CD1 LEU A1009	80.825	87.528	46.151	1.00	0.00	C
ATOM	2843	CD2 LEU A1009	78.979	88.391	47.692	1.00	0.00	C
ATOM	2844	N ASN A1010	77.390	91.713	43.942	1.00	0.00	N
ATOM	2845	CA ASN A1010	77.477	93.018	43.361	1.00	0.00	C
ATOM	2846	C ASN A1010	76.430	93.913	44.013	1.00	0.00	C
ATOM	2847	O ASN A1010	75.816	93.462	45.016	1.00	0.00	O
ATOM	2848	CB ASN A1010	77.246	93.038	41.838	1.00	0.00	C
ATOM	2849	CG ASN A1010	77.855	94.331	41.303	1.00	0.00	C
ATOM	2850	ND2 ASN A1010	77.879	94.480	39.952	1.00	0.00	N
ATOM	2851	OD1 ASN A1010	78.310	95.181	42.066	1.00	0.00	O
ATOM	2852	OXT ASN A1010	76.238	95.060	43.528	1.00	0.00	O1-
HETATM	2853	CA CA1 A1011	71.453	84.169	52.398	1.00	0.00	CA2+

TER 2854 CA1 A1011									
ATOM	2855	N	GLN B 671	60.322	51.926	26.784	1.00	0.00	N1+
ATOM	2856	CA	GLN B 671	59.764	52.901	25.884	1.00	0.00	C
ATOM	2857	C	GLN B 671	58.872	53.855	26.619	1.00	0.00	C
ATOM	2858	O	GLN B 671	58.239	53.537	27.624	1.00	0.00	O
ATOM	2859	CB	GLN B 671	58.924	52.251	24.773	1.00	0.00	C
ATOM	2860	CG	GLN B 671	57.703	51.512	25.324	1.00	0.00	C
ATOM	2861	CD	GLN B 671	56.996	50.805	24.175	1.00	0.00	C
ATOM	2862	NE2	GLN B 671	55.986	49.962	24.516	1.00	0.00	N
ATOM	2863	OE1	GLN B 671	57.338	50.992	23.008	1.00	0.00	O
ATOM	2864	N	PRO B 672	58.872	55.063	26.114	1.00	0.00	N
ATOM	2865	CA	PRO B 672	58.074	56.113	26.686	1.00	0.00	C
ATOM	2866	C	PRO B 672	56.597	55.934	26.520	1.00	0.00	C
ATOM	2867	O	PRO B 672	55.851	56.526	27.297	1.00	0.00	O
ATOM	2868	CB	PRO B 672	58.599	57.410	26.076	1.00	0.00	C
ATOM	2869	CG	PRO B 672	60.069	57.095	25.762	1.00	0.00	C
ATOM	2870	CD	PRO B 672	60.082	55.581	25.494	1.00	0.00	C
ATOM	2871	N	GLY B 673	56.140	55.167	25.510	1.00	0.00	N
ATOM	2872	CA	GLY B 673	54.723	55.072	25.308	1.00	0.00	C
ATOM	2873	C	GLY B 673	54.070	54.409	26.480	1.00	0.00	C
ATOM	2874	O	GLY B 673	53.111	54.931	27.048	1.00	0.00	O
ATOM	2875	N	VAL B 674	54.595	53.242	26.888	1.00	0.00	N
ATOM	2876	CA	VAL B 674	54.024	52.513	27.976	1.00	0.00	C
ATOM	2877	C	VAL B 674	54.199	53.319	29.215	1.00	0.00	C
ATOM	2878	O	VAL B 674	53.318	53.352	30.072	1.00	0.00	O
ATOM	2879	CB	VAL B 674	54.686	51.183	28.192	1.00	0.00	C
ATOM	2880	CG1	VAL B 674	56.177	51.421	28.484	1.00	0.00	C
ATOM	2881	CG2	VAL B 674	53.944	50.443	29.321	1.00	0.00	C
ATOM	2882	N	GLN B 675	55.354	53.996	29.342	1.00	0.00	N
ATOM	2883	CA	GLN B 675	55.633	54.761	30.520	1.00	0.00	C
ATOM	2884	C	GLN B 675	54.619	55.857	30.627	1.00	0.00	C
ATOM	2885	O	GLN B 675	54.137	56.156	31.718	1.00	0.00	O
ATOM	2886	CB	GLN B 675	57.027	55.407	30.503	1.00	0.00	C
ATOM	2887	CG	GLN B 675	58.166	54.381	30.526	1.00	0.00	C
ATOM	2888	CD	GLN B 675	58.137	53.671	31.870	1.00	0.00	C
ATOM	2889	NE2	GLN B 675	58.738	52.451	31.925	1.00	0.00	N
ATOM	2890	OE1	GLN B 675	57.594	54.183	32.848	1.00	0.00	O
ATOM	2891	N	ASN B 676	54.265	56.479	29.490	1.00	0.00	N
ATOM	2892	CA	ASN B 676	53.303	57.543	29.500	1.00	0.00	C
ATOM	2893	C	ASN B 676	52.022	56.954	29.995	1.00	0.00	C
ATOM	2894	O	ASN B 676	51.268	57.590	30.727	1.00	0.00	O
ATOM	2895	CB	ASN B 676	53.052	58.133	28.102	1.00	0.00	C
ATOM	2896	CG	ASN B 676	52.187	59.378	28.259	1.00	0.00	C
ATOM	2897	ND2	ASN B 676	52.650	60.514	27.674	1.00	0.00	N

ATOM	2898	OD1 ASN B 676	51.132	59.339	28.889	1.00	0.00	O
ATOM	2899	N PHE B 677	51.769	55.695	29.604	1.00	0.00	N
ATOM	2900	CA PHE B 677	50.595	54.974	29.991	1.00	0.00	C
ATOM	2901	C PHE B 677	50.595	54.858	31.481	1.00	0.00	C
ATOM	2902	O PHE B 677	49.555	55.017	32.117	1.00	0.00	O
ATOM	2903	CB PHE B 677	50.578	53.550	29.409	1.00	0.00	C
ATOM	2904	CG PHE B 677	49.348	52.845	29.870	1.00	0.00	C
ATOM	2905	CD1 PHE B 677	48.155	52.998	29.200	1.00	0.00	C
ATOM	2906	CD2 PHE B 677	49.394	52.025	30.973	1.00	0.00	C
ATOM	2907	CE1 PHE B 677	47.026	52.343	29.632	1.00	0.00	C
ATOM	2908	CE2 PHE B 677	48.268	51.370	31.408	1.00	0.00	C
ATOM	2909	CZ PHE B 677	47.080	51.529	30.737	1.00	0.00	C
ATOM	2910	N LEU B 678	51.770	54.583	32.088	1.00	0.00	N
ATOM	2911	CA LEU B 678	51.800	54.439	33.518	1.00	0.00	C
ATOM	2912	C LEU B 678	51.310	55.710	34.117	1.00	0.00	C
ATOM	2913	O LEU B 678	50.471	55.709	35.016	1.00	0.00	O
ATOM	2914	CB LEU B 678	53.199	54.334	34.146	1.00	0.00	C
ATOM	2915	CG LEU B 678	53.994	53.033	33.967	1.00	0.00	C
ATOM	2916	CD1 LEU B 678	54.420	52.797	32.515	1.00	0.00	C
ATOM	2917	CD2 LEU B 678	55.177	53.030	34.951	1.00	0.00	C
ATOM	2918	N SER B 679	51.837	56.833	33.609	1.00	0.00	N
ATOM	2919	CA SER B 679	51.543	58.125	34.152	1.00	0.00	C
ATOM	2920	C SER B 679	50.077	58.388	34.034	1.00	0.00	C
ATOM	2921	O SER B 679	49.459	58.919	34.957	1.00	0.00	O
ATOM	2922	CB SER B 679	52.273	59.248	33.398	1.00	0.00	C
ATOM	2923	OG SER B 679	51.946	60.509	33.961	1.00	0.00	O
ATOM	2924	N LYS B 680	49.472	58.014	32.895	1.00	0.00	N
ATOM	2925	CA LYS B 680	48.079	58.285	32.712	1.00	0.00	C
ATOM	2926	C LYS B 680	47.325	57.531	33.755	1.00	0.00	C
ATOM	2927	O LYS B 680	46.390	58.058	34.355	1.00	0.00	O
ATOM	2928	CB LYS B 680	47.577	57.840	31.325	1.00	0.00	C
ATOM	2929	CG LYS B 680	46.108	58.169	31.015	1.00	0.00	C
ATOM	2930	CD LYS B 680	45.077	57.407	31.855	1.00	0.00	C
ATOM	2931	CE LYS B 680	43.624	57.719	31.483	1.00	0.00	C
ATOM	2932	NZ LYS B 680	42.703	56.904	32.304	1.00	0.00	NI+
ATOM	2933	N GLN B 681	47.716	56.267	33.995	1.00	0.00	N
ATOM	2934	CA GLN B 681	47.033	55.445	34.948	1.00	0.00	C
ATOM	2935	C GLN B 681	47.231	55.995	36.329	1.00	0.00	C
ATOM	2936	O GLN B 681	46.307	56.002	37.138	1.00	0.00	O
ATOM	2937	CB GLN B 681	47.533	53.989	34.926	1.00	0.00	C
ATOM	2938	CG GLN B 681	46.827	53.077	35.932	1.00	0.00	C
ATOM	2939	CD GLN B 681	47.283	51.648	35.663	1.00	0.00	C
ATOM	2940	NE2 GLN B 681	48.173	51.112	36.538	1.00	0.00	N
ATOM	2941	OE1 GLN B 681	46.858	51.025	34.692	1.00	0.00	O

ATOM	2942	N	TRP B 682	48.453	56.473	36.620	1.00	0.00	N
ATOM	2943	CA	TRP B 682	48.821	56.958	37.921	1.00	0.00	C
ATOM	2944	C	TRP B 682	47.971	58.136	38.298	1.00	0.00	C
ATOM	2945	O	TRP B 682	47.393	58.174	39.383	1.00	0.00	O
ATOM	2946	CB	TRP B 682	50.285	57.428	37.940	1.00	0.00	C
ATOM	2947	CG	TRP B 682	50.782	57.942	39.269	1.00	0.00	C
ATOM	2948	CD1	TRP B 682	50.733	59.206	39.781	1.00	0.00	C
ATOM	2949	CD2	TRP B 682	51.459	57.134	40.241	1.00	0.00	C
ATOM	2950	CE2	TRP B 682	51.786	57.965	41.312	1.00	0.00	C
ATOM	2951	CE3	TRP B 682	51.788	55.809	40.242	1.00	0.00	C
ATOM	2952	NE1	TRP B 682	51.334	59.236	41.018	1.00	0.00	N
ATOM	2953	CZ2	TRP B 682	52.451	57.482	42.405	1.00	0.00	C
ATOM	2954	CZ3	TRP B 682	52.454	55.323	41.345	1.00	0.00	C
ATOM	2955	CH2	TRP B 682	52.778	56.145	42.407	1.00	0.00	C
ATOM	2956	N	TYR B 683	47.876	59.133	37.398	1.00	0.00	N
ATOM	2957	CA	TYR B 683	47.124	60.335	37.639	1.00	0.00	C
ATOM	2958	C	TYR B 683	45.675	60.011	37.738	1.00	0.00	C
ATOM	2959	O	TYR B 683	44.942	60.652	38.492	1.00	0.00	O
ATOM	2960	CB	TYR B 683	47.267	61.402	36.541	1.00	0.00	C
ATOM	2961	CG	TYR B 683	48.626	62.000	36.635	1.00	0.00	C
ATOM	2962	CD1	TYR B 683	48.949	62.829	37.685	1.00	0.00	C
ATOM	2963	CD2	TYR B 683	49.569	61.756	35.665	1.00	0.00	C
ATOM	2964	CE1	TYR B 683	50.198	63.394	37.774	1.00	0.00	C
ATOM	2965	CE2	TYR B 683	50.820	62.319	35.750	1.00	0.00	C
ATOM	2966	CZ	TYR B 683	51.136	63.137	36.806	1.00	0.00	C
ATOM	2967	OH	TYR B 683	52.422	63.714	36.888	1.00	0.00	O
ATOM	2968	N	GLY B 684	45.204	59.036	36.942	1.00	0.00	N
ATOM	2969	CA	GLY B 684	43.813	58.718	36.983	1.00	0.00	C
ATOM	2970	C	GLY B 684	43.104	59.726	36.144	1.00	0.00	C
ATOM	2971	O	GLY B 684	43.618	60.170	35.117	1.00	0.00	O
ATOM	2972	N	GLU B 685	41.889	60.099	36.577	1.00	0.00	N
ATOM	2973	CA	GLU B 685	41.041	61.032	35.907	1.00	0.00	C
ATOM	2974	C	GLU B 685	41.726	62.356	35.854	1.00	0.00	C
ATOM	2975	O	GLU B 685	41.614	63.077	34.865	1.00	0.00	O
ATOM	2976	CB	GLU B 685	39.721	61.232	36.674	1.00	0.00	C
ATOM	2977	CG	GLU B 685	38.923	62.476	36.278	1.00	0.00	C
ATOM	2978	CD	GLU B 685	38.134	62.206	35.009	1.00	0.00	C
ATOM	2979	OE1	GLU B 685	37.682	61.044	34.816	1.00	0.00	O
ATOM	2980	OE2	GLU B 685	37.969	63.170	34.219	1.00	0.00	O
ATOM	2981	N	ILE B 686	42.449	62.720	36.927	1.00	0.00	N
ATOM	2982	CA	ILE B 686	43.072	64.007	36.955	1.00	0.00	C
ATOM	2983	C	ILE B 686	44.104	64.061	35.880	1.00	0.00	C
ATOM	2984	O	ILE B 686	44.902	63.143	35.707	1.00	0.00	O
ATOM	2985	CB	ILE B 686	43.725	64.332	38.271	1.00	0.00	C

ATOM	2986	CG1 ILE B 686	42.682	64.340	39.405	1.00	0.00	C
ATOM	2987	CG2 ILE B 686	44.442	65.679	38.112	1.00	0.00	C
ATOM	2988	CD1 ILE B 686	42.100	62.961	39.720	1.00	0.00	C
ATOM	2989	N SER B 687	44.082	65.162	35.104	1.00	0.00	N
ATOM	2990	CA SER B 687	44.997	65.337	34.018	1.00	0.00	C
ATOM	2991	C SER B 687	46.328	65.703	34.584	1.00	0.00	C
ATOM	2992	O SER B 687	46.442	66.162	35.721	1.00	0.00	O
ATOM	2993	CB SER B 687	44.579	66.443	33.036	1.00	0.00	C
ATOM	2994	OG SER B 687	45.531	66.558	31.990	1.00	0.00	O
ATOM	2995	N ARG B 688	47.381	65.493	33.773	1.00	0.00	N
ATOM	2996	CA ARG B 688	48.739	65.746	34.149	1.00	0.00	C
ATOM	2997	C ARG B 688	49.047	67.194	33.933	1.00	0.00	C
ATOM	2998	O ARG B 688	48.176	67.988	33.582	1.00	0.00	O
ATOM	2999	CB ARG B 688	49.750	64.916	33.340	1.00	0.00	C
ATOM	3000	CG ARG B 688	49.679	65.164	31.833	1.00	0.00	C
ATOM	3001	CD ARG B 688	50.491	64.150	31.022	1.00	0.00	C
ATOM	3002	NE ARG B 688	49.685	62.900	30.939	1.00	0.00	N
ATOM	3003	CZ ARG B 688	50.304	61.690	30.813	1.00	0.00	C
ATOM	3004	NH1 ARG B 688	51.667	61.611	30.823	1.00	0.00	N
ATOM	3005	NH2 ARG B 688	49.557	60.554	30.674	1.00	0.00	N
ATOM	3006	N ASP B 689	50.323	67.552	34.168	1.00	0.00	N
ATOM	3007	CA ASP B 689	50.829	68.885	34.028	1.00	0.00	C
ATOM	3008	C ASP B 689	50.124	69.810	34.965	1.00	0.00	C
ATOM	3009	O ASP B 689	49.769	70.931	34.602	1.00	0.00	O
ATOM	3010	CB ASP B 689	50.696	69.453	32.603	1.00	0.00	C
ATOM	3011	CG ASP B 689	51.565	70.700	32.519	1.00	0.00	C
ATOM	3012	OD1 ASP B 689	52.254	71.011	33.527	1.00	0.00	O
ATOM	3013	OD2 ASP B 689	51.553	71.356	31.443	1.00	0.00	O
ATOM	3014	N THR B 690	49.899	69.350	36.211	1.00	0.00	N
ATOM	3015	CA THR B 690	49.335	70.197	37.221	1.00	0.00	C
ATOM	3016	C THR B 690	50.323	70.186	38.342	1.00	0.00	C
ATOM	3017	O THR B 690	51.167	69.295	38.426	1.00	0.00	O
ATOM	3018	CB THR B 690	48.024	69.717	37.782	1.00	0.00	C
ATOM	3019	CG2 THR B 690	47.001	69.628	36.637	1.00	0.00	C
ATOM	3020	OG1 THR B 690	48.182	68.454	38.409	1.00	0.00	O
ATOM	3021	N LYS B 691	50.265	71.200	39.226	1.00	0.00	N
ATOM	3022	CA LYS B 691	51.208	71.243	40.305	1.00	0.00	C
ATOM	3023	C LYS B 691	50.857	70.176	41.288	1.00	0.00	C
ATOM	3024	O LYS B 691	49.692	69.927	41.591	1.00	0.00	O
ATOM	3025	CB LYS B 691	51.219	72.581	41.057	1.00	0.00	C
ATOM	3026	CG LYS B 691	51.854	73.710	40.252	1.00	0.00	C
ATOM	3027	CD LYS B 691	51.530	75.104	40.784	1.00	0.00	C
ATOM	3028	CE LYS B 691	52.278	76.225	40.063	1.00	0.00	C
ATOM	3029	NZ LYS B 691	51.904	77.536	40.635	1.00	0.00	N1+

ATOM	3030	N	ASN B 692	51.883	69.484	41.802	1.00	0.00	N
ATOM	3031	CA	ASN B 692	51.644	68.443	42.751	1.00	0.00	C
ATOM	3032	C	ASN B 692	51.171	69.051	44.033	1.00	0.00	C
ATOM	3033	O	ASN B 692	50.270	68.530	44.684	1.00	0.00	O
ATOM	3034	CB	ASN B 692	52.901	67.618	43.060	1.00	0.00	C
ATOM	3035	CG	ASN B 692	52.456	66.334	43.743	1.00	0.00	C
ATOM	3036	ND2	ASN B 692	52.919	65.175	43.204	1.00	0.00	N
ATOM	3037	OD1	ASN B 692	51.710	66.359	44.720	1.00	0.00	O
ATOM	3038	N	TRP B 693	51.771	70.193	44.421	1.00	0.00	N
ATOM	3039	CA	TRP B 693	51.450	70.779	45.688	1.00	0.00	C
ATOM	3040	C	TRP B 693	50.005	71.149	45.693	1.00	0.00	C
ATOM	3041	O	TRP B 693	49.302	70.932	46.677	1.00	0.00	O
ATOM	3042	CB	TRP B 693	52.259	72.053	46.003	1.00	0.00	C
ATOM	3043	CG	TRP B 693	51.990	73.239	45.104	1.00	0.00	C
ATOM	3044	CD1	TRP B 693	52.621	73.637	43.962	1.00	0.00	C
ATOM	3045	CD2	TRP B 693	50.970	74.214	45.365	1.00	0.00	C
ATOM	3046	CE2	TRP B 693	51.041	75.170	44.351	1.00	0.00	C
ATOM	3047	CE3	TRP B 693	50.052	74.312	46.371	1.00	0.00	C
ATOM	3048	NE1	TRP B 693	52.059	74.802	43.497	1.00	0.00	N
ATOM	3049	CZ2	TRP B 693	50.193	76.237	44.326	1.00	0.00	C
ATOM	3050	CZ3	TRP B 693	49.194	75.389	46.341	1.00	0.00	C
ATOM	3051	CH2	TRP B 693	49.263	76.334	45.338	1.00	0.00	C
ATOM	3052	N	LYS B 694	49.520	71.713	44.573	1.00	0.00	N
ATOM	3053	CA	LYS B 694	48.160	72.155	44.516	1.00	0.00	C
ATOM	3054	C	LYS B 694	47.252	70.976	44.669	1.00	0.00	C
ATOM	3055	O	LYS B 694	46.196	71.086	45.294	1.00	0.00	O
ATOM	3056	CB	LYS B 694	47.821	72.893	43.209	1.00	0.00	C
ATOM	3057	CG	LYS B 694	47.978	72.009	41.983	1.00	0.00	C
ATOM	3058	CD	LYS B 694	47.588	72.665	40.665	1.00	0.00	C
ATOM	3059	CE	LYS B 694	48.603	73.692	40.168	1.00	0.00	C
ATOM	3060	NZ	LYS B 694	48.346	73.991	38.744	1.00	0.00	NI+
ATOM	3061	N	ILE B 695	47.632	69.813	44.115	1.00	0.00	N
ATOM	3062	CA	ILE B 695	46.799	68.649	44.200	1.00	0.00	C
ATOM	3063	C	ILE B 695	46.662	68.297	45.649	1.00	0.00	C
ATOM	3064	O	ILE B 695	45.569	68.015	46.138	1.00	0.00	O
ATOM	3065	CB	ILE B 695	47.442	67.425	43.613	1.00	0.00	C
ATOM	3066	CG1	ILE B 695	47.995	67.656	42.205	1.00	0.00	C
ATOM	3067	CG2	ILE B 695	46.389	66.310	43.656	1.00	0.00	C
ATOM	3068	CD1	ILE B 695	48.893	66.509	41.737	1.00	0.00	C
ATOM	3069	N	ILE B 696	47.797	68.298	46.371	1.00	0.00	N
ATOM	3070	CA	ILE B 696	47.818	67.912	47.750	1.00	0.00	C
ATOM	3071	C	ILE B 696	47.013	68.889	48.537	1.00	0.00	C
ATOM	3072	O	ILE B 696	46.235	68.501	49.409	1.00	0.00	O
ATOM	3073	CB	ILE B 696	49.202	67.882	48.331	1.00	0.00	C

ATOM	3074	CG1 ILE B 696	50.069	66.848	47.593	1.00	0.00	C
ATOM	3075	CG2 ILE B 696	49.077	67.612	49.841	1.00	0.00	C
ATOM	3076	CD1 ILE B 696	51.555	66.939	47.938	1.00	0.00	C
ATOM	3077	N LEU B 697	47.165	70.192	48.244	1.00	0.00	N
ATOM	3078	CA LEU B 697	46.448	71.171	49.003	1.00	0.00	C
ATOM	3079	C LEU B 697	45.007	70.877	48.786	1.00	0.00	C
ATOM	3080	O LEU B 697	44.230	70.820	49.735	1.00	0.00	O
ATOM	3081	CB LEU B 697	46.737	72.613	48.528	1.00	0.00	C
ATOM	3082	CG LEU B 697	46.191	73.754	49.422	1.00	0.00	C
ATOM	3083	CD1 LEU B 697	46.556	75.123	48.825	1.00	0.00	C
ATOM	3084	CD2 LEU B 697	44.687	73.643	49.714	1.00	0.00	C
ATOM	3085	N CYS B 698	44.634	70.606	47.524	1.00	0.00	N
ATOM	3086	CA CYS B 698	43.267	70.378	47.181	1.00	0.00	C
ATOM	3087	C CYS B 698	42.790	69.211	47.971	1.00	0.00	C
ATOM	3088	O CYS B 698	41.643	69.194	48.405	1.00	0.00	O
ATOM	3089	CB CYS B 698	43.068	70.046	45.689	1.00	0.00	C
ATOM	3090	SG CYS B 698	43.437	71.462	44.613	1.00	0.00	S
ATOM	3091	N LEU B 699	43.676	68.231	48.214	1.00	0.00	N
ATOM	3092	CA LEU B 699	43.315	67.009	48.872	1.00	0.00	C
ATOM	3093	C LEU B 699	42.750	67.275	50.229	1.00	0.00	C
ATOM	3094	O LEU B 699	41.790	66.621	50.630	1.00	0.00	O
ATOM	3095	CB LEU B 699	44.519	66.082	49.103	1.00	0.00	C
ATOM	3096	CG LEU B 699	44.142	64.767	49.807	1.00	0.00	C
ATOM	3097	CD1 LEU B 699	43.384	63.823	48.864	1.00	0.00	C
ATOM	3098	CD2 LEU B 699	45.358	64.122	50.484	1.00	0.00	C
ATOM	3099	N PHE B 700	43.346	68.188	51.020	1.00	0.00	N
ATOM	3100	CA PHE B 700	42.786	68.371	52.328	1.00	0.00	C
ATOM	3101	C PHE B 700	41.433	69.029	52.241	1.00	0.00	C
ATOM	3102	O PHE B 700	40.456	68.558	52.816	1.00	0.00	O
ATOM	3103	CB PHE B 700	43.647	69.230	53.268	1.00	0.00	C
ATOM	3104	CG PHE B 700	43.087	69.019	54.629	1.00	0.00	C
ATOM	3105	CD1 PHE B 700	43.533	67.970	55.402	1.00	0.00	C
ATOM	3106	CD2 PHE B 700	42.110	69.847	55.134	1.00	0.00	C
ATOM	3107	CE1 PHE B 700	43.026	67.753	56.660	1.00	0.00	C
ATOM	3108	CE2 PHE B 700	41.599	69.632	56.392	1.00	0.00	C
ATOM	3109	CZ PHE B 700	42.055	68.586	57.157	1.00	0.00	C
ATOM	3110	N ILE B 701	41.397	70.146	51.490	1.00	0.00	N
ATOM	3111	CA ILE B 701	40.365	71.110	51.191	1.00	0.00	C
ATOM	3112	C ILE B 701	39.271	70.614	50.264	1.00	0.00	C
ATOM	3113	O ILE B 701	38.294	71.318	50.024	1.00	0.00	O
ATOM	3114	CB ILE B 701	40.926	72.475	50.827	1.00	0.00	C
ATOM	3115	CG1 ILE B 701	39.820	73.514	50.575	1.00	0.00	C
ATOM	3116	CG2 ILE B 701	41.972	72.340	49.719	1.00	0.00	C
ATOM	3117	CD1 ILE B 701	39.020	73.873	51.824	1.00	0.00	C

ATOM	3118	N	ILE B 702	39.386	69.395	49.698	1.00	0.00	N
ATOM	3119	CA	ILE B 702	38.635	68.967	48.541	1.00	0.00	C
ATOM	3120	C	ILE B 702	37.169	69.303	48.530	1.00	0.00	C
ATOM	3121	O	ILE B 702	36.771	69.835	47.496	1.00	0.00	O
ATOM	3122	CB	ILE B 702	38.651	67.472	48.317	1.00	0.00	C
ATOM	3123	CG1	ILE B 702	37.979	66.745	49.491	1.00	0.00	C
ATOM	3124	CG2	ILE B 702	40.081	66.986	48.042	1.00	0.00	C
ATOM	3125	CD1	ILE B 702	37.671	65.274	49.212	1.00	0.00	C
ATOM	3126	N	PRO B 703	36.325	69.067	49.506	1.00	0.00	N
ATOM	3127	CA	PRO B 703	34.909	69.328	49.343	1.00	0.00	C
ATOM	3128	C	PRO B 703	34.580	70.704	48.829	1.00	0.00	C
ATOM	3129	O	PRO B 703	33.811	70.801	47.873	1.00	0.00	O
ATOM	3130	CB	PRO B 703	34.301	69.102	50.723	1.00	0.00	C
ATOM	3131	CG	PRO B 703	35.444	69.495	51.674	1.00	0.00	C
ATOM	3132	CD	PRO B 703	36.719	69.107	50.905	1.00	0.00	C
ATOM	3133	N	LEU B 704	35.088	71.773	49.471	1.00	0.00	N
ATOM	3134	CA	LEU B 704	34.822	73.105	48.997	1.00	0.00	C
ATOM	3135	C	LEU B 704	35.648	73.432	47.781	1.00	0.00	C
ATOM	3136	O	LEU B 704	35.124	73.798	46.732	1.00	0.00	O
ATOM	3137	CB	LEU B 704	35.171	74.157	50.075	1.00	0.00	C
ATOM	3138	CG	LEU B 704	34.687	75.610	49.846	1.00	0.00	C
ATOM	3139	CD1	LEU B 704	35.176	76.499	50.995	1.00	0.00	C
ATOM	3140	CD2	LEU B 704	35.055	76.211	48.480	1.00	0.00	C
ATOM	3141	N	VAL B 705	36.981	73.287	47.935	1.00	0.00	N
ATOM	3142	CA	VAL B 705	38.023	73.717	47.031	1.00	0.00	C
ATOM	3143	C	VAL B 705	38.163	72.912	45.776	1.00	0.00	C
ATOM	3144	O	VAL B 705	38.561	73.444	44.741	1.00	0.00	O
ATOM	3145	CB	VAL B 705	39.373	73.680	47.667	1.00	0.00	C
ATOM	3146	CG1	VAL B 705	39.754	72.204	47.828	1.00	0.00	C
ATOM	3147	CG2	VAL B 705	40.358	74.491	46.806	1.00	0.00	C
ATOM	3148	N	GLY B 706	37.869	71.604	45.833	1.00	0.00	N
ATOM	3149	CA	GLY B 706	38.196	70.702	44.773	1.00	0.00	C
ATOM	3150	C	GLY B 706	37.545	71.085	43.482	1.00	0.00	C
ATOM	3151	O	GLY B 706	38.094	70.824	42.413	1.00	0.00	O
ATOM	3152	N	CYS B 707	36.341	71.671	43.536	1.00	0.00	N
ATOM	3153	CA	CYS B 707	35.635	71.908	42.314	1.00	0.00	C
ATOM	3154	C	CYS B 707	36.392	72.785	41.359	1.00	0.00	C
ATOM	3155	O	CYS B 707	36.600	72.409	40.206	1.00	0.00	O
ATOM	3156	CB	CYS B 707	34.268	72.580	42.534	1.00	0.00	C
ATOM	3157	SG	CYS B 707	33.081	71.517	43.408	1.00	0.00	S
ATOM	3158	N	GLY B 708	36.829	73.976	41.804	1.00	0.00	N
ATOM	3159	CA	GLY B 708	37.365	74.924	40.864	1.00	0.00	C
ATOM	3160	C	GLY B 708	38.686	74.577	40.233	1.00	0.00	C
ATOM	3161	O	GLY B 708	38.799	74.562	39.007	1.00	0.00	O

ATOM	3162	N	PHE B 709	39.723	74.286	41.041	1.00	0.00	N
ATOM	3163	CA	PHE B 709	41.040	74.203	40.467	1.00	0.00	C
ATOM	3164	C	PHE B 709	41.297	72.989	39.638	1.00	0.00	C
ATOM	3165	O	PHE B 709	41.910	73.092	38.578	1.00	0.00	O
ATOM	3166	CB	PHE B 709	42.195	74.282	41.476	1.00	0.00	C
ATOM	3167	CG	PHE B 709	43.389	74.546	40.620	1.00	0.00	C
ATOM	3168	CD1	PHE B 709	43.730	75.839	40.302	1.00	0.00	C
ATOM	3169	CD2	PHE B 709	44.151	73.520	40.110	1.00	0.00	C
ATOM	3170	CE1	PHE B 709	44.817	76.109	39.505	1.00	0.00	C
ATOM	3171	CE2	PHE B 709	45.236	73.785	39.307	1.00	0.00	C
ATOM	3172	CZ	PHE B 709	45.574	75.079	39.002	1.00	0.00	C
ATOM	3173	N	VAL B 710	40.842	71.804	40.086	1.00	0.00	N
ATOM	3174	CA	VAL B 710	41.278	70.600	39.438	1.00	0.00	C
ATOM	3175	C	VAL B 710	40.935	70.605	37.980	1.00	0.00	C
ATOM	3176	O	VAL B 710	39.782	70.736	37.568	1.00	0.00	O
ATOM	3177	CB	VAL B 710	40.699	69.350	40.034	1.00	0.00	C
ATOM	3178	CG1	VAL B 710	41.116	69.273	41.503	1.00	0.00	C
ATOM	3179	CG2	VAL B 710	39.180	69.360	39.838	1.00	0.00	C
ATOM	3180	N	SER B 711	41.980	70.447	37.146	1.00	0.00	N
ATOM	3181	CA	SER B 711	41.723	70.361	35.744	1.00	0.00	C
ATOM	3182	C	SER B 711	41.946	68.930	35.400	1.00	0.00	C
ATOM	3183	O	SER B 711	43.051	68.516	35.061	1.00	0.00	O
ATOM	3184	CB	SER B 711	42.715	71.162	34.878	1.00	0.00	C
ATOM	3185	OG	SER B 711	42.621	72.549	35.163	1.00	0.00	O
ATOM	3186	N	PHE B 712	40.871	68.135	35.473	1.00	0.00	N
ATOM	3187	CA	PHE B 712	40.935	66.742	35.166	1.00	0.00	C
ATOM	3188	C	PHE B 712	40.449	66.563	33.770	1.00	0.00	C
ATOM	3189	O	PHE B 712	40.029	67.528	33.132	1.00	0.00	O
ATOM	3190	CB	PHE B 712	40.118	65.885	36.156	1.00	0.00	C
ATOM	3191	CG	PHE B 712	38.736	66.444	36.249	1.00	0.00	C
ATOM	3192	CD1	PHE B 712	38.510	67.611	36.943	1.00	0.00	C
ATOM	3193	CD2	PHE B 712	37.665	65.800	35.677	1.00	0.00	C
ATOM	3194	CE1	PHE B 712	37.242	68.136	37.042	1.00	0.00	C
ATOM	3195	CE2	PHE B 712	36.395	66.320	35.771	1.00	0.00	C
ATOM	3196	CZ	PHE B 712	36.180	67.491	36.454	1.00	0.00	C
ATOM	3197	N	ARG B 713	40.537	65.315	33.248	1.00	0.00	N
ATOM	3198	CA	ARG B 713	40.036	65.028	31.931	1.00	0.00	C
ATOM	3199	C	ARG B 713	38.622	65.537	31.927	1.00	0.00	C
ATOM	3200	O	ARG B 713	37.997	65.677	32.972	1.00	0.00	O
ATOM	3201	CB	ARG B 713	40.041	63.532	31.565	1.00	0.00	C
ATOM	3202	CG	ARG B 713	41.458	62.989	31.336	1.00	0.00	C
ATOM	3203	CD	ARG B 713	41.506	61.539	30.838	1.00	0.00	C
ATOM	3204	NE	ARG B 713	42.930	61.229	30.524	1.00	0.00	N
ATOM	3205	CZ	ARG B 713	43.246	60.185	29.704	1.00	0.00	C

ATOM	3206	NH1 ARG B 713	42.262	59.389	29.195	1.00	0.00	N
ATOM	3207	NH2 ARG B 713	44.551	59.943	29.384	1.00	0.00	N
ATOM	3208	N LYS B 714	38.051	65.762	30.742	1.00	0.00	N
ATOM	3209	CA LYS B 714	36.912	66.623	30.557	1.00	0.00	C
ATOM	3210	C LYS B 714	35.733	66.466	31.497	1.00	0.00	C
ATOM	3211	O LYS B 714	35.316	67.479	32.046	1.00	0.00	O
ATOM	3212	CB LYS B 714	36.373	66.502	29.122	1.00	0.00	C
ATOM	3213	CG LYS B 714	35.358	67.577	28.740	1.00	0.00	C
ATOM	3214	CD LYS B 714	35.099	67.637	27.233	1.00	0.00	C
ATOM	3215	CE LYS B 714	34.078	68.699	26.827	1.00	0.00	C
ATOM	3216	NZ LYS B 714	33.879	68.668	25.361	1.00	0.00	NI+
ATOM	3217	N LYS B 715	35.178	65.263	31.743	1.00	0.00	N
ATOM	3218	CA LYS B 715	33.974	65.048	32.536	1.00	0.00	C
ATOM	3219	C LYS B 715	32.947	66.139	32.340	1.00	0.00	C
ATOM	3220	O LYS B 715	32.691	66.944	33.235	1.00	0.00	O
ATOM	3221	CB LYS B 715	34.272	64.973	34.039	1.00	0.00	C
ATOM	3222	CG LYS B 715	35.336	63.930	34.366	1.00	0.00	C
ATOM	3223	CD LYS B 715	34.949	62.519	33.936	1.00	0.00	C
ATOM	3224	CE LYS B 715	34.367	61.702	35.085	1.00	0.00	C
ATOM	3225	NZ LYS B 715	33.197	62.407	35.651	1.00	0.00	NI+
ATOM	3226	N PRO B 716	32.314	66.126	31.191	1.00	0.00	N
ATOM	3227	CA PRO B 716	31.342	67.115	30.781	1.00	0.00	C
ATOM	3228	C PRO B 716	29.956	67.050	31.348	1.00	0.00	C
ATOM	3229	O PRO B 716	29.198	67.977	31.070	1.00	0.00	O
ATOM	3230	CB PRO B 716	31.305	67.058	29.253	1.00	0.00	C
ATOM	3231	CG PRO B 716	31.856	65.665	28.909	1.00	0.00	C
ATOM	3232	CD PRO B 716	32.830	65.377	30.056	1.00	0.00	C
ATOM	3233	N VAL B 717	29.575	66.004	32.113	1.00	0.00	N
ATOM	3234	CA VAL B 717	28.191	65.873	32.500	1.00	0.00	C
ATOM	3235	C VAL B 717	27.707	67.110	33.185	1.00	0.00	C
ATOM	3236	O VAL B 717	28.346	67.634	34.094	1.00	0.00	O
ATOM	3237	CB VAL B 717	27.927	64.712	33.415	1.00	0.00	C
ATOM	3238	CG1 VAL B 717	28.665	64.952	34.741	1.00	0.00	C
ATOM	3239	CG2 VAL B 717	26.403	64.555	33.568	1.00	0.00	C
ATOM	3240	N ASP B 718	26.546	67.620	32.720	1.00	0.00	N
ATOM	3241	CA ASP B 718	25.938	68.798	33.266	1.00	0.00	C
ATOM	3242	C ASP B 718	24.935	68.403	34.287	1.00	0.00	C
ATOM	3243	O ASP B 718	24.996	67.318	34.863	1.00	0.00	O
ATOM	3244	CB ASP B 718	25.202	69.681	32.244	1.00	0.00	C
ATOM	3245	CG ASP B 718	26.224	70.600	31.612	1.00	0.00	C
ATOM	3246	OD1 ASP B 718	27.315	70.761	32.219	1.00	0.00	O
ATOM	3247	OD2 ASP B 718	25.927	71.170	30.527	1.00	0.00	O
ATOM	3248	N LYS B 719	23.983	69.320	34.537	1.00	0.00	N
ATOM	3249	CA LYS B 719	22.962	69.092	35.512	1.00	0.00	C

ATOM	3250	C	LYS B 719	23.635	69.004	36.833	1.00	0.00	C
ATOM	3251	O	LYS B 719	23.107	68.418	37.778	1.00	0.00	O
ATOM	3252	CB	LYS B 719	22.207	67.773	35.281	1.00	0.00	C
ATOM	3253	CG	LYS B 719	21.308	67.777	34.044	1.00	0.00	C
ATOM	3254	CD	LYS B 719	20.114	68.727	34.159	1.00	0.00	C
ATOM	3255	CE	LYS B 719	19.010	68.191	35.075	1.00	0.00	C
ATOM	3256	NZ	LYS B 719	17.886	69.154	35.140	1.00	0.00	NI+
HETATM	3257	N	HIE B 720	24.831	69.610	36.926	1.00	0.00	N
HETATM	3258	CA	HIE B 720	25.594	69.600	38.139	1.00	0.00	C
HETATM	3259	C	HIE B 720	25.898	68.179	38.476	1.00	0.00	C
HETATM	3260	O	HIE B 720	26.252	67.861	39.609	1.00	0.00	O
HETATM	3261	CB	HIE B 720	24.847	70.234	39.326	1.00	0.00	C
HETATM	3262	CG	HIE B 720	24.626	71.707	39.159	1.00	0.00	C
HETATM	3263	CD2	HIE B 720	23.577	72.387	38.617	1.00	0.00	C
HETATM	3264	ND1	HIE B 720	25.528	72.670	39.558	1.00	0.00	N
HETATM	3265	CE1	HIE B 720	24.987	73.871	39.242	1.00	0.00	C
HETATM	3266	NE2	HIE B 720	23.803	73.750	38.668	1.00	0.00	N
ATOM	3267	N	LYS B 721	25.771	67.287	37.477	1.00	0.00	N
ATOM	3268	CA	LYS B 721	26.132	65.913	37.652	1.00	0.00	C
ATOM	3269	C	LYS B 721	27.609	65.911	37.795	1.00	0.00	C
ATOM	3270	O	LYS B 721	28.185	65.143	38.557	1.00	0.00	O
ATOM	3271	CB	LYS B 721	25.825	65.031	36.430	1.00	0.00	C
ATOM	3272	CG	LYS B 721	24.405	64.475	36.380	1.00	0.00	C
ATOM	3273	CD	LYS B 721	24.110	63.466	37.491	1.00	0.00	C
ATOM	3274	CE	LYS B 721	24.218	64.046	38.901	1.00	0.00	C
ATOM	3275	NZ	LYS B 721	23.925	62.999	39.905	1.00	0.00	NI+
ATOM	3276	N	LYS B 722	28.245	66.840	37.063	1.00	0.00	N
ATOM	3277	CA	LYS B 722	29.667	66.875	36.940	1.00	0.00	C
ATOM	3278	C	LYS B 722	30.326	66.990	38.272	1.00	0.00	C
ATOM	3279	O	LYS B 722	31.337	66.335	38.511	1.00	0.00	O
ATOM	3280	CB	LYS B 722	30.172	68.054	36.091	1.00	0.00	C
ATOM	3281	CG	LYS B 722	29.828	69.429	36.669	1.00	0.00	C
ATOM	3282	CD	LYS B 722	28.325	69.688	36.788	1.00	0.00	C
ATOM	3283	CE	LYS B 722	27.989	71.097	37.282	1.00	0.00	C
ATOM	3284	NZ	LYS B 722	28.096	72.065	36.166	1.00	0.00	NI+
ATOM	3285	N	LEU B 723	29.784	67.808	39.189	1.00	0.00	N
ATOM	3286	CA	LEU B 723	30.472	68.024	40.426	1.00	0.00	C
ATOM	3287	C	LEU B 723	30.635	66.721	41.156	1.00	0.00	C
ATOM	3288	O	LEU B 723	31.743	66.369	41.558	1.00	0.00	O
ATOM	3289	CB	LEU B 723	29.700	69.031	41.315	1.00	0.00	C
ATOM	3290	CG	LEU B 723	30.331	69.441	42.667	1.00	0.00	C
ATOM	3291	CD1	LEU B 723	29.510	70.569	43.312	1.00	0.00	C
ATOM	3292	CD2	LEU B 723	30.488	68.265	43.643	1.00	0.00	C
ATOM	3293	N	LEU B 724	29.541	65.948	41.317	1.00	0.00	N

ATOM	3294	CA	LEU B 724	29.610	64.732	42.082	1.00	0.00	C
ATOM	3295	C	LEU B 724	30.509	63.760	41.398	1.00	0.00	C
ATOM	3296	O	LEU B 724	31.381	63.153	42.021	1.00	0.00	O
ATOM	3297	CB	LEU B 724	28.250	64.019	42.206	1.00	0.00	C
ATOM	3298	CG	LEU B 724	27.176	64.829	42.952	1.00	0.00	C
ATOM	3299	CD1	LEU B 724	27.576	65.062	44.418	1.00	0.00	C
ATOM	3300	CD2	LEU B 724	26.826	66.121	42.201	1.00	0.00	C
ATOM	3301	N	TRP B 725	30.333	63.611	40.075	1.00	0.00	N
ATOM	3302	CA	TRP B 725	31.090	62.652	39.336	1.00	0.00	C
ATOM	3303	C	TRP B 725	32.530	63.038	39.421	1.00	0.00	C
ATOM	3304	O	TRP B 725	33.405	62.188	39.565	1.00	0.00	O
ATOM	3305	CB	TRP B 725	30.681	62.577	37.854	1.00	0.00	C
ATOM	3306	CG	TRP B 725	29.305	61.991	37.621	1.00	0.00	C
ATOM	3307	CD1	TRP B 725	28.096	62.616	37.513	1.00	0.00	C
ATOM	3308	CD2	TRP B 725	29.046	60.584	37.475	1.00	0.00	C
ATOM	3309	CE2	TRP B 725	27.670	60.438	37.286	1.00	0.00	C
ATOM	3310	CE3	TRP B 725	29.883	59.507	37.497	1.00	0.00	C
ATOM	3311	NE1	TRP B 725	27.101	61.693	37.315	1.00	0.00	N
ATOM	3312	CZ2	TRP B 725	27.109	59.203	37.117	1.00	0.00	C
ATOM	3313	CZ3	TRP B 725	29.313	58.265	37.322	1.00	0.00	C
ATOM	3314	CH2	TRP B 725	27.953	58.117	37.138	1.00	0.00	C
ATOM	3315	N	TYR B 726	32.814	64.348	39.357	1.00	0.00	N
ATOM	3316	CA	TYR B 726	34.174	64.780	39.395	1.00	0.00	C
ATOM	3317	C	TYR B 726	34.809	64.357	40.675	1.00	0.00	C
ATOM	3318	O	TYR B 726	35.935	63.860	40.669	1.00	0.00	O
ATOM	3319	CB	TYR B 726	34.373	66.301	39.321	1.00	0.00	C
ATOM	3320	CG	TYR B 726	35.744	66.482	39.876	1.00	0.00	C
ATOM	3321	CD1	TYR B 726	36.852	66.080	39.163	1.00	0.00	C
ATOM	3322	CD2	TYR B 726	35.913	67.051	41.118	1.00	0.00	C
ATOM	3323	CE1	TYR B 726	38.110	66.237	39.690	1.00	0.00	C
ATOM	3324	CE2	TYR B 726	37.167	67.210	41.649	1.00	0.00	C
ATOM	3325	CZ	TYR B 726	38.265	66.800	40.932	1.00	0.00	C
ATOM	3326	OH	TYR B 726	39.554	66.966	41.474	1.00	0.00	O
ATOM	3327	N	TYR B 727	34.115	64.538	41.808	1.00	0.00	N
ATOM	3328	CA	TYR B 727	34.731	64.202	43.057	1.00	0.00	C
ATOM	3329	C	TYR B 727	35.060	62.750	43.098	1.00	0.00	C
ATOM	3330	O	TYR B 727	36.152	62.378	43.530	1.00	0.00	O
ATOM	3331	CB	TYR B 727	33.873	64.542	44.290	1.00	0.00	C
ATOM	3332	CG	TYR B 727	34.047	65.996	44.558	1.00	0.00	C
ATOM	3333	CD1	TYR B 727	35.130	66.414	45.292	1.00	0.00	C
ATOM	3334	CD2	TYR B 727	33.158	66.935	44.088	1.00	0.00	C
ATOM	3335	CE1	TYR B 727	35.328	67.748	45.562	1.00	0.00	C
ATOM	3336	CE2	TYR B 727	33.350	68.271	44.354	1.00	0.00	C
ATOM	3337	CZ	TYR B 727	34.436	68.677	45.092	1.00	0.00	C

ATOM	3338	OH	TYR	B 727	34.638	70.046	45.370	1.00	0.00	O
ATOM	3339	N	VAL	B 728	34.146	61.876	42.648	1.00	0.00	N
ATOM	3340	CA	VAL	B 728	34.455	60.479	42.736	1.00	0.00	C
ATOM	3341	C	VAL	B 728	35.657	60.202	41.885	1.00	0.00	C
ATOM	3342	O	VAL	B 728	36.556	59.466	42.291	1.00	0.00	O
ATOM	3343	CB	VAL	B 728	33.334	59.577	42.293	1.00	0.00	C
ATOM	3344	CG1	VAL	B 728	33.091	59.754	40.786	1.00	0.00	C
ATOM	3345	CG2	VAL	B 728	33.693	58.134	42.692	1.00	0.00	C
ATOM	3346	N	ALA	B 729	35.714	60.807	40.683	1.00	0.00	N
ATOM	3347	CA	ALA	B 729	36.796	60.596	39.764	1.00	0.00	C
ATOM	3348	C	ALA	B 729	38.062	61.073	40.396	1.00	0.00	C
ATOM	3349	O	ALA	B 729	39.125	60.487	40.204	1.00	0.00	O
ATOM	3350	CB	ALA	B 729	36.622	61.360	38.439	1.00	0.00	C
ATOM	3351	N	PHE	B 730	37.989	62.181	41.155	1.00	0.00	N
ATOM	3352	CA	PHE	B 730	39.163	62.688	41.802	1.00	0.00	C
ATOM	3353	C	PHE	B 730	39.631	61.656	42.779	1.00	0.00	C
ATOM	3354	O	PHE	B 730	40.828	61.401	42.899	1.00	0.00	O
ATOM	3355	CB	PHE	B 730	38.901	63.989	42.582	1.00	0.00	C
ATOM	3356	CG	PHE	B 730	40.182	64.385	43.235	1.00	0.00	C
ATOM	3357	CD1	PHE	B 730	41.192	64.970	42.506	1.00	0.00	C
ATOM	3358	CD2	PHE	B 730	40.373	64.178	44.583	1.00	0.00	C
ATOM	3359	CE1	PHE	B 730	42.371	65.340	43.106	1.00	0.00	C
ATOM	3360	CE2	PHE	B 730	41.549	64.545	45.188	1.00	0.00	C
ATOM	3361	CZ	PHE	B 730	42.553	65.128	44.452	1.00	0.00	C
ATOM	3362	N	PHE	B 731	38.679	61.027	43.489	1.00	0.00	N
ATOM	3363	CA	PHE	B 731	38.962	60.040	44.490	1.00	0.00	C
ATOM	3364	C	PHE	B 731	39.595	58.833	43.877	1.00	0.00	C
ATOM	3365	O	PHE	B 731	40.364	58.143	44.540	1.00	0.00	O
ATOM	3366	CB	PHE	B 731	37.730	59.581	45.290	1.00	0.00	C
ATOM	3367	CG	PHE	B 731	37.447	60.617	46.327	1.00	0.00	C
ATOM	3368	CD1	PHE	B 731	38.156	60.612	47.504	1.00	0.00	C
ATOM	3369	CD2	PHE	B 731	36.484	61.578	46.135	1.00	0.00	C
ATOM	3370	CE1	PHE	B 731	37.916	61.553	48.479	1.00	0.00	C
ATOM	3371	CE2	PHE	B 731	36.238	62.522	47.105	1.00	0.00	C
ATOM	3372	CZ	PHE	B 731	36.954	62.513	48.278	1.00	0.00	C
ATOM	3373	N	THR	B 732	39.264	58.518	42.612	1.00	0.00	N
ATOM	3374	CA	THR	B 732	39.768	57.326	41.990	1.00	0.00	C
ATOM	3375	C	THR	B 732	41.265	57.357	41.842	1.00	0.00	C
ATOM	3376	O	THR	B 732	41.904	56.310	41.930	1.00	0.00	O
ATOM	3377	CB	THR	B 732	39.201	57.052	40.625	1.00	0.00	C
ATOM	3378	CG2	THR	B 732	37.663	57.066	40.723	1.00	0.00	C
ATOM	3379	OG1	THR	B 732	39.642	58.021	39.689	1.00	0.00	O
ATOM	3380	N	SER	B 733	41.881	58.534	41.602	1.00	0.00	N
ATOM	3381	CA	SER	B 733	43.296	58.566	41.322	1.00	0.00	C

ATOM	3382	C	SER B 733	44.092	57.989	42.453	1.00	0.00	C
ATOM	3383	O	SER B 733	43.883	58.289	43.627	1.00	0.00	O
ATOM	3384	CB	SER B 733	43.843	59.978	41.033	1.00	0.00	C
ATOM	3385	OG	SER B 733	43.767	60.785	42.198	1.00	0.00	O
ATOM	3386	N	PRO B 734	45.013	57.132	42.084	1.00	0.00	N
ATOM	3387	CA	PRO B 734	45.895	56.493	43.026	1.00	0.00	C
ATOM	3388	C	PRO B 734	46.867	57.439	43.641	1.00	0.00	C
ATOM	3389	O	PRO B 734	47.352	57.160	44.736	1.00	0.00	O
ATOM	3390	CB	PRO B 734	46.575	55.357	42.265	1.00	0.00	C
ATOM	3391	CG	PRO B 734	45.571	55.007	41.155	1.00	0.00	C
ATOM	3392	CD	PRO B 734	44.823	56.324	40.888	1.00	0.00	C
ATOM	3393	N	PHE B 735	47.199	58.544	42.946	1.00	0.00	N
ATOM	3394	CA	PHE B 735	48.137	59.480	43.487	1.00	0.00	C
ATOM	3395	C	PHE B 735	47.530	60.062	44.717	1.00	0.00	C
ATOM	3396	O	PHE B 735	48.177	60.150	45.762	1.00	0.00	O
ATOM	3397	CB	PHE B 735	48.444	60.644	42.526	1.00	0.00	C
ATOM	3398	CG	PHE B 735	49.421	61.548	43.200	1.00	0.00	C
ATOM	3399	CD1	PHE B 735	50.763	61.252	43.216	1.00	0.00	C
ATOM	3400	CD2	PHE B 735	48.988	62.699	43.815	1.00	0.00	C
ATOM	3401	CE1	PHE B 735	51.658	62.094	43.839	1.00	0.00	C
ATOM	3402	CE2	PHE B 735	49.872	63.544	44.441	1.00	0.00	C
ATOM	3403	CZ	PHE B 735	51.213	63.238	44.454	1.00	0.00	C
ATOM	3404	N	VAL B 736	46.251	60.466	44.628	1.00	0.00	N
ATOM	3405	CA	VAL B 736	45.617	61.057	45.765	1.00	0.00	C
ATOM	3406	C	VAL B 736	45.485	60.008	46.819	1.00	0.00	C
ATOM	3407	O	VAL B 736	45.651	60.281	48.003	1.00	0.00	O
ATOM	3408	CB	VAL B 736	44.253	61.625	45.487	1.00	0.00	C
ATOM	3409	CG1	VAL B 736	44.400	62.716	44.414	1.00	0.00	C
ATOM	3410	CG2	VAL B 736	43.275	60.498	45.130	1.00	0.00	C
ATOM	3411	N	VAL B 737	45.189	58.763	46.400	1.00	0.00	N
ATOM	3412	CA	VAL B 737	45.003	57.693	47.333	1.00	0.00	C
ATOM	3413	C	VAL B 737	46.278	57.484	48.086	1.00	0.00	C
ATOM	3414	O	VAL B 737	46.259	57.305	49.301	1.00	0.00	O
ATOM	3415	CB	VAL B 737	44.657	56.392	46.667	1.00	0.00	C
ATOM	3416	CG1	VAL B 737	44.577	55.295	47.740	1.00	0.00	C
ATOM	3417	CG2	VAL B 737	43.357	56.582	45.867	1.00	0.00	C
ATOM	3418	N	PHE B 738	47.421	57.509	47.379	1.00	0.00	N
ATOM	3419	CA	PHE B 738	48.683	57.272	48.015	1.00	0.00	C
ATOM	3420	C	PHE B 738	48.947	58.338	49.027	1.00	0.00	C
ATOM	3421	O	PHE B 738	49.309	58.044	50.165	1.00	0.00	O
ATOM	3422	CB	PHE B 738	49.861	57.283	47.025	1.00	0.00	C
ATOM	3423	CG	PHE B 738	51.100	57.054	47.819	1.00	0.00	C
ATOM	3424	CD1	PHE B 738	51.463	55.785	48.203	1.00	0.00	C
ATOM	3425	CD2	PHE B 738	51.901	58.112	48.175	1.00	0.00	C

ATOM	3426	CE1 PHE B 738	52.610	55.577	48.935	1.00	0.00	C
ATOM	3427	CE2 PHE B 738	53.049	57.911	48.905	1.00	0.00	C
ATOM	3428	CZ PHE B 738	53.404	56.641	49.289	1.00	0.00	C
ATOM	3429	N SER B 739	48.754	59.609	48.641	1.00	0.00	N
ATOM	3430	CA SER B 739	49.034	60.700	49.531	1.00	0.00	C
ATOM	3431	C SER B 739	48.109	60.600	50.700	1.00	0.00	C
ATOM	3432	O SER B 739	48.496	60.862	51.838	1.00	0.00	O
ATOM	3433	CB SER B 739	48.800	62.076	48.879	1.00	0.00	C
ATOM	3434	OG SER B 739	47.430	62.237	48.541	1.00	0.00	O
ATOM	3435	N TRP B 740	46.851	60.211	50.441	1.00	0.00	N
ATOM	3436	CA TRP B 740	45.885	60.115	51.488	1.00	0.00	C
ATOM	3437	C TRP B 740	46.307	59.047	52.442	1.00	0.00	C
ATOM	3438	O TRP B 740	46.240	59.223	53.657	1.00	0.00	O
ATOM	3439	CB TRP B 740	44.481	59.774	50.961	1.00	0.00	C
ATOM	3440	CG TRP B 740	43.427	59.703	52.035	1.00	0.00	C
ATOM	3441	CD1 TRP B 740	42.877	58.617	52.650	1.00	0.00	C
ATOM	3442	CD2 TRP B 740	42.823	60.860	52.634	1.00	0.00	C
ATOM	3443	CE2 TRP B 740	41.917	60.405	53.590	1.00	0.00	C
ATOM	3444	CE3 TRP B 740	43.011	62.191	52.401	1.00	0.00	C
ATOM	3445	NE1 TRP B 740	41.959	59.025	53.589	1.00	0.00	N
ATOM	3446	CZ2 TRP B 740	41.183	61.280	54.338	1.00	0.00	C
ATOM	3447	CZ3 TRP B 740	42.268	63.073	53.153	1.00	0.00	C
ATOM	3448	CH2 TRP B 740	41.371	62.626	54.101	1.00	0.00	C
ATOM	3449	N ASN B 741	46.772	57.904	51.907	1.00	0.00	N
ATOM	3450	CA ASN B 741	47.132	56.799	52.745	1.00	0.00	C
ATOM	3451	C ASN B 741	48.248	57.208	53.649	1.00	0.00	C
ATOM	3452	O ASN B 741	48.207	56.929	54.847	1.00	0.00	O
ATOM	3453	CB ASN B 741	47.610	55.576	51.944	1.00	0.00	C
ATOM	3454	CG ASN B 741	46.410	55.001	51.201	1.00	0.00	C
ATOM	3455	ND2 ASN B 741	46.641	54.547	49.940	1.00	0.00	N
ATOM	3456	OD1 ASN B 741	45.296	54.962	51.725	1.00	0.00	O
ATOM	3457	N VAL B 742	49.276	57.894	53.116	1.00	0.00	N
ATOM	3458	CA VAL B 742	50.381	58.247	53.957	1.00	0.00	C
ATOM	3459	C VAL B 742	49.905	59.182	55.027	1.00	0.00	C
ATOM	3460	O VAL B 742	50.264	59.024	56.193	1.00	0.00	O
ATOM	3461	CB VAL B 742	51.524	58.895	53.225	1.00	0.00	C
ATOM	3462	CG1 VAL B 742	52.092	57.879	52.219	1.00	0.00	C
ATOM	3463	CG2 VAL B 742	51.049	60.208	52.585	1.00	0.00	C
ATOM	3464	N VAL B 743	49.069	60.170	54.669	1.00	0.00	N
ATOM	3465	CA VAL B 743	48.625	61.124	55.643	1.00	0.00	C
ATOM	3466	C VAL B 743	47.842	60.413	56.703	1.00	0.00	C
ATOM	3467	O VAL B 743	48.035	60.648	57.895	1.00	0.00	O
ATOM	3468	CB VAL B 743	47.730	62.177	55.063	1.00	0.00	C
ATOM	3469	CG1 VAL B 743	47.247	63.085	56.207	1.00	0.00	C

ATOM	3470	CG2 VAL B 743	48.498	62.925	53.958	1.00	0.00	C
ATOM	3471	N PHE B 744	46.939	59.509	56.292	1.00	0.00	N
ATOM	3472	CA PHE B 744	46.079	58.815	57.210	1.00	0.00	C
ATOM	3473	C PHE B 744	46.906	57.960	58.109	1.00	0.00	C
ATOM	3474	O PHE B 744	46.688	57.921	59.318	1.00	0.00	O
ATOM	3475	CB PHE B 744	45.090	57.887	56.482	1.00	0.00	C
ATOM	3476	CG PHE B 744	44.173	57.281	57.488	1.00	0.00	C
ATOM	3477	CD1 PHE B 744	43.019	57.933	57.853	1.00	0.00	C
ATOM	3478	CD2 PHE B 744	44.461	56.067	58.065	1.00	0.00	C
ATOM	3479	CE1 PHE B 744	42.162	57.382	58.777	1.00	0.00	C
ATOM	3480	CE2 PHE B 744	43.608	55.510	58.991	1.00	0.00	C
ATOM	3481	CZ PHE B 744	42.454	56.166	59.347	1.00	0.00	C
ATOM	3482	N TYR B 745	47.896	57.252	57.537	1.00	0.00	N
ATOM	3483	CA TYR B 745	48.647	56.322	58.316	1.00	0.00	C
ATOM	3484	C TYR B 745	49.401	57.068	59.364	1.00	0.00	C
ATOM	3485	O TYR B 745	49.499	56.615	60.503	1.00	0.00	O
ATOM	3486	CB TYR B 745	49.654	55.495	57.506	1.00	0.00	C
ATOM	3487	CG TYR B 745	49.971	54.334	58.378	1.00	0.00	C
ATOM	3488	CD1 TYR B 745	50.868	54.432	59.413	1.00	0.00	C
ATOM	3489	CD2 TYR B 745	49.339	53.130	58.160	1.00	0.00	C
ATOM	3490	CE1 TYR B 745	51.135	53.340	60.210	1.00	0.00	C
ATOM	3491	CE2 TYR B 745	49.599	52.039	58.951	1.00	0.00	C
ATOM	3492	CZ TYR B 745	50.504	52.145	59.980	1.00	0.00	C
ATOM	3493	OH TYR B 745	50.775	51.026	60.795	1.00	0.00	O
ATOM	3494	N ILE B 746	49.969	58.236	59.007	1.00	0.00	N
ATOM	3495	CA ILE B 746	50.736	58.971	59.967	1.00	0.00	C
ATOM	3496	C ILE B 746	49.818	59.382	61.069	1.00	0.00	C
ATOM	3497	O ILE B 746	50.153	59.263	62.242	1.00	0.00	O
ATOM	3498	CB ILE B 746	51.419	60.187	59.396	1.00	0.00	C
ATOM	3499	CG1 ILE B 746	50.460	61.322	58.990	1.00	0.00	C
ATOM	3500	CG2 ILE B 746	52.242	59.679	58.210	1.00	0.00	C
ATOM	3501	CD1 ILE B 746	50.010	62.216	60.145	1.00	0.00	C
ATOM	3502	N ALA B 747	48.605	59.843	60.718	1.00	0.00	N
ATOM	3503	CA ALA B 747	47.693	60.318	61.714	1.00	0.00	C
ATOM	3504	C ALA B 747	47.399	59.179	62.632	1.00	0.00	C
ATOM	3505	O ALA B 747	47.331	59.346	63.847	1.00	0.00	O
ATOM	3506	CB ALA B 747	46.354	60.793	61.122	1.00	0.00	C
ATOM	3507	N PHE B 748	47.237	57.980	62.054	1.00	0.00	N
ATOM	3508	CA PHE B 748	46.918	56.812	62.816	1.00	0.00	C
ATOM	3509	C PHE B 748	48.046	56.555	63.764	1.00	0.00	C
ATOM	3510	O PHE B 748	47.827	56.235	64.930	1.00	0.00	O
ATOM	3511	CB PHE B 748	46.745	55.571	61.920	1.00	0.00	C
ATOM	3512	CG PHE B 748	46.418	54.403	62.782	1.00	0.00	C
ATOM	3513	CD1 PHE B 748	45.126	54.182	63.202	1.00	0.00	C

ATOM	3514	CD2 PHE B 748	47.403	53.520	63.160	1.00	0.00	C
ATOM	3515	CE1 PHE B 748	44.825	53.099	63.995	1.00	0.00	C
ATOM	3516	CE2 PHE B 748	47.107	52.437	63.951	1.00	0.00	C
ATOM	3517	CZ PHE B 748	45.816	52.224	64.370	1.00	0.00	C
ATOM	3518	N LEU B 749	49.294	56.706	63.279	1.00	0.00	N
ATOM	3519	CA LEU B 749	50.447	56.420	64.082	1.00	0.00	C
ATOM	3520	C LEU B 749	50.495	57.350	65.256	1.00	0.00	C
ATOM	3521	O LEU B 749	50.755	56.929	66.381	1.00	0.00	O
ATOM	3522	CB LEU B 749	51.760	56.563	63.298	1.00	0.00	C
ATOM	3523	CG LEU B 749	52.999	56.195	64.131	1.00	0.00	C
ATOM	3524	CD1 LEU B 749	52.914	54.737	64.600	1.00	0.00	C
ATOM	3525	CD2 LEU B 749	54.301	56.486	63.376	1.00	0.00	C
ATOM	3526	N LEU B 750	50.232	58.648	65.025	1.00	0.00	N
ATOM	3527	CA LEU B 750	50.292	59.628	66.070	1.00	0.00	C
ATOM	3528	C LEU B 750	49.246	59.334	67.105	1.00	0.00	C
ATOM	3529	O LEU B 750	49.518	59.411	68.301	1.00	0.00	O
ATOM	3530	CB LEU B 750	50.074	61.050	65.528	1.00	0.00	C
ATOM	3531	CG LEU B 750	51.315	61.626	64.815	1.00	0.00	C
ATOM	3532	CD1 LEU B 750	51.920	60.650	63.799	1.00	0.00	C
ATOM	3533	CD2 LEU B 750	50.971	62.964	64.149	1.00	0.00	C
ATOM	3534	N LEU B 751	48.026	58.968	66.670	1.00	0.00	N
ATOM	3535	CA LEU B 751	46.964	58.701	67.597	1.00	0.00	C
ATOM	3536	C LEU B 751	47.355	57.517	68.425	1.00	0.00	C
ATOM	3537	O LEU B 751	47.079	57.461	69.620	1.00	0.00	O
ATOM	3538	CB LEU B 751	45.633	58.349	66.905	1.00	0.00	C
ATOM	3539	CG LEU B 751	45.031	59.508	66.093	1.00	0.00	C
ATOM	3540	CD1 LEU B 751	43.702	59.098	65.436	1.00	0.00	C
ATOM	3541	CD2 LEU B 751	44.907	60.785	66.944	1.00	0.00	C
ATOM	3542	N PHE B 752	48.020	56.544	67.786	1.00	0.00	N
ATOM	3543	CA PHE B 752	48.432	55.319	68.404	1.00	0.00	C
ATOM	3544	C PHE B 752	49.388	55.641	69.513	1.00	0.00	C
ATOM	3545	O PHE B 752	49.279	55.100	70.611	1.00	0.00	O
ATOM	3546	CB PHE B 752	49.154	54.430	67.373	1.00	0.00	C
ATOM	3547	CG PHE B 752	49.444	53.081	67.934	1.00	0.00	C
ATOM	3548	CD1 PHE B 752	48.475	52.104	67.934	1.00	0.00	C
ATOM	3549	CD2 PHE B 752	50.690	52.785	68.438	1.00	0.00	C
ATOM	3550	CE1 PHE B 752	48.736	50.857	68.442	1.00	0.00	C
ATOM	3551	CE2 PHE B 752	50.959	51.535	68.947	1.00	0.00	C
ATOM	3552	CZ PHE B 752	49.982	50.568	68.947	1.00	0.00	C
ATOM	3553	N ALA B 753	50.357	56.537	69.245	1.00	0.00	N
ATOM	3554	CA ALA B 753	51.341	56.914	70.217	1.00	0.00	C
ATOM	3555	C ALA B 753	50.658	57.599	71.358	1.00	0.00	C
ATOM	3556	O ALA B 753	50.993	57.377	72.519	1.00	0.00	O
ATOM	3557	CB ALA B 753	52.397	57.883	69.652	1.00	0.00	C

ATOM	3558	N	TYR B 754	49.658	58.442	71.044	1.00	0.00	N
ATOM	3559	CA	TYR B 754	48.949	59.192	72.041	1.00	0.00	C
ATOM	3560	C	TYR B 754	48.310	58.213	72.961	1.00	0.00	C
ATOM	3561	O	TYR B 754	48.330	58.384	74.180	1.00	0.00	O
ATOM	3562	CB	TYR B 754	47.829	60.057	71.429	1.00	0.00	C
ATOM	3563	CG	TYR B 754	47.093	60.744	72.529	1.00	0.00	C
ATOM	3564	CD1	TYR B 754	47.626	61.850	73.148	1.00	0.00	C
ATOM	3565	CD2	TYR B 754	45.858	60.289	72.934	1.00	0.00	C
ATOM	3566	CE1	TYR B 754	46.945	62.487	74.159	1.00	0.00	C
ATOM	3567	CE2	TYR B 754	45.170	60.922	73.945	1.00	0.00	C
ATOM	3568	CZ	TYR B 754	45.716	62.022	74.558	1.00	0.00	C
ATOM	3569	OH	TYR B 754	45.014	62.673	75.597	1.00	0.00	O
ATOM	3570	N	VAL B 755	47.730	57.145	72.388	1.00	0.00	N
ATOM	3571	CA	VAL B 755	47.069	56.140	73.160	1.00	0.00	C
ATOM	3572	C	VAL B 755	48.075	55.500	74.058	1.00	0.00	C
ATOM	3573	O	VAL B 755	47.763	55.147	75.195	1.00	0.00	O
ATOM	3574	CB	VAL B 755	46.473	55.059	72.313	1.00	0.00	C
ATOM	3575	CG1	VAL B 755	45.860	54.005	73.248	1.00	0.00	C
ATOM	3576	CG2	VAL B 755	45.471	55.695	71.337	1.00	0.00	C
ATOM	3577	N	LEU B 756	49.322	55.333	73.575	1.00	0.00	N
ATOM	3578	CA	LEU B 756	50.330	54.671	74.352	1.00	0.00	C
ATOM	3579	C	LEU B 756	50.507	55.401	75.644	1.00	0.00	C
ATOM	3580	O	LEU B 756	50.504	54.792	76.711	1.00	0.00	O
ATOM	3581	CB	LEU B 756	51.714	54.710	73.675	1.00	0.00	C
ATOM	3582	CG	LEU B 756	51.857	53.812	72.433	1.00	0.00	C
ATOM	3583	CD1	LEU B 756	53.250	53.942	71.799	1.00	0.00	C
ATOM	3584	CD2	LEU B 756	51.540	52.358	72.792	1.00	0.00	C
ATOM	3585	N	LEU B 757	50.662	56.733	75.572	1.00	0.00	N
ATOM	3586	CA	LEU B 757	50.882	57.516	76.752	1.00	0.00	C
ATOM	3587	C	LEU B 757	49.626	57.480	77.578	1.00	0.00	C
ATOM	3588	O	LEU B 757	49.664	57.379	78.801	1.00	0.00	O
ATOM	3589	CB	LEU B 757	51.192	58.985	76.398	1.00	0.00	C
ATOM	3590	CG	LEU B 757	51.736	59.871	77.542	1.00	0.00	C
ATOM	3591	CD1	LEU B 757	51.999	61.298	77.041	1.00	0.00	C
ATOM	3592	CD2	LEU B 757	50.852	59.852	78.798	1.00	0.00	C
ATOM	3593	N	MET B 758	48.482	57.548	76.877	1.00	0.00	N
ATOM	3594	CA	MET B 758	47.133	57.655	77.353	1.00	0.00	C
ATOM	3595	C	MET B 758	46.663	56.420	78.075	1.00	0.00	C
ATOM	3596	O	MET B 758	45.762	56.507	78.911	1.00	0.00	O
ATOM	3597	CB	MET B 758	46.164	57.902	76.186	1.00	0.00	C
ATOM	3598	CG	MET B 758	44.727	58.196	76.607	1.00	0.00	C
ATOM	3599	SD	MET B 758	43.590	58.490	75.216	1.00	0.00	S
ATOM	3600	CE	MET B 758	42.129	58.760	76.259	1.00	0.00	C
ATOM	3601	N	ASP B 759	47.246	55.249	77.763	1.00	0.00	N

ATOM	3602	CA	ASP B 759	46.782	53.951	78.194	1.00	0.00	C
ATOM	3603	C	ASP B 759	46.324	53.922	79.623	1.00	0.00	C
ATOM	3604	O	ASP B 759	46.909	54.546	80.510	1.00	0.00	O
ATOM	3605	CB	ASP B 759	47.856	52.857	78.025	1.00	0.00	C
ATOM	3606	CG	ASP B 759	47.201	51.486	78.110	1.00	0.00	C
ATOM	3607	OD1	ASP B 759	45.943	51.420	78.070	1.00	0.00	O
ATOM	3608	OD2	ASP B 759	47.954	50.481	78.212	1.00	0.00	O
ATOM	3609	N	PHE B 760	45.208	53.192	79.852	1.00	0.00	N
ATOM	3610	CA	PHE B 760	44.599	53.024	81.141	1.00	0.00	C
ATOM	3611	C	PHE B 760	44.431	51.546	81.340	1.00	0.00	C
ATOM	3612	O	PHE B 760	44.396	50.785	80.375	1.00	0.00	O
ATOM	3613	CB	PHE B 760	43.215	53.696	81.224	1.00	0.00	C
ATOM	3614	CG	PHE B 760	42.736	53.657	82.634	1.00	0.00	C
ATOM	3615	CD1	PHE B 760	43.214	54.552	83.561	1.00	0.00	C
ATOM	3616	CD2	PHE B 760	41.796	52.734	83.030	1.00	0.00	C
ATOM	3617	CE1	PHE B 760	42.771	54.518	84.863	1.00	0.00	C
ATOM	3618	CE2	PHE B 760	41.348	52.693	84.327	1.00	0.00	C
ATOM	3619	CZ	PHE B 760	41.836	53.587	85.250	1.00	0.00	C
HETATM	3620	N	HIE B 761	44.346	51.091	82.608	1.00	0.00	N
HETATM	3621	CA	HIE B 761	44.237	49.685	82.883	1.00	0.00	C
HETATM	3622	C	HIE B 761	42.843	49.231	82.605	1.00	0.00	C
HETATM	3623	O	HIE B 761	41.904	50.024	82.651	1.00	0.00	O
HETATM	3624	CB	HIE B 761	44.564	49.306	84.339	1.00	0.00	C
HETATM	3625	CG	HIE B 761	44.599	47.821	84.555	1.00	0.00	C
HETATM	3626	CD2	HIE B 761	45.647	46.955	84.516	1.00	0.00	C
HETATM	3627	ND1	HIE B 761	43.491	47.052	84.835	1.00	0.00	N
HETATM	3628	CE1	HIE B 761	43.921	45.771	84.945	1.00	0.00	C
HETATM	3629	NE2	HIE B 761	45.223	45.663	84.761	1.00	0.00	N
ATOM	3630	N	SER B 762	42.683	47.940	82.252	1.00	0.00	N
ATOM	3631	CA	SER B 762	41.375	47.392	82.038	1.00	0.00	C
ATOM	3632	C	SER B 762	40.917	47.779	80.675	1.00	0.00	C
ATOM	3633	O	SER B 762	41.707	47.878	79.740	1.00	0.00	O
ATOM	3634	CB	SER B 762	40.302	47.845	83.048	1.00	0.00	C
ATOM	3635	OG	SER B 762	40.625	47.378	84.348	1.00	0.00	O
ATOM	3636	N	VAL B 763	39.593	47.981	80.541	1.00	0.00	N
ATOM	3637	CA	VAL B 763	39.016	48.325	79.277	1.00	0.00	C
ATOM	3638	C	VAL B 763	39.532	49.665	78.864	1.00	0.00	C
ATOM	3639	O	VAL B 763	39.668	50.595	79.659	1.00	0.00	O
ATOM	3640	CB	VAL B 763	37.517	48.400	79.305	1.00	0.00	C
ATOM	3641	CG1	VAL B 763	37.101	49.508	80.285	1.00	0.00	C
ATOM	3642	CG2	VAL B 763	37.011	48.621	77.869	1.00	0.00	C
ATOM	3643	N	PRO B 764	39.855	49.720	77.600	1.00	0.00	N
ATOM	3644	CA	PRO B 764	40.357	50.936	77.012	1.00	0.00	C
ATOM	3645	C	PRO B 764	39.269	51.906	76.693	1.00	0.00	C

ATOM 3646 O PRO B 764	38.099	51.527	76.707	1.00	0.00	O
ATOM 3647 CB PRO B 764	41.134	50.514	75.767	1.00	0.00	C
ATOM 3648 CG PRO B 764	41.576	49.077	76.076	1.00	0.00	C
ATOM 3649 CD PRO B 764	40.481	48.544	77.011	1.00	0.00	C
HETATM 3650 N HIE B 765	39.647	53.164	76.398	1.00	0.00	N
HETATM 3651 CA HIE B 765	38.701	54.183	76.056	1.00	0.00	C
HETATM 3652 C HIE B 765	38.279	53.899	74.646	1.00	0.00	C
HETATM 3653 O HIE B 765	38.926	53.130	73.936	1.00	0.00	O
HETATM 3654 CB HIE B 765	39.294	55.604	76.148	1.00	0.00	C
HETATM 3655 CG HIE B 765	38.258	56.672	76.357	1.00	0.00	C
HETATM 3656 CD2 HIE B 765	37.769	57.623	75.520	1.00	0.00	C
HETATM 3657 ND1 HIE B 765	37.603	56.855	77.555	1.00	0.00	N
HETATM 3658 CE1 HIE B 765	36.756	57.900	77.383	1.00	0.00	C
HETATM 3659 NE2 HIE B 765	36.822	58.401	76.162	1.00	0.00	N
ATOM 3660 N PRO B 766	37.181	54.466	74.222	1.00	0.00	N
ATOM 3661 CA PRO B 766	36.675	54.173	72.910	1.00	0.00	C
ATOM 3662 C PRO B 766	37.580	54.540	71.776	1.00	0.00	C
ATOM 3663 O PRO B 766	37.484	53.876	70.746	1.00	0.00	O
ATOM 3664 CB PRO B 766	35.292	54.815	72.855	1.00	0.00	C
ATOM 3665 CG PRO B 766	34.821	54.767	74.320	1.00	0.00	C
ATOM 3666 CD PRO B 766	36.117	54.828	75.145	1.00	0.00	C
ATOM 3667 N PRO B 767	38.406	55.540	71.873	1.00	0.00	N
ATOM 3668 CA PRO B 767	39.268	55.824	70.760	1.00	0.00	C
ATOM 3669 C PRO B 767	40.248	54.722	70.548	1.00	0.00	C
ATOM 3670 O PRO B 767	40.650	54.491	69.407	1.00	0.00	O
ATOM 3671 CB PRO B 767	39.880	57.190	71.055	1.00	0.00	C
ATOM 3672 CG PRO B 767	38.788	57.891	71.884	1.00	0.00	C
ATOM 3673 CD PRO B 767	38.045	56.746	72.596	1.00	0.00	C
ATOM 3674 N GLU B 768	40.658	54.040	71.634	1.00	0.00	N
ATOM 3675 CA GLU B 768	41.575	52.947	71.510	1.00	0.00	C
ATOM 3676 C GLU B 768	40.880	51.864	70.761	1.00	0.00	C
ATOM 3677 O GLU B 768	41.469	51.204	69.909	1.00	0.00	O
ATOM 3678 CB GLU B 768	42.006	52.372	72.871	1.00	0.00	C
ATOM 3679 CG GLU B 768	42.975	51.193	72.756	1.00	0.00	C
ATOM 3680 CD GLU B 768	44.303	51.714	72.235	1.00	0.00	C
ATOM 3681 OE1 GLU B 768	44.280	52.507	71.253	1.00	0.00	O
ATOM 3682 OE2 GLU B 768	45.359	51.332	72.810	1.00	0.00	O
ATOM 3683 N LEU B 769	39.583	51.665	71.060	1.00	0.00	N
ATOM 3684 CA LEU B 769	38.824	50.642	70.404	1.00	0.00	C
ATOM 3685 C LEU B 769	38.778	50.972	68.958	1.00	0.00	C
ATOM 3686 O LEU B 769	38.880	50.094	68.103	1.00	0.00	O
ATOM 3687 CB LEU B 769	37.377	50.538	70.906	1.00	0.00	C
ATOM 3688 CG LEU B 769	37.301	49.988	72.335	1.00	0.00	C
ATOM 3689 CD1 LEU B 769	35.851	49.835	72.816	1.00	0.00	C

ATOM	3690	CD2 LEU B 769	38.117	48.690	72.437	1.00	0.00	C
ATOM	3691	N VAL B 770	38.643	52.270	68.646	1.00	0.00	N
ATOM	3692	CA VAL B 770	38.576	52.665	67.275	1.00	0.00	C
ATOM	3693	C VAL B 770	39.849	52.243	66.626	1.00	0.00	C
ATOM	3694	O VAL B 770	39.846	51.725	65.512	1.00	0.00	O
ATOM	3695	CB VAL B 770	38.450	54.148	67.096	1.00	0.00	C
ATOM	3696	CG1 VAL B 770	38.469	54.456	65.589	1.00	0.00	C
ATOM	3697	CG2 VAL B 770	37.178	54.624	67.816	1.00	0.00	C
ATOM	3698	N LEU B 771	40.980	52.421	67.329	1.00	0.00	N
ATOM	3699	CA LEU B 771	42.255	52.086	66.767	1.00	0.00	C
ATOM	3700	C LEU B 771	42.262	50.624	66.467	1.00	0.00	C
ATOM	3701	O LEU B 771	42.814	50.195	65.454	1.00	0.00	O
ATOM	3702	CB LEU B 771	43.429	52.378	67.716	1.00	0.00	C
ATOM	3703	CG LEU B 771	43.588	53.877	68.026	1.00	0.00	C
ATOM	3704	CD1 LEU B 771	44.828	54.141	68.898	1.00	0.00	C
ATOM	3705	CD2 LEU B 771	43.583	54.718	66.738	1.00	0.00	C
ATOM	3706	N TYR B 772	41.638	49.813	67.341	1.00	0.00	N
ATOM	3707	CA TYR B 772	41.622	48.402	67.103	1.00	0.00	C
ATOM	3708	C TYR B 772	40.936	48.178	65.798	1.00	0.00	C
ATOM	3709	O TYR B 772	41.370	47.362	64.987	1.00	0.00	O
ATOM	3710	CB TYR B 772	40.864	47.607	68.180	1.00	0.00	C
ATOM	3711	CG TYR B 772	41.687	47.655	69.424	1.00	0.00	C
ATOM	3712	CD1 TYR B 772	42.775	46.825	69.558	1.00	0.00	C
ATOM	3713	CD2 TYR B 772	41.370	48.513	70.450	1.00	0.00	C
ATOM	3714	CE1 TYR B 772	43.540	46.855	70.699	1.00	0.00	C
ATOM	3715	CE2 TYR B 772	42.135	48.547	71.591	1.00	0.00	C
ATOM	3716	CZ TYR B 772	43.223	47.718	71.716	1.00	0.00	C
ATOM	3717	OH TYR B 772	44.009	47.748	72.887	1.00	0.00	O
ATOM	3718	N SER B 773	39.848	48.925	65.560	1.00	0.00	N
ATOM	3719	CA SER B 773	39.090	48.798	64.353	1.00	0.00	C
ATOM	3720	C SER B 773	39.989	49.085	63.188	1.00	0.00	C
ATOM	3721	O SER B 773	39.972	48.360	62.194	1.00	0.00	O
ATOM	3722	CB SER B 773	37.940	49.813	64.313	1.00	0.00	C
ATOM	3723	OG SER B 773	37.345	49.818	63.028	1.00	0.00	O
ATOM	3724	N LEU B 774	40.816	50.144	63.289	1.00	0.00	N
ATOM	3725	CA LEU B 774	41.694	50.493	62.209	1.00	0.00	C
ATOM	3726	C LEU B 774	42.666	49.380	61.986	1.00	0.00	C
ATOM	3727	O LEU B 774	43.014	49.069	60.849	1.00	0.00	O
ATOM	3728	CB LEU B 774	42.501	51.785	62.445	1.00	0.00	C
ATOM	3729	CG LEU B 774	41.685	53.084	62.288	1.00	0.00	C
ATOM	3730	CD1 LEU B 774	41.241	53.286	60.830	1.00	0.00	C
ATOM	3731	CD2 LEU B 774	40.507	53.150	63.269	1.00	0.00	C
ATOM	3732	N VAL B 775	43.131	48.738	63.067	1.00	0.00	N
ATOM	3733	CA VAL B 775	44.065	47.660	62.910	1.00	0.00	C

ATOM	3734	C	VAL B 775	43.384	46.611	62.095	1.00	0.00	C
ATOM	3735	O	VAL B 775	43.997	45.987	61.227	1.00	0.00	O
ATOM	3736	CB	VAL B 775	44.445	47.044	64.224	1.00	0.00	C
ATOM	3737	CG1	VAL B 775	45.334	45.821	63.954	1.00	0.00	C
ATOM	3738	CG2	VAL B 775	45.118	48.123	65.094	1.00	0.00	C
ATOM	3739	N	PHE B 776	42.083	46.403	62.355	1.00	0.00	N
ATOM	3740	CA	PHE B 776	41.314	45.417	61.659	1.00	0.00	C
ATOM	3741	C	PHE B 776	41.279	45.748	60.202	1.00	0.00	C
ATOM	3742	O	PHE B 776	41.467	44.868	59.364	1.00	0.00	O
ATOM	3743	CB	PHE B 776	39.854	45.358	62.142	1.00	0.00	C
ATOM	3744	CG	PHE B 776	39.092	44.501	61.189	1.00	0.00	C
ATOM	3745	CD1	PHE B 776	39.171	43.129	61.247	1.00	0.00	C
ATOM	3746	CD2	PHE B 776	38.285	45.079	60.234	1.00	0.00	C
ATOM	3747	CE1	PHE B 776	38.461	42.351	60.365	1.00	0.00	C
ATOM	3748	CE2	PHE B 776	37.573	44.306	59.346	1.00	0.00	C
ATOM	3749	CZ	PHE B 776	37.663	42.937	59.411	1.00	0.00	C
ATOM	3750	N	VAL B 777	41.050	47.026	59.849	1.00	0.00	N
ATOM	3751	CA	VAL B 777	40.945	47.346	58.453	1.00	0.00	C
ATOM	3752	C	VAL B 777	42.248	47.041	57.790	1.00	0.00	C
ATOM	3753	O	VAL B 777	42.285	46.515	56.678	1.00	0.00	O
ATOM	3754	CB	VAL B 777	40.584	48.778	58.169	1.00	0.00	C
ATOM	3755	CG1	VAL B 777	41.781	49.688	58.485	1.00	0.00	C
ATOM	3756	CG2	VAL B 777	40.113	48.872	56.708	1.00	0.00	C
ATOM	3757	N	LEU B 778	43.371	47.349	58.462	1.00	0.00	N
ATOM	3758	CA	LEU B 778	44.659	47.114	57.884	1.00	0.00	C
ATOM	3759	C	LEU B 778	44.814	45.641	57.688	1.00	0.00	C
ATOM	3760	O	LEU B 778	45.353	45.189	56.679	1.00	0.00	O
ATOM	3761	CB	LEU B 778	45.800	47.585	58.799	1.00	0.00	C
ATOM	3762	CG	LEU B 778	45.738	49.090	59.123	1.00	0.00	C
ATOM	3763	CD1	LEU B 778	46.918	49.526	60.002	1.00	0.00	C
ATOM	3764	CD2	LEU B 778	45.594	49.931	57.845	1.00	0.00	C
ATOM	3765	N	PHE B 779	44.330	44.850	58.661	1.00	0.00	N
ATOM	3766	CA	PHE B 779	44.467	43.425	58.609	1.00	0.00	C
ATOM	3767	C	PHE B 779	43.758	42.893	57.406	1.00	0.00	C
ATOM	3768	O	PHE B 779	44.317	42.097	56.652	1.00	0.00	O
ATOM	3769	CB	PHE B 779	43.863	42.725	59.836	1.00	0.00	C
ATOM	3770	CG	PHE B 779	44.066	41.265	59.636	1.00	0.00	C
ATOM	3771	CD1	PHE B 779	45.270	40.679	59.954	1.00	0.00	C
ATOM	3772	CD2	PHE B 779	43.051	40.487	59.134	1.00	0.00	C
ATOM	3773	CE1	PHE B 779	45.454	39.332	59.766	1.00	0.00	C
ATOM	3774	CE2	PHE B 779	43.230	39.139	58.945	1.00	0.00	C
ATOM	3775	CZ	PHE B 779	44.434	38.559	59.263	1.00	0.00	C
ATOM	3776	N	CYS B 780	42.504	43.325	57.180	1.00	0.00	N
ATOM	3777	CA	CYS B 780	41.768	42.777	56.076	1.00	0.00	C

ATOM	3778	C	CYS B 780	42.438	43.152	54.790	1.00	0.00	C
ATOM	3779	O	CYS B 780	42.519	42.349	53.867	1.00	0.00	O
ATOM	3780	CB	CYS B 780	40.294	43.232	56.016	1.00	0.00	C
ATOM	3781	SG	CYS B 780	40.077	45.000	55.663	1.00	0.00	S
ATOM	3782	N	ASP B 781	42.948	44.393	54.692	1.00	0.00	N
ATOM	3783	CA	ASP B 781	43.566	44.812	53.467	1.00	0.00	C
ATOM	3784	C	ASP B 781	44.768	43.966	53.206	1.00	0.00	C
ATOM	3785	O	ASP B 781	44.961	43.471	52.093	1.00	0.00	O
ATOM	3786	CB	ASP B 781	44.049	46.274	53.522	1.00	0.00	C
ATOM	3787	CG	ASP B 781	44.600	46.670	52.157	1.00	0.00	C
ATOM	3788	OD1	ASP B 781	44.514	45.835	51.213	1.00	0.00	O
ATOM	3789	OD2	ASP B 781	45.118	47.811	52.039	1.00	0.00	O
HETATM	3790	N	GU1 B 782	45.613	43.775	54.255	1.00	0.00	N
HETATM	3791	CA	GU1 B 782	46.839	43.024	54.008	1.00	0.00	C
HETATM	3792	C	GU1 B 782	46.532	41.590	53.646	1.00	0.00	C
HETATM	3793	O	GU1 B 782	47.219	41.042	52.825	1.00	0.00	O
HETATM	3794	CB	GU1 B 782	47.755	43.084	55.263	1.00	0.00	C
HETATM	3795	CG	GU1 B 782	48.406	44.473	55.562	1.00	0.00	C
HETATM	3796	CD	GU1 B 782	48.700	45.398	54.396	1.00	0.00	C
HETATM	3797	OE1	GU1 B 782	48.042	46.442	54.224	1.00	0.00	O
HETATM	3798	OE2	GU1 B 782	49.633	45.061	53.639	1.00	0.00	O1-
ATOM	3799	N	VAL B 783	45.508	41.019	54.290	1.00	0.00	N
ATOM	3800	CA	VAL B 783	45.201	39.656	53.972	1.00	0.00	C
ATOM	3801	C	VAL B 783	44.770	39.578	52.542	1.00	0.00	C
ATOM	3802	O	VAL B 783	45.081	38.608	51.849	1.00	0.00	O
ATOM	3803	CB	VAL B 783	44.184	39.016	54.878	1.00	0.00	C
ATOM	3804	CG1	VAL B 783	44.831	38.885	56.264	1.00	0.00	C
ATOM	3805	CG2	VAL B 783	42.890	39.843	54.904	1.00	0.00	C
ATOM	3806	N	ARG B 784	44.042	40.596	52.051	1.00	0.00	N
ATOM	3807	CA	ARG B 784	43.621	40.567	50.682	1.00	0.00	C
ATOM	3808	C	ARG B 784	44.834	40.557	49.806	1.00	0.00	C
ATOM	3809	O	ARG B 784	44.899	39.812	48.831	1.00	0.00	O
ATOM	3810	CB	ARG B 784	42.773	41.777	50.265	1.00	0.00	C
ATOM	3811	CG	ARG B 784	42.433	41.760	48.776	1.00	0.00	C
ATOM	3812	CD	ARG B 784	41.564	40.571	48.367	1.00	0.00	C
ATOM	3813	NE	ARG B 784	41.541	40.520	46.876	1.00	0.00	N
ATOM	3814	CZ	ARG B 784	40.852	39.530	46.238	1.00	0.00	C
ATOM	3815	NH1	ARG B 784	40.136	38.624	46.964	1.00	0.00	N
ATOM	3816	NH2	ARG B 784	40.880	39.446	44.877	1.00	0.00	N
HETATM	3817	N	GN1 B 785	45.837	41.382	50.151	1.00	0.00	N
HETATM	3818	CA	GN1 B 785	47.047	41.494	49.385	1.00	0.00	C
HETATM	3819	C	GN1 B 785	47.736	40.170	49.438	1.00	0.00	C
HETATM	3820	O	GN1 B 785	48.315	39.710	48.455	1.00	0.00	O
HETATM	3821	CB	GN1 B 785	48.003	42.548	49.980	1.00	0.00	C

HETATM 3822 CG GNI B 785	49.332	42.689	49.239	1.00	0.00	C
HETATM 3823 CD GNI B 785	49.976	43.988	49.704	1.00	0.00	C
HETATM 3824 NE2 GNI B 785	49.668	45.108	48.996	1.00	0.00	N
HETATM 3825 OE1 GNI B 785	50.734	44.009	50.674	1.00	0.00	O
ATOM 3826 N TRP B 786	47.666	39.508	50.601	1.00	0.00	N
ATOM 3827 CA TRP B 786	48.294	38.237	50.799	1.00	0.00	C
ATOM 3828 C TRP B 786	47.695	37.302	49.800	1.00	0.00	C
ATOM 3829 O TRP B 786	48.393	36.519	49.161	1.00	0.00	O
ATOM 3830 CB TRP B 786	47.979	37.677	52.197	1.00	0.00	C
ATOM 3831 CG TRP B 786	48.654	36.376	52.567	1.00	0.00	C
ATOM 3832 CD1 TRP B 786	48.295	35.093	52.267	1.00	0.00	C
ATOM 3833 CD2 TRP B 786	49.811	36.287	53.414	1.00	0.00	C
ATOM 3834 CE2 TRP B 786	50.094	34.934	53.584	1.00	0.00	C
ATOM 3835 CE3 TRP B 786	50.563	37.253	54.016	1.00	0.00	C
ATOM 3836 NE1 TRP B 786	49.160	34.211	52.873	1.00	0.00	N
ATOM 3837 CZ2 TRP B 786	51.140	34.526	54.362	1.00	0.00	C
ATOM 3838 CZ3 TRP B 786	51.630	36.840	54.784	1.00	0.00	C
ATOM 3839 CH2 TRP B 786	51.911	35.501	54.954	1.00	0.00	C
ATOM 3840 N TYR B 787	46.362	37.375	49.641	1.00	0.00	N
ATOM 3841 CA TYR B 787	45.654	36.504	48.752	1.00	0.00	C
ATOM 3842 C TYR B 787	46.073	36.734	47.335	1.00	0.00	C
ATOM 3843 O TYR B 787	46.251	35.778	46.581	1.00	0.00	O
ATOM 3844 CB TYR B 787	44.128	36.692	48.809	1.00	0.00	C
ATOM 3845 CG TYR B 787	43.547	35.830	47.739	1.00	0.00	C
ATOM 3846 CD1 TYR B 787	43.431	34.471	47.918	1.00	0.00	C
ATOM 3847 CD2 TYR B 787	43.113	36.386	46.558	1.00	0.00	C
ATOM 3848 CE1 TYR B 787	42.894	33.679	46.926	1.00	0.00	C
ATOM 3849 CE2 TYR B 787	42.576	35.599	45.564	1.00	0.00	C
ATOM 3850 CZ TYR B 787	42.466	34.243	45.749	1.00	0.00	C
ATOM 3851 OH TYR B 787	41.916	33.432	44.734	1.00	0.00	O
ATOM 3852 N VAL B 788	46.253	38.003	46.925	1.00	0.00	N
ATOM 3853 CA VAL B 788	46.490	38.260	45.536	1.00	0.00	C
ATOM 3854 C VAL B 788	47.727	37.559	45.059	1.00	0.00	C
ATOM 3855 O VAL B 788	47.693	36.907	44.018	1.00	0.00	O
ATOM 3856 CB VAL B 788	46.616	39.723	45.195	1.00	0.00	C
ATOM 3857 CG1 VAL B 788	45.319	40.430	45.622	1.00	0.00	C
ATOM 3858 CG2 VAL B 788	47.897	40.304	45.816	1.00	0.00	C
ATOM 3859 N ASN B 789	48.858	37.646	45.792	1.00	0.00	N
ATOM 3860 CA ASN B 789	50.036	37.002	45.271	1.00	0.00	C
ATOM 3861 C ASN B 789	50.455	35.929	46.221	1.00	0.00	C
ATOM 3862 O ASN B 789	50.714	36.203	47.391	1.00	0.00	O
ATOM 3863 CB ASN B 789	51.230	37.957	45.107	1.00	0.00	C
ATOM 3864 CG ASN B 789	50.900	38.935	43.987	1.00	0.00	C
ATOM 3865 ND2 ASN B 789	51.125	40.251	44.245	1.00	0.00	N

ATOM	3866	OD1 ASN B 789	50.446	38.538	42.916	1.00	0.00	O
ATOM	3867	N GLY B 790	50.481	34.661	45.758	1.00	0.00	N
ATOM	3868	CA GLY B 790	50.903	33.631	46.660	1.00	0.00	C
ATOM	3869	C GLY B 790	52.373	33.722	46.951	1.00	0.00	C
ATOM	3870	O GLY B 790	52.767	33.884	48.104	1.00	0.00	O
ATOM	3871	N VAL B 791	53.222	33.603	45.905	1.00	0.00	N
ATOM	3872	CA VAL B 791	54.657	33.620	46.045	1.00	0.00	C
ATOM	3873	C VAL B 791	55.201	35.003	46.201	1.00	0.00	C
ATOM	3874	O VAL B 791	56.042	35.265	47.060	1.00	0.00	O
ATOM	3875	CB VAL B 791	55.363	33.019	44.865	1.00	0.00	C
ATOM	3876	CG1 VAL B 791	56.879	33.200	45.062	1.00	0.00	C
ATOM	3877	CG2 VAL B 791	54.920	31.551	44.727	1.00	0.00	C
ATOM	3878	N ASN B 792	54.700	35.927	45.364	1.00	0.00	N
ATOM	3879	CA ASN B 792	55.246	37.245	45.263	1.00	0.00	C
ATOM	3880	C ASN B 792	55.104	37.945	46.572	1.00	0.00	C
ATOM	3881	O ASN B 792	55.977	38.707	46.978	1.00	0.00	O
ATOM	3882	CB ASN B 792	54.554	38.102	44.189	1.00	0.00	C
ATOM	3883	CG ASN B 792	55.451	39.296	43.896	1.00	0.00	C
ATOM	3884	ND2 ASN B 792	55.764	39.508	42.590	1.00	0.00	N
ATOM	3885	OD1 ASN B 792	55.875	40.013	44.801	1.00	0.00	O
ATOM	3886	N TYR B 793	53.995	37.710	47.275	1.00	0.00	N
ATOM	3887	CA TYR B 793	53.795	38.389	48.518	1.00	0.00	C
ATOM	3888	C TYR B 793	54.893	37.968	49.451	1.00	0.00	C
ATOM	3889	O TYR B 793	55.520	38.794	50.108	1.00	0.00	O
ATOM	3890	CB TYR B 793	52.456	38.000	49.164	1.00	0.00	C
ATOM	3891	CG TYR B 793	52.214	38.864	50.353	1.00	0.00	C
ATOM	3892	CD1 TYR B 793	51.651	40.109	50.200	1.00	0.00	C
ATOM	3893	CD2 TYR B 793	52.541	38.435	51.619	1.00	0.00	C
ATOM	3894	CE1 TYR B 793	51.415	40.918	51.287	1.00	0.00	C
ATOM	3895	CE2 TYR B 793	52.308	39.239	52.711	1.00	0.00	C
ATOM	3896	CZ TYR B 793	51.743	40.482	52.547	1.00	0.00	C
ATOM	3897	OH TYR B 793	51.497	41.308	53.663	1.00	0.00	O
ATOM	3898	N PHE B 794	55.179	36.659	49.504	1.00	0.00	N
ATOM	3899	CA PHE B 794	56.179	36.137	50.389	1.00	0.00	C
ATOM	3900	C PHE B 794	57.535	36.615	49.992	1.00	0.00	C
ATOM	3901	O PHE B 794	58.396	36.797	50.849	1.00	0.00	O
ATOM	3902	CB PHE B 794	56.264	34.602	50.420	1.00	0.00	C
ATOM	3903	CG PHE B 794	55.075	34.078	51.141	1.00	0.00	C
ATOM	3904	CD1 PHE B 794	54.970	34.217	52.505	1.00	0.00	C
ATOM	3905	CD2 PHE B 794	54.081	33.426	50.457	1.00	0.00	C
ATOM	3906	CE1 PHE B 794	53.871	33.725	53.170	1.00	0.00	C
ATOM	3907	CE2 PHE B 794	52.982	32.929	51.113	1.00	0.00	C
ATOM	3908	CZ PHE B 794	52.876	33.083	52.475	1.00	0.00	C
ATOM	3909	N THR B 795	57.780	36.810	48.685	1.00	0.00	N

ATOM	3910	CA	THR B 795	59.115	37.115	48.269	1.00	0.00	C
ATOM	3911	C	THR B 795	59.625	38.350	48.955	1.00	0.00	C
ATOM	3912	O	THR B 795	60.735	38.341	49.482	1.00	0.00	O
ATOM	3913	CB	THR B 795	59.260	37.285	46.781	1.00	0.00	C
ATOM	3914	CG2	THR B 795	58.618	38.594	46.310	1.00	0.00	C
ATOM	3915	OG1	THR B 795	60.631	37.306	46.448	1.00	0.00	O
ATOM	3916	N	ASP B 796	58.839	39.445	48.991	1.00	0.00	N
ATOM	3917	CA	ASP B 796	59.308	40.636	49.645	1.00	0.00	C
ATOM	3918	C	ASP B 796	59.280	40.366	51.115	1.00	0.00	C
ATOM	3919	O	ASP B 796	58.374	39.706	51.625	1.00	0.00	O
ATOM	3920	CB	ASP B 796	58.410	41.857	49.348	1.00	0.00	C
ATOM	3921	CG	ASP B 796	59.107	43.153	49.758	1.00	0.00	C
ATOM	3922	OD1	ASP B 796	59.799	43.168	50.807	1.00	0.00	O
ATOM	3923	OD2	ASP B 796	58.949	44.156	49.010	1.00	0.00	O
ATOM	3924	N	LEU B 797	60.320	40.821	51.833	1.00	0.00	N
ATOM	3925	CA	LEU B 797	60.403	40.661	53.255	1.00	0.00	C
ATOM	3926	C	LEU B 797	59.433	41.569	53.947	1.00	0.00	C
ATOM	3927	O	LEU B 797	58.792	41.187	54.922	1.00	0.00	O
ATOM	3928	CB	LEU B 797	61.807	41.009	53.779	1.00	0.00	C
ATOM	3929	CG	LEU B 797	62.908	40.092	53.213	1.00	0.00	C
ATOM	3930	CD1	LEU B 797	64.292	40.467	53.758	1.00	0.00	C
ATOM	3931	CD2	LEU B 797	62.564	38.611	53.437	1.00	0.00	C
ATOM	3932	N	TRP B 798	59.301	42.809	53.454	1.00	0.00	N
ATOM	3933	CA	TRP B 798	58.523	43.798	54.144	1.00	0.00	C
ATOM	3934	C	TRP B 798	57.083	43.426	54.204	1.00	0.00	C
ATOM	3935	O	TRP B 798	56.456	43.557	55.254	1.00	0.00	O
ATOM	3936	CB	TRP B 798	58.670	45.191	53.512	1.00	0.00	C
ATOM	3937	CG	TRP B 798	60.079	45.717	53.655	1.00	0.00	C
ATOM	3938	CD1	TRP B 798	61.098	45.739	52.747	1.00	0.00	C
ATOM	3939	CD2	TRP B 798	60.605	46.269	54.871	1.00	0.00	C
ATOM	3940	CE2	TRP B 798	61.939	46.600	54.631	1.00	0.00	C
ATOM	3941	CE3	TRP B 798	60.026	46.478	56.090	1.00	0.00	C
ATOM	3942	NE1	TRP B 798	62.228	46.272	53.324	1.00	0.00	N
ATOM	3943	CZ2	TRP B 798	62.718	47.147	55.613	1.00	0.00	C
ATOM	3944	CZ3	TRP B 798	60.812	47.035	57.076	1.00	0.00	C
ATOM	3945	CH2	TRP B 798	62.132	47.362	56.840	1.00	0.00	C
HETATM	3946	N	ANI B 799	56.510	42.937	53.055	1.00	0.00	N
HETATM	3947	CA	ANI B 799	55.078	42.701	53.218	1.00	0.00	C
HETATM	3948	C	ANI B 799	54.824	41.540	54.150	1.00	0.00	C
HETATM	3949	O	ANI B 799	53.794	41.570	54.812	1.00	0.00	O
HETATM	3950	CB	ANI B 799	54.433	42.441	51.826	1.00	0.00	C
HETATM	3951	CG	ANI B 799	54.213	43.660	50.924	1.00	0.00	C
HETATM	3952	ND2	ANI B 799	55.121	43.958	50.035	1.00	0.00	N
HETATM	3953	OD1	ANI B 799	53.208	44.349	50.995	1.00	0.00	O

ATOM	3954	N	VAL B 800	55.743	40.574	54.311	1.00	0.00	N
ATOM	3955	CA	VAL B 800	55.506	39.587	55.328	1.00	0.00	C
ATOM	3956	C	VAL B 800	55.686	40.224	56.676	1.00	0.00	C
ATOM	3957	O	VAL B 800	55.004	39.873	57.637	1.00	0.00	O
ATOM	3958	CB	VAL B 800	56.365	38.351	55.239	1.00	0.00	C
ATOM	3959	CG1	VAL B 800	56.105	37.679	53.880	1.00	0.00	C
ATOM	3960	CG2	VAL B 800	57.835	38.699	55.510	1.00	0.00	C
ATOM	3961	N	MET B 801	56.617	41.191	56.787	1.00	0.00	N
ATOM	3962	CA	MET B 801	56.902	41.822	58.046	1.00	0.00	C
ATOM	3963	C	MET B 801	55.682	42.520	58.554	1.00	0.00	C
ATOM	3964	O	MET B 801	55.395	42.482	59.749	1.00	0.00	O
ATOM	3965	CB	MET B 801	58.019	42.877	57.960	1.00	0.00	C
ATOM	3966	CG	MET B 801	58.174	43.689	59.250	1.00	0.00	C
ATOM	3967	SD	MET B 801	58.803	42.763	60.679	1.00	0.00	S
ATOM	3968	CE	MET B 801	60.528	42.779	60.120	1.00	0.00	C
HETATM	3969	N	AP1 B 802	54.930	43.181	57.661	1.00	0.00	N
HETATM	3970	CA	AP1 B 802	53.774	43.917	58.085	1.00	0.00	C
HETATM	3971	C	AP1 B 802	52.778	42.973	58.689	1.00	0.00	C
HETATM	3972	O	AP1 B 802	52.161	43.281	59.709	1.00	0.00	O
HETATM	3973	CB	AP1 B 802	53.082	44.644	56.922	1.00	0.00	C
HETATM	3974	CG	AP1 B 802	54.097	44.882	55.812	1.00	0.00	C
HETATM	3975	OD1	AP1 B 802	55.266	45.228	56.129	1.00	0.00	O1-
HETATM	3976	OD2	AP1 B 802	53.712	44.725	54.625	1.00	0.00	O
ATOM	3977	N	THR B 803	52.589	41.790	58.075	1.00	0.00	N
ATOM	3978	CA	THR B 803	51.629	40.856	58.587	1.00	0.00	C
ATOM	3979	C	THR B 803	52.076	40.393	59.936	1.00	0.00	C
ATOM	3980	O	THR B 803	51.272	40.252	60.853	1.00	0.00	O
ATOM	3981	CB	THR B 803	51.443	39.635	57.727	1.00	0.00	C
ATOM	3982	CG2	THR B 803	51.062	40.080	56.307	1.00	0.00	C
ATOM	3983	OG1	THR B 803	52.636	38.863	57.694	1.00	0.00	O
ATOM	3984	N	LEU B 804	53.389	40.151	60.089	1.00	0.00	N
ATOM	3985	CA	LEU B 804	53.900	39.644	61.331	1.00	0.00	C
ATOM	3986	C	LEU B 804	53.625	40.670	62.385	1.00	0.00	C
ATOM	3987	O	LEU B 804	53.184	40.334	63.483	1.00	0.00	O
ATOM	3988	CB	LEU B 804	55.423	39.393	61.265	1.00	0.00	C
ATOM	3989	CG	LEU B 804	56.079	38.664	62.463	1.00	0.00	C
ATOM	3990	CD1	LEU B 804	57.591	38.501	62.222	1.00	0.00	C
ATOM	3991	CD2	LEU B 804	55.799	39.325	63.823	1.00	0.00	C
ATOM	3992	N	GLY B 805	53.871	41.956	62.075	1.00	0.00	N
ATOM	3993	CA	GLY B 805	53.692	42.988	63.054	1.00	0.00	C
ATOM	3994	C	GLY B 805	52.252	43.072	63.451	1.00	0.00	C
ATOM	3995	O	GLY B 805	51.933	43.234	64.629	1.00	0.00	O
ATOM	3996	N	LEU B 806	51.340	42.978	62.467	1.00	0.00	N
ATOM	3997	CA	LEU B 806	49.933	43.102	62.727	1.00	0.00	C

ATOM	3998	C	LEU B 806	49.508	41.960	63.589	1.00	0.00	C
ATOM	3999	O	LEU B 806	48.709	42.128	64.507	1.00	0.00	O
ATOM	4000	CB	LEU B 806	49.097	43.054	61.430	1.00	0.00	C
ATOM	4001	CG	LEU B 806	47.595	43.377	61.586	1.00	0.00	C
ATOM	4002	CD1	LEU B 806	46.836	42.325	62.413	1.00	0.00	C
ATOM	4003	CD2	LEU B 806	47.395	44.810	62.102	1.00	0.00	C
ATOM	4004	N	PHE B 807	50.041	40.760	63.304	1.00	0.00	N
ATOM	4005	CA	PHE B 807	49.666	39.580	64.028	1.00	0.00	C
ATOM	4006	C	PHE B 807	50.085	39.733	65.458	1.00	0.00	C
ATOM	4007	O	PHE B 807	49.325	39.418	66.372	1.00	0.00	O
ATOM	4008	CB	PHE B 807	50.342	38.313	63.483	1.00	0.00	C
ATOM	4009	CG	PHE B 807	49.875	37.165	64.309	1.00	0.00	C
ATOM	4010	CD1	PHE B 807	48.647	36.592	64.069	1.00	0.00	C
ATOM	4011	CD2	PHE B 807	50.663	36.662	65.316	1.00	0.00	C
ATOM	4012	CE1	PHE B 807	48.212	35.532	64.830	1.00	0.00	C
ATOM	4013	CE2	PHE B 807	50.233	35.603	66.079	1.00	0.00	C
ATOM	4014	CZ	PHE B 807	49.006	35.038	65.837	1.00	0.00	C
ATOM	4015	N	TYR B 808	51.312	40.235	65.680	1.00	0.00	N
ATOM	4016	CA	TYR B 808	51.847	40.369	67.003	1.00	0.00	C
ATOM	4017	C	TYR B 808	50.994	41.341	67.756	1.00	0.00	C
ATOM	4018	O	TYR B 808	50.720	41.158	68.940	1.00	0.00	O
ATOM	4019	CB	TYR B 808	53.304	40.868	66.997	1.00	0.00	C
ATOM	4020	CG	TYR B 808	53.821	40.832	68.397	1.00	0.00	C
ATOM	4021	CD1	TYR B 808	54.049	39.628	69.021	1.00	0.00	C
ATOM	4022	CD2	TYR B 808	54.108	41.995	69.071	1.00	0.00	C
ATOM	4023	CE1	TYR B 808	54.530	39.580	70.308	1.00	0.00	C
ATOM	4024	CE2	TYR B 808	54.590	41.956	70.358	1.00	0.00	C
ATOM	4025	CZ	TYR B 808	54.801	40.747	70.979	1.00	0.00	C
ATOM	4026	OH	TYR B 808	55.295	40.709	72.299	1.00	0.00	O
ATOM	4027	N	PHE B 809	50.552	42.411	67.073	1.00	0.00	N
ATOM	4028	CA	PHE B 809	49.729	43.422	67.672	1.00	0.00	C
ATOM	4029	C	PHE B 809	48.441	42.785	68.086	1.00	0.00	C
ATOM	4030	O	PHE B 809	47.911	43.068	69.162	1.00	0.00	O
ATOM	4031	CB	PHE B 809	49.408	44.550	66.677	1.00	0.00	C
ATOM	4032	CG	PHE B 809	48.602	45.589	67.371	1.00	0.00	C
ATOM	4033	CD1	PHE B 809	49.222	46.539	68.143	1.00	0.00	C
ATOM	4034	CD2	PHE B 809	47.235	45.623	67.240	1.00	0.00	C
ATOM	4035	CE1	PHE B 809	48.486	47.507	68.782	1.00	0.00	C
ATOM	4036	CE2	PHE B 809	46.493	46.590	67.877	1.00	0.00	C
ATOM	4037	CZ	PHE B 809	47.119	47.535	68.654	1.00	0.00	C
ATOM	4038	N	ILE B 810	47.907	41.889	67.238	1.00	0.00	N
ATOM	4039	CA	ILE B 810	46.664	41.230	67.516	1.00	0.00	C
ATOM	4040	C	ILE B 810	46.854	40.461	68.779	1.00	0.00	C
ATOM	4041	O	ILE B 810	45.996	40.469	69.661	1.00	0.00	O

ATOM	4042	CB	ILE B 810	46.307	40.212	66.467	1.00	0.00	C
ATOM	4043	CG1	ILE B 810	46.195	40.844	65.071	1.00	0.00	C
ATOM	4044	CG2	ILE B 810	45.026	39.503	66.936	1.00	0.00	C
ATOM	4045	CD1	ILE B 810	45.061	41.854	64.922	1.00	0.00	C
ATOM	4046	N	ALA B 811	48.002	39.772	68.896	1.00	0.00	N
ATOM	4047	CA	ALA B 811	48.271	38.963	70.047	1.00	0.00	C
ATOM	4048	C	ALA B 811	48.290	39.852	71.246	1.00	0.00	C
ATOM	4049	O	ALA B 811	47.740	39.515	72.293	1.00	0.00	O
ATOM	4050	CB	ALA B 811	49.636	38.262	69.972	1.00	0.00	C
ATOM	4051	N	GLY B 812	48.903	41.040	71.124	1.00	0.00	N
ATOM	4052	CA	GLY B 812	48.998	41.913	72.255	1.00	0.00	C
ATOM	4053	C	GLY B 812	47.618	42.278	72.691	1.00	0.00	C
ATOM	4054	O	GLY B 812	47.350	42.387	73.887	1.00	0.00	O
ATOM	4055	N	ILE B 813	46.709	42.496	71.725	1.00	0.00	N
ATOM	4056	CA	ILE B 813	45.371	42.894	72.047	1.00	0.00	C
ATOM	4057	C	ILE B 813	44.701	41.801	72.817	1.00	0.00	C
ATOM	4058	O	ILE B 813	44.040	42.060	73.821	1.00	0.00	O
ATOM	4059	CB	ILE B 813	44.541	43.183	70.833	1.00	0.00	C
ATOM	4060	CG1	ILE B 813	45.157	44.343	70.031	1.00	0.00	C
ATOM	4061	CG2	ILE B 813	43.097	43.454	71.293	1.00	0.00	C
ATOM	4062	CD1	ILE B 813	44.543	44.519	68.644	1.00	0.00	C
ATOM	4063	N	VAL B 814	44.855	40.540	72.370	1.00	0.00	N
ATOM	4064	CA	VAL B 814	44.188	39.449	73.024	1.00	0.00	C
ATOM	4065	C	VAL B 814	44.724	39.292	74.416	1.00	0.00	C
ATOM	4066	O	VAL B 814	43.972	39.047	75.357	1.00	0.00	O
ATOM	4067	CB	VAL B 814	44.331	38.142	72.297	1.00	0.00	C
ATOM	4068	CG1	VAL B 814	45.768	37.618	72.433	1.00	0.00	C
ATOM	4069	CG2	VAL B 814	43.268	37.178	72.838	1.00	0.00	C
ATOM	4070	N	PHE B 815	46.050	39.445	74.572	1.00	0.00	N
ATOM	4071	CA	PHE B 815	46.756	39.297	75.816	1.00	0.00	C
ATOM	4072	C	PHE B 815	46.403	40.385	76.782	1.00	0.00	C
ATOM	4073	O	PHE B 815	46.481	40.174	77.990	1.00	0.00	O
ATOM	4074	CB	PHE B 815	48.291	39.295	75.673	1.00	0.00	C
ATOM	4075	CG	PHE B 815	48.720	37.950	75.199	1.00	0.00	C
ATOM	4076	CD1	PHE B 815	48.799	36.902	76.090	1.00	0.00	C
ATOM	4077	CD2	PHE B 815	49.068	37.728	73.887	1.00	0.00	C
ATOM	4078	CE1	PHE B 815	49.199	35.654	75.671	1.00	0.00	C
ATOM	4079	CE2	PHE B 815	49.468	36.484	73.460	1.00	0.00	C
ATOM	4080	CZ	PHE B 815	49.533	35.444	74.355	1.00	0.00	C
ATOM	4081	N	ARG B 816	46.042	41.586	76.300	1.00	0.00	N
ATOM	4082	CA	ARG B 816	45.839	42.661	77.233	1.00	0.00	C
ATOM	4083	C	ARG B 816	44.780	42.312	78.235	1.00	0.00	C
ATOM	4084	O	ARG B 816	44.950	42.565	79.424	1.00	0.00	O
ATOM	4085	CB	ARG B 816	45.407	43.994	76.601	1.00	0.00	C

ATOM	4086	CG	ARG	B	816	45.249	45.079	77.673	1.00	0.00	C
ATOM	4087	CD	ARG	B	816	44.669	46.403	77.173	1.00	0.00	C
ATOM	4088	NE	ARG	B	816	45.636	46.983	76.202	1.00	0.00	N
ATOM	4089	CZ	ARG	B	816	45.661	48.334	76.014	1.00	0.00	C
ATOM	4090	NH1	ARG	B	816	44.859	49.138	76.770	1.00	0.00	N
ATOM	4091	NH2	ARG	B	816	46.484	48.881	75.072	1.00	0.00	N
ATOM	4092	N	LEU	B	817	43.663	41.715	77.782	1.00	0.00	N
ATOM	4093	CA	LEU	B	817	42.552	41.387	78.635	1.00	0.00	C
ATOM	4094	C	LEU	B	817	42.987	40.348	79.628	1.00	0.00	C
ATOM	4095	O	LEU	B	817	42.563	40.371	80.785	1.00	0.00	O
ATOM	4096	CB	LEU	B	817	41.351	40.853	77.818	1.00	0.00	C
ATOM	4097	CG	LEU	B	817	40.014	40.637	78.567	1.00	0.00	C
ATOM	4098	CD1	LEU	B	817	38.926	40.169	77.587	1.00	0.00	C
ATOM	4099	CD2	LEU	B	817	40.126	39.670	79.757	1.00	0.00	C
HETATM	4100	N	HIE	B	818	43.886	39.434	79.217	1.00	0.00	N
HETATM	4101	CA	HIE	B	818	44.248	38.291	80.014	1.00	0.00	C
HETATM	4102	C	HIE	B	818	44.747	38.697	81.371	1.00	0.00	C
HETATM	4103	O	HIE	B	818	44.312	38.129	82.375	1.00	0.00	O
HETATM	4104	CB	HIE	B	818	45.341	37.432	79.361	1.00	0.00	C
HETATM	4105	CG	HIE	B	818	45.588	36.160	80.112	1.00	0.00	C
HETATM	4106	CD2	HIE	B	818	46.500	35.879	81.083	1.00	0.00	C
HETATM	4107	ND1	HIE	B	818	44.865	35.001	79.930	1.00	0.00	N
HETATM	4108	CE1	HIE	B	818	45.371	34.085	80.792	1.00	0.00	C
HETATM	4109	NE2	HIE	B	818	46.363	34.571	81.515	1.00	0.00	N
ATOM	4110	N	SER	B	819	45.623	39.718	81.456	1.00	0.00	N
ATOM	4111	CA	SER	B	819	46.149	40.154	82.721	1.00	0.00	C
ATOM	4112	C	SER	B	819	46.703	39.014	83.527	1.00	0.00	C
ATOM	4113	O	SER	B	819	45.995	38.408	84.329	1.00	0.00	O
ATOM	4114	CB	SER	B	819	45.096	40.880	83.571	1.00	0.00	C
ATOM	4115	OG	SER	B	819	45.661	41.290	84.805	1.00	0.00	O
ATOM	4116	N	SER	B	820	47.988	38.662	83.295	1.00	0.00	N
ATOM	4117	CA	SER	B	820	48.598	37.603	84.052	1.00	0.00	C
ATOM	4118	C	SER	B	820	50.055	37.918	84.225	1.00	0.00	C
ATOM	4119	O	SER	B	820	50.543	38.943	83.758	1.00	0.00	O
ATOM	4120	CB	SER	B	820	48.484	36.236	83.353	1.00	0.00	C
ATOM	4121	OG	SER	B	820	49.052	35.209	84.154	1.00	0.00	O
ATOM	4122	N	ASN	B	821	50.785	37.054	84.964	1.00	0.00	N
ATOM	4123	CA	ASN	B	821	52.193	37.256	85.132	1.00	0.00	C
ATOM	4124	C	ASN	B	821	52.877	36.732	83.915	1.00	0.00	C
ATOM	4125	O	ASN	B	821	52.352	35.874	83.207	1.00	0.00	O
ATOM	4126	CB	ASN	B	821	52.796	36.553	86.358	1.00	0.00	C
ATOM	4127	CG	ASN	B	821	52.442	37.388	87.578	1.00	0.00	C
ATOM	4128	ND2	ASN	B	821	51.952	36.718	88.656	1.00	0.00	N
ATOM	4129	OD1	ASN	B	821	52.600	38.607	87.575	1.00	0.00	O

ATOM	4130	N	LYS B 822	54.071	37.285	83.631	1.00	0.00	N
ATOM	4131	CA	LYS B 822	54.873	36.921	82.494	1.00	0.00	C
ATOM	4132	C	LYS B 822	54.202	37.442	81.260	1.00	0.00	C
ATOM	4133	O	LYS B 822	54.716	37.310	80.151	1.00	0.00	O
ATOM	4134	CB	LYS B 822	55.052	35.400	82.374	1.00	0.00	C
ATOM	4135	CG	LYS B 822	55.805	34.810	83.568	1.00	0.00	C
ATOM	4136	CD	LYS B 822	55.705	33.290	83.691	1.00	0.00	C
ATOM	4137	CE	LYS B 822	56.297	32.750	84.995	1.00	0.00	C
ATOM	4138	NZ	LYS B 822	55.445	33.148	86.137	1.00	0.00	N1+
ATOM	4139	N	SER B 823	53.031	38.078	81.448	1.00	0.00	N
ATOM	4140	CA	SER B 823	52.305	38.746	80.412	1.00	0.00	C
ATOM	4141	C	SER B 823	51.233	39.472	81.155	1.00	0.00	C
ATOM	4142	O	SER B 823	50.110	38.985	81.263	1.00	0.00	O
ATOM	4143	CB	SER B 823	51.615	37.787	79.428	1.00	0.00	C
ATOM	4144	OG	SER B 823	50.916	38.526	78.438	1.00	0.00	O
ATOM	4145	N	SER B 824	51.572	40.660	81.688	1.00	0.00	N
ATOM	4146	CA	SER B 824	50.659	41.418	82.493	1.00	0.00	C
ATOM	4147	C	SER B 824	50.186	42.573	81.696	1.00	0.00	C
ATOM	4148	O	SER B 824	50.361	42.634	80.479	1.00	0.00	O
ATOM	4149	CB	SER B 824	51.305	42.037	83.746	1.00	0.00	C
ATOM	4150	OG	SER B 824	51.792	41.028	84.618	1.00	0.00	O
ATOM	4151	N	LEU B 825	49.552	43.535	82.390	1.00	0.00	N
ATOM	4152	CA	LEU B 825	49.158	44.714	81.699	1.00	0.00	C
ATOM	4153	C	LEU B 825	50.425	45.325	81.219	1.00	0.00	C
ATOM	4154	O	LEU B 825	50.481	45.900	80.134	1.00	0.00	O
ATOM	4155	CB	LEU B 825	48.427	45.769	82.541	1.00	0.00	C
ATOM	4156	CG	LEU B 825	48.245	47.069	81.735	1.00	0.00	C
ATOM	4157	CD1	LEU B 825	47.540	46.803	80.400	1.00	0.00	C
ATOM	4158	CD2	LEU B 825	47.546	48.161	82.547	1.00	0.00	C
ATOM	4159	N	TYR B 826	51.485	45.204	82.033	1.00	0.00	N
ATOM	4160	CA	TYR B 826	52.744	45.753	81.645	1.00	0.00	C
ATOM	4161	C	TYR B 826	53.170	45.036	80.404	1.00	0.00	C
ATOM	4162	O	TYR B 826	53.651	45.654	79.457	1.00	0.00	O
ATOM	4163	CB	TYR B 826	53.841	45.564	82.701	1.00	0.00	C
ATOM	4164	CG	TYR B 826	55.036	46.294	82.192	1.00	0.00	C
ATOM	4165	CD1	TYR B 826	55.135	47.654	82.370	1.00	0.00	C
ATOM	4166	CD2	TYR B 826	56.048	45.627	81.541	1.00	0.00	C
ATOM	4167	CE1	TYR B 826	56.230	48.344	81.907	1.00	0.00	C
ATOM	4168	CE2	TYR B 826	57.145	46.311	81.075	1.00	0.00	C
ATOM	4169	CZ	TYR B 826	57.236	47.670	81.258	1.00	0.00	C
ATOM	4170	OH	TYR B 826	58.358	48.379	80.777	1.00	0.00	O
ATOM	4171	N	SER B 827	52.988	43.703	80.376	1.00	0.00	N
ATOM	4172	CA	SER B 827	53.397	42.940	79.232	1.00	0.00	C
ATOM	4173	C	SER B 827	52.606	43.399	78.053	1.00	0.00	C

ATOM	4174	O	SER B 827	53.139	43.546	76.954	1.00	0.00	O
ATOM	4175	CB	SER B 827	53.146	41.432	79.391	1.00	0.00	C
ATOM	4176	OG	SER B 827	53.573	40.744	78.223	1.00	0.00	O
ATOM	4177	N	GLY B 828	51.300	43.654	78.253	1.00	0.00	N
ATOM	4178	CA	GLY B 828	50.468	44.063	77.162	1.00	0.00	C
ATOM	4179	C	GLY B 828	50.987	45.361	76.646	1.00	0.00	C
ATOM	4180	O	GLY B 828	51.029	45.588	75.439	1.00	0.00	O
ATOM	4181	N	ARG B 829	51.388	46.259	77.561	1.00	0.00	N
ATOM	4182	CA	ARG B 829	51.881	47.534	77.129	1.00	0.00	C
ATOM	4183	C	ARG B 829	53.139	47.329	76.356	1.00	0.00	C
ATOM	4184	O	ARG B 829	53.388	48.022	75.375	1.00	0.00	O
ATOM	4185	CB	ARG B 829	52.174	48.520	78.271	1.00	0.00	C
ATOM	4186	CG	ARG B 829	50.905	49.186	78.806	1.00	0.00	C
ATOM	4187	CD	ARG B 829	51.171	50.483	79.571	1.00	0.00	C
ATOM	4188	NE	ARG B 829	51.808	50.127	80.867	1.00	0.00	N
ATOM	4189	CZ	ARG B 829	51.036	50.013	81.988	1.00	0.00	C
ATOM	4190	NH1	ARG B 829	49.695	50.255	81.920	1.00	0.00	N
ATOM	4191	NH2	ARG B 829	51.609	49.658	83.173	1.00	0.00	N
ATOM	4192	N	VAL B 830	53.969	46.358	76.778	1.00	0.00	N
ATOM	4193	CA	VAL B 830	55.228	46.144	76.122	1.00	0.00	C
ATOM	4194	C	VAL B 830	54.992	45.780	74.688	1.00	0.00	C
ATOM	4195	O	VAL B 830	55.628	46.319	73.786	1.00	0.00	O
ATOM	4196	CB	VAL B 830	56.012	45.022	76.737	1.00	0.00	C
ATOM	4197	CG1	VAL B 830	57.283	44.798	75.900	1.00	0.00	C
ATOM	4198	CG2	VAL B 830	56.285	45.366	78.212	1.00	0.00	C
ATOM	4199	N	ILE B 831	54.042	44.870	74.443	1.00	0.00	N
ATOM	4200	CA	ILE B 831	53.750	44.371	73.132	1.00	0.00	C
ATOM	4201	C	ILE B 831	53.282	45.508	72.291	1.00	0.00	C
ATOM	4202	O	ILE B 831	53.647	45.638	71.124	1.00	0.00	O
ATOM	4203	CB	ILE B 831	52.593	43.433	73.200	1.00	0.00	C
ATOM	4204	CG1	ILE B 831	52.906	42.289	74.167	1.00	0.00	C
ATOM	4205	CG2	ILE B 831	52.228	42.986	71.781	1.00	0.00	C
ATOM	4206	CD1	ILE B 831	51.643	41.609	74.677	1.00	0.00	C
ATOM	4207	N	PHE B 832	52.435	46.358	72.889	1.00	0.00	N
ATOM	4208	CA	PHE B 832	51.786	47.434	72.206	1.00	0.00	C
ATOM	4209	C	PHE B 832	52.848	48.374	71.715	1.00	0.00	C
ATOM	4210	O	PHE B 832	52.790	48.850	70.583	1.00	0.00	O
ATOM	4211	CB	PHE B 832	50.844	48.173	73.176	1.00	0.00	C
ATOM	4212	CG	PHE B 832	49.710	48.812	72.446	1.00	0.00	C
ATOM	4213	CD1	PHE B 832	48.650	48.042	72.025	1.00	0.00	C
ATOM	4214	CD2	PHE B 832	49.673	50.161	72.213	1.00	0.00	C
ATOM	4215	CE1	PHE B 832	47.588	48.608	71.365	1.00	0.00	C
ATOM	4216	CE2	PHE B 832	48.613	50.739	71.552	1.00	0.00	C
ATOM	4217	CZ	PHE B 832	47.566	49.961	71.122	1.00	0.00	C

ATOM	4218	N	CYS B 833	53.852	48.664	72.565	1.00	0.00	N
ATOM	4219	CA	CYS B 833	54.913	49.566	72.209	1.00	0.00	C
ATOM	4220	C	CYS B 833	55.702	49.001	71.072	1.00	0.00	C
ATOM	4221	O	CYS B 833	56.040	49.716	70.128	1.00	0.00	O
ATOM	4222	CB	CYS B 833	55.899	49.804	73.367	1.00	0.00	C
ATOM	4223	SG	CYS B 833	57.241	50.948	72.918	1.00	0.00	S
ATOM	4224	N	LEU B 834	56.005	47.690	71.125	1.00	0.00	N
ATOM	4225	CA	LEU B 834	56.816	47.065	70.117	1.00	0.00	C
ATOM	4226	C	LEU B 834	56.100	47.138	68.811	1.00	0.00	C
ATOM	4227	O	LEU B 834	56.709	47.398	67.776	1.00	0.00	O
ATOM	4228	CB	LEU B 834	57.096	45.580	70.415	1.00	0.00	C
ATOM	4229	CG	LEU B 834	57.933	45.369	71.689	1.00	0.00	C
ATOM	4230	CD1	LEU B 834	58.216	43.880	71.934	1.00	0.00	C
ATOM	4231	CD2	LEU B 834	59.209	46.227	71.668	1.00	0.00	C
ATOM	4232	N	ASP B 835	54.773	46.927	68.833	1.00	0.00	N
ATOM	4233	CA	ASP B 835	54.007	46.944	67.624	1.00	0.00	C
ATOM	4234	C	ASP B 835	54.145	48.309	67.040	1.00	0.00	C
ATOM	4235	O	ASP B 835	54.283	48.466	65.831	1.00	0.00	O
ATOM	4236	CB	ASP B 835	52.512	46.694	67.879	1.00	0.00	C
ATOM	4237	CG	ASP B 835	52.356	45.262	68.370	1.00	0.00	C
ATOM	4238	OD1	ASP B 835	53.157	44.395	67.932	1.00	0.00	O
ATOM	4239	OD2	ASP B 835	51.438	45.018	69.197	1.00	0.00	O
ATOM	4240	N	TYR B 836	54.159	49.331	67.908	1.00	0.00	N
ATOM	4241	CA	TYR B 836	54.258	50.695	67.479	1.00	0.00	C
ATOM	4242	C	TYR B 836	55.525	50.853	66.707	1.00	0.00	C
ATOM	4243	O	TYR B 836	55.542	51.491	65.656	1.00	0.00	O
ATOM	4244	CB	TYR B 836	54.320	51.673	68.667	1.00	0.00	C
ATOM	4245	CG	TYR B 836	54.728	53.019	68.167	1.00	0.00	C
ATOM	4246	CD1	TYR B 836	53.807	53.906	67.666	1.00	0.00	C
ATOM	4247	CD2	TYR B 836	56.052	53.388	68.211	1.00	0.00	C
ATOM	4248	CE1	TYR B 836	54.208	55.141	67.212	1.00	0.00	C
ATOM	4249	CE2	TYR B 836	56.459	54.622	67.758	1.00	0.00	C
ATOM	4250	CZ	TYR B 836	55.531	55.502	67.256	1.00	0.00	C
ATOM	4251	OH	TYR B 836	55.939	56.771	66.792	1.00	0.00	O
ATOM	4252	N	ILE B 837	56.624	50.262	67.205	1.00	0.00	N
ATOM	4253	CA	ILE B 837	57.896	50.427	66.568	1.00	0.00	C
ATOM	4254	C	ILE B 837	57.843	49.851	65.187	1.00	0.00	C
ATOM	4255	O	ILE B 837	58.292	50.480	64.233	1.00	0.00	O
ATOM	4256	CB	ILE B 837	59.003	49.727	67.297	1.00	0.00	C
ATOM	4257	CG1	ILE B 837	59.144	50.283	68.723	1.00	0.00	C
ATOM	4258	CG2	ILE B 837	60.279	49.874	66.453	1.00	0.00	C
ATOM	4259	CD1	ILE B 837	60.039	49.429	69.620	1.00	0.00	C
ATOM	4260	N	ILE B 838	57.275	48.640	65.041	1.00	0.00	N
ATOM	4261	CA	ILE B 838	57.263	47.996	63.758	1.00	0.00	C

ATOM	4262	C	ILE B 838	56.443	48.791	62.795	1.00	0.00	C
ATOM	4263	O	ILE B 838	56.810	48.914	61.628	1.00	0.00	O
ATOM	4264	CB	ILE B 838	56.742	46.586	63.775	1.00	0.00	C
ATOM	4265	CG1	ILE B 838	57.121	45.875	62.465	1.00	0.00	C
ATOM	4266	CG2	ILE B 838	55.225	46.630	64.026	1.00	0.00	C
ATOM	4267	CD1	ILE B 838	58.628	45.669	62.299	1.00	0.00	C
ATOM	4268	N	PHE B 839	55.305	49.351	63.249	1.00	0.00	N
ATOM	4269	CA	PHE B 839	54.472	50.087	62.345	1.00	0.00	C
ATOM	4270	C	PHE B 839	55.260	51.234	61.817	1.00	0.00	C
ATOM	4271	O	PHE B 839	55.218	51.536	60.627	1.00	0.00	O
ATOM	4272	CB	PHE B 839	53.177	50.642	62.971	1.00	0.00	C
ATOM	4273	CG	PHE B 839	52.272	49.486	63.239	1.00	0.00	C
ATOM	4274	CD1	PHE B 839	51.700	48.792	62.195	1.00	0.00	C
ATOM	4275	CD2	PHE B 839	51.969	49.112	64.523	1.00	0.00	C
ATOM	4276	CE1	PHE B 839	50.863	47.727	62.431	1.00	0.00	C
ATOM	4277	CE2	PHE B 839	51.133	48.046	64.771	1.00	0.00	C
ATOM	4278	CZ	PHE B 839	50.580	47.351	63.721	1.00	0.00	C
ATOM	4279	N	THR B 840	56.030	51.891	62.695	1.00	0.00	N
ATOM	4280	CA	THR B 840	56.795	53.037	62.315	1.00	0.00	C
ATOM	4281	C	THR B 840	57.770	52.594	61.268	1.00	0.00	C
ATOM	4282	O	THR B 840	58.007	53.295	60.287	1.00	0.00	O
ATOM	4283	CB	THR B 840	57.581	53.559	63.477	1.00	0.00	C
ATOM	4284	CG2	THR B 840	58.174	54.918	63.093	1.00	0.00	C
ATOM	4285	OG1	THR B 840	56.715	53.740	64.585	1.00	0.00	O
ATOM	4286	N	LEU B 841	58.338	51.387	61.446	1.00	0.00	N
ATOM	4287	CA	LEU B 841	59.336	50.883	60.548	1.00	0.00	C
ATOM	4288	C	LEU B 841	58.719	50.777	59.192	1.00	0.00	C
ATOM	4289	O	LEU B 841	59.353	51.076	58.182	1.00	0.00	O
ATOM	4290	CB	LEU B 841	59.843	49.489	60.947	1.00	0.00	C
ATOM	4291	CG	LEU B 841	60.916	48.935	59.992	1.00	0.00	C
ATOM	4292	CD1	LEU B 841	62.193	49.789	60.045	1.00	0.00	C
ATOM	4293	CD2	LEU B 841	61.186	47.447	60.256	1.00	0.00	C
ATOM	4294	N	ARG B 842	57.450	50.350	59.147	1.00	0.00	N
ATOM	4295	CA	ARG B 842	56.709	50.190	57.931	1.00	0.00	C
ATOM	4296	C	ARG B 842	56.649	51.524	57.255	1.00	0.00	C
ATOM	4297	O	ARG B 842	56.877	51.636	56.050	1.00	0.00	O
ATOM	4298	CB	ARG B 842	55.283	49.739	58.282	1.00	0.00	C
ATOM	4299	CG	ARG B 842	54.248	49.695	57.163	1.00	0.00	C
ATOM	4300	CD	ARG B 842	52.907	49.227	57.735	1.00	0.00	C
ATOM	4301	NE	ARG B 842	51.850	49.365	56.701	1.00	0.00	N
ATOM	4302	CZ	ARG B 842	50.602	48.887	56.972	1.00	0.00	C
ATOM	4303	NH1	ARG B 842	50.366	48.221	58.143	1.00	0.00	N
ATOM	4304	NH2	ARG B 842	49.587	49.071	56.081	1.00	0.00	N
ATOM	4305	N	LEU B 843	56.365	52.590	58.026	1.00	0.00	N

ATOM	4306	CA	LEU B 843	56.277	53.894	57.442	1.00	0.00	C
ATOM	4307	C	LEU B 843	57.603	54.269	56.882	1.00	0.00	C
ATOM	4308	O	LEU B 843	57.686	54.824	55.790	1.00	0.00	O
ATOM	4309	CB	LEU B 843	55.871	55.001	58.428	1.00	0.00	C
ATOM	4310	CG	LEU B 843	54.375	54.991	58.793	1.00	0.00	C
ATOM	4311	CD1	LEU B 843	53.968	53.681	59.474	1.00	0.00	C
ATOM	4312	CD2	LEU B 843	53.994	56.237	59.607	1.00	0.00	C
ATOM	4313	N	ILE B 844	58.688	53.941	57.603	1.00	0.00	N
ATOM	4314	CA	ILE B 844	59.993	54.341	57.177	1.00	0.00	C
ATOM	4315	C	ILE B 844	60.235	53.756	55.825	1.00	0.00	C
ATOM	4316	O	ILE B 844	60.729	54.434	54.926	1.00	0.00	O
ATOM	4317	CB	ILE B 844	61.057	53.820	58.094	1.00	0.00	C
ATOM	4318	CG1	ILE B 844	60.844	54.390	59.504	1.00	0.00	C
ATOM	4319	CG2	ILE B 844	62.424	54.151	57.474	1.00	0.00	C
ATOM	4320	CD1	ILE B 844	61.595	53.633	60.594	1.00	0.00	C
HETATM	4321	N	HIE B 845	59.865	52.479	55.637	1.00	0.00	N
HETATM	4322	CA	HIE B 845	60.106	51.859	54.369	1.00	0.00	C
HETATM	4323	C	HIE B 845	59.323	52.587	53.323	1.00	0.00	C
HETATM	4324	O	HIE B 845	59.795	52.774	52.206	1.00	0.00	O
HETATM	4325	CB	HIE B 845	59.706	50.381	54.297	1.00	0.00	C
HETATM	4326	CG	HIE B 845	60.115	49.781	52.986	1.00	0.00	C
HETATM	4327	CD2	HIE B 845	59.376	49.520	51.871	1.00	0.00	C
HETATM	4328	ND1	HIE B 845	61.401	49.391	52.682	1.00	0.00	N
HETATM	4329	CE1	HIE B 845	61.380	48.918	51.414	1.00	0.00	C
HETATM	4330	NE2	HIE B 845	60.172	48.975	50.879	1.00	0.00	N
ATOM	4331	N	ILE B 846	58.099	53.019	53.667	1.00	0.00	N
ATOM	4332	CA	ILE B 846	57.261	53.684	52.714	1.00	0.00	C
ATOM	4333	C	ILE B 846	57.960	54.931	52.271	1.00	0.00	C
ATOM	4334	O	ILE B 846	57.989	55.244	51.082	1.00	0.00	O
ATOM	4335	CB	ILE B 846	55.937	54.085	53.302	1.00	0.00	C
ATOM	4336	CG1	ILE B 846	55.187	52.840	53.808	1.00	0.00	C
ATOM	4337	CG2	ILE B 846	55.163	54.874	52.232	1.00	0.00	C
ATOM	4338	CD1	ILE B 846	53.978	53.167	54.685	1.00	0.00	C
ATOM	4339	N	PHE B 847	58.565	55.666	53.221	1.00	0.00	N
ATOM	4340	CA	PHE B 847	59.218	56.898	52.883	1.00	0.00	C
ATOM	4341	C	PHE B 847	60.354	56.587	51.956	1.00	0.00	C
ATOM	4342	O	PHE B 847	60.566	57.283	50.963	1.00	0.00	O
ATOM	4343	CB	PHE B 847	59.858	57.613	54.090	1.00	0.00	C
ATOM	4344	CG	PHE B 847	58.817	57.912	55.116	1.00	0.00	C
ATOM	4345	CD1	PHE B 847	57.848	58.868	54.897	1.00	0.00	C
ATOM	4346	CD2	PHE B 847	58.834	57.252	56.323	1.00	0.00	C
ATOM	4347	CE1	PHE B 847	56.904	59.131	55.858	1.00	0.00	C
ATOM	4348	CE2	PHE B 847	57.892	57.512	57.289	1.00	0.00	C
ATOM	4349	CZ	PHE B 847	56.918	58.456	57.057	1.00	0.00	C

ATOM	4350	N	THR B 848	61.103	55.513	52.260	1.00	0.00	N
ATOM	4351	CA	THR B 848	62.288	55.158	51.534	1.00	0.00	C
ATOM	4352	C	THR B 848	61.946	54.905	50.104	1.00	0.00	C
ATOM	4353	O	THR B 848	62.597	55.415	49.194	1.00	0.00	O
ATOM	4354	CB	THR B 848	62.876	53.875	52.034	1.00	0.00	C
ATOM	4355	CG2	THR B 848	64.211	53.636	51.314	1.00	0.00	C
ATOM	4356	OG1	THR B 848	63.090	53.954	53.434	1.00	0.00	O
ATOM	4357	N	VAL B 849	60.898	54.103	49.861	1.00	0.00	N
ATOM	4358	CA	VAL B 849	60.557	53.790	48.507	1.00	0.00	C
ATOM	4359	C	VAL B 849	60.142	55.046	47.822	1.00	0.00	C
ATOM	4360	O	VAL B 849	60.553	55.316	46.693	1.00	0.00	O
ATOM	4361	CB	VAL B 849	59.406	52.834	48.406	1.00	0.00	C
ATOM	4362	CG1	VAL B 849	59.045	52.662	46.921	1.00	0.00	C
ATOM	4363	CG2	VAL B 849	59.796	51.524	49.113	1.00	0.00	C
ATOM	4364	N	SER B 850	59.320	55.860	48.505	1.00	0.00	N
ATOM	4365	CA	SER B 850	58.786	57.055	47.922	1.00	0.00	C
ATOM	4366	C	SER B 850	59.910	57.975	47.575	1.00	0.00	C
ATOM	4367	O	SER B 850	59.913	58.582	46.504	1.00	0.00	O
ATOM	4368	CB	SER B 850	57.865	57.814	48.892	1.00	0.00	C
ATOM	4369	OG	SER B 850	56.753	57.006	49.246	1.00	0.00	O
ATOM	4370	N	ARG B 851	60.904	58.105	48.473	1.00	0.00	N
ATOM	4371	CA	ARG B 851	61.980	59.019	48.222	1.00	0.00	C
ATOM	4372	C	ARG B 851	62.754	58.592	47.017	1.00	0.00	C
ATOM	4373	O	ARG B 851	63.088	59.426	46.175	1.00	0.00	O
ATOM	4374	CB	ARG B 851	62.967	59.166	49.398	1.00	0.00	C
ATOM	4375	CG	ARG B 851	63.642	57.862	49.836	1.00	0.00	C
ATOM	4376	CD	ARG B 851	64.790	58.049	50.833	1.00	0.00	C
ATOM	4377	NE	ARG B 851	66.016	58.387	50.055	1.00	0.00	N
ATOM	4378	CZ	ARG B 851	66.898	57.401	49.716	1.00	0.00	C
ATOM	4379	NH1	ARG B 851	66.682	56.118	50.133	1.00	0.00	N
ATOM	4380	NH2	ARG B 851	68.001	57.696	48.968	1.00	0.00	N
ATOM	4381	N	ASN B 852	63.057	57.283	46.884	1.00	0.00	N
ATOM	4382	CA	ASN B 852	63.892	56.880	45.790	1.00	0.00	C
ATOM	4383	C	ASN B 852	63.091	56.079	44.803	1.00	0.00	C
ATOM	4384	O	ASN B 852	63.159	54.851	44.782	1.00	0.00	O
ATOM	4385	CB	ASN B 852	65.056	55.999	46.267	1.00	0.00	C
ATOM	4386	CG	ASN B 852	66.100	55.981	45.175	1.00	0.00	C
ATOM	4387	ND2	ASN B 852	67.311	55.462	45.519	1.00	0.00	N
ATOM	4388	OD1	ASN B 852	65.849	56.424	44.055	1.00	0.00	O
ATOM	4389	N	LEU B 853	62.284	56.781	43.986	1.00	0.00	N
ATOM	4390	CA	LEU B 853	61.459	56.262	42.927	1.00	0.00	C
ATOM	4391	C	LEU B 853	62.280	55.947	41.713	1.00	0.00	C
ATOM	4392	O	LEU B 853	61.959	55.029	40.964	1.00	0.00	O
ATOM	4393	CB	LEU B 853	60.353	57.281	42.553	1.00	0.00	C

ATOM	4394	CG	LEU B 853	59.311	56.862	41.486	1.00	0.00	C
ATOM	4395	CD1	LEU B 853	58.198	57.919	41.404	1.00	0.00	C
ATOM	4396	CD2	LEU B 853	59.916	56.626	40.093	1.00	0.00	C
ATOM	4397	N	GLY B 854	63.356	56.730	41.488	1.00	0.00	N
ATOM	4398	CA	GLY B 854	64.155	56.721	40.286	1.00	0.00	C
ATOM	4399	C	GLY B 854	64.604	55.353	39.885	1.00	0.00	C
ATOM	4400	O	GLY B 854	64.350	54.353	40.549	1.00	0.00	O
ATOM	4401	N	PRO B 855	65.433	55.348	38.844	1.00	0.00	N
ATOM	4402	CA	PRO B 855	66.080	54.189	38.289	1.00	0.00	C
ATOM	4403	C	PRO B 855	66.805	53.420	39.335	1.00	0.00	C
ATOM	4404	O	PRO B 855	67.217	52.284	39.102	1.00	0.00	O
ATOM	4405	CB	PRO B 855	66.912	54.693	37.116	1.00	0.00	C
ATOM	4406	CG	PRO B 855	66.105	55.909	36.624	1.00	0.00	C
ATOM	4407	CD	PRO B 855	65.396	56.438	37.884	1.00	0.00	C
ATOM	4408	N	LYS B 856	66.934	54.048	40.497	1.00	0.00	N
ATOM	4409	CA	LYS B 856	67.476	53.573	41.702	1.00	0.00	C
ATOM	4410	C	LYS B 856	66.663	52.420	42.215	1.00	0.00	C
ATOM	4411	O	LYS B 856	67.189	51.619	42.977	1.00	0.00	O
ATOM	4412	CB	LYS B 856	67.500	54.654	42.781	1.00	0.00	C
ATOM	4413	CG	LYS B 856	68.353	55.869	42.411	1.00	0.00	C
ATOM	4414	CD	LYS B 856	67.726	56.781	41.353	1.00	0.00	C
ATOM	4415	CE	LYS B 856	67.181	58.087	41.936	1.00	0.00	C
ATOM	4416	NZ	LYS B 856	66.718	58.978	40.848	1.00	0.00	NI+
ATOM	4417	N	ILE B 857	65.367	52.290	41.839	1.00	0.00	N
ATOM	4418	CA	ILE B 857	64.580	51.230	42.420	1.00	0.00	C
ATOM	4419	C	ILE B 857	65.208	49.908	42.164	1.00	0.00	C
ATOM	4420	O	ILE B 857	65.273	49.069	43.063	1.00	0.00	O
ATOM	4421	CB	ILE B 857	63.166	51.117	41.932	1.00	0.00	C
ATOM	4422	CG1	ILE B 857	62.481	49.941	42.643	1.00	0.00	C
ATOM	4423	CG2	ILE B 857	63.194	50.885	40.419	1.00	0.00	C
ATOM	4424	CD1	ILE B 857	62.474	50.029	44.164	1.00	0.00	C
ATOM	4425	N	ILE B 858	65.713	49.683	40.945	1.00	0.00	N
ATOM	4426	CA	ILE B 858	66.260	48.402	40.629	1.00	0.00	C
ATOM	4427	C	ILE B 858	67.383	48.124	41.583	1.00	0.00	C
ATOM	4428	O	ILE B 858	67.492	47.030	42.133	1.00	0.00	O
ATOM	4429	CB	ILE B 858	66.740	48.370	39.193	1.00	0.00	C
ATOM	4430	CG1	ILE B 858	66.952	46.938	38.696	1.00	0.00	C
ATOM	4431	CG2	ILE B 858	67.962	49.284	39.032	1.00	0.00	C
ATOM	4432	CD1	ILE B 858	65.657	46.249	38.277	1.00	0.00	C
ATOM	4433	N	MET B 859	68.237	49.135	41.827	1.00	0.00	N
ATOM	4434	CA	MET B 859	69.371	49.003	42.691	1.00	0.00	C
ATOM	4435	C	MET B 859	68.914	48.796	44.099	1.00	0.00	C
ATOM	4436	O	MET B 859	69.498	48.008	44.843	1.00	0.00	O
ATOM	4437	CB	MET B 859	70.268	50.253	42.660	1.00	0.00	C

ATOM	4438	CG	MET B 859	71.599	50.092	43.399	1.00	0.00	C
ATOM	4439	SD	MET B 859	71.485	50.057	45.212	1.00	0.00	S
ATOM	4440	CE	MET B 859	71.205	51.843	45.352	1.00	0.00	C
ATOM	4441	N	LEU B 860	67.840	49.503	44.486	1.00	0.00	N
ATOM	4442	CA	LEU B 860	67.372	49.524	45.839	1.00	0.00	C
ATOM	4443	C	LEU B 860	66.958	48.150	46.275	1.00	0.00	C
ATOM	4444	O	LEU B 860	67.309	47.718	47.374	1.00	0.00	O
ATOM	4445	CB	LEU B 860	66.191	50.515	45.983	1.00	0.00	C
ATOM	4446	CG	LEU B 860	65.673	50.812	47.406	1.00	0.00	C
ATOM	4447	CD1	LEU B 860	64.568	51.879	47.350	1.00	0.00	C
ATOM	4448	CD2	LEU B 860	65.192	49.555	48.154	1.00	0.00	C
ATOM	4449	N	GLN B 861	66.212	47.408	45.438	1.00	0.00	N
ATOM	4450	CA	GLN B 861	65.721	46.137	45.897	1.00	0.00	C
ATOM	4451	C	GLN B 861	66.845	45.175	46.139	1.00	0.00	C
ATOM	4452	O	GLN B 861	66.858	44.478	47.153	1.00	0.00	O
ATOM	4453	CB	GLN B 861	64.741	45.460	44.927	1.00	0.00	C
ATOM	4454	CG	GLN B 861	64.197	44.146	45.498	1.00	0.00	C
ATOM	4455	CD	GLN B 861	63.233	43.533	44.497	1.00	0.00	C
ATOM	4456	NE2	GLN B 861	62.571	42.418	44.905	1.00	0.00	N
ATOM	4457	OE1	GLN B 861	63.072	44.026	43.382	1.00	0.00	O
ATOM	4458	N	ARG B 862	67.823	45.111	45.220	1.00	0.00	N
ATOM	4459	CA	ARG B 862	68.903	44.168	45.338	1.00	0.00	C
ATOM	4460	C	ARG B 862	69.695	44.492	46.563	1.00	0.00	C
ATOM	4461	O	ARG B 862	70.114	43.605	47.303	1.00	0.00	O
ATOM	4462	CB	ARG B 862	69.875	44.245	44.148	1.00	0.00	C
ATOM	4463	CG	ARG B 862	71.041	43.262	44.223	1.00	0.00	C
ATOM	4464	CD	ARG B 862	70.631	41.813	43.962	1.00	0.00	C
ATOM	4465	NE	ARG B 862	71.878	41.000	43.954	1.00	0.00	N
ATOM	4466	CZ	ARG B 862	72.371	40.499	45.124	1.00	0.00	C
ATOM	4467	NH1	ARG B 862	71.692	40.703	46.290	1.00	0.00	N
ATOM	4468	NH2	ARG B 862	73.540	39.794	45.126	1.00	0.00	N
ATOM	4469	N	MET B 863	69.907	45.791	46.813	1.00	0.00	N
ATOM	4470	CA	MET B 863	70.690	46.210	47.934	1.00	0.00	C
ATOM	4471	C	MET B 863	69.994	45.756	49.171	1.00	0.00	C
ATOM	4472	O	MET B 863	70.624	45.337	50.141	1.00	0.00	O
ATOM	4473	CB	MET B 863	70.838	47.741	47.981	1.00	0.00	C
ATOM	4474	CG	MET B 863	71.664	48.266	49.156	1.00	0.00	C
ATOM	4475	SD	MET B 863	70.789	48.273	50.746	1.00	0.00	S
ATOM	4476	CE	MET B 863	72.147	49.046	51.668	1.00	0.00	C
ATOM	4477	N	LEU B 864	68.654	45.813	49.163	1.00	0.00	N
ATOM	4478	CA	LEU B 864	67.902	45.450	50.322	1.00	0.00	C
ATOM	4479	C	LEU B 864	68.161	44.011	50.632	1.00	0.00	C
ATOM	4480	O	LEU B 864	68.410	43.649	51.780	1.00	0.00	O
ATOM	4481	CB	LEU B 864	66.387	45.533	50.088	1.00	0.00	C

ATOM	4482	CG	LEU B 864	65.561	45.270	51.358	1.00	0.00	C
ATOM	4483	CD1	LEU B 864	65.492	46.526	52.238	1.00	0.00	C
ATOM	4484	CD2	LEU B 864	64.199	44.645	51.031	1.00	0.00	C
ATOM	4485	N	ILE B 865	68.112	43.142	49.609	1.00	0.00	N
ATOM	4486	CA	ILE B 865	68.253	41.744	49.885	1.00	0.00	C
ATOM	4487	C	ILE B 865	69.623	41.447	50.405	1.00	0.00	C
ATOM	4488	O	ILE B 865	69.769	40.733	51.396	1.00	0.00	O
ATOM	4489	CB	ILE B 865	67.981	40.863	48.697	1.00	0.00	C
ATOM	4490	CG1	ILE B 865	67.854	39.402	49.151	1.00	0.00	C
ATOM	4491	CG2	ILE B 865	69.064	41.094	47.632	1.00	0.00	C
ATOM	4492	CD1	ILE B 865	67.269	38.482	48.080	1.00	0.00	C
ATOM	4493	N	ASP B 866	70.677	41.997	49.768	1.00	0.00	N
ATOM	4494	CA	ASP B 866	71.992	41.641	50.210	1.00	0.00	C
ATOM	4495	C	ASP B 866	72.255	42.150	51.597	1.00	0.00	C
ATOM	4496	O	ASP B 866	72.895	41.464	52.395	1.00	0.00	O
ATOM	4497	CB	ASP B 866	73.120	42.019	49.222	1.00	0.00	C
ATOM	4498	CG	ASP B 866	73.180	43.509	48.914	1.00	0.00	C
ATOM	4499	OD1	ASP B 866	72.932	44.340	49.824	1.00	0.00	O
ATOM	4500	OD2	ASP B 866	73.481	43.832	47.737	1.00	0.00	O
ATOM	4501	N	VAL B 867	71.758	43.354	51.938	1.00	0.00	N
ATOM	4502	CA	VAL B 867	72.021	43.890	53.243	1.00	0.00	C
ATOM	4503	C	VAL B 867	71.369	43.025	54.276	1.00	0.00	C
ATOM	4504	O	VAL B 867	71.960	42.737	55.310	1.00	0.00	O
ATOM	4505	CB	VAL B 867	71.526	45.292	53.426	1.00	0.00	C
ATOM	4506	CG1	VAL B 867	72.286	46.201	52.448	1.00	0.00	C
ATOM	4507	CG2	VAL B 867	69.998	45.318	53.262	1.00	0.00	C
ATOM	4508	N	PHE B 868	70.130	42.565	54.017	1.00	0.00	N
ATOM	4509	CA	PHE B 868	69.452	41.770	55.003	1.00	0.00	C
ATOM	4510	C	PHE B 868	70.239	40.535	55.271	1.00	0.00	C
ATOM	4511	O	PHE B 868	70.396	40.134	56.424	1.00	0.00	O
ATOM	4512	CB	PHE B 868	68.036	41.331	54.593	1.00	0.00	C
ATOM	4513	CG	PHE B 868	67.103	42.456	54.873	1.00	0.00	C
ATOM	4514	CD1	PHE B 868	66.652	42.660	56.157	1.00	0.00	C
ATOM	4515	CD2	PHE B 868	66.666	43.289	53.874	1.00	0.00	C
ATOM	4516	CE1	PHE B 868	65.787	43.687	56.450	1.00	0.00	C
ATOM	4517	CE2	PHE B 868	65.798	44.318	54.165	1.00	0.00	C
ATOM	4518	CZ	PHE B 868	65.357	44.521	55.450	1.00	0.00	C
ATOM	4519	N	PHE B 869	70.763	39.900	54.211	1.00	0.00	N
ATOM	4520	CA	PHE B 869	71.508	38.692	54.384	1.00	0.00	C
ATOM	4521	C	PHE B 869	72.678	39.013	55.270	1.00	0.00	C
ATOM	4522	O	PHE B 869	72.946	38.311	56.242	1.00	0.00	O
ATOM	4523	CB	PHE B 869	72.054	38.180	53.037	1.00	0.00	C
ATOM	4524	CG	PHE B 869	72.767	36.885	53.229	1.00	0.00	C
ATOM	4525	CD1	PHE B 869	72.066	35.700	53.234	1.00	0.00	C

ATOM	4526	CD2 PHE B 869	74.132	36.852	53.395	1.00	0.00	C
ATOM	4527	CE1 PHE B 869	72.715	34.501	53.410	1.00	0.00	C
ATOM	4528	CE2 PHE B 869	74.789	35.656	53.570	1.00	0.00	C
ATOM	4529	CZ PHE B 869	74.079	34.478	53.579	1.00	0.00	C
ATOM	4530	N PHE B 870	73.376	40.123	54.968	1.00	0.00	N
ATOM	4531	CA PHE B 870	74.555	40.518	55.686	1.00	0.00	C
ATOM	4532	C PHE B 870	74.276	40.766	57.131	1.00	0.00	C
ATOM	4533	O PHE B 870	74.968	40.234	57.997	1.00	0.00	O
ATOM	4534	CB PHE B 870	75.185	41.794	55.094	1.00	0.00	C
ATOM	4535	CG PHE B 870	76.136	42.377	56.079	1.00	0.00	C
ATOM	4536	CD1 PHE B 870	77.062	41.591	56.712	1.00	0.00	C
ATOM	4537	CD2 PHE B 870	76.138	43.726	56.349	1.00	0.00	C
ATOM	4538	CE1 PHE B 870	77.964	42.113	57.610	1.00	0.00	C
ATOM	4539	CE2 PHE B 870	77.034	44.264	57.247	1.00	0.00	C
ATOM	4540	CZ PHE B 870	77.947	43.459	57.879	1.00	0.00	C
ATOM	4541	N LEU B 871	73.249	41.572	57.438	1.00	0.00	N
ATOM	4542	CA LEU B 871	73.001	41.882	58.813	1.00	0.00	C
ATOM	4543	C LEU B 871	72.641	40.633	59.544	1.00	0.00	C
ATOM	4544	O LEU B 871	73.038	40.449	60.691	1.00	0.00	O
ATOM	4545	CB LEU B 871	71.877	42.912	59.028	1.00	0.00	C
ATOM	4546	CG LEU B 871	72.287	44.362	58.704	1.00	0.00	C
ATOM	4547	CD1 LEU B 871	73.369	44.853	59.679	1.00	0.00	C
ATOM	4548	CD2 LEU B 871	72.698	44.542	57.237	1.00	0.00	C
ATOM	4549	N PHE B 872	71.891	39.725	58.894	1.00	0.00	N
ATOM	4550	CA PHE B 872	71.455	38.548	59.584	1.00	0.00	C
ATOM	4551	C PHE B 872	72.648	37.763	60.026	1.00	0.00	C
ATOM	4552	O PHE B 872	72.728	37.354	61.183	1.00	0.00	O
ATOM	4553	CB PHE B 872	70.582	37.625	58.714	1.00	0.00	C
ATOM	4554	CG PHE B 872	70.101	36.527	59.599	1.00	0.00	C
ATOM	4555	CD1 PHE B 872	69.026	36.729	60.433	1.00	0.00	C
ATOM	4556	CD2 PHE B 872	70.718	35.294	59.596	1.00	0.00	C
ATOM	4557	CE1 PHE B 872	68.572	35.724	61.255	1.00	0.00	C
ATOM	4558	CE2 PHE B 872	70.266	34.289	60.415	1.00	0.00	C
ATOM	4559	CZ PHE B 872	69.195	34.500	61.246	1.00	0.00	C
ATOM	4560	N LEU B 873	73.620	37.540	59.126	1.00	0.00	N
ATOM	4561	CA LEU B 873	74.763	36.755	59.492	1.00	0.00	C
ATOM	4562	C LEU B 873	75.567	37.443	60.549	1.00	0.00	C
ATOM	4563	O LEU B 873	76.084	36.801	61.461	1.00	0.00	O
ATOM	4564	CB LEU B 873	75.701	36.436	58.321	1.00	0.00	C
ATOM	4565	CG LEU B 873	75.151	35.344	57.385	1.00	0.00	C
ATOM	4566	CD1 LEU B 873	73.838	35.767	56.712	1.00	0.00	C
ATOM	4567	CD2 LEU B 873	76.224	34.898	56.387	1.00	0.00	C
ATOM	4568	N PHE B 874	75.713	38.773	60.465	1.00	0.00	N
ATOM	4569	CA PHE B 874	76.560	39.409	61.428	1.00	0.00	C

ATOM	4570	C	PHE B 874	75.969	39.209	62.787	1.00	0.00	C
ATOM	4571	O	PHE B 874	76.663	38.827	63.728	1.00	0.00	O
ATOM	4572	CB	PHE B 874	76.701	40.921	61.180	1.00	0.00	C
ATOM	4573	CG	PHE B 874	77.893	41.389	61.941	1.00	0.00	C
ATOM	4574	CD1	PHE B 874	79.149	41.267	61.386	1.00	0.00	C
ATOM	4575	CD2	PHE B 874	77.774	41.950	63.190	1.00	0.00	C
ATOM	4576	CE1	PHE B 874	80.266	41.692	62.066	1.00	0.00	C
ATOM	4577	CE2	PHE B 874	78.888	42.376	63.873	1.00	0.00	C
ATOM	4578	CZ	PHE B 874	80.135	42.248	63.316	1.00	0.00	C
ATOM	4579	N	ALA B 875	74.649	39.444	62.918	1.00	0.00	N
ATOM	4580	CA	ALA B 875	73.986	39.333	64.185	1.00	0.00	C
ATOM	4581	C	ALA B 875	74.063	37.920	64.670	1.00	0.00	C
ATOM	4582	O	ALA B 875	74.319	37.683	65.848	1.00	0.00	O
ATOM	4583	CB	ALA B 875	72.497	39.714	64.106	1.00	0.00	C
ATOM	4584	N	VAL B 876	73.854	36.942	63.768	1.00	0.00	N
ATOM	4585	CA	VAL B 876	73.850	35.573	64.194	1.00	0.00	C
ATOM	4586	C	VAL B 876	75.201	35.215	64.707	1.00	0.00	C
ATOM	4587	O	VAL B 876	75.324	34.502	65.704	1.00	0.00	O
ATOM	4588	CB	VAL B 876	73.452	34.601	63.116	1.00	0.00	C
ATOM	4589	CG1	VAL B 876	72.008	34.932	62.709	1.00	0.00	C
ATOM	4590	CG2	VAL B 876	74.461	34.652	61.958	1.00	0.00	C
ATOM	4591	N	TRP B 877	76.266	35.698	64.048	1.00	0.00	N
ATOM	4592	CA	TRP B 877	77.583	35.369	64.505	1.00	0.00	C
ATOM	4593	C	TRP B 877	77.763	35.920	65.886	1.00	0.00	C
ATOM	4594	O	TRP B 877	78.253	35.230	66.777	1.00	0.00	O
ATOM	4595	CB	TRP B 877	78.692	35.969	63.625	1.00	0.00	C
ATOM	4596	CG	TRP B 877	80.088	35.726	64.150	1.00	0.00	C
ATOM	4597	CD1	TRP B 877	80.921	34.662	63.969	1.00	0.00	C
ATOM	4598	CD2	TRP B 877	80.794	36.661	64.978	1.00	0.00	C
ATOM	4599	CE2	TRP B 877	82.040	36.102	65.262	1.00	0.00	C
ATOM	4600	CE3	TRP B 877	80.435	37.887	65.462	1.00	0.00	C
ATOM	4601	NE1	TRP B 877	82.104	34.875	64.637	1.00	0.00	N
ATOM	4602	CZ2	TRP B 877	82.949	36.764	66.040	1.00	0.00	C
ATOM	4603	CZ3	TRP B 877	81.352	38.551	66.244	1.00	0.00	C
ATOM	4604	CH2	TRP B 877	82.582	38.001	66.528	1.00	0.00	C
ATOM	4605	N	MET B 878	77.349	37.183	66.099	1.00	0.00	N
ATOM	4606	CA	MET B 878	77.564	37.828	67.361	1.00	0.00	C
ATOM	4607	C	MET B 878	76.840	37.093	68.442	1.00	0.00	C
ATOM	4608	O	MET B 878	77.395	36.847	69.512	1.00	0.00	O
ATOM	4609	CB	MET B 878	77.041	39.275	67.377	1.00	0.00	C
ATOM	4610	CG	MET B 878	77.744	40.191	66.374	1.00	0.00	C
ATOM	4611	SD	MET B 878	77.146	41.910	66.367	1.00	0.00	S
ATOM	4612	CE	MET B 878	75.527	41.507	65.645	1.00	0.00	C
ATOM	4613	N	VAL B 879	75.578	36.705	68.186	1.00	0.00	N

ATOM	4614	CA	VAL B 879	74.800	36.045	69.196	1.00	0.00	C
ATOM	4615	C	VAL B 879	75.430	34.731	69.529	1.00	0.00	C
ATOM	4616	O	VAL B 879	75.494	34.345	70.695	1.00	0.00	O
ATOM	4617	CB	VAL B 879	73.380	35.782	68.789	1.00	0.00	C
ATOM	4618	CG1	VAL B 879	73.364	34.812	67.597	1.00	0.00	C
ATOM	4619	CG2	VAL B 879	72.628	35.249	70.019	1.00	0.00	C
ATOM	4620	N	ALA B 880	75.922	34.012	68.505	1.00	0.00	N
ATOM	4621	CA	ALA B 880	76.489	32.712	68.709	1.00	0.00	C
ATOM	4622	C	ALA B 880	77.679	32.836	69.603	1.00	0.00	C
ATOM	4623	O	ALA B 880	77.877	32.031	70.509	1.00	0.00	O
ATOM	4624	CB	ALA B 880	76.967	32.062	67.398	1.00	0.00	C
ATOM	4625	N	PHE B 881	78.508	33.865	69.373	1.00	0.00	N
ATOM	4626	CA	PHE B 881	79.691	34.042	70.158	1.00	0.00	C
ATOM	4627	C	PHE B 881	79.272	34.292	71.570	1.00	0.00	C
ATOM	4628	O	PHE B 881	79.833	33.724	72.506	1.00	0.00	O
ATOM	4629	CB	PHE B 881	80.519	35.252	69.689	1.00	0.00	C
ATOM	4630	CG	PHE B 881	81.731	35.384	70.541	1.00	0.00	C
ATOM	4631	CD1	PHE B 881	82.847	34.614	70.296	1.00	0.00	C
ATOM	4632	CD2	PHE B 881	81.766	36.286	71.580	1.00	0.00	C
ATOM	4633	CE1	PHE B 881	83.971	34.736	71.079	1.00	0.00	C
ATOM	4634	CE2	PHE B 881	82.887	36.411	72.365	1.00	0.00	C
ATOM	4635	CZ	PHE B 881	83.993	35.637	72.118	1.00	0.00	C
ATOM	4636	N	GLY B 882	78.246	35.143	71.753	1.00	0.00	N
ATOM	4637	CA	GLY B 882	77.816	35.515	73.064	1.00	0.00	C
ATOM	4638	C	GLY B 882	77.346	34.308	73.809	1.00	0.00	C
ATOM	4639	O	GLY B 882	77.648	34.154	74.993	1.00	0.00	O
ATOM	4640	N	VAL B 883	76.576	33.423	73.151	1.00	0.00	N
ATOM	4641	CA	VAL B 883	76.092	32.276	73.855	1.00	0.00	C
ATOM	4642	C	VAL B 883	77.255	31.421	74.240	1.00	0.00	C
ATOM	4643	O	VAL B 883	77.294	30.869	75.337	1.00	0.00	O
ATOM	4644	CB	VAL B 883	75.093	31.451	73.092	1.00	0.00	C
ATOM	4645	CG1	VAL B 883	73.846	32.315	72.851	1.00	0.00	C
ATOM	4646	CG2	VAL B 883	75.727	30.926	71.799	1.00	0.00	C
ATOM	4647	N	ALA B 884	78.251	31.301	73.346	1.00	0.00	N
ATOM	4648	CA	ALA B 884	79.382	30.464	73.629	1.00	0.00	C
ATOM	4649	C	ALA B 884	80.085	30.998	74.839	1.00	0.00	C
ATOM	4650	O	ALA B 884	80.481	30.238	75.721	1.00	0.00	O
ATOM	4651	CB	ALA B 884	80.402	30.441	72.478	1.00	0.00	C
ATOM	4652	N	ARG B 885	80.250	32.331	74.919	1.00	0.00	N
ATOM	4653	CA	ARG B 885	80.962	32.926	76.012	1.00	0.00	C
ATOM	4654	C	ARG B 885	80.226	32.668	77.284	1.00	0.00	C
ATOM	4655	O	ARG B 885	80.831	32.340	78.304	1.00	0.00	O
ATOM	4656	CB	ARG B 885	81.099	34.453	75.884	1.00	0.00	C
ATOM	4657	CG	ARG B 885	82.010	34.895	74.737	1.00	0.00	C

ATOM	4658	CD	ARG	B	885	83.447	35.199	75.169	1.00	0.00	C
ATOM	4659	NE	ARG	B	885	84.157	33.901	75.349	1.00	0.00	N
ATOM	4660	CZ	ARG	B	885	84.202	33.312	76.582	1.00	0.00	C
ATOM	4661	NH1	ARG	B	885	83.596	33.910	77.646	1.00	0.00	N
ATOM	4662	NH2	ARG	B	885	84.856	32.124	76.750	1.00	0.00	N
ATOM	4663	N	GLN	B	886	78.889	32.797	77.258	1.00	0.00	N
ATOM	4664	CA	GLN	B	886	78.155	32.627	78.473	1.00	0.00	C
ATOM	4665	C	GLN	B	886	78.364	31.228	78.944	1.00	0.00	C
ATOM	4666	O	GLN	B	886	78.560	30.992	80.136	1.00	0.00	O
ATOM	4667	CB	GLN	B	886	76.646	32.820	78.298	1.00	0.00	C
ATOM	4668	CG	GLN	B	886	75.884	32.767	79.620	1.00	0.00	C
ATOM	4669	CD	GLN	B	886	74.413	32.684	79.265	1.00	0.00	C
ATOM	4670	NE2	GLN	B	886	73.522	33.008	80.239	1.00	0.00	N
ATOM	4671	OE1	GLN	B	886	74.074	32.316	78.141	1.00	0.00	O
ATOM	4672	N	GLY	B	887	78.339	30.260	78.011	1.00	0.00	N
ATOM	4673	CA	GLY	B	887	78.486	28.886	78.391	1.00	0.00	C
ATOM	4674	C	GLY	B	887	79.837	28.696	79.004	1.00	0.00	C
ATOM	4675	O	GLY	B	887	79.982	28.000	80.008	1.00	0.00	O
ATOM	4676	N	ILE	B	888	80.868	29.309	78.399	1.00	0.00	N
ATOM	4677	CA	ILE	B	888	82.209	29.153	78.876	1.00	0.00	C
ATOM	4678	C	ILE	B	888	82.340	29.749	80.241	1.00	0.00	C
ATOM	4679	O	ILE	B	888	82.931	29.143	81.134	1.00	0.00	O
ATOM	4680	CB	ILE	B	888	83.218	29.843	78.003	1.00	0.00	C
ATOM	4681	CG1	ILE	B	888	83.232	29.220	76.599	1.00	0.00	C
ATOM	4682	CG2	ILE	B	888	84.577	29.789	78.720	1.00	0.00	C
ATOM	4683	CD1	ILE	B	888	83.617	27.741	76.591	1.00	0.00	C
ATOM	4684	N	LEU	B	889	81.769	30.949	80.446	1.00	0.00	N
ATOM	4685	CA	LEU	B	889	81.979	31.651	81.675	1.00	0.00	C
ATOM	4686	C	LEU	B	889	81.461	30.860	82.832	1.00	0.00	C
ATOM	4687	O	LEU	B	889	82.178	30.638	83.805	1.00	0.00	O
ATOM	4688	CB	LEU	B	889	81.253	33.011	81.714	1.00	0.00	C
ATOM	4689	CG	LEU	B	889	81.714	33.998	80.628	1.00	0.00	C
ATOM	4690	CD1	LEU	B	889	80.956	35.332	80.728	1.00	0.00	C
ATOM	4691	CD2	LEU	B	889	83.240	34.175	80.640	1.00	0.00	C
ATOM	4692	N	ARG	B	890	80.203	30.391	82.756	1.00	0.00	N
ATOM	4693	CA	ARG	B	890	79.663	29.692	83.881	1.00	0.00	C
ATOM	4694	C	ARG	B	890	78.460	28.956	83.399	1.00	0.00	C
ATOM	4695	O	ARG	B	890	78.077	29.066	82.235	1.00	0.00	O
ATOM	4696	CB	ARG	B	890	79.192	30.637	84.998	1.00	0.00	C
ATOM	4697	CG	ARG	B	890	78.093	31.597	84.532	1.00	0.00	C
ATOM	4698	CD	ARG	B	890	77.732	32.684	85.545	1.00	0.00	C
ATOM	4699	NE	ARG	B	890	78.671	33.823	85.342	1.00	0.00	N
ATOM	4700	CZ	ARG	B	890	79.807	33.919	86.093	1.00	0.00	C
ATOM	4701	NH1	ARG	B	890	80.078	32.978	87.045	1.00	0.00	N

ATOM	4702	NH2 ARG B 890	80.668	34.960	85.895	1.00	0.00	N
ATOM	4703	N GLN B 891	77.832	28.162	84.287	1.00	0.00	N
ATOM	4704	CA GLN B 891	76.649	27.480	83.870	1.00	0.00	C
ATOM	4705	C GLN B 891	75.589	28.514	83.706	1.00	0.00	C
ATOM	4706	O GLN B 891	75.594	29.541	84.385	1.00	0.00	O
ATOM	4707	CB GLN B 891	76.155	26.398	84.850	1.00	0.00	C
ATOM	4708	CG GLN B 891	75.829	26.914	86.252	1.00	0.00	C
ATOM	4709	CD GLN B 891	77.131	26.950	87.032	1.00	0.00	C
ATOM	4710	NE2 GLN B 891	78.109	26.102	86.612	1.00	0.00	N
ATOM	4711	OE1 GLN B 891	77.279	27.706	87.991	1.00	0.00	O
ATOM	4712	N ASN B 892	74.664	28.281	82.758	1.00	0.00	N
ATOM	4713	CA ASN B 892	73.629	29.235	82.508	1.00	0.00	C
ATOM	4714	C ASN B 892	72.751	29.211	83.699	1.00	0.00	C
ATOM	4715	O ASN B 892	72.573	28.175	84.338	1.00	0.00	O
ATOM	4716	CB ASN B 892	72.760	28.878	81.292	1.00	0.00	C
ATOM	4717	CG ASN B 892	73.656	28.902	80.065	1.00	0.00	C
ATOM	4718	ND2 ASN B 892	73.505	29.956	79.222	1.00	0.00	N
ATOM	4719	OD1 ASN B 892	74.470	28.002	79.857	1.00	0.00	O
ATOM	4720	N GLU B 893	72.175	30.368	84.053	1.00	0.00	N
ATOM	4721	CA GLU B 893	71.347	30.293	85.209	1.00	0.00	C
ATOM	4722	C GLU B 893	70.011	29.783	84.755	1.00	0.00	C
ATOM	4723	O GLU B 893	69.284	30.516	84.068	1.00	0.00	O
ATOM	4724	CB GLU B 893	71.159	31.637	85.904	1.00	0.00	C
ATOM	4725	CG GLU B 893	70.496	31.575	87.273	1.00	0.00	C
ATOM	4726	CD GLU B 893	71.564	31.248	88.306	1.00	0.00	C
ATOM	4727	OE1 GLU B 893	72.761	31.179	87.923	1.00	0.00	O
ATOM	4728	OE2 GLU B 893	71.196	31.065	89.499	1.00	0.00	O
ATOM	4729	N GLN B 894	69.712	28.496	85.115	1.00	0.00	N
ATOM	4730	CA GLN B 894	68.503	27.777	84.794	1.00	0.00	C
ATOM	4731	C GLN B 894	67.372	28.407	85.527	1.00	0.00	C
ATOM	4732	O GLN B 894	66.303	28.642	84.963	1.00	0.00	O
ATOM	4733	CB GLN B 894	68.552	26.291	85.184	1.00	0.00	C
ATOM	4734	CG GLN B 894	68.644	26.038	86.690	1.00	0.00	C
ATOM	4735	CD GLN B 894	68.681	24.532	86.901	1.00	0.00	C
ATOM	4736	NE2 GLN B 894	69.702	23.861	86.300	1.00	0.00	N
ATOM	4737	OE1 GLN B 894	67.824	23.965	87.576	1.00	0.00	O
ATOM	4738	N ARG B 895	67.586	28.702	86.822	1.00	0.00	N
ATOM	4739	CA ARG B 895	66.543	29.335	87.562	1.00	0.00	C
ATOM	4740	C ARG B 895	66.311	30.660	86.931	1.00	0.00	C
ATOM	4741	O ARG B 895	65.170	31.054	86.696	1.00	0.00	O
ATOM	4742	CB ARG B 895	66.903	29.604	89.031	1.00	0.00	C
ATOM	4743	CG ARG B 895	66.899	28.355	89.914	1.00	0.00	C
ATOM	4744	CD ARG B 895	65.533	27.666	89.968	1.00	0.00	C
ATOM	4745	NE ARG B 895	65.531	26.753	91.143	1.00	0.00	N

ATOM	4746	CZ	ARG B 895	66.078	25.503	91.055	1.00	0.00	C
ATOM	4747	NH1	ARG B 895	66.691	25.101	89.905	1.00	0.00	N
ATOM	4748	NH2	ARG B 895	66.011	24.658	92.125	1.00	0.00	N
ATOM	4749	N	TRP B 896	67.402	31.384	86.616	1.00	0.00	N
ATOM	4750	CA	TRP B 896	67.206	32.685	86.054	1.00	0.00	C
ATOM	4751	C	TRP B 896	67.668	32.659	84.638	1.00	0.00	C
ATOM	4752	O	TRP B 896	68.775	33.104	84.322	1.00	0.00	O
ATOM	4753	CB	TRP B 896	68.002	33.761	86.809	1.00	0.00	C
ATOM	4754	CG	TRP B 896	67.512	34.029	88.216	1.00	0.00	C
ATOM	4755	CD1	TRP B 896	66.669	35.002	88.663	1.00	0.00	C
ATOM	4756	CD2	TRP B 896	67.876	33.252	89.370	1.00	0.00	C
ATOM	4757	CE2	TRP B 896	67.228	33.814	90.469	1.00	0.00	C
ATOM	4758	CE3	TRP B 896	68.682	32.161	89.506	1.00	0.00	C
ATOM	4759	NE1	TRP B 896	66.490	34.886	90.020	1.00	0.00	N
ATOM	4760	CZ2	TRP B 896	67.375	33.285	91.721	1.00	0.00	C
ATOM	4761	CZ3	TRP B 896	68.831	31.635	90.770	1.00	0.00	C
ATOM	4762	CH2	TRP B 896	68.193	32.187	91.859	1.00	0.00	C
ATOM	4763	N	ARG B 897	66.823	32.125	83.738	1.00	0.00	N
ATOM	4764	CA	ARG B 897	67.165	32.097	82.348	1.00	0.00	C
ATOM	4765	C	ARG B 897	67.131	33.496	81.836	1.00	0.00	C
ATOM	4766	O	ARG B 897	67.988	33.919	81.063	1.00	0.00	O
ATOM	4767	CB	ARG B 897	66.175	31.300	81.491	1.00	0.00	C
ATOM	4768	CG	ARG B 897	66.662	31.184	80.048	1.00	0.00	C
ATOM	4769	CD	ARG B 897	65.623	30.673	79.057	1.00	0.00	C
ATOM	4770	NE	ARG B 897	66.342	30.437	77.774	1.00	0.00	N
ATOM	4771	CZ	ARG B 897	65.732	30.675	76.575	1.00	0.00	C
ATOM	4772	NH1	ARG B 897	64.463	31.180	76.538	1.00	0.00	N
ATOM	4773	NH2	ARG B 897	66.397	30.410	75.412	1.00	0.00	N
ATOM	4774	N	TRP B 898	66.116	34.253	82.283	1.00	0.00	N
ATOM	4775	CA	TRP B 898	65.899	35.577	81.787	1.00	0.00	C
ATOM	4776	C	TRP B 898	67.061	36.450	82.111	1.00	0.00	C
ATOM	4777	O	TRP B 898	67.610	37.112	81.228	1.00	0.00	O
ATOM	4778	CB	TRP B 898	64.676	36.264	82.416	1.00	0.00	C
ATOM	4779	CG	TRP B 898	63.355	35.616	82.092	1.00	0.00	C
ATOM	4780	CD1	TRP B 898	62.527	34.888	82.894	1.00	0.00	C
ATOM	4781	CD2	TRP B 898	62.734	35.663	80.799	1.00	0.00	C
ATOM	4782	CE2	TRP B 898	61.541	34.949	80.890	1.00	0.00	C
ATOM	4783	CE3	TRP B 898	63.131	36.245	79.630	1.00	0.00	C
ATOM	4784	NE1	TRP B 898	61.425	34.481	82.185	1.00	0.00	N
ATOM	4785	CZ2	TRP B 898	60.720	34.809	79.811	1.00	0.00	C
ATOM	4786	CZ3	TRP B 898	62.297	36.102	78.543	1.00	0.00	C
ATOM	4787	CH2	TRP B 898	61.116	35.398	78.632	1.00	0.00	C
ATOM	4788	N	ILE B 899	67.481	36.476	83.387	1.00	0.00	N
ATOM	4789	CA	ILE B 899	68.511	37.409	83.735	1.00	0.00	C

ATOM	4790	C	ILE B 899	69.778	37.050	83.033	1.00	0.00	C
ATOM	4791	O	ILE B 899	70.439	37.915	82.462	1.00	0.00	O
ATOM	4792	CB	ILE B 899	68.769	37.513	85.213	1.00	0.00	C
ATOM	4793	CG1	ILE B 899	69.698	38.699	85.518	1.00	0.00	C
ATOM	4794	CG2	ILE B 899	69.296	36.167	85.715	1.00	0.00	C
ATOM	4795	CD1	ILE B 899	69.796	39.029	87.007	1.00	0.00	C
ATOM	4796	N	PHE B 900	70.147	35.756	83.039	1.00	0.00	N
ATOM	4797	CA	PHE B 900	71.374	35.366	82.412	1.00	0.00	C
ATOM	4798	C	PHE B 900	71.314	35.623	80.946	1.00	0.00	C
ATOM	4799	O	PHE B 900	72.275	36.135	80.380	1.00	0.00	O
ATOM	4800	CB	PHE B 900	71.721	33.897	82.677	1.00	0.00	C
ATOM	4801	CG	PHE B 900	72.284	33.883	84.054	1.00	0.00	C
ATOM	4802	CD1	PHE B 900	71.564	34.403	85.102	1.00	0.00	C
ATOM	4803	CD2	PHE B 900	73.563	33.433	84.284	1.00	0.00	C
ATOM	4804	CE1	PHE B 900	72.075	34.400	86.378	1.00	0.00	C
ATOM	4805	CE2	PHE B 900	74.082	33.429	85.559	1.00	0.00	C
ATOM	4806	CZ	PHE B 900	73.335	33.904	86.610	1.00	0.00	C
ATOM	4807	N	ARG B 901	70.188	35.285	80.290	1.00	0.00	N
ATOM	4808	CA	ARG B 901	70.123	35.484	78.867	1.00	0.00	C
ATOM	4809	C	ARG B 901	70.261	36.942	78.574	1.00	0.00	C
ATOM	4810	O	ARG B 901	71.006	37.334	77.678	1.00	0.00	O
ATOM	4811	CB	ARG B 901	68.803	35.022	78.229	1.00	0.00	C
ATOM	4812	CG	ARG B 901	68.829	35.125	76.699	1.00	0.00	C
ATOM	4813	CD	ARG B 901	67.540	34.674	76.013	1.00	0.00	C
ATOM	4814	NE	ARG B 901	66.693	35.882	75.804	1.00	0.00	N
ATOM	4815	CZ	ARG B 901	65.793	36.259	76.758	1.00	0.00	C
ATOM	4816	NH1	ARG B 901	65.657	35.519	77.899	1.00	0.00	N
ATOM	4817	NH2	ARG B 901	65.029	37.375	76.572	1.00	0.00	N
ATOM	4818	N	SER B 902	69.550	37.790	79.341	1.00	0.00	N
ATOM	4819	CA	SER B 902	69.593	39.202	79.080	1.00	0.00	C
ATOM	4820	C	SER B 902	70.993	39.669	79.284	1.00	0.00	C
ATOM	4821	O	SER B 902	71.509	40.475	78.512	1.00	0.00	O
ATOM	4822	CB	SER B 902	68.684	40.005	80.033	1.00	0.00	C
ATOM	4823	OG	SER B 902	69.145	39.886	81.373	1.00	0.00	O
ATOM	4824	N	VAL B 903	71.655	39.143	80.326	1.00	0.00	N
ATOM	4825	CA	VAL B 903	72.995	39.544	80.627	1.00	0.00	C
ATOM	4826	C	VAL B 903	73.860	39.150	79.478	1.00	0.00	C
ATOM	4827	O	VAL B 903	74.797	39.864	79.126	1.00	0.00	O
ATOM	4828	CB	VAL B 903	73.546	38.883	81.855	1.00	0.00	C
ATOM	4829	CG1	VAL B 903	75.040	39.232	81.973	1.00	0.00	C
ATOM	4830	CG2	VAL B 903	72.712	39.333	83.064	1.00	0.00	C
ATOM	4831	N	ILE B 904	73.568	37.989	78.863	1.00	0.00	N
ATOM	4832	CA	ILE B 904	74.390	37.517	77.790	1.00	0.00	C
ATOM	4833	C	ILE B 904	74.291	38.497	76.667	1.00	0.00	C

ATOM	4834	O	ILE B 904	75.287	38.853	76.043	1.00	0.00	O
ATOM	4835	CB	ILE B 904	73.838	36.308	77.096	1.00	0.00	C
ATOM	4836	CG1	ILE B 904	73.348	35.216	78.042	1.00	0.00	C
ATOM	4837	CG2	ILE B 904	74.943	35.798	76.160	1.00	0.00	C
ATOM	4838	CD1	ILE B 904	72.371	34.284	77.326	1.00	0.00	C
ATOM	4839	N	TYR B 905	73.048	38.881	76.318	1.00	0.00	N
ATOM	4840	CA	TYR B 905	72.850	39.720	75.173	1.00	0.00	C
ATOM	4841	C	TYR B 905	73.252	41.158	75.329	1.00	0.00	C
ATOM	4842	O	TYR B 905	74.097	41.650	74.583	1.00	0.00	O
ATOM	4843	CB	TYR B 905	71.389	39.718	74.695	1.00	0.00	C
ATOM	4844	CG	TYR B 905	71.125	38.384	74.089	1.00	0.00	C
ATOM	4845	CD1	TYR B 905	70.899	37.279	74.873	1.00	0.00	C
ATOM	4846	CD2	TYR B 905	71.102	38.249	72.719	1.00	0.00	C
ATOM	4847	CE1	TYR B 905	70.662	36.052	74.295	1.00	0.00	C
ATOM	4848	CE2	TYR B 905	70.863	37.028	72.139	1.00	0.00	C
ATOM	4849	CZ	TYR B 905	70.642	35.926	72.928	1.00	0.00	C
ATOM	4850	OH	TYR B 905	70.399	34.669	72.335	1.00	0.00	O
ATOM	4851	N	GLU B 906	72.701	41.867	76.331	1.00	0.00	N
ATOM	4852	CA	GLU B 906	72.849	43.298	76.302	1.00	0.00	C
ATOM	4853	C	GLU B 906	74.247	43.781	76.518	1.00	0.00	C
ATOM	4854	O	GLU B 906	74.728	44.591	75.729	1.00	0.00	O
ATOM	4855	CB	GLU B 906	71.920	44.033	77.285	1.00	0.00	C
ATOM	4856	CG	GLU B 906	71.948	45.548	77.088	1.00	0.00	C
ATOM	4857	CD	GLU B 906	71.383	45.833	75.704	1.00	0.00	C
ATOM	4858	OE1	GLU B 906	70.316	45.250	75.372	1.00	0.00	O
ATOM	4859	OE2	GLU B 906	72.013	46.628	74.958	1.00	0.00	O
ATOM	4860	N	PRO B 907	74.944	43.348	77.527	1.00	0.00	N
ATOM	4861	CA	PRO B 907	76.262	43.884	77.705	1.00	0.00	C
ATOM	4862	C	PRO B 907	77.182	43.423	76.627	1.00	0.00	C
ATOM	4863	O	PRO B 907	78.130	44.138	76.306	1.00	0.00	O
ATOM	4864	CB	PRO B 907	76.688	43.483	79.115	1.00	0.00	C
ATOM	4865	CG	PRO B 907	75.354	43.388	79.875	1.00	0.00	C
ATOM	4866	CD	PRO B 907	74.326	43.002	78.801	1.00	0.00	C
ATOM	4867	N	TYR B 908	76.935	42.220	76.084	1.00	0.00	N
ATOM	4868	CA	TYR B 908	77.779	41.669	75.068	1.00	0.00	C
ATOM	4869	C	TYR B 908	77.669	42.428	73.793	1.00	0.00	C
ATOM	4870	O	TYR B 908	78.667	42.617	73.098	1.00	0.00	O
ATOM	4871	CB	TYR B 908	77.590	40.157	74.864	1.00	0.00	C
ATOM	4872	CG	TYR B 908	78.328	39.545	76.012	1.00	0.00	C
ATOM	4873	CD1	TYR B 908	79.662	39.233	75.881	1.00	0.00	C
ATOM	4874	CD2	TYR B 908	77.714	39.306	77.220	1.00	0.00	C
ATOM	4875	CE1	TYR B 908	80.364	38.678	76.925	1.00	0.00	C
ATOM	4876	CE2	TYR B 908	78.405	38.749	78.269	1.00	0.00	C
ATOM	4877	CZ	TYR B 908	79.733	38.433	78.121	1.00	0.00	C

ATOM	4878	OH TYR B 908	80.451	37.862	79.193	1.00	0.00	O
ATOM	4879	N LEU B 909	76.459	42.860	73.398	1.00	0.00	N
ATOM	4880	CA LEU B 909	76.453	43.659	72.212	1.00	0.00	C
ATOM	4881	C LEU B 909	77.203	44.920	72.517	1.00	0.00	C
ATOM	4882	O LEU B 909	77.985	45.400	71.699	1.00	0.00	O
ATOM	4883	CB LEU B 909	75.048	44.046	71.710	1.00	0.00	C
ATOM	4884	CG LEU B 909	74.309	42.918	70.962	1.00	0.00	C
ATOM	4885	CD1 LEU B 909	75.045	42.558	69.662	1.00	0.00	C
ATOM	4886	CD2 LEU B 909	74.048	41.694	71.847	1.00	0.00	C
ATOM	4887	N ALA B 910	76.978	45.479	73.723	1.00	0.00	N
ATOM	4888	CA ALA B 910	77.547	46.741	74.103	1.00	0.00	C
ATOM	4889	C ALA B 910	79.049	46.730	74.208	1.00	0.00	C
ATOM	4890	O ALA B 910	79.706	47.582	73.615	1.00	0.00	O
ATOM	4891	CB ALA B 910	76.999	47.237	75.452	1.00	0.00	C
ATOM	4892	N MET B 911	79.655	45.765	74.934	1.00	0.00	N
ATOM	4893	CA MET B 911	81.083	45.864	75.105	1.00	0.00	C
ATOM	4894	C MET B 911	81.604	44.526	75.490	1.00	0.00	C
ATOM	4895	O MET B 911	80.989	43.497	75.226	1.00	0.00	O
ATOM	4896	CB MET B 911	81.539	46.787	76.250	1.00	0.00	C
ATOM	4897	CG MET B 911	81.189	48.270	76.106	1.00	0.00	C
ATOM	4898	SD MET B 911	79.476	48.704	76.525	1.00	0.00	S
ATOM	4899	CE MET B 911	79.792	50.489	76.604	1.00	0.00	C
ATOM	4900	N PHE B 912	82.811	44.503	76.091	1.00	0.00	N
ATOM	4901	CA PHE B 912	83.297	43.230	76.514	1.00	0.00	C
ATOM	4902	C PHE B 912	83.942	43.409	77.847	1.00	0.00	C
ATOM	4903	O PHE B 912	84.854	44.222	77.994	1.00	0.00	O
ATOM	4904	CB PHE B 912	84.310	42.648	75.519	1.00	0.00	C
ATOM	4905	CG PHE B 912	83.556	42.585	74.234	1.00	0.00	C
ATOM	4906	CD1 PHE B 912	83.515	43.685	73.404	1.00	0.00	C
ATOM	4907	CD2 PHE B 912	82.870	41.452	73.867	1.00	0.00	C
ATOM	4908	CE1 PHE B 912	82.816	43.651	72.223	1.00	0.00	C
ATOM	4909	CE2 PHE B 912	82.170	41.412	72.685	1.00	0.00	C
ATOM	4910	CZ PHE B 912	82.143	42.510	71.862	1.00	0.00	C
ATOM	4911	N GLY B 913	83.482	42.662	78.876	1.00	0.00	N
ATOM	4912	CA GLY B 913	82.355	41.770	78.810	1.00	0.00	C
ATOM	4913	C GLY B 913	81.362	42.194	79.859	1.00	0.00	C
ATOM	4914	O GLY B 913	81.094	43.378	80.053	1.00	0.00	O
ATOM	4915	N GLN B 914	80.783	41.201	80.570	1.00	0.00	N
ATOM	4916	CA GLN B 914	79.842	41.442	81.632	1.00	0.00	C
ATOM	4917	C GLN B 914	80.627	41.779	82.858	1.00	0.00	C
ATOM	4918	O GLN B 914	81.848	41.630	82.859	1.00	0.00	O
ATOM	4919	CB GLN B 914	78.961	40.219	81.946	1.00	0.00	C
ATOM	4920	CG GLN B 914	78.037	40.394	83.152	1.00	0.00	C
ATOM	4921	CD GLN B 914	77.086	41.543	82.872	1.00	0.00	C

ATOM	4922	NE2	GLN B 914	76.311	41.951	83.912	1.00	0.00	N
ATOM	4923	OE1	GLN B 914	77.034	42.067	81.760	1.00	0.00	O
ATOM	4924	N	VAL B 915	79.953	42.325	83.899	1.00	0.00	N
ATOM	4925	CA	VAL B 915	80.601	42.596	85.153	1.00	0.00	C
ATOM	4926	C	VAL B 915	79.836	41.937	86.271	1.00	0.00	C
ATOM	4927	O	VAL B 915	78.862	42.474	86.792	1.00	0.00	O
ATOM	4928	CB	VAL B 915	80.715	44.065	85.455	1.00	0.00	C
ATOM	4929	CG1	VAL B 915	81.764	44.679	84.513	1.00	0.00	C
ATOM	4930	CG2	VAL B 915	79.333	44.711	85.280	1.00	0.00	C
ATOM	4931	N	PRO B 916	80.239	39.821	85.492	1.00	0.00	N
ATOM	4932	CA	PRO B 916	79.549	39.211	86.598	1.00	0.00	C
ATOM	4933	C	PRO B 916	79.992	39.877	87.858	1.00	0.00	C
ATOM	4934	O	PRO B 916	81.082	40.446	87.880	1.00	0.00	O
ATOM	4935	CB	PRO B 916	79.884	37.725	86.534	1.00	0.00	C
ATOM	4936	CG	PRO B 916	80.145	37.478	85.038	1.00	0.00	C
ATOM	4937	CD	PRO B 916	80.670	38.831	84.518	1.00	0.00	C
ATOM	4938	N	SER B 917	79.169	39.827	88.916	1.00	0.00	N
ATOM	4939	CA	SER B 917	79.597	40.445	90.132	1.00	0.00	C
ATOM	4940	C	SER B 917	80.769	39.655	90.604	1.00	0.00	C
ATOM	4941	O	SER B 917	80.999	38.535	90.148	1.00	0.00	O
ATOM	4942	CB	SER B 917	78.537	40.435	91.246	1.00	0.00	C
ATOM	4943	OG	SER B 917	77.427	41.230	90.859	1.00	0.00	O
ATOM	4944	N	ASP B 918	81.536	40.219	91.553	1.00	0.00	N
ATOM	4945	CA	ASP B 918	82.746	39.583	91.989	1.00	0.00	C
ATOM	4946	C	ASP B 918	82.444	38.203	92.469	1.00	0.00	C
ATOM	4947	O	ASP B 918	81.365	37.917	92.984	1.00	0.00	O
ATOM	4948	CB	ASP B 918	83.475	40.336	93.116	1.00	0.00	C
ATOM	4949	CG	ASP B 918	84.104	41.585	92.516	1.00	0.00	C
ATOM	4950	OD1	ASP B 918	84.125	41.696	91.263	1.00	0.00	O
ATOM	4951	OD2	ASP B 918	84.575	42.445	93.304	1.00	0.00	O
ATOM	4952	N	VAL B 919	83.431	37.302	92.287	1.00	0.00	N
ATOM	4953	CA	VAL B 919	83.255	35.924	92.623	1.00	0.00	C
ATOM	4954	C	VAL B 919	83.446	35.753	94.089	1.00	0.00	C
ATOM	4955	O	VAL B 919	84.526	35.971	94.635	1.00	0.00	O
ATOM	4956	CB	VAL B 919	84.206	35.021	91.886	1.00	0.00	C
ATOM	4957	CG1	VAL B 919	85.651	35.455	92.188	1.00	0.00	C
ATOM	4958	CG2	VAL B 919	83.897	33.569	92.278	1.00	0.00	C
ATOM	4959	N	ASP B 920	82.356	35.356	94.768	1.00	0.00	N
ATOM	4960	CA	ASP B 920	82.434	35.125	96.175	1.00	0.00	C
ATOM	4961	C	ASP B 920	82.818	33.700	96.330	1.00	0.00	C
ATOM	4962	O	ASP B 920	81.984	32.803	96.217	1.00	0.00	O
ATOM	4963	CB	ASP B 920	81.095	35.298	96.908	1.00	0.00	C
ATOM	4964	CG	ASP B 920	81.340	35.020	98.383	1.00	0.00	C
ATOM	4965	OD1	ASP B 920	82.534	34.996	98.787	1.00	0.00	O

ATOM	4966	OD2 ASP B 920	80.343	34.823	99.123	1.00	0.00	O
ATOM	4967	N GLY B 921	84.108	33.450	96.584	1.00	0.00	N
ATOM	4968	CA GLY B 921	84.475	32.089	96.769	1.00	0.00	C
ATOM	4969	C GLY B 921	83.885	31.736	98.085	1.00	0.00	C
ATOM	4970	O GLY B 921	83.389	32.600	98.806	1.00	0.00	O
ATOM	4971	N THR B 922	83.879	30.444	98.425	1.00	0.00	N
ATOM	4972	CA THR B 922	83.394	30.104	99.720	1.00	0.00	C
ATOM	4973	C THR B 922	84.392	30.699	100.655	1.00	0.00	C
ATOM	4974	O THR B 922	84.076	31.063	101.787	1.00	0.00	O
ATOM	4975	CB THR B 922	83.343	28.628	99.970	1.00	0.00	C
ATOM	4976	CG2 THR B 922	84.777	28.076	100.014	1.00	0.00	C
ATOM	4977	OG1 THR B 922	82.674	28.363	101.194	1.00	0.00	O
ATOM	4978	N THR B 923	85.641	30.804	100.163	1.00	0.00	N
ATOM	4979	CA THR B 923	86.780	31.256	100.904	1.00	0.00	C
ATOM	4980	C THR B 923	86.660	32.720	101.175	1.00	0.00	C
ATOM	4981	O THR B 923	85.927	33.440	100.498	1.00	0.00	O
ATOM	4982	CB THR B 923	88.054	31.030	100.144	1.00	0.00	C
ATOM	4983	CG2 THR B 923	89.256	31.447	101.009	1.00	0.00	C
ATOM	4984	OG1 THR B 923	88.168	29.659	99.802	1.00	0.00	O
ATOM	4985	N TYR B 924	87.395	33.193	102.202	1.00	0.00	N
ATOM	4986	CA TYR B 924	87.377	34.581	102.550	1.00	0.00	C
ATOM	4987	C TYR B 924	88.685	35.128	102.092	1.00	0.00	C
ATOM	4988	O TYR B 924	89.749	34.677	102.513	1.00	0.00	O
ATOM	4989	CB TYR B 924	87.292	34.838	104.067	1.00	0.00	C
ATOM	4990	CG TYR B 924	86.013	34.259	104.561	1.00	0.00	C
ATOM	4991	CD1 TYR B 924	85.938	32.923	104.885	1.00	0.00	C
ATOM	4992	CD2 TYR B 924	84.890	35.041	104.706	1.00	0.00	C
ATOM	4993	CE1 TYR B 924	84.764	32.377	105.344	1.00	0.00	C
ATOM	4994	CE2 TYR B 924	83.712	34.500	105.165	1.00	0.00	C
ATOM	4995	CZ TYR B 924	83.646	33.165	105.485	1.00	0.00	C
ATOM	4996	OH TYR B 924	82.440	32.607	105.956	1.00	0.00	O
ATOM	4997	N ASP B 925	88.614	36.108	101.179	1.00	0.00	N
ATOM	4998	CA ASP B 925	89.776	36.714	100.619	1.00	0.00	C
ATOM	4999	C ASP B 925	90.269	37.700	101.622	1.00	0.00	C
ATOM	5000	O ASP B 925	89.568	38.029	102.579	1.00	0.00	O
ATOM	5001	CB ASP B 925	89.447	37.493	99.333	1.00	0.00	C
ATOM	5002	CG ASP B 925	90.723	37.953	98.650	1.00	0.00	C
ATOM	5003	OD1 ASP B 925	91.806	37.393	98.961	1.00	0.00	O
ATOM	5004	OD2 ASP B 925	90.631	38.875	97.799	1.00	0.00	O
ATOM	5005	N PHE B 926	91.517	38.162	101.442	1.00	0.00	N
ATOM	5006	CA PHE B 926	92.005	39.201	102.282	1.00	0.00	C
ATOM	5007	C PHE B 926	91.421	40.436	101.697	1.00	0.00	C
ATOM	5008	O PHE B 926	91.157	40.497	100.497	1.00	0.00	O
ATOM	5009	CB PHE B 926	93.541	39.306	102.323	1.00	0.00	C

ATOM	5010	CG	PHE B 926	94.045	39.545	100.942	1.00	0.00	C
ATOM	5011	CD1	PHE B 926	94.064	38.522	100.024	1.00	0.00	C
ATOM	5012	CD2	PHE B 926	94.525	40.781	100.572	1.00	0.00	C
ATOM	5013	CE1	PHE B 926	94.538	38.729	98.749	1.00	0.00	C
ATOM	5014	CE2	PHE B 926	95.000	40.994	99.299	1.00	0.00	C
ATOM	5015	CZ	PHE B 926	95.004	39.969	98.383	1.00	0.00	C
ATOM	5016	N	ALA B 927	91.172	41.455	102.534	1.00	0.00	N
ATOM	5017	CA	ALA B 927	90.536	42.626	102.018	1.00	0.00	C
ATOM	5018	C	ALA B 927	91.435	43.227	100.994	1.00	0.00	C
ATOM	5019	O	ALA B 927	92.651	43.046	101.026	1.00	0.00	O
ATOM	5020	CB	ALA B 927	90.254	43.695	103.086	1.00	0.00	C
HETATM	5021	N	HIE B 928	90.840	43.936	100.025	1.00	0.00	N
HETATM	5022	CA	HIE B 928	91.667	44.520	99.027	1.00	0.00	C
HETATM	5023	C	HIE B 928	92.188	45.797	99.578	1.00	0.00	C
HETATM	5024	O	HIE B 928	91.483	46.517	100.284	1.00	0.00	O
HETATM	5025	CB	HIE B 928	90.939	44.819	97.705	1.00	0.00	C
HETATM	5026	CG	HIE B 928	91.884	45.286	96.645	1.00	0.00	C
HETATM	5027	CD2	HIE B 928	91.896	46.436	95.916	1.00	0.00	C
HETATM	5028	ND1	HIE B 928	92.963	44.551	96.214	1.00	0.00	N
HETATM	5029	CE1	HIE B 928	93.578	45.290	95.253	1.00	0.00	C
HETATM	5030	NE2	HIE B 928	92.966	46.439	95.036	1.00	0.00	N
ATOM	5031	N	CYS B 929	93.462	46.106	99.284	1.00	0.00	N
ATOM	5032	CA	CYS B 929	93.994	47.331	99.782	1.00	0.00	C
ATOM	5033	C	CYS B 929	93.243	48.417	99.092	1.00	0.00	C
ATOM	5034	O	CYS B 929	92.940	48.322	97.903	1.00	0.00	O
ATOM	5035	CB	CYS B 929	95.505	47.499	99.530	1.00	0.00	C
ATOM	5036	SG	CYS B 929	95.950	47.316	97.781	1.00	0.00	S
ATOM	5037	N	THR B 930	92.907	49.482	99.839	1.00	0.00	N
ATOM	5038	CA	THR B 930	92.082	50.513	99.290	1.00	0.00	C
ATOM	5039	C	THR B 930	92.769	51.136	98.119	1.00	0.00	C
ATOM	5040	O	THR B 930	92.159	51.309	97.065	1.00	0.00	O
ATOM	5041	CB	THR B 930	91.732	51.583	100.285	1.00	0.00	C
ATOM	5042	CG2	THR B 930	93.008	52.318	100.734	1.00	0.00	C
ATOM	5043	OG1	THR B 930	90.807	52.494	99.712	1.00	0.00	O
ATOM	5044	N	PHE B 931	94.065	51.472	98.254	1.00	0.00	N
ATOM	5045	CA	PHE B 931	94.731	52.062	97.137	1.00	0.00	C
ATOM	5046	C	PHE B 931	94.965	50.945	96.181	1.00	0.00	C
ATOM	5047	O	PHE B 931	95.182	49.807	96.592	1.00	0.00	O
ATOM	5048	CB	PHE B 931	96.083	52.696	97.508	1.00	0.00	C
ATOM	5049	CG	PHE B 931	95.774	53.773	98.489	1.00	0.00	C
ATOM	5050	CD1	PHE B 931	95.607	53.472	99.819	1.00	0.00	C
ATOM	5051	CD2	PHE B 931	95.641	55.082	98.082	1.00	0.00	C
ATOM	5052	CE1	PHE B 931	95.315	54.458	100.736	1.00	0.00	C
ATOM	5053	CE2	PHE B 931	95.351	56.070	98.995	1.00	0.00	C

ATOM	5054	CZ	PHE B 931	95.188	55.761	100.323	1.00	0.00	C
ATOM	5055	N	THR B 932	94.894	51.229	94.871	1.00	0.00	N
ATOM	5056	CA	THR B 932	95.079	50.169	93.925	1.00	0.00	C
ATOM	5057	C	THR B 932	96.539	50.056	93.643	1.00	0.00	C
ATOM	5058	O	THR B 932	97.358	50.685	94.314	1.00	0.00	O
ATOM	5059	CB	THR B 932	94.356	50.389	92.625	1.00	0.00	C
ATOM	5060	CG2	THR B 932	92.851	50.513	92.917	1.00	0.00	C
ATOM	5061	OG1	THR B 932	94.833	51.559	91.983	1.00	0.00	O
ATOM	5062	N	GLY B 933	96.900	49.209	92.660	1.00	0.00	N
ATOM	5063	CA	GLY B 933	98.278	49.029	92.304	1.00	0.00	C
ATOM	5064	C	GLY B 933	98.327	48.793	90.828	1.00	0.00	C
ATOM	5065	O	GLY B 933	97.345	48.357	90.229	1.00	0.00	O
ATOM	5066	N	ASN B 934	99.488	49.082	90.203	1.00	0.00	N
ATOM	5067	CA	ASN B 934	99.596	48.954	88.778	1.00	0.00	C
ATOM	5068	C	ASN B 934	99.407	47.524	88.372	1.00	0.00	C
ATOM	5069	O	ASN B 934	98.505	47.205	87.599	1.00	0.00	O
ATOM	5070	CB	ASN B 934	100.975	49.397	88.255	1.00	0.00	C
ATOM	5071	CG	ASN B 934	100.917	49.480	86.735	1.00	0.00	C
ATOM	5072	ND2	ASN B 934	100.388	48.403	86.094	1.00	0.00	N
ATOM	5073	OD1	ASN B 934	101.339	50.466	86.133	1.00	0.00	O
ATOM	5074	N	GLU B 935	100.227	46.605	88.915	1.00	0.00	N
ATOM	5075	CA	GLU B 935	100.078	45.241	88.502	1.00	0.00	C
ATOM	5076	C	GLU B 935	99.636	44.477	89.697	1.00	0.00	C
ATOM	5077	O	GLU B 935	99.947	44.846	90.829	1.00	0.00	O
ATOM	5078	CB	GLU B 935	101.370	44.588	87.991	1.00	0.00	C
ATOM	5079	CG	GLU B 935	101.129	43.178	87.444	1.00	0.00	C
ATOM	5080	CD	GLU B 935	102.457	42.629	86.946	1.00	0.00	C
ATOM	5081	OE1	GLU B 935	103.242	43.422	86.359	1.00	0.00	O
ATOM	5082	OE2	GLU B 935	102.703	41.412	87.146	1.00	0.00	O
ATOM	5083	N	SER B 936	98.871	43.394	89.475	1.00	0.00	N
ATOM	5084	CA	SER B 936	98.394	42.665	90.606	1.00	0.00	C
ATOM	5085	C	SER B 936	98.491	41.208	90.305	1.00	0.00	C
ATOM	5086	O	SER B 936	98.634	40.803	89.151	1.00	0.00	O
ATOM	5087	CB	SER B 936	96.924	42.969	90.935	1.00	0.00	C
ATOM	5088	OG	SER B 936	96.500	42.223	92.067	1.00	0.00	O
ATOM	5089	N	LYS B 937	98.466	40.377	91.366	1.00	0.00	N
ATOM	5090	CA	LYS B 937	98.469	38.962	91.151	1.00	0.00	C
ATOM	5091	C	LYS B 937	97.368	38.396	91.997	1.00	0.00	C
ATOM	5092	O	LYS B 937	97.520	38.146	93.190	1.00	0.00	O
ATOM	5093	CB	LYS B 937	99.790	38.291	91.559	1.00	0.00	C
ATOM	5094	CG	LYS B 937	100.968	38.734	90.687	1.00	0.00	C
ATOM	5095	CD	LYS B 937	100.777	38.425	89.201	1.00	0.00	C
ATOM	5096	CE	LYS B 937	101.955	38.858	88.322	1.00	0.00	C
ATOM	5097	NZ	LYS B 937	101.684	38.518	86.908	1.00	0.00	N1+

ATOM	5098	N	PRO B 938	96.249	38.198	91.363	1.00	0.00	N
ATOM	5099	CA	PRO B 938	95.084	37.648	92.007	1.00	0.00	C
ATOM	5100	C	PRO B 938	95.214	36.163	92.103	1.00	0.00	C
ATOM	5101	O	PRO B 938	96.231	35.623	91.679	1.00	0.00	O
ATOM	5102	CB	PRO B 938	93.879	38.099	91.175	1.00	0.00	C
ATOM	5103	CG	PRO B 938	94.480	38.602	89.854	1.00	0.00	C
ATOM	5104	CD	PRO B 938	95.890	39.061	90.251	1.00	0.00	C
ATOM	5105	N	LEU B 939	94.192	35.486	92.659	1.00	0.00	N
ATOM	5106	CA	LEU B 939	94.256	34.068	92.853	1.00	0.00	C
ATOM	5107	C	LEU B 939	94.307	33.383	91.529	1.00	0.00	C
ATOM	5108	O	LEU B 939	93.458	33.586	90.661	1.00	0.00	O
ATOM	5109	CB	LEU B 939	93.059	33.530	93.648	1.00	0.00	C
ATOM	5110	CG	LEU B 939	92.988	34.116	95.070	1.00	0.00	C
ATOM	5111	CD1	LEU B 939	92.726	35.632	95.060	1.00	0.00	C
ATOM	5112	CD2	LEU B 939	91.965	33.363	95.919	1.00	0.00	C
ATOM	5113	N	CYS B 940	95.330	32.523	91.364	1.00	0.00	N
ATOM	5114	CA	CYS B 940	95.492	31.849	90.117	1.00	0.00	C
ATOM	5115	C	CYS B 940	94.363	30.938	89.950	1.00	0.00	C
ATOM	5116	O	CYS B 940	94.022	30.131	90.811	1.00	0.00	O
ATOM	5117	CB	CYS B 940	96.776	31.016	89.995	1.00	0.00	C
ATOM	5118	SG	CYS B 940	98.253	32.060	89.859	1.00	0.00	S
ATOM	5119	N	VAL B 941	93.737	31.063	88.789	1.00	0.00	N
ATOM	5120	CA	VAL B 941	92.642	30.203	88.579	1.00	0.00	C
ATOM	5121	C	VAL B 941	92.791	29.717	87.189	1.00	0.00	C
ATOM	5122	O	VAL B 941	93.572	30.250	86.404	1.00	0.00	O
ATOM	5123	CB	VAL B 941	91.337	30.914	88.724	1.00	0.00	C
ATOM	5124	CG1	VAL B 941	91.245	31.431	90.171	1.00	0.00	C
ATOM	5125	CG2	VAL B 941	91.267	32.027	87.668	1.00	0.00	C
ATOM	5126	N	GLU B 942	92.099	28.616	86.876	1.00	0.00	N
ATOM	5127	CA	GLU B 942	92.147	28.126	85.541	1.00	0.00	C
ATOM	5128	C	GLU B 942	91.400	29.088	84.666	1.00	0.00	C
ATOM	5129	O	GLU B 942	91.762	29.289	83.507	1.00	0.00	O
ATOM	5130	CB	GLU B 942	91.510	26.737	85.379	1.00	0.00	C
ATOM	5131	CG	GLU B 942	91.580	26.218	83.945	1.00	0.00	C
ATOM	5132	CD	GLU B 942	91.075	24.781	83.933	1.00	0.00	C
ATOM	5133	OE1	GLU B 942	90.907	24.206	85.040	1.00	0.00	O
ATOM	5134	OE2	GLU B 942	90.853	24.244	82.814	1.00	0.00	O
ATOM	5135	N	LEU B 943	90.324	29.696	85.214	1.00	0.00	N
ATOM	5136	CA	LEU B 943	89.428	30.568	84.487	1.00	0.00	C
ATOM	5137	C	LEU B 943	89.914	31.996	84.459	1.00	0.00	C
ATOM	5138	O	LEU B 943	91.000	32.293	84.950	1.00	0.00	O
ATOM	5139	CB	LEU B 943	87.987	30.530	85.016	1.00	0.00	C
ATOM	5140	CG	LEU B 943	87.319	29.167	84.765	1.00	0.00	C
ATOM	5141	CD1	LEU B 943	88.051	28.041	85.509	1.00	0.00	C

ATOM	5142	CD2 LEU B 943	85.814	29.210	85.077	1.00	0.00	C
ATOM	5143	N ASP B 944	89.128	32.906	83.815	1.00	0.00	N
ATOM	5144	CA ASP B 944	89.478	34.300	83.601	1.00	0.00	C
ATOM	5145	C ASP B 944	88.637	35.259	84.437	1.00	0.00	C
ATOM	5146	O ASP B 944	87.958	34.834	85.372	1.00	0.00	O
ATOM	5147	CB ASP B 944	89.319	34.725	82.134	1.00	0.00	C
ATOM	5148	CG ASP B 944	90.342	33.946	81.317	1.00	0.00	C
ATOM	5149	OD1 ASP B 944	91.522	33.863	81.756	1.00	0.00	O
ATOM	5150	OD2 ASP B 944	89.957	33.425	80.235	1.00	0.00	O
ATOM	5151	N GLU B 945	88.709	36.598	84.140	1.00	0.00	N
ATOM	5152	CA GLU B 945	87.958	37.625	84.846	1.00	0.00	C
ATOM	5153	C GLU B 945	88.262	38.997	84.257	1.00	0.00	C
ATOM	5154	O GLU B 945	88.799	39.099	83.157	1.00	0.00	O
ATOM	5155	CB GLU B 945	88.253	37.653	86.355	1.00	0.00	C
ATOM	5156	CG GLU B 945	87.236	38.462	87.162	1.00	0.00	C
ATOM	5157	CD GLU B 945	87.603	38.350	88.633	1.00	0.00	C
ATOM	5158	OE1 GLU B 945	88.596	37.636	88.942	1.00	0.00	O
ATOM	5159	OE2 GLU B 945	86.897	38.969	89.470	1.00	0.00	O
HETATM	5160	N HIE B 946	87.878	40.112	84.945	1.00	0.00	N
HETATM	5161	CA HIE B 946	88.167	41.427	84.413	1.00	0.00	C
HETATM	5162	C HIE B 946	88.805	42.269	85.478	1.00	0.00	C
HETATM	5163	O HIE B 946	88.466	42.171	86.655	1.00	0.00	O
HETATM	5164	CB HIE B 946	86.932	42.195	83.918	1.00	0.00	C
HETATM	5165	CG HIE B 946	86.084	42.717	85.034	1.00	0.00	C
HETATM	5166	CD2 HIE B 946	85.995	43.978	85.547	1.00	0.00	C
HETATM	5167	ND1 HIE B 946	85.205	41.953	85.763	1.00	0.00	N
HETATM	5168	CE1 HIE B 946	84.629	42.777	86.676	1.00	0.00	C
HETATM	5169	NE2 HIE B 946	85.077	44.015	86.581	1.00	0.00	N
ATOM	5170	N ASN B 947	89.761	43.135	85.079	1.00	0.00	N
ATOM	5171	CA ASN B 947	90.444	43.960	86.037	1.00	0.00	C
ATOM	5172	C ASN B 947	90.767	45.270	85.398	1.00	0.00	C
ATOM	5173	O ASN B 947	90.282	45.606	84.322	1.00	0.00	O
ATOM	5174	CB ASN B 947	91.783	43.368	86.519	1.00	0.00	C
ATOM	5175	CG ASN B 947	91.492	42.137	87.367	1.00	0.00	C
ATOM	5176	ND2 ASN B 947	92.297	41.058	87.165	1.00	0.00	N
ATOM	5177	OD1 ASN B 947	90.577	42.130	88.186	1.00	0.00	O
ATOM	5178	N LEU B 948	91.592	46.062	86.105	1.00	0.00	N
ATOM	5179	CA LEU B 948	92.052	47.343	85.658	1.00	0.00	C
ATOM	5180	C LEU B 948	92.892	47.135	84.427	1.00	0.00	C
ATOM	5181	O LEU B 948	92.794	47.927	83.486	1.00	0.00	O
ATOM	5182	CB LEU B 948	92.947	48.030	86.704	1.00	0.00	C
ATOM	5183	CG LEU B 948	92.271	48.233	88.071	1.00	0.00	C
ATOM	5184	CD1 LEU B 948	93.228	48.922	89.048	1.00	0.00	C
ATOM	5185	CD2 LEU B 948	90.937	48.986	87.942	1.00	0.00	C

ATOM	5186	N	PRO B 949	93.714	46.111	84.379	1.00	0.00	N
ATOM	5187	CA	PRO B 949	94.523	45.918	83.206	1.00	0.00	C
ATOM	5188	C	PRO B 949	93.700	45.495	82.041	1.00	0.00	C
ATOM	5189	O	PRO B 949	92.585	45.012	82.238	1.00	0.00	O
ATOM	5190	CB	PRO B 949	95.596	44.901	83.592	1.00	0.00	C
ATOM	5191	CG	PRO B 949	95.777	45.129	85.102	1.00	0.00	C
ATOM	5192	CD	PRO B 949	94.403	45.634	85.573	1.00	0.00	C
ATOM	5193	N	ARG B 950	94.229	45.690	80.816	1.00	0.00	N
ATOM	5194	CA	ARG B 950	93.498	45.348	79.636	1.00	0.00	C
ATOM	5195	C	ARG B 950	93.945	44.001	79.165	1.00	0.00	C
ATOM	5196	O	ARG B 950	94.891	43.875	78.387	1.00	0.00	O
ATOM	5197	CB	ARG B 950	93.752	46.346	78.500	1.00	0.00	C
ATOM	5198	CG	ARG B 950	93.163	45.934	77.152	1.00	0.00	C
ATOM	5199	CD	ARG B 950	93.442	46.962	76.054	1.00	0.00	C
ATOM	5200	NE	ARG B 950	93.104	46.323	74.750	1.00	0.00	N
ATOM	5201	CZ	ARG B 950	91.813	46.303	74.318	1.00	0.00	C
ATOM	5202	NH1	ARG B 950	90.823	46.824	75.100	1.00	0.00	N
ATOM	5203	NH2	ARG B 950	91.510	45.758	73.105	1.00	0.00	N
ATOM	5204	N	PHE B 951	93.256	42.958	79.657	1.00	0.00	N
ATOM	5205	CA	PHE B 951	93.453	41.591	79.272	1.00	0.00	C
ATOM	5206	C	PHE B 951	92.962	41.419	77.856	1.00	0.00	C
ATOM	5207	O	PHE B 951	93.593	40.724	77.059	1.00	0.00	O
ATOM	5208	CB	PHE B 951	92.651	40.616	80.152	1.00	0.00	C
ATOM	5209	CG	PHE B 951	93.093	40.821	81.559	1.00	0.00	C
ATOM	5210	CD1	PHE B 951	94.192	40.163	82.055	1.00	0.00	C
ATOM	5211	CD2	PHE B 951	92.400	41.686	82.379	1.00	0.00	C
ATOM	5212	CE1	PHE B 951	94.592	40.363	83.356	1.00	0.00	C
ATOM	5213	CE2	PHE B 951	92.801	41.889	83.679	1.00	0.00	C
ATOM	5214	CZ	PHE B 951	93.898	41.224	84.169	1.00	0.00	C
ATOM	5215	N	PRO B 952	91.857	42.037	77.503	1.00	0.00	N
ATOM	5216	CA	PRO B 952	91.356	41.879	76.165	1.00	0.00	C
ATOM	5217	C	PRO B 952	92.282	42.450	75.151	1.00	0.00	C
ATOM	5218	O	PRO B 952	91.994	42.343	73.961	1.00	0.00	O
ATOM	5219	CB	PRO B 952	89.956	42.491	76.163	1.00	0.00	C
ATOM	5220	CG	PRO B 952	89.466	42.242	77.596	1.00	0.00	C
ATOM	5221	CD	PRO B 952	90.752	42.229	78.439	1.00	0.00	C
ATOM	5222	N	GLU B 953	93.381	43.085	75.574	1.00	0.00	N
ATOM	5223	CA	GLU B 953	94.278	43.606	74.589	1.00	0.00	C
ATOM	5224	C	GLU B 953	94.774	42.443	73.784	1.00	0.00	C
ATOM	5225	O	GLU B 953	94.920	42.540	72.569	1.00	0.00	O
ATOM	5226	CB	GLU B 953	95.495	44.312	75.204	1.00	0.00	C
ATOM	5227	CG	GLU B 953	96.319	45.117	74.192	1.00	0.00	C
ATOM	5228	CD	GLU B 953	97.127	44.152	73.338	1.00	0.00	C
ATOM	5229	OE1	GLU B 953	97.823	43.279	73.925	1.00	0.00	O

ATOM	5230	OE2	GLU	B	953	97.055	44.269	72.086	1.00	0.00	O
ATOM	5231	N	TRP	B	954	95.044	41.301	74.448	1.00	0.00	N
ATOM	5232	CA	TRP	B	954	95.570	40.134	73.796	1.00	0.00	C
ATOM	5233	C	TRP	B	954	94.606	39.591	72.785	1.00	0.00	C
ATOM	5234	O	TRP	B	954	94.997	39.237	71.674	1.00	0.00	O
ATOM	5235	CB	TRP	B	954	95.884	38.989	74.776	1.00	0.00	C
ATOM	5236	CG	TRP	B	954	96.235	37.689	74.091	1.00	0.00	C
ATOM	5237	CD1	TRP	B	954	95.464	36.581	73.909	1.00	0.00	C
ATOM	5238	CD2	TRP	B	954	97.496	37.416	73.456	1.00	0.00	C
ATOM	5239	CE2	TRP	B	954	97.414	36.133	72.918	1.00	0.00	C
ATOM	5240	CE3	TRP	B	954	98.621	38.175	73.327	1.00	0.00	C
ATOM	5241	NE1	TRP	B	954	96.163	35.628	73.206	1.00	0.00	N
ATOM	5242	CZ2	TRP	B	954	98.463	35.583	72.239	1.00	0.00	C
ATOM	5243	CZ3	TRP	B	954	99.682	37.618	72.646	1.00	0.00	C
ATOM	5244	CH2	TRP	B	954	99.602	36.346	72.113	1.00	0.00	C
ATOM	5245	N	ILE	B	955	93.308	39.543	73.131	1.00	0.00	N
ATOM	5246	CA	ILE	B	955	92.309	38.945	72.290	1.00	0.00	C
ATOM	5247	C	ILE	B	955	92.263	39.672	70.987	1.00	0.00	C
ATOM	5248	O	ILE	B	955	91.898	39.100	69.964	1.00	0.00	O
ATOM	5249	CB	ILE	B	955	90.917	38.954	72.859	1.00	0.00	C
ATOM	5250	CG1	ILE	B	955	90.360	40.379	72.983	1.00	0.00	C
ATOM	5251	CG2	ILE	B	955	90.957	38.185	74.188	1.00	0.00	C
ATOM	5252	CD1	ILE	B	955	88.858	40.418	73.256	1.00	0.00	C
ATOM	5253	N	THR	B	956	92.635	40.964	70.993	1.00	0.00	N
ATOM	5254	CA	THR	B	956	92.490	41.799	69.839	1.00	0.00	C
ATOM	5255	C	THR	B	956	93.149	41.164	68.661	1.00	0.00	C
ATOM	5256	O	THR	B	956	92.642	41.305	67.553	1.00	0.00	O
ATOM	5257	CB	THR	B	956	93.116	43.152	69.999	1.00	0.00	C
ATOM	5258	CG2	THR	B	956	92.569	43.794	71.286	1.00	0.00	C
ATOM	5259	OG1	THR	B	956	94.529	43.036	70.071	1.00	0.00	O
ATOM	5260	N	ILE	B	957	94.286	40.468	68.820	1.00	0.00	N
ATOM	5261	CA	ILE	B	957	94.852	39.927	67.618	1.00	0.00	C
ATOM	5262	C	ILE	B	957	93.908	38.946	66.970	1.00	0.00	C
ATOM	5263	O	ILE	B	957	93.778	39.007	65.747	1.00	0.00	O
ATOM	5264	CB	ILE	B	957	96.293	39.451	67.730	1.00	0.00	C
ATOM	5265	CG1	ILE	B	957	96.547	38.382	68.807	1.00	0.00	C
ATOM	5266	CG2	ILE	B	957	97.152	40.708	67.928	1.00	0.00	C
ATOM	5267	CD1	ILE	B	957	97.933	37.742	68.718	1.00	0.00	C
ATOM	5268	N	PRO	B	958	93.219	38.047	67.635	1.00	0.00	N
ATOM	5269	CA	PRO	B	958	92.263	37.254	66.910	1.00	0.00	C
ATOM	5270	C	PRO	B	958	91.106	38.113	66.523	1.00	0.00	C
ATOM	5271	O	PRO	B	958	90.399	37.782	65.569	1.00	0.00	O
ATOM	5272	CB	PRO	B	958	91.879	36.099	67.831	1.00	0.00	C
ATOM	5273	CG	PRO	B	958	93.124	35.917	68.715	1.00	0.00	C

ATOM	5274	CD	PRO	B	958	93.742	37.320	68.785	1.00	0.00	C
ATOM	5275	N	LEU	B	959	90.894	39.217	67.263	1.00	0.00	N
ATOM	5276	CA	LEU	B	959	89.808	40.112	67.018	1.00	0.00	C
ATOM	5277	C	LEU	B	959	90.049	40.698	65.666	1.00	0.00	C
ATOM	5278	O	LEU	B	959	89.117	40.957	64.906	1.00	0.00	O
ATOM	5279	CB	LEU	B	959	89.734	41.248	68.053	1.00	0.00	C
ATOM	5280	CG	LEU	B	959	88.475	42.132	67.937	1.00	0.00	C
ATOM	5281	CD1	LEU	B	959	88.474	42.981	66.659	1.00	0.00	C
ATOM	5282	CD2	LEU	B	959	87.198	41.293	68.103	1.00	0.00	C
ATOM	5283	N	VAL	B	960	91.335	40.907	65.340	1.00	0.00	N
ATOM	5284	CA	VAL	B	960	91.749	41.464	64.091	1.00	0.00	C
ATOM	5285	C	VAL	B	960	91.210	40.564	63.039	1.00	0.00	C
ATOM	5286	O	VAL	B	960	90.675	41.018	62.030	1.00	0.00	O
ATOM	5287	CB	VAL	B	960	93.248	41.466	63.956	1.00	0.00	C
ATOM	5288	CG1	VAL	B	960	93.633	41.840	62.515	1.00	0.00	C
ATOM	5289	CG2	VAL	B	960	93.828	42.406	65.026	1.00	0.00	C
ATOM	5290	N	CYS	B	961	91.327	39.247	63.271	1.00	0.00	N
ATOM	5291	CA	CYS	B	961	90.836	38.299	62.324	1.00	0.00	C
ATOM	5292	C	CYS	B	961	89.361	38.488	62.211	1.00	0.00	C
ATOM	5293	O	CYS	B	961	88.790	38.408	61.123	1.00	0.00	O
ATOM	5294	CB	CYS	B	961	91.084	36.845	62.751	1.00	0.00	C
ATOM	5295	SG	CYS	B	961	90.454	35.653	61.531	1.00	0.00	S
ATOM	5296	N	ILE	B	962	88.701	38.768	63.348	1.00	0.00	N
ATOM	5297	CA	ILE	B	962	87.271	38.878	63.386	1.00	0.00	C
ATOM	5298	C	ILE	B	962	86.813	39.996	62.501	1.00	0.00	C
ATOM	5299	O	ILE	B	962	85.888	39.824	61.711	1.00	0.00	O
ATOM	5300	CB	ILE	B	962	86.756	39.205	64.757	1.00	0.00	C
ATOM	5301	CG1	ILE	B	962	87.187	38.138	65.776	1.00	0.00	C
ATOM	5302	CG2	ILE	B	962	85.232	39.371	64.654	1.00	0.00	C
ATOM	5303	CD1	ILE	B	962	86.643	36.746	65.474	1.00	0.00	C
ATOM	5304	N	TYR	B	963	87.470	41.168	62.588	1.00	0.00	N
ATOM	5305	CA	TYR	B	963	86.970	42.301	61.867	1.00	0.00	C
ATOM	5306	C	TYR	B	963	87.035	42.060	60.397	1.00	0.00	C
ATOM	5307	O	TYR	B	963	86.162	42.511	59.659	1.00	0.00	O
ATOM	5308	CB	TYR	B	963	87.639	43.656	62.191	1.00	0.00	C
ATOM	5309	CG	TYR	B	963	89.050	43.715	61.723	1.00	0.00	C
ATOM	5310	CD1	TYR	B	963	89.350	43.883	60.391	1.00	0.00	C
ATOM	5311	CD2	TYR	B	963	90.076	43.645	62.634	1.00	0.00	C
ATOM	5312	CE1	TYR	B	963	90.657	43.952	59.970	1.00	0.00	C
ATOM	5313	CE2	TYR	B	963	91.385	43.716	62.221	1.00	0.00	C
ATOM	5314	CZ	TYR	B	963	91.678	43.864	60.887	1.00	0.00	C
ATOM	5315	OH	TYR	B	963	93.022	43.937	60.467	1.00	0.00	O
ATOM	5316	N	MET	B	964	88.059	41.331	59.925	1.00	0.00	N
ATOM	5317	CA	MET	B	964	88.222	41.160	58.509	1.00	0.00	C

ATOM	5318	C	MET B 964	86.979	40.539	57.944	1.00	0.00	C
ATOM	5319	O	MET B 964	86.499	40.947	56.889	1.00	0.00	O
ATOM	5320	CB	MET B 964	89.373	40.206	58.151	1.00	0.00	C
ATOM	5321	CG	MET B 964	90.756	40.702	58.586	1.00	0.00	C
ATOM	5322	SD	MET B 964	92.104	39.532	58.238	1.00	0.00	S
ATOM	5323	CE	MET B 964	91.560	38.302	59.461	1.00	0.00	C
ATOM	5324	N	LEU B 965	86.412	39.534	58.629	1.00	0.00	N
ATOM	5325	CA	LEU B 965	85.255	38.900	58.070	1.00	0.00	C
ATOM	5326	C	LEU B 965	84.155	39.916	58.006	1.00	0.00	C
ATOM	5327	O	LEU B 965	83.467	40.033	56.993	1.00	0.00	O
ATOM	5328	CB	LEU B 965	84.789	37.694	58.914	1.00	0.00	C
ATOM	5329	CG	LEU B 965	83.720	36.770	58.276	1.00	0.00	C
ATOM	5330	CD1	LEU B 965	83.365	35.621	59.233	1.00	0.00	C
ATOM	5331	CD2	LEU B 965	82.464	37.522	57.803	1.00	0.00	C
ATOM	5332	N	SER B 966	83.972	40.699	59.085	1.00	0.00	N
ATOM	5333	CA	SER B 966	82.884	41.633	59.131	1.00	0.00	C
ATOM	5334	C	SER B 966	83.059	42.669	58.069	1.00	0.00	C
ATOM	5335	O	SER B 966	82.130	42.979	57.328	1.00	0.00	O
ATOM	5336	CB	SER B 966	82.772	42.363	60.479	1.00	0.00	C
ATOM	5337	OG	SER B 966	83.895	43.206	60.680	1.00	0.00	O
ATOM	5338	N	THR B 967	84.279	43.210	57.949	1.00	0.00	N
ATOM	5339	CA	THR B 967	84.516	44.257	57.007	1.00	0.00	C
ATOM	5340	C	THR B 967	84.260	43.751	55.629	1.00	0.00	C
ATOM	5341	O	THR B 967	83.638	44.430	54.814	1.00	0.00	O
ATOM	5342	CB	THR B 967	85.924	44.781	57.078	1.00	0.00	C
ATOM	5343	CG2	THR B 967	86.927	43.651	56.815	1.00	0.00	C
ATOM	5344	OG1	THR B 967	86.094	45.812	56.125	1.00	0.00	O
ATOM	5345	N	ASN B 968	84.697	42.516	55.339	1.00	0.00	N
ATOM	5346	CA	ASN B 968	84.563	42.031	54.002	1.00	0.00	C
ATOM	5347	C	ASN B 968	83.120	42.009	53.614	1.00	0.00	C
ATOM	5348	O	ASN B 968	82.769	42.403	52.503	1.00	0.00	O
ATOM	5349	CB	ASN B 968	85.122	40.610	53.817	1.00	0.00	C
ATOM	5350	CG	ASN B 968	85.085	40.303	52.326	1.00	0.00	C
ATOM	5351	ND2	ASN B 968	86.230	40.544	51.626	1.00	0.00	N
ATOM	5352	OD1	ASN B 968	84.064	39.876	51.792	1.00	0.00	O
ATOM	5353	N	ILE B 969	82.240	41.561	54.521	1.00	0.00	N
ATOM	5354	CA	ILE B 969	80.868	41.463	54.132	1.00	0.00	C
ATOM	5355	C	ILE B 969	80.371	42.852	53.878	1.00	0.00	C
ATOM	5356	O	ILE B 969	79.566	43.086	52.982	1.00	0.00	O
ATOM	5357	CB	ILE B 969	79.970	40.839	55.141	1.00	0.00	C
ATOM	5358	CG1	ILE B 969	80.594	39.588	55.774	1.00	0.00	C
ATOM	5359	CG2	ILE B 969	78.765	40.433	54.293	1.00	0.00	C
ATOM	5360	CD1	ILE B 969	79.835	39.103	57.008	1.00	0.00	C
ATOM	5361	N	LEU B 970	80.825	43.827	54.682	1.00	0.00	N

ATOM	5362	CA	LEU B 970	80.341	45.154	54.468	1.00	0.00	C
ATOM	5363	C	LEU B 970	80.703	45.589	53.088	1.00	0.00	C
ATOM	5364	O	LEU B 970	79.862	46.127	52.373	1.00	0.00	O
ATOM	5365	CB	LEU B 970	80.922	46.186	55.448	1.00	0.00	C
ATOM	5366	CG	LEU B 970	80.495	47.622	55.094	1.00	0.00	C
ATOM	5367	CD1	LEU B 970	78.967	47.764	55.054	1.00	0.00	C
ATOM	5368	CD2	LEU B 970	81.154	48.631	56.037	1.00	0.00	C
ATOM	5369	N	LEU B 971	81.950	45.345	52.650	1.00	0.00	N
ATOM	5370	CA	LEU B 971	82.299	45.786	51.333	1.00	0.00	C
ATOM	5371	C	LEU B 971	81.438	45.076	50.343	1.00	0.00	C
ATOM	5372	O	LEU B 971	80.904	45.702	49.430	1.00	0.00	O
ATOM	5373	CB	LEU B 971	83.769	45.534	50.950	1.00	0.00	C
ATOM	5374	CG	LEU B 971	84.763	46.484	51.644	1.00	0.00	C
ATOM	5375	CD1	LEU B 971	84.726	46.339	53.171	1.00	0.00	C
ATOM	5376	CD2	LEU B 971	86.178	46.320	51.068	1.00	0.00	C
ATOM	5377	N	VAL B 972	81.237	43.755	50.509	1.00	0.00	N
ATOM	5378	CA	VAL B 972	80.457	43.049	49.534	1.00	0.00	C
ATOM	5379	C	VAL B 972	79.094	43.646	49.547	1.00	0.00	C
ATOM	5380	O	VAL B 972	78.417	43.720	48.523	1.00	0.00	O
ATOM	5381	CB	VAL B 972	80.345	41.562	49.764	1.00	0.00	C
ATOM	5382	CG1	VAL B 972	79.419	41.269	50.954	1.00	0.00	C
ATOM	5383	CG2	VAL B 972	79.866	40.914	48.456	1.00	0.00	C
ATOM	5384	N	ASN B 973	78.657	44.104	50.729	1.00	0.00	N
ATOM	5385	CA	ASN B 973	77.365	44.703	50.847	1.00	0.00	C
ATOM	5386	C	ASN B 973	77.307	45.892	49.937	1.00	0.00	C
ATOM	5387	O	ASN B 973	76.347	46.048	49.182	1.00	0.00	O
ATOM	5388	CB	ASN B 973	77.097	45.205	52.274	1.00	0.00	C
ATOM	5389	CG	ASN B 973	75.687	45.776	52.342	1.00	0.00	C
ATOM	5390	ND2	ASN B 973	75.301	46.273	53.548	1.00	0.00	N
ATOM	5391	OD1	ASN B 973	74.956	45.791	51.354	1.00	0.00	O
ATOM	5392	N	LEU B 974	78.339	46.762	49.980	1.00	0.00	N
ATOM	5393	CA	LEU B 974	78.390	47.968	49.193	1.00	0.00	C
ATOM	5394	C	LEU B 974	78.535	47.693	47.726	1.00	0.00	C
ATOM	5395	O	LEU B 974	77.869	48.328	46.914	1.00	0.00	O
ATOM	5396	CB	LEU B 974	79.540	48.909	49.590	1.00	0.00	C
ATOM	5397	CG	LEU B 974	79.310	49.685	50.905	1.00	0.00	C
ATOM	5398	CD1	LEU B 974	79.111	48.745	52.099	1.00	0.00	C
ATOM	5399	CD2	LEU B 974	80.429	50.713	51.139	1.00	0.00	C
ATOM	5400	N	LEU B 975	79.385	46.721	47.347	1.00	0.00	N
ATOM	5401	CA	LEU B 975	79.717	46.492	45.967	1.00	0.00	C
ATOM	5402	C	LEU B 975	78.513	46.171	45.144	1.00	0.00	C
ATOM	5403	O	LEU B 975	78.440	46.578	43.985	1.00	0.00	O
ATOM	5404	CB	LEU B 975	80.724	45.347	45.740	1.00	0.00	C
ATOM	5405	CG	LEU B 975	82.210	45.724	45.916	1.00	0.00	C

ATOM	5406	CD1 LEU B 975	82.662	46.671	44.794	1.00	0.00	C
ATOM	5407	CD2 LEU B 975	82.526	46.277	47.309	1.00	0.00	C
ATOM	5408	N VAL B 976	77.529	45.450	45.705	1.00	0.00	N
ATOM	5409	CA VAL B 976	76.442	45.013	44.879	1.00	0.00	C
ATOM	5410	C VAL B 976	75.739	46.173	44.234	1.00	0.00	C
ATOM	5411	O VAL B 976	75.377	46.094	43.062	1.00	0.00	O
ATOM	5412	CB VAL B 976	75.406	44.212	45.601	1.00	0.00	C
ATOM	5413	CG1 VAL B 976	74.319	43.844	44.576	1.00	0.00	C
ATOM	5414	CG2 VAL B 976	76.082	42.994	46.252	1.00	0.00	C
ATOM	5415	N ALA B 977	75.512	47.286	44.959	1.00	0.00	N
ATOM	5416	CA ALA B 977	74.813	48.383	44.342	1.00	0.00	C
ATOM	5417	C ALA B 977	75.685	48.950	43.235	1.00	0.00	C
ATOM	5418	O ALA B 977	76.905	48.808	43.310	1.00	0.00	O
ATOM	5419	CB ALA B 977	74.479	49.520	45.321	1.00	0.00	C
ATOM	5420	N MET B 978	75.587	49.653	43.127	1.00	0.00	N
ATOM	5421	CA MET B 978	76.354	50.264	42.058	1.00	0.00	C
ATOM	5422	C MET B 978	77.134	51.346	42.714	1.00	0.00	C
ATOM	5423	O MET B 978	76.594	52.111	43.512	1.00	0.00	O
ATOM	5424	CB MET B 978	75.511	50.934	40.961	1.00	0.00	C
ATOM	5425	CG MET B 978	74.696	49.948	40.128	1.00	0.00	C
ATOM	5426	SD MET B 978	73.328	49.175	41.036	1.00	0.00	S
ATOM	5427	CE MET B 978	72.736	48.167	39.650	1.00	0.00	C
ATOM	5428	N PHE B 979	78.434	51.446	42.395	1.00	0.00	N
ATOM	5429	CA PHE B 979	79.189	52.432	43.100	1.00	0.00	C
ATOM	5430	C PHE B 979	79.675	53.430	42.117	1.00	0.00	C
ATOM	5431	O PHE B 979	80.066	53.088	41.001	1.00	0.00	O
ATOM	5432	CB PHE B 979	80.420	51.863	43.826	1.00	0.00	C
ATOM	5433	CG PHE B 979	80.936	52.925	44.726	1.00	0.00	C
ATOM	5434	CD1 PHE B 979	80.421	53.066	45.994	1.00	0.00	C
ATOM	5435	CD2 PHE B 979	81.925	53.786	44.309	1.00	0.00	C
ATOM	5436	CE1 PHE B 979	80.888	54.045	46.836	1.00	0.00	C
ATOM	5437	CE2 PHE B 979	82.394	54.771	45.148	1.00	0.00	C
ATOM	5438	CZ PHE B 979	81.877	54.902	46.415	1.00	0.00	C
ATOM	5439	N GLY B 980	79.640	54.715	42.518	1.00	0.00	N
ATOM	5440	CA GLY B 980	80.126	55.751	41.665	1.00	0.00	C
ATOM	5441	C GLY B 980	79.369	55.670	40.389	1.00	0.00	C
ATOM	5442	O GLY B 980	78.142	55.573	40.374	1.00	0.00	O
ATOM	5443	N TYR B 981	80.116	55.685	39.272	1.00	0.00	N
ATOM	5444	CA TYR B 981	79.518	55.635	37.979	1.00	0.00	C
ATOM	5445	C TYR B 981	79.997	54.366	37.362	1.00	0.00	C
ATOM	5446	O TYR B 981	81.162	53.998	37.503	1.00	0.00	O
ATOM	5447	CB TYR B 981	79.993	56.790	37.081	1.00	0.00	C
ATOM	5448	CG TYR B 981	79.187	56.797	35.832	1.00	0.00	C
ATOM	5449	CD1 TYR B 981	77.954	57.401	35.818	1.00	0.00	C

ATOM	5450	CD2 TYR B 981	79.664	56.222	34.678	1.00	0.00	C
ATOM	5451	CE1 TYR B 981	77.195	57.425	34.675	1.00	0.00	C
ATOM	5452	CE2 TYR B 981	78.910	56.243	33.527	1.00	0.00	C
ATOM	5453	CZ TYR B 981	77.675	56.845	33.526	1.00	0.00	C
ATOM	5454	OH TYR B 981	76.897	56.870	32.350	1.00	0.00	O
ATOM	5455	N THR B 982	79.093	53.641	36.679	1.00	0.00	N
ATOM	5456	CA THR B 982	79.492	52.411	36.070	1.00	0.00	C
ATOM	5457	C THR B 982	80.473	52.722	35.003	1.00	0.00	C
ATOM	5458	O THR B 982	80.235	53.576	34.150	1.00	0.00	O
ATOM	5459	CB THR B 982	78.362	51.666	35.424	1.00	0.00	C
ATOM	5460	CG2 THR B 982	78.913	50.454	34.662	1.00	0.00	C
ATOM	5461	OG1 THR B 982	77.424	51.257	36.403	1.00	0.00	O
ATOM	5462	N VAL B 983	81.618	52.021	35.034	1.00	0.00	N
ATOM	5463	CA VAL B 983	82.630	52.231	34.050	1.00	0.00	C
ATOM	5464	C VAL B 983	83.109	50.886	33.622	1.00	0.00	C
ATOM	5465	O VAL B 983	82.973	49.904	34.351	1.00	0.00	O
ATOM	5466	CB VAL B 983	83.824	52.967	34.577	1.00	0.00	C
ATOM	5467	CG1 VAL B 983	83.384	54.383	34.991	1.00	0.00	C
ATOM	5468	CG2 VAL B 983	84.431	52.143	35.720	1.00	0.00	C
ATOM	5469	N GLY B 984	83.664	50.813	32.398	1.00	0.00	N
ATOM	5470	CA GLY B 984	84.192	49.581	31.897	1.00	0.00	C
ATOM	5471	C GLY B 984	83.123	48.919	31.096	1.00	0.00	C
ATOM	5472	O GLY B 984	81.935	49.057	31.382	1.00	0.00	O
ATOM	5473	N THR B 985	83.540	48.169	30.059	1.00	0.00	N
ATOM	5474	CA THR B 985	82.615	47.463	29.225	1.00	0.00	C
ATOM	5475	C THR B 985	81.973	46.404	30.054	1.00	0.00	C
ATOM	5476	O THR B 985	80.766	46.175	29.964	1.00	0.00	O
ATOM	5477	CB THR B 985	83.272	46.769	28.071	1.00	0.00	C
ATOM	5478	CG2 THR B 985	82.195	46.009	27.282	1.00	0.00	C
ATOM	5479	OG1 THR B 985	83.925	47.717	27.238	1.00	0.00	O
ATOM	5480	N VAL B 986	82.775	45.744	30.909	1.00	0.00	N
ATOM	5481	CA VAL B 986	82.261	44.669	31.699	1.00	0.00	C
ATOM	5482	C VAL B 986	81.149	45.202	32.533	1.00	0.00	C
ATOM	5483	O VAL B 986	80.063	44.625	32.580	1.00	0.00	O
ATOM	5484	CB VAL B 986	83.294	44.103	32.634	1.00	0.00	C
ATOM	5485	CG1 VAL B 986	82.625	43.044	33.525	1.00	0.00	C
ATOM	5486	CG2 VAL B 986	84.475	43.575	31.803	1.00	0.00	C
ATOM	5487	N GLN B 987	81.379	46.345	33.201	1.00	0.00	N
ATOM	5488	CA GLN B 987	80.338	46.854	34.038	1.00	0.00	C
ATOM	5489	C GLN B 987	79.335	47.494	33.140	1.00	0.00	C
ATOM	5490	O GLN B 987	79.683	48.271	32.250	1.00	0.00	O
ATOM	5491	CB GLN B 987	80.848	47.883	35.061	1.00	0.00	C
ATOM	5492	CG GLN B 987	79.887	48.153	36.219	1.00	0.00	C
ATOM	5493	CD GLN B 987	80.600	49.093	37.181	1.00	0.00	C

ATOM	5494	NE2	GLN	B	987	81.914	48.829	37.417	1.00	0.00	N
ATOM	5495	OE1	GLN	B	987	80.006	50.028	37.715	1.00	0.00	O
ATOM	5496	N	GLU	B	988	78.045	47.161	33.334	1.00	0.00	N
ATOM	5497	CA	GLU	B	988	77.041	47.729	32.489	1.00	0.00	C
ATOM	5498	C	GLU	B	988	75.878	48.086	33.354	1.00	0.00	C
ATOM	5499	O	GLU	B	988	75.557	47.376	34.306	1.00	0.00	O
ATOM	5500	CB	GLU	B	988	76.539	46.740	31.420	1.00	0.00	C
ATOM	5501	CG	GLU	B	988	75.592	47.348	30.384	1.00	0.00	C
ATOM	5502	CD	GLU	B	988	74.194	47.404	30.977	1.00	0.00	C
ATOM	5503	OE1	GLU	B	988	73.944	46.699	31.993	1.00	0.00	O
ATOM	5504	OE2	GLU	B	988	73.354	48.154	30.417	1.00	0.00	O
ATOM	5505	N	ASN	B	989	75.221	49.225	33.057	1.00	0.00	N
ATOM	5506	CA	ASN	B	989	74.067	49.587	33.821	1.00	0.00	C
ATOM	5507	C	ASN	B	989	72.931	49.681	32.859	1.00	0.00	C
ATOM	5508	O	ASN	B	989	73.056	50.280	31.792	1.00	0.00	O
ATOM	5509	CB	ASN	B	989	74.181	50.943	34.537	1.00	0.00	C
ATOM	5510	CG	ASN	B	989	73.037	51.038	35.539	1.00	0.00	C
ATOM	5511	ND2	ASN	B	989	73.367	51.442	36.794	1.00	0.00	N
ATOM	5512	OD1	ASN	B	989	71.884	50.753	35.219	1.00	0.00	O
ATOM	5513	N	ASN	B	990	71.783	49.072	33.202	1.00	0.00	N
ATOM	5514	CA	ASN	B	990	70.694	49.138	32.278	1.00	0.00	C
ATOM	5515	C	ASN	B	990	69.678	50.086	32.821	1.00	0.00	C
ATOM	5516	O	ASN	B	990	69.140	49.888	33.907	1.00	0.00	O
ATOM	5517	CB	ASN	B	990	69.958	47.802	32.080	1.00	0.00	C
ATOM	5518	CG	ASN	B	990	70.866	46.802	31.380	1.00	0.00	C
ATOM	5519	ND2	ASN	B	990	71.009	46.949	30.034	1.00	0.00	N
ATOM	5520	OD1	ASN	B	990	71.421	45.903	32.011	1.00	0.00	O
ATOM	5521	N	ASP	B	991	69.413	51.170	32.070	1.00	0.00	N
ATOM	5522	CA	ASP	B	991	68.390	52.085	32.468	1.00	0.00	C
ATOM	5523	C	ASP	B	991	67.092	51.362	32.318	1.00	0.00	C
ATOM	5524	O	ASP	B	991	66.160	51.554	33.096	1.00	0.00	O
ATOM	5525	CB	ASP	B	991	68.342	53.363	31.614	1.00	0.00	C
ATOM	5526	CG	ASP	B	991	68.042	52.984	30.171	1.00	0.00	C
ATOM	5527	OD1	ASP	B	991	68.550	51.925	29.713	1.00	0.00	O
ATOM	5528	OD2	ASP	B	991	67.298	53.754	29.507	1.00	0.00	O
ATOM	5529	N	GLN	B	992	67.011	50.500	31.285	1.00	0.00	N
ATOM	5530	CA	GLN	B	992	65.805	49.776	31.019	1.00	0.00	C
ATOM	5531	C	GLN	B	992	65.507	48.816	32.134	1.00	0.00	C
ATOM	5532	O	GLN	B	992	64.351	48.684	32.534	1.00	0.00	O
ATOM	5533	CB	GLN	B	992	65.810	49.042	29.663	1.00	0.00	C
ATOM	5534	CG	GLN	B	992	66.882	47.970	29.470	1.00	0.00	C
ATOM	5535	CD	GLN	B	992	66.709	47.422	28.057	1.00	0.00	C
ATOM	5536	NE2	GLN	B	992	66.830	48.316	27.037	1.00	0.00	N
ATOM	5537	OE1	GLN	B	992	66.469	46.228	27.863	1.00	0.00	O

ATOM	5538	N	VAL B 993	66.534	48.147	32.701	1.00	0.00	N
ATOM	5539	CA	VAL B 993	66.285	47.200	33.755	1.00	0.00	C
ATOM	5540	C	VAL B 993	65.614	47.930	34.857	1.00	0.00	C
ATOM	5541	O	VAL B 993	64.645	47.448	35.446	1.00	0.00	O
ATOM	5542	CB	VAL B 993	67.526	46.620	34.379	1.00	0.00	C
ATOM	5543	CG1	VAL B 993	67.108	45.827	35.629	1.00	0.00	C
ATOM	5544	CG2	VAL B 993	68.274	45.760	33.350	1.00	0.00	C
ATOM	5545	N	TRP B 994	66.113	49.131	35.173	1.00	0.00	N
ATOM	5546	CA	TRP B 994	65.472	49.872	36.206	1.00	0.00	C
ATOM	5547	C	TRP B 994	64.055	50.090	35.864	1.00	0.00	C
ATOM	5548	O	TRP B 994	63.184	49.866	36.702	1.00	0.00	O
ATOM	5549	CB	TRP B 994	65.910	51.308	36.319	1.00	0.00	C
ATOM	5550	CG	TRP B 994	64.739	52.160	36.758	1.00	0.00	C
ATOM	5551	CD1	TRP B 994	63.988	52.167	37.908	1.00	0.00	C
ATOM	5552	CD2	TRP B 994	64.346	53.337	36.027	1.00	0.00	C
ATOM	5553	CE2	TRP B 994	63.387	54.004	36.788	1.00	0.00	C
ATOM	5554	CE3	TRP B 994	64.783	53.839	34.835	1.00	0.00	C
ATOM	5555	NE1	TRP B 994	63.176	53.276	37.935	1.00	0.00	N
ATOM	5556	CZ2	TRP B 994	62.847	55.185	36.364	1.00	0.00	C
ATOM	5557	CZ3	TRP B 994	64.213	55.012	34.399	1.00	0.00	C
ATOM	5558	CH2	TRP B 994	63.263	55.674	35.151	1.00	0.00	C
ATOM	5559	N	LYS B 995	63.809	50.562	34.631	1.00	0.00	N
ATOM	5560	CA	LYS B 995	62.489	50.984	34.279	1.00	0.00	C
ATOM	5561	C	LYS B 995	61.567	49.845	34.496	1.00	0.00	C
ATOM	5562	O	LYS B 995	60.438	50.046	34.941	1.00	0.00	O
ATOM	5563	CB	LYS B 995	62.327	51.392	32.804	1.00	0.00	C
ATOM	5564	CG	LYS B 995	62.620	52.861	32.492	1.00	0.00	C
ATOM	5565	CD	LYS B 995	61.614	53.849	33.094	1.00	0.00	C
ATOM	5566	CE	LYS B 995	61.830	55.284	32.604	1.00	0.00	C
ATOM	5567	NZ	LYS B 995	60.770	56.174	33.125	1.00	0.00	N1+
ATOM	5568	N	PHE B 996	62.027	48.622	34.197	1.00	0.00	N
ATOM	5569	CA	PHE B 996	61.181	47.489	34.372	1.00	0.00	C
ATOM	5570	C	PHE B 996	60.783	47.420	35.811	1.00	0.00	C
ATOM	5571	O	PHE B 996	59.602	47.296	36.125	1.00	0.00	O
ATOM	5572	CB	PHE B 996	61.885	46.161	34.027	1.00	0.00	C
ATOM	5573	CG	PHE B 996	60.909	45.053	34.248	1.00	0.00	C
ATOM	5574	CD1	PHE B 996	60.036	44.680	33.253	1.00	0.00	C
ATOM	5575	CD2	PHE B 996	60.864	44.391	35.452	1.00	0.00	C
ATOM	5576	CE1	PHE B 996	59.134	43.662	33.453	1.00	0.00	C
ATOM	5577	CE2	PHE B 996	59.965	43.372	35.657	1.00	0.00	C
ATOM	5578	CZ	PHE B 996	59.097	43.003	34.657	1.00	0.00	C
ATOM	5579	N	GLN B 997	61.761	47.519	36.734	1.00	0.00	N
ATOM	5580	CA	GLN B 997	61.441	47.415	38.129	1.00	0.00	C
ATOM	5581	C	GLN B 997	60.576	48.558	38.546	1.00	0.00	C

ATOM	5582	O	GLN B 997	59.656	48.394	39.342	1.00	0.00	O
ATOM	5583	CB	GLN B 997	62.653	47.405	39.078	1.00	0.00	C
ATOM	5584	CG	GLN B 997	62.212	47.346	40.546	1.00	0.00	C
ATOM	5585	CD	GLN B 997	63.403	47.004	41.419	1.00	0.00	C
ATOM	5586	NE2	GLN B 997	64.380	46.255	40.845	1.00	0.00	N
ATOM	5587	OE1	GLN B 997	63.455	47.364	42.595	1.00	0.00	O
ATOM	5588	N	ARG B 998	60.860	49.757	38.023	1.00	0.00	N
ATOM	5589	CA	ARG B 998	60.121	50.930	38.383	1.00	0.00	C
ATOM	5590	C	ARG B 998	58.684	50.749	37.995	1.00	0.00	C
ATOM	5591	O	ARG B 998	57.781	51.034	38.777	1.00	0.00	O
ATOM	5592	CB	ARG B 998	60.653	52.145	37.613	1.00	0.00	C
ATOM	5593	CG	ARG B 998	59.748	53.368	37.649	1.00	0.00	C
ATOM	5594	CD	ARG B 998	58.873	53.511	36.404	1.00	0.00	C
ATOM	5595	NE	ARG B 998	58.065	54.749	36.590	1.00	0.00	N
ATOM	5596	CZ	ARG B 998	58.626	55.956	36.292	1.00	0.00	C
ATOM	5597	NH1	ARG B 998	59.900	56.007	35.809	1.00	0.00	N
ATOM	5598	NH2	ARG B 998	57.926	57.110	36.494	1.00	0.00	N
ATOM	5599	N	TYR B 999	58.460	50.255	36.763	1.00	0.00	N
ATOM	5600	CA	TYR B 999	57.164	50.044	36.190	1.00	0.00	C
ATOM	5601	C	TYR B 999	56.447	49.000	36.980	1.00	0.00	C
ATOM	5602	O	TYR B 999	55.258	49.123	37.265	1.00	0.00	O
ATOM	5603	CB	TYR B 999	57.278	49.550	34.734	1.00	0.00	C
ATOM	5604	CG	TYR B 999	55.926	49.256	34.189	1.00	0.00	C
ATOM	5605	CD1	TYR B 999	55.062	50.284	33.913	1.00	0.00	C
ATOM	5606	CD2	TYR B 999	55.522	47.969	33.921	1.00	0.00	C
ATOM	5607	CE1	TYR B 999	53.812	50.051	33.399	1.00	0.00	C
ATOM	5608	CE2	TYR B 999	54.272	47.724	33.402	1.00	0.00	C
ATOM	5609	CZ	TYR B 999	53.412	48.764	33.145	1.00	0.00	C
ATOM	5610	OH	TYR B 999	52.129	48.529	32.616	1.00	0.00	O
ATOM	5611	N	PHE B1000	57.166	47.933	37.355	1.00	0.00	N
ATOM	5612	CA	PHE B1000	56.571	46.847	38.070	1.00	0.00	C
ATOM	5613	C	PHE B1000	56.043	47.373	39.363	1.00	0.00	C
ATOM	5614	O	PHE B1000	54.908	47.081	39.738	1.00	0.00	O
ATOM	5615	CB	PHE B1000	57.595	45.741	38.387	1.00	0.00	C
ATOM	5616	CG	PHE B1000	56.906	44.650	39.127	1.00	0.00	C
ATOM	5617	CD1	PHE B1000	56.171	43.701	38.450	1.00	0.00	C
ATOM	5618	CD2	PHE B1000	57.002	44.570	40.497	1.00	0.00	C
ATOM	5619	CE1	PHE B1000	55.540	42.691	39.134	1.00	0.00	C
ATOM	5620	CE2	PHE B1000	56.370	43.559	41.184	1.00	0.00	C
ATOM	5621	CZ	PHE B1000	55.638	42.618	40.502	1.00	0.00	C
ATOM	5622	N	LEU B1001	56.851	48.182	40.072	1.00	0.00	N
ATOM	5623	CA	LEU B1001	56.447	48.688	41.349	1.00	0.00	C
ATOM	5624	C	LEU B1001	55.249	49.578	41.209	1.00	0.00	C
ATOM	5625	O	LEU B1001	54.308	49.474	41.996	1.00	0.00	O

ATOM	5626	CB	LEU	B1001	57.535	49.502	42.067	1.00	0.00	C
ATOM	5627	CG	LEU	B1001	58.738	48.656	42.513	1.00	0.00	C
ATOM	5628	CD1	LEU	B1001	59.677	49.479	43.403	1.00	0.00	C
ATOM	5629	CD2	LEU	B1001	58.289	47.348	43.180	1.00	0.00	C
ATOM	5630	N	VAL	B1002	55.240	50.471	40.204	1.00	0.00	N
ATOM	5631	CA	VAL	B1002	54.143	51.387	40.084	1.00	0.00	C
ATOM	5632	C	VAL	B1002	52.894	50.617	39.796	1.00	0.00	C
ATOM	5633	O	VAL	B1002	51.835	50.925	40.338	1.00	0.00	O
ATOM	5634	CB	VAL	B1002	54.326	52.409	38.996	1.00	0.00	C
ATOM	5635	CG1	VAL	B1002	55.567	53.259	39.330	1.00	0.00	C
ATOM	5636	CG2	VAL	B1002	54.394	51.698	37.635	1.00	0.00	C
ATOM	5637	N	GLN	B1003	52.982	49.588	38.928	1.00	0.00	N
ATOM	5638	CA	GLN	B1003	51.814	48.829	38.585	1.00	0.00	C
ATOM	5639	C	GLN	B1003	51.299	48.142	39.807	1.00	0.00	C
ATOM	5640	O	GLN	B1003	50.097	48.115	40.051	1.00	0.00	O
ATOM	5641	CB	GLN	B1003	52.066	47.681	37.602	1.00	0.00	C
ATOM	5642	CG	GLN	B1003	52.380	48.090	36.173	1.00	0.00	C
ATOM	5643	CD	GLN	B1003	52.292	46.798	35.385	1.00	0.00	C
ATOM	5644	NE2	GLN	B1003	53.365	45.966	35.470	1.00	0.00	N
ATOM	5645	OE1	GLN	B1003	51.281	46.521	34.745	1.00	0.00	O
ATOM	5646	N	GLU	B1004	52.212	47.567	40.611	1.00	0.00	N
ATOM	5647	CA	GLU	B1004	51.803	46.830	41.771	1.00	0.00	C
ATOM	5648	C	GLU	B1004	51.103	47.789	42.679	1.00	0.00	C
ATOM	5649	O	GLU	B1004	50.095	47.465	43.303	1.00	0.00	O
ATOM	5650	CB	GLU	B1004	53.004	46.235	42.529	1.00	0.00	C
ATOM	5651	CG	GLU	B1004	52.623	45.428	43.769	1.00	0.00	C
ATOM	5652	CD	GLU	B1004	53.915	44.915	44.392	1.00	0.00	C
ATOM	5653	OE1	GLU	B1004	54.815	44.495	43.618	1.00	0.00	O
ATOM	5654	OE2	GLU	B1004	54.023	44.943	45.647	1.00	0.00	O
ATOM	5655	N	TYR	B1005	51.646	49.014	42.741	1.00	0.00	N
ATOM	5656	CA	TYR	B1005	51.159	50.115	43.515	1.00	0.00	C
ATOM	5657	C	TYR	B1005	49.776	50.450	43.047	1.00	0.00	C
ATOM	5658	O	TYR	B1005	48.859	50.592	43.851	1.00	0.00	O
ATOM	5659	CB	TYR	B1005	52.102	51.314	43.259	1.00	0.00	C
ATOM	5660	CG	TYR	B1005	51.518	52.650	43.574	1.00	0.00	C
ATOM	5661	CD1	TYR	B1005	50.651	53.243	42.684	1.00	0.00	C
ATOM	5662	CD2	TYR	B1005	51.869	53.337	44.713	1.00	0.00	C
ATOM	5663	CE1	TYR	B1005	50.115	54.482	42.929	1.00	0.00	C
ATOM	5664	CE2	TYR	B1005	51.335	54.579	44.966	1.00	0.00	C
ATOM	5665	CZ	TYR	B1005	50.459	55.153	44.074	1.00	0.00	C
ATOM	5666	OH	TYR	B1005	49.916	56.429	44.337	1.00	0.00	O
ATOM	5667	N	CYS	B1006	49.597	50.554	41.719	1.00	0.00	N
ATOM	5668	CA	CYS	B1006	48.324	50.921	41.175	1.00	0.00	C
ATOM	5669	C	CYS	B1006	47.323	49.861	41.506	1.00	0.00	C

ATOM	5670	O	CYS B1006	46.203	50.159	41.916	1.00	0.00	O
ATOM	5671	CB	CYS B1006	48.354	51.081	39.646	1.00	0.00	C
ATOM	5672	SG	CYS B1006	49.437	52.441	39.112	1.00	0.00	S
ATOM	5673	N	SER B1007	47.707	48.583	41.340	1.00	0.00	N
ATOM	5674	CA	SER B1007	46.770	47.527	41.577	1.00	0.00	C
ATOM	5675	C	SER B1007	46.352	47.556	43.011	1.00	0.00	C
ATOM	5676	O	SER B1007	45.160	47.548	43.317	1.00	0.00	O
ATOM	5677	CB	SER B1007	47.367	46.135	41.296	1.00	0.00	C
ATOM	5678	OG	SER B1007	46.400	45.126	41.548	1.00	0.00	O
ATOM	5679	N	ARG B1008	47.330	47.600	43.934	1.00	0.00	N
ATOM	5680	CA	ARG B1008	47.013	47.546	45.333	1.00	0.00	C
ATOM	5681	C	ARG B1008	46.224	48.750	45.722	1.00	0.00	C
ATOM	5682	O	ARG B1008	45.204	48.645	46.400	1.00	0.00	O
ATOM	5683	CB	ARG B1008	48.264	47.501	46.226	1.00	0.00	C
ATOM	5684	CG	ARG B1008	47.949	47.443	47.723	1.00	0.00	C
ATOM	5685	CD	ARG B1008	49.199	47.338	48.601	1.00	0.00	C
ATOM	5686	NE	ARG B1008	48.753	47.345	50.024	1.00	0.00	N
ATOM	5687	CZ	ARG B1008	48.774	48.508	50.736	1.00	0.00	C
ATOM	5688	NH1	ARG B1008	49.248	49.651	50.164	1.00	0.00	N
ATOM	5689	NH2	ARG B1008	48.327	48.528	52.028	1.00	0.00	N
ATOM	5690	N	LEU B1009	46.675	49.935	45.276	1.00	0.00	N
ATOM	5691	CA	LEU B1009	46.039	51.166	45.637	1.00	0.00	C
ATOM	5692	C	LEU B1009	44.681	51.258	45.027	1.00	0.00	C
ATOM	5693	O	LEU B1009	43.829	51.987	45.535	1.00	0.00	O
ATOM	5694	CB	LEU B1009	46.840	52.430	45.295	1.00	0.00	C
ATOM	5695	CG	LEU B1009	48.085	52.575	46.186	1.00	0.00	C
ATOM	5696	CD1	LEU B1009	48.674	53.986	46.092	1.00	0.00	C
ATOM	5697	CD2	LEU B1009	47.789	52.151	47.634	1.00	0.00	C
ATOM	5698	N	ASN B1010	44.459	50.591	43.880	1.00	0.00	N
ATOM	5699	CA	ASN B1010	43.156	50.690	43.296	1.00	0.00	C
ATOM	5700	C	ASN B1010	42.249	49.653	43.947	1.00	0.00	C
ATOM	5701	O	ASN B1010	42.691	49.036	44.952	1.00	0.00	O
ATOM	5702	CB	ASN B1010	43.136	50.458	41.773	1.00	0.00	C
ATOM	5703	CG	ASN B1010	41.851	51.079	41.235	1.00	0.00	C
ATOM	5704	ND2	ASN B1010	41.704	51.103	39.883	1.00	0.00	N
ATOM	5705	OD1	ASN B1010	41.003	51.544	41.996	1.00	0.00	O
ATOM	5706	OXT	ASN B1010	41.100	49.472	43.461	1.00	0.00	O1-
HETATM	5707	CA	CA1 B1011	51.926	44.589	52.357	1.00	0.00	CA2+
TER	5708	CA1	B1011						
ATOM	5709	N	GLN C 671	84.016	32.890	26.798	1.00	0.00	N1+
ATOM	5710	CA	GLN C 671	83.040	32.332	25.899	1.00	0.00	C
ATOM	5711	C	GLN C 671	82.088	31.441	26.636	1.00	0.00	C
ATOM	5712	O	GLN C 671	82.406	30.808	27.640	1.00	0.00	O
ATOM	5713	CB	GLN C 671	83.690	31.491	24.788	1.00	0.00	C

ATOM	5714	CG	GLN	C	671	84.429	30.271	25.339	1.00	0.00	C
ATOM	5715	CD	GLN	C	671	85.135	29.563	24.190	1.00	0.00	C
ATOM	5716	NE2	GLN	C	671	85.979	28.553	24.531	1.00	0.00	N
ATOM	5717	OE1	GLN	C	671	84.947	29.904	23.023	1.00	0.00	O
ATOM	5718	N	PRO	C	672	80.879	31.440	26.131	1.00	0.00	N
ATOM	5719	CA	PRO	C	672	79.829	30.643	26.705	1.00	0.00	C
ATOM	5720	C	PRO	C	672	80.008	29.165	26.539	1.00	0.00	C
ATOM	5721	O	PRO	C	672	79.416	28.420	27.318	1.00	0.00	O
ATOM	5722	CB	PRO	C	672	78.531	31.166	26.095	1.00	0.00	C
ATOM	5723	CG	PRO	C	672	78.846	32.637	25.780	1.00	0.00	C
ATOM	5724	CD	PRO	C	672	80.360	32.649	25.510	1.00	0.00	C
ATOM	5725	N	GLY	C	673	80.775	28.708	25.529	1.00	0.00	N
ATOM	5726	CA	GLY	C	673	80.869	27.291	25.328	1.00	0.00	C
ATOM	5727	C	GLY	C	673	81.533	26.638	26.500	1.00	0.00	C
ATOM	5728	O	GLY	C	673	81.012	25.680	27.069	1.00	0.00	O
ATOM	5729	N	VAL	C	674	82.700	27.164	26.907	1.00	0.00	N
ATOM	5730	CA	VAL	C	674	83.430	26.593	27.995	1.00	0.00	C
ATOM	5731	C	VAL	C	674	82.625	26.769	29.235	1.00	0.00	C
ATOM	5732	O	VAL	C	674	82.592	25.889	30.092	1.00	0.00	O
ATOM	5733	CB	VAL	C	674	84.760	27.256	28.209	1.00	0.00	C
ATOM	5734	CG1	VAL	C	674	84.523	28.746	28.500	1.00	0.00	C
ATOM	5735	CG2	VAL	C	674	85.501	26.514	29.338	1.00	0.00	C
ATOM	5736	N	GLN	C	675	81.948	27.924	29.361	1.00	0.00	N
ATOM	5737	CA	GLN	C	675	81.184	28.204	30.539	1.00	0.00	C
ATOM	5738	C	GLN	C	675	80.088	27.190	30.648	1.00	0.00	C
ATOM	5739	O	GLN	C	675	79.790	26.709	31.739	1.00	0.00	O
ATOM	5740	CB	GLN	C	675	80.538	29.598	30.521	1.00	0.00	C
ATOM	5741	CG	GLN	C	675	81.563	30.737	30.543	1.00	0.00	C
ATOM	5742	CD	GLN	C	675	82.274	30.709	31.886	1.00	0.00	C
ATOM	5743	NE2	GLN	C	675	83.494	31.310	31.940	1.00	0.00	N
ATOM	5744	OE1	GLN	C	675	81.764	30.167	32.865	1.00	0.00	O
ATOM	5745	N	ASN	C	676	79.465	26.835	29.511	1.00	0.00	N
ATOM	5746	CA	ASN	C	676	78.401	25.873	29.523	1.00	0.00	C
ATOM	5747	C	ASN	C	676	78.991	24.593	30.018	1.00	0.00	C
ATOM	5748	O	ASN	C	676	78.355	23.839	30.751	1.00	0.00	O
ATOM	5749	CB	ASN	C	676	77.810	25.621	28.125	1.00	0.00	C
ATOM	5750	CG	ASN	C	676	76.565	24.756	28.284	1.00	0.00	C
ATOM	5751	ND2	ASN	C	676	75.429	25.219	27.700	1.00	0.00	N
ATOM	5752	OD1	ASN	C	676	76.605	23.702	28.915	1.00	0.00	O
ATOM	5753	N	PHE	C	677	80.249	24.340	29.627	1.00	0.00	N
ATOM	5754	CA	PHE	C	677	80.970	23.166	30.014	1.00	0.00	C
ATOM	5755	C	PHE	C	677	81.088	23.167	31.504	1.00	0.00	C
ATOM	5756	O	PHE	C	677	80.929	22.128	32.141	1.00	0.00	O
ATOM	5757	CB	PHE	C	677	82.394	23.148	29.431	1.00	0.00	C

ATOM	5758	CG	PHE	C	677	83.099	21.919	29.893	1.00	0.00	C
ATOM	5759	CD1	PHE	C	677	82.946	20.725	29.224	1.00	0.00	C
ATOM	5760	CD2	PHE	C	677	83.920	21.965	30.995	1.00	0.00	C
ATOM	5761	CE1	PHE	C	677	83.601	19.596	29.655	1.00	0.00	C
ATOM	5762	CE2	PHE	C	677	84.576	20.840	31.430	1.00	0.00	C
ATOM	5763	CZ	PHE	C	677	84.416	19.652	30.760	1.00	0.00	C
ATOM	5764	N	LEU	C	678	81.362	24.342	32.109	1.00	0.00	N
ATOM	5765	CA	LEU	C	678	81.508	24.373	33.540	1.00	0.00	C
ATOM	5766	C	LEU	C	678	80.237	23.883	34.139	1.00	0.00	C
ATOM	5767	O	LEU	C	678	80.239	23.045	35.040	1.00	0.00	O
ATOM	5768	CB	LEU	C	678	81.614	25.773	34.166	1.00	0.00	C
ATOM	5769	CG	LEU	C	678	82.914	26.567	33.987	1.00	0.00	C
ATOM	5770	CD1	LEU	C	678	83.149	26.992	32.534	1.00	0.00	C
ATOM	5771	CD2	LEU	C	678	82.918	27.752	34.969	1.00	0.00	C
ATOM	5772	N	SER	C	679	79.114	24.410	33.632	1.00	0.00	N
ATOM	5773	CA	SER	C	679	77.823	24.116	34.176	1.00	0.00	C
ATOM	5774	C	SER	C	679	77.559	22.650	34.059	1.00	0.00	C
ATOM	5775	O	SER	C	679	77.029	22.034	34.983	1.00	0.00	O
ATOM	5776	CB	SER	C	679	76.698	24.846	33.422	1.00	0.00	C
ATOM	5777	OG	SER	C	679	75.439	24.520	33.987	1.00	0.00	O
ATOM	5778	N	LYS	C	680	77.932	22.045	32.920	1.00	0.00	N
ATOM	5779	CA	LYS	C	680	77.662	20.652	32.739	1.00	0.00	C
ATOM	5780	C	LYS	C	680	78.416	19.898	33.782	1.00	0.00	C
ATOM	5781	O	LYS	C	680	77.890	18.964	34.383	1.00	0.00	O
ATOM	5782	CB	LYS	C	680	78.105	20.149	31.352	1.00	0.00	C
ATOM	5783	CG	LYS	C	680	77.777	18.679	31.043	1.00	0.00	C
ATOM	5784	CD	LYS	C	680	78.539	17.649	31.883	1.00	0.00	C
ATOM	5785	CE	LYS	C	680	78.227	16.196	31.513	1.00	0.00	C
ATOM	5786	NZ	LYS	C	680	79.042	15.276	32.334	1.00	0.00	N1+
ATOM	5787	N	GLN	C	681	79.680	20.290	34.021	1.00	0.00	N
ATOM	5788	CA	GLN	C	681	80.503	19.607	34.974	1.00	0.00	C
ATOM	5789	C	GLN	C	681	79.954	19.806	36.355	1.00	0.00	C
ATOM	5790	O	GLN	C	681	79.947	18.882	37.164	1.00	0.00	O
ATOM	5791	CB	GLN	C	681	81.959	20.107	34.951	1.00	0.00	C
ATOM	5792	CG	GLN	C	681	82.872	19.402	35.957	1.00	0.00	C
ATOM	5793	CD	GLN	C	681	84.300	19.857	35.686	1.00	0.00	C
ATOM	5794	NE2	GLN	C	681	84.837	20.748	36.560	1.00	0.00	N
ATOM	5795	OE1	GLN	C	681	84.922	19.432	34.715	1.00	0.00	O
ATOM	5796	N	TRP	C	682	79.476	21.029	36.645	1.00	0.00	N
ATOM	5797	CA	TRP	C	682	78.992	21.397	37.946	1.00	0.00	C
ATOM	5798	C	TRP	C	682	77.815	20.548	38.325	1.00	0.00	C
ATOM	5799	O	TRP	C	682	77.777	19.971	39.410	1.00	0.00	O
ATOM	5800	CB	TRP	C	682	78.522	22.861	37.965	1.00	0.00	C
ATOM	5801	CG	TRP	C	682	78.009	23.359	39.294	1.00	0.00	C

ATOM	5802	CD1 TRP C 682	76.745	23.311	39.806	1.00	0.00	C
ATOM	5803	CD2 TRP C 682	78.818	24.037	40.264	1.00	0.00	C
ATOM	5804	CE2 TRP C 682	77.988	24.365	41.336	1.00	0.00	C
ATOM	5805	CE3 TRP C 682	80.142	24.366	40.264	1.00	0.00	C
ATOM	5806	NE1 TRP C 682	76.717	23.912	41.043	1.00	0.00	N
ATOM	5807	CZ2 TRP C 682	78.471	25.030	42.428	1.00	0.00	C
ATOM	5808	CZ3 TRP C 682	80.629	25.032	41.367	1.00	0.00	C
ATOM	5809	CH2 TRP C 682	79.808	25.358	42.429	1.00	0.00	C
ATOM	5810	N TYR C 683	76.816	20.452	37.425	1.00	0.00	N
ATOM	5811	CA TYR C 683	75.615	19.700	37.668	1.00	0.00	C
ATOM	5812	C TYR C 683	75.939	18.251	37.768	1.00	0.00	C
ATOM	5813	O TYR C 683	75.299	17.518	38.523	1.00	0.00	O
ATOM	5814	CB TYR C 683	74.547	19.843	36.571	1.00	0.00	C
ATOM	5815	CG TYR C 683	73.949	21.202	36.664	1.00	0.00	C
ATOM	5816	CD1 TYR C 683	73.121	21.525	37.714	1.00	0.00	C
ATOM	5817	CD2 TYR C 683	74.193	22.143	35.693	1.00	0.00	C
ATOM	5818	CE1 TYR C 683	72.556	22.774	37.803	1.00	0.00	C
ATOM	5819	CE2 TYR C 683	73.630	23.394	35.778	1.00	0.00	C
ATOM	5820	CZ TYR C 683	72.813	23.711	36.834	1.00	0.00	C
ATOM	5821	OH TYR C 683	72.235	24.997	36.915	1.00	0.00	O
ATOM	5822	N GLY C 684	76.914	17.780	36.971	1.00	0.00	N
ATOM	5823	CA GLY C 684	77.232	16.388	37.014	1.00	0.00	C
ATOM	5824	C GLY C 684	76.223	15.679	36.175	1.00	0.00	C
ATOM	5825	O GLY C 684	75.778	16.193	35.148	1.00	0.00	O
ATOM	5826	N GLU C 685	75.850	14.464	36.609	1.00	0.00	N
ATOM	5827	CA GLU C 685	74.916	13.616	35.941	1.00	0.00	C
ATOM	5828	C GLU C 685	73.593	14.301	35.888	1.00	0.00	C
ATOM	5829	O GLU C 685	72.871	14.188	34.899	1.00	0.00	O
ATOM	5830	CB GLU C 685	74.717	12.296	36.709	1.00	0.00	C
ATOM	5831	CG GLU C 685	73.473	11.498	36.314	1.00	0.00	C
ATOM	5832	CD GLU C 685	73.742	10.708	35.046	1.00	0.00	C
ATOM	5833	OE1 GLU C 685	74.904	10.256	34.852	1.00	0.00	O
ATOM	5834	OE2 GLU C 685	72.777	10.543	34.256	1.00	0.00	O
ATOM	5835	N ILE C 686	73.229	15.025	36.961	1.00	0.00	N
ATOM	5836	CA ILE C 686	71.942	15.648	36.990	1.00	0.00	C
ATOM	5837	C ILE C 686	71.888	16.679	35.914	1.00	0.00	C
ATOM	5838	O ILE C 686	72.806	17.477	35.739	1.00	0.00	O
ATOM	5839	CB ILE C 686	71.618	16.301	38.305	1.00	0.00	C
ATOM	5840	CG1 ILE C 686	71.611	15.259	39.439	1.00	0.00	C
ATOM	5841	CG2 ILE C 686	70.271	17.018	38.147	1.00	0.00	C
ATOM	5842	CD1 ILE C 686	72.991	14.678	39.755	1.00	0.00	C
ATOM	5843	N SER C 687	70.786	16.656	35.138	1.00	0.00	N
ATOM	5844	CA SER C 687	70.610	17.570	34.052	1.00	0.00	C
ATOM	5845	C SER C 687	70.244	18.902	34.618	1.00	0.00	C

ATOM	5846	O	SER	C	687	69.786	19.016	35.754	1.00	0.00	O
ATOM	5847	CB	SER	C	687	69.503	17.151	33.071	1.00	0.00	C
ATOM	5848	OG	SER	C	687	69.388	18.103	32.024	1.00	0.00	O
ATOM	5849	N	ARG	C	688	70.454	19.955	33.806	1.00	0.00	N
ATOM	5850	CA	ARG	C	688	70.202	21.313	34.181	1.00	0.00	C
ATOM	5851	C	ARG	C	688	68.753	21.621	33.965	1.00	0.00	C
ATOM	5852	O	ARG	C	688	67.959	20.750	33.615	1.00	0.00	O
ATOM	5853	CB	ARG	C	688	71.030	22.323	33.370	1.00	0.00	C
ATOM	5854	CG	ARG	C	688	70.782	22.251	31.864	1.00	0.00	C
ATOM	5855	CD	ARG	C	688	71.795	23.063	31.051	1.00	0.00	C
ATOM	5856	NE	ARG	C	688	73.045	22.256	30.968	1.00	0.00	N
ATOM	5857	CZ	ARG	C	688	74.255	22.876	30.840	1.00	0.00	C
ATOM	5858	NH1	ARG	C	688	74.334	24.238	30.849	1.00	0.00	N
ATOM	5859	NH2	ARG	C	688	75.391	22.128	30.701	1.00	0.00	N
ATOM	5860	N	ASP	C	689	68.395	22.896	34.199	1.00	0.00	N
ATOM	5861	CA	ASP	C	689	67.062	23.402	34.060	1.00	0.00	C
ATOM	5862	C	ASP	C	689	66.137	22.698	34.998	1.00	0.00	C
ATOM	5863	O	ASP	C	689	65.017	22.343	34.636	1.00	0.00	O
ATOM	5864	CB	ASP	C	689	66.494	23.269	32.636	1.00	0.00	C
ATOM	5865	CG	ASP	C	689	65.246	24.137	32.552	1.00	0.00	C
ATOM	5866	OD1	ASP	C	689	64.936	24.828	33.559	1.00	0.00	O
ATOM	5867	OD2	ASP	C	689	64.590	24.124	31.476	1.00	0.00	O
ATOM	5868	N	THR	C	690	66.599	22.474	36.244	1.00	0.00	N
ATOM	5869	CA	THR	C	690	65.752	21.911	37.255	1.00	0.00	C
ATOM	5870	C	THR	C	690	65.765	22.900	38.375	1.00	0.00	C
ATOM	5871	O	THR	C	690	66.655	23.743	38.458	1.00	0.00	O
ATOM	5872	CB	THR	C	690	66.232	20.600	37.817	1.00	0.00	C
ATOM	5873	CG2	THR	C	690	66.321	19.576	36.672	1.00	0.00	C
ATOM	5874	OG1	THR	C	690	67.496	20.758	38.443	1.00	0.00	O
ATOM	5875	N	LYS	C	691	64.751	22.843	39.261	1.00	0.00	N
ATOM	5876	CA	LYS	C	691	64.708	23.786	40.338	1.00	0.00	C
ATOM	5877	C	LYS	C	691	65.776	23.435	41.321	1.00	0.00	C
ATOM	5878	O	LYS	C	691	66.026	22.271	41.625	1.00	0.00	O
ATOM	5879	CB	LYS	C	691	63.371	23.798	41.092	1.00	0.00	C
ATOM	5880	CG	LYS	C	691	62.242	24.432	40.287	1.00	0.00	C
ATOM	5881	CD	LYS	C	691	60.848	24.108	40.820	1.00	0.00	C
ATOM	5882	CE	LYS	C	691	59.727	24.856	40.100	1.00	0.00	C
ATOM	5883	NZ	LYS	C	691	58.416	24.482	40.673	1.00	0.00	N1+
ATOM	5884	N	ASN	C	692	66.469	24.462	41.834	1.00	0.00	N
ATOM	5885	CA	ASN	C	692	67.510	24.224	42.782	1.00	0.00	C
ATOM	5886	C	ASN	C	692	66.903	23.752	44.065	1.00	0.00	C
ATOM	5887	O	ASN	C	692	67.425	22.851	44.716	1.00	0.00	O
ATOM	5888	CB	ASN	C	692	68.336	25.481	43.090	1.00	0.00	C
ATOM	5889	CG	ASN	C	692	69.620	25.037	43.773	1.00	0.00	C

ATOM	5890	ND2 ASN C 692	70.779	25.499	43.232	1.00	0.00	N
ATOM	5891	OD1 ASN C 692	69.596	24.291	44.750	1.00	0.00	O
ATOM	5892	N TRP C 693	65.762	24.352	44.453	1.00	0.00	N
ATOM	5893	CA TRP C 693	65.176	24.032	45.721	1.00	0.00	C
ATOM	5894	C TRP C 693	64.806	22.586	45.727	1.00	0.00	C
ATOM	5895	O TRP C 693	65.024	21.884	46.712	1.00	0.00	O
ATOM	5896	CB TRP C 693	63.903	24.841	46.037	1.00	0.00	C
ATOM	5897	CG TRP C 693	62.716	24.571	45.138	1.00	0.00	C
ATOM	5898	CD1 TRP C 693	62.317	25.202	43.996	1.00	0.00	C
ATOM	5899	CD2 TRP C 693	61.741	23.552	45.401	1.00	0.00	C
ATOM	5900	CE2 TRP C 693	60.785	23.622	44.387	1.00	0.00	C
ATOM	5901	CE3 TRP C 693	61.644	22.635	46.408	1.00	0.00	C
ATOM	5902	NE1 TRP C 693	61.152	24.639	43.532	1.00	0.00	N
ATOM	5903	CZ2 TRP C 693	59.717	22.774	44.363	1.00	0.00	C
ATOM	5904	CZ3 TRP C 693	60.567	21.776	46.379	1.00	0.00	C
ATOM	5905	CH2 TRP C 693	59.621	21.844	45.377	1.00	0.00	C
ATOM	5906	N LYS C 694	64.242	22.101	44.608	1.00	0.00	N
ATOM	5907	CA LYS C 694	63.799	20.741	44.552	1.00	0.00	C
ATOM	5908	C LYS C 694	64.979	19.833	44.706	1.00	0.00	C
ATOM	5909	O LYS C 694	64.869	18.778	45.331	1.00	0.00	O
ATOM	5910	CB LYS C 694	63.061	20.401	43.246	1.00	0.00	C
ATOM	5911	CG LYS C 694	63.944	20.557	42.019	1.00	0.00	C
ATOM	5912	CD LYS C 694	63.287	20.166	40.702	1.00	0.00	C
ATOM	5913	CE LYS C 694	62.259	21.181	40.205	1.00	0.00	C
ATOM	5914	NZ LYS C 694	61.959	20.923	38.781	1.00	0.00	NI+
ATOM	5915	N ILE C 695	66.141	20.213	44.150	1.00	0.00	N
ATOM	5916	CA ILE C 695	67.305	19.380	44.235	1.00	0.00	C
ATOM	5917	C ILE C 695	67.658	19.244	45.684	1.00	0.00	C
ATOM	5918	O ILE C 695	67.940	18.151	46.173	1.00	0.00	O
ATOM	5919	CB ILE C 695	68.529	20.022	43.647	1.00	0.00	C
ATOM	5920	CG1 ILE C 695	68.297	20.574	42.238	1.00	0.00	C
ATOM	5921	CG2 ILE C 695	69.644	18.970	43.690	1.00	0.00	C
ATOM	5922	CD1 ILE C 695	69.444	21.472	41.769	1.00	0.00	C
ATOM	5923	N ILE C 696	67.657	20.379	46.405	1.00	0.00	N
ATOM	5924	CA ILE C 696	68.044	20.401	47.784	1.00	0.00	C
ATOM	5925	C ILE C 696	67.069	19.597	48.572	1.00	0.00	C
ATOM	5926	O ILE C 696	67.457	18.820	49.444	1.00	0.00	O
ATOM	5927	CB ILE C 696	68.075	21.785	48.364	1.00	0.00	C
ATOM	5928	CG1 ILE C 696	69.108	22.652	47.624	1.00	0.00	C
ATOM	5929	CG2 ILE C 696	68.346	21.662	49.874	1.00	0.00	C
ATOM	5930	CD1 ILE C 696	69.018	24.138	47.969	1.00	0.00	C
ATOM	5931	N LEU C 697	65.765	19.749	48.280	1.00	0.00	N
ATOM	5932	CA LEU C 697	64.787	19.032	49.039	1.00	0.00	C
ATOM	5933	C LEU C 697	65.081	17.591	48.824	1.00	0.00	C

ATOM	5934	O	LEU	C	697	65.138	16.815	49.773	1.00	0.00	O
ATOM	5935	CB	LEU	C	697	63.344	19.321	48.566	1.00	0.00	C
ATOM	5936	CG	LEU	C	697	62.204	18.776	49.461	1.00	0.00	C
ATOM	5937	CD1	LEU	C	697	60.834	19.140	48.865	1.00	0.00	C
ATOM	5938	CD2	LEU	C	697	62.315	17.271	49.754	1.00	0.00	C
ATOM	5939	N	CYS	C	698	65.350	17.218	47.561	1.00	0.00	N
ATOM	5940	CA	CYS	C	698	65.578	15.850	47.220	1.00	0.00	C
ATOM	5941	C	CYS	C	698	66.746	15.373	48.009	1.00	0.00	C
ATOM	5942	O	CYS	C	698	66.763	14.227	48.444	1.00	0.00	O
ATOM	5943	CB	CYS	C	698	65.909	15.650	45.728	1.00	0.00	C
ATOM	5944	SG	CYS	C	698	64.493	16.018	44.652	1.00	0.00	S
ATOM	5945	N	LEU	C	699	67.726	16.259	48.250	1.00	0.00	N
ATOM	5946	CA	LEU	C	699	68.949	15.899	48.908	1.00	0.00	C
ATOM	5947	C	LEU	C	699	68.684	15.335	50.266	1.00	0.00	C
ATOM	5948	O	LEU	C	699	69.338	14.376	50.667	1.00	0.00	O
ATOM	5949	CB	LEU	C	699	69.875	17.103	49.137	1.00	0.00	C
ATOM	5950	CG	LEU	C	699	71.191	16.726	49.841	1.00	0.00	C
ATOM	5951	CD1	LEU	C	699	72.135	15.968	48.898	1.00	0.00	C
ATOM	5952	CD2	LEU	C	699	71.837	17.943	50.517	1.00	0.00	C
ATOM	5953	N	PHE	C	700	67.771	15.932	51.057	1.00	0.00	N
ATOM	5954	CA	PHE	C	700	67.589	15.372	52.366	1.00	0.00	C
ATOM	5955	C	PHE	C	700	66.931	14.020	52.280	1.00	0.00	C
ATOM	5956	O	PHE	C	700	67.402	13.043	52.856	1.00	0.00	O
ATOM	5957	CB	PHE	C	700	66.731	16.234	53.305	1.00	0.00	C
ATOM	5958	CG	PHE	C	700	66.943	15.675	54.667	1.00	0.00	C
ATOM	5959	CD1	PHE	C	700	67.992	16.121	55.439	1.00	0.00	C
ATOM	5960	CD2	PHE	C	700	66.115	14.699	55.173	1.00	0.00	C
ATOM	5961	CE1	PHE	C	700	68.210	15.616	56.697	1.00	0.00	C
ATOM	5962	CE2	PHE	C	700	66.330	14.188	56.432	1.00	0.00	C
ATOM	5963	CZ	PHE	C	700	67.377	14.645	57.196	1.00	0.00	C
ATOM	5964	N	ILE	C	701	65.814	13.983	51.529	1.00	0.00	N
ATOM	5965	CA	ILE	C	701	64.850	12.951	51.232	1.00	0.00	C
ATOM	5966	C	ILE	C	701	65.345	11.856	50.306	1.00	0.00	C
ATOM	5967	O	ILE	C	701	64.640	10.879	50.067	1.00	0.00	O
ATOM	5968	CB	ILE	C	701	63.483	13.512	50.869	1.00	0.00	C
ATOM	5969	CG1	ILE	C	701	62.445	12.406	50.618	1.00	0.00	C
ATOM	5970	CG2	ILE	C	701	63.618	14.557	49.760	1.00	0.00	C
ATOM	5971	CD1	ILE	C	701	62.086	11.606	51.868	1.00	0.00	C
ATOM	5972	N	ILE	C	702	66.563	11.971	49.739	1.00	0.00	N
ATOM	5973	CA	ILE	C	702	66.990	11.219	48.582	1.00	0.00	C
ATOM	5974	C	ILE	C	702	66.654	9.753	48.572	1.00	0.00	C
ATOM	5975	O	ILE	C	702	66.121	9.354	47.539	1.00	0.00	O
ATOM	5976	CB	ILE	C	702	68.486	11.235	48.357	1.00	0.00	C
ATOM	5977	CG1	ILE	C	702	69.213	10.563	49.531	1.00	0.00	C

ATOM	5978	CG2 ILE C 702	68.971	12.664	48.081	1.00	0.00	C
ATOM	5979	CD1 ILE C 702	70.684	10.255	49.251	1.00	0.00	C
ATOM	5980	N PRO C 703	66.891	8.910	49.548	1.00	0.00	N
ATOM	5981	CA PRO C 703	66.630	7.494	49.387	1.00	0.00	C
ATOM	5982	C PRO C 703	65.254	7.164	48.875	1.00	0.00	C
ATOM	5983	O PRO C 703	65.155	6.394	47.919	1.00	0.00	O
ATOM	5984	CB PRO C 703	66.857	6.887	50.768	1.00	0.00	C
ATOM	5985	CG PRO C 703	66.465	8.030	51.718	1.00	0.00	C
ATOM	5986	CD PRO C 703	66.852	9.305	50.947	1.00	0.00	C
ATOM	5987	N LEU C 704	64.185	7.673	49.516	1.00	0.00	N
ATOM	5988	CA LEU C 704	62.853	7.406	49.044	1.00	0.00	C
ATOM	5989	C LEU C 704	62.525	8.231	47.827	1.00	0.00	C
ATOM	5990	O LEU C 704	62.158	7.706	46.779	1.00	0.00	O
ATOM	5991	CB LEU C 704	61.801	7.756	50.122	1.00	0.00	C
ATOM	5992	CG LEU C 704	60.348	7.272	49.894	1.00	0.00	C
ATOM	5993	CD1 LEU C 704	59.460	7.762	51.044	1.00	0.00	C
ATOM	5994	CD2 LEU C 704	59.747	7.639	48.528	1.00	0.00	C
ATOM	5995	N VAL C 705	62.670	9.565	47.981	1.00	0.00	N
ATOM	5996	CA VAL C 705	62.239	10.606	47.075	1.00	0.00	C
ATOM	5997	C VAL C 705	63.043	10.745	45.820	1.00	0.00	C
ATOM	5998	O VAL C 705	62.511	11.142	44.786	1.00	0.00	O
ATOM	5999	CB VAL C 705	62.276	11.956	47.710	1.00	0.00	C
ATOM	6000	CG1 VAL C 705	63.753	12.337	47.871	1.00	0.00	C
ATOM	6001	CG2 VAL C 705	61.465	12.940	46.850	1.00	0.00	C
ATOM	6002	N GLY C 706	64.352	10.451	45.876	1.00	0.00	N
ATOM	6003	CA GLY C 706	65.253	10.777	44.816	1.00	0.00	C
ATOM	6004	C GLY C 706	64.869	10.125	43.526	1.00	0.00	C
ATOM	6005	O GLY C 706	65.129	10.674	42.456	1.00	0.00	O
ATOM	6006	N CYS C 707	64.283	8.921	43.580	1.00	0.00	N
ATOM	6007	CA CYS C 707	64.045	8.215	42.359	1.00	0.00	C
ATOM	6008	C CYS C 707	63.167	8.971	41.404	1.00	0.00	C
ATOM	6009	O CYS C 707	63.542	9.178	40.251	1.00	0.00	O
ATOM	6010	CB CYS C 707	63.373	6.848	42.581	1.00	0.00	C
ATOM	6011	SG CYS C 707	64.437	5.661	43.455	1.00	0.00	S
ATOM	6012	N GLY C 708	61.977	9.408	41.850	1.00	0.00	N
ATOM	6013	CA GLY C 708	61.028	9.943	40.910	1.00	0.00	C
ATOM	6014	C GLY C 708	61.374	11.264	40.278	1.00	0.00	C
ATOM	6015	O GLY C 708	61.389	11.376	39.052	1.00	0.00	O
ATOM	6016	N PHE C 709	61.666	12.301	41.085	1.00	0.00	N
ATOM	6017	CA PHE C 709	61.749	13.618	40.510	1.00	0.00	C
ATOM	6018	C PHE C 709	62.963	13.875	39.680	1.00	0.00	C
ATOM	6019	O PHE C 709	62.858	14.487	38.619	1.00	0.00	O
ATOM	6020	CB PHE C 709	61.670	14.774	41.518	1.00	0.00	C
ATOM	6021	CG PHE C 709	61.406	15.967	40.661	1.00	0.00	C

ATOM	6022	CD1 PHE C 709	60.112	16.308	40.344	1.00	0.00	C
ATOM	6023	CD2 PHE C 709	62.431	16.729	40.151	1.00	0.00	C
ATOM	6024	CE1 PHE C 709	59.842	17.395	39.547	1.00	0.00	C
ATOM	6025	CE2 PHE C 709	62.166	17.813	39.346	1.00	0.00	C
ATOM	6026	CZ PHE C 709	60.872	18.151	39.042	1.00	0.00	C
ATOM	6027	N VAL C 710	64.148	13.420	40.127	1.00	0.00	N
ATOM	6028	CA VAL C 710	65.351	13.855	39.479	1.00	0.00	C
ATOM	6029	C VAL C 710	65.345	13.512	38.020	1.00	0.00	C
ATOM	6030	O VAL C 710	65.214	12.358	37.609	1.00	0.00	O
ATOM	6031	CB VAL C 710	66.601	13.276	40.074	1.00	0.00	C
ATOM	6032	CG1 VAL C 710	66.680	13.695	41.542	1.00	0.00	C
ATOM	6033	CG2 VAL C 710	66.591	11.757	39.878	1.00	0.00	C
ATOM	6034	N SER C 711	65.502	14.555	37.185	1.00	0.00	N
ATOM	6035	CA SER C 711	65.588	14.298	35.784	1.00	0.00	C
ATOM	6036	C SER C 711	67.019	14.521	35.439	1.00	0.00	C
ATOM	6037	O SER C 711	67.432	15.625	35.099	1.00	0.00	O
ATOM	6038	CB SER C 711	64.786	15.289	34.918	1.00	0.00	C
ATOM	6039	OG SER C 711	63.399	15.195	35.203	1.00	0.00	O
ATOM	6040	N PHE C 712	67.813	13.445	35.512	1.00	0.00	N
ATOM	6041	CA PHE C 712	69.206	13.509	35.203	1.00	0.00	C
ATOM	6042	C PHE C 712	69.384	13.023	33.808	1.00	0.00	C
ATOM	6043	O PHE C 712	68.418	12.602	33.171	1.00	0.00	O
ATOM	6044	CB PHE C 712	70.063	12.693	36.193	1.00	0.00	C
ATOM	6045	CG PHE C 712	69.504	11.311	36.289	1.00	0.00	C
ATOM	6046	CD1 PHE C 712	68.339	11.085	36.984	1.00	0.00	C
ATOM	6047	CD2 PHE C 712	70.149	10.240	35.717	1.00	0.00	C
ATOM	6048	CE1 PHE C 712	67.814	9.818	37.084	1.00	0.00	C
ATOM	6049	CE2 PHE C 712	69.628	8.970	35.812	1.00	0.00	C
ATOM	6050	CZ PHE C 712	68.458	8.755	36.495	1.00	0.00	C
ATOM	6051	N ARG C 713	70.632	13.110	33.285	1.00	0.00	N
ATOM	6052	CA ARG C 713	70.918	12.608	31.969	1.00	0.00	C
ATOM	6053	C ARG C 713	70.408	11.194	31.966	1.00	0.00	C
ATOM	6054	O ARG C 713	70.270	10.570	33.011	1.00	0.00	O
ATOM	6055	CB ARG C 713	72.414	12.613	31.601	1.00	0.00	C
ATOM	6056	CG ARG C 713	72.957	14.029	31.371	1.00	0.00	C
ATOM	6057	CD ARG C 713	74.406	14.077	30.872	1.00	0.00	C
ATOM	6058	NE ARG C 713	74.716	15.501	30.556	1.00	0.00	N
ATOM	6059	CZ ARG C 713	75.759	15.817	29.735	1.00	0.00	C
ATOM	6060	NH1 ARG C 713	76.555	14.832	29.227	1.00	0.00	N
ATOM	6061	NH2 ARG C 713	76.001	17.121	29.414	1.00	0.00	N
ATOM	6062	N LYS C 714	70.183	10.622	30.782	1.00	0.00	N
ATOM	6063	CA LYS C 714	69.322	9.483	30.597	1.00	0.00	C
ATOM	6064	C LYS C 714	69.479	8.305	31.538	1.00	0.00	C
ATOM	6065	O LYS C 714	68.467	7.888	32.088	1.00	0.00	O

ATOM	6066	CB	LYS	C	714	69.441	8.943	29.163	1.00	0.00	C
ATOM	6067	CG	LYS	C	714	68.367	7.928	28.783	1.00	0.00	C
ATOM	6068	CD	LYS	C	714	68.305	7.667	27.276	1.00	0.00	C
ATOM	6069	CE	LYS	C	714	67.243	6.646	26.871	1.00	0.00	C
ATOM	6070	NZ	LYS	C	714	67.273	6.446	25.405	1.00	0.00	N1+
ATOM	6071	N	LYS	C	715	70.682	7.750	31.784	1.00	0.00	N
ATOM	6072	CA	LYS	C	715	70.898	6.546	32.578	1.00	0.00	C
ATOM	6073	C	LYS	C	715	69.807	5.520	32.383	1.00	0.00	C
ATOM	6074	O	LYS	C	715	69.002	5.264	33.279	1.00	0.00	O
ATOM	6075	CB	LYS	C	715	70.974	6.846	34.080	1.00	0.00	C
ATOM	6076	CG	LYS	C	715	72.017	7.910	34.405	1.00	0.00	C
ATOM	6077	CD	LYS	C	715	73.428	7.523	33.975	1.00	0.00	C
ATOM	6078	CE	LYS	C	715	74.246	6.942	35.124	1.00	0.00	C
ATOM	6079	NZ	LYS	C	715	73.542	5.772	35.692	1.00	0.00	N1+
ATOM	6080	N	PRO	C	716	69.819	4.886	31.234	1.00	0.00	N
ATOM	6081	CA	PRO	C	716	68.830	3.913	30.826	1.00	0.00	C
ATOM	6082	C	PRO	C	716	68.895	2.528	31.394	1.00	0.00	C
ATOM	6083	O	PRO	C	716	67.968	1.769	31.118	1.00	0.00	O
ATOM	6084	CB	PRO	C	716	68.886	3.876	29.297	1.00	0.00	C
ATOM	6085	CG	PRO	C	716	70.279	4.426	28.953	1.00	0.00	C
ATOM	6086	CD	PRO	C	716	70.567	5.401	30.099	1.00	0.00	C
ATOM	6087	N	VAL	C	717	69.942	2.148	32.159	1.00	0.00	N
ATOM	6088	CA	VAL	C	717	70.074	0.764	32.546	1.00	0.00	C
ATOM	6089	C	VAL	C	717	68.837	0.280	33.233	1.00	0.00	C
ATOM	6090	O	VAL	C	717	68.313	0.920	34.142	1.00	0.00	O
ATOM	6091	CB	VAL	C	717	71.235	0.500	33.460	1.00	0.00	C
ATOM	6092	CG1	VAL	C	717	70.996	1.240	34.786	1.00	0.00	C
ATOM	6093	CG2	VAL	C	717	71.392	-1.024	33.615	1.00	0.00	C
ATOM	6094	N	ASP	C	718	68.327	-0.881	32.769	1.00	0.00	N
ATOM	6095	CA	ASP	C	718	67.149	-1.489	33.316	1.00	0.00	C
ATOM	6096	C	ASP	C	718	67.545	-2.491	34.338	1.00	0.00	C
ATOM	6097	O	ASP	C	718	68.630	-2.430	34.912	1.00	0.00	O
ATOM	6098	CB	ASP	C	718	66.265	-2.226	32.295	1.00	0.00	C
ATOM	6099	CG	ASP	C	718	65.346	-1.205	31.663	1.00	0.00	C
ATOM	6100	OD1	ASP	C	718	65.185	-0.113	32.269	1.00	0.00	O
ATOM	6101	OD2	ASP	C	718	64.775	-1.502	30.579	1.00	0.00	O
ATOM	6102	N	LYS	C	719	66.627	-3.443	34.589	1.00	0.00	N
ATOM	6103	CA	LYS	C	719	66.856	-4.464	35.564	1.00	0.00	C
ATOM	6104	C	LYS	C	719	66.945	-3.789	36.885	1.00	0.00	C
ATOM	6105	O	LYS	C	719	67.532	-4.317	37.830	1.00	0.00	O
ATOM	6106	CB	LYS	C	719	68.175	-5.219	35.333	1.00	0.00	C
ATOM	6107	CG	LYS	C	719	68.170	-6.119	34.096	1.00	0.00	C
ATOM	6108	CD	LYS	C	719	67.220	-7.312	34.213	1.00	0.00	C
ATOM	6109	CE	LYS	C	719	67.757	-8.415	35.130	1.00	0.00	C

ATOM 6110	NZ	LYS C 719	66.795	-9.540	35.196	1.00	0.00	N1+
HETATM 6111	N	HIE C 720	66.339	-2.594	36.977	1.00	0.00	N
HETATM 6112	CA	HIE C 720	66.350	-1.829	38.190	1.00	0.00	C
HETATM 6113	C	HIE C 720	67.771	-1.526	38.525	1.00	0.00	C
HETATM 6114	O	HIE C 720	68.090	-1.171	39.658	1.00	0.00	O
HETATM 6115	CB	HIE C 720	65.717	-2.576	39.377	1.00	0.00	C
HETATM 6116	CG	HIE C 720	64.244	-2.797	39.212	1.00	0.00	C
HETATM 6117	CD2	HIE C 720	63.563	-3.846	38.671	1.00	0.00	C
HETATM 6118	ND1	HIE C 720	63.281	-1.895	39.611	1.00	0.00	N
HETATM 6119	CE1	HIE C 720	62.080	-2.436	39.296	1.00	0.00	C
HETATM 6120	NE2	HIE C 720	62.200	-3.620	38.722	1.00	0.00	N
ATOM 6121	N	LYS C 721	68.662	-1.653	37.526	1.00	0.00	N
ATOM 6122	CA	LYS C 721	70.036	-1.292	37.700	1.00	0.00	C
ATOM 6123	C	LYS C 721	70.039	0.185	37.841	1.00	0.00	C
ATOM 6124	O	LYS C 721	70.807	0.762	38.603	1.00	0.00	O
ATOM 6125	CB	LYS C 721	70.918	-1.600	36.478	1.00	0.00	C
ATOM 6126	CG	LYS C 721	71.474	-3.020	36.428	1.00	0.00	C
ATOM 6127	CD	LYS C 721	72.483	-3.314	37.539	1.00	0.00	C
ATOM 6128	CE	LYS C 721	71.905	-3.205	38.949	1.00	0.00	C
ATOM 6129	NZ	LYS C 721	72.952	-3.498	39.952	1.00	0.00	N1+
ATOM 6130	N	LYS C 722	69.110	0.821	37.110	1.00	0.00	N
ATOM 6131	CA	LYS C 722	69.075	2.242	36.986	1.00	0.00	C
ATOM 6132	C	LYS C 722	68.960	2.903	38.318	1.00	0.00	C
ATOM 6133	O	LYS C 722	69.615	3.914	38.555	1.00	0.00	O
ATOM 6134	CB	LYS C 722	67.895	2.747	36.138	1.00	0.00	C
ATOM 6135	CG	LYS C 722	66.520	2.404	36.717	1.00	0.00	C
ATOM 6136	CD	LYS C 722	66.262	0.901	36.837	1.00	0.00	C
ATOM 6137	CE	LYS C 722	64.853	0.565	37.332	1.00	0.00	C
ATOM 6138	NZ	LYS C 722	63.884	0.671	36.216	1.00	0.00	N1+
ATOM 6139	N	LEU C 723	68.143	2.361	39.235	1.00	0.00	N
ATOM 6140	CA	LEU C 723	67.927	3.050	40.472	1.00	0.00	C
ATOM 6141	C	LEU C 723	69.231	3.214	41.202	1.00	0.00	C
ATOM 6142	O	LEU C 723	69.584	4.322	41.602	1.00	0.00	O
ATOM 6143	CB	LEU C 723	66.921	2.279	41.363	1.00	0.00	C
ATOM 6144	CG	LEU C 723	66.512	2.910	42.714	1.00	0.00	C
ATOM 6145	CD1	LEU C 723	65.385	2.090	43.360	1.00	0.00	C
ATOM 6146	CD2	LEU C 723	67.689	3.068	43.689	1.00	0.00	C
ATOM 6147	N	LEU C 724	70.004	2.119	41.363	1.00	0.00	N
ATOM 6148	CA	LEU C 724	71.221	2.190	42.126	1.00	0.00	C
ATOM 6149	C	LEU C 724	72.192	3.088	41.441	1.00	0.00	C
ATOM 6150	O	LEU C 724	72.800	3.960	42.063	1.00	0.00	O
ATOM 6151	CB	LEU C 724	71.934	0.830	42.251	1.00	0.00	C
ATOM 6152	CG	LEU C 724	71.125	-0.244	42.998	1.00	0.00	C
ATOM 6153	CD1	LEU C 724	70.892	0.157	44.464	1.00	0.00	C

ATOM	6154	CD2	LEU	C	724	69.832	-0.594	42.249	1.00	0.00	C
ATOM	6155	N	TRP	C	725	72.341	2.911	40.118	1.00	0.00	N
ATOM	6156	CA	TRP	C	725	73.299	3.667	39.378	1.00	0.00	C
ATOM	6157	C	TRP	C	725	72.913	5.107	39.462	1.00	0.00	C
ATOM	6158	O	TRP	C	725	73.763	5.983	39.605	1.00	0.00	O
ATOM	6159	CB	TRP	C	725	73.373	3.257	37.897	1.00	0.00	C
ATOM	6160	CG	TRP	C	725	73.959	1.881	37.664	1.00	0.00	C
ATOM	6161	CD1	TRP	C	725	73.334	0.672	37.558	1.00	0.00	C
ATOM	6162	CD2	TRP	C	725	75.365	1.622	37.517	1.00	0.00	C
ATOM	6163	CE2	TRP	C	725	75.511	0.246	37.329	1.00	0.00	C
ATOM	6164	CE3	TRP	C	725	76.443	2.459	37.538	1.00	0.00	C
ATOM	6165	NE1	TRP	C	725	74.256	-0.323	37.359	1.00	0.00	N
ATOM	6166	CZ2	TRP	C	725	76.746	-0.316	37.159	1.00	0.00	C
ATOM	6167	CZ3	TRP	C	725	77.685	1.889	37.362	1.00	0.00	C
ATOM	6168	CH2	TRP	C	725	77.833	0.529	37.179	1.00	0.00	C
ATOM	6169	N	TYR	C	726	71.603	5.391	39.399	1.00	0.00	N
ATOM	6170	CA	TYR	C	726	71.171	6.752	39.437	1.00	0.00	C
ATOM	6171	C	TYR	C	726	71.595	7.388	40.715	1.00	0.00	C
ATOM	6172	O	TYR	C	726	72.092	8.513	40.709	1.00	0.00	O
ATOM	6173	CB	TYR	C	726	69.650	6.950	39.364	1.00	0.00	C
ATOM	6174	CG	TYR	C	726	69.469	8.322	39.918	1.00	0.00	C
ATOM	6175	CD1	TYR	C	726	69.870	9.429	39.204	1.00	0.00	C
ATOM	6176	CD2	TYR	C	726	68.901	8.491	41.159	1.00	0.00	C
ATOM	6177	CE1	TYR	C	726	69.714	10.687	39.730	1.00	0.00	C
ATOM	6178	CE2	TYR	C	726	68.743	9.746	41.690	1.00	0.00	C
ATOM	6179	CZ	TYR	C	726	69.152	10.844	40.972	1.00	0.00	C
ATOM	6180	OH	TYR	C	726	68.986	12.133	41.513	1.00	0.00	O
ATOM	6181	N	TYR	C	727	71.415	6.694	41.849	1.00	0.00	N
ATOM	6182	CA	TYR	C	727	71.751	7.311	43.098	1.00	0.00	C
ATOM	6183	C	TYR	C	727	73.204	7.640	43.137	1.00	0.00	C
ATOM	6184	O	TYR	C	727	73.575	8.732	43.568	1.00	0.00	O
ATOM	6185	CB	TYR	C	727	71.412	6.454	44.331	1.00	0.00	C
ATOM	6186	CG	TYR	C	727	69.959	6.628	44.600	1.00	0.00	C
ATOM	6187	CD1	TYR	C	727	69.541	7.711	45.334	1.00	0.00	C
ATOM	6188	CD2	TYR	C	727	69.019	5.739	44.132	1.00	0.00	C
ATOM	6189	CE1	TYR	C	727	68.207	7.910	45.604	1.00	0.00	C
ATOM	6190	CE2	TYR	C	727	67.683	5.931	44.398	1.00	0.00	C
ATOM	6191	CZ	TYR	C	727	67.278	7.018	45.136	1.00	0.00	C
ATOM	6192	OH	TYR	C	727	65.909	7.220	45.415	1.00	0.00	O
ATOM	6193	N	VAL	C	728	74.077	6.726	42.687	1.00	0.00	N
ATOM	6194	CA	VAL	C	728	75.474	7.034	42.775	1.00	0.00	C
ATOM	6195	C	VAL	C	728	75.751	8.236	41.922	1.00	0.00	C
ATOM	6196	O	VAL	C	728	76.487	9.136	42.327	1.00	0.00	O
ATOM	6197	CB	VAL	C	728	76.376	5.913	42.331	1.00	0.00	C

ATOM	6198	CG1 VAL C 728	76.198	5.669	40.824	1.00	0.00	C
ATOM	6199	CG2 VAL C 728	77.819	6.273	42.729	1.00	0.00	C
ATOM	6200	N ALA C 729	75.145	8.292	40.720	1.00	0.00	N
ATOM	6201	CA ALA C 729	75.355	9.373	39.800	1.00	0.00	C
ATOM	6202	C ALA C 729	74.879	10.640	40.432	1.00	0.00	C
ATOM	6203	O ALA C 729	75.465	11.703	40.239	1.00	0.00	O
ATOM	6204	CB ALA C 729	74.590	9.198	38.477	1.00	0.00	C
ATOM	6205	N PHE C 730	73.771	10.568	41.192	1.00	0.00	N
ATOM	6206	CA PHE C 730	73.265	11.742	41.839	1.00	0.00	C
ATOM	6207	C PHE C 730	74.297	12.211	42.814	1.00	0.00	C
ATOM	6208	O PHE C 730	74.552	13.408	42.933	1.00	0.00	O
ATOM	6209	CB PHE C 730	71.964	11.481	42.619	1.00	0.00	C
ATOM	6210	CG PHE C 730	71.569	12.762	43.272	1.00	0.00	C
ATOM	6211	CD1 PHE C 730	70.984	13.771	42.542	1.00	0.00	C
ATOM	6212	CD2 PHE C 730	71.776	12.955	44.620	1.00	0.00	C
ATOM	6213	CE1 PHE C 730	70.613	14.951	43.142	1.00	0.00	C
ATOM	6214	CE2 PHE C 730	71.410	14.131	45.224	1.00	0.00	C
ATOM	6215	CZ PHE C 730	70.827	15.134	44.487	1.00	0.00	C
ATOM	6216	N PHE C 731	74.927	11.259	43.525	1.00	0.00	N
ATOM	6217	CA PHE C 731	75.914	11.543	44.524	1.00	0.00	C
ATOM	6218	C PHE C 731	77.121	12.175	43.910	1.00	0.00	C
ATOM	6219	O PHE C 731	77.811	12.945	44.573	1.00	0.00	O
ATOM	6220	CB PHE C 731	76.374	10.311	45.325	1.00	0.00	C
ATOM	6221	CG PHE C 731	75.339	10.030	46.363	1.00	0.00	C
ATOM	6222	CD1 PHE C 731	75.345	10.739	47.540	1.00	0.00	C
ATOM	6223	CD2 PHE C 731	74.378	9.066	46.172	1.00	0.00	C
ATOM	6224	CE1 PHE C 731	74.404	10.500	48.516	1.00	0.00	C
ATOM	6225	CE2 PHE C 731	73.434	8.821	47.143	1.00	0.00	C
ATOM	6226	CZ PHE C 731	73.444	9.537	48.315	1.00	0.00	C
ATOM	6227	N THR C 732	77.435	11.844	42.645	1.00	0.00	N
ATOM	6228	CA THR C 732	78.627	12.348	42.022	1.00	0.00	C
ATOM	6229	C THR C 732	78.595	13.844	41.874	1.00	0.00	C
ATOM	6230	O THR C 732	79.642	14.483	41.960	1.00	0.00	O
ATOM	6231	CB THR C 732	78.900	11.779	40.657	1.00	0.00	C
ATOM	6232	CG2 THR C 732	78.886	10.242	40.757	1.00	0.00	C
ATOM	6233	OG1 THR C 732	77.930	12.220	39.721	1.00	0.00	O
ATOM	6234	N SER C 733	77.418	14.460	41.633	1.00	0.00	N
ATOM	6235	CA SER C 733	77.387	15.875	41.352	1.00	0.00	C
ATOM	6236	C SER C 733	77.965	16.672	42.483	1.00	0.00	C
ATOM	6237	O SER C 733	77.665	16.464	43.657	1.00	0.00	O
ATOM	6238	CB SER C 733	75.974	16.421	41.064	1.00	0.00	C
ATOM	6239	OG SER C 733	75.168	16.346	42.229	1.00	0.00	O
ATOM	6240	N PRO C 734	78.821	17.592	42.112	1.00	0.00	N
ATOM	6241	CA PRO C 734	79.461	18.475	43.053	1.00	0.00	C

ATOM	6242	C	PRO C 734	78.514	19.448	43.668	1.00	0.00	C
ATOM	6243	O	PRO C 734	78.795	19.933	44.762	1.00	0.00	O
ATOM	6244	CB	PRO C 734	80.596	19.155	42.291	1.00	0.00	C
ATOM	6245	CG	PRO C 734	80.945	18.150	41.181	1.00	0.00	C
ATOM	6246	CD	PRO C 734	79.628	17.402	40.916	1.00	0.00	C
ATOM	6247	N	PHE C 735	77.409	19.779	42.974	1.00	0.00	N
ATOM	6248	CA	PHE C 735	76.473	20.717	43.515	1.00	0.00	C
ATOM	6249	C	PHE C 735	75.893	20.112	44.746	1.00	0.00	C
ATOM	6250	O	PHE C 735	75.805	20.759	45.790	1.00	0.00	O
ATOM	6251	CB	PHE C 735	75.309	21.024	42.554	1.00	0.00	C
ATOM	6252	CG	PHE C 735	74.406	22.002	43.229	1.00	0.00	C
ATOM	6253	CD1	PHE C 735	74.702	23.343	43.243	1.00	0.00	C
ATOM	6254	CD2	PHE C 735	73.255	21.568	43.844	1.00	0.00	C
ATOM	6255	CE1	PHE C 735	73.860	24.238	43.866	1.00	0.00	C
ATOM	6256	CE2	PHE C 735	72.410	22.453	44.470	1.00	0.00	C
ATOM	6257	CZ	PHE C 735	72.717	23.794	44.482	1.00	0.00	C
ATOM	6258	N	VAL C 736	75.488	18.832	44.658	1.00	0.00	N
ATOM	6259	CA	VAL C 736	74.899	18.199	45.796	1.00	0.00	C
ATOM	6260	C	VAL C 736	75.949	18.068	46.849	1.00	0.00	C
ATOM	6261	O	VAL C 736	75.676	18.234	48.033	1.00	0.00	O
ATOM	6262	CB	VAL C 736	74.330	16.835	45.519	1.00	0.00	C
ATOM	6263	CG1	VAL C 736	73.238	16.981	44.447	1.00	0.00	C
ATOM	6264	CG2	VAL C 736	75.457	15.856	45.161	1.00	0.00	C
ATOM	6265	N	VAL C 737	77.193	17.771	46.429	1.00	0.00	N
ATOM	6266	CA	VAL C 737	78.263	17.586	47.362	1.00	0.00	C
ATOM	6267	C	VAL C 737	78.473	18.861	48.114	1.00	0.00	C
ATOM	6268	O	VAL C 737	78.653	18.844	49.328	1.00	0.00	O
ATOM	6269	CB	VAL C 737	79.564	17.240	46.695	1.00	0.00	C
ATOM	6270	CG1	VAL C 737	80.662	17.161	47.768	1.00	0.00	C
ATOM	6271	CG2	VAL C 737	79.374	15.939	45.896	1.00	0.00	C
ATOM	6272	N	PHE C 738	78.447	20.004	47.406	1.00	0.00	N
ATOM	6273	CA	PHE C 738	78.685	21.267	48.041	1.00	0.00	C
ATOM	6274	C	PHE C 738	77.620	21.531	49.053	1.00	0.00	C
ATOM	6275	O	PHE C 738	77.914	21.894	50.191	1.00	0.00	O
ATOM	6276	CB	PHE C 738	78.673	22.444	47.050	1.00	0.00	C
ATOM	6277	CG	PHE C 738	78.903	23.683	47.843	1.00	0.00	C
ATOM	6278	CD1	PHE C 738	80.172	24.047	48.226	1.00	0.00	C
ATOM	6279	CD2	PHE C 738	77.845	24.484	48.199	1.00	0.00	C
ATOM	6280	CE1	PHE C 738	80.380	25.194	48.957	1.00	0.00	C
ATOM	6281	CE2	PHE C 738	78.047	25.633	48.929	1.00	0.00	C
ATOM	6282	CZ	PHE C 738	79.317	25.988	49.310	1.00	0.00	C
ATOM	6283	N	SER C 739	76.348	21.338	48.669	1.00	0.00	N
ATOM	6284	CA	SER C 739	75.258	21.618	49.559	1.00	0.00	C
ATOM	6285	C	SER C 739	75.359	20.694	50.728	1.00	0.00	C

ATOM	6286	O	SER C 739	75.097	21.082	51.867	1.00	0.00	O
ATOM	6287	CB	SER C 739	73.882	21.384	48.908	1.00	0.00	C
ATOM	6288	OG	SER C 739	73.720	20.014	48.571	1.00	0.00	O
ATOM	6289	N	TRP C 740	75.747	19.436	50.470	1.00	0.00	N
ATOM	6290	CA	TRP C 740	75.844	18.471	51.518	1.00	0.00	C
ATOM	6291	C	TRP C 740	76.913	18.893	52.471	1.00	0.00	C
ATOM	6292	O	TRP C 740	76.737	18.828	53.686	1.00	0.00	O
ATOM	6293	CB	TRP C 740	76.185	17.066	50.991	1.00	0.00	C
ATOM	6294	CG	TRP C 740	76.256	16.013	52.066	1.00	0.00	C
ATOM	6295	CD1	TRP C 740	77.343	15.464	52.681	1.00	0.00	C
ATOM	6296	CD2	TRP C 740	75.100	15.410	52.666	1.00	0.00	C
ATOM	6297	CE2	TRP C 740	75.556	14.505	53.622	1.00	0.00	C
ATOM	6298	CE3	TRP C 740	73.769	15.598	52.434	1.00	0.00	C
ATOM	6299	NE1	TRP C 740	76.936	14.546	53.620	1.00	0.00	N
ATOM	6300	CZ2	TRP C 740	74.681	13.771	54.372	1.00	0.00	C
ATOM	6301	CZ3	TRP C 740	72.887	14.855	53.188	1.00	0.00	C
ATOM	6302	CH2	TRP C 740	73.335	13.959	54.135	1.00	0.00	C
ATOM	6303	N	ASN C 741	78.056	19.359	51.934	1.00	0.00	N
ATOM	6304	CA	ASN C 741	79.162	19.719	52.772	1.00	0.00	C
ATOM	6305	C	ASN C 741	78.753	20.836	53.675	1.00	0.00	C
ATOM	6306	O	ASN C 741	79.032	20.795	54.872	1.00	0.00	O
ATOM	6307	CB	ASN C 741	80.383	20.196	51.970	1.00	0.00	C
ATOM	6308	CG	ASN C 741	80.958	18.996	51.226	1.00	0.00	C
ATOM	6309	ND2	ASN C 741	81.411	19.226	49.966	1.00	0.00	N
ATOM	6310	OD1	ASN C 741	80.997	17.883	51.752	1.00	0.00	O
ATOM	6311	N	VAL C 742	78.066	21.863	53.141	1.00	0.00	N
ATOM	6312	CA	VAL C 742	77.714	22.969	53.982	1.00	0.00	C
ATOM	6313	C	VAL C 742	76.780	22.494	55.053	1.00	0.00	C
ATOM	6314	O	VAL C 742	76.939	22.854	56.219	1.00	0.00	O
ATOM	6315	CB	VAL C 742	77.065	24.111	53.250	1.00	0.00	C
ATOM	6316	CG1	VAL C 742	78.081	24.678	52.243	1.00	0.00	C
ATOM	6317	CG2	VAL C 742	75.752	23.636	52.611	1.00	0.00	C
ATOM	6318	N	VAL C 743	75.792	21.657	54.696	1.00	0.00	N
ATOM	6319	CA	VAL C 743	74.838	21.214	55.672	1.00	0.00	C
ATOM	6320	C	VAL C 743	75.550	20.431	56.731	1.00	0.00	C
ATOM	6321	O	VAL C 743	75.316	20.625	57.923	1.00	0.00	O
ATOM	6322	CB	VAL C 743	73.785	20.319	55.093	1.00	0.00	C
ATOM	6323	CG1	VAL C 743	72.878	19.836	56.237	1.00	0.00	C
ATOM	6324	CG2	VAL C 743	73.036	21.086	53.987	1.00	0.00	C
ATOM	6325	N	PHE C 744	76.453	19.528	56.321	1.00	0.00	N
ATOM	6326	CA	PHE C 744	77.148	18.669	57.239	1.00	0.00	C
ATOM	6327	C	PHE C 744	78.004	19.497	58.137	1.00	0.00	C
ATOM	6328	O	PHE C 744	78.043	19.280	59.346	1.00	0.00	O
ATOM	6329	CB	PHE C 744	78.075	17.680	56.511	1.00	0.00	C

ATOM	6330	CG	PHE	C	744	78.683	16.763	57.517	1.00	0.00	C
ATOM	6331	CD1	PHE	C	744	78.031	15.609	57.883	1.00	0.00	C
ATOM	6332	CD2	PHE	C	744	79.897	17.051	58.093	1.00	0.00	C
ATOM	6333	CE1	PHE	C	744	78.583	14.753	58.807	1.00	0.00	C
ATOM	6334	CE2	PHE	C	744	80.455	16.200	59.019	1.00	0.00	C
ATOM	6335	CZ	PHE	C	744	79.799	15.046	59.377	1.00	0.00	C
ATOM	6336	N	TYR	C	745	78.712	20.486	57.563	1.00	0.00	N
ATOM	6337	CA	TYR	C	745	79.642	21.238	58.341	1.00	0.00	C
ATOM	6338	C	TYR	C	745	78.897	21.993	59.390	1.00	0.00	C
ATOM	6339	O	TYR	C	745	79.351	22.092	60.528	1.00	0.00	O
ATOM	6340	CB	TYR	C	745	80.469	22.245	57.530	1.00	0.00	C
ATOM	6341	CG	TYR	C	745	81.630	22.561	58.401	1.00	0.00	C
ATOM	6342	CD1	TYR	C	745	81.533	23.459	59.436	1.00	0.00	C
ATOM	6343	CD2	TYR	C	745	82.833	21.930	58.182	1.00	0.00	C
ATOM	6344	CE1	TYR	C	745	82.625	23.727	60.231	1.00	0.00	C
ATOM	6345	CE2	TYR	C	745	83.926	22.191	58.973	1.00	0.00	C
ATOM	6346	CZ	TYR	C	745	83.820	23.096	60.001	1.00	0.00	C
ATOM	6347	OH	TYR	C	745	84.939	23.368	60.815	1.00	0.00	O
ATOM	6348	N	ILE	C	746	77.729	22.560	59.033	1.00	0.00	N
ATOM	6349	CA	ILE	C	746	76.994	23.328	59.993	1.00	0.00	C
ATOM	6350	C	ILE	C	746	76.584	22.411	61.095	1.00	0.00	C
ATOM	6351	O	ILE	C	746	76.704	22.747	62.268	1.00	0.00	O
ATOM	6352	CB	ILE	C	746	75.778	24.011	59.422	1.00	0.00	C
ATOM	6353	CG1	ILE	C	746	74.643	23.051	59.017	1.00	0.00	C
ATOM	6354	CG2	ILE	C	746	76.284	24.833	58.235	1.00	0.00	C
ATOM	6355	CD1	ILE	C	746	73.749	22.603	60.174	1.00	0.00	C
ATOM	6356	N	ALA	C	747	76.122	21.197	60.745	1.00	0.00	N
ATOM	6357	CA	ALA	C	747	75.649	20.286	61.743	1.00	0.00	C
ATOM	6358	C	ALA	C	747	76.788	19.993	62.660	1.00	0.00	C
ATOM	6359	O	ALA	C	747	76.621	19.926	63.876	1.00	0.00	O
ATOM	6360	CB	ALA	C	747	75.173	18.946	61.152	1.00	0.00	C
ATOM	6361	N	PHE	C	748	77.987	19.830	62.082	1.00	0.00	N
ATOM	6362	CA	PHE	C	748	79.155	19.512	62.842	1.00	0.00	C
ATOM	6363	C	PHE	C	748	79.412	20.641	63.790	1.00	0.00	C
ATOM	6364	O	PHE	C	748	79.734	20.423	64.956	1.00	0.00	O
ATOM	6365	CB	PHE	C	748	80.396	19.339	61.946	1.00	0.00	C
ATOM	6366	CG	PHE	C	748	81.564	19.012	62.807	1.00	0.00	C
ATOM	6367	CD1	PHE	C	748	81.786	17.720	63.228	1.00	0.00	C
ATOM	6368	CD2	PHE	C	748	82.447	19.998	63.184	1.00	0.00	C
ATOM	6369	CE1	PHE	C	748	82.869	17.420	64.021	1.00	0.00	C
ATOM	6370	CE2	PHE	C	748	83.531	19.702	63.975	1.00	0.00	C
ATOM	6371	CZ	PHE	C	748	83.744	18.412	64.394	1.00	0.00	C
ATOM	6372	N	LEU	C	749	79.261	21.889	63.304	1.00	0.00	N
ATOM	6373	CA	LEU	C	749	79.548	23.042	64.106	1.00	0.00	C

ATOM	6374	C	LEU	C	749	78.619	23.091	65.280	1.00	0.00	C
ATOM	6375	O	LEU	C	749	79.041	23.352	66.405	1.00	0.00	O
ATOM	6376	CB	LEU	C	749	79.404	24.355	63.321	1.00	0.00	C
ATOM	6377	CG	LEU	C	749	79.773	25.594	64.153	1.00	0.00	C
ATOM	6378	CD1	LEU	C	749	81.231	25.509	64.620	1.00	0.00	C
ATOM	6379	CD2	LEU	C	749	79.482	26.896	63.397	1.00	0.00	C
ATOM	6380	N	LEU	C	750	77.321	22.828	65.050	1.00	0.00	N
ATOM	6381	CA	LEU	C	750	76.342	22.888	66.097	1.00	0.00	C
ATOM	6382	C	LEU	C	750	76.636	21.843	67.131	1.00	0.00	C
ATOM	6383	O	LEU	C	750	76.560	22.116	68.327	1.00	0.00	O
ATOM	6384	CB	LEU	C	750	74.919	22.670	65.556	1.00	0.00	C
ATOM	6385	CG	LEU	C	750	74.342	23.910	64.841	1.00	0.00	C
ATOM	6386	CD1	LEU	C	750	75.318	24.515	63.824	1.00	0.00	C
ATOM	6387	CD2	LEU	C	750	73.004	23.566	64.177	1.00	0.00	C
ATOM	6388	N	LEU	C	751	77.001	20.623	66.698	1.00	0.00	N
ATOM	6389	CA	LEU	C	751	77.269	19.562	67.625	1.00	0.00	C
ATOM	6390	C	LEU	C	751	78.453	19.953	68.451	1.00	0.00	C
ATOM	6391	O	LEU	C	751	78.511	19.678	69.648	1.00	0.00	O
ATOM	6392	CB	LEU	C	751	77.621	18.230	66.934	1.00	0.00	C
ATOM	6393	CG	LEU	C	751	76.461	17.627	66.123	1.00	0.00	C
ATOM	6394	CD1	LEU	C	751	76.871	16.298	65.467	1.00	0.00	C
ATOM	6395	CD2	LEU	C	751	75.185	17.504	66.975	1.00	0.00	C
ATOM	6396	N	PHE	C	752	79.427	20.618	67.811	1.00	0.00	N
ATOM	6397	CA	PHE	C	752	80.652	21.030	68.428	1.00	0.00	C
ATOM	6398	C	PHE	C	752	80.331	21.987	69.538	1.00	0.00	C
ATOM	6399	O	PHE	C	752	80.872	21.879	70.634	1.00	0.00	O
ATOM	6400	CB	PHE	C	752	81.541	21.752	67.397	1.00	0.00	C
ATOM	6401	CG	PHE	C	752	82.890	22.042	67.956	1.00	0.00	C
ATOM	6402	CD1	PHE	C	752	83.866	21.073	67.957	1.00	0.00	C
ATOM	6403	CD2	PHE	C	752	83.186	23.288	68.459	1.00	0.00	C
ATOM	6404	CE1	PHE	C	752	85.114	21.335	68.464	1.00	0.00	C
ATOM	6405	CE2	PHE	C	752	84.436	23.558	68.967	1.00	0.00	C
ATOM	6406	CZ	PHE	C	752	85.403	22.581	68.967	1.00	0.00	C
ATOM	6407	N	ALA	C	753	79.435	22.956	69.269	1.00	0.00	N
ATOM	6408	CA	ALA	C	753	79.058	23.941	70.241	1.00	0.00	C
ATOM	6409	C	ALA	C	753	78.374	23.258	71.383	1.00	0.00	C
ATOM	6410	O	ALA	C	753	78.597	23.594	72.543	1.00	0.00	O
ATOM	6411	CB	ALA	C	753	78.089	24.997	69.676	1.00	0.00	C
ATOM	6412	N	TYR	C	754	77.531	22.258	71.069	1.00	0.00	N
ATOM	6413	CA	TYR	C	754	76.782	21.549	72.067	1.00	0.00	C
ATOM	6414	C	TYR	C	754	77.761	20.912	72.987	1.00	0.00	C
ATOM	6415	O	TYR	C	754	77.591	20.932	74.207	1.00	0.00	O
ATOM	6416	CB	TYR	C	754	75.916	20.429	71.457	1.00	0.00	C
ATOM	6417	CG	TYR	C	754	75.230	19.694	72.559	1.00	0.00	C

ATOM	6418	CD1 TYR C 754	74.124	20.227	73.178	1.00	0.00	C
ATOM	6419	CD2 TYR C 754	75.685	18.459	72.964	1.00	0.00	C
ATOM	6420	CE1 TYR C 754	73.488	19.547	74.189	1.00	0.00	C
ATOM	6421	CE2 TYR C 754	75.053	17.773	73.976	1.00	0.00	C
ATOM	6422	CZ TYR C 754	73.953	18.318	74.589	1.00	0.00	C
ATOM	6423	OH TYR C 754	73.303	17.618	75.629	1.00	0.00	O
ATOM	6424	N VAL C 755	78.829	20.331	72.414	1.00	0.00	N
ATOM	6425	CA VAL C 755	79.834	19.671	73.186	1.00	0.00	C
ATOM	6426	C VAL C 755	80.475	20.677	74.083	1.00	0.00	C
ATOM	6427	O VAL C 755	80.828	20.366	75.220	1.00	0.00	O
ATOM	6428	CB VAL C 755	80.915	19.074	72.339	1.00	0.00	C
ATOM	6429	CG1 VAL C 755	81.970	18.462	73.274	1.00	0.00	C
ATOM	6430	CG2 VAL C 755	80.278	18.071	71.364	1.00	0.00	C
ATOM	6431	N LEU C 756	80.641	21.923	73.599	1.00	0.00	N
ATOM	6432	CA LEU C 756	81.304	22.932	74.375	1.00	0.00	C
ATOM	6433	C LEU C 756	80.575	23.110	75.667	1.00	0.00	C
ATOM	6434	O LEU C 756	81.184	23.108	76.734	1.00	0.00	O
ATOM	6435	CB LEU C 756	81.265	24.316	73.697	1.00	0.00	C
ATOM	6436	CG LEU C 756	82.162	24.458	72.454	1.00	0.00	C
ATOM	6437	CD1 LEU C 756	82.031	25.851	71.820	1.00	0.00	C
ATOM	6438	CD2 LEU C 756	83.616	24.141	72.812	1.00	0.00	C
ATOM	6439	N LEU C 757	79.243	23.265	75.596	1.00	0.00	N
ATOM	6440	CA LEU C 757	78.461	23.486	76.776	1.00	0.00	C
ATOM	6441	C LEU C 757	78.497	22.230	77.603	1.00	0.00	C
ATOM	6442	O LEU C 757	78.599	22.269	78.826	1.00	0.00	O
ATOM	6443	CB LEU C 757	76.991	23.796	76.423	1.00	0.00	C
ATOM	6444	CG LEU C 757	76.106	24.340	77.568	1.00	0.00	C
ATOM	6445	CD1 LEU C 757	74.679	24.603	77.067	1.00	0.00	C
ATOM	6446	CD2 LEU C 757	76.126	23.458	78.824	1.00	0.00	C
ATOM	6447	N MET C 758	78.428	21.086	76.903	1.00	0.00	N
ATOM	6448	CA MET C 758	78.322	19.737	77.380	1.00	0.00	C
ATOM	6449	C MET C 758	79.557	19.268	78.102	1.00	0.00	C
ATOM	6450	O MET C 758	79.471	18.368	78.938	1.00	0.00	O
ATOM	6451	CB MET C 758	78.074	18.767	76.214	1.00	0.00	C
ATOM	6452	CG MET C 758	77.781	17.331	76.636	1.00	0.00	C
ATOM	6453	SD MET C 758	77.486	16.193	75.246	1.00	0.00	S
ATOM	6454	CE MET C 758	77.217	14.733	76.290	1.00	0.00	C
ATOM	6455	N ASP C 759	80.728	19.851	77.788	1.00	0.00	N
ATOM	6456	CA ASP C 759	82.027	19.387	78.219	1.00	0.00	C
ATOM	6457	C ASP C 759	82.057	18.930	79.649	1.00	0.00	C
ATOM	6458	O ASP C 759	81.434	19.516	80.535	1.00	0.00	O
ATOM	6459	CB ASP C 759	83.120	20.461	78.048	1.00	0.00	C
ATOM	6460	CG ASP C 759	84.492	19.806	78.133	1.00	0.00	C
ATOM	6461	OD1 ASP C 759	84.558	18.548	78.093	1.00	0.00	O

ATOM	6462	OD2 ASP C 759	85.497	20.560	78.233	1.00	0.00	O
ATOM	6463	N PHE C 760	82.787	17.814	79.878	1.00	0.00	N
ATOM	6464	CA PHE C 760	82.955	17.206	81.166	1.00	0.00	C
ATOM	6465	C PHE C 760	84.434	17.039	81.364	1.00	0.00	C
ATOM	6466	O PHE C 760	85.194	17.002	80.399	1.00	0.00	O
ATOM	6467	CB PHE C 760	82.283	15.822	81.251	1.00	0.00	C
ATOM	6468	CG PHE C 760	82.324	15.345	82.661	1.00	0.00	C
ATOM	6469	CD1 PHE C 760	81.430	15.823	83.589	1.00	0.00	C
ATOM	6470	CD2 PHE C 760	83.247	14.405	83.057	1.00	0.00	C
ATOM	6471	CE1 PHE C 760	81.464	15.381	84.891	1.00	0.00	C
ATOM	6472	CE2 PHE C 760	83.289	13.957	84.354	1.00	0.00	C
ATOM	6473	CZ PHE C 760	82.396	14.446	85.278	1.00	0.00	C
HETATM	6474	N HIE C 761	84.890	16.954	82.633	1.00	0.00	N
HETATM	6475	CA HIE C 761	86.296	16.845	82.907	1.00	0.00	C
HETATM	6476	C HIE C 761	86.749	15.451	82.629	1.00	0.00	C
HETATM	6477	O HIE C 761	85.957	14.512	82.677	1.00	0.00	O
HETATM	6478	CB HIE C 761	86.676	17.174	84.363	1.00	0.00	C
HETATM	6479	CG HIE C 761	88.161	17.209	84.577	1.00	0.00	C
HETATM	6480	CD2 HIE C 761	89.027	18.257	84.537	1.00	0.00	C
HETATM	6481	ND1 HIE C 761	88.930	16.101	84.857	1.00	0.00	N
HETATM	6482	CE1 HIE C 761	90.211	16.531	84.966	1.00	0.00	C
HETATM	6483	NE2 HIE C 761	90.320	17.833	84.781	1.00	0.00	N
ATOM	6484	N SER C 762	88.041	15.291	82.275	1.00	0.00	N
ATOM	6485	CA SER C 762	88.588	13.983	82.063	1.00	0.00	C
ATOM	6486	C SER C 762	88.200	13.524	80.699	1.00	0.00	C
ATOM	6487	O SER C 762	88.101	14.314	79.764	1.00	0.00	O
ATOM	6488	CB SER C 762	88.136	12.911	83.073	1.00	0.00	C
ATOM	6489	OG SER C 762	88.604	13.234	84.372	1.00	0.00	O
ATOM	6490	N VAL C 763	87.998	12.200	80.566	1.00	0.00	N
ATOM	6491	CA VAL C 763	87.654	11.622	79.304	1.00	0.00	C
ATOM	6492	C VAL C 763	86.313	12.138	78.891	1.00	0.00	C
ATOM	6493	O VAL C 763	85.384	12.274	79.687	1.00	0.00	O
ATOM	6494	CB VAL C 763	87.579	10.123	79.332	1.00	0.00	C
ATOM	6495	CG1 VAL C 763	86.472	9.708	80.313	1.00	0.00	C
ATOM	6496	CG2 VAL C 763	87.357	9.616	77.897	1.00	0.00	C
ATOM	6497	N PRO C 764	86.258	12.459	77.627	1.00	0.00	N
ATOM	6498	CA PRO C 764	85.041	12.962	77.039	1.00	0.00	C
ATOM	6499	C PRO C 764	84.071	11.873	76.721	1.00	0.00	C
ATOM	6500	O PRO C 764	84.449	10.703	76.737	1.00	0.00	O
ATOM	6501	CB PRO C 764	85.463	13.738	75.793	1.00	0.00	C
ATOM	6502	CG PRO C 764	86.899	14.180	76.102	1.00	0.00	C
ATOM	6503	CD PRO C 764	87.433	13.085	77.036	1.00	0.00	C
HETATM	6504	N HIE C 765	82.813	12.251	76.427	1.00	0.00	N
HETATM	6505	CA HIE C 765	81.793	11.305	76.087	1.00	0.00	C

HETATM 6506	C	HIE C 765	82.076	10.881	74.677	1.00	0.00	C
HETATM 6507	O	HIE C 765	82.845	11.528	73.966	1.00	0.00	O
HETATM 6508	CB	HIE C 765	80.373	11.897	76.179	1.00	0.00	C
HETATM 6509	CG	HIE C 765	79.305	10.862	76.390	1.00	0.00	C
HETATM 6510	CD2	HIE C 765	78.353	10.373	75.554	1.00	0.00	C
HETATM 6511	ND1	HIE C 765	79.122	10.208	77.588	1.00	0.00	N
HETATM 6512	CE1	HIE C 765	78.077	9.361	77.418	1.00	0.00	C
HETATM 6513	NE2	HIE C 765	77.576	9.426	76.197	1.00	0.00	N
ATOM 6514	N	PRO C 766	81.509	9.783	74.254	1.00	0.00	N
ATOM 6515	CA	PRO C 766	81.801	9.277	72.942	1.00	0.00	C
ATOM 6516	C	PRO C 766	81.434	10.180	71.808	1.00	0.00	C
ATOM 6517	O	PRO C 766	82.097	10.084	70.777	1.00	0.00	O
ATOM 6518	CB	PRO C 766	81.159	7.893	72.888	1.00	0.00	C
ATOM 6519	CG	PRO C 766	81.208	7.423	74.354	1.00	0.00	C
ATOM 6520	CD	PRO C 766	81.148	8.720	75.178	1.00	0.00	C
ATOM 6521	N	PRO C 767	80.433	11.007	71.905	1.00	0.00	N
ATOM 6522	CA	PRO C 767	80.149	11.868	70.791	1.00	0.00	C
ATOM 6523	C	PRO C 767	81.251	12.848	70.578	1.00	0.00	C
ATOM 6524	O	PRO C 767	81.480	13.249	69.437	1.00	0.00	O
ATOM 6525	CB	PRO C 767	78.783	12.480	71.087	1.00	0.00	C
ATOM 6526	CG	PRO C 767	78.082	11.388	71.917	1.00	0.00	C
ATOM 6527	CD	PRO C 767	79.228	10.646	72.629	1.00	0.00	C
ATOM 6528	N	GLU C 768	81.933	13.259	71.663	1.00	0.00	N
ATOM 6529	CA	GLU C 768	83.026	14.175	71.538	1.00	0.00	C
ATOM 6530	C	GLU C 768	84.109	13.480	70.788	1.00	0.00	C
ATOM 6531	O	GLU C 768	84.768	14.069	69.935	1.00	0.00	O
ATOM 6532	CB	GLU C 768	83.602	14.608	72.898	1.00	0.00	C
ATOM 6533	CG	GLU C 768	84.781	15.576	72.782	1.00	0.00	C
ATOM 6534	CD	GLU C 768	84.260	16.904	72.260	1.00	0.00	C
ATOM 6535	OE1	GLU C 768	83.466	16.880	71.279	1.00	0.00	O
ATOM 6536	OE2	GLU C 768	84.642	17.960	72.834	1.00	0.00	O
ATOM 6537	N	LEU C 769	84.308	12.183	71.088	1.00	0.00	N
ATOM 6538	CA	LEU C 769	85.330	11.424	70.433	1.00	0.00	C
ATOM 6539	C	LEU C 769	84.999	11.377	68.987	1.00	0.00	C
ATOM 6540	O	LEU C 769	85.877	11.478	68.131	1.00	0.00	O
ATOM 6541	CB	LEU C 769	85.435	9.977	70.935	1.00	0.00	C
ATOM 6542	CG	LEU C 769	85.986	9.902	72.364	1.00	0.00	C
ATOM 6543	CD1	LEU C 769	86.139	8.453	72.846	1.00	0.00	C
ATOM 6544	CD2	LEU C 769	87.283	10.719	72.464	1.00	0.00	C
ATOM 6545	N	VAL C 770	83.701	11.241	68.675	1.00	0.00	N
ATOM 6546	CA	VAL C 770	83.305	11.173	67.305	1.00	0.00	C
ATOM 6547	C	VAL C 770	83.727	12.445	66.655	1.00	0.00	C
ATOM 6548	O	VAL C 770	84.244	12.442	65.540	1.00	0.00	O
ATOM 6549	CB	VAL C 770	81.822	11.047	67.127	1.00	0.00	C

ATOM	6550	CG1 VAL C 770	81.513	11.065	65.620	1.00	0.00	C
ATOM	6551	CG2 VAL C 770	81.347	9.776	67.848	1.00	0.00	C
ATOM	6552	N LEU C 771	83.549	13.578	67.356	1.00	0.00	N
ATOM	6553	CA LEU C 771	83.884	14.852	66.794	1.00	0.00	C
ATOM	6554	C LEU C 771	85.345	14.859	66.492	1.00	0.00	C
ATOM	6555	O LEU C 771	85.773	15.410	65.479	1.00	0.00	O
ATOM	6556	CB LEU C 771	83.592	16.027	67.742	1.00	0.00	C
ATOM	6557	CG LEU C 771	82.094	16.186	68.053	1.00	0.00	C
ATOM	6558	CD1 LEU C 771	81.830	17.427	68.925	1.00	0.00	C
ATOM	6559	CD2 LEU C 771	81.251	16.180	66.766	1.00	0.00	C
ATOM	6560	N TYR C 772	86.157	14.235	67.367	1.00	0.00	N
ATOM	6561	CA TYR C 772	87.568	14.219	67.128	1.00	0.00	C
ATOM	6562	C TYR C 772	87.792	13.532	65.823	1.00	0.00	C
ATOM	6563	O TYR C 772	88.607	13.966	65.011	1.00	0.00	O
ATOM	6564	CB TYR C 772	88.363	13.462	68.205	1.00	0.00	C
ATOM	6565	CG TYR C 772	88.317	14.286	69.449	1.00	0.00	C
ATOM	6566	CD1 TYR C 772	89.147	15.374	69.581	1.00	0.00	C
ATOM	6567	CD2 TYR C 772	87.459	13.970	70.475	1.00	0.00	C
ATOM	6568	CE1 TYR C 772	89.117	16.140	70.721	1.00	0.00	C
ATOM	6569	CE2 TYR C 772	87.426	14.735	71.616	1.00	0.00	C
ATOM	6570	CZ TYR C 772	88.255	15.823	71.739	1.00	0.00	C
ATOM	6571	OH TYR C 772	88.226	16.610	72.910	1.00	0.00	O
ATOM	6572	N SER C 773	87.044	12.444	65.587	1.00	0.00	N
ATOM	6573	CA SER C 773	87.170	11.686	64.379	1.00	0.00	C
ATOM	6574	C SER C 773	86.883	12.584	63.215	1.00	0.00	C
ATOM	6575	O SER C 773	87.606	12.566	62.220	1.00	0.00	O
ATOM	6576	CB SER C 773	86.155	10.535	64.341	1.00	0.00	C
ATOM	6577	OG SER C 773	86.149	9.939	63.057	1.00	0.00	O
ATOM	6578	N LEU C 774	85.823	13.410	63.315	1.00	0.00	N
ATOM	6579	CA LEU C 774	85.473	14.288	62.235	1.00	0.00	C
ATOM	6580	C LEU C 774	86.587	15.259	62.010	1.00	0.00	C
ATOM	6581	O LEU C 774	86.896	15.607	60.873	1.00	0.00	O
ATOM	6582	CB LEU C 774	84.182	15.095	62.472	1.00	0.00	C
ATOM	6583	CG LEU C 774	82.882	14.279	62.316	1.00	0.00	C
ATOM	6584	CD1 LEU C 774	82.679	13.834	60.858	1.00	0.00	C
ATOM	6585	CD2 LEU C 774	82.818	13.102	63.298	1.00	0.00	C
ATOM	6586	N VAL C 775	87.229	15.726	63.091	1.00	0.00	N
ATOM	6587	CA VAL C 775	88.307	16.659	62.932	1.00	0.00	C
ATOM	6588	C VAL C 775	89.355	15.978	62.117	1.00	0.00	C
ATOM	6589	O VAL C 775	89.979	16.590	61.248	1.00	0.00	O
ATOM	6590	CB VAL C 775	88.925	17.041	64.246	1.00	0.00	C
ATOM	6591	CG1 VAL C 775	90.147	17.929	63.975	1.00	0.00	C
ATOM	6592	CG2 VAL C 775	87.846	17.714	65.115	1.00	0.00	C
ATOM	6593	N PHE C 776	89.564	14.677	62.378	1.00	0.00	N

ATOM	6594	CA	PHE	C	776	90.549	13.908	61.682	1.00	0.00	C
ATOM	6595	C	PHE	C	776	90.217	13.871	60.225	1.00	0.00	C
ATOM	6596	O	PHE	C	776	91.097	14.059	59.386	1.00	0.00	O
ATOM	6597	CB	PHE	C	776	90.609	12.448	62.166	1.00	0.00	C
ATOM	6598	CG	PHE	C	776	91.465	11.685	61.213	1.00	0.00	C
ATOM	6599	CD1	PHE	C	776	92.837	11.764	61.270	1.00	0.00	C
ATOM	6600	CD2	PHE	C	776	90.886	10.878	60.259	1.00	0.00	C
ATOM	6601	CE1	PHE	C	776	93.615	11.053	60.387	1.00	0.00	C
ATOM	6602	CE2	PHE	C	776	91.659	10.165	59.371	1.00	0.00	C
ATOM	6603	CZ	PHE	C	776	93.028	10.254	59.435	1.00	0.00	C
ATOM	6604	N	VAL	C	777	88.939	13.642	59.874	1.00	0.00	N
ATOM	6605	CA	VAL	C	777	88.618	13.536	58.477	1.00	0.00	C
ATOM	6606	C	VAL	C	777	88.923	14.838	57.813	1.00	0.00	C
ATOM	6607	O	VAL	C	777	89.447	14.875	56.701	1.00	0.00	O
ATOM	6608	CB	VAL	C	777	87.186	13.175	58.194	1.00	0.00	C
ATOM	6609	CG1	VAL	C	777	86.276	14.372	58.511	1.00	0.00	C
ATOM	6610	CG2	VAL	C	777	87.091	12.703	56.734	1.00	0.00	C
ATOM	6611	N	LEU	C	778	88.615	15.962	58.485	1.00	0.00	N
ATOM	6612	CA	LEU	C	778	88.850	17.250	57.905	1.00	0.00	C
ATOM	6613	C	LEU	C	778	90.322	17.404	57.709	1.00	0.00	C
ATOM	6614	O	LEU	C	778	90.774	17.943	56.699	1.00	0.00	O
ATOM	6615	CB	LEU	C	778	88.379	18.391	58.820	1.00	0.00	C
ATOM	6616	CG	LEU	C	778	86.875	18.330	59.145	1.00	0.00	C
ATOM	6617	CD1	LEU	C	778	86.440	19.510	60.024	1.00	0.00	C
ATOM	6618	CD2	LEU	C	778	86.032	18.184	57.868	1.00	0.00	C
ATOM	6619	N	PHE	C	779	91.114	16.922	58.682	1.00	0.00	N
ATOM	6620	CA	PHE	C	779	92.539	17.058	58.628	1.00	0.00	C
ATOM	6621	C	PHE	C	779	93.070	16.349	57.425	1.00	0.00	C
ATOM	6622	O	PHE	C	779	93.865	16.907	56.670	1.00	0.00	O
ATOM	6623	CB	PHE	C	779	93.240	16.455	59.855	1.00	0.00	C
ATOM	6624	CG	PHE	C	779	94.700	16.658	59.654	1.00	0.00	C
ATOM	6625	CD1	PHE	C	779	95.286	17.862	59.971	1.00	0.00	C
ATOM	6626	CD2	PHE	C	779	95.478	15.642	59.152	1.00	0.00	C
ATOM	6627	CE1	PHE	C	779	96.633	18.046	59.782	1.00	0.00	C
ATOM	6628	CE2	PHE	C	779	96.826	15.821	58.962	1.00	0.00	C
ATOM	6629	CZ	PHE	C	779	97.405	17.026	59.279	1.00	0.00	C
ATOM	6630	N	CYS	C	780	92.638	15.094	57.200	1.00	0.00	N
ATOM	6631	CA	CYS	C	780	93.185	14.357	56.097	1.00	0.00	C
ATOM	6632	C	CYS	C	780	92.809	15.027	54.811	1.00	0.00	C
ATOM	6633	O	CYS	C	780	93.612	15.107	53.886	1.00	0.00	O
ATOM	6634	CB	CYS	C	780	92.730	12.884	56.038	1.00	0.00	C
ATOM	6635	SG	CYS	C	780	90.962	12.666	55.686	1.00	0.00	S
ATOM	6636	N	ASP	C	781	91.569	15.537	54.713	1.00	0.00	N
ATOM	6637	CA	ASP	C	781	91.148	16.154	53.488	1.00	0.00	C

ATOM	6638	C	ASP C 781	91.994	17.356	53.225	1.00	0.00	C
ATOM	6639	O	ASP C 781	92.488	17.548	52.112	1.00	0.00	O
ATOM	6640	CB	ASP C 781	89.687	16.636	53.544	1.00	0.00	C
ATOM	6641	CG	ASP C 781	89.290	17.186	52.178	1.00	0.00	C
ATOM	6642	OD1	ASP C 781	90.124	17.100	51.234	1.00	0.00	O
ATOM	6643	OD2	ASP C 781	88.148	17.704	52.061	1.00	0.00	O
HETATM	6644	N	GU1 C 782	92.186	18.201	54.273	1.00	0.00	N
HETATM	6645	CA	GU1 C 782	92.937	19.427	54.025	1.00	0.00	C
HETATM	6646	C	GU1 C 782	94.370	19.120	53.662	1.00	0.00	C
HETATM	6647	O	GU1 C 782	94.918	19.806	52.841	1.00	0.00	O
HETATM	6648	CB	GU1 C 782	92.878	20.344	55.280	1.00	0.00	C
HETATM	6649	CG	GU1 C 782	91.489	20.995	55.579	1.00	0.00	C
HETATM	6650	CD	GU1 C 782	90.563	21.288	54.413	1.00	0.00	C
HETATM	6651	OE1	GU1 C 782	89.519	20.630	54.243	1.00	0.00	O
HETATM	6652	OE2	GU1 C 782	90.900	22.221	53.655	1.00	0.00	O1-
ATOM	6653	N	VAL C 783	94.943	18.096	54.307	1.00	0.00	N
ATOM	6654	CA	VAL C 783	96.305	17.789	53.988	1.00	0.00	C
ATOM	6655	C	VAL C 783	96.382	17.357	52.559	1.00	0.00	C
ATOM	6656	O	VAL C 783	97.351	17.668	51.865	1.00	0.00	O
ATOM	6657	CB	VAL C 783	96.946	16.772	54.895	1.00	0.00	C
ATOM	6658	CG1	VAL C 783	97.077	17.420	56.279	1.00	0.00	C
ATOM	6659	CG2	VAL C 783	96.119	15.479	54.922	1.00	0.00	C
ATOM	6660	N	ARG C 784	95.363	16.629	52.069	1.00	0.00	N
ATOM	6661	CA	ARG C 784	95.392	16.206	50.700	1.00	0.00	C
ATOM	6662	C	ARG C 784	95.401	17.419	49.823	1.00	0.00	C
ATOM	6663	O	ARG C 784	96.146	17.483	48.847	1.00	0.00	O
ATOM	6664	CB	ARG C 784	94.181	15.358	50.284	1.00	0.00	C
ATOM	6665	CG	ARG C 784	94.197	15.017	48.795	1.00	0.00	C
ATOM	6666	CD	ARG C 784	95.387	14.147	48.386	1.00	0.00	C
ATOM	6667	NE	ARG C 784	95.437	14.124	46.895	1.00	0.00	N
ATOM	6668	CZ	ARG C 784	96.426	13.435	46.257	1.00	0.00	C
ATOM	6669	NH1	ARG C 784	97.332	12.719	46.983	1.00	0.00	N
ATOM	6670	NH2	ARG C 784	96.508	13.461	44.897	1.00	0.00	N
HETATM	6671	N	GN1 C 785	94.576	18.422	50.167	1.00	0.00	N
HETATM	6672	CA	GN1 C 785	94.464	19.632	49.401	1.00	0.00	C
HETATM	6673	C	GN1 C 785	95.788	20.321	49.452	1.00	0.00	C
HETATM	6674	O	GN1 C 785	96.247	20.899	48.469	1.00	0.00	O
HETATM	6675	CB	GN1 C 785	93.411	20.588	49.996	1.00	0.00	C
HETATM	6676	CG	GN1 C 785	93.269	21.916	49.255	1.00	0.00	C
HETATM	6677	CD	GN1 C 785	91.970	22.560	49.720	1.00	0.00	C
HETATM	6678	NE2	GN1 C 785	90.850	22.253	49.013	1.00	0.00	N
HETATM	6679	OE1	GN1 C 785	91.950	23.319	50.689	1.00	0.00	O
ATOM	6680	N	TRP C 786	96.451	20.251	50.616	1.00	0.00	N
ATOM	6681	CA	TRP C 786	97.722	20.880	50.812	1.00	0.00	C

ATOM	6682	C	TRP	C	786	98.656	20.280	49.813	1.00	0.00	C
ATOM	6683	O	TRP	C	786	99.439	20.978	49.172	1.00	0.00	O
ATOM	6684	CB	TRP	C	786	98.283	20.565	52.210	1.00	0.00	C
ATOM	6685	CG	TRP	C	786	99.585	21.241	52.578	1.00	0.00	C
ATOM	6686	CD1	TRP	C	786	100.866	20.881	52.278	1.00	0.00	C
ATOM	6687	CD2	TRP	C	786	99.674	22.399	53.425	1.00	0.00	C
ATOM	6688	CE2	TRP	C	786	101.027	22.682	53.593	1.00	0.00	C
ATOM	6689	CE3	TRP	C	786	98.708	23.151	54.026	1.00	0.00	C
ATOM	6690	NE1	TRP	C	786	101.749	21.747	52.883	1.00	0.00	N
ATOM	6691	CZ2	TRP	C	786	101.436	23.728	54.371	1.00	0.00	C
ATOM	6692	CZ3	TRP	C	786	99.121	24.218	54.793	1.00	0.00	C
ATOM	6693	CH2	TRP	C	786	100.460	24.499	54.962	1.00	0.00	C
ATOM	6694	N	TYR	C	787	98.583	18.947	49.655	1.00	0.00	N
ATOM	6695	CA	TYR	C	787	99.453	18.239	48.766	1.00	0.00	C
ATOM	6696	C	TYR	C	787	99.223	18.656	47.349	1.00	0.00	C
ATOM	6697	O	TYR	C	787	100.178	18.833	46.594	1.00	0.00	O
ATOM	6698	CB	TYR	C	787	99.265	16.713	48.824	1.00	0.00	C
ATOM	6699	CG	TYR	C	787	100.126	16.131	47.754	1.00	0.00	C
ATOM	6700	CD1	TYR	C	787	101.486	16.014	47.932	1.00	0.00	C
ATOM	6701	CD2	TYR	C	787	99.570	15.696	46.573	1.00	0.00	C
ATOM	6702	CE1	TYR	C	787	102.277	15.477	46.940	1.00	0.00	C
ATOM	6703	CE2	TYR	C	787	100.356	15.158	45.579	1.00	0.00	C
ATOM	6704	CZ	TYR	C	787	101.713	15.048	45.764	1.00	0.00	C
ATOM	6705	OH	TYR	C	787	102.522	14.497	44.748	1.00	0.00	O
ATOM	6706	N	VAL	C	788	97.954	18.836	46.940	1.00	0.00	N
ATOM	6707	CA	VAL	C	788	97.695	19.071	45.550	1.00	0.00	C
ATOM	6708	C	VAL	C	788	98.396	20.309	45.072	1.00	0.00	C
ATOM	6709	O	VAL	C	788	99.047	20.274	44.031	1.00	0.00	O
ATOM	6710	CB	VAL	C	788	96.232	19.198	45.210	1.00	0.00	C
ATOM	6711	CG1	VAL	C	788	95.525	17.901	45.638	1.00	0.00	C
ATOM	6712	CG2	VAL	C	788	95.651	20.479	45.830	1.00	0.00	C
ATOM	6713	N	ASN	C	789	98.310	21.440	45.804	1.00	0.00	N
ATOM	6714	CA	ASN	C	789	98.953	22.617	45.282	1.00	0.00	C
ATOM	6715	C	ASN	C	789	100.027	23.037	46.231	1.00	0.00	C
ATOM	6716	O	ASN	C	789	99.753	23.297	47.401	1.00	0.00	O
ATOM	6717	CB	ASN	C	789	97.998	23.812	45.117	1.00	0.00	C
ATOM	6718	CG	ASN	C	789	97.020	23.481	43.999	1.00	0.00	C
ATOM	6719	ND2	ASN	C	789	95.704	23.706	44.257	1.00	0.00	N
ATOM	6720	OD1	ASN	C	789	97.415	23.026	42.928	1.00	0.00	O
ATOM	6721	N	GLY	C	790	101.294	23.063	45.767	1.00	0.00	N
ATOM	6722	CA	GLY	C	790	102.325	23.486	46.668	1.00	0.00	C
ATOM	6723	C	GLY	C	790	102.234	24.956	46.958	1.00	0.00	C
ATOM	6724	O	GLY	C	790	102.073	25.350	48.111	1.00	0.00	O
ATOM	6725	N	VAL	C	791	102.352	25.804	45.911	1.00	0.00	N

ATOM	6726	CA	VAL	C	791	102.335	27.239	46.050	1.00	0.00	C
ATOM	6727	C	VAL	C	791	100.953	27.783	46.207	1.00	0.00	C
ATOM	6728	O	VAL	C	791	100.691	28.625	47.066	1.00	0.00	O
ATOM	6729	CB	VAL	C	791	102.936	27.944	44.870	1.00	0.00	C
ATOM	6730	CG1	VAL	C	791	102.755	29.461	45.065	1.00	0.00	C
ATOM	6731	CG2	VAL	C	791	104.403	27.501	44.731	1.00	0.00	C
ATOM	6732	N	ASN	C	792	100.028	27.282	45.370	1.00	0.00	N
ATOM	6733	CA	ASN	C	792	98.710	27.828	45.270	1.00	0.00	C
ATOM	6734	C	ASN	C	792	98.011	27.687	46.580	1.00	0.00	C
ATOM	6735	O	ASN	C	792	97.249	28.559	46.986	1.00	0.00	O
ATOM	6736	CB	ASN	C	792	97.852	27.135	44.197	1.00	0.00	C
ATOM	6737	CG	ASN	C	792	96.658	28.032	43.905	1.00	0.00	C
ATOM	6738	ND2	ASN	C	792	96.445	28.344	42.598	1.00	0.00	N
ATOM	6739	OD1	ASN	C	792	95.942	28.456	44.810	1.00	0.00	O
ATOM	6740	N	TYR	C	793	98.246	26.578	47.283	1.00	0.00	N
ATOM	6741	CA	TYR	C	793	97.568	26.379	48.528	1.00	0.00	C
ATOM	6742	C	TYR	C	793	97.990	27.477	49.459	1.00	0.00	C
ATOM	6743	O	TYR	C	793	97.164	28.105	50.116	1.00	0.00	O
ATOM	6744	CB	TYR	C	793	97.958	25.040	49.174	1.00	0.00	C
ATOM	6745	CG	TYR	C	793	97.094	24.799	50.364	1.00	0.00	C
ATOM	6746	CD1	TYR	C	793	95.849	24.236	50.212	1.00	0.00	C
ATOM	6747	CD2	TYR	C	793	97.524	25.128	51.629	1.00	0.00	C
ATOM	6748	CE1	TYR	C	793	95.041	24.001	51.300	1.00	0.00	C
ATOM	6749	CE2	TYR	C	793	96.721	24.895	52.722	1.00	0.00	C
ATOM	6750	CZ	TYR	C	793	95.478	24.330	52.559	1.00	0.00	C
ATOM	6751	OH	TYR	C	793	94.653	24.085	53.676	1.00	0.00	O
ATOM	6752	N	PHE	C	794	99.299	27.763	49.511	1.00	0.00	N
ATOM	6753	CA	PHE	C	794	99.821	28.765	50.395	1.00	0.00	C
ATOM	6754	C	PHE	C	794	99.344	30.120	49.997	1.00	0.00	C
ATOM	6755	O	PHE	C	794	99.162	30.982	50.854	1.00	0.00	O
ATOM	6756	CB	PHE	C	794	101.357	28.849	50.425	1.00	0.00	C
ATOM	6757	CG	PHE	C	794	101.881	27.661	51.146	1.00	0.00	C
ATOM	6758	CD1	PHE	C	794	101.743	27.556	52.510	1.00	0.00	C
ATOM	6759	CD2	PHE	C	794	102.532	26.666	50.462	1.00	0.00	C
ATOM	6760	CE1	PHE	C	794	102.235	26.458	53.176	1.00	0.00	C
ATOM	6761	CE2	PHE	C	794	103.030	25.567	51.119	1.00	0.00	C
ATOM	6762	CZ	PHE	C	794	102.877	25.462	52.481	1.00	0.00	C
ATOM	6763	N	THR	C	795	99.147	30.364	48.690	1.00	0.00	N
ATOM	6764	CA	THR	C	795	98.842	31.699	48.273	1.00	0.00	C
ATOM	6765	C	THR	C	795	97.607	32.209	48.960	1.00	0.00	C
ATOM	6766	O	THR	C	795	97.617	33.320	49.486	1.00	0.00	O
ATOM	6767	CB	THR	C	795	98.671	31.842	46.785	1.00	0.00	C
ATOM	6768	CG2	THR	C	795	97.361	31.201	46.316	1.00	0.00	C
ATOM	6769	OG1	THR	C	795	98.649	33.213	46.451	1.00	0.00	O

ATOM	6770	N	ASP C 796	96.512	31.424	48.997	1.00	0.00	N
ATOM	6771	CA	ASP C 796	95.322	31.893	49.652	1.00	0.00	C
ATOM	6772	C	ASP C 796	95.593	31.866	51.122	1.00	0.00	C
ATOM	6773	O	ASP C 796	96.254	30.961	51.632	1.00	0.00	O
ATOM	6774	CB	ASP C 796	94.100	30.995	49.356	1.00	0.00	C
ATOM	6775	CG	ASP C 796	92.805	31.691	49.766	1.00	0.00	C
ATOM	6776	OD1	ASP C 796	92.791	32.385	50.815	1.00	0.00	O
ATOM	6777	OD2	ASP C 796	91.801	31.533	49.019	1.00	0.00	O
ATOM	6778	N	LEU C 797	95.138	32.906	51.839	1.00	0.00	N
ATOM	6779	CA	LEU C 797	95.299	32.991	53.261	1.00	0.00	C
ATOM	6780	C	LEU C 797	94.392	32.021	53.954	1.00	0.00	C
ATOM	6781	O	LEU C 797	94.775	31.380	54.929	1.00	0.00	O
ATOM	6782	CB	LEU C 797	94.952	34.395	53.784	1.00	0.00	C
ATOM	6783	CG	LEU C 797	95.869	35.495	53.217	1.00	0.00	C
ATOM	6784	CD1	LEU C 797	95.494	36.879	53.761	1.00	0.00	C
ATOM	6785	CD2	LEU C 797	97.350	35.151	53.440	1.00	0.00	C
ATOM	6786	N	TRP C 798	93.152	31.889	53.462	1.00	0.00	N
ATOM	6787	CA	TRP C 798	92.163	31.111	54.153	1.00	0.00	C
ATOM	6788	C	TRP C 798	92.535	29.671	54.214	1.00	0.00	C
ATOM	6789	O	TRP C 798	92.405	29.044	55.265	1.00	0.00	O
ATOM	6790	CB	TRP C 798	90.769	31.257	53.522	1.00	0.00	C
ATOM	6791	CG	TRP C 798	90.243	32.667	53.665	1.00	0.00	C
ATOM	6792	CD1	TRP C 798	90.221	33.684	52.756	1.00	0.00	C
ATOM	6793	CD2	TRP C 798	89.692	33.194	54.880	1.00	0.00	C
ATOM	6794	CE2	TRP C 798	89.361	34.527	54.640	1.00	0.00	C
ATOM	6795	CE3	TRP C 798	89.484	32.615	56.100	1.00	0.00	C
ATOM	6796	NE1	TRP C 798	89.689	34.815	53.332	1.00	0.00	N
ATOM	6797	CZ2	TRP C 798	88.815	35.307	55.622	1.00	0.00	C
ATOM	6798	CZ3	TRP C 798	88.928	33.402	57.086	1.00	0.00	C
ATOM	6799	CH2	TRP C 798	88.601	34.722	56.850	1.00	0.00	C
HETATM	6800	N	ANI C 799	93.023	29.097	53.065	1.00	0.00	N
HETATM	6801	CA	ANI C 799	93.260	27.665	53.229	1.00	0.00	C
HETATM	6802	C	ANI C 799	94.421	27.412	54.161	1.00	0.00	C
HETATM	6803	O	ANI C 799	94.392	26.382	54.823	1.00	0.00	O
HETATM	6804	CB	ANI C 799	93.518	27.019	51.838	1.00	0.00	C
HETATM	6805	CG	ANI C 799	92.298	26.799	50.936	1.00	0.00	C
HETATM	6806	ND2	ANI C 799	92.000	27.706	50.047	1.00	0.00	N
HETATM	6807	OD1	ANI C 799	91.609	25.794	51.009	1.00	0.00	O
ATOM	6808	N	VAL C 800	95.387	28.331	54.321	1.00	0.00	N
ATOM	6809	CA	VAL C 800	96.375	28.095	55.337	1.00	0.00	C
ATOM	6810	C	VAL C 800	95.739	28.275	56.685	1.00	0.00	C
ATOM	6811	O	VAL C 800	96.091	27.594	57.646	1.00	0.00	O
ATOM	6812	CB	VAL C 800	97.611	28.954	55.246	1.00	0.00	C
ATOM	6813	CG1	VAL C 800	98.282	28.692	53.887	1.00	0.00	C

ATOM	6814	CG2 VAL C 800	97.263	30.424	55.516	1.00	0.00	C
ATOM	6815	N MET C 801	94.772	29.207	56.796	1.00	0.00	N
ATOM	6816	CA MET C 801	94.142	29.493	58.055	1.00	0.00	C
ATOM	6817	C MET C 801	93.444	28.273	58.565	1.00	0.00	C
ATOM	6818	O MET C 801	93.483	27.987	59.760	1.00	0.00	O
ATOM	6819	CB MET C 801	93.086	30.610	57.970	1.00	0.00	C
ATOM	6820	CG MET C 801	92.275	30.766	59.259	1.00	0.00	C
ATOM	6821	SD MET C 801	93.203	31.395	60.688	1.00	0.00	S
ATOM	6822	CE MET C 801	93.186	33.120	60.128	1.00	0.00	C
HETATM	6823	N AP1 C 802	92.782	27.520	57.673	1.00	0.00	N
HETATM	6824	CA AP1 C 802	92.047	26.365	58.098	1.00	0.00	C
HETATM	6825	C AP1 C 802	92.991	25.369	58.702	1.00	0.00	C
HETATM	6826	O AP1 C 802	92.684	24.753	59.722	1.00	0.00	O
HETATM	6827	CB AP1 C 802	91.319	25.672	56.936	1.00	0.00	C
HETATM	6828	CG AP1 C 802	91.080	26.686	55.826	1.00	0.00	C
HETATM	6829	OD1 AP1 C 802	90.734	27.856	56.142	1.00	0.00	O1-
HETATM	6830	OD2 AP1 C 802	91.236	26.301	54.638	1.00	0.00	O
ATOM	6831	N THR C 803	94.173	25.180	58.087	1.00	0.00	N
ATOM	6832	CA THR C 803	95.108	24.220	58.600	1.00	0.00	C
ATOM	6833	C THR C 803	95.572	24.668	59.948	1.00	0.00	C
ATOM	6834	O THR C 803	95.714	23.865	60.865	1.00	0.00	O
ATOM	6835	CB THR C 803	96.328	24.034	57.738	1.00	0.00	C
ATOM	6836	CG2 THR C 803	95.883	23.652	56.319	1.00	0.00	C
ATOM	6837	OG1 THR C 803	97.100	25.226	57.705	1.00	0.00	O
ATOM	6838	N LEU C 804	95.815	25.982	60.099	1.00	0.00	N
ATOM	6839	CA LEU C 804	96.322	26.493	61.341	1.00	0.00	C
ATOM	6840	C LEU C 804	95.297	26.219	62.396	1.00	0.00	C
ATOM	6841	O LEU C 804	95.634	25.778	63.493	1.00	0.00	O
ATOM	6842	CB LEU C 804	96.573	28.016	61.273	1.00	0.00	C
ATOM	6843	CG LEU C 804	97.303	28.673	62.470	1.00	0.00	C
ATOM	6844	CD1 LEU C 804	97.466	30.184	62.229	1.00	0.00	C
ATOM	6845	CD2 LEU C 804	96.643	28.394	63.831	1.00	0.00	C
ATOM	6846	N GLY C 805	94.011	26.464	62.087	1.00	0.00	N
ATOM	6847	CA GLY C 805	92.980	26.287	63.066	1.00	0.00	C
ATOM	6848	C GLY C 805	92.896	24.847	63.464	1.00	0.00	C
ATOM	6849	O GLY C 805	92.735	24.528	64.642	1.00	0.00	O
ATOM	6850	N LEU C 806	92.989	23.934	62.481	1.00	0.00	N
ATOM	6851	CA LEU C 806	92.865	22.527	62.742	1.00	0.00	C
ATOM	6852	C LEU C 806	94.007	22.102	63.603	1.00	0.00	C
ATOM	6853	O LEU C 806	93.840	21.305	64.523	1.00	0.00	O
ATOM	6854	CB LEU C 806	92.912	21.690	61.446	1.00	0.00	C
ATOM	6855	CG LEU C 806	92.590	20.188	61.603	1.00	0.00	C
ATOM	6856	CD1 LEU C 806	93.641	19.430	62.430	1.00	0.00	C
ATOM	6857	CD2 LEU C 806	91.156	19.989	62.120	1.00	0.00	C

ATOM	6858	N	PHE	C	807	95.207	22.635	63.317	1.00	0.00	N
ATOM	6859	CA	PHE	C	807	96.388	22.261	64.041	1.00	0.00	C
ATOM	6860	C	PHE	C	807	96.236	22.681	65.471	1.00	0.00	C
ATOM	6861	O	PHE	C	807	96.551	21.921	66.385	1.00	0.00	O
ATOM	6862	CB	PHE	C	807	97.654	22.937	63.494	1.00	0.00	C
ATOM	6863	CG	PHE	C	807	98.803	22.470	64.320	1.00	0.00	C
ATOM	6864	CD1	PHE	C	807	99.376	21.242	64.081	1.00	0.00	C
ATOM	6865	CD2	PHE	C	807	99.307	23.259	65.327	1.00	0.00	C
ATOM	6866	CE1	PHE	C	807	100.436	20.808	64.841	1.00	0.00	C
ATOM	6867	CE2	PHE	C	807	100.367	22.830	66.088	1.00	0.00	C
ATOM	6868	CZ	PHE	C	807	100.931	21.602	65.847	1.00	0.00	C
ATOM	6869	N	TYR	C	808	95.734	23.908	65.692	1.00	0.00	N
ATOM	6870	CA	TYR	C	808	95.601	24.445	67.015	1.00	0.00	C
ATOM	6871	C	TYR	C	808	94.629	23.592	67.769	1.00	0.00	C
ATOM	6872	O	TYR	C	808	94.813	23.319	68.953	1.00	0.00	O
ATOM	6873	CB	TYR	C	808	95.102	25.901	67.008	1.00	0.00	C
ATOM	6874	CG	TYR	C	808	95.139	26.419	68.408	1.00	0.00	C
ATOM	6875	CD1	TYR	C	808	96.344	26.648	69.031	1.00	0.00	C
ATOM	6876	CD2	TYR	C	808	93.976	26.707	69.082	1.00	0.00	C
ATOM	6877	CE1	TYR	C	808	96.392	27.130	70.317	1.00	0.00	C
ATOM	6878	CE2	TYR	C	808	94.016	27.190	70.369	1.00	0.00	C
ATOM	6879	CZ	TYR	C	808	95.226	27.401	70.989	1.00	0.00	C
ATOM	6880	OH	TYR	C	808	95.265	27.896	72.309	1.00	0.00	O
ATOM	6881	N	PHE	C	809	93.559	23.150	67.087	1.00	0.00	N
ATOM	6882	CA	PHE	C	809	92.548	22.327	67.687	1.00	0.00	C
ATOM	6883	C	PHE	C	809	93.185	21.039	68.102	1.00	0.00	C
ATOM	6884	O	PHE	C	809	92.903	20.509	69.178	1.00	0.00	O
ATOM	6885	CB	PHE	C	809	91.420	22.005	66.693	1.00	0.00	C
ATOM	6886	CG	PHE	C	809	90.381	21.200	67.389	1.00	0.00	C
ATOM	6887	CD1	PHE	C	809	89.431	21.820	68.161	1.00	0.00	C
ATOM	6888	CD2	PHE	C	809	90.347	19.832	67.259	1.00	0.00	C
ATOM	6889	CE1	PHE	C	809	88.464	21.085	68.801	1.00	0.00	C
ATOM	6890	CE2	PHE	C	809	89.380	19.091	67.897	1.00	0.00	C
ATOM	6891	CZ	PHE	C	809	88.436	19.717	68.674	1.00	0.00	C
ATOM	6892	N	ILE	C	810	94.081	20.504	67.253	1.00	0.00	N
ATOM	6893	CA	ILE	C	810	94.740	19.261	67.532	1.00	0.00	C
ATOM	6894	C	ILE	C	810	95.510	19.452	68.795	1.00	0.00	C
ATOM	6895	O	ILE	C	810	95.502	18.595	69.677	1.00	0.00	O
ATOM	6896	CB	ILE	C	810	95.758	18.904	66.483	1.00	0.00	C
ATOM	6897	CG1	ILE	C	810	95.125	18.791	65.087	1.00	0.00	C
ATOM	6898	CG2	ILE	C	810	96.467	17.623	66.952	1.00	0.00	C
ATOM	6899	CD1	ILE	C	810	94.115	17.657	64.939	1.00	0.00	C
ATOM	6900	N	ALA	C	811	96.199	20.601	68.910	1.00	0.00	N
ATOM	6901	CA	ALA	C	811	97.009	20.870	70.061	1.00	0.00	C

ATOM	6902	C	ALA C 811	96.121	20.890	71.260	1.00	0.00	C
ATOM	6903	O	ALA C 811	96.459	20.340	72.308	1.00	0.00	O
ATOM	6904	CB	ALA C 811	97.710	22.236	69.984	1.00	0.00	C
ATOM	6905	N	GLY C 812	94.933	21.503	71.139	1.00	0.00	N
ATOM	6906	CA	GLY C 812	94.061	21.599	72.270	1.00	0.00	C
ATOM	6907	C	GLY C 812	93.696	20.220	72.707	1.00	0.00	C
ATOM	6908	O	GLY C 812	93.587	19.952	73.903	1.00	0.00	O
ATOM	6909	N	ILE C 813	93.477	19.310	71.742	1.00	0.00	N
ATOM	6910	CA	ILE C 813	93.080	17.972	72.065	1.00	0.00	C
ATOM	6911	C	ILE C 813	94.173	17.302	72.835	1.00	0.00	C
ATOM	6912	O	ILE C 813	93.915	16.642	73.840	1.00	0.00	O
ATOM	6913	CB	ILE C 813	92.790	17.141	70.852	1.00	0.00	C
ATOM	6914	CG1	ILE C 813	91.629	17.756	70.051	1.00	0.00	C
ATOM	6915	CG2	ILE C 813	92.519	15.698	71.313	1.00	0.00	C
ATOM	6916	CD1	ILE C 813	91.452	17.142	68.664	1.00	0.00	C
ATOM	6917	N	VAL C 814	95.433	17.456	72.386	1.00	0.00	N
ATOM	6918	CA	VAL C 814	96.525	16.790	73.040	1.00	0.00	C
ATOM	6919	C	VAL C 814	96.683	17.326	74.433	1.00	0.00	C
ATOM	6920	O	VAL C 814	96.929	16.575	75.374	1.00	0.00	O
ATOM	6921	CB	VAL C 814	97.831	16.932	72.312	1.00	0.00	C
ATOM	6922	CG1	VAL C 814	98.355	18.369	72.447	1.00	0.00	C
ATOM	6923	CG2	VAL C 814	98.796	15.869	72.854	1.00	0.00	C
ATOM	6924	N	PHE C 815	96.530	18.653	74.588	1.00	0.00	N
ATOM	6925	CA	PHE C 815	96.679	19.360	75.830	1.00	0.00	C
ATOM	6926	C	PHE C 815	95.592	19.007	76.797	1.00	0.00	C
ATOM	6927	O	PHE C 815	95.803	19.086	78.006	1.00	0.00	O
ATOM	6928	CB	PHE C 815	96.681	20.894	75.686	1.00	0.00	C
ATOM	6929	CG	PHE C 815	98.025	21.323	75.211	1.00	0.00	C
ATOM	6930	CD1	PHE C 815	99.075	21.403	76.101	1.00	0.00	C
ATOM	6931	CD2	PHE C 815	98.247	21.670	73.899	1.00	0.00	C
ATOM	6932	CE1	PHE C 815	100.322	21.803	75.681	1.00	0.00	C
ATOM	6933	CE2	PHE C 815	99.491	22.069	73.471	1.00	0.00	C
ATOM	6934	CZ	PHE C 815	100.531	22.135	74.366	1.00	0.00	C
ATOM	6935	N	ARG C 816	94.390	18.645	76.317	1.00	0.00	N
ATOM	6936	CA	ARG C 816	93.316	18.443	77.251	1.00	0.00	C
ATOM	6937	C	ARG C 816	93.665	17.385	78.253	1.00	0.00	C
ATOM	6938	O	ARG C 816	93.413	17.556	79.442	1.00	0.00	O
ATOM	6939	CB	ARG C 816	91.983	18.011	76.620	1.00	0.00	C
ATOM	6940	CG	ARG C 816	90.898	17.854	77.693	1.00	0.00	C
ATOM	6941	CD	ARG C 816	89.574	17.274	77.194	1.00	0.00	C
ATOM	6942	NE	ARG C 816	88.994	18.240	76.223	1.00	0.00	N
ATOM	6943	CZ	ARG C 816	87.642	18.265	76.036	1.00	0.00	C
ATOM	6944	NH1	ARG C 816	86.839	17.463	76.793	1.00	0.00	N
ATOM	6945	NH2	ARG C 816	87.095	19.087	75.094	1.00	0.00	N

ATOM	6946	N	LEU	C	817	94.262	16.268	77.800	1.00	0.00	N
ATOM	6947	CA	LEU	C	817	94.591	15.158	78.654	1.00	0.00	C
ATOM	6948	C	LEU	C	817	95.631	15.594	79.646	1.00	0.00	C
ATOM	6949	O	LEU	C	817	95.609	15.170	80.803	1.00	0.00	O
ATOM	6950	CB	LEU	C	817	95.125	13.956	77.838	1.00	0.00	C
ATOM	6951	CG	LEU	C	817	95.341	12.619	78.588	1.00	0.00	C
ATOM	6952	CD1	LEU	C	817	95.808	11.531	77.608	1.00	0.00	C
ATOM	6953	CD2	LEU	C	817	96.309	12.732	79.776	1.00	0.00	C
HETATM	6954	N	HIE	C	818	96.544	16.491	79.234	1.00	0.00	N
HETATM	6955	CA	HIE	C	818	97.688	16.855	80.030	1.00	0.00	C
HETATM	6956	C	HIE	C	818	97.283	17.354	81.386	1.00	0.00	C
HETATM	6957	O	HIE	C	818	97.851	16.920	82.391	1.00	0.00	O
HETATM	6958	CB	HIE	C	818	98.547	17.947	79.376	1.00	0.00	C
HETATM	6959	CG	HIE	C	818	99.819	18.195	80.126	1.00	0.00	C
HETATM	6960	CD2	HIE	C	818	100.100	19.107	81.095	1.00	0.00	C
HETATM	6961	ND1	HIE	C	818	100.977	17.472	79.943	1.00	0.00	N
HETATM	6962	CE1	HIE	C	818	101.894	17.978	80.804	1.00	0.00	C
HETATM	6963	NE2	HIE	C	818	101.409	18.970	81.526	1.00	0.00	N
ATOM	6964	N	SER	C	819	96.262	18.231	81.472	1.00	0.00	N
ATOM	6965	CA	SER	C	819	95.827	18.757	82.737	1.00	0.00	C
ATOM	6966	C	SER	C	819	96.968	19.312	83.542	1.00	0.00	C
ATOM	6967	O	SER	C	819	97.574	18.604	84.343	1.00	0.00	O
ATOM	6968	CB	SER	C	819	95.101	17.705	83.588	1.00	0.00	C
ATOM	6969	OG	SER	C	819	94.692	18.271	84.822	1.00	0.00	O
ATOM	6970	N	SER	C	820	97.319	20.597	83.308	1.00	0.00	N
ATOM	6971	CA	SER	C	820	98.379	21.207	84.064	1.00	0.00	C
ATOM	6972	C	SER	C	820	98.064	22.664	84.237	1.00	0.00	C
ATOM	6973	O	SER	C	820	97.038	23.153	83.770	1.00	0.00	O
ATOM	6974	CB	SER	C	820	99.746	21.093	83.364	1.00	0.00	C
ATOM	6975	OG	SER	C	820	100.772	21.662	84.164	1.00	0.00	O
ATOM	6976	N	ASN	C	821	98.928	23.394	84.974	1.00	0.00	N
ATOM	6977	CA	ASN	C	821	98.727	24.803	85.142	1.00	0.00	C
ATOM	6978	C	ASN	C	821	99.249	25.487	83.924	1.00	0.00	C
ATOM	6979	O	ASN	C	821	100.107	24.961	83.216	1.00	0.00	O
ATOM	6980	CB	ASN	C	821	99.430	25.407	86.367	1.00	0.00	C
ATOM	6981	CG	ASN	C	821	98.597	25.054	87.587	1.00	0.00	C
ATOM	6982	ND2	ASN	C	821	99.267	24.565	88.665	1.00	0.00	N
ATOM	6983	OD1	ASN	C	821	97.377	25.212	87.585	1.00	0.00	O
ATOM	6984	N	LYS	C	822	98.697	26.680	83.639	1.00	0.00	N
ATOM	6985	CA	LYS	C	822	99.059	27.481	82.502	1.00	0.00	C
ATOM	6986	C	LYS	C	822	98.538	26.810	81.268	1.00	0.00	C
ATOM	6987	O	LYS	C	822	98.669	27.322	80.158	1.00	0.00	O
ATOM	6988	CB	LYS	C	822	100.581	27.660	82.380	1.00	0.00	C
ATOM	6989	CG	LYS	C	822	101.171	28.414	83.573	1.00	0.00	C

ATOM	6990	CD	LYS	C	822	102.691	28.314	83.695	1.00	0.00	C
ATOM	6991	CE	LYS	C	822	103.233	28.907	84.998	1.00	0.00	C
ATOM	6992	NZ	LYS	C	822	102.835	28.056	86.142	1.00	0.00	N1+
ATOM	6993	N	SER	C	823	97.902	25.639	81.457	1.00	0.00	N
ATOM	6994	CA	SER	C	823	97.233	24.912	80.422	1.00	0.00	C
ATOM	6995	C	SER	C	823	96.508	23.841	81.167	1.00	0.00	C
ATOM	6996	O	SER	C	823	96.995	22.717	81.275	1.00	0.00	O
ATOM	6997	CB	SER	C	823	98.191	24.221	79.438	1.00	0.00	C
ATOM	6998	OG	SER	C	823	97.452	23.521	78.450	1.00	0.00	O
ATOM	6999	N	SER	C	824	95.320	24.179	81.701	1.00	0.00	N
ATOM	7000	CA	SER	C	824	94.562	23.268	82.507	1.00	0.00	C
ATOM	7001	C	SER	C	824	93.407	22.793	81.710	1.00	0.00	C
ATOM	7002	O	SER	C	824	93.345	22.968	80.493	1.00	0.00	O
ATOM	7003	CB	SER	C	824	93.944	23.914	83.760	1.00	0.00	C
ATOM	7004	OG	SER	C	824	94.954	24.402	84.630	1.00	0.00	O
ATOM	7005	N	LEU	C	825	92.446	22.161	82.406	1.00	0.00	N
ATOM	7006	CA	LEU	C	825	91.266	21.766	81.716	1.00	0.00	C
ATOM	7007	C	LEU	C	825	90.655	23.032	81.235	1.00	0.00	C
ATOM	7008	O	LEU	C	825	90.079	23.087	80.151	1.00	0.00	O
ATOM	7009	CB	LEU	C	825	90.211	21.036	82.559	1.00	0.00	C
ATOM	7010	CG	LEU	C	825	88.912	20.853	81.754	1.00	0.00	C
ATOM	7011	CD1	LEU	C	825	89.176	20.147	80.420	1.00	0.00	C
ATOM	7012	CD2	LEU	C	825	87.820	20.154	82.567	1.00	0.00	C
ATOM	7013	N	TYR	C	826	90.777	24.092	82.049	1.00	0.00	N
ATOM	7014	CA	TYR	C	826	90.227	25.351	81.660	1.00	0.00	C
ATOM	7015	C	TYR	C	826	90.943	25.776	80.418	1.00	0.00	C
ATOM	7016	O	TYR	C	826	90.324	26.257	79.471	1.00	0.00	O
ATOM	7017	CB	TYR	C	826	90.417	26.449	82.715	1.00	0.00	C
ATOM	7018	CG	TYR	C	826	89.686	27.644	82.206	1.00	0.00	C
ATOM	7019	CD1	TYR	C	826	88.326	27.743	82.384	1.00	0.00	C
ATOM	7020	CD2	TYR	C	826	90.353	28.655	81.554	1.00	0.00	C
ATOM	7021	CE1	TYR	C	826	87.637	28.838	81.921	1.00	0.00	C
ATOM	7022	CE2	TYR	C	826	89.669	29.752	81.087	1.00	0.00	C
ATOM	7023	CZ	TYR	C	826	88.309	29.843	81.271	1.00	0.00	C
ATOM	7024	OH	TYR	C	826	87.601	30.965	80.789	1.00	0.00	O
ATOM	7025	N	SER	C	827	92.276	25.595	80.389	1.00	0.00	N
ATOM	7026	CA	SER	C	827	93.039	26.003	79.244	1.00	0.00	C
ATOM	7027	C	SER	C	827	92.579	25.211	78.067	1.00	0.00	C
ATOM	7028	O	SER	C	827	92.431	25.743	76.967	1.00	0.00	O
ATOM	7029	CB	SER	C	827	94.546	25.752	79.402	1.00	0.00	C
ATOM	7030	OG	SER	C	827	95.233	26.178	78.234	1.00	0.00	O
ATOM	7031	N	GLY	C	828	92.324	23.906	78.267	1.00	0.00	N
ATOM	7032	CA	GLY	C	828	91.914	23.072	77.178	1.00	0.00	C
ATOM	7033	C	GLY	C	828	90.616	23.591	76.662	1.00	0.00	C

ATOM	7034	O	GLY C 828	90.388	23.632	75.455	1.00	0.00	O
ATOM	7035	N	ARG C 829	89.718	23.992	77.577	1.00	0.00	N
ATOM	7036	CA	ARG C 829	88.443	24.485	77.146	1.00	0.00	C
ATOM	7037	C	ARG C 829	88.647	25.742	76.371	1.00	0.00	C
ATOM	7038	O	ARG C 829	87.954	25.991	75.391	1.00	0.00	O
ATOM	7039	CB	ARG C 829	87.457	24.779	78.288	1.00	0.00	C
ATOM	7040	CG	ARG C 829	86.792	23.511	78.824	1.00	0.00	C
ATOM	7041	CD	ARG C 829	85.495	23.777	79.590	1.00	0.00	C
ATOM	7042	NE	ARG C 829	85.852	24.415	80.886	1.00	0.00	N
ATOM	7043	CZ	ARG C 829	85.968	23.644	82.007	1.00	0.00	C
ATOM	7044	NH1	ARG C 829	85.725	22.303	81.940	1.00	0.00	N
ATOM	7045	NH2	ARG C 829	86.323	24.218	83.192	1.00	0.00	N
ATOM	7046	N	VAL C 830	89.619	26.573	76.792	1.00	0.00	N
ATOM	7047	CA	VAL C 830	89.833	27.832	76.135	1.00	0.00	C
ATOM	7048	C	VAL C 830	90.195	27.595	74.701	1.00	0.00	C
ATOM	7049	O	VAL C 830	89.655	28.230	73.799	1.00	0.00	O
ATOM	7050	CB	VAL C 830	90.954	28.616	76.749	1.00	0.00	C
ATOM	7051	CG1	VAL C 830	91.179	29.887	75.911	1.00	0.00	C
ATOM	7052	CG2	VAL C 830	90.612	28.890	78.224	1.00	0.00	C
ATOM	7053	N	ILE C 831	91.105	26.644	74.457	1.00	0.00	N
ATOM	7054	CA	ILE C 831	91.603	26.352	73.146	1.00	0.00	C
ATOM	7055	C	ILE C 831	90.465	25.882	72.306	1.00	0.00	C
ATOM	7056	O	ILE C 831	90.335	26.248	71.138	1.00	0.00	O
ATOM	7057	CB	ILE C 831	92.542	25.195	73.213	1.00	0.00	C
ATOM	7058	CG1	ILE C 831	93.685	25.508	74.179	1.00	0.00	C
ATOM	7059	CG2	ILE C 831	92.987	24.829	71.794	1.00	0.00	C
ATOM	7060	CD1	ILE C 831	94.366	24.245	74.690	1.00	0.00	C
ATOM	7061	N	PHE C 832	89.616	25.037	72.905	1.00	0.00	N
ATOM	7062	CA	PHE C 832	88.539	24.387	72.223	1.00	0.00	C
ATOM	7063	C	PHE C 832	87.599	25.449	71.732	1.00	0.00	C
ATOM	7064	O	PHE C 832	87.122	25.390	70.600	1.00	0.00	O
ATOM	7065	CB	PHE C 832	87.801	23.446	73.194	1.00	0.00	C
ATOM	7066	CG	PHE C 832	87.162	22.311	72.465	1.00	0.00	C
ATOM	7067	CD1	PHE C 832	87.931	21.251	72.044	1.00	0.00	C
ATOM	7068	CD2	PHE C 832	85.812	22.274	72.233	1.00	0.00	C
ATOM	7069	CE1	PHE C 832	87.365	20.188	71.386	1.00	0.00	C
ATOM	7070	CE2	PHE C 832	85.234	21.214	71.573	1.00	0.00	C
ATOM	7071	CZ	PHE C 832	86.012	20.166	71.143	1.00	0.00	C
ATOM	7072	N	CYS C 833	87.310	26.453	72.581	1.00	0.00	N
ATOM	7073	CA	CYS C 833	86.407	27.513	72.225	1.00	0.00	C
ATOM	7074	C	CYS C 833	86.971	28.302	71.087	1.00	0.00	C
ATOM	7075	O	CYS C 833	86.257	28.640	70.144	1.00	0.00	O
ATOM	7076	CB	CYS C 833	86.170	28.501	73.383	1.00	0.00	C
ATOM	7077	SG	CYS C 833	85.026	29.843	72.933	1.00	0.00	S

ATOM 7078 N LEU C 834	88.283	28.605	71.139	1.00	0.00	N
ATOM 7079 CA LEU C 834	88.907	29.415	70.130	1.00	0.00	C
ATOM 7080 C LEU C 834	88.833	28.698	68.824	1.00	0.00	C
ATOM 7081 O LEU C 834	88.572	29.306	67.789	1.00	0.00	O
ATOM 7082 CB LEU C 834	90.392	29.695	70.426	1.00	0.00	C
ATOM 7083 CG LEU C 834	90.604	30.534	71.700	1.00	0.00	C
ATOM 7084 CD1 LEU C 834	92.094	30.817	71.943	1.00	0.00	C
ATOM 7085 CD2 LEU C 834	89.746	31.809	71.679	1.00	0.00	C
ATOM 7086 N ASP C 835	89.044	27.371	68.847	1.00	0.00	N
ATOM 7087 CA ASP C 835	89.026	26.605	67.639	1.00	0.00	C
ATOM 7088 C ASP C 835	87.661	26.742	67.056	1.00	0.00	C
ATOM 7089 O ASP C 835	87.504	26.879	65.846	1.00	0.00	O
ATOM 7090 CB ASP C 835	89.276	25.110	67.894	1.00	0.00	C
ATOM 7091 CG ASP C 835	90.709	24.954	68.385	1.00	0.00	C
ATOM 7092 OD1 ASP C 835	91.576	25.755	67.946	1.00	0.00	O
ATOM 7093 OD2 ASP C 835	90.954	24.037	69.213	1.00	0.00	O
ATOM 7094 N TYR C 836	86.640	26.757	67.924	1.00	0.00	N
ATOM 7095 CA TYR C 836	85.275	26.855	67.496	1.00	0.00	C
ATOM 7096 C TYR C 836	85.117	28.122	66.724	1.00	0.00	C
ATOM 7097 O TYR C 836	84.478	28.138	65.673	1.00	0.00	O
ATOM 7098 CB TYR C 836	84.298	26.918	68.684	1.00	0.00	C
ATOM 7099 CG TYR C 836	82.952	27.326	68.185	1.00	0.00	C
ATOM 7100 CD1 TYR C 836	82.064	26.404	67.686	1.00	0.00	C
ATOM 7101 CD2 TYR C 836	82.582	28.650	68.229	1.00	0.00	C
ATOM 7102 CE1 TYR C 836	80.829	26.805	67.233	1.00	0.00	C
ATOM 7103 CE2 TYR C 836	81.349	29.057	67.776	1.00	0.00	C
ATOM 7104 CZ TYR C 836	80.468	28.129	67.276	1.00	0.00	C
ATOM 7105 OH TYR C 836	79.199	28.536	66.812	1.00	0.00	O
ATOM 7106 N ILE C 837	85.708	29.222	67.221	1.00	0.00	N
ATOM 7107 CA ILE C 837	85.543	30.493	66.582	1.00	0.00	C
ATOM 7108 C ILE C 837	86.118	30.439	65.201	1.00	0.00	C
ATOM 7109 O ILE C 837	85.488	30.887	64.247	1.00	0.00	O
ATOM 7110 CB ILE C 837	86.243	31.601	67.310	1.00	0.00	C
ATOM 7111 CG1 ILE C 837	85.688	31.742	68.736	1.00	0.00	C
ATOM 7112 CG2 ILE C 837	86.095	32.875	66.465	1.00	0.00	C
ATOM 7113 CD1 ILE C 837	86.542	32.638	69.632	1.00	0.00	C
ATOM 7114 N ILE C 838	87.329	29.870	65.054	1.00	0.00	N
ATOM 7115 CA ILE C 838	87.971	29.858	63.771	1.00	0.00	C
ATOM 7116 C ILE C 838	87.176	29.037	62.810	1.00	0.00	C
ATOM 7117 O ILE C 838	87.052	29.403	61.642	1.00	0.00	O
ATOM 7118 CB ILE C 838	89.382	29.336	63.787	1.00	0.00	C
ATOM 7119 CG1 ILE C 838	90.092	29.714	62.476	1.00	0.00	C
ATOM 7120 CG2 ILE C 838	89.337	27.820	64.040	1.00	0.00	C
ATOM 7121 CD1 ILE C 838	90.298	31.221	62.309	1.00	0.00	C

ATOM	7122	N	PHE	C	839	86.616	27.900	63.265	1.00	0.00	N
ATOM	7123	CA	PHE	C	839	85.880	27.065	62.362	1.00	0.00	C
ATOM	7124	C	PHE	C	839	84.732	27.853	61.834	1.00	0.00	C
ATOM	7125	O	PHE	C	839	84.430	27.811	60.644	1.00	0.00	O
ATOM	7126	CB	PHE	C	839	85.326	25.771	62.989	1.00	0.00	C
ATOM	7127	CG	PHE	C	839	86.481	24.866	63.257	1.00	0.00	C
ATOM	7128	CD1	PHE	C	839	87.175	24.294	62.213	1.00	0.00	C
ATOM	7129	CD2	PHE	C	839	86.857	24.564	64.541	1.00	0.00	C
ATOM	7130	CE1	PHE	C	839	88.239	23.457	62.449	1.00	0.00	C
ATOM	7131	CE2	PHE	C	839	87.922	23.729	64.788	1.00	0.00	C
ATOM	7132	CZ	PHE	C	839	88.617	23.175	63.739	1.00	0.00	C
ATOM	7133	N	THR	C	840	84.076	28.624	62.711	1.00	0.00	N
ATOM	7134	CA	THR	C	840	82.930	29.389	62.333	1.00	0.00	C
ATOM	7135	C	THR	C	840	83.372	30.363	61.284	1.00	0.00	C
ATOM	7136	O	THR	C	840	82.670	30.599	60.303	1.00	0.00	O
ATOM	7137	CB	THR	C	840	82.409	30.175	63.494	1.00	0.00	C
ATOM	7138	CG2	THR	C	840	81.049	30.769	63.110	1.00	0.00	C
ATOM	7139	OG1	THR	C	840	82.228	29.310	64.602	1.00	0.00	O
ATOM	7140	N	LEU	C	841	84.579	30.931	61.461	1.00	0.00	N
ATOM	7141	CA	LEU	C	841	85.082	31.928	60.562	1.00	0.00	C
ATOM	7142	C	LEU	C	841	85.187	31.310	59.206	1.00	0.00	C
ATOM	7143	O	LEU	C	841	84.888	31.944	58.196	1.00	0.00	O
ATOM	7144	CB	LEU	C	841	86.477	32.435	60.959	1.00	0.00	C
ATOM	7145	CG	LEU	C	841	87.030	33.508	60.004	1.00	0.00	C
ATOM	7146	CD1	LEU	C	841	86.176	34.785	60.056	1.00	0.00	C
ATOM	7147	CD2	LEU	C	841	88.518	33.779	60.266	1.00	0.00	C
ATOM	7148	N	ARG	C	842	85.614	30.042	59.161	1.00	0.00	N
ATOM	7149	CA	ARG	C	842	85.774	29.299	57.946	1.00	0.00	C
ATOM	7150	C	ARG	C	842	84.439	29.239	57.271	1.00	0.00	C
ATOM	7151	O	ARG	C	842	84.326	29.466	56.066	1.00	0.00	O
ATOM	7152	CB	ARG	C	842	86.225	27.874	58.298	1.00	0.00	C
ATOM	7153	CG	ARG	C	842	86.268	26.838	57.179	1.00	0.00	C
ATOM	7154	CD	ARG	C	842	86.736	25.497	57.752	1.00	0.00	C
ATOM	7155	NE	ARG	C	842	86.598	24.440	56.719	1.00	0.00	N
ATOM	7156	CZ	ARG	C	842	87.076	23.192	56.991	1.00	0.00	C
ATOM	7157	NH1	ARG	C	842	87.743	22.956	58.161	1.00	0.00	N
ATOM	7158	NH2	ARG	C	842	86.892	22.177	56.100	1.00	0.00	N
ATOM	7159	N	LEU	C	843	83.374	28.955	58.043	1.00	0.00	N
ATOM	7160	CA	LEU	C	843	82.070	28.867	57.460	1.00	0.00	C
ATOM	7161	C	LEU	C	843	81.694	30.193	56.899	1.00	0.00	C
ATOM	7162	O	LEU	C	843	81.138	30.275	55.807	1.00	0.00	O
ATOM	7163	CB	LEU	C	843	80.963	28.462	58.447	1.00	0.00	C
ATOM	7164	CG	LEU	C	843	80.974	26.966	58.813	1.00	0.00	C
ATOM	7165	CD1	LEU	C	843	82.284	26.560	59.494	1.00	0.00	C

ATOM	7166	CD2	LEU	C	843	79.728	26.586	59.629	1.00	0.00	C
ATOM	7167	N	ILE	C	844	82.022	31.278	57.619	1.00	0.00	N
ATOM	7168	CA	ILE	C	844	81.623	32.583	57.193	1.00	0.00	C
ATOM	7169	C	ILE	C	844	82.207	32.824	55.840	1.00	0.00	C
ATOM	7170	O	ILE	C	844	81.528	33.318	54.942	1.00	0.00	O
ATOM	7171	CB	ILE	C	844	82.144	33.647	58.109	1.00	0.00	C
ATOM	7172	CG1	ILE	C	844	81.575	33.436	59.519	1.00	0.00	C
ATOM	7173	CG2	ILE	C	844	81.812	35.014	57.488	1.00	0.00	C
ATOM	7174	CD1	ILE	C	844	82.333	34.187	60.608	1.00	0.00	C
HETATM	7175	N	HIE	C	845	83.484	32.454	55.651	1.00	0.00	N
HETATM	7176	CA	HIE	C	845	84.102	32.694	54.383	1.00	0.00	C
HETATM	7177	C	HIE	C	845	83.374	31.910	53.338	1.00	0.00	C
HETATM	7178	O	HIE	C	845	83.186	32.382	52.221	1.00	0.00	O
HETATM	7179	CB	HIE	C	845	85.580	32.294	54.310	1.00	0.00	C
HETATM	7180	CG	HIE	C	845	86.179	32.702	52.998	1.00	0.00	C
HETATM	7181	CD2	HIE	C	845	86.440	31.963	51.884	1.00	0.00	C
HETATM	7182	ND1	HIE	C	845	86.569	33.987	52.693	1.00	0.00	N
HETATM	7183	CE1	HIE	C	845	87.041	33.966	51.425	1.00	0.00	C
HETATM	7184	NE2	HIE	C	845	86.984	32.758	50.890	1.00	0.00	N
ATOM	7185	N	ILE	C	846	82.942	30.686	53.683	1.00	0.00	N
ATOM	7186	CA	ILE	C	846	82.276	29.848	52.731	1.00	0.00	C
ATOM	7187	C	ILE	C	846	81.029	30.547	52.288	1.00	0.00	C
ATOM	7188	O	ILE	C	846	80.715	30.575	51.100	1.00	0.00	O
ATOM	7189	CB	ILE	C	846	81.875	28.524	53.321	1.00	0.00	C
ATOM	7190	CG1	ILE	C	846	83.121	27.775	53.826	1.00	0.00	C
ATOM	7191	CG2	ILE	C	846	81.086	27.749	52.251	1.00	0.00	C
ATOM	7192	CD1	ILE	C	846	82.795	26.566	54.704	1.00	0.00	C
ATOM	7193	N	PHE	C	847	80.294	31.152	53.239	1.00	0.00	N
ATOM	7194	CA	PHE	C	847	79.062	31.805	52.901	1.00	0.00	C
ATOM	7195	C	PHE	C	847	79.372	32.940	51.973	1.00	0.00	C
ATOM	7196	O	PHE	C	847	78.675	33.152	50.981	1.00	0.00	O
ATOM	7197	CB	PHE	C	847	78.348	32.446	54.108	1.00	0.00	C
ATOM	7198	CG	PHE	C	847	78.050	31.405	55.135	1.00	0.00	C
ATOM	7199	CD1	PHE	C	847	77.093	30.437	54.917	1.00	0.00	C
ATOM	7200	CD2	PHE	C	847	78.711	31.424	56.341	1.00	0.00	C
ATOM	7201	CE1	PHE	C	847	76.831	29.494	55.879	1.00	0.00	C
ATOM	7202	CE2	PHE	C	847	78.452	30.482	57.308	1.00	0.00	C
ATOM	7203	CZ	PHE	C	847	77.507	29.508	57.077	1.00	0.00	C
ATOM	7204	N	THR	C	848	80.447	33.690	52.276	1.00	0.00	N
ATOM	7205	CA	THR	C	848	80.801	34.874	51.549	1.00	0.00	C
ATOM	7206	C	THR	C	848	81.053	34.531	50.118	1.00	0.00	C
ATOM	7207	O	THR	C	848	80.542	35.182	49.209	1.00	0.00	O
ATOM	7208	CB	THR	C	848	82.084	35.462	52.048	1.00	0.00	C
ATOM	7209	CG2	THR	C	848	82.323	36.797	51.326	1.00	0.00	C

ATOM	7210	OG1 THR C 848	82.006	35.677	53.447	1.00	0.00	O
ATOM	7211	N VAL C 849	81.855	33.483	49.876	1.00	0.00	N
ATOM	7212	CA VAL C 849	82.167	33.141	48.522	1.00	0.00	C
ATOM	7213	C VAL C 849	80.911	32.725	47.838	1.00	0.00	C
ATOM	7214	O VAL C 849	80.640	33.136	46.709	1.00	0.00	O
ATOM	7215	CB VAL C 849	83.123	31.990	48.421	1.00	0.00	C
ATOM	7216	CG1 VAL C 849	83.294	31.628	46.936	1.00	0.00	C
ATOM	7217	CG2 VAL C 849	84.433	32.380	49.127	1.00	0.00	C
ATOM	7218	N SER C 850	80.097	31.903	48.522	1.00	0.00	N
ATOM	7219	CA SER C 850	78.902	31.370	47.941	1.00	0.00	C
ATOM	7220	C SER C 850	77.981	32.493	47.594	1.00	0.00	C
ATOM	7221	O SER C 850	77.374	32.495	46.523	1.00	0.00	O
ATOM	7222	CB SER C 850	78.144	30.450	48.912	1.00	0.00	C
ATOM	7223	OG SER C 850	78.952	29.337	49.265	1.00	0.00	O
ATOM	7224	N ARG C 851	77.852	33.488	48.490	1.00	0.00	N
ATOM	7225	CA ARG C 851	76.938	34.564	48.240	1.00	0.00	C
ATOM	7226	C ARG C 851	77.365	35.337	47.034	1.00	0.00	C
ATOM	7227	O ARG C 851	76.530	35.670	46.192	1.00	0.00	O
ATOM	7228	CB ARG C 851	76.792	35.551	49.415	1.00	0.00	C
ATOM	7229	CG ARG C 851	78.096	36.227	49.852	1.00	0.00	C
ATOM	7230	CD ARG C 851	77.910	37.376	50.848	1.00	0.00	C
ATOM	7231	NE ARG C 851	77.571	38.601	50.069	1.00	0.00	N
ATOM	7232	CZ ARG C 851	78.557	39.483	49.729	1.00	0.00	C
ATOM	7233	NH1 ARG C 851	79.841	39.267	50.145	1.00	0.00	N
ATOM	7234	NH2 ARG C 851	78.262	40.585	48.980	1.00	0.00	N
ATOM	7235	N ASN C 852	78.673	35.639	46.900	1.00	0.00	N
ATOM	7236	CA ASN C 852	79.075	36.474	45.804	1.00	0.00	C
ATOM	7237	C ASN C 852	79.876	35.673	44.817	1.00	0.00	C
ATOM	7238	O ASN C 852	81.103	35.740	44.796	1.00	0.00	O
ATOM	7239	CB ASN C 852	79.957	37.638	46.280	1.00	0.00	C
ATOM	7240	CG ASN C 852	79.973	38.682	45.187	1.00	0.00	C
ATOM	7241	ND2 ASN C 852	80.493	39.892	45.530	1.00	0.00	N
ATOM	7242	OD1 ASN C 852	79.530	38.430	44.068	1.00	0.00	O
ATOM	7243	N LEU C 853	79.173	34.864	44.002	1.00	0.00	N
ATOM	7244	CA LEU C 853	79.691	34.039	42.943	1.00	0.00	C
ATOM	7245	C LEU C 853	80.005	34.859	41.728	1.00	0.00	C
ATOM	7246	O LEU C 853	80.923	34.537	40.978	1.00	0.00	O
ATOM	7247	CB LEU C 853	78.672	32.932	42.570	1.00	0.00	C
ATOM	7248	CG LEU C 853	79.090	31.890	41.504	1.00	0.00	C
ATOM	7249	CD1 LEU C 853	78.034	30.777	41.423	1.00	0.00	C
ATOM	7250	CD2 LEU C 853	79.326	32.493	40.110	1.00	0.00	C
ATOM	7251	N GLY C 854	79.222	35.935	41.503	1.00	0.00	N
ATOM	7252	CA GLY C 854	79.231	36.733	40.300	1.00	0.00	C
ATOM	7253	C GLY C 854	80.598	37.182	39.898	1.00	0.00	C

ATOM	7254	O	GLY C 854	81.599	36.929	40.562	1.00	0.00	O
ATOM	7255	N	PRO C 855	80.602	38.010	38.856	1.00	0.00	N
ATOM	7256	CA	PRO C 855	81.761	38.656	38.300	1.00	0.00	C
ATOM	7257	C	PRO C 855	82.531	39.382	39.345	1.00	0.00	C
ATOM	7258	O	PRO C 855	83.666	39.794	39.112	1.00	0.00	O
ATOM	7259	CB	PRO C 855	81.256	39.488	37.127	1.00	0.00	C
ATOM	7260	CG	PRO C 855	80.040	38.680	36.637	1.00	0.00	C
ATOM	7261	CD	PRO C 855	79.512	37.972	37.897	1.00	0.00	C
ATOM	7262	N	LYS C 856	81.904	39.513	40.507	1.00	0.00	N
ATOM	7263	CA	LYS C 856	82.379	40.055	41.712	1.00	0.00	C
ATOM	7264	C	LYS C 856	83.532	39.242	42.225	1.00	0.00	C
ATOM	7265	O	LYS C 856	84.334	39.769	42.985	1.00	0.00	O
ATOM	7266	CB	LYS C 856	81.299	40.080	42.791	1.00	0.00	C
ATOM	7267	CG	LYS C 856	80.084	40.932	42.422	1.00	0.00	C
ATOM	7268	CD	LYS C 856	79.171	40.305	41.365	1.00	0.00	C
ATOM	7269	CE	LYS C 856	77.865	39.760	41.949	1.00	0.00	C
ATOM	7270	NZ	LYS C 856	76.974	39.296	40.862	1.00	0.00	N1+
ATOM	7271	N	ILE C 857	83.663	37.946	41.849	1.00	0.00	N
ATOM	7272	CA	ILE C 857	84.723	37.160	42.430	1.00	0.00	C
ATOM	7273	C	ILE C 857	86.045	37.787	42.173	1.00	0.00	C
ATOM	7274	O	ILE C 857	86.884	37.853	43.071	1.00	0.00	O
ATOM	7275	CB	ILE C 857	84.836	35.746	41.943	1.00	0.00	C
ATOM	7276	CG1	ILE C 857	86.012	35.060	42.654	1.00	0.00	C
ATOM	7277	CG2	ILE C 857	85.067	35.772	40.430	1.00	0.00	C
ATOM	7278	CD1	ILE C 857	85.925	35.055	44.175	1.00	0.00	C
ATOM	7279	N	ILE C 858	86.269	38.292	40.953	1.00	0.00	N
ATOM	7280	CA	ILE C 858	87.550	38.838	40.636	1.00	0.00	C
ATOM	7281	C	ILE C 858	87.828	39.962	41.589	1.00	0.00	C
ATOM	7282	O	ILE C 858	88.923	40.072	42.139	1.00	0.00	O
ATOM	7283	CB	ILE C 858	87.581	39.317	39.200	1.00	0.00	C
ATOM	7284	CG1	ILE C 858	89.012	39.529	38.701	1.00	0.00	C
ATOM	7285	CG2	ILE C 858	86.666	40.539	39.039	1.00	0.00	C
ATOM	7286	CD1	ILE C 858	89.701	38.233	38.283	1.00	0.00	C
ATOM	7287	N	MET C 859	86.818	40.816	41.834	1.00	0.00	N
ATOM	7288	CA	MET C 859	86.950	41.951	42.697	1.00	0.00	C
ATOM	7289	C	MET C 859	87.158	41.495	44.104	1.00	0.00	C
ATOM	7290	O	MET C 859	87.947	42.079	44.848	1.00	0.00	O
ATOM	7291	CB	MET C 859	85.700	42.847	42.666	1.00	0.00	C
ATOM	7292	CG	MET C 859	85.862	44.179	43.404	1.00	0.00	C
ATOM	7293	SD	MET C 859	85.898	44.067	45.216	1.00	0.00	S
ATOM	7294	CE	MET C 859	84.112	43.786	45.357	1.00	0.00	C
ATOM	7295	N	LEU C 860	86.451	40.421	44.493	1.00	0.00	N
ATOM	7296	CA	LEU C 860	86.432	39.954	45.846	1.00	0.00	C
ATOM	7297	C	LEU C 860	87.805	39.540	46.281	1.00	0.00	C

ATOM	7298	O	LEU	C	860	88.238	39.892	47.380	1.00	0.00	O
ATOM	7299	CB	LEU	C	860	85.440	38.773	45.992	1.00	0.00	C
ATOM	7300	CG	LEU	C	860	85.144	38.256	47.415	1.00	0.00	C
ATOM	7301	CD1	LEU	C	860	84.077	37.151	47.360	1.00	0.00	C
ATOM	7302	CD2	LEU	C	860	86.402	37.776	48.163	1.00	0.00	C
ATOM	7303	N	GLN	C	861	88.547	38.794	45.445	1.00	0.00	N
ATOM	7304	CA	GLN	C	861	89.819	38.303	45.902	1.00	0.00	C
ATOM	7305	C	GLN	C	861	90.781	39.427	46.143	1.00	0.00	C
ATOM	7306	O	GLN	C	861	91.478	39.441	47.157	1.00	0.00	O
ATOM	7307	CB	GLN	C	861	90.495	37.322	44.933	1.00	0.00	C
ATOM	7308	CG	GLN	C	861	91.809	36.779	45.504	1.00	0.00	C
ATOM	7309	CD	GLN	C	861	92.422	35.814	44.503	1.00	0.00	C
ATOM	7310	NE2	GLN	C	861	93.537	35.153	44.911	1.00	0.00	N
ATOM	7311	OE1	GLN	C	861	91.928	35.653	43.389	1.00	0.00	O
ATOM	7312	N	ARG	C	862	90.844	40.405	45.224	1.00	0.00	N
ATOM	7313	CA	ARG	C	862	91.787	41.485	45.340	1.00	0.00	C
ATOM	7314	C	ARG	C	862	91.464	42.277	46.565	1.00	0.00	C
ATOM	7315	O	ARG	C	862	92.352	42.697	47.304	1.00	0.00	O
ATOM	7316	CB	ARG	C	862	91.709	42.455	44.150	1.00	0.00	C
ATOM	7317	CG	ARG	C	862	92.693	43.622	44.223	1.00	0.00	C
ATOM	7318	CD	ARG	C	862	94.141	43.212	43.961	1.00	0.00	C
ATOM	7319	NE	ARG	C	862	94.954	44.459	43.952	1.00	0.00	N
ATOM	7320	CZ	ARG	C	862	95.456	44.952	45.122	1.00	0.00	C
ATOM	7321	NH1	ARG	C	862	95.252	44.274	46.288	1.00	0.00	N
ATOM	7322	NH2	ARG	C	862	96.161	46.121	45.122	1.00	0.00	N
ATOM	7323	N	MET	C	863	90.165	42.490	46.815	1.00	0.00	N
ATOM	7324	CA	MET	C	863	89.747	43.273	47.936	1.00	0.00	C
ATOM	7325	C	MET	C	863	90.202	42.578	49.174	1.00	0.00	C
ATOM	7326	O	MET	C	863	90.622	43.210	50.143	1.00	0.00	O
ATOM	7327	CB	MET	C	863	88.216	43.422	47.985	1.00	0.00	C
ATOM	7328	CG	MET	C	863	87.692	44.249	49.159	1.00	0.00	C
ATOM	7329	SD	MET	C	863	87.686	43.374	50.750	1.00	0.00	S
ATOM	7330	CE	MET	C	863	86.913	44.734	51.671	1.00	0.00	C
ATOM	7331	N	LEU	C	864	90.144	41.238	49.167	1.00	0.00	N
ATOM	7332	CA	LEU	C	864	90.508	40.488	50.326	1.00	0.00	C
ATOM	7333	C	LEU	C	864	91.948	40.747	50.635	1.00	0.00	C
ATOM	7334	O	LEU	C	864	92.310	40.997	51.782	1.00	0.00	O
ATOM	7335	CB	LEU	C	864	90.425	38.972	50.093	1.00	0.00	C
ATOM	7336	CG	LEU	C	864	90.689	38.147	51.363	1.00	0.00	C
ATOM	7337	CD1	LEU	C	864	89.433	38.078	52.244	1.00	0.00	C
ATOM	7338	CD2	LEU	C	864	91.314	36.784	51.037	1.00	0.00	C
ATOM	7339	N	ILE	C	865	92.816	40.697	49.611	1.00	0.00	N
ATOM	7340	CA	ILE	C	865	94.214	40.838	49.886	1.00	0.00	C
ATOM	7341	C	ILE	C	865	94.511	42.208	50.405	1.00	0.00	C

ATOM	7342	O	ILE C 865	95.227	42.355	51.396	1.00	0.00	O
ATOM	7343	CB	ILE C 865	95.094	40.565	48.698	1.00	0.00	C
ATOM	7344	CG1	ILE C 865	96.556	40.438	49.151	1.00	0.00	C
ATOM	7345	CG2	ILE C 865	94.862	41.647	47.632	1.00	0.00	C
ATOM	7346	CD1	ILE C 865	97.475	39.852	48.080	1.00	0.00	C
ATOM	7347	N	ASP C 866	93.961	43.262	49.768	1.00	0.00	N
ATOM	7348	CA	ASP C 866	94.317	44.577	50.208	1.00	0.00	C
ATOM	7349	C	ASP C 866	93.809	44.841	51.596	1.00	0.00	C
ATOM	7350	O	ASP C 866	94.496	45.481	52.393	1.00	0.00	O
ATOM	7351	CB	ASP C 866	93.938	45.704	49.219	1.00	0.00	C
ATOM	7352	CG	ASP C 866	92.449	45.764	48.913	1.00	0.00	C
ATOM	7353	OD1	ASP C 866	91.618	45.516	49.823	1.00	0.00	O
ATOM	7354	OD2	ASP C 866	92.125	46.064	47.736	1.00	0.00	O
ATOM	7355	N	VAL C 867	92.606	44.344	51.937	1.00	0.00	N
ATOM	7356	CA	VAL C 867	92.071	44.609	53.243	1.00	0.00	C
ATOM	7357	C	VAL C 867	92.936	43.957	54.276	1.00	0.00	C
ATOM	7358	O	VAL C 867	93.224	44.548	55.309	1.00	0.00	O
ATOM	7359	CB	VAL C 867	90.668	44.113	53.427	1.00	0.00	C
ATOM	7360	CG1	VAL C 867	89.759	44.873	52.449	1.00	0.00	C
ATOM	7361	CG2	VAL C 867	90.643	42.585	53.265	1.00	0.00	C
ATOM	7362	N	PHE C 868	93.396	42.718	54.017	1.00	0.00	N
ATOM	7363	CA	PHE C 868	94.191	42.041	55.003	1.00	0.00	C
ATOM	7364	C	PHE C 868	95.427	42.828	55.270	1.00	0.00	C
ATOM	7365	O	PHE C 868	95.828	42.985	56.422	1.00	0.00	O
ATOM	7366	CB	PHE C 868	94.631	40.624	54.594	1.00	0.00	C
ATOM	7367	CG	PHE C 868	93.506	39.692	54.875	1.00	0.00	C
ATOM	7368	CD1	PHE C 868	93.302	39.241	56.160	1.00	0.00	C
ATOM	7369	CD2	PHE C 868	92.672	39.253	53.877	1.00	0.00	C
ATOM	7370	CE1	PHE C 868	92.275	38.376	56.455	1.00	0.00	C
ATOM	7371	CE2	PHE C 868	91.643	38.386	54.170	1.00	0.00	C
ATOM	7372	CZ	PHE C 868	91.441	37.946	55.455	1.00	0.00	C
ATOM	7373	N	PHE C 869	96.061	43.351	54.209	1.00	0.00	N
ATOM	7374	CA	PHE C 869	97.269	44.096	54.380	1.00	0.00	C
ATOM	7375	C	PHE C 869	96.949	45.267	55.266	1.00	0.00	C
ATOM	7376	O	PHE C 869	97.651	45.536	56.238	1.00	0.00	O
ATOM	7377	CB	PHE C 869	97.780	44.642	53.033	1.00	0.00	C
ATOM	7378	CG	PHE C 869	99.075	45.354	53.224	1.00	0.00	C
ATOM	7379	CD1	PHE C 869	100.261	44.653	53.228	1.00	0.00	C
ATOM	7380	CD2	PHE C 869	99.108	46.720	53.389	1.00	0.00	C
ATOM	7381	CE1	PHE C 869	101.460	45.302	53.403	1.00	0.00	C
ATOM	7382	CE2	PHE C 869	100.305	47.377	53.562	1.00	0.00	C
ATOM	7383	CZ	PHE C 869	101.482	46.667	53.571	1.00	0.00	C
ATOM	7384	N	PHE C 870	95.839	45.965	54.964	1.00	0.00	N
ATOM	7385	CA	PHE C 870	95.444	47.144	55.681	1.00	0.00	C

ATOM	7386	C	PHE C 870	95.197	46.866	57.127	1.00	0.00	C
ATOM	7387	O	PHE C 870	95.729	47.559	57.992	1.00	0.00	O
ATOM	7388	CB	PHE C 870	94.168	47.773	55.090	1.00	0.00	C
ATOM	7389	CG	PHE C 870	93.585	48.726	56.075	1.00	0.00	C
ATOM	7390	CD1	PHE C 870	94.372	49.652	56.707	1.00	0.00	C
ATOM	7391	CD2	PHE C 870	92.237	48.727	56.346	1.00	0.00	C
ATOM	7392	CE1	PHE C 870	93.850	50.555	57.605	1.00	0.00	C
ATOM	7393	CE2	PHE C 870	91.699	49.624	57.244	1.00	0.00	C
ATOM	7394	CZ	PHE C 870	92.505	50.538	57.874	1.00	0.00	C
ATOM	7395	N	LEU C 871	94.392	45.839	57.435	1.00	0.00	N
ATOM	7396	CA	LEU C 871	94.082	45.592	58.811	1.00	0.00	C
ATOM	7397	C	LEU C 871	95.332	45.233	59.541	1.00	0.00	C
ATOM	7398	O	LEU C 871	95.516	45.631	60.688	1.00	0.00	O
ATOM	7399	CB	LEU C 871	93.052	44.468	59.027	1.00	0.00	C
ATOM	7400	CG	LEU C 871	91.603	44.878	58.704	1.00	0.00	C
ATOM	7401	CD1	LEU C 871	91.112	45.961	59.679	1.00	0.00	C
ATOM	7402	CD2	LEU C 871	91.422	45.288	57.237	1.00	0.00	C
ATOM	7403	N	PHE C 872	96.239	44.482	58.891	1.00	0.00	N
ATOM	7404	CA	PHE C 872	97.417	44.047	59.580	1.00	0.00	C
ATOM	7405	C	PHE C 872	98.202	45.240	60.021	1.00	0.00	C
ATOM	7406	O	PHE C 872	98.612	45.321	61.178	1.00	0.00	O
ATOM	7407	CB	PHE C 872	98.340	43.173	58.711	1.00	0.00	C
ATOM	7408	CG	PHE C 872	99.438	42.692	59.595	1.00	0.00	C
ATOM	7409	CD1	PHE C 872	99.236	41.618	60.430	1.00	0.00	C
ATOM	7410	CD2	PHE C 872	100.671	43.310	59.591	1.00	0.00	C
ATOM	7411	CE1	PHE C 872	100.242	41.165	61.252	1.00	0.00	C
ATOM	7412	CE2	PHE C 872	101.677	42.859	60.410	1.00	0.00	C
ATOM	7413	CZ	PHE C 872	101.466	41.788	61.241	1.00	0.00	C
ATOM	7414	N	LEU C 873	98.425	46.212	59.120	1.00	0.00	N
ATOM	7415	CA	LEU C 873	99.210	47.354	59.485	1.00	0.00	C
ATOM	7416	C	LEU C 873	98.522	48.160	60.542	1.00	0.00	C
ATOM	7417	O	LEU C 873	99.165	48.677	61.453	1.00	0.00	O
ATOM	7418	CB	LEU C 873	99.528	48.292	58.313	1.00	0.00	C
ATOM	7419	CG	LEU C 873	100.619	47.741	57.376	1.00	0.00	C
ATOM	7420	CD1	LEU C 873	100.196	46.428	56.704	1.00	0.00	C
ATOM	7421	CD2	LEU C 873	101.065	48.814	56.378	1.00	0.00	C
ATOM	7422	N	PHE C 874	97.192	48.305	60.459	1.00	0.00	N
ATOM	7423	CA	PHE C 874	96.557	49.154	61.421	1.00	0.00	C
ATOM	7424	C	PHE C 874	96.758	48.563	62.781	1.00	0.00	C
ATOM	7425	O	PHE C 874	97.141	49.258	63.721	1.00	0.00	O
ATOM	7426	CB	PHE C 874	95.045	49.294	61.175	1.00	0.00	C
ATOM	7427	CG	PHE C 874	94.578	50.487	61.935	1.00	0.00	C
ATOM	7428	CD1	PHE C 874	94.699	51.742	61.379	1.00	0.00	C
ATOM	7429	CD2	PHE C 874	94.017	50.369	63.185	1.00	0.00	C

ATOM	7430	CE1 PHE C 874	94.274	52.859	62.058	1.00	0.00	C
ATOM	7431	CE2 PHE C 874	93.591	51.483	63.867	1.00	0.00	C
ATOM	7432	CZ PHE C 874	93.720	52.729	63.308	1.00	0.00	C
ATOM	7433	N ALA C 875	96.523	47.244	62.913	1.00	0.00	N
ATOM	7434	CA ALA C 875	96.635	46.581	64.180	1.00	0.00	C
ATOM	7435	C ALA C 875	98.048	46.658	64.664	1.00	0.00	C
ATOM	7436	O ALA C 875	98.287	46.915	65.842	1.00	0.00	O
ATOM	7437	CB ALA C 875	96.254	45.092	64.102	1.00	0.00	C
ATOM	7438	N VAL C 876	99.025	46.449	63.762	1.00	0.00	N
ATOM	7439	CA VAL C 876	100.395	46.445	64.186	1.00	0.00	C
ATOM	7440	C VAL C 876	100.754	47.796	64.699	1.00	0.00	C
ATOM	7441	O VAL C 876	101.467	47.920	65.695	1.00	0.00	O
ATOM	7442	CB VAL C 876	101.367	46.046	63.109	1.00	0.00	C
ATOM	7443	CG1 VAL C 876	101.035	44.602	62.703	1.00	0.00	C
ATOM	7444	CG2 VAL C 876	101.314	47.054	61.950	1.00	0.00	C
ATOM	7445	N TRP C 877	100.270	48.861	64.040	1.00	0.00	N
ATOM	7446	CA TRP C 877	100.599	50.178	64.495	1.00	0.00	C
ATOM	7447	C TRP C 877	100.049	50.359	65.876	1.00	0.00	C
ATOM	7448	O TRP C 877	100.740	50.850	66.766	1.00	0.00	O
ATOM	7449	CB TRP C 877	99.999	51.287	63.615	1.00	0.00	C
ATOM	7450	CG TRP C 877	100.242	52.683	64.138	1.00	0.00	C
ATOM	7451	CD1 TRP C 877	101.306	53.516	63.956	1.00	0.00	C
ATOM	7452	CD2 TRP C 877	99.308	53.390	64.966	1.00	0.00	C
ATOM	7453	CE2 TRP C 877	99.867	54.636	65.249	1.00	0.00	C
ATOM	7454	CE3 TRP C 877	98.082	53.031	65.451	1.00	0.00	C
ATOM	7455	NE1 TRP C 877	101.094	54.699	64.623	1.00	0.00	N
ATOM	7456	CZ2 TRP C 877	99.205	55.546	66.027	1.00	0.00	C
ATOM	7457	CZ3 TRP C 877	97.418	53.949	66.234	1.00	0.00	C
ATOM	7458	CH2 TRP C 877	97.969	55.179	66.516	1.00	0.00	C
ATOM	7459	N MET C 878	98.787	49.945	66.091	1.00	0.00	N
ATOM	7460	CA MET C 878	98.142	50.161	67.352	1.00	0.00	C
ATOM	7461	C MET C 878	98.877	49.438	68.434	1.00	0.00	C
ATOM	7462	O MET C 878	99.124	49.994	69.503	1.00	0.00	O
ATOM	7463	CB MET C 878	96.696	49.638	67.370	1.00	0.00	C
ATOM	7464	CG MET C 878	95.778	50.340	66.367	1.00	0.00	C
ATOM	7465	SD MET C 878	94.059	49.743	66.362	1.00	0.00	S
ATOM	7466	CE MET C 878	94.462	48.123	65.641	1.00	0.00	C
ATOM	7467	N VAL C 879	99.266	48.176	68.179	1.00	0.00	N
ATOM	7468	CA VAL C 879	99.926	47.399	69.188	1.00	0.00	C
ATOM	7469	C VAL C 879	101.241	48.029	69.520	1.00	0.00	C
ATOM	7470	O VAL C 879	101.627	48.094	70.685	1.00	0.00	O
ATOM	7471	CB VAL C 879	100.189	45.978	68.782	1.00	0.00	C
ATOM	7472	CG1 VAL C 879	101.159	45.961	67.590	1.00	0.00	C
ATOM	7473	CG2 VAL C 879	100.723	45.227	70.013	1.00	0.00	C

ATOM	7474	N	ALA	C	880	101.959	48.521	68.495	1.00	0.00	N
ATOM	7475	CA	ALA	C	880	103.260	49.088	68.698	1.00	0.00	C
ATOM	7476	C	ALA	C	880	103.135	50.278	69.591	1.00	0.00	C
ATOM	7477	O	ALA	C	880	103.942	50.477	70.496	1.00	0.00	O
ATOM	7478	CB	ALA	C	880	103.908	49.564	67.386	1.00	0.00	C
ATOM	7479	N	PHE	C	881	102.106	51.107	69.361	1.00	0.00	N
ATOM	7480	CA	PHE	C	881	101.930	52.290	70.146	1.00	0.00	C
ATOM	7481	C	PHE	C	881	101.681	51.873	71.558	1.00	0.00	C
ATOM	7482	O	PHE	C	881	102.250	52.434	72.494	1.00	0.00	O
ATOM	7483	CB	PHE	C	881	100.720	53.118	69.677	1.00	0.00	C
ATOM	7484	CG	PHE	C	881	100.589	54.330	70.528	1.00	0.00	C
ATOM	7485	CD1	PHE	C	881	101.358	55.447	70.282	1.00	0.00	C
ATOM	7486	CD2	PHE	C	881	99.687	54.367	71.567	1.00	0.00	C
ATOM	7487	CE1	PHE	C	881	101.237	56.571	71.064	1.00	0.00	C
ATOM	7488	CE2	PHE	C	881	99.562	55.488	72.352	1.00	0.00	C
ATOM	7489	CZ	PHE	C	881	100.336	56.594	72.104	1.00	0.00	C
ATOM	7490	N	GLY	C	882	100.830	50.846	71.742	1.00	0.00	N
ATOM	7491	CA	GLY	C	882	100.459	50.417	73.054	1.00	0.00	C
ATOM	7492	C	GLY	C	882	101.666	49.948	73.799	1.00	0.00	C
ATOM	7493	O	GLY	C	882	101.821	50.251	74.983	1.00	0.00	O
ATOM	7494	N	VAL	C	883	102.551	49.178	73.141	1.00	0.00	N
ATOM	7495	CA	VAL	C	883	103.698	48.694	73.844	1.00	0.00	C
ATOM	7496	C	VAL	C	883	104.554	49.857	74.228	1.00	0.00	C
ATOM	7497	O	VAL	C	883	105.107	49.897	75.324	1.00	0.00	O
ATOM	7498	CB	VAL	C	883	104.523	47.694	73.081	1.00	0.00	C
ATOM	7499	CG1	VAL	C	883	103.659	46.448	72.841	1.00	0.00	C
ATOM	7500	CG2	VAL	C	883	105.047	48.328	71.788	1.00	0.00	C
ATOM	7501	N	ALA	C	884	104.673	50.853	73.333	1.00	0.00	N
ATOM	7502	CA	ALA	C	884	105.510	51.984	73.614	1.00	0.00	C
ATOM	7503	C	ALA	C	884	104.977	52.688	74.824	1.00	0.00	C
ATOM	7504	O	ALA	C	884	105.737	53.084	75.706	1.00	0.00	O
ATOM	7505	CB	ALA	C	884	105.532	53.004	72.462	1.00	0.00	C
ATOM	7506	N	ARG	C	885	103.645	52.852	74.905	1.00	0.00	N
ATOM	7507	CA	ARG	C	885	103.050	53.566	75.998	1.00	0.00	C
ATOM	7508	C	ARG	C	885	103.309	52.831	77.271	1.00	0.00	C
ATOM	7509	O	ARG	C	885	103.638	53.436	78.289	1.00	0.00	O
ATOM	7510	CB	ARG	C	885	101.523	53.703	75.871	1.00	0.00	C
ATOM	7511	CG	ARG	C	885	101.080	54.612	74.724	1.00	0.00	C
ATOM	7512	CD	ARG	C	885	100.777	56.050	75.154	1.00	0.00	C
ATOM	7513	NE	ARG	C	885	102.075	56.760	75.333	1.00	0.00	N
ATOM	7514	CZ	ARG	C	885	102.665	56.806	76.565	1.00	0.00	C
ATOM	7515	NH1	ARG	C	885	102.067	56.200	77.631	1.00	0.00	N
ATOM	7516	NH2	ARG	C	885	103.853	57.460	76.732	1.00	0.00	N
ATOM	7517	N	GLN	C	886	103.180	51.493	77.245	1.00	0.00	N

ATOM	7518	CA	GLN	C	886	103.351	50.760	78.461	1.00	0.00	C
ATOM	7519	C	GLN	C	886	104.750	50.970	78.931	1.00	0.00	C
ATOM	7520	O	GLN	C	886	104.987	51.167	80.122	1.00	0.00	O
ATOM	7521	CB	GLN	C	886	103.158	49.251	78.287	1.00	0.00	C
ATOM	7522	CG	GLN	C	886	103.212	48.490	79.610	1.00	0.00	C
ATOM	7523	CD	GLN	C	886	103.295	47.019	79.255	1.00	0.00	C
ATOM	7524	NE2	GLN	C	886	102.971	46.129	80.231	1.00	0.00	N
ATOM	7525	OE1	GLN	C	886	103.661	46.679	78.132	1.00	0.00	O
ATOM	7526	N	GLY	C	887	105.718	50.944	77.997	1.00	0.00	N
ATOM	7527	CA	GLY	C	887	107.091	51.092	78.376	1.00	0.00	C
ATOM	7528	C	GLY	C	887	107.282	52.443	78.987	1.00	0.00	C
ATOM	7529	O	GLY	C	887	107.979	52.589	79.991	1.00	0.00	O
ATOM	7530	N	ILE	C	888	106.669	53.474	78.383	1.00	0.00	N
ATOM	7531	CA	ILE	C	888	106.825	54.814	78.859	1.00	0.00	C
ATOM	7532	C	ILE	C	888	106.230	54.947	80.224	1.00	0.00	C
ATOM	7533	O	ILE	C	888	106.837	55.539	81.116	1.00	0.00	O
ATOM	7534	CB	ILE	C	888	106.134	55.823	77.985	1.00	0.00	C
ATOM	7535	CG1	ILE	C	888	106.756	55.836	76.581	1.00	0.00	C
ATOM	7536	CG2	ILE	C	888	106.189	57.182	78.701	1.00	0.00	C
ATOM	7537	CD1	ILE	C	888	108.236	56.221	76.572	1.00	0.00	C
ATOM	7538	N	LEU	C	889	105.030	54.376	80.430	1.00	0.00	N
ATOM	7539	CA	LEU	C	889	104.329	54.587	81.659	1.00	0.00	C
ATOM	7540	C	LEU	C	889	105.121	54.070	82.816	1.00	0.00	C
ATOM	7541	O	LEU	C	889	105.344	54.787	83.788	1.00	0.00	O
ATOM	7542	CB	LEU	C	889	102.969	53.861	81.699	1.00	0.00	C
ATOM	7543	CG	LEU	C	889	101.981	54.321	80.614	1.00	0.00	C
ATOM	7544	CD1	LEU	C	889	100.647	53.563	80.715	1.00	0.00	C
ATOM	7545	CD2	LEU	C	889	101.804	55.847	80.625	1.00	0.00	C
ATOM	7546	N	ARG	C	890	105.590	52.811	82.740	1.00	0.00	N
ATOM	7547	CA	ARG	C	890	106.290	52.273	83.865	1.00	0.00	C
ATOM	7548	C	ARG	C	890	107.025	51.069	83.383	1.00	0.00	C
ATOM	7549	O	ARG	C	890	106.914	50.685	82.220	1.00	0.00	O
ATOM	7550	CB	ARG	C	890	105.345	51.802	84.983	1.00	0.00	C
ATOM	7551	CG	ARG	C	890	104.385	50.703	84.519	1.00	0.00	C
ATOM	7552	CD	ARG	C	890	103.299	50.343	85.533	1.00	0.00	C
ATOM	7553	NE	ARG	C	890	102.160	51.281	85.330	1.00	0.00	N
ATOM	7554	CZ	ARG	C	890	102.064	52.418	86.080	1.00	0.00	C
ATOM	7555	NH1	ARG	C	890	103.006	52.690	87.032	1.00	0.00	N
ATOM	7556	NH2	ARG	C	890	101.023	53.279	85.883	1.00	0.00	N
ATOM	7557	N	GLN	C	891	107.819	50.442	84.271	1.00	0.00	N
ATOM	7558	CA	GLN	C	891	108.502	49.258	83.855	1.00	0.00	C
ATOM	7559	C	GLN	C	891	107.467	48.198	83.692	1.00	0.00	C
ATOM	7560	O	GLN	C	891	106.440	48.204	84.372	1.00	0.00	O
ATOM	7561	CB	GLN	C	891	109.584	48.765	84.835	1.00	0.00	C

ATOM	7562	CG	GLN	C	891	109.069	48.439	86.237	1.00	0.00	C
ATOM	7563	CD	GLN	C	891	109.033	49.743	87.017	1.00	0.00	C
ATOM	7564	NE2	GLN	C	891	109.881	50.720	86.595	1.00	0.00	N
ATOM	7565	OE1	GLN	C	891	108.278	49.891	87.976	1.00	0.00	O
ATOM	7566	N	ASN	C	892	107.700	47.272	82.745	1.00	0.00	N
ATOM	7567	CA	ASN	C	892	106.746	46.237	82.496	1.00	0.00	C
ATOM	7568	C	ASN	C	892	106.770	45.361	83.688	1.00	0.00	C
ATOM	7569	O	ASN	C	892	107.807	45.182	84.326	1.00	0.00	O
ATOM	7570	CB	ASN	C	892	107.101	45.367	81.281	1.00	0.00	C
ATOM	7571	CG	ASN	C	892	107.077	46.262	80.053	1.00	0.00	C
ATOM	7572	ND2	ASN	C	892	106.023	46.111	79.211	1.00	0.00	N
ATOM	7573	OD1	ASN	C	892	107.976	47.076	79.844	1.00	0.00	O
ATOM	7574	N	GLU	C	893	105.614	44.784	84.043	1.00	0.00	N
ATOM	7575	CA	GLU	C	893	105.690	43.957	85.200	1.00	0.00	C
ATOM	7576	C	GLU	C	893	106.199	42.621	84.746	1.00	0.00	C
ATOM	7577	O	GLU	C	893	105.465	41.893	84.060	1.00	0.00	O
ATOM	7578	CB	GLU	C	893	104.346	43.770	85.896	1.00	0.00	C
ATOM	7579	CG	GLU	C	893	104.409	43.108	87.265	1.00	0.00	C
ATOM	7580	CD	GLU	C	893	104.737	44.177	88.298	1.00	0.00	C
ATOM	7581	OE1	GLU	C	893	104.805	45.373	87.914	1.00	0.00	O
ATOM	7582	OE2	GLU	C	893	104.920	43.809	89.490	1.00	0.00	O
ATOM	7583	N	GLN	C	894	107.486	42.322	85.106	1.00	0.00	N
ATOM	7584	CA	GLN	C	894	108.205	41.113	84.785	1.00	0.00	C
ATOM	7585	C	GLN	C	894	107.576	39.982	85.520	1.00	0.00	C
ATOM	7586	O	GLN	C	894	107.340	38.913	84.956	1.00	0.00	O
ATOM	7587	CB	GLN	C	894	109.691	41.162	85.174	1.00	0.00	C
ATOM	7588	CG	GLN	C	894	109.946	41.255	86.679	1.00	0.00	C
ATOM	7589	CD	GLN	C	894	111.452	41.292	86.890	1.00	0.00	C
ATOM	7590	NE2	GLN	C	894	112.122	42.313	86.288	1.00	0.00	N
ATOM	7591	OE1	GLN	C	894	112.019	40.436	87.565	1.00	0.00	O
ATOM	7592	N	ARG	C	895	107.282	40.197	86.814	1.00	0.00	N
ATOM	7593	CA	ARG	C	895	106.649	39.155	87.556	1.00	0.00	C
ATOM	7594	C	ARG	C	895	105.323	38.922	86.925	1.00	0.00	C
ATOM	7595	O	ARG	C	895	104.930	37.781	86.692	1.00	0.00	O
ATOM	7596	CB	ARG	C	895	106.381	39.515	89.024	1.00	0.00	C
ATOM	7597	CG	ARG	C	895	107.631	39.513	89.907	1.00	0.00	C
ATOM	7598	CD	ARG	C	895	108.320	38.146	89.961	1.00	0.00	C
ATOM	7599	NE	ARG	C	895	109.234	38.146	91.136	1.00	0.00	N
ATOM	7600	CZ	ARG	C	895	110.484	38.692	91.047	1.00	0.00	C
ATOM	7601	NH1	ARG	C	895	110.885	39.305	89.896	1.00	0.00	N
ATOM	7602	NH2	ARG	C	895	111.329	38.626	92.116	1.00	0.00	N
ATOM	7603	N	TRP	C	896	104.599	40.013	86.611	1.00	0.00	N
ATOM	7604	CA	TRP	C	896	103.298	39.816	86.050	1.00	0.00	C
ATOM	7605	C	TRP	C	896	103.323	40.278	84.633	1.00	0.00	C

ATOM	7606	O	TRP	C	896	102.878	41.384	84.317	1.00	0.00	O
ATOM	7607	CB	TRP	C	896	102.223	40.614	86.804	1.00	0.00	C
ATOM	7608	CG	TRP	C	896	101.956	40.125	88.212	1.00	0.00	C
ATOM	7609	CD1	TRP	C	896	100.982	39.282	88.660	1.00	0.00	C
ATOM	7610	CD2	TRP	C	896	102.733	40.490	89.365	1.00	0.00	C
ATOM	7611	CE2	TRP	C	896	102.172	39.841	90.465	1.00	0.00	C
ATOM	7612	CE3	TRP	C	896	103.824	41.295	89.500	1.00	0.00	C
ATOM	7613	NE1	TRP	C	896	101.100	39.103	90.018	1.00	0.00	N
ATOM	7614	CZ2	TRP	C	896	102.702	39.989	91.717	1.00	0.00	C
ATOM	7615	CZ3	TRP	C	896	104.352	41.446	90.764	1.00	0.00	C
ATOM	7616	CH2	TRP	C	896	103.800	40.808	91.854	1.00	0.00	C
ATOM	7617	N	ARG	C	897	103.857	39.432	83.733	1.00	0.00	N
ATOM	7618	CA	ARG	C	897	103.883	39.773	82.344	1.00	0.00	C
ATOM	7619	C	ARG	C	897	102.484	39.739	81.832	1.00	0.00	C
ATOM	7620	O	ARG	C	897	102.061	40.595	81.059	1.00	0.00	O
ATOM	7621	CB	ARG	C	897	104.680	38.783	81.487	1.00	0.00	C
ATOM	7622	CG	ARG	C	897	104.795	39.269	80.043	1.00	0.00	C
ATOM	7623	CD	ARG	C	897	105.305	38.229	79.052	1.00	0.00	C
ATOM	7624	NE	ARG	C	897	105.540	38.947	77.769	1.00	0.00	N
ATOM	7625	CZ	ARG	C	897	105.302	38.336	76.570	1.00	0.00	C
ATOM	7626	NH1	ARG	C	897	104.796	37.067	76.535	1.00	0.00	N
ATOM	7627	NH2	ARG	C	897	105.566	39.000	75.407	1.00	0.00	N
ATOM	7628	N	TRP	C	898	101.728	38.724	82.280	1.00	0.00	N
ATOM	7629	CA	TRP	C	898	100.403	38.507	81.785	1.00	0.00	C
ATOM	7630	C	TRP	C	898	99.530	39.669	82.109	1.00	0.00	C
ATOM	7631	O	TRP	C	898	98.868	40.217	81.226	1.00	0.00	O
ATOM	7632	CB	TRP	C	898	99.717	37.284	82.416	1.00	0.00	C
ATOM	7633	CG	TRP	C	898	100.364	35.963	82.093	1.00	0.00	C
ATOM	7634	CD1	TRP	C	898	101.093	35.135	82.895	1.00	0.00	C
ATOM	7635	CD2	TRP	C	898	100.316	35.341	80.800	1.00	0.00	C
ATOM	7636	CE2	TRP	C	898	101.031	34.148	80.892	1.00	0.00	C
ATOM	7637	CE3	TRP	C	898	99.734	35.737	79.631	1.00	0.00	C
ATOM	7638	NE1	TRP	C	898	101.499	34.033	82.186	1.00	0.00	N
ATOM	7639	CZ2	TRP	C	898	101.170	33.326	79.813	1.00	0.00	C
ATOM	7640	CZ3	TRP	C	898	99.876	34.903	78.544	1.00	0.00	C
ATOM	7641	CH2	TRP	C	898	100.580	33.721	78.634	1.00	0.00	C
ATOM	7642	N	ILE	C	899	99.505	40.090	83.385	1.00	0.00	N
ATOM	7643	CA	ILE	C	899	98.573	41.120	83.732	1.00	0.00	C
ATOM	7644	C	ILE	C	899	98.931	42.387	83.030	1.00	0.00	C
ATOM	7645	O	ILE	C	899	98.065	43.047	82.459	1.00	0.00	O
ATOM	7646	CB	ILE	C	899	98.470	41.379	85.211	1.00	0.00	C
ATOM	7647	CG1	ILE	C	899	97.284	42.308	85.516	1.00	0.00	C
ATOM	7648	CG2	ILE	C	899	99.816	41.907	85.712	1.00	0.00	C
ATOM	7649	CD1	ILE	C	899	96.955	42.408	87.005	1.00	0.00	C

ATOM	7650	N	PHE	C	900	100.225	42.756	83.035	1.00	0.00	N
ATOM	7651	CA	PHE	C	900	100.614	43.982	82.407	1.00	0.00	C
ATOM	7652	C	PHE	C	900	100.356	43.922	80.941	1.00	0.00	C
ATOM	7653	O	PHE	C	900	99.844	44.882	80.374	1.00	0.00	O
ATOM	7654	CB	PHE	C	900	102.084	44.329	82.670	1.00	0.00	C
ATOM	7655	CG	PHE	C	900	102.098	44.894	84.047	1.00	0.00	C
ATOM	7656	CD1	PHE	C	900	101.579	44.174	85.095	1.00	0.00	C
ATOM	7657	CD2	PHE	C	900	102.549	46.173	84.276	1.00	0.00	C
ATOM	7658	CE1	PHE	C	900	101.583	44.686	86.371	1.00	0.00	C
ATOM	7659	CE2	PHE	C	900	102.554	46.692	85.550	1.00	0.00	C
ATOM	7660	CZ	PHE	C	900	102.079	45.947	86.602	1.00	0.00	C
ATOM	7661	N	ARG	C	901	100.694	42.794	80.285	1.00	0.00	N
ATOM	7662	CA	ARG	C	901	100.494	42.729	78.862	1.00	0.00	C
ATOM	7663	C	ARG	C	901	99.036	42.867	78.570	1.00	0.00	C
ATOM	7664	O	ARG	C	901	98.644	43.611	77.674	1.00	0.00	O
ATOM	7665	CB	ARG	C	901	100.956	41.409	78.225	1.00	0.00	C
ATOM	7666	CG	ARG	C	901	100.851	41.433	76.695	1.00	0.00	C
ATOM	7667	CD	ARG	C	901	101.302	40.143	76.010	1.00	0.00	C
ATOM	7668	NE	ARG	C	901	100.094	39.296	75.802	1.00	0.00	N
ATOM	7669	CZ	ARG	C	901	99.718	38.397	76.757	1.00	0.00	C
ATOM	7670	NH1	ARG	C	901	100.458	38.262	77.897	1.00	0.00	N
ATOM	7671	NH2	ARG	C	901	98.601	37.633	76.572	1.00	0.00	N
ATOM	7672	N	SER	C	902	98.188	42.156	79.338	1.00	0.00	N
ATOM	7673	CA	SER	C	902	96.777	42.199	79.079	1.00	0.00	C
ATOM	7674	C	SER	C	902	96.310	43.599	79.281	1.00	0.00	C
ATOM	7675	O	SER	C	902	95.503	44.115	78.510	1.00	0.00	O
ATOM	7676	CB	SER	C	902	95.974	41.291	80.032	1.00	0.00	C
ATOM	7677	OG	SER	C	902	96.094	41.752	81.372	1.00	0.00	O
ATOM	7678	N	VAL	C	903	96.836	44.261	80.323	1.00	0.00	N
ATOM	7679	CA	VAL	C	903	96.435	45.602	80.623	1.00	0.00	C
ATOM	7680	C	VAL	C	903	96.828	46.466	79.473	1.00	0.00	C
ATOM	7681	O	VAL	C	903	96.114	47.403	79.122	1.00	0.00	O
ATOM	7682	CB	VAL	C	903	97.097	46.154	81.851	1.00	0.00	C
ATOM	7683	CG1	VAL	C	903	96.748	47.647	81.968	1.00	0.00	C
ATOM	7684	CG2	VAL	C	903	96.648	45.320	83.061	1.00	0.00	C
ATOM	7685	N	ILE	C	904	97.990	46.174	78.858	1.00	0.00	N
ATOM	7686	CA	ILE	C	904	98.460	46.994	77.784	1.00	0.00	C
ATOM	7687	C	ILE	C	904	97.480	46.895	76.662	1.00	0.00	C
ATOM	7688	O	ILE	C	904	97.123	47.891	76.037	1.00	0.00	O
ATOM	7689	CB	ILE	C	904	99.669	46.442	77.090	1.00	0.00	C
ATOM	7690	CG1	ILE	C	904	100.761	45.953	78.034	1.00	0.00	C
ATOM	7691	CG2	ILE	C	904	100.178	47.546	76.152	1.00	0.00	C
ATOM	7692	CD1	ILE	C	904	101.693	44.975	77.319	1.00	0.00	C
ATOM	7693	N	TYR	C	905	97.095	45.652	76.314	1.00	0.00	N

ATOM	7694	CA	TYR	C	905	96.256	45.453	75.169	1.00	0.00	C
ATOM	7695	C	TYR	C	905	94.818	45.855	75.327	1.00	0.00	C
ATOM	7696	O	TYR	C	905	94.325	46.699	74.580	1.00	0.00	O
ATOM	7697	CB	TYR	C	905	96.257	43.992	74.693	1.00	0.00	C
ATOM	7698	CG	TYR	C	905	97.591	43.727	74.085	1.00	0.00	C
ATOM	7699	CD1	TYR	C	905	98.697	43.502	74.870	1.00	0.00	C
ATOM	7700	CD2	TYR	C	905	97.725	43.704	72.715	1.00	0.00	C
ATOM	7701	CE1	TYR	C	905	99.923	43.264	74.291	1.00	0.00	C
ATOM	7702	CE2	TYR	C	905	98.946	43.464	72.135	1.00	0.00	C
ATOM	7703	CZ	TYR	C	905	100.048	43.243	72.924	1.00	0.00	C
ATOM	7704	OH	TYR	C	905	101.304	43.000	72.329	1.00	0.00	O
ATOM	7705	N	GLU	C	906	94.110	45.305	76.329	1.00	0.00	N
ATOM	7706	CA	GLU	C	906	92.679	45.453	76.301	1.00	0.00	C
ATOM	7707	C	GLU	C	906	92.195	46.851	76.516	1.00	0.00	C
ATOM	7708	O	GLU	C	906	91.385	47.331	75.727	1.00	0.00	O
ATOM	7709	CB	GLU	C	906	91.944	44.525	77.285	1.00	0.00	C
ATOM	7710	CG	GLU	C	906	90.428	44.553	77.089	1.00	0.00	C
ATOM	7711	CD	GLU	C	906	90.143	43.986	75.705	1.00	0.00	C
ATOM	7712	OE1	GLU	C	906	90.726	42.919	75.374	1.00	0.00	O
ATOM	7713	OE2	GLU	C	906	89.347	44.616	74.960	1.00	0.00	O
ATOM	7714	N	PRO	C	907	92.629	47.548	77.524	1.00	0.00	N
ATOM	7715	CA	PRO	C	907	92.094	48.867	77.702	1.00	0.00	C
ATOM	7716	C	PRO	C	907	92.554	49.786	76.623	1.00	0.00	C
ATOM	7717	O	PRO	C	907	91.839	50.733	76.302	1.00	0.00	O
ATOM	7718	CB	PRO	C	907	92.495	49.294	79.111	1.00	0.00	C
ATOM	7719	CG	PRO	C	907	92.591	47.960	79.872	1.00	0.00	C
ATOM	7720	CD	PRO	C	907	92.976	46.932	78.798	1.00	0.00	C
ATOM	7721	N	TYR	C	908	93.756	49.539	76.079	1.00	0.00	N
ATOM	7722	CA	TYR	C	908	94.307	50.382	75.062	1.00	0.00	C
ATOM	7723	C	TYR	C	908	93.547	50.271	73.787	1.00	0.00	C
ATOM	7724	O	TYR	C	908	93.357	51.268	73.092	1.00	0.00	O
ATOM	7725	CB	TYR	C	908	95.818	50.193	74.857	1.00	0.00	C
ATOM	7726	CG	TYR	C	908	96.431	50.931	76.005	1.00	0.00	C
ATOM	7727	CD1	TYR	C	908	96.743	52.266	75.873	1.00	0.00	C
ATOM	7728	CD2	TYR	C	908	96.671	50.318	77.212	1.00	0.00	C
ATOM	7729	CE1	TYR	C	908	97.299	52.968	76.915	1.00	0.00	C
ATOM	7730	CE2	TYR	C	908	97.228	51.010	78.261	1.00	0.00	C
ATOM	7731	CZ	TYR	C	908	97.544	52.338	78.112	1.00	0.00	C
ATOM	7732	OH	TYR	C	908	98.116	53.057	79.183	1.00	0.00	O
ATOM	7733	N	LEU	C	909	93.114	49.061	73.394	1.00	0.00	N
ATOM	7734	CA	LEU	C	909	92.314	49.053	72.209	1.00	0.00	C
ATOM	7735	C	LEU	C	909	91.054	49.804	72.514	1.00	0.00	C
ATOM	7736	O	LEU	C	909	90.573	50.585	71.695	1.00	0.00	O
ATOM	7737	CB	LEU	C	909	91.927	47.648	71.708	1.00	0.00	C

ATOM	7738	CG	LEU	C	909	93.055	46.909	70.960	1.00	0.00	C
ATOM	7739	CD1	LEU	C	909	93.414	47.644	69.658	1.00	0.00	C
ATOM	7740	CD2	LEU	C	909	94.280	46.649	71.844	1.00	0.00	C
ATOM	7741	N	ALA	C	910	90.496	49.580	73.720	1.00	0.00	N
ATOM	7742	CA	ALA	C	910	89.234	50.150	74.101	1.00	0.00	C
ATOM	7743	C	ALA	C	910	89.245	51.651	74.205	1.00	0.00	C
ATOM	7744	O	ALA	C	910	88.392	52.308	73.612	1.00	0.00	O
ATOM	7745	CB	ALA	C	910	88.738	49.602	75.451	1.00	0.00	C
ATOM	7746	N	MET	C	911	90.211	52.258	74.930	1.00	0.00	N
ATOM	7747	CA	MET	C	911	90.112	53.686	75.100	1.00	0.00	C
ATOM	7748	C	MET	C	911	91.450	54.207	75.483	1.00	0.00	C
ATOM	7749	O	MET	C	911	92.478	53.592	75.219	1.00	0.00	O
ATOM	7750	CB	MET	C	911	89.189	54.142	76.245	1.00	0.00	C
ATOM	7751	CG	MET	C	911	87.707	53.792	76.102	1.00	0.00	C
ATOM	7752	SD	MET	C	911	87.273	52.080	76.523	1.00	0.00	S
ATOM	7753	CE	MET	C	911	85.487	52.396	76.603	1.00	0.00	C
ATOM	7754	N	PHE	C	912	91.473	55.415	76.083	1.00	0.00	N
ATOM	7755	CA	PHE	C	912	92.746	55.901	76.505	1.00	0.00	C
ATOM	7756	C	PHE	C	912	92.569	56.547	77.838	1.00	0.00	C
ATOM	7757	O	PHE	C	912	91.756	57.459	77.985	1.00	0.00	O
ATOM	7758	CB	PHE	C	912	93.328	56.913	75.509	1.00	0.00	C
ATOM	7759	CG	PHE	C	912	93.389	56.159	74.225	1.00	0.00	C
ATOM	7760	CD1	PHE	C	912	92.290	56.117	73.395	1.00	0.00	C
ATOM	7761	CD2	PHE	C	912	94.522	55.472	73.857	1.00	0.00	C
ATOM	7762	CE1	PHE	C	912	92.323	55.417	72.215	1.00	0.00	C
ATOM	7763	CE2	PHE	C	912	94.562	54.771	72.676	1.00	0.00	C
ATOM	7764	CZ	PHE	C	912	93.463	54.744	71.854	1.00	0.00	C
ATOM	7765	N	GLY	C	913	93.316	56.088	78.867	1.00	0.00	N
ATOM	7766	CA	GLY	C	913	94.208	54.960	78.801	1.00	0.00	C
ATOM	7767	C	GLY	C	913	93.785	53.969	79.851	1.00	0.00	C
ATOM	7768	O	GLY	C	913	92.601	53.701	80.046	1.00	0.00	O
ATOM	7769	N	GLN	C	914	94.778	53.390	80.562	1.00	0.00	N
ATOM	7770	CA	GLN	C	914	94.538	52.450	81.625	1.00	0.00	C
ATOM	7771	C	GLN	C	914	94.202	53.235	82.850	1.00	0.00	C
ATOM	7772	O	GLN	C	914	94.351	54.457	82.850	1.00	0.00	O
ATOM	7773	CB	GLN	C	914	95.762	51.569	81.939	1.00	0.00	C
ATOM	7774	CG	GLN	C	914	95.587	50.646	83.145	1.00	0.00	C
ATOM	7775	CD	GLN	C	914	94.438	49.694	82.867	1.00	0.00	C
ATOM	7776	NE2	GLN	C	914	94.030	48.920	83.908	1.00	0.00	N
ATOM	7777	OE1	GLN	C	914	93.913	49.641	81.755	1.00	0.00	O
ATOM	7778	N	VAL	C	915	93.656	52.563	83.892	1.00	0.00	N
ATOM	7779	CA	VAL	C	915	93.386	53.211	85.146	1.00	0.00	C
ATOM	7780	C	VAL	C	915	94.046	52.447	86.263	1.00	0.00	C
ATOM	7781	O	VAL	C	915	93.510	51.474	86.786	1.00	0.00	O

ATOM	7782	CB VAL C 915	91.917	53.326	85.448	1.00	0.00	C
ATOM	7783	CG1 VAL C 915	91.303	54.374	84.506	1.00	0.00	C
ATOM	7784	CG2 VAL C 915	91.272	51.943	85.275	1.00	0.00	C
ATOM	7785	N PRO C 916	96.162	52.849	85.483	1.00	0.00	N
ATOM	7786	CA PRO C 916	96.772	52.160	86.589	1.00	0.00	C
ATOM	7787	C PRO C 916	96.107	52.604	87.849	1.00	0.00	C
ATOM	7788	O PRO C 916	95.539	53.694	87.871	1.00	0.00	O
ATOM	7789	CB PRO C 916	98.258	52.495	86.524	1.00	0.00	C
ATOM	7790	CG PRO C 916	98.505	52.755	85.027	1.00	0.00	C
ATOM	7791	CD PRO C 916	97.151	53.280	84.508	1.00	0.00	C
ATOM	7792	N SER C 917	96.158	51.782	88.908	1.00	0.00	N
ATOM	7793	CA SER C 917	95.541	52.211	90.124	1.00	0.00	C
ATOM	7794	C SER C 917	96.332	53.383	90.595	1.00	0.00	C
ATOM	7795	O SER C 917	97.451	53.613	90.138	1.00	0.00	O
ATOM	7796	CB SER C 917	95.552	51.151	91.238	1.00	0.00	C
ATOM	7797	OG SER C 917	94.756	50.041	90.853	1.00	0.00	O
ATOM	7798	N ASP C 918	95.768	54.150	91.544	1.00	0.00	N
ATOM	7799	CA ASP C 918	96.404	55.361	91.979	1.00	0.00	C
ATOM	7800	C ASP C 918	97.784	55.059	92.457	1.00	0.00	C
ATOM	7801	O ASP C 918	98.071	53.981	92.973	1.00	0.00	O
ATOM	7802	CB ASP C 918	95.652	56.090	93.105	1.00	0.00	C
ATOM	7803	CG ASP C 918	94.403	56.719	92.506	1.00	0.00	C
ATOM	7804	OD1 ASP C 918	94.290	56.740	91.253	1.00	0.00	O
ATOM	7805	OD2 ASP C 918	93.543	57.191	93.294	1.00	0.00	O
ATOM	7806	N VAL C 919	98.685	56.046	92.274	1.00	0.00	N
ATOM	7807	CA VAL C 919	100.064	55.871	92.609	1.00	0.00	C
ATOM	7808	C VAL C 919	100.235	56.062	94.075	1.00	0.00	C
ATOM	7809	O VAL C 919	100.018	57.143	94.621	1.00	0.00	O
ATOM	7810	CB VAL C 919	100.966	56.821	91.871	1.00	0.00	C
ATOM	7811	CG1 VAL C 919	100.532	58.266	92.172	1.00	0.00	C
ATOM	7812	CG2 VAL C 919	102.418	56.512	92.262	1.00	0.00	C
ATOM	7813	N ASP C 920	100.633	54.973	94.754	1.00	0.00	N
ATOM	7814	CA ASP C 920	100.865	55.052	96.161	1.00	0.00	C
ATOM	7815	C ASP C 920	102.290	55.436	96.315	1.00	0.00	C
ATOM	7816	O ASP C 920	103.187	54.602	96.202	1.00	0.00	O
ATOM	7817	CB ASP C 920	100.693	53.713	96.895	1.00	0.00	C
ATOM	7818	CG ASP C 920	100.971	53.960	98.370	1.00	0.00	C
ATOM	7819	OD1 ASP C 920	100.996	55.154	98.773	1.00	0.00	O
ATOM	7820	OD2 ASP C 920	101.169	52.963	99.111	1.00	0.00	O
ATOM	7821	N GLY C 921	102.541	56.726	96.568	1.00	0.00	N
ATOM	7822	CA GLY C 921	103.901	57.093	96.751	1.00	0.00	C
ATOM	7823	C GLY C 921	104.255	56.504	98.068	1.00	0.00	C
ATOM	7824	O GLY C 921	103.392	56.009	98.790	1.00	0.00	O
ATOM	7825	N THR C 922	105.547	56.499	98.407	1.00	0.00	N

ATOM	7826	CA	THR	C	922	105.888	56.015	99.703	1.00	0.00	C
ATOM	7827	C	THR	C	922	105.294	57.013	100.637	1.00	0.00	C
ATOM	7828	O	THR	C	922	104.931	56.698	101.769	1.00	0.00	O
ATOM	7829	CB	THR	C	922	107.365	55.964	99.951	1.00	0.00	C
ATOM	7830	CG2	THR	C	922	107.916	57.398	99.994	1.00	0.00	C
ATOM	7831	OG1	THR	C	922	107.631	55.295	101.176	1.00	0.00	O
ATOM	7832	N	THR	C	923	105.189	58.262	100.144	1.00	0.00	N
ATOM	7833	CA	THR	C	923	104.738	59.401	100.885	1.00	0.00	C
ATOM	7834	C	THR	C	923	103.273	59.281	101.157	1.00	0.00	C
ATOM	7835	O	THR	C	923	102.553	58.548	100.481	1.00	0.00	O
ATOM	7836	CB	THR	C	923	104.963	60.675	100.123	1.00	0.00	C
ATOM	7837	CG2	THR	C	923	104.546	61.878	100.988	1.00	0.00	C
ATOM	7838	OG1	THR	C	923	106.333	60.788	99.781	1.00	0.00	O
ATOM	7839	N	TYR	C	924	102.801	60.017	102.184	1.00	0.00	N
ATOM	7840	CA	TYR	C	924	101.413	60.000	102.533	1.00	0.00	C
ATOM	7841	C	TYR	C	924	100.866	61.307	102.074	1.00	0.00	C
ATOM	7842	O	TYR	C	924	101.318	62.371	102.494	1.00	0.00	O
ATOM	7843	CB	TYR	C	924	101.158	59.916	104.050	1.00	0.00	C
ATOM	7844	CG	TYR	C	924	101.737	58.637	104.545	1.00	0.00	C
ATOM	7845	CD1	TYR	C	924	103.073	58.562	104.867	1.00	0.00	C
ATOM	7846	CD2	TYR	C	924	100.955	57.515	104.690	1.00	0.00	C
ATOM	7847	CE1	TYR	C	924	103.620	57.389	105.327	1.00	0.00	C
ATOM	7848	CE2	TYR	C	924	101.496	56.337	105.150	1.00	0.00	C
ATOM	7849	CZ	TYR	C	924	102.831	56.271	105.469	1.00	0.00	C
ATOM	7850	OH	TYR	C	924	103.390	55.065	105.941	1.00	0.00	O
ATOM	7851	N	ASP	C	925	99.886	61.236	101.161	1.00	0.00	N
ATOM	7852	CA	ASP	C	925	99.279	62.397	100.602	1.00	0.00	C
ATOM	7853	C	ASP	C	925	98.294	62.891	101.605	1.00	0.00	C
ATOM	7854	O	ASP	C	925	97.966	62.191	102.562	1.00	0.00	O
ATOM	7855	CB	ASP	C	925	98.499	62.067	99.316	1.00	0.00	C
ATOM	7856	CG	ASP	C	925	98.039	63.343	98.632	1.00	0.00	C
ATOM	7857	OD1	ASP	C	925	98.599	64.426	98.942	1.00	0.00	O
ATOM	7858	OD2	ASP	C	925	97.116	63.250	97.782	1.00	0.00	O
ATOM	7859	N	PHE	C	926	97.831	64.139	101.424	1.00	0.00	N
ATOM	7860	CA	PHE	C	926	96.793	64.627	102.264	1.00	0.00	C
ATOM	7861	C	PHE	C	926	95.557	64.043	101.680	1.00	0.00	C
ATOM	7862	O	PHE	C	926	95.496	63.778	100.481	1.00	0.00	O
ATOM	7863	CB	PHE	C	926	96.689	66.163	102.304	1.00	0.00	C
ATOM	7864	CG	PHE	C	926	96.448	66.667	100.923	1.00	0.00	C
ATOM	7865	CD1	PHE	C	926	97.470	66.685	100.004	1.00	0.00	C
ATOM	7866	CD2	PHE	C	926	95.212	67.146	100.554	1.00	0.00	C
ATOM	7867	CE1	PHE	C	926	97.263	67.158	98.729	1.00	0.00	C
ATOM	7868	CE2	PHE	C	926	94.998	67.620	99.281	1.00	0.00	C
ATOM	7869	CZ	PHE	C	926	96.023	67.623	98.364	1.00	0.00	C

ATOM	7870	N	ALA	C	927	94.540	63.794	102.518	1.00	0.00	N
ATOM	7871	CA	ALA	C	927	93.368	63.158	102.004	1.00	0.00	C
ATOM	7872	C	ALA	C	927	92.767	64.056	100.980	1.00	0.00	C
ATOM	7873	O	ALA	C	927	92.948	65.273	101.010	1.00	0.00	O
ATOM	7874	CB	ALA	C	927	92.299	62.877	103.072	1.00	0.00	C
HETATM	7875	N	HIE	C	928	92.057	63.461	100.012	1.00	0.00	N
HETATM	7876	CA	HIE	C	928	91.472	64.287	99.013	1.00	0.00	C
HETATM	7877	C	HIE	C	928	90.196	64.808	99.564	1.00	0.00	C
HETATM	7878	O	HIE	C	928	89.476	64.104	100.272	1.00	0.00	O
HETATM	7879	CB	HIE	C	928	91.172	63.558	97.692	1.00	0.00	C
HETATM	7880	CG	HIE	C	928	90.705	64.502	96.631	1.00	0.00	C
HETATM	7881	CD2	HIE	C	928	89.554	64.514	95.903	1.00	0.00	C
HETATM	7882	ND1	HIE	C	928	91.439	65.581	96.199	1.00	0.00	N
HETATM	7883	CE1	HIE	C	928	90.699	66.196	95.238	1.00	0.00	C
HETATM	7884	NE2	HIE	C	928	89.550	65.583	95.023	1.00	0.00	N
ATOM	7885	N	CYS	C	929	89.887	66.083	99.270	1.00	0.00	N
ATOM	7886	CA	CYS	C	929	88.661	66.615	99.769	1.00	0.00	C
ATOM	7887	C	CYS	C	929	87.575	65.863	99.080	1.00	0.00	C
ATOM	7888	O	CYS	C	929	87.669	65.559	97.891	1.00	0.00	O
ATOM	7889	CB	CYS	C	929	88.494	68.126	99.515	1.00	0.00	C
ATOM	7890	SG	CYS	C	929	88.675	68.569	97.766	1.00	0.00	S
ATOM	7891	N	THR	C	930	86.510	65.528	99.828	1.00	0.00	N
ATOM	7892	CA	THR	C	930	85.479	64.702	99.280	1.00	0.00	C
ATOM	7893	C	THR	C	930	84.855	65.388	98.109	1.00	0.00	C
ATOM	7894	O	THR	C	930	84.682	64.777	97.056	1.00	0.00	O
ATOM	7895	CB	THR	C	930	84.410	64.353	100.276	1.00	0.00	C
ATOM	7896	CG2	THR	C	930	83.675	65.629	100.725	1.00	0.00	C
ATOM	7897	OG1	THR	C	930	83.498	63.427	99.705	1.00	0.00	O
ATOM	7898	N	PHE	C	931	84.519	66.684	98.243	1.00	0.00	N
ATOM	7899	CA	PHE	C	931	83.928	67.350	97.127	1.00	0.00	C
ATOM	7900	C	PHE	C	931	85.045	67.583	96.169	1.00	0.00	C
ATOM	7901	O	PHE	C	931	86.183	67.801	96.580	1.00	0.00	O
ATOM	7902	CB	PHE	C	931	83.295	68.702	97.497	1.00	0.00	C
ATOM	7903	CG	PHE	C	931	82.218	68.393	98.479	1.00	0.00	C
ATOM	7904	CD1	PHE	C	931	82.521	68.228	99.809	1.00	0.00	C
ATOM	7905	CD2	PHE	C	931	80.909	68.260	98.073	1.00	0.00	C
ATOM	7906	CE1	PHE	C	931	81.535	67.936	100.726	1.00	0.00	C
ATOM	7907	CE2	PHE	C	931	79.922	67.971	98.986	1.00	0.00	C
ATOM	7908	CZ	PHE	C	931	80.231	67.809	100.314	1.00	0.00	C
ATOM	7909	N	THR	C	932	84.760	67.512	94.859	1.00	0.00	N
ATOM	7910	CA	THR	C	932	85.820	67.695	93.913	1.00	0.00	C
ATOM	7911	C	THR	C	932	85.932	69.155	93.629	1.00	0.00	C
ATOM	7912	O	THR	C	932	85.304	69.975	94.300	1.00	0.00	O
ATOM	7913	CB	THR	C	932	85.599	66.971	92.614	1.00	0.00	C

ATOM	7914	CG2 THR C 932	85.475	65.466	92.906	1.00	0.00	C
ATOM	7915	OG1 THR C 932	84.428	67.448	91.972	1.00	0.00	O
ATOM	7916	N GLY C 933	86.778	69.515	92.646	1.00	0.00	N
ATOM	7917	CA GLY C 933	86.959	70.893	92.289	1.00	0.00	C
ATOM	7918	C GLY C 933	87.193	70.941	90.813	1.00	0.00	C
ATOM	7919	O GLY C 933	87.629	69.959	90.214	1.00	0.00	O
ATOM	7920	N ASN C 934	86.903	72.101	90.186	1.00	0.00	N
ATOM	7921	CA ASN C 934	87.031	72.208	88.762	1.00	0.00	C
ATOM	7922	C ASN C 934	88.461	72.019	88.355	1.00	0.00	C
ATOM	7923	O ASN C 934	88.779	71.117	87.582	1.00	0.00	O
ATOM	7924	CB ASN C 934	86.587	73.587	88.238	1.00	0.00	C
ATOM	7925	CG ASN C 934	86.503	73.528	86.718	1.00	0.00	C
ATOM	7926	ND2 ASN C 934	87.580	72.999	86.077	1.00	0.00	N
ATOM	7927	OD1 ASN C 934	85.517	73.950	86.116	1.00	0.00	O
ATOM	7928	N GLU C 935	89.380	72.840	88.897	1.00	0.00	N
ATOM	7929	CA GLU C 935	90.744	72.691	88.483	1.00	0.00	C
ATOM	7930	C GLU C 935	91.509	72.249	89.678	1.00	0.00	C
ATOM	7931	O GLU C 935	91.141	72.561	90.810	1.00	0.00	O
ATOM	7932	CB GLU C 935	91.397	73.982	87.971	1.00	0.00	C
ATOM	7933	CG GLU C 935	92.806	73.741	87.422	1.00	0.00	C
ATOM	7934	CD GLU C 935	93.354	75.068	86.923	1.00	0.00	C
ATOM	7935	OE1 GLU C 935	92.561	75.853	86.336	1.00	0.00	O
ATOM	7936	OE2 GLU C 935	94.571	75.314	87.122	1.00	0.00	O
ATOM	7937	N SER C 936	92.591	71.484	89.455	1.00	0.00	N
ATOM	7938	CA SER C 936	93.321	71.008	90.586	1.00	0.00	C
ATOM	7939	C SER C 936	94.778	71.105	90.284	1.00	0.00	C
ATOM	7940	O SER C 936	95.182	71.247	89.129	1.00	0.00	O
ATOM	7941	CB SER C 936	93.017	69.538	90.917	1.00	0.00	C
ATOM	7942	OG SER C 936	93.764	69.116	92.048	1.00	0.00	O
ATOM	7943	N LYS C 937	95.610	71.081	91.344	1.00	0.00	N
ATOM	7944	CA LYS C 937	97.025	71.084	91.129	1.00	0.00	C
ATOM	7945	C LYS C 937	97.591	69.983	91.975	1.00	0.00	C
ATOM	7946	O LYS C 937	97.842	70.136	93.168	1.00	0.00	O
ATOM	7947	CB LYS C 937	97.696	72.405	91.535	1.00	0.00	C
ATOM	7948	CG LYS C 937	97.252	73.582	90.662	1.00	0.00	C
ATOM	7949	CD LYS C 937	97.560	73.390	89.177	1.00	0.00	C
ATOM	7950	CE LYS C 937	97.127	74.567	88.297	1.00	0.00	C
ATOM	7951	NZ LYS C 937	97.465	74.296	86.883	1.00	0.00	N1+
ATOM	7952	N PRO C 938	97.789	68.863	91.342	1.00	0.00	N
ATOM	7953	CA PRO C 938	98.339	67.699	91.986	1.00	0.00	C
ATOM	7954	C PRO C 938	99.825	67.829	92.081	1.00	0.00	C
ATOM	7955	O PRO C 938	100.364	68.846	91.656	1.00	0.00	O
ATOM	7956	CB PRO C 938	97.887	66.493	91.155	1.00	0.00	C
ATOM	7957	CG PRO C 938	97.384	67.093	89.834	1.00	0.00	C

ATOM	7958	CD	PRO	C	938	96.925	68.503	90.231	1.00	0.00	C
ATOM	7959	N	LEU	C	939	100.501	66.808	92.637	1.00	0.00	N
ATOM	7960	CA	LEU	C	939	101.919	66.871	92.830	1.00	0.00	C
ATOM	7961	C	LEU	C	939	102.604	66.922	91.506	1.00	0.00	C
ATOM	7962	O	LEU	C	939	102.401	66.072	90.639	1.00	0.00	O
ATOM	7963	CB	LEU	C	939	102.458	65.675	93.625	1.00	0.00	C
ATOM	7964	CG	LEU	C	939	101.873	65.605	95.048	1.00	0.00	C
ATOM	7965	CD1	LEU	C	939	100.357	65.343	95.039	1.00	0.00	C
ATOM	7966	CD2	LEU	C	939	102.627	64.583	95.897	1.00	0.00	C
ATOM	7967	N	CYS	C	940	103.463	67.944	91.339	1.00	0.00	N
ATOM	7968	CA	CYS	C	940	104.137	68.106	90.091	1.00	0.00	C
ATOM	7969	C	CYS	C	940	105.048	66.976	89.925	1.00	0.00	C
ATOM	7970	O	CYS	C	940	105.855	66.636	90.786	1.00	0.00	O
ATOM	7971	CB	CYS	C	940	104.970	69.390	89.968	1.00	0.00	C
ATOM	7972	SG	CYS	C	940	103.926	70.866	89.832	1.00	0.00	S
ATOM	7973	N	VAL	C	941	104.922	66.350	88.765	1.00	0.00	N
ATOM	7974	CA	VAL	C	941	105.781	65.255	88.554	1.00	0.00	C
ATOM	7975	C	VAL	C	941	106.267	65.402	87.164	1.00	0.00	C
ATOM	7976	O	VAL	C	941	105.733	66.183	86.379	1.00	0.00	O
ATOM	7977	CB	VAL	C	941	105.071	63.949	88.701	1.00	0.00	C
ATOM	7978	CG1	VAL	C	941	104.555	63.858	90.149	1.00	0.00	C
ATOM	7979	CG2	VAL	C	941	103.957	63.879	87.645	1.00	0.00	C
ATOM	7980	N	GLU	C	942	107.368	64.710	86.851	1.00	0.00	N
ATOM	7981	CA	GLU	C	942	107.857	64.758	85.516	1.00	0.00	C
ATOM	7982	C	GLU	C	942	106.894	64.010	84.641	1.00	0.00	C
ATOM	7983	O	GLU	C	942	106.692	64.371	83.483	1.00	0.00	O
ATOM	7984	CB	GLU	C	942	109.245	64.120	85.353	1.00	0.00	C
ATOM	7985	CG	GLU	C	942	109.763	64.190	83.918	1.00	0.00	C
ATOM	7986	CD	GLU	C	942	111.201	63.684	83.906	1.00	0.00	C
ATOM	7987	OE1	GLU	C	942	111.776	63.517	85.012	1.00	0.00	O
ATOM	7988	OE2	GLU	C	942	111.737	63.462	82.787	1.00	0.00	O
ATOM	7989	N	LEU	C	943	106.286	62.934	85.191	1.00	0.00	N
ATOM	7990	CA	LEU	C	943	105.414	62.038	84.465	1.00	0.00	C
ATOM	7991	C	LEU	C	943	103.985	62.523	84.438	1.00	0.00	C
ATOM	7992	O	LEU	C	943	103.689	63.610	84.928	1.00	0.00	O
ATOM	7993	CB	LEU	C	943	105.452	60.597	84.996	1.00	0.00	C
ATOM	7994	CG	LEU	C	943	106.815	59.928	84.744	1.00	0.00	C
ATOM	7995	CD1	LEU	C	943	107.941	60.661	85.487	1.00	0.00	C
ATOM	7996	CD2	LEU	C	943	106.772	58.425	85.057	1.00	0.00	C
ATOM	7997	N	ASP	C	944	103.075	61.737	83.795	1.00	0.00	N
ATOM	7998	CA	ASP	C	944	101.681	62.087	83.582	1.00	0.00	C
ATOM	7999	C	ASP	C	944	100.723	61.247	84.419	1.00	0.00	C
ATOM	8000	O	ASP	C	944	101.149	60.568	85.355	1.00	0.00	O
ATOM	8001	CB	ASP	C	944	101.256	61.927	82.115	1.00	0.00	C

ATOM	8002	CG	ASP	C	944	102.034	62.949	81.297	1.00	0.00	C
ATOM	8003	OD1	ASP	C	944	102.117	64.130	81.735	1.00	0.00	O
ATOM	8004	OD2	ASP	C	944	102.554	62.564	80.215	1.00	0.00	O
ATOM	8005	N	GLU	C	945	99.384	61.318	84.123	1.00	0.00	N
ATOM	8006	CA	GLU	C	945	98.357	60.567	84.830	1.00	0.00	C
ATOM	8007	C	GLU	C	945	96.984	60.871	84.242	1.00	0.00	C
ATOM	8008	O	GLU	C	945	96.882	61.407	83.142	1.00	0.00	O
ATOM	8009	CB	GLU	C	945	98.330	60.864	86.339	1.00	0.00	C
ATOM	8010	CG	GLU	C	945	97.522	59.848	87.147	1.00	0.00	C
ATOM	8011	CD	GLU	C	945	97.635	60.216	88.618	1.00	0.00	C
ATOM	8012	OE1	GLU	C	945	98.349	61.209	88.926	1.00	0.00	O
ATOM	8013	OE2	GLU	C	945	97.016	59.510	89.456	1.00	0.00	O
HETATM	8014	N	HIE	C	946	95.870	60.488	84.931	1.00	0.00	N
HETATM	8015	CA	HIE	C	946	94.555	60.776	84.400	1.00	0.00	C
HETATM	8016	C	HIE	C	946	93.714	61.415	85.464	1.00	0.00	C
HETATM	8017	O	HIE	C	946	93.813	61.077	86.642	1.00	0.00	O
HETATM	8018	CB	HIE	C	946	93.787	59.541	83.906	1.00	0.00	C
HETATM	8019	CG	HIE	C	946	93.265	58.694	85.023	1.00	0.00	C
HETATM	8020	CD2	HIE	C	946	92.005	58.606	85.537	1.00	0.00	C
HETATM	8021	ND1	HIE	C	946	94.030	57.816	85.752	1.00	0.00	N
HETATM	8022	CE1	HIE	C	946	93.206	57.240	86.666	1.00	0.00	C
HETATM	8023	NE2	HIE	C	946	91.968	57.688	86.572	1.00	0.00	N
ATOM	8024	N	ASN	C	947	92.847	62.371	85.065	1.00	0.00	N
ATOM	8025	CA	ASN	C	947	92.023	63.055	86.023	1.00	0.00	C
ATOM	8026	C	ASN	C	947	90.712	63.378	85.385	1.00	0.00	C
ATOM	8027	O	ASN	C	947	90.376	62.891	84.310	1.00	0.00	O
ATOM	8028	CB	ASN	C	947	92.615	64.394	86.504	1.00	0.00	C
ATOM	8029	CG	ASN	C	947	93.847	64.104	87.352	1.00	0.00	C
ATOM	8030	ND2	ASN	C	947	94.925	64.909	87.148	1.00	0.00	N
ATOM	8031	OD1	ASN	C	947	93.854	63.189	88.171	1.00	0.00	O
ATOM	8032	N	LEU	C	948	89.921	64.203	86.093	1.00	0.00	N
ATOM	8033	CA	LEU	C	948	88.639	64.662	85.646	1.00	0.00	C
ATOM	8034	C	LEU	C	948	88.847	65.501	84.414	1.00	0.00	C
ATOM	8035	O	LEU	C	948	88.054	65.403	83.474	1.00	0.00	O
ATOM	8036	CB	LEU	C	948	87.954	65.558	86.691	1.00	0.00	C
ATOM	8037	CG	LEU	C	948	87.751	64.883	88.059	1.00	0.00	C
ATOM	8038	CD1	LEU	C	948	87.063	65.841	89.036	1.00	0.00	C
ATOM	8039	CD2	LEU	C	948	86.998	63.549	87.932	1.00	0.00	C
ATOM	8040	N	PRO	C	949	89.871	66.323	84.364	1.00	0.00	N
ATOM	8041	CA	PRO	C	949	90.063	67.132	83.191	1.00	0.00	C
ATOM	8042	C	PRO	C	949	90.485	66.308	82.026	1.00	0.00	C
ATOM	8043	O	PRO	C	949	90.969	65.193	82.224	1.00	0.00	O
ATOM	8044	CB	PRO	C	949	91.081	68.205	83.576	1.00	0.00	C
ATOM	8045	CG	PRO	C	949	90.853	68.388	85.086	1.00	0.00	C

ATOM	8046	CD	PRO	C	949	90.349	67.013	85.558	1.00	0.00	C
ATOM	8047	N	ARG	C	950	90.289	66.836	80.801	1.00	0.00	N
ATOM	8048	CA	ARG	C	950	90.630	66.104	79.622	1.00	0.00	C
ATOM	8049	C	ARG	C	950	91.977	66.551	79.149	1.00	0.00	C
ATOM	8050	O	ARG	C	950	92.103	67.496	78.370	1.00	0.00	O
ATOM	8051	CB	ARG	C	950	89.631	66.358	78.486	1.00	0.00	C
ATOM	8052	CG	ARG	C	950	90.043	65.768	77.138	1.00	0.00	C
ATOM	8053	CD	ARG	C	950	89.014	66.046	76.041	1.00	0.00	C
ATOM	8054	NE	ARG	C	950	89.652	65.707	74.737	1.00	0.00	N
ATOM	8055	CZ	ARG	C	950	89.672	64.415	74.305	1.00	0.00	C
ATOM	8056	NH1	ARG	C	950	89.151	63.426	75.088	1.00	0.00	N
ATOM	8057	NH2	ARG	C	950	90.216	64.111	73.092	1.00	0.00	N
ATOM	8058	N	PHE	C	951	93.020	65.862	79.641	1.00	0.00	N
ATOM	8059	CA	PHE	C	951	94.388	66.059	79.255	1.00	0.00	C
ATOM	8060	C	PHE	C	951	94.558	65.567	77.839	1.00	0.00	C
ATOM	8061	O	PHE	C	951	95.253	66.198	77.041	1.00	0.00	O
ATOM	8062	CB	PHE	C	951	95.363	65.257	80.135	1.00	0.00	C
ATOM	8063	CG	PHE	C	951	95.159	65.701	81.541	1.00	0.00	C
ATOM	8064	CD1	PHE	C	951	95.817	66.799	82.036	1.00	0.00	C
ATOM	8065	CD2	PHE	C	951	94.295	65.008	82.363	1.00	0.00	C
ATOM	8066	CE1	PHE	C	951	95.618	67.201	83.337	1.00	0.00	C
ATOM	8067	CE2	PHE	C	951	94.093	65.411	83.663	1.00	0.00	C
ATOM	8068	CZ	PHE	C	951	94.757	66.507	84.151	1.00	0.00	C
ATOM	8069	N	PRO	C	952	93.940	64.461	77.488	1.00	0.00	N
ATOM	8070	CA	PRO	C	952	94.097	63.959	76.150	1.00	0.00	C
ATOM	8071	C	PRO	C	952	93.526	64.885	75.135	1.00	0.00	C
ATOM	8072	O	PRO	C	952	93.632	64.596	73.945	1.00	0.00	O
ATOM	8073	CB	PRO	C	952	93.485	62.560	76.149	1.00	0.00	C
ATOM	8074	CG	PRO	C	952	93.735	62.071	77.583	1.00	0.00	C
ATOM	8075	CD	PRO	C	952	93.749	63.357	78.425	1.00	0.00	C
ATOM	8076	N	GLU	C	953	92.891	65.984	75.558	1.00	0.00	N
ATOM	8077	CA	GLU	C	953	92.369	66.880	74.573	1.00	0.00	C
ATOM	8078	C	GLU	C	953	93.532	67.376	73.766	1.00	0.00	C
ATOM	8079	O	GLU	C	953	93.433	67.521	72.552	1.00	0.00	O
ATOM	8080	CB	GLU	C	953	91.664	68.098	75.187	1.00	0.00	C
ATOM	8081	CG	GLU	C	953	90.858	68.922	74.176	1.00	0.00	C
ATOM	8082	CD	GLU	C	953	91.822	69.729	73.320	1.00	0.00	C
ATOM	8083	OE1	GLU	C	953	92.696	70.425	73.906	1.00	0.00	O
ATOM	8084	OE2	GLU	C	953	91.704	69.656	72.068	1.00	0.00	O
ATOM	8085	N	TRP	C	954	94.674	67.647	74.430	1.00	0.00	N
ATOM	8086	CA	TRP	C	954	95.840	68.172	73.776	1.00	0.00	C
ATOM	8087	C	TRP	C	954	96.383	67.207	72.765	1.00	0.00	C
ATOM	8088	O	TRP	C	954	96.736	67.598	71.655	1.00	0.00	O
ATOM	8089	CB	TRP	C	954	96.986	68.486	74.755	1.00	0.00	C

ATOM	8090	CG TRP C 954	98.285	68.838	74.070	1.00	0.00	C
ATOM	8091	CD1 TRP C 954	99.394	68.066	73.887	1.00	0.00	C
ATOM	8092	CD2 TRP C 954	98.558	70.098	73.433	1.00	0.00	C
ATOM	8093	CE2 TRP C 954	99.841	70.015	72.894	1.00	0.00	C
ATOM	8094	CE3 TRP C 954	97.799	71.223	73.304	1.00	0.00	C
ATOM	8095	NE1 TRP C 954	100.346	68.764	73.183	1.00	0.00	N
ATOM	8096	CZ2 TRP C 954	100.390	71.064	72.214	1.00	0.00	C
ATOM	8097	CZ3 TRP C 954	98.356	72.284	72.622	1.00	0.00	C
ATOM	8098	CH2 TRP C 954	99.627	72.203	72.088	1.00	0.00	C
ATOM	8099	N ILE C 955	96.431	65.909	73.113	1.00	0.00	N
ATOM	8100	CA ILE C 955	97.028	64.910	72.272	1.00	0.00	C
ATOM	8101	C ILE C 955	96.301	64.863	70.969	1.00	0.00	C
ATOM	8102	O ILE C 955	96.872	64.497	69.947	1.00	0.00	O
ATOM	8103	CB ILE C 955	97.020	63.519	72.842	1.00	0.00	C
ATOM	8104	CG1 ILE C 955	95.595	62.961	72.968	1.00	0.00	C
ATOM	8105	CG2 ILE C 955	97.790	63.559	74.170	1.00	0.00	C
ATOM	8106	CD1 ILE C 955	95.556	61.459	73.242	1.00	0.00	C
ATOM	8107	N THR C 956	95.009	65.235	70.976	1.00	0.00	N
ATOM	8108	CA THR C 956	94.172	65.090	69.823	1.00	0.00	C
ATOM	8109	C THR C 956	94.807	65.747	68.644	1.00	0.00	C
ATOM	8110	O THR C 956	94.665	65.239	67.537	1.00	0.00	O
ATOM	8111	CB THR C 956	92.820	65.716	69.983	1.00	0.00	C
ATOM	8112	CG2 THR C 956	92.178	65.169	71.271	1.00	0.00	C
ATOM	8113	OG1 THR C 956	92.936	67.128	70.054	1.00	0.00	O
ATOM	8114	N ILE C 957	95.503	66.885	68.802	1.00	0.00	N
ATOM	8115	CA ILE C 957	96.043	67.450	67.598	1.00	0.00	C
ATOM	8116	C ILE C 957	97.023	66.505	66.951	1.00	0.00	C
ATOM	8117	O ILE C 957	96.962	66.374	65.728	1.00	0.00	O
ATOM	8118	CB ILE C 957	96.519	68.891	67.709	1.00	0.00	C
ATOM	8119	CG1 ILE C 957	97.589	69.146	68.785	1.00	0.00	C
ATOM	8120	CG2 ILE C 957	95.263	69.750	67.907	1.00	0.00	C
ATOM	8121	CD1 ILE C 957	98.229	70.531	68.696	1.00	0.00	C
ATOM	8122	N PRO C 958	97.924	65.817	67.616	1.00	0.00	N
ATOM	8123	CA PRO C 958	98.716	64.860	66.891	1.00	0.00	C
ATOM	8124	C PRO C 958	97.857	63.702	66.505	1.00	0.00	C
ATOM	8125	O PRO C 958	98.187	62.996	65.552	1.00	0.00	O
ATOM	8126	CB PRO C 958	99.871	64.477	67.812	1.00	0.00	C
ATOM	8127	CG PRO C 958	100.054	65.722	68.695	1.00	0.00	C
ATOM	8128	CD PRO C 958	98.651	66.340	68.764	1.00	0.00	C
ATOM	8129	N LEU C 959	96.754	63.491	67.246	1.00	0.00	N
ATOM	8130	CA LEU C 959	95.858	62.405	67.003	1.00	0.00	C
ATOM	8131	C LEU C 959	95.271	62.645	65.651	1.00	0.00	C
ATOM	8132	O LEU C 959	95.012	61.713	64.892	1.00	0.00	O
ATOM	8133	CB LEU C 959	94.723	62.332	68.039	1.00	0.00	C

ATOM	8134	CG	LEU	C	959	93.838	61.072	67.924	1.00	0.00	C
ATOM	8135	CD1	LEU	C	959	92.988	61.071	66.646	1.00	0.00	C
ATOM	8136	CD2	LEU	C	959	94.677	59.796	68.090	1.00	0.00	C
ATOM	8137	N	VAL	C	960	95.061	63.931	65.324	1.00	0.00	N
ATOM	8138	CA	VAL	C	960	94.503	64.344	64.075	1.00	0.00	C
ATOM	8139	C	VAL	C	960	95.403	63.805	63.022	1.00	0.00	C
ATOM	8140	O	VAL	C	960	94.948	63.269	62.014	1.00	0.00	O
ATOM	8141	CB	VAL	C	960	94.502	65.843	63.939	1.00	0.00	C
ATOM	8142	CG1	VAL	C	960	94.127	66.227	62.498	1.00	0.00	C
ATOM	8143	CG2	VAL	C	960	93.563	66.424	65.009	1.00	0.00	C
ATOM	8144	N	CYS	C	961	96.721	63.921	63.254	1.00	0.00	N
ATOM	8145	CA	CYS	C	961	97.668	63.430	62.307	1.00	0.00	C
ATOM	8146	C	CYS	C	961	97.479	61.955	62.195	1.00	0.00	C
ATOM	8147	O	CYS	C	961	97.557	61.383	61.107	1.00	0.00	O
ATOM	8148	CB	CYS	C	961	99.122	63.678	62.732	1.00	0.00	C
ATOM	8149	SG	CYS	C	961	100.313	63.047	61.512	1.00	0.00	S
ATOM	8150	N	ILE	C	962	97.199	61.295	63.333	1.00	0.00	N
ATOM	8151	CA	ILE	C	962	97.090	59.866	63.371	1.00	0.00	C
ATOM	8152	C	ILE	C	962	95.971	59.407	62.488	1.00	0.00	C
ATOM	8153	O	ILE	C	962	96.143	58.481	61.698	1.00	0.00	O
ATOM	8154	CB	ILE	C	962	96.763	59.352	64.743	1.00	0.00	C
ATOM	8155	CG1	ILE	C	962	97.831	59.784	65.761	1.00	0.00	C
ATOM	8156	CG2	ILE	C	962	96.598	57.828	64.641	1.00	0.00	C
ATOM	8157	CD1	ILE	C	962	99.223	59.239	65.458	1.00	0.00	C
ATOM	8158	N	TYR	C	963	94.799	60.064	62.575	1.00	0.00	N
ATOM	8159	CA	TYR	C	963	93.665	59.563	61.855	1.00	0.00	C
ATOM	8160	C	TYR	C	963	93.906	59.627	60.385	1.00	0.00	C
ATOM	8161	O	TYR	C	963	93.454	58.754	59.648	1.00	0.00	O
ATOM	8162	CB	TYR	C	963	92.311	60.233	62.179	1.00	0.00	C
ATOM	8163	CG	TYR	C	963	92.251	61.643	61.711	1.00	0.00	C
ATOM	8164	CD1	TYR	C	963	92.083	61.942	60.378	1.00	0.00	C
ATOM	8165	CD2	TYR	C	963	92.322	62.670	62.621	1.00	0.00	C
ATOM	8166	CE1	TYR	C	963	92.013	63.250	59.957	1.00	0.00	C
ATOM	8167	CE2	TYR	C	963	92.250	63.979	62.207	1.00	0.00	C
ATOM	8168	CZ	TYR	C	963	92.101	64.271	60.873	1.00	0.00	C
ATOM	8169	OH	TYR	C	963	92.028	65.615	60.452	1.00	0.00	O
ATOM	8170	N	MET	C	964	94.634	60.651	59.912	1.00	0.00	N
ATOM	8171	CA	MET	C	964	94.804	60.813	58.495	1.00	0.00	C
ATOM	8172	C	MET	C	964	95.425	59.570	57.931	1.00	0.00	C
ATOM	8173	O	MET	C	964	95.016	59.089	56.877	1.00	0.00	O
ATOM	8174	CB	MET	C	964	95.758	61.964	58.136	1.00	0.00	C
ATOM	8175	CG	MET	C	964	95.263	63.347	58.570	1.00	0.00	C
ATOM	8176	SD	MET	C	964	96.432	64.695	58.220	1.00	0.00	S
ATOM	8177	CE	MET	C	964	97.662	64.152	59.443	1.00	0.00	C

ATOM	8178	N	LEU	C	965	96.430	59.003	58.616	1.00	0.00	N
ATOM	8179	CA	LEU	C	965	97.064	57.846	58.057	1.00	0.00	C
ATOM	8180	C	LEU	C	965	96.048	56.745	57.995	1.00	0.00	C
ATOM	8181	O	LEU	C	965	95.930	56.057	56.982	1.00	0.00	O
ATOM	8182	CB	LEU	C	965	98.271	57.381	58.901	1.00	0.00	C
ATOM	8183	CG	LEU	C	965	99.194	56.311	58.262	1.00	0.00	C
ATOM	8184	CD1	LEU	C	965	100.344	55.957	59.219	1.00	0.00	C
ATOM	8185	CD2	LEU	C	965	98.441	55.054	57.791	1.00	0.00	C
ATOM	8186	N	SER	C	966	95.266	56.564	59.075	1.00	0.00	N
ATOM	8187	CA	SER	C	966	94.331	55.475	59.121	1.00	0.00	C
ATOM	8188	C	SER	C	966	93.295	55.650	58.060	1.00	0.00	C
ATOM	8189	O	SER	C	966	92.984	54.720	57.320	1.00	0.00	O
ATOM	8190	CB	SER	C	966	93.603	55.364	60.471	1.00	0.00	C
ATOM	8191	OG	SER	C	966	92.759	56.488	60.671	1.00	0.00	O
ATOM	8192	N	THR	C	967	92.753	56.870	57.940	1.00	0.00	N
ATOM	8193	CA	THR	C	967	91.706	57.106	56.998	1.00	0.00	C
ATOM	8194	C	THR	C	967	92.211	56.849	55.620	1.00	0.00	C
ATOM	8195	O	THR	C	967	91.531	56.226	54.806	1.00	0.00	O
ATOM	8196	CB	THR	C	967	91.182	58.514	57.069	1.00	0.00	C
ATOM	8197	CG2	THR	C	967	92.312	59.517	56.804	1.00	0.00	C
ATOM	8198	OG1	THR	C	967	90.150	58.684	56.116	1.00	0.00	O
ATOM	8199	N	ASN	C	968	93.446	57.286	55.329	1.00	0.00	N
ATOM	8200	CA	ASN	C	968	93.930	57.151	53.992	1.00	0.00	C
ATOM	8201	C	ASN	C	968	93.952	55.708	53.604	1.00	0.00	C
ATOM	8202	O	ASN	C	968	93.557	55.355	52.494	1.00	0.00	O
ATOM	8203	CB	ASN	C	968	95.351	57.709	53.805	1.00	0.00	C
ATOM	8204	CG	ASN	C	968	95.656	57.672	52.314	1.00	0.00	C
ATOM	8205	ND2	ASN	C	968	95.416	58.816	51.613	1.00	0.00	N
ATOM	8206	OD1	ASN	C	968	96.084	56.650	51.780	1.00	0.00	O
ATOM	8207	N	ILE	C	969	94.400	54.828	54.512	1.00	0.00	N
ATOM	8208	CA	ILE	C	969	94.498	53.456	54.124	1.00	0.00	C
ATOM	8209	C	ILE	C	969	93.109	52.958	53.871	1.00	0.00	C
ATOM	8210	O	ILE	C	969	92.874	52.153	52.976	1.00	0.00	O
ATOM	8211	CB	ILE	C	969	95.122	52.559	55.133	1.00	0.00	C
ATOM	8212	CG1	ILE	C	969	96.374	53.184	55.765	1.00	0.00	C
ATOM	8213	CG2	ILE	C	969	95.528	51.353	54.286	1.00	0.00	C
ATOM	8214	CD1	ILE	C	969	96.860	52.425	56.999	1.00	0.00	C
ATOM	8215	N	LEU	C	970	92.134	53.413	54.675	1.00	0.00	N
ATOM	8216	CA	LEU	C	970	90.807	52.929	54.463	1.00	0.00	C
ATOM	8217	C	LEU	C	970	90.371	53.291	53.083	1.00	0.00	C
ATOM	8218	O	LEU	C	970	89.833	52.449	52.369	1.00	0.00	O
ATOM	8219	CB	LEU	C	970	89.776	53.510	55.443	1.00	0.00	C
ATOM	8220	CG	LEU	C	970	88.340	53.083	55.091	1.00	0.00	C
ATOM	8221	CD1	LEU	C	970	88.198	51.555	55.051	1.00	0.00	C

ATOM	8222	CD2 LEU C 970	87.331	53.744	56.034	1.00	0.00	C
ATOM	8223	N LEU C 971	90.615	54.537	52.644	1.00	0.00	N
ATOM	8224	CA LEU C 971	90.173	54.885	51.327	1.00	0.00	C
ATOM	8225	C LEU C 971	90.882	54.023	50.337	1.00	0.00	C
ATOM	8226	O LEU C 971	90.256	53.489	49.425	1.00	0.00	O
ATOM	8227	CB LEU C 971	90.425	56.355	50.943	1.00	0.00	C
ATOM	8228	CG LEU C 971	89.476	57.349	51.636	1.00	0.00	C
ATOM	8229	CD1 LEU C 971	89.621	57.313	53.163	1.00	0.00	C
ATOM	8230	CD2 LEU C 971	89.639	58.764	51.060	1.00	0.00	C
ATOM	8231	N VAL C 972	92.203	53.822	50.503	1.00	0.00	N
ATOM	8232	CA VAL C 972	92.909	53.041	49.528	1.00	0.00	C
ATOM	8233	C VAL C 972	92.311	51.679	49.542	1.00	0.00	C
ATOM	8234	O VAL C 972	92.237	51.001	48.518	1.00	0.00	O
ATOM	8235	CB VAL C 972	94.396	52.930	49.757	1.00	0.00	C
ATOM	8236	CG1 VAL C 972	94.690	52.005	50.947	1.00	0.00	C
ATOM	8237	CG2 VAL C 972	95.043	52.450	48.448	1.00	0.00	C
ATOM	8238	N ASN C 973	91.855	51.242	50.725	1.00	0.00	N
ATOM	8239	CA ASN C 973	91.255	49.950	50.844	1.00	0.00	C
ATOM	8240	C ASN C 973	90.066	49.892	49.934	1.00	0.00	C
ATOM	8241	O ASN C 973	89.910	48.931	49.180	1.00	0.00	O
ATOM	8242	CB ASN C 973	90.755	49.684	52.271	1.00	0.00	C
ATOM	8243	CG ASN C 973	90.184	48.274	52.341	1.00	0.00	C
ATOM	8244	ND2 ASN C 973	89.687	47.888	53.547	1.00	0.00	N
ATOM	8245	OD1 ASN C 973	90.168	47.542	51.353	1.00	0.00	O
ATOM	8246	N LEU C 974	89.196	50.924	49.977	1.00	0.00	N
ATOM	8247	CA LEU C 974	87.990	50.974	49.192	1.00	0.00	C
ATOM	8248	C LEU C 974	88.263	51.119	47.723	1.00	0.00	C
ATOM	8249	O LEU C 974	87.628	50.452	46.913	1.00	0.00	O
ATOM	8250	CB LEU C 974	87.049	52.125	49.588	1.00	0.00	C
ATOM	8251	CG LEU C 974	86.274	51.896	50.903	1.00	0.00	C
ATOM	8252	CD1 LEU C 974	87.214	51.697	52.098	1.00	0.00	C
ATOM	8253	CD2 LEU C 974	85.246	53.014	51.137	1.00	0.00	C
ATOM	8254	N LEU C 975	89.236	51.968	47.343	1.00	0.00	N
ATOM	8255	CA LEU C 975	89.463	52.299	45.963	1.00	0.00	C
ATOM	8256	C LEU C 975	89.784	51.094	45.141	1.00	0.00	C
ATOM	8257	O LEU C 975	89.376	51.021	43.982	1.00	0.00	O
ATOM	8258	CB LEU C 975	90.608	53.306	45.734	1.00	0.00	C
ATOM	8259	CG LEU C 975	90.232	54.792	45.910	1.00	0.00	C
ATOM	8260	CD1 LEU C 975	89.283	55.243	44.788	1.00	0.00	C
ATOM	8261	CD2 LEU C 975	89.679	55.109	47.303	1.00	0.00	C
ATOM	8262	N VAL C 976	90.505	50.111	45.702	1.00	0.00	N
ATOM	8263	CA VAL C 976	90.942	49.023	44.877	1.00	0.00	C
ATOM	8264	C VAL C 976	89.781	48.320	44.233	1.00	0.00	C
ATOM	8265	O VAL C 976	89.859	47.957	43.061	1.00	0.00	O

ATOM	8266	CB VAL C 976	91.743	47.988	45.598	1.00	0.00	C
ATOM	8267	CG1 VAL C 976	92.111	46.900	44.574	1.00	0.00	C
ATOM	8268	CG2 VAL C 976	92.962	48.664	46.248	1.00	0.00	C
ATOM	8269	N ALA C 977	88.668	48.093	44.959	1.00	0.00	N
ATOM	8270	CA ALA C 977	87.572	47.394	44.343	1.00	0.00	C
ATOM	8271	C ALA C 977	87.003	48.265	43.236	1.00	0.00	C
ATOM	8272	O ALA C 977	87.145	49.485	43.310	1.00	0.00	O
ATOM	8273	CB ALA C 977	86.435	47.061	45.323	1.00	0.00	C
ATOM	8274	N MET C 978	86.301	48.167	43.128	1.00	0.00	N
ATOM	8275	CA MET C 978	85.688	48.933	42.059	1.00	0.00	C
ATOM	8276	C MET C 978	84.607	49.713	42.715	1.00	0.00	C
ATOM	8277	O MET C 978	83.842	49.174	43.514	1.00	0.00	O
ATOM	8278	CB MET C 978	85.018	48.089	40.963	1.00	0.00	C
ATOM	8279	CG MET C 978	86.003	47.274	40.130	1.00	0.00	C
ATOM	8280	SD MET C 978	86.777	45.907	41.039	1.00	0.00	S
ATOM	8281	CE MET C 978	87.784	45.314	39.652	1.00	0.00	C
ATOM	8282	N PHE C 979	84.507	51.014	42.396	1.00	0.00	N
ATOM	8283	CA PHE C 979	83.522	51.769	43.101	1.00	0.00	C
ATOM	8284	C PHE C 979	82.522	52.254	42.117	1.00	0.00	C
ATOM	8285	O PHE C 979	82.864	52.644	41.002	1.00	0.00	O
ATOM	8286	CB PHE C 979	84.091	53.000	43.825	1.00	0.00	C
ATOM	8287	CG PHE C 979	83.029	53.517	44.725	1.00	0.00	C
ATOM	8288	CD1 PHE C 979	82.889	53.004	45.995	1.00	0.00	C
ATOM	8289	CD2 PHE C 979	82.168	54.506	44.309	1.00	0.00	C
ATOM	8290	CE1 PHE C 979	81.911	53.471	46.837	1.00	0.00	C
ATOM	8291	CE2 PHE C 979	81.184	54.976	45.148	1.00	0.00	C
ATOM	8292	CZ PHE C 979	81.054	54.460	46.415	1.00	0.00	C
ATOM	8293	N GLY C 980	81.238	52.220	42.520	1.00	0.00	N
ATOM	8294	CA GLY C 980	80.201	52.705	41.668	1.00	0.00	C
ATOM	8295	C GLY C 980	80.281	51.947	40.391	1.00	0.00	C
ATOM	8296	O GLY C 980	80.378	50.720	40.377	1.00	0.00	O
ATOM	8297	N TYR C 981	80.266	52.694	39.274	1.00	0.00	N
ATOM	8298	CA TYR C 981	80.315	52.095	37.982	1.00	0.00	C
ATOM	8299	C TYR C 981	81.584	52.573	37.364	1.00	0.00	C
ATOM	8300	O TYR C 981	81.951	53.738	37.503	1.00	0.00	O
ATOM	8301	CB TYR C 981	79.159	52.569	37.084	1.00	0.00	C
ATOM	8302	CG TYR C 981	79.151	51.762	35.835	1.00	0.00	C
ATOM	8303	CD1 TYR C 981	78.548	50.529	35.823	1.00	0.00	C
ATOM	8304	CD2 TYR C 981	79.726	52.238	34.681	1.00	0.00	C
ATOM	8305	CE1 TYR C 981	78.522	49.769	34.681	1.00	0.00	C
ATOM	8306	CE2 TYR C 981	79.704	51.483	33.530	1.00	0.00	C
ATOM	8307	CZ TYR C 981	79.102	50.248	33.531	1.00	0.00	C
ATOM	8308	OH TYR C 981	79.076	49.469	32.355	1.00	0.00	O
ATOM	8309	N THR C 982	82.308	51.668	36.681	1.00	0.00	N

ATOM	8310	CA	THR	C	982	83.538	52.067	36.071	1.00	0.00	C
ATOM	8311	C	THR	C	982	83.226	53.048	35.003	1.00	0.00	C
ATOM	8312	O	THR	C	982	82.371	52.808	34.151	1.00	0.00	O
ATOM	8313	CB	THR	C	982	84.282	50.936	35.425	1.00	0.00	C
ATOM	8314	CG2	THR	C	982	85.494	51.487	34.662	1.00	0.00	C
ATOM	8315	OG1	THR	C	982	84.691	50.000	36.404	1.00	0.00	O
ATOM	8316	N	VAL	C	983	83.927	54.193	35.032	1.00	0.00	N
ATOM	8317	CA	VAL	C	983	83.717	55.204	34.048	1.00	0.00	C
ATOM	8318	C	VAL	C	983	85.061	55.682	33.618	1.00	0.00	C
ATOM	8319	O	VAL	C	983	86.043	55.547	34.347	1.00	0.00	O
ATOM	8320	CB	VAL	C	983	82.980	56.398	34.575	1.00	0.00	C
ATOM	8321	CG1	VAL	C	983	81.565	55.958	34.990	1.00	0.00	C
ATOM	8322	CG2	VAL	C	983	83.805	57.006	35.717	1.00	0.00	C
ATOM	8323	N	GLY	C	984	85.133	56.236	32.394	1.00	0.00	N
ATOM	8324	CA	GLY	C	984	86.364	56.764	31.892	1.00	0.00	C
ATOM	8325	C	GLY	C	984	87.027	55.694	31.091	1.00	0.00	C
ATOM	8326	O	GLY	C	984	86.889	54.507	31.378	1.00	0.00	O
ATOM	8327	N	THR	C	985	87.776	56.110	30.053	1.00	0.00	N
ATOM	8328	CA	THR	C	985	88.481	55.185	29.219	1.00	0.00	C
ATOM	8329	C	THR	C	985	89.540	54.543	30.049	1.00	0.00	C
ATOM	8330	O	THR	C	985	89.770	53.337	29.959	1.00	0.00	O
ATOM	8331	CB	THR	C	985	89.174	55.841	28.065	1.00	0.00	C
ATOM	8332	CG2	THR	C	985	89.933	54.764	27.276	1.00	0.00	C
ATOM	8333	OG1	THR	C	985	88.225	56.493	27.232	1.00	0.00	O
ATOM	8334	N	VAL	C	986	90.201	55.346	30.903	1.00	0.00	N
ATOM	8335	CA	VAL	C	986	91.277	54.833	31.692	1.00	0.00	C
ATOM	8336	C	VAL	C	986	90.744	53.722	32.527	1.00	0.00	C
ATOM	8337	O	VAL	C	986	91.321	52.636	32.574	1.00	0.00	O
ATOM	8338	CB	VAL	C	986	91.843	55.867	32.626	1.00	0.00	C
ATOM	8339	CG1	VAL	C	986	92.903	55.198	33.517	1.00	0.00	C
ATOM	8340	CG2	VAL	C	986	92.371	57.047	31.793	1.00	0.00	C
ATOM	8341	N	GLN	C	987	89.602	53.952	33.196	1.00	0.00	N
ATOM	8342	CA	GLN	C	987	89.093	52.911	34.034	1.00	0.00	C
ATOM	8343	C	GLN	C	987	88.453	51.908	33.137	1.00	0.00	C
ATOM	8344	O	GLN	C	987	87.675	52.255	32.247	1.00	0.00	O
ATOM	8345	CB	GLN	C	987	88.065	53.423	35.058	1.00	0.00	C
ATOM	8346	CG	GLN	C	987	87.795	52.462	36.216	1.00	0.00	C
ATOM	8347	CD	GLN	C	987	86.857	53.175	37.178	1.00	0.00	C
ATOM	8348	NE2	GLN	C	987	87.120	54.490	37.413	1.00	0.00	N
ATOM	8349	OE1	GLN	C	987	85.922	52.583	37.713	1.00	0.00	O
ATOM	8350	N	GLU	C	988	88.785	50.618	33.332	1.00	0.00	N
ATOM	8351	CA	GLU	C	988	88.217	49.613	32.488	1.00	0.00	C
ATOM	8352	C	GLU	C	988	87.860	48.451	33.354	1.00	0.00	C
ATOM	8353	O	GLU	C	988	88.571	48.131	34.305	1.00	0.00	O

ATOM	8354	CB	GLU	C	988	89.206	49.111	31.419	1.00	0.00	C
ATOM	8355	CG	GLU	C	988	88.596	48.163	30.384	1.00	0.00	C
ATOM	8356	CD	GLU	C	988	88.541	46.765	30.978	1.00	0.00	C
ATOM	8357	OE1	GLU	C	988	89.247	46.516	31.993	1.00	0.00	O
ATOM	8358	OE2	GLU	C	988	87.791	45.925	30.419	1.00	0.00	O
ATOM	8359	N	ASN	C	989	86.722	47.794	33.058	1.00	0.00	N
ATOM	8360	CA	ASN	C	989	86.360	46.640	33.823	1.00	0.00	C
ATOM	8361	C	ASN	C	989	86.265	45.504	32.862	1.00	0.00	C
ATOM	8362	O	ASN	C	989	85.666	45.628	31.796	1.00	0.00	O
ATOM	8363	CB	ASN	C	989	85.004	46.755	34.540	1.00	0.00	C
ATOM	8364	CG	ASN	C	989	84.910	45.612	35.543	1.00	0.00	C
ATOM	8365	ND2	ASN	C	989	84.507	45.943	36.798	1.00	0.00	N
ATOM	8366	OD1	ASN	C	989	85.195	44.459	35.223	1.00	0.00	O
ATOM	8367	N	ASN	C	990	86.874	44.356	33.206	1.00	0.00	N
ATOM	8368	CA	ASN	C	990	86.808	43.266	32.283	1.00	0.00	C
ATOM	8369	C	ASN	C	990	85.860	42.251	32.827	1.00	0.00	C
ATOM	8370	O	ASN	C	990	86.059	41.713	33.913	1.00	0.00	O
ATOM	8371	CB	ASN	C	990	88.144	42.530	32.084	1.00	0.00	C
ATOM	8372	CG	ASN	C	990	89.143	43.438	31.383	1.00	0.00	C
ATOM	8373	ND2	ASN	C	990	88.996	43.579	30.037	1.00	0.00	N
ATOM	8374	OD1	ASN	C	990	90.043	43.993	32.013	1.00	0.00	O
ATOM	8375	N	ASP	C	991	84.776	41.985	32.076	1.00	0.00	N
ATOM	8376	CA	ASP	C	991	83.861	40.962	32.477	1.00	0.00	C
ATOM	8377	C	ASP	C	991	84.584	39.664	32.326	1.00	0.00	C
ATOM	8378	O	ASP	C	991	84.393	38.732	33.106	1.00	0.00	O
ATOM	8379	CB	ASP	C	991	82.583	40.914	31.623	1.00	0.00	C
ATOM	8380	CG	ASP	C	991	82.961	40.613	30.180	1.00	0.00	C
ATOM	8381	OD1	ASP	C	991	84.019	41.120	29.721	1.00	0.00	O
ATOM	8382	OD2	ASP	C	991	82.191	39.868	29.517	1.00	0.00	O
ATOM	8383	N	GLN	C	992	85.446	39.582	31.293	1.00	0.00	N
ATOM	8384	CA	GLN	C	992	86.169	38.377	31.028	1.00	0.00	C
ATOM	8385	C	GLN	C	992	87.130	38.079	32.142	1.00	0.00	C
ATOM	8386	O	GLN	C	992	87.262	36.924	32.542	1.00	0.00	O
ATOM	8387	CB	GLN	C	992	86.902	38.380	29.671	1.00	0.00	C
ATOM	8388	CG	GLN	C	992	87.974	39.452	29.477	1.00	0.00	C
ATOM	8389	CD	GLN	C	992	88.521	39.278	28.063	1.00	0.00	C
ATOM	8390	NE2	GLN	C	992	87.627	39.399	27.044	1.00	0.00	N
ATOM	8391	OE1	GLN	C	992	89.715	39.038	27.868	1.00	0.00	O
ATOM	8392	N	VAL	C	993	87.799	39.107	32.708	1.00	0.00	N
ATOM	8393	CA	VAL	C	993	88.747	38.859	33.761	1.00	0.00	C
ATOM	8394	C	VAL	C	993	88.018	38.188	34.864	1.00	0.00	C
ATOM	8395	O	VAL	C	993	88.500	37.220	35.453	1.00	0.00	O
ATOM	8396	CB	VAL	C	993	89.327	40.100	34.384	1.00	0.00	C
ATOM	8397	CG1	VAL	C	993	90.121	39.683	35.633	1.00	0.00	C

ATOM	8398	CG2 VAL C 993	90.187	40.847	33.354	1.00	0.00	C
ATOM	8399	N TRP C 994	86.817	38.688	35.180	1.00	0.00	N
ATOM	8400	CA TRP C 994	86.077	38.048	36.215	1.00	0.00	C
ATOM	8401	C TRP C 994	85.859	36.630	35.874	1.00	0.00	C
ATOM	8402	O TRP C 994	86.083	35.760	36.712	1.00	0.00	O
ATOM	8403	CB TRP C 994	84.641	38.485	36.328	1.00	0.00	C
ATOM	8404	CG TRP C 994	83.789	37.314	36.769	1.00	0.00	C
ATOM	8405	CD1 TRP C 994	83.783	36.564	37.919	1.00	0.00	C
ATOM	8406	CD2 TRP C 994	82.612	36.921	36.039	1.00	0.00	C
ATOM	8407	CE2 TRP C 994	81.945	35.962	36.801	1.00	0.00	C
ATOM	8408	CE3 TRP C 994	82.109	37.357	34.847	1.00	0.00	C
ATOM	8409	NE1 TRP C 994	82.674	35.753	37.947	1.00	0.00	N
ATOM	8410	CZ2 TRP C 994	80.764	35.422	36.378	1.00	0.00	C
ATOM	8411	CZ3 TRP C 994	80.936	36.787	34.412	1.00	0.00	C
ATOM	8412	CH2 TRP C 994	80.274	35.838	35.165	1.00	0.00	C
ATOM	8413	N LYS C 995	85.386	36.383	34.641	1.00	0.00	N
ATOM	8414	CA LYS C 995	84.964	35.063	34.290	1.00	0.00	C
ATOM	8415	C LYS C 995	86.103	34.141	34.508	1.00	0.00	C
ATOM	8416	O LYS C 995	85.902	33.012	34.953	1.00	0.00	O
ATOM	8417	CB LYS C 995	84.555	34.900	32.816	1.00	0.00	C
ATOM	8418	CG LYS C 995	83.085	35.192	32.505	1.00	0.00	C
ATOM	8419	CD LYS C 995	82.097	34.187	33.108	1.00	0.00	C
ATOM	8420	CE LYS C 995	80.662	34.402	32.619	1.00	0.00	C
ATOM	8421	NZ LYS C 995	79.773	33.343	33.141	1.00	0.00	N1+
ATOM	8422	N PHE C 996	87.325	34.601	34.207	1.00	0.00	N
ATOM	8423	CA PHE C 996	88.459	33.755	34.382	1.00	0.00	C
ATOM	8424	C PHE C 996	88.528	33.358	35.822	1.00	0.00	C
ATOM	8425	O PHE C 996	88.653	32.177	36.136	1.00	0.00	O
ATOM	8426	CB PHE C 996	89.787	34.459	34.036	1.00	0.00	C
ATOM	8427	CG PHE C 996	90.894	33.483	34.256	1.00	0.00	C
ATOM	8428	CD1 PHE C 996	91.267	32.609	33.262	1.00	0.00	C
ATOM	8429	CD2 PHE C 996	91.557	33.438	35.460	1.00	0.00	C
ATOM	8430	CE1 PHE C 996	92.284	31.707	33.462	1.00	0.00	C
ATOM	8431	CE2 PHE C 996	92.577	32.540	35.665	1.00	0.00	C
ATOM	8432	CZ PHE C 996	92.945	31.671	34.666	1.00	0.00	C
ATOM	8433	N GLN C 997	88.430	34.337	36.743	1.00	0.00	N
ATOM	8434	CA GLN C 997	88.535	34.018	38.139	1.00	0.00	C
ATOM	8435	C GLN C 997	87.392	33.152	38.557	1.00	0.00	C
ATOM	8436	O GLN C 997	87.557	32.233	39.354	1.00	0.00	O
ATOM	8437	CB GLN C 997	88.545	35.230	39.087	1.00	0.00	C
ATOM	8438	CG GLN C 997	88.606	34.790	40.555	1.00	0.00	C
ATOM	8439	CD GLN C 997	88.948	35.982	41.427	1.00	0.00	C
ATOM	8440	NE2 GLN C 997	89.696	36.959	40.852	1.00	0.00	N
ATOM	8441	OE1 GLN C 997	88.589	36.035	42.603	1.00	0.00	O

ATOM	8442	N	ARG	C	998	86.193	33.437	38.035	1.00	0.00	N
ATOM	8443	CA	ARG	C	998	85.021	32.697	38.396	1.00	0.00	C
ATOM	8444	C	ARG	C	998	85.201	31.260	38.009	1.00	0.00	C
ATOM	8445	O	ARG	C	998	84.916	30.358	38.792	1.00	0.00	O
ATOM	8446	CB	ARG	C	998	83.805	33.229	37.626	1.00	0.00	C
ATOM	8447	CG	ARG	C	998	82.582	32.324	37.664	1.00	0.00	C
ATOM	8448	CD	ARG	C	998	82.438	31.448	36.420	1.00	0.00	C
ATOM	8449	NE	ARG	C	998	81.200	30.640	36.607	1.00	0.00	N
ATOM	8450	CZ	ARG	C	998	79.993	31.201	36.310	1.00	0.00	C
ATOM	8451	NH1	ARG	C	998	79.941	32.475	35.826	1.00	0.00	N
ATOM	8452	NH2	ARG	C	998	78.839	30.501	36.513	1.00	0.00	N
ATOM	8453	N	TYR	C	999	85.694	31.035	36.777	1.00	0.00	N
ATOM	8454	CA	TYR	C	999	85.905	29.739	36.205	1.00	0.00	C
ATOM	8455	C	TYR	C	999	86.950	29.022	36.995	1.00	0.00	C
ATOM	8456	O	TYR	C	999	86.827	27.834	37.281	1.00	0.00	O
ATOM	8457	CB	TYR	C	999	86.398	29.852	34.749	1.00	0.00	C
ATOM	8458	CG	TYR	C	999	86.691	28.500	34.204	1.00	0.00	C
ATOM	8459	CD1	TYR	C	999	85.663	27.635	33.929	1.00	0.00	C
ATOM	8460	CD2	TYR	C	999	87.978	28.095	33.935	1.00	0.00	C
ATOM	8461	CE1	TYR	C	999	85.896	26.385	33.416	1.00	0.00	C
ATOM	8462	CE2	TYR	C	999	88.223	26.845	33.417	1.00	0.00	C
ATOM	8463	CZ	TYR	C	999	87.183	25.985	33.162	1.00	0.00	C
ATOM	8464	OH	TYR	C	999	87.417	24.702	32.633	1.00	0.00	O
ATOM	8465	N	PHE	C	1000	88.017	29.742	37.368	1.00	0.00	N
ATOM	8466	CA	PHE	C	1000	89.103	29.147	38.083	1.00	0.00	C
ATOM	8467	C	PHE	C	1000	88.578	28.620	39.377	1.00	0.00	C
ATOM	8468	O	PHE	C	1000	88.870	27.486	39.752	1.00	0.00	O
ATOM	8469	CB	PHE	C	1000	90.209	30.171	38.398	1.00	0.00	C
ATOM	8470	CG	PHE	C	1000	91.301	29.483	39.139	1.00	0.00	C
ATOM	8471	CD1	PHE	C	1000	92.249	28.747	38.461	1.00	0.00	C
ATOM	8472	CD2	PHE	C	1000	91.382	29.580	40.508	1.00	0.00	C
ATOM	8473	CE1	PHE	C	1000	93.260	28.117	39.145	1.00	0.00	C
ATOM	8474	CE2	PHE	C	1000	92.393	28.949	41.195	1.00	0.00	C
ATOM	8475	CZ	PHE	C	1000	93.333	28.216	40.513	1.00	0.00	C
ATOM	8476	N	LEU	C	1001	87.769	29.429	40.086	1.00	0.00	N
ATOM	8477	CA	LEU	C	1001	87.265	29.026	41.363	1.00	0.00	C
ATOM	8478	C	LEU	C	1001	86.374	27.827	41.225	1.00	0.00	C
ATOM	8479	O	LEU	C	1001	86.479	26.888	42.012	1.00	0.00	O
ATOM	8480	CB	LEU	C	1001	86.451	30.115	42.081	1.00	0.00	C
ATOM	8481	CG	LEU	C	1001	87.297	31.318	42.526	1.00	0.00	C
ATOM	8482	CD1	LEU	C	1001	86.474	32.257	43.416	1.00	0.00	C
ATOM	8483	CD2	LEU	C	1001	88.605	30.869	43.192	1.00	0.00	C
ATOM	8484	N	VAL	C	1002	85.480	27.818	40.221	1.00	0.00	N
ATOM	8485	CA	VAL	C	1002	84.565	26.721	40.102	1.00	0.00	C

ATOM	8486	C	VAL C1002	85.334	25.472	39.814	1.00	0.00	C
ATOM	8487	O	VAL C1002	85.026	24.413	40.357	1.00	0.00	O
ATOM	8488	CB	VAL C1002	83.542	26.903	39.014	1.00	0.00	C
ATOM	8489	CG1	VAL C1002	82.692	28.144	39.348	1.00	0.00	C
ATOM	8490	CG2	VAL C1002	84.252	26.971	37.653	1.00	0.00	C
ATOM	8491	N	GLN C1003	86.363	25.559	38.945	1.00	0.00	N
ATOM	8492	CA	GLN C1003	87.121	24.390	38.603	1.00	0.00	C
ATOM	8493	C	GLN C1003	87.809	23.877	39.824	1.00	0.00	C
ATOM	8494	O	GLN C1003	87.836	22.675	40.070	1.00	0.00	O
ATOM	8495	CB	GLN C1003	88.268	24.642	37.619	1.00	0.00	C
ATOM	8496	CG	GLN C1003	87.858	24.955	36.190	1.00	0.00	C
ATOM	8497	CD	GLN C1003	89.150	24.867	35.401	1.00	0.00	C
ATOM	8498	NE2	GLN C1003	89.982	25.939	35.484	1.00	0.00	N
ATOM	8499	OE1	GLN C1003	89.427	23.855	34.762	1.00	0.00	O
ATOM	8500	N	GLU C1004	88.385	24.790	40.628	1.00	0.00	N
ATOM	8501	CA	GLU C1004	89.123	24.382	41.787	1.00	0.00	C
ATOM	8502	C	GLU C1004	88.164	23.683	42.697	1.00	0.00	C
ATOM	8503	O	GLU C1004	88.489	22.675	43.321	1.00	0.00	O
ATOM	8504	CB	GLU C1004	89.718	25.583	42.544	1.00	0.00	C
ATOM	8505	CG	GLU C1004	90.526	25.204	43.784	1.00	0.00	C
ATOM	8506	CD	GLU C1004	91.039	26.496	44.406	1.00	0.00	C
ATOM	8507	OE1	GLU C1004	91.459	27.396	43.630	1.00	0.00	O
ATOM	8508	OE2	GLU C1004	91.012	26.605	45.661	1.00	0.00	O
ATOM	8509	N	TYR C1005	86.940	24.226	42.759	1.00	0.00	N
ATOM	8510	CA	TYR C1005	85.839	23.740	43.534	1.00	0.00	C
ATOM	8511	C	TYR C1005	85.504	22.356	43.067	1.00	0.00	C
ATOM	8512	O	TYR C1005	85.362	21.439	43.872	1.00	0.00	O
ATOM	8513	CB	TYR C1005	84.640	24.682	43.278	1.00	0.00	C
ATOM	8514	CG	TYR C1005	83.304	24.099	43.594	1.00	0.00	C
ATOM	8515	CD1	TYR C1005	82.710	23.230	42.706	1.00	0.00	C
ATOM	8516	CD2	TYR C1005	82.618	24.450	44.734	1.00	0.00	C
ATOM	8517	CE1	TYR C1005	81.471	22.695	42.952	1.00	0.00	C
ATOM	8518	CE2	TYR C1005	81.376	23.916	44.988	1.00	0.00	C
ATOM	8519	CZ	TYR C1005	80.801	23.040	44.097	1.00	0.00	C
ATOM	8520	OH	TYR C1005	79.525	22.497	44.361	1.00	0.00	O
ATOM	8521	N	CYS C1006	85.399	22.176	41.740	1.00	0.00	N
ATOM	8522	CA	CYS C1006	85.031	20.903	41.197	1.00	0.00	C
ATOM	8523	C	CYS C1006	86.091	19.902	41.528	1.00	0.00	C
ATOM	8524	O	CYS C1006	85.794	18.782	41.938	1.00	0.00	O
ATOM	8525	CB	CYS C1006	84.870	20.931	39.668	1.00	0.00	C
ATOM	8526	SG	CYS C1006	83.510	22.014	39.134	1.00	0.00	S
ATOM	8527	N	SER C1007	87.369	20.286	41.361	1.00	0.00	N
ATOM	8528	CA	SER C1007	88.425	19.349	41.597	1.00	0.00	C
ATOM	8529	C	SER C1007	88.398	18.932	43.032	1.00	0.00	C

ATOM	8530	O	SER C1007	88.406	17.740	43.338	1.00	0.00	O
ATOM	8531	CB	SER C1007	89.817	19.946	41.315	1.00	0.00	C
ATOM	8532	OG	SER C1007	90.827	18.979	41.567	1.00	0.00	O
ATOM	8533	N	ARG C1008	88.355	19.911	43.954	1.00	0.00	N
ATOM	8534	CA	ARG C1008	88.409	19.594	45.354	1.00	0.00	C
ATOM	8535	C	ARG C1008	87.205	18.806	45.743	1.00	0.00	C
ATOM	8536	O	ARG C1008	87.311	17.786	46.422	1.00	0.00	O
ATOM	8537	CB	ARG C1008	88.454	20.847	46.245	1.00	0.00	C
ATOM	8538	CG	ARG C1008	88.514	20.532	47.742	1.00	0.00	C
ATOM	8539	CD	ARG C1008	88.619	21.783	48.619	1.00	0.00	C
ATOM	8540	NE	ARG C1008	88.613	21.338	50.043	1.00	0.00	N
ATOM	8541	CZ	ARG C1008	87.451	21.360	50.755	1.00	0.00	C
ATOM	8542	NH1	ARG C1008	86.308	21.833	50.184	1.00	0.00	N
ATOM	8543	NH2	ARG C1008	87.432	20.913	52.048	1.00	0.00	N
ATOM	8544	N	LEU C1009	86.020	19.257	45.298	1.00	0.00	N
ATOM	8545	CA	LEU C1009	84.790	18.621	45.660	1.00	0.00	C
ATOM	8546	C	LEU C1009	84.697	17.262	45.051	1.00	0.00	C
ATOM	8547	O	LEU C1009	83.968	16.411	45.560	1.00	0.00	O
ATOM	8548	CB	LEU C1009	83.525	19.421	45.318	1.00	0.00	C
ATOM	8549	CG	LEU C1009	83.381	20.667	46.209	1.00	0.00	C
ATOM	8550	CD1	LEU C1009	81.969	21.256	46.115	1.00	0.00	C
ATOM	8551	CD2	LEU C1009	83.806	20.372	47.657	1.00	0.00	C
ATOM	8552	N	ASN C1010	85.363	17.039	43.904	1.00	0.00	N
ATOM	8553	CA	ASN C1010	85.263	15.736	43.321	1.00	0.00	C
ATOM	8554	C	ASN C1010	86.301	14.830	43.972	1.00	0.00	C
ATOM	8555	O	ASN C1010	86.919	15.273	44.977	1.00	0.00	O
ATOM	8556	CB	ASN C1010	85.495	15.715	41.798	1.00	0.00	C
ATOM	8557	CG	ASN C1010	84.874	14.429	41.261	1.00	0.00	C
ATOM	8558	ND2	ASN C1010	84.849	14.282	39.910	1.00	0.00	N
ATOM	8559	OD1	ASN C1010	84.409	13.582	42.023	1.00	0.00	O
ATOM	8560	OXT	ASN C1010	86.482	13.681	43.486	1.00	0.00	OI-
HETATM	8561	CA	CA1 C1011	91.371	24.513	52.372	1.00	0.00	CA2+
TER	8562	CA1	C1011						
ATOM	8563	N	GLN D 671	103.052	56.585	26.782	1.00	0.00	N1+
ATOM	8564	CA	GLN D 671	103.610	55.608	25.883	1.00	0.00	C
ATOM	8565	C	GLN D 671	104.502	54.656	26.620	1.00	0.00	C
ATOM	8566	O	GLN D 671	105.136	54.974	27.624	1.00	0.00	O
ATOM	8567	CB	GLN D 671	104.451	56.257	24.771	1.00	0.00	C
ATOM	8568	CG	GLN D 671	105.671	56.996	25.321	1.00	0.00	C
ATOM	8569	CD	GLN D 671	106.378	57.701	24.171	1.00	0.00	C
ATOM	8570	NE2	GLN D 671	107.388	58.545	24.510	1.00	0.00	N
ATOM	8571	OE1	GLN D 671	106.036	57.513	23.004	1.00	0.00	O
ATOM	8572	N	PRO D 672	104.502	53.447	26.116	1.00	0.00	N
ATOM	8573	CA	PRO D 672	105.300	52.397	26.690	1.00	0.00	C

ATOM	8574	C	PRO D 672	106.777	52.576	26.523	1.00	0.00	C
ATOM	8575	O	PRO D 672	107.523	51.985	27.301	1.00	0.00	O
ATOM	8576	CB	PRO D 672	104.776	51.099	26.082	1.00	0.00	C
ATOM	8577	CG	PRO D 672	103.305	51.414	25.767	1.00	0.00	C
ATOM	8578	CD	PRO D 672	103.293	52.928	25.496	1.00	0.00	C
ATOM	8579	N	GLY D 673	107.234	53.342	25.512	1.00	0.00	N
ATOM	8580	CA	GLY D 673	108.651	53.436	25.310	1.00	0.00	C
ATOM	8581	C	GLY D 673	109.305	54.101	26.481	1.00	0.00	C
ATOM	8582	O	GLY D 673	110.263	53.580	27.049	1.00	0.00	O
ATOM	8583	N	VAL D 674	108.779	55.269	26.887	1.00	0.00	N
ATOM	8584	CA	VAL D 674	109.350	55.999	27.975	1.00	0.00	C
ATOM	8585	C	VAL D 674	109.176	55.195	29.215	1.00	0.00	C
ATOM	8586	O	VAL D 674	110.056	55.163	30.072	1.00	0.00	O
ATOM	8587	CB	VAL D 674	108.688	57.329	28.189	1.00	0.00	C
ATOM	8588	CG1	VAL D 674	107.198	57.092	28.481	1.00	0.00	C
ATOM	8589	CG2	VAL D 674	109.430	58.071	29.317	1.00	0.00	C
ATOM	8590	N	GLN D 675	108.020	54.518	29.342	1.00	0.00	N
ATOM	8591	CA	GLN D 675	107.742	53.754	30.521	1.00	0.00	C
ATOM	8592	C	GLN D 675	108.755	52.659	30.631	1.00	0.00	C
ATOM	8593	O	GLN D 675	109.238	52.362	31.722	1.00	0.00	O
ATOM	8594	CB	GLN D 675	106.348	53.109	30.505	1.00	0.00	C
ATOM	8595	CG	GLN D 675	105.208	54.134	30.527	1.00	0.00	C
ATOM	8596	CD	GLN D 675	105.237	54.846	31.870	1.00	0.00	C
ATOM	8597	NE2	GLN D 675	104.636	56.066	31.923	1.00	0.00	N
ATOM	8598	OE1	GLN D 675	105.780	54.336	32.849	1.00	0.00	O
ATOM	8599	N	ASN D 676	109.109	52.035	29.494	1.00	0.00	N
ATOM	8600	CA	ASN D 676	110.071	50.971	29.506	1.00	0.00	C
ATOM	8601	C	ASN D 676	111.352	51.561	30.000	1.00	0.00	C
ATOM	8602	O	ASN D 676	112.106	50.925	30.732	1.00	0.00	O
ATOM	8603	CB	ASN D 676	110.322	50.379	28.108	1.00	0.00	C
ATOM	8604	CG	ASN D 676	111.187	49.135	28.267	1.00	0.00	C
ATOM	8605	ND2	ASN D 676	110.725	47.998	27.684	1.00	0.00	N
ATOM	8606	OD1	ASN D 676	112.242	49.174	28.897	1.00	0.00	O
ATOM	8607	N	PHE D 677	111.605	52.819	29.607	1.00	0.00	N
ATOM	8608	CA	PHE D 677	112.779	53.541	29.993	1.00	0.00	C
ATOM	8609	C	PHE D 677	112.779	53.659	31.483	1.00	0.00	C
ATOM	8610	O	PHE D 677	113.819	53.501	32.119	1.00	0.00	O
ATOM	8611	CB	PHE D 677	112.796	54.964	29.409	1.00	0.00	C
ATOM	8612	CG	PHE D 677	114.026	55.669	29.869	1.00	0.00	C
ATOM	8613	CD1	PHE D 677	115.219	55.516	29.200	1.00	0.00	C
ATOM	8614	CD2	PHE D 677	113.980	56.491	30.971	1.00	0.00	C
ATOM	8615	CE1	PHE D 677	116.349	56.171	29.630	1.00	0.00	C
ATOM	8616	CE2	PHE D 677	115.106	57.147	31.405	1.00	0.00	C
ATOM	8617	CZ	PHE D 677	116.294	56.987	30.735	1.00	0.00	C

ATOM	8618	N	LEU D 678	111.604	53.934	32.089	1.00	0.00	N
ATOM	8619	CA	LEU D 678	111.575	54.081	33.519	1.00	0.00	C
ATOM	8620	C	LEU D 678	112.064	52.810	34.120	1.00	0.00	C
ATOM	8621	O	LEU D 678	112.903	52.813	35.019	1.00	0.00	O
ATOM	8622	CB	LEU D 678	110.175	54.187	34.147	1.00	0.00	C
ATOM	8623	CG	LEU D 678	109.380	55.487	33.967	1.00	0.00	C
ATOM	8624	CD1	LEU D 678	108.955	55.721	32.514	1.00	0.00	C
ATOM	8625	CD2	LEU D 678	108.197	55.492	34.950	1.00	0.00	C
ATOM	8626	N	SER D 679	111.537	51.687	33.614	1.00	0.00	N
ATOM	8627	CA	SER D 679	111.831	50.396	34.158	1.00	0.00	C
ATOM	8628	C	SER D 679	113.297	50.133	34.040	1.00	0.00	C
ATOM	8629	O	SER D 679	113.915	49.603	34.965	1.00	0.00	O
ATOM	8630	CB	SER D 679	111.101	49.271	33.406	1.00	0.00	C
ATOM	8631	OG	SER D 679	111.428	48.012	33.971	1.00	0.00	O
ATOM	8632	N	LYS D 680	113.902	50.505	32.901	1.00	0.00	N
ATOM	8633	CA	LYS D 680	115.295	50.234	32.719	1.00	0.00	C
ATOM	8634	C	LYS D 680	116.049	50.989	33.761	1.00	0.00	C
ATOM	8635	O	LYS D 680	116.984	50.463	34.362	1.00	0.00	O
ATOM	8636	CB	LYS D 680	115.797	50.676	31.331	1.00	0.00	C
ATOM	8637	CG	LYS D 680	117.266	50.348	31.021	1.00	0.00	C
ATOM	8638	CD	LYS D 680	118.297	51.110	31.860	1.00	0.00	C
ATOM	8639	CE	LYS D 680	119.750	50.798	31.489	1.00	0.00	C
ATOM	8640	NZ	LYS D 680	120.671	51.614	32.309	1.00	0.00	N1+
ATOM	8641	N	GLN D 681	115.658	52.253	33.999	1.00	0.00	N
ATOM	8642	CA	GLN D 681	116.341	53.077	34.951	1.00	0.00	C
ATOM	8643	C	GLN D 681	116.143	52.529	36.333	1.00	0.00	C
ATOM	8644	O	GLN D 681	117.067	52.522	37.141	1.00	0.00	O
ATOM	8645	CB	GLN D 681	115.841	54.533	34.927	1.00	0.00	C
ATOM	8646	CG	GLN D 681	116.547	55.446	35.932	1.00	0.00	C
ATOM	8647	CD	GLN D 681	116.091	56.875	35.660	1.00	0.00	C
ATOM	8648	NE2	GLN D 681	115.201	57.412	36.535	1.00	0.00	N
ATOM	8649	OE1	GLN D 681	116.516	57.496	34.689	1.00	0.00	O
ATOM	8650	N	TRP D 682	114.921	52.051	36.624	1.00	0.00	N
ATOM	8651	CA	TRP D 682	114.553	51.568	37.926	1.00	0.00	C
ATOM	8652	C	TRP D 682	115.403	50.391	38.304	1.00	0.00	C
ATOM	8653	O	TRP D 682	115.980	50.354	39.389	1.00	0.00	O
ATOM	8654	CB	TRP D 682	113.089	51.098	37.945	1.00	0.00	C
ATOM	8655	CG	TRP D 682	112.592	50.586	39.276	1.00	0.00	C
ATOM	8656	CD1	TRP D 682	112.641	49.322	39.788	1.00	0.00	C
ATOM	8657	CD2	TRP D 682	111.914	51.396	40.246	1.00	0.00	C
ATOM	8658	CE2	TRP D 682	111.588	50.566	41.318	1.00	0.00	C
ATOM	8659	CE3	TRP D 682	111.586	52.720	40.245	1.00	0.00	C
ATOM	8660	NE1	TRP D 682	112.040	49.295	41.026	1.00	0.00	N
ATOM	8661	CZ2	TRP D 682	110.923	51.051	42.410	1.00	0.00	C

ATOM	8662	CZ3 TRP D 682	110.920	53.208	41.347	1.00	0.00	C
ATOM	8663	CH2 TRP D 682	110.595	52.387	42.410	1.00	0.00	C
ATOM	8664	N TYR D 683	115.498	49.392	37.406	1.00	0.00	N
ATOM	8665	CA TYR D 683	116.250	48.191	37.649	1.00	0.00	C
ATOM	8666	C TYR D 683	117.699	48.515	37.747	1.00	0.00	C
ATOM	8667	O TYR D 683	118.432	47.875	38.502	1.00	0.00	O
ATOM	8668	CB TYR D 683	116.107	47.122	36.552	1.00	0.00	C
ATOM	8669	CG TYR D 683	114.748	46.524	36.647	1.00	0.00	C
ATOM	8670	CD1 TYR D 683	114.425	45.697	37.698	1.00	0.00	C
ATOM	8671	CD2 TYR D 683	113.805	46.767	35.676	1.00	0.00	C
ATOM	8672	CE1 TYR D 683	113.176	45.132	37.788	1.00	0.00	C
ATOM	8673	CE2 TYR D 683	112.554	46.204	35.762	1.00	0.00	C
ATOM	8674	CZ TYR D 683	112.238	45.388	36.819	1.00	0.00	C
ATOM	8675	OH TYR D 683	110.952	44.811	36.902	1.00	0.00	O
ATOM	8676	N GLY D 684	118.170	49.489	36.950	1.00	0.00	N
ATOM	8677	CA GLY D 684	119.561	49.807	36.991	1.00	0.00	C
ATOM	8678	C GLY D 684	120.270	48.797	36.152	1.00	0.00	C
ATOM	8679	O GLY D 684	119.756	48.353	35.126	1.00	0.00	O
ATOM	8680	N GLU D 685	121.485	48.425	36.586	1.00	0.00	N
ATOM	8681	CA GLU D 685	122.333	47.491	35.917	1.00	0.00	C
ATOM	8682	C GLU D 685	121.648	46.167	35.867	1.00	0.00	C
ATOM	8683	O GLU D 685	121.761	45.445	34.878	1.00	0.00	O
ATOM	8684	CB GLU D 685	123.653	47.292	36.685	1.00	0.00	C
ATOM	8685	CG GLU D 685	124.451	46.048	36.291	1.00	0.00	C
ATOM	8686	CD GLU D 685	125.240	46.316	35.021	1.00	0.00	C
ATOM	8687	OE1 GLU D 685	125.693	47.478	34.827	1.00	0.00	O
ATOM	8688	OE2 GLU D 685	125.405	45.350	34.232	1.00	0.00	O
ATOM	8689	N ILE D 686	120.925	45.805	36.940	1.00	0.00	N
ATOM	8690	CA ILE D 686	120.302	44.518	36.970	1.00	0.00	C
ATOM	8691	C ILE D 686	119.270	44.462	35.895	1.00	0.00	C
ATOM	8692	O ILE D 686	118.472	45.380	35.720	1.00	0.00	O
ATOM	8693	CB ILE D 686	119.649	44.195	38.286	1.00	0.00	C
ATOM	8694	CG1 ILE D 686	120.692	44.188	39.420	1.00	0.00	C
ATOM	8695	CG2 ILE D 686	118.932	42.847	38.130	1.00	0.00	C
ATOM	8696	CD1 ILE D 686	121.274	45.568	39.733	1.00	0.00	C
ATOM	8697	N SER D 687	119.292	43.360	35.120	1.00	0.00	N
ATOM	8698	CA SER D 687	118.378	43.183	34.035	1.00	0.00	C
ATOM	8699	C SER D 687	117.046	42.818	34.601	1.00	0.00	C
ATOM	8700	O SER D 687	116.932	42.361	35.739	1.00	0.00	O
ATOM	8701	CB SER D 687	118.796	42.076	33.054	1.00	0.00	C
ATOM	8702	OG SER D 687	117.843	41.960	32.008	1.00	0.00	O
ATOM	8703	N ARG D 688	115.993	43.027	33.790	1.00	0.00	N
ATOM	8704	CA ARG D 688	114.635	42.775	34.167	1.00	0.00	C
ATOM	8705	C ARG D 688	114.327	41.326	33.952	1.00	0.00	C

ATOM	8706	O	ARG D 688	115.198	40.532	33.602	1.00	0.00	O
ATOM	8707	CB	ARG D 688	113.624	43.603	33.355	1.00	0.00	C
ATOM	8708	CG	ARG D 688	113.695	43.354	31.849	1.00	0.00	C
ATOM	8709	CD	ARG D 688	112.883	44.366	31.037	1.00	0.00	C
ATOM	8710	NE	ARG D 688	113.689	45.616	30.952	1.00	0.00	N
ATOM	8711	CZ	ARG D 688	113.070	46.826	30.824	1.00	0.00	C
ATOM	8712	NH1	ARG D 688	111.707	46.905	30.834	1.00	0.00	N
ATOM	8713	NH2	ARG D 688	113.817	47.962	30.684	1.00	0.00	N
ATOM	8714	N	ASP D 689	113.052	40.968	34.187	1.00	0.00	N
ATOM	8715	CA	ASP D 689	112.545	39.636	34.049	1.00	0.00	C
ATOM	8716	C	ASP D 689	113.250	38.711	34.988	1.00	0.00	C
ATOM	8717	O	ASP D 689	113.605	37.591	34.626	1.00	0.00	O
ATOM	8718	CB	ASP D 689	112.678	39.066	32.625	1.00	0.00	C
ATOM	8719	CG	ASP D 689	111.809	37.818	32.543	1.00	0.00	C
ATOM	8720	OD1	ASP D 689	111.120	37.509	33.551	1.00	0.00	O
ATOM	8721	OD2	ASP D 689	111.822	37.161	31.467	1.00	0.00	O
ATOM	8722	N	THR D 690	113.475	39.174	36.233	1.00	0.00	N
ATOM	8723	CA	THR D 690	114.039	38.328	37.244	1.00	0.00	C
ATOM	8724	C	THR D 690	113.051	38.341	38.365	1.00	0.00	C
ATOM	8725	O	THR D 690	112.207	39.232	38.448	1.00	0.00	O
ATOM	8726	CB	THR D 690	115.350	38.808	37.805	1.00	0.00	C
ATOM	8727	CG2	THR D 690	116.373	38.896	36.660	1.00	0.00	C
ATOM	8728	OG1	THR D 690	115.192	40.072	38.430	1.00	0.00	O
ATOM	8729	N	LYS D 691	113.109	37.328	39.251	1.00	0.00	N
ATOM	8730	CA	LYS D 691	112.166	37.286	40.330	1.00	0.00	C
ATOM	8731	C	LYS D 691	112.517	38.355	41.311	1.00	0.00	C
ATOM	8732	O	LYS D 691	113.681	38.604	41.614	1.00	0.00	O
ATOM	8733	CB	LYS D 691	112.155	35.950	41.084	1.00	0.00	C
ATOM	8734	CG	LYS D 691	111.520	34.819	40.280	1.00	0.00	C
ATOM	8735	CD	LYS D 691	111.844	33.426	40.814	1.00	0.00	C
ATOM	8736	CE	LYS D 691	111.096	32.304	40.095	1.00	0.00	C
ATOM	8737	NZ	LYS D 691	111.470	30.994	40.669	1.00	0.00	N1+
ATOM	8738	N	ASN D 692	111.491	39.048	41.825	1.00	0.00	N
ATOM	8739	CA	ASN D 692	111.729	40.089	42.772	1.00	0.00	C
ATOM	8740	C	ASN D 692	112.203	39.484	44.055	1.00	0.00	C
ATOM	8741	O	ASN D 692	113.104	40.006	44.705	1.00	0.00	O
ATOM	8742	CB	ASN D 692	110.473	40.915	43.080	1.00	0.00	C
ATOM	8743	CG	ASN D 692	110.918	42.200	43.761	1.00	0.00	C
ATOM	8744	ND2	ASN D 692	110.455	43.359	43.220	1.00	0.00	N
ATOM	8745	OD1	ASN D 692	111.664	42.177	44.738	1.00	0.00	O
ATOM	8746	N	TRP D 693	111.603	38.343	44.444	1.00	0.00	N
ATOM	8747	CA	TRP D 693	111.924	37.758	45.712	1.00	0.00	C
ATOM	8748	C	TRP D 693	113.369	37.387	45.717	1.00	0.00	C
ATOM	8749	O	TRP D 693	114.072	37.607	46.701	1.00	0.00	O

ATOM	8750	CB	TRP	D	693	111.115	36.485	46.029	1.00	0.00	C
ATOM	8751	CG	TRP	D	693	111.384	35.298	45.131	1.00	0.00	C
ATOM	8752	CD1	TRP	D	693	110.753	34.898	43.990	1.00	0.00	C
ATOM	8753	CD2	TRP	D	693	112.403	34.322	45.394	1.00	0.00	C
ATOM	8754	CE2	TRP	D	693	112.333	33.365	44.381	1.00	0.00	C
ATOM	8755	CE3	TRP	D	693	113.321	34.226	46.400	1.00	0.00	C
ATOM	8756	NE1	TRP	D	693	111.315	33.732	43.526	1.00	0.00	N
ATOM	8757	CZ2	TRP	D	693	113.181	32.298	44.357	1.00	0.00	C
ATOM	8758	CZ3	TRP	D	693	114.180	33.149	46.371	1.00	0.00	C
ATOM	8759	CH2	TRP	D	693	114.111	32.203	45.370	1.00	0.00	C
ATOM	8760	N	LYS	D	694	113.854	36.822	44.599	1.00	0.00	N
ATOM	8761	CA	LYS	D	694	115.213	36.380	44.542	1.00	0.00	C
ATOM	8762	C	LYS	D	694	116.122	37.560	44.694	1.00	0.00	C
ATOM	8763	O	LYS	D	694	117.177	37.450	45.318	1.00	0.00	O
ATOM	8764	CB	LYS	D	694	115.553	35.641	43.236	1.00	0.00	C
ATOM	8765	CG	LYS	D	694	115.396	36.523	42.009	1.00	0.00	C
ATOM	8766	CD	LYS	D	694	115.786	35.865	40.692	1.00	0.00	C
ATOM	8767	CE	LYS	D	694	114.771	34.837	40.196	1.00	0.00	C
ATOM	8768	NZ	LYS	D	694	115.028	34.536	38.772	1.00	0.00	N1+
ATOM	8769	N	ILE	D	695	115.742	38.722	44.137	1.00	0.00	N
ATOM	8770	CA	ILE	D	695	116.574	39.886	44.221	1.00	0.00	C
ATOM	8771	C	ILE	D	695	116.712	40.240	45.670	1.00	0.00	C
ATOM	8772	O	ILE	D	695	117.805	40.522	46.158	1.00	0.00	O
ATOM	8773	CB	ILE	D	695	115.932	41.109	43.632	1.00	0.00	C
ATOM	8774	CG1	ILE	D	695	115.379	40.876	42.224	1.00	0.00	C
ATOM	8775	CG2	ILE	D	695	116.984	42.224	43.674	1.00	0.00	C
ATOM	8776	CD1	ILE	D	695	114.481	42.023	41.756	1.00	0.00	C
ATOM	8777	N	ILE	D	696	115.577	40.239	46.391	1.00	0.00	N
ATOM	8778	CA	ILE	D	696	115.556	40.627	47.770	1.00	0.00	C
ATOM	8779	C	ILE	D	696	116.361	39.652	48.559	1.00	0.00	C
ATOM	8780	O	ILE	D	696	117.139	40.041	49.430	1.00	0.00	O
ATOM	8781	CB	ILE	D	696	114.172	40.658	48.351	1.00	0.00	C
ATOM	8782	CG1	ILE	D	696	113.305	41.691	47.611	1.00	0.00	C
ATOM	8783	CG2	ILE	D	696	114.296	40.930	49.861	1.00	0.00	C
ATOM	8784	CD1	ILE	D	696	111.819	41.601	47.957	1.00	0.00	C
ATOM	8785	N	LEU	D	697	116.209	38.349	48.267	1.00	0.00	N
ATOM	8786	CA	LEU	D	697	116.926	37.371	49.027	1.00	0.00	C
ATOM	8787	C	LEU	D	697	118.367	37.665	48.810	1.00	0.00	C
ATOM	8788	O	LEU	D	697	119.144	37.722	49.759	1.00	0.00	O
ATOM	8789	CB	LEU	D	697	116.637	35.928	48.555	1.00	0.00	C
ATOM	8790	CG	LEU	D	697	117.183	34.788	49.450	1.00	0.00	C
ATOM	8791	CD1	LEU	D	697	116.818	33.418	48.856	1.00	0.00	C
ATOM	8792	CD2	LEU	D	697	118.687	34.900	49.742	1.00	0.00	C
ATOM	8793	N	CYS	D	698	118.739	37.933	47.548	1.00	0.00	N

ATOM	8794	CA	CYS D 698	120.107	38.161	47.205	1.00	0.00	C
ATOM	8795	C	CYS D 698	120.584	39.329	47.993	1.00	0.00	C
ATOM	8796	O	CYS D 698	121.731	39.347	48.427	1.00	0.00	O
ATOM	8797	CB	CYS D 698	120.306	38.491	45.713	1.00	0.00	C
ATOM	8798	SG	CYS D 698	119.937	37.073	44.638	1.00	0.00	S
ATOM	8799	N	LEU D 699	119.698	40.310	48.234	1.00	0.00	N
ATOM	8800	CA	LEU D 699	120.059	41.533	48.891	1.00	0.00	C
ATOM	8801	C	LEU D 699	120.623	41.269	50.248	1.00	0.00	C
ATOM	8802	O	LEU D 699	121.583	41.923	50.648	1.00	0.00	O
ATOM	8803	CB	LEU D 699	118.855	42.459	49.120	1.00	0.00	C
ATOM	8804	CG	LEU D 699	119.232	43.776	49.823	1.00	0.00	C
ATOM	8805	CD1	LEU D 699	119.990	44.719	48.879	1.00	0.00	C
ATOM	8806	CD2	LEU D 699	118.015	44.422	50.499	1.00	0.00	C
ATOM	8807	N	PHE D 700	120.028	40.356	51.040	1.00	0.00	N
ATOM	8808	CA	PHE D 700	120.588	40.176	52.349	1.00	0.00	C
ATOM	8809	C	PHE D 700	121.940	39.517	52.263	1.00	0.00	C
ATOM	8810	O	PHE D 700	122.918	39.988	52.838	1.00	0.00	O
ATOM	8811	CB	PHE D 700	119.727	39.318	53.290	1.00	0.00	C
ATOM	8812	CG	PHE D 700	120.286	39.531	54.651	1.00	0.00	C
ATOM	8813	CD1	PHE D 700	119.841	40.580	55.423	1.00	0.00	C
ATOM	8814	CD2	PHE D 700	121.263	38.703	55.157	1.00	0.00	C
ATOM	8815	CE1	PHE D 700	120.347	40.800	56.680	1.00	0.00	C
ATOM	8816	CE2	PHE D 700	121.775	38.920	56.415	1.00	0.00	C
ATOM	8817	CZ	PHE D 700	121.318	39.967	57.179	1.00	0.00	C
ATOM	8818	N	ILE D 701	121.976	38.399	51.513	1.00	0.00	N
ATOM	8819	CA	ILE D 701	123.009	37.435	51.216	1.00	0.00	C
ATOM	8820	C	ILE D 701	124.103	37.930	50.289	1.00	0.00	C
ATOM	8821	O	ILE D 701	125.080	37.225	50.049	1.00	0.00	O
ATOM	8822	CB	ILE D 701	122.448	36.069	50.854	1.00	0.00	C
ATOM	8823	CG1	ILE D 701	123.553	35.030	50.603	1.00	0.00	C
ATOM	8824	CG2	ILE D 701	121.401	36.203	49.746	1.00	0.00	C
ATOM	8825	CD1	ILE D 701	124.354	34.672	51.852	1.00	0.00	C
ATOM	8826	N	ILE D 702	123.987	39.147	49.721	1.00	0.00	N
ATOM	8827	CA	ILE D 702	124.739	39.574	48.563	1.00	0.00	C
ATOM	8828	C	ILE D 702	126.204	39.238	48.552	1.00	0.00	C
ATOM	8829	O	ILE D 702	126.603	38.704	47.519	1.00	0.00	O
ATOM	8830	CB	ILE D 702	124.723	41.069	48.337	1.00	0.00	C
ATOM	8831	CG1	ILE D 702	125.395	41.798	49.510	1.00	0.00	C
ATOM	8832	CG2	ILE D 702	123.293	41.555	48.061	1.00	0.00	C
ATOM	8833	CD1	ILE D 702	125.703	43.268	49.228	1.00	0.00	C
ATOM	8834	N	PRO D 703	127.048	39.475	49.528	1.00	0.00	N
ATOM	8835	CA	PRO D 703	128.464	39.214	49.365	1.00	0.00	C
ATOM	8836	C	PRO D 703	128.794	37.838	48.854	1.00	0.00	C
ATOM	8837	O	PRO D 703	129.563	37.739	47.898	1.00	0.00	O

ATOM	8838	CB	PRO D 703	129.073	39.442	50.746	1.00	0.00	C
ATOM	8839	CG	PRO D 703	127.929	39.051	51.697	1.00	0.00	C
ATOM	8840	CD	PRO D 703	126.654	39.437	50.927	1.00	0.00	C
ATOM	8841	N	LEU D 704	128.285	36.770	49.497	1.00	0.00	N
ATOM	8842	CA	LEU D 704	128.552	35.437	49.025	1.00	0.00	C
ATOM	8843	C	LEU D 704	127.726	35.108	47.809	1.00	0.00	C
ATOM	8844	O	LEU D 704	128.250	34.740	46.761	1.00	0.00	O
ATOM	8845	CB	LEU D 704	128.203	34.386	50.104	1.00	0.00	C
ATOM	8846	CG	LEU D 704	128.687	32.933	49.877	1.00	0.00	C
ATOM	8847	CD1	LEU D 704	128.198	32.046	51.028	1.00	0.00	C
ATOM	8848	CD2	LEU D 704	128.319	32.330	48.512	1.00	0.00	C
ATOM	8849	N	VAL D 705	126.392	35.253	47.963	1.00	0.00	N
ATOM	8850	CA	VAL D 705	125.351	34.822	47.059	1.00	0.00	C
ATOM	8851	C	VAL D 705	125.211	35.625	45.804	1.00	0.00	C
ATOM	8852	O	VAL D 705	124.813	35.092	44.770	1.00	0.00	O
ATOM	8853	CB	VAL D 705	124.001	34.859	47.695	1.00	0.00	C
ATOM	8854	CG1	VAL D 705	123.620	36.336	47.854	1.00	0.00	C
ATOM	8855	CG2	VAL D 705	123.016	34.047	46.836	1.00	0.00	C
ATOM	8856	N	GLY D 706	125.505	36.934	45.858	1.00	0.00	N
ATOM	8857	CA	GLY D 706	125.178	37.834	44.798	1.00	0.00	C
ATOM	8858	C	GLY D 706	125.829	37.449	43.507	1.00	0.00	C
ATOM	8859	O	GLY D 706	125.280	37.708	42.438	1.00	0.00	O
ATOM	8860	N	CYS D 707	127.033	36.863	43.562	1.00	0.00	N
ATOM	8861	CA	CYS D 707	127.739	36.625	42.340	1.00	0.00	C
ATOM	8862	C	CYS D 707	126.982	35.745	41.386	1.00	0.00	C
ATOM	8863	O	CYS D 707	126.774	36.120	40.233	1.00	0.00	O
ATOM	8864	CB	CYS D 707	129.106	35.953	42.561	1.00	0.00	C
ATOM	8865	SG	CYS D 707	130.293	37.017	43.434	1.00	0.00	S
ATOM	8866	N	GLY D 708	126.545	34.555	41.833	1.00	0.00	N
ATOM	8867	CA	GLY D 708	126.009	33.606	40.894	1.00	0.00	C
ATOM	8868	C	GLY D 708	124.688	33.952	40.263	1.00	0.00	C
ATOM	8869	O	GLY D 708	124.575	33.965	39.037	1.00	0.00	O
ATOM	8870	N	PHE D 709	123.651	34.244	41.070	1.00	0.00	N
ATOM	8871	CA	PHE D 709	122.334	34.327	40.497	1.00	0.00	C
ATOM	8872	C	PHE D 709	122.077	35.540	39.665	1.00	0.00	C
ATOM	8873	O	PHE D 709	121.464	35.435	38.605	1.00	0.00	O
ATOM	8874	CB	PHE D 709	121.179	34.249	41.505	1.00	0.00	C
ATOM	8875	CG	PHE D 709	119.985	33.984	40.649	1.00	0.00	C
ATOM	8876	CD1	PHE D 709	119.644	32.690	40.333	1.00	0.00	C
ATOM	8877	CD2	PHE D 709	119.223	35.009	40.138	1.00	0.00	C
ATOM	8878	CE1	PHE D 709	118.557	32.420	39.537	1.00	0.00	C
ATOM	8879	CE2	PHE D 709	118.138	34.743	39.335	1.00	0.00	C
ATOM	8880	CZ	PHE D 709	117.800	33.449	39.032	1.00	0.00	C
ATOM	8881	N	VAL D 710	122.532	36.725	40.112	1.00	0.00	N

ATOM	8882	CA	VAL D 710	122.096	37.929	39.462	1.00	0.00	C
ATOM	8883	C	VAL D 710	122.439	37.921	38.004	1.00	0.00	C
ATOM	8884	O	VAL D 710	123.592	37.790	37.592	1.00	0.00	O
ATOM	8885	CB	VAL D 710	122.675	39.179	40.056	1.00	0.00	C
ATOM	8886	CG1	VAL D 710	122.258	39.258	41.525	1.00	0.00	C
ATOM	8887	CG2	VAL D 710	124.194	39.169	39.860	1.00	0.00	C
ATOM	8888	N	SER D 711	121.394	38.078	37.169	1.00	0.00	N
ATOM	8889	CA	SER D 711	121.651	38.162	35.768	1.00	0.00	C
ATOM	8890	C	SER D 711	121.428	39.593	35.422	1.00	0.00	C
ATOM	8891	O	SER D 711	120.323	40.006	35.083	1.00	0.00	O
ATOM	8892	CB	SER D 711	120.659	37.359	34.903	1.00	0.00	C
ATOM	8893	OG	SER D 711	120.753	35.973	35.190	1.00	0.00	O
ATOM	8894	N	PHE D 712	122.503	40.387	35.494	1.00	0.00	N
ATOM	8895	CA	PHE D 712	122.439	41.780	35.184	1.00	0.00	C
ATOM	8896	C	PHE D 712	122.925	41.957	33.789	1.00	0.00	C
ATOM	8897	O	PHE D 712	123.345	40.991	33.152	1.00	0.00	O
ATOM	8898	CB	PHE D 712	123.256	42.638	36.173	1.00	0.00	C
ATOM	8899	CG	PHE D 712	124.638	42.079	36.268	1.00	0.00	C
ATOM	8900	CD1	PHE D 712	124.865	40.914	36.963	1.00	0.00	C
ATOM	8901	CD2	PHE D 712	125.709	42.723	35.695	1.00	0.00	C
ATOM	8902	CE1	PHE D 712	126.132	40.389	37.063	1.00	0.00	C
ATOM	8903	CE2	PHE D 712	126.979	42.203	35.790	1.00	0.00	C
ATOM	8904	CZ	PHE D 712	127.194	41.033	36.473	1.00	0.00	C
ATOM	8905	N	ARG D 713	122.837	43.205	33.265	1.00	0.00	N
ATOM	8906	CA	ARG D 713	123.338	43.490	31.948	1.00	0.00	C
ATOM	8907	C	ARG D 713	124.752	42.980	31.944	1.00	0.00	C
ATOM	8908	O	ARG D 713	125.377	42.842	32.989	1.00	0.00	O
ATOM	8909	CB	ARG D 713	123.333	44.985	31.579	1.00	0.00	C
ATOM	8910	CG	ARG D 713	121.916	45.528	31.349	1.00	0.00	C
ATOM	8911	CD	ARG D 713	121.869	46.977	30.849	1.00	0.00	C
ATOM	8912	NE	ARG D 713	120.444	47.287	30.534	1.00	0.00	N
ATOM	8913	CZ	ARG D 713	120.128	48.330	29.713	1.00	0.00	C
ATOM	8914	NH1	ARG D 713	121.112	49.125	29.203	1.00	0.00	N
ATOM	8915	NH2	ARG D 713	118.823	48.571	29.393	1.00	0.00	N
ATOM	8916	N	LYS D 714	125.324	42.754	30.760	1.00	0.00	N
ATOM	8917	CA	LYS D 714	126.462	41.893	30.575	1.00	0.00	C
ATOM	8918	C	LYS D 714	127.641	42.051	31.515	1.00	0.00	C
ATOM	8919	O	LYS D 714	128.058	41.039	32.066	1.00	0.00	O
ATOM	8920	CB	LYS D 714	127.001	42.011	29.140	1.00	0.00	C
ATOM	8921	CG	LYS D 714	128.016	40.937	28.760	1.00	0.00	C
ATOM	8922	CD	LYS D 714	128.276	40.874	27.253	1.00	0.00	C
ATOM	8923	CE	LYS D 714	129.297	39.811	26.849	1.00	0.00	C
ATOM	8924	NZ	LYS D 714	129.495	39.841	25.383	1.00	0.00	N1+
ATOM	8925	N	LYS D 715	128.196	43.254	31.759	1.00	0.00	N

ATOM	8926	CA	LYS D 715	129.400	43.470	32.552	1.00	0.00	C
ATOM	8927	C	LYS D 715	130.427	42.379	32.358	1.00	0.00	C
ATOM	8928	O	LYS D 715	130.683	41.575	33.254	1.00	0.00	O
ATOM	8929	CB	LYS D 715	129.102	43.547	34.055	1.00	0.00	C
ATOM	8930	CG	LYS D 715	128.038	44.591	34.380	1.00	0.00	C
ATOM	8931	CD	LYS D 715	128.425	46.001	33.949	1.00	0.00	C
ATOM	8932	CE	LYS D 715	129.007	46.820	35.096	1.00	0.00	C
ATOM	8933	NZ	LYS D 715	130.177	46.116	35.664	1.00	0.00	N1+
ATOM	8934	N	PRO D 716	131.060	42.391	31.209	1.00	0.00	N
ATOM	8935	CA	PRO D 716	132.033	41.401	30.801	1.00	0.00	C
ATOM	8936	C	PRO D 716	133.418	41.466	31.367	1.00	0.00	C
ATOM	8937	O	PRO D 716	134.176	40.539	31.091	1.00	0.00	O
ATOM	8938	CB	PRO D 716	132.069	41.456	29.272	1.00	0.00	C
ATOM	8939	CG	PRO D 716	131.519	42.848	28.926	1.00	0.00	C
ATOM	8940	CD	PRO D 716	130.544	43.138	30.073	1.00	0.00	C
ATOM	8941	N	VAL D 717	133.799	42.514	32.131	1.00	0.00	N
ATOM	8942	CA	VAL D 717	135.183	42.646	32.518	1.00	0.00	C
ATOM	8943	C	VAL D 717	135.667	41.409	33.205	1.00	0.00	C
ATOM	8944	O	VAL D 717	135.028	40.886	34.115	1.00	0.00	O
ATOM	8945	CB	VAL D 717	135.447	43.808	33.431	1.00	0.00	C
ATOM	8946	CG1	VAL D 717	134.709	43.570	34.757	1.00	0.00	C
ATOM	8947	CG2	VAL D 717	136.971	43.965	33.585	1.00	0.00	C
ATOM	8948	N	ASP D 718	136.828	40.899	32.740	1.00	0.00	N
ATOM	8949	CA	ASP D 718	137.437	39.721	33.288	1.00	0.00	C
ATOM	8950	C	ASP D 718	138.439	40.118	34.309	1.00	0.00	C
ATOM	8951	O	ASP D 718	138.378	41.204	34.883	1.00	0.00	O
ATOM	8952	CB	ASP D 718	138.172	38.838	32.267	1.00	0.00	C
ATOM	8953	CG	ASP D 718	137.151	37.917	31.636	1.00	0.00	C
ATOM	8954	OD1	ASP D 718	136.059	37.757	32.244	1.00	0.00	O
ATOM	8955	OD2	ASP D 718	137.447	37.346	30.553	1.00	0.00	O
ATOM	8956	N	LYS D 719	139.391	39.201	34.560	1.00	0.00	N
ATOM	8957	CA	LYS D 719	140.412	39.430	35.534	1.00	0.00	C
ATOM	8958	C	LYS D 719	139.739	39.521	36.855	1.00	0.00	C
ATOM	8959	O	LYS D 719	140.267	40.108	37.800	1.00	0.00	O
ATOM	8960	CB	LYS D 719	141.167	40.749	35.302	1.00	0.00	C
ATOM	8961	CG	LYS D 719	142.066	40.744	34.065	1.00	0.00	C
ATOM	8962	CD	LYS D 719	143.260	39.794	34.181	1.00	0.00	C
ATOM	8963	CE	LYS D 719	144.364	40.331	35.096	1.00	0.00	C
ATOM	8964	NZ	LYS D 719	145.488	39.369	35.163	1.00	0.00	N1+
HETATM	8965	N	HIE D 720	138.543	38.915	36.949	1.00	0.00	N
HETATM	8966	CA	HIE D 720	137.780	38.927	38.163	1.00	0.00	C
HETATM	8967	C	HIE D 720	137.476	40.347	38.497	1.00	0.00	C
HETATM	8968	O	HIE D 720	137.122	40.668	39.630	1.00	0.00	O
HETATM	8969	CB	HIE D 720	138.527	38.294	39.350	1.00	0.00	C

HETATM 8970	CG HIE D 720	138.748	36.821	39.185	1.00	0.00	C
HETATM 8971	CD2 HIE D 720	139.797	36.140	38.644	1.00	0.00	C
HETATM 8972	ND1 HIE D 720	137.846	35.858	39.586	1.00	0.00	N
HETATM 8973	CE1 HIE D 720	138.387	34.657	39.271	1.00	0.00	C
HETATM 8974	NE2 HIE D 720	139.571	34.777	38.696	1.00	0.00	N
ATOM 8975	N LYS D 721	137.603	41.238	37.497	1.00	0.00	N
ATOM 8976	CA LYS D 721	137.242	42.612	37.670	1.00	0.00	C
ATOM 8977	C LYS D 721	135.765	42.615	37.812	1.00	0.00	C
ATOM 8978	O LYS D 721	135.189	43.384	38.574	1.00	0.00	O
ATOM 8979	CB LYS D 721	137.549	43.493	36.447	1.00	0.00	C
ATOM 8980	CG LYS D 721	138.969	44.049	36.396	1.00	0.00	C
ATOM 8981	CD LYS D 721	139.264	45.059	37.506	1.00	0.00	C
ATOM 8982	CE LYS D 721	139.156	44.481	38.916	1.00	0.00	C
ATOM 8983	NZ LYS D 721	139.449	45.530	39.919	1.00	0.00	NI+
ATOM 8984	N LYS D 722	135.129	41.685	37.083	1.00	0.00	N
ATOM 8985	CA LYS D 722	133.707	41.650	36.959	1.00	0.00	C
ATOM 8986	C LYS D 722	133.048	41.537	38.292	1.00	0.00	C
ATOM 8987	O LYS D 722	132.037	42.192	38.529	1.00	0.00	O
ATOM 8988	CB LYS D 722	133.202	40.470	36.112	1.00	0.00	C
ATOM 8989	CG LYS D 722	133.546	39.095	36.692	1.00	0.00	C
ATOM 8990	CD LYS D 722	135.049	38.837	36.811	1.00	0.00	C
ATOM 8991	CE LYS D 722	135.385	37.428	37.307	1.00	0.00	C
ATOM 8992	NZ LYS D 722	135.278	36.459	36.192	1.00	0.00	NI+
ATOM 8993	N LEU D 723	133.590	40.720	39.209	1.00	0.00	N
ATOM 8994	CA LEU D 723	132.902	40.505	40.447	1.00	0.00	C
ATOM 8995	C LEU D 723	132.739	41.810	41.175	1.00	0.00	C
ATOM 8996	O LEU D 723	131.631	42.162	41.577	1.00	0.00	O
ATOM 8997	CB LEU D 723	133.674	39.500	41.338	1.00	0.00	C
ATOM 8998	CG LEU D 723	133.043	39.092	42.689	1.00	0.00	C
ATOM 8999	CD1 LEU D 723	133.864	37.965	43.336	1.00	0.00	C
ATOM 9000	CD2 LEU D 723	132.886	40.269	43.664	1.00	0.00	C
ATOM 9001	N LEU D 724	133.833	42.583	41.335	1.00	0.00	N
ATOM 9002	CA LEU D 724	133.764	43.800	42.098	1.00	0.00	C
ATOM 9003	C LEU D 724	132.864	44.771	41.413	1.00	0.00	C
ATOM 9004	O LEU D 724	131.993	45.379	42.035	1.00	0.00	O
ATOM 9005	CB LEU D 724	135.123	44.513	42.221	1.00	0.00	C
ATOM 9006	CG LEU D 724	136.197	43.705	42.968	1.00	0.00	C
ATOM 9007	CD1 LEU D 724	135.798	43.473	44.434	1.00	0.00	C
ATOM 9008	CD2 LEU D 724	136.548	42.411	42.219	1.00	0.00	C
ATOM 9009	N TRP D 725	133.041	44.918	40.090	1.00	0.00	N
ATOM 9010	CA TRP D 725	132.284	45.876	39.350	1.00	0.00	C
ATOM 9011	C TRP D 725	130.844	45.491	39.435	1.00	0.00	C
ATOM 9012	O TRP D 725	129.969	46.340	39.578	1.00	0.00	O
ATOM 9013	CB TRP D 725	132.693	45.949	37.867	1.00	0.00	C

ATOM	9014	CG	TRP	D	725	134.069	46.535	37.633	1.00	0.00	C
ATOM	9015	CD1	TRP	D	725	135.278	45.910	37.527	1.00	0.00	C
ATOM	9016	CD2	TRP	D	725	134.328	47.941	37.485	1.00	0.00	C
ATOM	9017	CE2	TRP	D	725	135.704	48.087	37.297	1.00	0.00	C
ATOM	9018	CE3	TRP	D	725	133.491	49.018	37.506	1.00	0.00	C
ATOM	9019	NE1	TRP	D	725	136.273	46.832	37.327	1.00	0.00	N
ATOM	9020	CZ2	TRP	D	725	136.265	49.322	37.125	1.00	0.00	C
ATOM	9021	CZ3	TRP	D	725	134.061	50.260	37.329	1.00	0.00	C
ATOM	9022	CH2	TRP	D	725	135.421	50.408	37.145	1.00	0.00	C
ATOM	9023	N	TYR	D	726	130.560	44.180	39.372	1.00	0.00	N
ATOM	9024	CA	TYR	D	726	129.199	43.748	39.411	1.00	0.00	C
ATOM	9025	C	TYR	D	726	128.565	44.173	40.690	1.00	0.00	C
ATOM	9026	O	TYR	D	726	127.439	44.670	40.684	1.00	0.00	O
ATOM	9027	CB	TYR	D	726	129.001	42.227	39.340	1.00	0.00	C
ATOM	9028	CG	TYR	D	726	127.630	42.047	39.895	1.00	0.00	C
ATOM	9029	CD1	TYR	D	726	126.522	42.447	39.181	1.00	0.00	C
ATOM	9030	CD2	TYR	D	726	127.461	41.480	41.137	1.00	0.00	C
ATOM	9031	CE1	TYR	D	726	125.264	42.292	39.708	1.00	0.00	C
ATOM	9032	CE2	TYR	D	726	126.207	41.322	41.669	1.00	0.00	C
ATOM	9033	CZ	TYR	D	726	125.109	41.730	40.951	1.00	0.00	C
ATOM	9034	OH	TYR	D	726	123.820	41.565	41.493	1.00	0.00	O
ATOM	9035	N	TYR	D	727	129.259	43.993	41.824	1.00	0.00	N
ATOM	9036	CA	TYR	D	727	128.643	44.331	43.073	1.00	0.00	C
ATOM	9037	C	TYR	D	727	128.314	45.784	43.111	1.00	0.00	C
ATOM	9038	O	TYR	D	727	127.222	46.156	43.542	1.00	0.00	O
ATOM	9039	CB	TYR	D	727	129.501	43.993	44.306	1.00	0.00	C
ATOM	9040	CG	TYR	D	727	129.327	42.540	44.576	1.00	0.00	C
ATOM	9041	CD1	TYR	D	727	128.244	42.122	45.311	1.00	0.00	C
ATOM	9042	CD2	TYR	D	727	130.215	41.600	44.108	1.00	0.00	C
ATOM	9043	CE1	TYR	D	727	128.046	40.789	45.582	1.00	0.00	C
ATOM	9044	CE2	TYR	D	727	130.024	40.264	44.375	1.00	0.00	C
ATOM	9045	CZ	TYR	D	727	128.937	39.859	45.113	1.00	0.00	C
ATOM	9046	OH	TYR	D	727	128.736	38.491	45.394	1.00	0.00	O
ATOM	9047	N	VAL	D	728	129.228	46.657	42.660	1.00	0.00	N
ATOM	9048	CA	VAL	D	728	128.919	48.054	42.747	1.00	0.00	C
ATOM	9049	C	VAL	D	728	127.717	48.330	41.895	1.00	0.00	C
ATOM	9050	O	VAL	D	728	126.818	49.066	42.299	1.00	0.00	O
ATOM	9051	CB	VAL	D	728	130.040	48.955	42.302	1.00	0.00	C
ATOM	9052	CG1	VAL	D	728	130.283	48.776	40.795	1.00	0.00	C
ATOM	9053	CG2	VAL	D	728	129.681	50.398	42.699	1.00	0.00	C
ATOM	9054	N	ALA	D	729	127.660	47.723	40.693	1.00	0.00	N
ATOM	9055	CA	ALA	D	729	126.578	47.932	39.774	1.00	0.00	C
ATOM	9056	C	ALA	D	729	125.312	47.457	40.407	1.00	0.00	C
ATOM	9057	O	ALA	D	729	124.249	48.042	40.214	1.00	0.00	O

ATOM	9058	CB	ALA	D 729	126.752	47.166	38.451	1.00	0.00	C
ATOM	9059	N	PHE	D 730	125.385	46.349	41.167	1.00	0.00	N
ATOM	9060	CA	PHE	D 730	124.211	45.843	41.815	1.00	0.00	C
ATOM	9061	C	PHE	D 730	123.743	46.877	42.790	1.00	0.00	C
ATOM	9062	O	PHE	D 730	122.546	47.132	42.910	1.00	0.00	O
ATOM	9063	CB	PHE	D 730	124.472	44.543	42.597	1.00	0.00	C
ATOM	9064	CG	PHE	D 730	123.192	44.149	43.251	1.00	0.00	C
ATOM	9065	CD1	PHE	D 730	122.182	43.563	42.522	1.00	0.00	C
ATOM	9066	CD2	PHE	D 730	123.000	44.357	44.598	1.00	0.00	C
ATOM	9067	CE1	PHE	D 730	121.003	43.193	43.123	1.00	0.00	C
ATOM	9068	CE2	PHE	D 730	121.825	43.991	45.204	1.00	0.00	C
ATOM	9069	CZ	PHE	D 730	120.821	43.407	44.468	1.00	0.00	C
ATOM	9070	N	PHE	D 731	124.695	47.507	43.500	1.00	0.00	N
ATOM	9071	CA	PHE	D 731	124.412	48.495	44.499	1.00	0.00	C
ATOM	9072	C	PHE	D 731	123.779	49.701	43.885	1.00	0.00	C
ATOM	9073	O	PHE	D 731	123.010	50.392	44.547	1.00	0.00	O
ATOM	9074	CB	PHE	D 731	125.644	48.956	45.298	1.00	0.00	C
ATOM	9075	CG	PHE	D 731	125.926	47.921	46.337	1.00	0.00	C
ATOM	9076	CD1	PHE	D 731	125.217	47.928	47.514	1.00	0.00	C
ATOM	9077	CD2	PHE	D 731	126.890	46.960	46.146	1.00	0.00	C
ATOM	9078	CE1	PHE	D 731	125.458	46.988	48.491	1.00	0.00	C
ATOM	9079	CE2	PHE	D 731	127.136	46.017	47.117	1.00	0.00	C
ATOM	9080	CZ	PHE	D 731	126.420	46.028	48.290	1.00	0.00	C
ATOM	9081	N	THR	D 732	124.110	50.015	42.619	1.00	0.00	N
ATOM	9082	CA	THR	D 732	123.605	51.206	41.995	1.00	0.00	C
ATOM	9083	C	THR	D 732	122.109	51.174	41.848	1.00	0.00	C
ATOM	9084	O	THR	D 732	121.470	52.221	41.934	1.00	0.00	O
ATOM	9085	CB	THR	D 732	124.173	51.478	40.630	1.00	0.00	C
ATOM	9086	CG2	THR	D 732	125.711	51.464	40.729	1.00	0.00	C
ATOM	9087	OG1	THR	D 732	123.732	50.508	39.695	1.00	0.00	O
ATOM	9088	N	SER	D 733	121.493	49.997	41.609	1.00	0.00	N
ATOM	9089	CA	SER	D 733	120.078	49.965	41.329	1.00	0.00	C
ATOM	9090	C	SER	D 733	119.282	50.544	42.460	1.00	0.00	C
ATOM	9091	O	SER	D 733	119.490	50.245	43.633	1.00	0.00	O
ATOM	9092	CB	SER	D 733	119.531	48.552	41.042	1.00	0.00	C
ATOM	9093	OG	SER	D 733	119.607	47.747	42.208	1.00	0.00	O
ATOM	9094	N	PRO	D 734	118.361	51.400	42.089	1.00	0.00	N
ATOM	9095	CA	PRO	D 734	117.479	52.041	43.030	1.00	0.00	C
ATOM	9096	C	PRO	D 734	116.507	51.095	43.647	1.00	0.00	C
ATOM	9097	O	PRO	D 734	116.022	51.376	44.741	1.00	0.00	O
ATOM	9098	CB	PRO	D 734	116.799	53.175	42.267	1.00	0.00	C
ATOM	9099	CG	PRO	D 734	117.803	53.523	41.157	1.00	0.00	C
ATOM	9100	CD	PRO	D 734	118.551	52.206	40.892	1.00	0.00	C
ATOM	9101	N	PHE	D 735	116.174	49.989	42.953	1.00	0.00	N

ATOM	9102	CA	PHE D 735	115.237	49.054	43.496	1.00	0.00	C
ATOM	9103	C	PHE D 735	115.843	48.474	44.727	1.00	0.00	C
ATOM	9104	O	PHE D 735	115.197	48.387	45.771	1.00	0.00	O
ATOM	9105	CB	PHE D 735	114.930	47.889	42.536	1.00	0.00	C
ATOM	9106	CG	PHE D 735	113.952	46.986	43.212	1.00	0.00	C
ATOM	9107	CD1	PHE D 735	112.611	47.282	43.226	1.00	0.00	C
ATOM	9108	CD2	PHE D 735	114.386	45.835	43.828	1.00	0.00	C
ATOM	9109	CE1	PHE D 735	111.716	46.440	43.851	1.00	0.00	C
ATOM	9110	CE2	PHE D 735	113.501	44.991	44.455	1.00	0.00	C
ATOM	9111	CZ	PHE D 735	112.161	45.298	44.468	1.00	0.00	C
ATOM	9112	N	VAL D 736	117.123	48.069	44.638	1.00	0.00	N
ATOM	9113	CA	VAL D 736	117.757	47.481	45.776	1.00	0.00	C
ATOM	9114	C	VAL D 736	117.889	48.531	46.828	1.00	0.00	C
ATOM	9115	O	VAL D 736	117.723	48.259	48.013	1.00	0.00	O
ATOM	9116	CB	VAL D 736	119.121	46.912	45.499	1.00	0.00	C
ATOM	9117	CG1	VAL D 736	118.974	45.819	44.427	1.00	0.00	C
ATOM	9118	CG2	VAL D 736	120.099	48.039	45.140	1.00	0.00	C
ATOM	9119	N	VAL D 737	118.185	49.775	46.407	1.00	0.00	N
ATOM	9120	CA	VAL D 737	118.371	50.846	47.339	1.00	0.00	C
ATOM	9121	C	VAL D 737	117.096	51.056	48.092	1.00	0.00	C
ATOM	9122	O	VAL D 737	117.115	51.237	49.306	1.00	0.00	O
ATOM	9123	CB	VAL D 737	118.716	52.146	46.671	1.00	0.00	C
ATOM	9124	CG1	VAL D 737	118.796	53.245	47.743	1.00	0.00	C
ATOM	9125	CG2	VAL D 737	120.017	51.956	45.871	1.00	0.00	C
ATOM	9126	N	PHE D 738	115.953	51.030	47.384	1.00	0.00	N
ATOM	9127	CA	PHE D 738	114.690	51.268	48.020	1.00	0.00	C
ATOM	9128	C	PHE D 738	114.427	50.204	49.034	1.00	0.00	C
ATOM	9129	O	PHE D 738	114.065	50.499	50.171	1.00	0.00	O
ATOM	9130	CB	PHE D 738	113.512	51.255	47.030	1.00	0.00	C
ATOM	9131	CG	PHE D 738	112.274	51.486	47.824	1.00	0.00	C
ATOM	9132	CD1	PHE D 738	111.910	52.756	48.207	1.00	0.00	C
ATOM	9133	CD2	PHE D 738	111.473	50.428	48.181	1.00	0.00	C
ATOM	9134	CE1	PHE D 738	110.764	52.964	48.938	1.00	0.00	C
ATOM	9135	CE2	PHE D 738	110.325	50.631	48.911	1.00	0.00	C
ATOM	9136	CZ	PHE D 738	109.970	51.901	49.293	1.00	0.00	C
ATOM	9137	N	SER D 739	114.620	48.932	48.650	1.00	0.00	N
ATOM	9138	CA	SER D 739	114.340	47.842	49.541	1.00	0.00	C
ATOM	9139	C	SER D 739	115.265	47.944	50.709	1.00	0.00	C
ATOM	9140	O	SER D 739	114.878	47.683	51.849	1.00	0.00	O
ATOM	9141	CB	SER D 739	114.574	46.466	48.891	1.00	0.00	C
ATOM	9142	OG	SER D 739	115.944	46.304	48.553	1.00	0.00	O
ATOM	9143	N	TRP D 740	116.523	48.332	50.450	1.00	0.00	N
ATOM	9144	CA	TRP D 740	117.489	48.430	51.497	1.00	0.00	C
ATOM	9145	C	TRP D 740	117.067	49.499	52.450	1.00	0.00	C

ATOM	9146	O	TRP D 740	117.133	49.325	53.665	1.00	0.00	O
ATOM	9147	CB	TRP D 740	118.893	48.770	50.970	1.00	0.00	C
ATOM	9148	CG	TRP D 740	119.947	48.843	52.044	1.00	0.00	C
ATOM	9149	CD1	TRP D 740	120.497	49.930	52.658	1.00	0.00	C
ATOM	9150	CD2	TRP D 740	120.550	47.687	52.644	1.00	0.00	C
ATOM	9151	CE2	TRP D 740	121.456	48.143	53.599	1.00	0.00	C
ATOM	9152	CE3	TRP D 740	120.362	46.356	52.413	1.00	0.00	C
ATOM	9153	NE1	TRP D 740	121.415	49.523	53.597	1.00	0.00	N
ATOM	9154	CZ2	TRP D 740	122.190	47.269	54.349	1.00	0.00	C
ATOM	9155	CZ3	TRP D 740	121.106	45.474	53.167	1.00	0.00	C
ATOM	9156	CH2	TRP D 740	122.002	45.923	54.114	1.00	0.00	C
ATOM	9157	N	ASN D 741	116.601	50.642	51.913	1.00	0.00	N
ATOM	9158	CA	ASN D 741	116.241	51.748	52.750	1.00	0.00	C
ATOM	9159	C	ASN D 741	115.126	51.341	53.654	1.00	0.00	C
ATOM	9160	O	ASN D 741	115.167	51.621	54.851	1.00	0.00	O
ATOM	9161	CB	ASN D 741	115.764	52.970	51.947	1.00	0.00	C
ATOM	9162	CG	ASN D 741	116.963	53.544	51.203	1.00	0.00	C
ATOM	9163	ND2	ASN D 741	116.733	53.996	49.942	1.00	0.00	N
ATOM	9164	OD1	ASN D 741	118.077	53.583	51.727	1.00	0.00	O
ATOM	9165	N	VAL D 742	114.098	50.653	53.122	1.00	0.00	N
ATOM	9166	CA	VAL D 742	112.993	50.301	53.963	1.00	0.00	C
ATOM	9167	C	VAL D 742	113.468	49.369	55.035	1.00	0.00	C
ATOM	9168	O	VAL D 742	113.109	49.528	56.200	1.00	0.00	O
ATOM	9169	CB	VAL D 742	111.850	49.652	53.232	1.00	0.00	C
ATOM	9170	CG1	VAL D 742	111.282	50.667	52.225	1.00	0.00	C
ATOM	9171	CG2	VAL D 742	112.325	48.338	52.594	1.00	0.00	C
ATOM	9172	N	VAL D 743	114.304	48.380	54.678	1.00	0.00	N
ATOM	9173	CA	VAL D 743	114.749	47.427	55.654	1.00	0.00	C
ATOM	9174	C	VAL D 743	115.532	48.139	56.712	1.00	0.00	C
ATOM	9175	O	VAL D 743	115.339	47.906	57.905	1.00	0.00	O
ATOM	9176	CB	VAL D 743	115.643	46.373	55.075	1.00	0.00	C
ATOM	9177	CG1	VAL D 743	116.127	45.467	56.220	1.00	0.00	C
ATOM	9178	CG2	VAL D 743	114.875	45.623	53.971	1.00	0.00	C
ATOM	9179	N	PHE D 744	116.435	49.043	56.301	1.00	0.00	N
ATOM	9180	CA	PHE D 744	117.294	49.738	57.217	1.00	0.00	C
ATOM	9181	C	PHE D 744	116.467	50.594	58.115	1.00	0.00	C
ATOM	9182	O	PHE D 744	116.685	50.635	59.325	1.00	0.00	O
ATOM	9183	CB	PHE D 744	118.283	50.665	56.488	1.00	0.00	C
ATOM	9184	CG	PHE D 744	119.201	51.273	57.493	1.00	0.00	C
ATOM	9185	CD1	PHE D 744	120.355	50.621	57.859	1.00	0.00	C
ATOM	9186	CD2	PHE D 744	118.913	52.487	58.069	1.00	0.00	C
ATOM	9187	CE1	PHE D 744	121.211	51.174	58.782	1.00	0.00	C
ATOM	9188	CE2	PHE D 744	119.765	53.046	58.993	1.00	0.00	C
ATOM	9189	CZ	PHE D 744	120.919	52.390	59.351	1.00	0.00	C

ATOM	9190	N	TYR D 745	115.478	51.302	57.542	1.00	0.00	N
ATOM	9191	CA	TYR D 745	114.727	52.233	58.320	1.00	0.00	C
ATOM	9192	C	TYR D 745	113.972	51.488	59.369	1.00	0.00	C
ATOM	9193	O	TYR D 745	113.874	51.943	60.507	1.00	0.00	O
ATOM	9194	CB	TYR D 745	113.719	53.059	57.508	1.00	0.00	C
ATOM	9195	CG	TYR D 745	113.403	54.221	58.379	1.00	0.00	C
ATOM	9196	CD1	TYR D 745	112.506	54.124	59.414	1.00	0.00	C
ATOM	9197	CD2	TYR D 745	114.034	55.424	58.159	1.00	0.00	C
ATOM	9198	CE1	TYR D 745	112.238	55.217	60.210	1.00	0.00	C
ATOM	9199	CE2	TYR D 745	113.774	56.517	58.949	1.00	0.00	C
ATOM	9200	CZ	TYR D 745	112.870	56.412	59.978	1.00	0.00	C
ATOM	9201	OH	TYR D 745	112.598	57.532	60.791	1.00	0.00	O
ATOM	9202	N	ILE D 746	113.405	50.320	59.014	1.00	0.00	N
ATOM	9203	CA	ILE D 746	112.638	49.586	59.975	1.00	0.00	C
ATOM	9204	C	ILE D 746	113.556	49.176	61.077	1.00	0.00	C
ATOM	9205	O	ILE D 746	113.220	49.297	62.250	1.00	0.00	O
ATOM	9206	CB	ILE D 746	111.955	48.369	59.406	1.00	0.00	C
ATOM	9207	CG1	ILE D 746	112.914	47.234	59.000	1.00	0.00	C
ATOM	9208	CG2	ILE D 746	111.132	48.875	58.219	1.00	0.00	C
ATOM	9209	CD1	ILE D 746	113.363	46.341	60.158	1.00	0.00	C
ATOM	9210	N	ALA D 747	114.769	48.715	60.727	1.00	0.00	N
ATOM	9211	CA	ALA D 747	115.681	48.242	61.723	1.00	0.00	C
ATOM	9212	C	ALA D 747	115.975	49.382	62.640	1.00	0.00	C
ATOM	9213	O	ALA D 747	116.042	49.216	63.856	1.00	0.00	O
ATOM	9214	CB	ALA D 747	117.020	47.766	61.132	1.00	0.00	C
ATOM	9215	N	PHE D 748	116.137	50.580	62.061	1.00	0.00	N
ATOM	9216	CA	PHE D 748	116.456	51.749	62.820	1.00	0.00	C
ATOM	9217	C	PHE D 748	115.327	52.007	63.768	1.00	0.00	C
ATOM	9218	O	PHE D 748	115.546	52.329	64.934	1.00	0.00	O
ATOM	9219	CB	PHE D 748	116.628	52.989	61.923	1.00	0.00	C
ATOM	9220	CG	PHE D 748	116.955	54.158	62.783	1.00	0.00	C
ATOM	9221	CD1	PHE D 748	118.247	54.380	63.203	1.00	0.00	C
ATOM	9222	CD2	PHE D 748	115.970	55.041	63.160	1.00	0.00	C
ATOM	9223	CE1	PHE D 748	118.548	55.464	63.995	1.00	0.00	C
ATOM	9224	CE2	PHE D 748	116.267	56.126	63.950	1.00	0.00	C
ATOM	9225	CZ	PHE D 748	117.557	56.339	64.368	1.00	0.00	C
ATOM	9226	N	LEU D 749	114.079	51.855	63.283	1.00	0.00	N
ATOM	9227	CA	LEU D 749	112.927	52.143	64.086	1.00	0.00	C
ATOM	9228	C	LEU D 749	112.878	51.214	65.261	1.00	0.00	C
ATOM	9229	O	LEU D 749	112.618	51.637	66.386	1.00	0.00	O
ATOM	9230	CB	LEU D 749	111.613	51.998	63.302	1.00	0.00	C
ATOM	9231	CG	LEU D 749	110.375	52.368	64.135	1.00	0.00	C
ATOM	9232	CD1	LEU D 749	110.460	53.826	64.601	1.00	0.00	C
ATOM	9233	CD2	LEU D 749	109.072	52.076	63.380	1.00	0.00	C

ATOM	9234	N	LEU D 750	113.141	49.916	65.032	1.00	0.00	N
ATOM	9235	CA	LEU D 750	113.082	48.938	66.079	1.00	0.00	C
ATOM	9236	C	LEU D 750	114.127	49.233	67.113	1.00	0.00	C
ATOM	9237	O	LEU D 750	113.855	49.158	68.309	1.00	0.00	O
ATOM	9238	CB	LEU D 750	113.299	47.515	65.539	1.00	0.00	C
ATOM	9239	CG	LEU D 750	112.058	46.938	64.826	1.00	0.00	C
ATOM	9240	CD1	LEU D 750	111.453	47.912	63.808	1.00	0.00	C
ATOM	9241	CD2	LEU D 750	112.402	45.599	64.163	1.00	0.00	C
ATOM	9242	N	LEU D 751	115.347	49.598	66.678	1.00	0.00	N
ATOM	9243	CA	LEU D 751	116.409	49.867	67.604	1.00	0.00	C
ATOM	9244	C	LEU D 751	116.019	51.051	68.430	1.00	0.00	C
ATOM	9245	O	LEU D 751	116.294	51.109	69.626	1.00	0.00	O
ATOM	9246	CB	LEU D 751	117.740	50.218	66.912	1.00	0.00	C
ATOM	9247	CG	LEU D 751	118.342	49.058	66.101	1.00	0.00	C
ATOM	9248	CD1	LEU D 751	119.671	49.467	65.444	1.00	0.00	C
ATOM	9249	CD2	LEU D 751	118.466	47.782	66.954	1.00	0.00	C
ATOM	9250	N	PHE D 752	115.353	52.024	67.790	1.00	0.00	N
ATOM	9251	CA	PHE D 752	114.941	53.250	68.406	1.00	0.00	C
ATOM	9252	C	PHE D 752	113.985	52.930	69.516	1.00	0.00	C
ATOM	9253	O	PHE D 752	114.094	53.472	70.613	1.00	0.00	O
ATOM	9254	CB	PHE D 752	114.219	54.138	67.375	1.00	0.00	C
ATOM	9255	CG	PHE D 752	113.929	55.488	67.933	1.00	0.00	C
ATOM	9256	CD1	PHE D 752	114.898	56.464	67.932	1.00	0.00	C
ATOM	9257	CD2	PHE D 752	112.683	55.784	68.437	1.00	0.00	C
ATOM	9258	CE1	PHE D 752	114.637	57.712	68.439	1.00	0.00	C
ATOM	9259	CE2	PHE D 752	112.414	57.035	68.944	1.00	0.00	C
ATOM	9260	CZ	PHE D 752	113.391	58.002	68.943	1.00	0.00	C
ATOM	9261	N	ALA D 753	113.016	52.033	69.249	1.00	0.00	N
ATOM	9262	CA	ALA D 753	112.032	51.657	70.222	1.00	0.00	C
ATOM	9263	C	ALA D 753	112.715	50.974	71.364	1.00	0.00	C
ATOM	9264	O	ALA D 753	112.380	51.198	72.524	1.00	0.00	O
ATOM	9265	CB	ALA D 753	110.976	50.688	69.658	1.00	0.00	C
ATOM	9266	N	TYR D 754	113.715	50.131	71.050	1.00	0.00	N
ATOM	9267	CA	TYR D 754	114.424	49.382	72.048	1.00	0.00	C
ATOM	9268	C	TYR D 754	115.063	50.363	72.967	1.00	0.00	C
ATOM	9269	O	TYR D 754	115.043	50.193	74.187	1.00	0.00	O
ATOM	9270	CB	TYR D 754	115.544	48.516	71.438	1.00	0.00	C
ATOM	9271	CG	TYR D 754	116.281	47.831	72.540	1.00	0.00	C
ATOM	9272	CD1	TYR D 754	115.748	46.725	73.160	1.00	0.00	C
ATOM	9273	CD2	TYR D 754	117.515	48.286	72.943	1.00	0.00	C
ATOM	9274	CE1	TYR D 754	116.428	46.090	74.171	1.00	0.00	C
ATOM	9275	CE2	TYR D 754	118.203	47.654	73.955	1.00	0.00	C
ATOM	9276	CZ	TYR D 754	117.657	46.555	74.570	1.00	0.00	C
ATOM	9277	OH	TYR D 754	118.358	45.906	75.610	1.00	0.00	O

ATOM	9278	N	VAL D 755	115.643	51.430	72.393	1.00	0.00	N
ATOM	9279	CA	VAL D 755	116.304	52.435	73.164	1.00	0.00	C
ATOM	9280	C	VAL D 755	115.298	53.076	74.061	1.00	0.00	C
ATOM	9281	O	VAL D 755	115.609	53.431	75.197	1.00	0.00	O
ATOM	9282	CB	VAL D 755	116.900	53.516	72.315	1.00	0.00	C
ATOM	9283	CG1	VAL D 755	117.513	54.571	73.249	1.00	0.00	C
ATOM	9284	CG2	VAL D 755	117.902	52.878	71.340	1.00	0.00	C
ATOM	9285	N	LEU D 756	114.051	53.243	73.578	1.00	0.00	N
ATOM	9286	CA	LEU D 756	113.043	53.906	74.354	1.00	0.00	C
ATOM	9287	C	LEU D 756	112.866	53.178	75.646	1.00	0.00	C
ATOM	9288	O	LEU D 756	112.869	53.788	76.713	1.00	0.00	O
ATOM	9289	CB	LEU D 756	111.659	53.867	73.677	1.00	0.00	C
ATOM	9290	CG	LEU D 756	111.516	54.763	72.433	1.00	0.00	C
ATOM	9291	CD1	LEU D 756	110.123	54.631	71.800	1.00	0.00	C
ATOM	9292	CD2	LEU D 756	111.833	56.217	72.790	1.00	0.00	C
ATOM	9293	N	LEU D 757	112.711	51.846	75.577	1.00	0.00	N
ATOM	9294	CA	LEU D 757	112.491	51.064	76.757	1.00	0.00	C
ATOM	9295	C	LEU D 757	113.747	51.101	77.583	1.00	0.00	C
ATOM	9296	O	LEU D 757	113.709	51.204	78.806	1.00	0.00	O
ATOM	9297	CB	LEU D 757	112.181	49.595	76.406	1.00	0.00	C
ATOM	9298	CG	LEU D 757	111.637	48.711	77.551	1.00	0.00	C
ATOM	9299	CD1	LEU D 757	111.374	47.283	77.051	1.00	0.00	C
ATOM	9300	CD2	LEU D 757	112.521	48.731	78.807	1.00	0.00	C
ATOM	9301	N	MET D 758	114.891	51.032	76.882	1.00	0.00	N
ATOM	9302	CA	MET D 758	116.240	50.927	77.359	1.00	0.00	C
ATOM	9303	C	MET D 758	116.710	52.162	78.079	1.00	0.00	C
ATOM	9304	O	MET D 758	117.611	52.076	78.915	1.00	0.00	O
ATOM	9305	CB	MET D 758	117.209	50.677	76.192	1.00	0.00	C
ATOM	9306	CG	MET D 758	118.646	50.384	76.613	1.00	0.00	C
ATOM	9307	SD	MET D 758	119.783	50.089	75.223	1.00	0.00	S
ATOM	9308	CE	MET D 758	121.244	49.820	76.266	1.00	0.00	C
ATOM	9309	N	ASP D 759	116.127	53.333	77.765	1.00	0.00	N
ATOM	9310	CA	ASP D 759	116.591	54.631	78.195	1.00	0.00	C
ATOM	9311	C	ASP D 759	117.049	54.662	79.624	1.00	0.00	C
ATOM	9312	O	ASP D 759	116.463	54.040	80.512	1.00	0.00	O
ATOM	9313	CB	ASP D 759	115.517	55.725	78.024	1.00	0.00	C
ATOM	9314	CG	ASP D 759	116.172	57.097	78.107	1.00	0.00	C
ATOM	9315	OD1	ASP D 759	117.430	57.162	78.067	1.00	0.00	O
ATOM	9316	OD2	ASP D 759	115.418	58.102	78.207	1.00	0.00	O
ATOM	9317	N	PHE D 760	118.165	55.393	79.852	1.00	0.00	N
ATOM	9318	CA	PHE D 760	118.774	55.562	81.140	1.00	0.00	C
ATOM	9319	C	PHE D 760	118.941	57.041	81.337	1.00	0.00	C
ATOM	9320	O	PHE D 760	118.977	57.801	80.371	1.00	0.00	O
ATOM	9321	CB	PHE D 760	120.158	54.890	81.224	1.00	0.00	C

ATOM	9322	CG	PHE D 760	120.636	54.932	82.634	1.00	0.00	C
ATOM	9323	CD1	PHE D 760	120.159	54.038	83.563	1.00	0.00	C
ATOM	9324	CD2	PHE D 760	121.576	55.856	83.029	1.00	0.00	C
ATOM	9325	CE1	PHE D 760	120.602	54.074	84.865	1.00	0.00	C
ATOM	9326	CE2	PHE D 760	122.025	55.898	84.325	1.00	0.00	C
ATOM	9327	CZ	PHE D 760	121.537	55.006	85.250	1.00	0.00	C
HETATM	9328	N	HIE D 761	119.027	57.498	82.605	1.00	0.00	N
HETATM	9329	CA	HIE D 761	119.136	58.904	82.878	1.00	0.00	C
HETATM	9330	C	HIE D 761	120.530	59.357	82.599	1.00	0.00	C
HETATM	9331	O	HIE D 761	121.469	58.565	82.647	1.00	0.00	O
HETATM	9332	CB	HIE D 761	118.809	59.285	84.333	1.00	0.00	C
HETATM	9333	CG	HIE D 761	118.774	60.770	84.547	1.00	0.00	C
HETATM	9334	CD2	HIE D 761	117.725	61.636	84.507	1.00	0.00	C
HETATM	9335	ND1	HIE D 761	119.881	61.540	84.826	1.00	0.00	N
HETATM	9336	CE1	HIE D 761	119.452	62.821	84.934	1.00	0.00	C
HETATM	9337	NE2	HIE D 761	118.149	62.929	84.750	1.00	0.00	N
ATOM	9338	N	SER D 762	120.690	60.648	82.244	1.00	0.00	N
ATOM	9339	CA	SER D 762	121.998	61.196	82.030	1.00	0.00	C
ATOM	9340	C	SER D 762	122.456	60.807	80.667	1.00	0.00	C
ATOM	9341	O	SER D 762	121.665	60.707	79.732	1.00	0.00	O
ATOM	9342	CB	SER D 762	123.071	60.745	83.040	1.00	0.00	C
ATOM	9343	OG	SER D 762	122.748	61.214	84.339	1.00	0.00	O
ATOM	9344	N	VAL D 763	123.780	60.604	80.533	1.00	0.00	N
ATOM	9345	CA	VAL D 763	124.357	60.260	79.270	1.00	0.00	C
ATOM	9346	C	VAL D 763	123.841	58.918	78.858	1.00	0.00	C
ATOM	9347	O	VAL D 763	123.705	57.990	79.655	1.00	0.00	O
ATOM	9348	CB	VAL D 763	125.856	60.184	79.298	1.00	0.00	C
ATOM	9349	CG1	VAL D 763	126.271	59.078	80.279	1.00	0.00	C
ATOM	9350	CG2	VAL D 763	126.361	59.961	77.862	1.00	0.00	C
ATOM	9351	N	PRO D 764	123.518	58.862	77.595	1.00	0.00	N
ATOM	9352	CA	PRO D 764	123.016	57.645	77.009	1.00	0.00	C
ATOM	9353	C	PRO D 764	124.104	56.675	76.691	1.00	0.00	C
ATOM	9354	O	PRO D 764	125.274	57.053	76.705	1.00	0.00	O
ATOM	9355	CB	PRO D 764	122.239	58.066	75.763	1.00	0.00	C
ATOM	9356	CG	PRO D 764	121.797	59.502	76.070	1.00	0.00	C
ATOM	9357	CD	PRO D 764	122.892	60.037	77.004	1.00	0.00	C
HETATM	9358	N	HIE D 765	123.726	55.416	76.397	1.00	0.00	N
HETATM	9359	CA	HIE D 765	124.672	54.396	76.057	1.00	0.00	C
HETATM	9360	C	HIE D 765	125.094	54.678	74.646	1.00	0.00	C
HETATM	9361	O	HIE D 765	124.447	55.447	73.936	1.00	0.00	O
HETATM	9362	CB	HIE D 765	124.079	52.976	76.151	1.00	0.00	C
HETATM	9363	CG	HIE D 765	125.115	51.908	76.362	1.00	0.00	C
HETATM	9364	CD2	HIE D 765	125.604	50.956	75.526	1.00	0.00	C
HETATM	9365	ND1	HIE D 765	125.770	51.727	77.560	1.00	0.00	N

HETATM	9366	CEI	HIE D 765	126.617	50.682	77.390	1.00	0.00	C
HETATM	9367	NE2	HIE D 765	126.551	50.179	76.170	1.00	0.00	N
ATOM	9368	N	PRO D 766	126.192	54.111	74.224	1.00	0.00	N
ATOM	9369	CA	PRO D 766	126.698	54.402	72.911	1.00	0.00	C
ATOM	9370	C	PRO D 766	125.793	54.034	71.777	1.00	0.00	C
ATOM	9371	O	PRO D 766	125.889	54.696	70.746	1.00	0.00	O
ATOM	9372	CB	PRO D 766	128.081	53.760	72.857	1.00	0.00	C
ATOM	9373	CG	PRO D 766	128.552	53.810	74.322	1.00	0.00	C
ATOM	9374	CD	PRO D 766	127.256	53.751	75.147	1.00	0.00	C
ATOM	9375	N	PRO D 767	124.967	53.033	71.876	1.00	0.00	N
ATOM	9376	CA	PRO D 767	124.105	52.748	70.763	1.00	0.00	C
ATOM	9377	C	PRO D 767	123.125	53.850	70.550	1.00	0.00	C
ATOM	9378	O	PRO D 767	122.723	54.079	69.409	1.00	0.00	O
ATOM	9379	CB	PRO D 767	123.493	51.383	71.060	1.00	0.00	C
ATOM	9380	CG	PRO D 767	124.586	50.682	71.890	1.00	0.00	C
ATOM	9381	CD	PRO D 767	125.328	51.829	72.600	1.00	0.00	C
ATOM	9382	N	GLU D 768	122.715	54.533	71.635	1.00	0.00	N
ATOM	9383	CA	GLU D 768	121.798	55.626	71.510	1.00	0.00	C
ATOM	9384	C	GLU D 768	122.493	56.708	70.758	1.00	0.00	C
ATOM	9385	O	GLU D 768	121.904	57.367	69.906	1.00	0.00	O
ATOM	9386	CB	GLU D 768	121.367	56.203	72.869	1.00	0.00	C
ATOM	9387	CG	GLU D 768	120.398	57.381	72.753	1.00	0.00	C
ATOM	9388	CD	GLU D 768	119.070	56.860	72.232	1.00	0.00	C
ATOM	9389	OE1	GLU D 768	119.093	56.066	71.252	1.00	0.00	O
ATOM	9390	OE2	GLU D 768	118.014	57.243	72.807	1.00	0.00	O
ATOM	9391	N	LEU D 769	123.790	56.907	71.057	1.00	0.00	N
ATOM	9392	CA	LEU D 769	124.549	57.930	70.400	1.00	0.00	C
ATOM	9393	C	LEU D 769	124.595	57.597	68.955	1.00	0.00	C
ATOM	9394	O	LEU D 769	124.493	58.475	68.099	1.00	0.00	O
ATOM	9395	CB	LEU D 769	125.996	58.034	70.902	1.00	0.00	C
ATOM	9396	CG	LEU D 769	126.072	58.586	72.330	1.00	0.00	C
ATOM	9397	CD1	LEU D 769	127.522	58.740	72.811	1.00	0.00	C
ATOM	9398	CD2	LEU D 769	125.256	59.884	72.430	1.00	0.00	C
ATOM	9399	N	VAL D 770	124.730	56.300	68.644	1.00	0.00	N
ATOM	9400	CA	VAL D 770	124.798	55.902	67.274	1.00	0.00	C
ATOM	9401	C	VAL D 770	123.525	56.323	66.625	1.00	0.00	C
ATOM	9402	O	VAL D 770	123.527	56.840	65.510	1.00	0.00	O
ATOM	9403	CB	VAL D 770	124.924	54.419	67.097	1.00	0.00	C
ATOM	9404	CG1	VAL D 770	124.904	54.108	65.591	1.00	0.00	C
ATOM	9405	CG2	VAL D 770	126.195	53.944	67.818	1.00	0.00	C
ATOM	9406	N	LEU D 771	122.393	56.146	67.327	1.00	0.00	N
ATOM	9407	CA	LEU D 771	121.118	56.480	66.765	1.00	0.00	C
ATOM	9408	C	LEU D 771	121.111	57.942	66.463	1.00	0.00	C
ATOM	9409	O	LEU D 771	120.559	58.369	65.450	1.00	0.00	O

ATOM	9410	CB	LEU	D	771	119.944	56.190	67.714	1.00	0.00	C
ATOM	9411	CG	LEU	D	771	119.785	54.691	68.027	1.00	0.00	C
ATOM	9412	CD1	LEU	D	771	118.545	54.429	68.899	1.00	0.00	C
ATOM	9413	CD2	LEU	D	771	119.790	53.848	66.740	1.00	0.00	C
ATOM	9414	N	TYR	D	772	121.735	58.754	67.336	1.00	0.00	N
ATOM	9415	CA	TYR	D	772	121.752	60.165	67.096	1.00	0.00	C
ATOM	9416	C	TYR	D	772	122.438	60.388	65.790	1.00	0.00	C
ATOM	9417	O	TYR	D	772	122.003	61.202	64.979	1.00	0.00	O
ATOM	9418	CB	TYR	D	772	122.509	60.961	68.172	1.00	0.00	C
ATOM	9419	CG	TYR	D	772	121.686	60.915	69.416	1.00	0.00	C
ATOM	9420	CD1	TYR	D	772	120.598	61.746	69.549	1.00	0.00	C
ATOM	9421	CD2	TYR	D	772	122.003	60.058	70.443	1.00	0.00	C
ATOM	9422	CE1	TYR	D	772	119.833	61.717	70.690	1.00	0.00	C
ATOM	9423	CE2	TYR	D	772	121.238	60.026	71.584	1.00	0.00	C
ATOM	9424	CZ	TYR	D	772	120.150	60.855	71.708	1.00	0.00	C
ATOM	9425	OH	TYR	D	772	119.364	60.827	72.879	1.00	0.00	O
ATOM	9426	N	SER	D	773	123.525	59.640	65.554	1.00	0.00	N
ATOM	9427	CA	SER	D	773	124.283	59.765	64.346	1.00	0.00	C
ATOM	9428	C	SER	D	773	123.384	59.477	63.182	1.00	0.00	C
ATOM	9429	O	SER	D	773	123.401	60.200	62.187	1.00	0.00	O
ATOM	9430	CB	SER	D	773	125.433	58.750	64.308	1.00	0.00	C
ATOM	9431	OG	SER	D	773	126.029	58.743	63.023	1.00	0.00	O
ATOM	9432	N	LEU	D	774	122.557	58.417	63.284	1.00	0.00	N
ATOM	9433	CA	LEU	D	774	121.679	58.067	62.204	1.00	0.00	C
ATOM	9434	C	LEU	D	774	120.708	59.180	61.980	1.00	0.00	C
ATOM	9435	O	LEU	D	774	120.359	59.489	60.842	1.00	0.00	O
ATOM	9436	CB	LEU	D	774	120.872	56.776	62.443	1.00	0.00	C
ATOM	9437	CG	LEU	D	774	121.688	55.476	62.287	1.00	0.00	C
ATOM	9438	CD1	LEU	D	774	122.132	55.272	60.829	1.00	0.00	C
ATOM	9439	CD2	LEU	D	774	122.866	55.412	63.268	1.00	0.00	C
ATOM	9440	N	VAL	D	775	120.242	59.823	63.061	1.00	0.00	N
ATOM	9441	CA	VAL	D	775	119.308	60.901	62.902	1.00	0.00	C
ATOM	9442	C	VAL	D	775	119.989	61.949	62.085	1.00	0.00	C
ATOM	9443	O	VAL	D	775	119.376	62.572	61.217	1.00	0.00	O
ATOM	9444	CB	VAL	D	775	118.928	61.519	64.215	1.00	0.00	C
ATOM	9445	CG1	VAL	D	775	118.039	62.741	63.944	1.00	0.00	C
ATOM	9446	CG2	VAL	D	775	118.255	60.442	65.086	1.00	0.00	C
ATOM	9447	N	PHE	D	776	121.290	62.157	62.345	1.00	0.00	N
ATOM	9448	CA	PHE	D	776	122.059	63.142	61.648	1.00	0.00	C
ATOM	9449	C	PHE	D	776	122.094	62.809	60.191	1.00	0.00	C
ATOM	9450	O	PHE	D	776	121.906	63.688	59.352	1.00	0.00	O
ATOM	9451	CB	PHE	D	776	123.519	63.202	62.131	1.00	0.00	C
ATOM	9452	CG	PHE	D	776	124.282	64.058	61.177	1.00	0.00	C
ATOM	9453	CD1	PHE	D	776	124.203	65.429	61.233	1.00	0.00	C

ATOM	9454	CD2 PHE D 776	125.088	63.478	60.223	1.00	0.00	C
ATOM	9455	CE1 PHE D 776	124.912	66.207	60.349	1.00	0.00	C
ATOM	9456	CE2 PHE D 776	125.800	64.250	59.333	1.00	0.00	C
ATOM	9457	CZ PHE D 776	125.711	65.619	59.396	1.00	0.00	C
ATOM	9458	N VAL D 777	122.323	61.531	59.840	1.00	0.00	N
ATOM	9459	CA VAL D 777	122.429	61.209	58.444	1.00	0.00	C
ATOM	9460	C VAL D 777	121.126	61.513	57.781	1.00	0.00	C
ATOM	9461	O VAL D 777	121.088	62.037	56.668	1.00	0.00	O
ATOM	9462	CB VAL D 777	122.789	59.777	58.162	1.00	0.00	C
ATOM	9463	CG1 VAL D 777	121.593	58.866	58.480	1.00	0.00	C
ATOM	9464	CG2 VAL D 777	123.260	59.681	56.702	1.00	0.00	C
ATOM	9465	N LEU D 778	120.003	61.205	58.454	1.00	0.00	N
ATOM	9466	CA LEU D 778	118.714	61.440	57.875	1.00	0.00	C
ATOM	9467	C LEU D 778	118.560	62.912	57.677	1.00	0.00	C
ATOM	9468	O LEU D 778	118.020	63.364	56.668	1.00	0.00	O
ATOM	9469	CB LEU D 778	117.573	60.970	58.791	1.00	0.00	C
ATOM	9470	CG LEU D 778	117.635	59.466	59.117	1.00	0.00	C
ATOM	9471	CD1 LEU D 778	116.456	59.031	59.997	1.00	0.00	C
ATOM	9472	CD2 LEU D 778	117.780	58.623	57.840	1.00	0.00	C
ATOM	9473	N PHE D 779	119.043	63.705	58.649	1.00	0.00	N
ATOM	9474	CA PHE D 779	118.907	65.130	58.595	1.00	0.00	C
ATOM	9475	C PHE D 779	119.615	65.660	57.391	1.00	0.00	C
ATOM	9476	O PHE D 779	119.056	66.455	56.636	1.00	0.00	O
ATOM	9477	CB PHE D 779	119.510	65.831	59.821	1.00	0.00	C
ATOM	9478	CG PHE D 779	119.307	67.291	59.619	1.00	0.00	C
ATOM	9479	CD1 PHE D 779	118.104	67.878	59.936	1.00	0.00	C
ATOM	9480	CD2 PHE D 779	120.323	68.069	59.116	1.00	0.00	C
ATOM	9481	CE1 PHE D 779	117.919	69.224	59.746	1.00	0.00	C
ATOM	9482	CE2 PHE D 779	120.143	69.417	58.925	1.00	0.00	C
ATOM	9483	CZ PHE D 779	118.939	69.997	59.242	1.00	0.00	C
ATOM	9484	N CYS D 780	120.869	65.228	57.165	1.00	0.00	N
ATOM	9485	CA CYS D 780	121.606	65.774	56.061	1.00	0.00	C
ATOM	9486	C CYS D 780	120.935	65.397	54.776	1.00	0.00	C
ATOM	9487	O CYS D 780	120.855	66.199	53.851	1.00	0.00	O
ATOM	9488	CB CYS D 780	123.079	65.319	56.002	1.00	0.00	C
ATOM	9489	SG CYS D 780	123.297	63.551	55.651	1.00	0.00	S
ATOM	9490	N ASP D 781	120.425	64.157	54.680	1.00	0.00	N
ATOM	9491	CA ASP D 781	119.807	63.736	53.455	1.00	0.00	C
ATOM	9492	C ASP D 781	118.605	64.581	53.192	1.00	0.00	C
ATOM	9493	O ASP D 781	118.412	65.075	52.079	1.00	0.00	O
ATOM	9494	CB ASP D 781	119.325	62.274	53.512	1.00	0.00	C
ATOM	9495	CG ASP D 781	118.774	61.876	52.147	1.00	0.00	C
ATOM	9496	OD1 ASP D 781	118.859	62.710	51.202	1.00	0.00	O
ATOM	9497	OD2 ASP D 781	118.256	60.735	52.031	1.00	0.00	O

HETATM 9498	N	GUI D 782	117.761	64.774	54.241	1.00	0.00	N
HETATM 9499	CA	GUI D 782	116.534	65.524	53.993	1.00	0.00	C
HETATM 9500	C	GUI D 782	116.842	66.958	53.629	1.00	0.00	C
HETATM 9501	O	GUI D 782	116.155	67.505	52.808	1.00	0.00	O
HETATM 9502	CB	GUI D 782	115.618	65.466	55.248	1.00	0.00	C
HETATM 9503	CG	GUI D 782	114.967	64.077	55.549	1.00	0.00	C
HETATM 9504	CD	GUI D 782	114.674	63.151	54.384	1.00	0.00	C
HETATM 9505	OE1	GUI D 782	115.332	62.107	54.214	1.00	0.00	O
HETATM 9506	OE2	GUI D 782	113.740	63.487	53.627	1.00	0.00	O1-
ATOM 9507	N	VAL D 783	117.865	67.530	54.273	1.00	0.00	N
ATOM 9508	CA	VAL D 783	118.173	68.892	53.952	1.00	0.00	C
ATOM 9509	C	VAL D 783	118.603	68.969	52.523	1.00	0.00	C
ATOM 9510	O	VAL D 783	118.292	69.937	51.828	1.00	0.00	O
ATOM 9511	CB	VAL D 783	119.190	69.534	54.858	1.00	0.00	C
ATOM 9512	CG1	VAL D 783	118.542	69.666	56.243	1.00	0.00	C
ATOM 9513	CG2	VAL D 783	120.483	68.707	54.885	1.00	0.00	C
ATOM 9514	N	ARG D 784	119.331	67.949	52.033	1.00	0.00	N
ATOM 9515	CA	ARG D 784	119.753	67.977	50.664	1.00	0.00	C
ATOM 9516	C	ARG D 784	118.540	67.986	49.788	1.00	0.00	C
ATOM 9517	O	ARG D 784	118.475	68.730	48.811	1.00	0.00	O
ATOM 9518	CB	ARG D 784	120.601	66.766	50.249	1.00	0.00	C
ATOM 9519	CG	ARG D 784	120.941	66.781	48.760	1.00	0.00	C
ATOM 9520	CD	ARG D 784	121.810	67.970	48.348	1.00	0.00	C
ATOM 9521	NE	ARG D 784	121.832	68.019	46.858	1.00	0.00	N
ATOM 9522	CZ	ARG D 784	122.521	69.008	46.218	1.00	0.00	C
ATOM 9523	NH1	ARG D 784	123.237	69.914	46.944	1.00	0.00	N
ATOM 9524	NH2	ARG D 784	122.494	69.089	44.858	1.00	0.00	N
HETATM 9525	N	GNI D 785	117.537	67.161	50.134	1.00	0.00	N
HETATM 9526	CA	GNI D 785	116.326	67.048	49.369	1.00	0.00	C
HETATM 9527	C	GNI D 785	115.637	68.372	49.419	1.00	0.00	C
HETATM 9528	O	GNI D 785	115.059	68.831	48.435	1.00	0.00	O
HETATM 9529	CB	GNI D 785	115.371	65.995	49.964	1.00	0.00	C
HETATM 9530	CG	GNI D 785	114.042	65.853	49.224	1.00	0.00	C
HETATM 9531	CD	GNI D 785	113.398	64.554	49.691	1.00	0.00	C
HETATM 9532	NE2	GNI D 785	113.705	63.434	48.984	1.00	0.00	N
HETATM 9533	OE1	GNI D 785	112.640	64.535	50.661	1.00	0.00	O
ATOM 9534	N	TRP D 786	115.708	69.036	50.582	1.00	0.00	N
ATOM 9535	CA	TRP D 786	115.079	70.307	50.778	1.00	0.00	C
ATOM 9536	C	TRP D 786	115.678	71.241	49.778	1.00	0.00	C
ATOM 9537	O	TRP D 786	114.980	72.023	49.137	1.00	0.00	O
ATOM 9538	CB	TRP D 786	115.395	70.869	52.175	1.00	0.00	C
ATOM 9539	CG	TRP D 786	114.720	72.171	52.543	1.00	0.00	C
ATOM 9540	CD1	TRP D 786	115.079	73.453	52.242	1.00	0.00	C
ATOM 9541	CD2	TRP D 786	113.562	72.261	53.390	1.00	0.00	C

ATOM	9542	CE2 TRP D 786	113.279	73.614	53.558	1.00	0.00	C
ATOM	9543	CE3 TRP D 786	112.810	71.295	53.993	1.00	0.00	C
ATOM	9544	NE1 TRP D 786	114.213	74.336	52.846	1.00	0.00	N
ATOM	9545	CZ2 TRP D 786	112.234	74.024	54.335	1.00	0.00	C
ATOM	9546	CZ3 TRP D 786	111.744	71.709	54.760	1.00	0.00	C
ATOM	9547	CH2 TRP D 786	111.463	73.048	54.928	1.00	0.00	C
ATOM	9548	N TYR D 787	117.012	71.168	49.619	1.00	0.00	N
ATOM	9549	CA TYR D 787	117.719	72.037	48.729	1.00	0.00	C
ATOM	9550	C TYR D 787	117.301	71.805	47.312	1.00	0.00	C
ATOM	9551	O TYR D 787	117.123	72.760	46.556	1.00	0.00	O
ATOM	9552	CB TYR D 787	119.245	71.849	48.785	1.00	0.00	C
ATOM	9553	CG TYR D 787	119.826	72.709	47.715	1.00	0.00	C
ATOM	9554	CD1 TYR D 787	119.943	74.069	47.891	1.00	0.00	C
ATOM	9555	CD2 TYR D 787	120.260	72.152	46.534	1.00	0.00	C
ATOM	9556	CE1 TYR D 787	120.480	74.860	46.899	1.00	0.00	C
ATOM	9557	CE2 TYR D 787	120.798	72.938	45.539	1.00	0.00	C
ATOM	9558	CZ TYR D 787	120.908	74.294	45.722	1.00	0.00	C
ATOM	9559	OH TYR D 787	121.458	75.103	44.706	1.00	0.00	O
ATOM	9560	N VAL D 788	117.121	70.536	46.904	1.00	0.00	N
ATOM	9561	CA VAL D 788	116.884	70.277	45.514	1.00	0.00	C
ATOM	9562	C VAL D 788	115.646	70.977	45.037	1.00	0.00	C
ATOM	9563	O VAL D 788	115.681	71.628	43.995	1.00	0.00	O
ATOM	9564	CB VAL D 788	116.758	68.813	45.175	1.00	0.00	C
ATOM	9565	CG1 VAL D 788	118.055	68.107	45.603	1.00	0.00	C
ATOM	9566	CG2 VAL D 788	115.477	68.233	45.797	1.00	0.00	C
ATOM	9567	N ASN D 789	114.516	70.891	45.769	1.00	0.00	N
ATOM	9568	CA ASN D 789	113.338	71.535	45.248	1.00	0.00	C
ATOM	9569	C ASN D 789	112.919	72.609	46.196	1.00	0.00	C
ATOM	9570	O ASN D 789	112.660	72.336	47.367	1.00	0.00	O
ATOM	9571	CB ASN D 789	112.143	70.579	45.085	1.00	0.00	C
ATOM	9572	CG ASN D 789	112.474	69.600	43.967	1.00	0.00	C
ATOM	9573	ND2 ASN D 789	112.249	68.284	44.226	1.00	0.00	N
ATOM	9574	OD1 ASN D 789	112.927	69.995	42.895	1.00	0.00	O
ATOM	9575	N GLY D 790	112.893	73.876	45.732	1.00	0.00	N
ATOM	9576	CA GLY D 790	112.471	74.907	46.632	1.00	0.00	C
ATOM	9577	C GLY D 790	111.000	74.817	46.923	1.00	0.00	C
ATOM	9578	O GLY D 790	110.607	74.657	48.076	1.00	0.00	O
ATOM	9579	N VAL D 791	110.152	74.934	45.877	1.00	0.00	N
ATOM	9580	CA VAL D 791	108.717	74.917	46.017	1.00	0.00	C
ATOM	9581	C VAL D 791	108.173	73.535	46.175	1.00	0.00	C
ATOM	9582	O VAL D 791	107.332	73.274	47.034	1.00	0.00	O
ATOM	9583	CB VAL D 791	108.011	75.517	44.836	1.00	0.00	C
ATOM	9584	CG1 VAL D 791	106.495	75.336	45.033	1.00	0.00	C
ATOM	9585	CG2 VAL D 791	108.454	76.984	44.696	1.00	0.00	C

ATOM	9586	N	ASN D 792	108.673	72.609	45.339	1.00	0.00	N
ATOM	9587	CA	ASN D 792	108.127	71.291	45.240	1.00	0.00	C
ATOM	9588	C	ASN D 792	108.269	70.593	46.550	1.00	0.00	C
ATOM	9589	O	ASN D 792	107.397	69.831	46.957	1.00	0.00	O
ATOM	9590	CB	ASN D 792	108.820	70.433	44.167	1.00	0.00	C
ATOM	9591	CG	ASN D 792	107.923	69.239	43.876	1.00	0.00	C
ATOM	9592	ND2	ASN D 792	107.610	69.025	42.570	1.00	0.00	N
ATOM	9593	OD1	ASN D 792	107.499	68.523	44.782	1.00	0.00	O
ATOM	9594	N	TYR D 793	109.379	70.829	47.252	1.00	0.00	N
ATOM	9595	CA	TYR D 793	109.579	70.152	48.497	1.00	0.00	C
ATOM	9596	C	TYR D 793	108.481	70.575	49.429	1.00	0.00	C
ATOM	9597	O	TYR D 793	107.853	69.749	50.087	1.00	0.00	O
ATOM	9598	CB	TYR D 793	110.918	70.542	49.142	1.00	0.00	C
ATOM	9599	CG	TYR D 793	111.160	69.679	50.333	1.00	0.00	C
ATOM	9600	CD1	TYR D 793	111.723	68.434	50.181	1.00	0.00	C
ATOM	9601	CD2	TYR D 793	110.832	70.110	51.598	1.00	0.00	C
ATOM	9602	CE1	TYR D 793	111.958	67.626	51.269	1.00	0.00	C
ATOM	9603	CE2	TYR D 793	111.066	69.308	52.691	1.00	0.00	C
ATOM	9604	CZ	TYR D 793	111.630	68.064	52.529	1.00	0.00	C
ATOM	9605	OH	TYR D 793	111.876	67.240	53.646	1.00	0.00	O
ATOM	9606	N	PHE D 794	108.195	71.884	49.480	1.00	0.00	N
ATOM	9607	CA	PHE D 794	107.194	72.406	50.365	1.00	0.00	C
ATOM	9608	C	PHE D 794	105.838	71.928	49.968	1.00	0.00	C
ATOM	9609	O	PHE D 794	104.977	71.747	50.826	1.00	0.00	O
ATOM	9610	CB	PHE D 794	107.109	73.942	50.394	1.00	0.00	C
ATOM	9611	CG	PHE D 794	108.299	74.466	51.113	1.00	0.00	C
ATOM	9612	CD1	PHE D 794	108.404	74.330	52.478	1.00	0.00	C
ATOM	9613	CD2	PHE D 794	109.293	75.117	50.428	1.00	0.00	C
ATOM	9614	CE1	PHE D 794	109.502	74.822	53.142	1.00	0.00	C
ATOM	9615	CE2	PHE D 794	110.392	75.616	51.084	1.00	0.00	C
ATOM	9616	CZ	PHE D 794	110.498	75.463	52.446	1.00	0.00	C
ATOM	9617	N	THR D 795	105.594	71.731	48.661	1.00	0.00	N
ATOM	9618	CA	THR D 795	104.259	71.425	48.245	1.00	0.00	C
ATOM	9619	C	THR D 795	103.749	70.191	48.933	1.00	0.00	C
ATOM	9620	O	THR D 795	102.639	70.201	49.460	1.00	0.00	O
ATOM	9621	CB	THR D 795	104.114	71.253	46.758	1.00	0.00	C
ATOM	9622	CG2	THR D 795	104.755	69.943	46.289	1.00	0.00	C
ATOM	9623	OG1	THR D 795	102.743	71.232	46.425	1.00	0.00	O
ATOM	9624	N	ASP D 796	104.534	69.096	48.971	1.00	0.00	N
ATOM	9625	CA	ASP D 796	104.065	67.906	49.627	1.00	0.00	C
ATOM	9626	C	ASP D 796	104.093	68.178	51.097	1.00	0.00	C
ATOM	9627	O	ASP D 796	104.999	68.840	51.605	1.00	0.00	O
ATOM	9628	CB	ASP D 796	104.963	66.685	49.331	1.00	0.00	C
ATOM	9629	CG	ASP D 796	104.267	65.389	49.743	1.00	0.00	C

ATOM	9630	OD1 ASP D 796	103.574	65.376	50.793	1.00	0.00	O
ATOM	9631	OD2 ASP D 796	104.425	64.385	48.996	1.00	0.00	O
ATOM	9632	N LEU D 797	103.054	67.724	51.815	1.00	0.00	N
ATOM	9633	CA LEU D 797	102.970	67.887	53.237	1.00	0.00	C
ATOM	9634	C LEU D 797	103.940	66.980	53.929	1.00	0.00	C
ATOM	9635	O LEU D 797	104.582	67.363	54.904	1.00	0.00	O
ATOM	9636	CB LEU D 797	101.566	67.540	53.761	1.00	0.00	C
ATOM	9637	CG LEU D 797	100.466	68.456	53.194	1.00	0.00	C
ATOM	9638	CD1 LEU D 797	99.082	68.081	53.739	1.00	0.00	C
ATOM	9639	CD2 LEU D 797	100.810	69.937	53.416	1.00	0.00	C
ATOM	9640	N TRP D 798	104.072	65.739	53.439	1.00	0.00	N
ATOM	9641	CA TRP D 798	104.850	64.751	54.130	1.00	0.00	C
ATOM	9642	C TRP D 798	106.290	65.123	54.189	1.00	0.00	C
ATOM	9643	O TRP D 798	106.918	64.994	55.240	1.00	0.00	O
ATOM	9644	CB TRP D 798	104.704	63.356	53.500	1.00	0.00	C
ATOM	9645	CG TRP D 798	103.295	62.831	53.644	1.00	0.00	C
ATOM	9646	CD1 TRP D 798	102.276	62.807	52.736	1.00	0.00	C
ATOM	9647	CD2 TRP D 798	102.768	62.281	54.860	1.00	0.00	C
ATOM	9648	CE2 TRP D 798	101.435	61.949	54.621	1.00	0.00	C
ATOM	9649	CE3 TRP D 798	103.348	62.073	56.080	1.00	0.00	C
ATOM	9650	NE1 TRP D 798	101.145	62.276	53.313	1.00	0.00	N
ATOM	9651	CZ2 TRP D 798	100.656	61.404	55.604	1.00	0.00	C
ATOM	9652	CZ3 TRP D 798	102.562	61.518	57.066	1.00	0.00	C
ATOM	9653	CH2 TRP D 798	101.241	61.190	56.831	1.00	0.00	C
HETATM	9654	N ANI D 799	106.864	65.610	53.040	1.00	0.00	N
HETATM	9655	CA ANI D 799	108.296	65.847	53.202	1.00	0.00	C
HETATM	9656	C ANI D 799	108.550	67.009	54.133	1.00	0.00	C
HETATM	9657	O ANI D 799	109.580	66.980	54.795	1.00	0.00	O
HETATM	9658	CB ANI D 799	108.941	66.104	51.811	1.00	0.00	C
HETATM	9659	CG ANI D 799	109.161	64.884	50.910	1.00	0.00	C
HETATM	9660	ND2 ANI D 799	108.252	64.585	50.021	1.00	0.00	N
HETATM	9661	OD1 ANI D 799	110.166	64.195	50.982	1.00	0.00	O
ATOM	9662	N VAL D 800	107.630	67.975	54.293	1.00	0.00	N
ATOM	9663	CA VAL D 800	107.867	68.964	55.308	1.00	0.00	C
ATOM	9664	C VAL D 800	107.688	68.329	56.658	1.00	0.00	C
ATOM	9665	O VAL D 800	108.370	68.681	57.618	1.00	0.00	O
ATOM	9666	CB VAL D 800	107.008	70.199	55.217	1.00	0.00	C
ATOM	9667	CG1 VAL D 800	107.269	70.869	53.858	1.00	0.00	C
ATOM	9668	CG2 VAL D 800	105.538	69.852	55.489	1.00	0.00	C
ATOM	9669	N MET D 801	106.756	67.361	56.770	1.00	0.00	N
ATOM	9670	CA MET D 801	106.471	66.732	58.029	1.00	0.00	C
ATOM	9671	C MET D 801	107.692	66.035	58.538	1.00	0.00	C
ATOM	9672	O MET D 801	107.978	66.075	59.734	1.00	0.00	O
ATOM	9673	CB MET D 801	105.354	65.677	57.945	1.00	0.00	C

ATOM 9674 CG MET D 801	105.199	64.866	59.236	1.00	0.00	C
ATOM 9675 SD MET D 801	104.571	65.795	60.664	1.00	0.00	S
ATOM 9676 CE MET D 801	102.846	65.778	60.105	1.00	0.00	C
HETATM 9677 N AP1 D 802	108.444	65.373	57.647	1.00	0.00	N
HETATM 9678 CA AP1 D 802	109.599	64.637	58.071	1.00	0.00	C
HETATM 9679 C AP1 D 802	110.595	65.582	58.674	1.00	0.00	C
HETATM 9680 O AP1 D 802	111.212	65.276	59.694	1.00	0.00	O
HETATM 9681 CB AP1 D 802	110.292	63.909	56.910	1.00	0.00	C
HETATM 9682 CG AP1 D 802	109.277	63.669	55.800	1.00	0.00	C
HETATM 9683 OD1 AP1 D 802	108.107	63.323	56.117	1.00	0.00	O1-
HETATM 9684 OD2 AP1 D 802	109.661	63.824	54.612	1.00	0.00	O
ATOM 9685 N THR D 803	110.784	66.764	58.058	1.00	0.00	N
ATOM 9686 CA THR D 803	111.745	67.699	58.570	1.00	0.00	C
ATOM 9687 C THR D 803	111.297	68.163	59.918	1.00	0.00	C
ATOM 9688 O THR D 803	112.101	68.307	60.834	1.00	0.00	O
ATOM 9689 CB THR D 803	111.930	68.919	57.707	1.00	0.00	C
ATOM 9690 CG2 THR D 803	112.311	68.472	56.288	1.00	0.00	C
ATOM 9691 OG1 THR D 803	110.738	69.690	57.674	1.00	0.00	O
ATOM 9692 N LEU D 804	109.984	68.407	60.070	1.00	0.00	N
ATOM 9693 CA LEU D 804	109.473	68.915	61.311	1.00	0.00	C
ATOM 9694 C LEU D 804	109.748	67.890	62.367	1.00	0.00	C
ATOM 9695 O LEU D 804	110.189	68.228	63.464	1.00	0.00	O
ATOM 9696 CB LEU D 804	107.951	69.166	61.244	1.00	0.00	C
ATOM 9697 CG LEU D 804	107.294	69.896	62.442	1.00	0.00	C
ATOM 9698 CD1 LEU D 804	105.783	70.059	62.201	1.00	0.00	C
ATOM 9699 CD2 LEU D 804	107.574	69.237	63.803	1.00	0.00	C
ATOM 9700 N GLY D 805	109.502	66.604	62.059	1.00	0.00	N
ATOM 9701 CA GLY D 805	109.681	65.574	63.039	1.00	0.00	C
ATOM 9702 C GLY D 805	111.121	65.490	63.436	1.00	0.00	C
ATOM 9703 O GLY D 805	111.441	65.330	64.614	1.00	0.00	O
ATOM 9704 N LEU D 806	112.033	65.583	62.452	1.00	0.00	N
ATOM 9705 CA LEU D 806	113.440	65.459	62.712	1.00	0.00	C
ATOM 9706 C LEU D 806	113.866	66.602	63.572	1.00	0.00	C
ATOM 9707 O LEU D 806	114.664	66.436	64.491	1.00	0.00	O
ATOM 9708 CB LEU D 806	114.276	65.505	61.415	1.00	0.00	C
ATOM 9709 CG LEU D 806	115.778	65.183	61.572	1.00	0.00	C
ATOM 9710 CD1 LEU D 806	116.537	66.235	62.397	1.00	0.00	C
ATOM 9711 CD2 LEU D 806	115.978	63.749	62.089	1.00	0.00	C
ATOM 9712 N PHE D 807	113.333	67.801	63.286	1.00	0.00	N
ATOM 9713 CA PHE D 807	113.708	68.983	64.008	1.00	0.00	C
ATOM 9714 C PHE D 807	113.288	68.832	65.438	1.00	0.00	C
ATOM 9715 O PHE D 807	114.048	69.148	66.352	1.00	0.00	O
ATOM 9716 CB PHE D 807	113.031	70.249	63.461	1.00	0.00	C
ATOM 9717 CG PHE D 807	113.499	71.398	64.285	1.00	0.00	C

ATOM	9718	CD1 PHE D 807	114.726	71.971	64.045	1.00	0.00	C
ATOM	9719	CD2 PHE D 807	112.710	71.902	65.293	1.00	0.00	C
ATOM	9720	CE1 PHE D 807	115.161	73.032	64.805	1.00	0.00	C
ATOM	9721	CE2 PHE D 807	113.140	72.963	66.054	1.00	0.00	C
ATOM	9722	CZ PHE D 807	114.367	73.527	65.811	1.00	0.00	C
ATOM	9723	N TYR D 808	112.061	68.330	65.661	1.00	0.00	N
ATOM	9724	CA TYR D 808	111.526	68.198	66.985	1.00	0.00	C
ATOM	9725	C TYR D 808	112.379	67.227	67.739	1.00	0.00	C
ATOM	9726	O TYR D 808	112.653	67.411	68.923	1.00	0.00	O
ATOM	9727	CB TYR D 808	110.069	67.699	66.979	1.00	0.00	C
ATOM	9728	CG TYR D 808	109.552	67.737	68.379	1.00	0.00	C
ATOM	9729	CD1 TYR D 808	109.324	68.942	69.001	1.00	0.00	C
ATOM	9730	CD2 TYR D 808	109.265	66.574	69.055	1.00	0.00	C
ATOM	9731	CE1 TYR D 808	108.843	68.991	70.288	1.00	0.00	C
ATOM	9732	CE2 TYR D 808	108.783	66.616	70.342	1.00	0.00	C
ATOM	9733	CZ TYR D 808	108.572	67.825	70.961	1.00	0.00	C
ATOM	9734	OH TYR D 808	108.078	67.865	72.281	1.00	0.00	O
ATOM	9735	N PHE D 809	112.821	66.156	67.057	1.00	0.00	N
ATOM	9736	CA PHE D 809	113.644	65.146	67.658	1.00	0.00	C
ATOM	9737	C PHE D 809	114.932	65.783	68.071	1.00	0.00	C
ATOM	9738	O PHE D 809	115.462	65.502	69.147	1.00	0.00	O
ATOM	9739	CB PHE D 809	113.965	64.017	66.664	1.00	0.00	C
ATOM	9740	CG PHE D 809	114.771	62.978	67.360	1.00	0.00	C
ATOM	9741	CD1 PHE D 809	114.151	62.029	68.133	1.00	0.00	C
ATOM	9742	CD2 PHE D 809	116.138	62.944	67.229	1.00	0.00	C
ATOM	9743	CE1 PHE D 809	114.887	61.062	68.773	1.00	0.00	C
ATOM	9744	CE2 PHE D 809	116.880	61.978	67.868	1.00	0.00	C
ATOM	9745	CZ PHE D 809	116.255	61.034	68.645	1.00	0.00	C
ATOM	9746	N ILE D 810	115.466	66.678	67.221	1.00	0.00	N
ATOM	9747	CA ILE D 810	116.709	67.337	67.498	1.00	0.00	C
ATOM	9748	C ILE D 810	116.520	68.108	68.761	1.00	0.00	C
ATOM	9749	O ILE D 810	117.377	68.101	69.642	1.00	0.00	O
ATOM	9750	CB ILE D 810	117.066	68.354	66.448	1.00	0.00	C
ATOM	9751	CG1 ILE D 810	117.178	67.720	65.053	1.00	0.00	C
ATOM	9752	CG2 ILE D 810	118.348	69.063	66.916	1.00	0.00	C
ATOM	9753	CD1 ILE D 810	118.312	66.710	64.905	1.00	0.00	C
ATOM	9754	N ALA D 811	115.371	68.797	68.877	1.00	0.00	N
ATOM	9755	CA ALA D 811	115.102	69.608	70.027	1.00	0.00	C
ATOM	9756	C ALA D 811	115.083	68.720	71.227	1.00	0.00	C
ATOM	9757	O ALA D 811	115.633	69.060	72.274	1.00	0.00	O
ATOM	9758	CB ALA D 811	113.737	70.309	69.951	1.00	0.00	C
ATOM	9759	N GLY D 812	114.470	67.533	71.107	1.00	0.00	N
ATOM	9760	CA GLY D 812	114.375	66.661	72.238	1.00	0.00	C
ATOM	9761	C GLY D 812	115.755	66.297	72.675	1.00	0.00	C

ATOM	9762	O	GLY D 812	116.023	66.189	73.871	1.00	0.00	O
ATOM	9763	N	ILE D 813	116.664	66.077	71.710	1.00	0.00	N
ATOM	9764	CA	ILE D 813	118.002	65.680	72.032	1.00	0.00	C
ATOM	9765	C	ILE D 813	118.672	66.774	72.800	1.00	0.00	C
ATOM	9766	O	ILE D 813	119.333	66.517	73.805	1.00	0.00	O
ATOM	9767	CB	ILE D 813	118.832	65.389	70.819	1.00	0.00	C
ATOM	9768	CG1	ILE D 813	118.216	64.228	70.018	1.00	0.00	C
ATOM	9769	CG2	ILE D 813	120.276	65.119	71.279	1.00	0.00	C
ATOM	9770	CD1	ILE D 813	118.830	64.050	68.631	1.00	0.00	C
ATOM	9771	N	VAL D 814	118.518	68.034	72.351	1.00	0.00	N
ATOM	9772	CA	VAL D 814	119.185	69.126	73.004	1.00	0.00	C
ATOM	9773	C	VAL D 814	118.649	69.285	74.396	1.00	0.00	C
ATOM	9774	O	VAL D 814	119.401	69.532	75.337	1.00	0.00	O
ATOM	9775	CB	VAL D 814	119.042	70.432	72.275	1.00	0.00	C
ATOM	9776	CG1	VAL D 814	117.605	70.956	72.411	1.00	0.00	C
ATOM	9777	CG2	VAL D 814	120.105	71.397	72.816	1.00	0.00	C
ATOM	9778	N	PHE D 815	117.323	69.132	74.552	1.00	0.00	N
ATOM	9779	CA	PHE D 815	116.617	69.282	75.796	1.00	0.00	C
ATOM	9780	C	PHE D 815	116.970	68.196	76.763	1.00	0.00	C
ATOM	9781	O	PHE D 815	116.892	68.408	77.971	1.00	0.00	O
ATOM	9782	CB	PHE D 815	115.082	69.284	75.653	1.00	0.00	C
ATOM	9783	CG	PHE D 815	114.653	70.628	75.177	1.00	0.00	C
ATOM	9784	CD1	PHE D 815	114.573	71.678	76.066	1.00	0.00	C
ATOM	9785	CD2	PHE D 815	114.305	70.849	73.865	1.00	0.00	C
ATOM	9786	CE1	PHE D 815	114.173	72.925	75.646	1.00	0.00	C
ATOM	9787	CE2	PHE D 815	113.905	72.092	73.436	1.00	0.00	C
ATOM	9788	CZ	PHE D 815	113.840	73.134	74.330	1.00	0.00	C
ATOM	9789	N	ARG D 816	117.331	66.994	76.284	1.00	0.00	N
ATOM	9790	CA	ARG D 816	117.534	65.920	77.218	1.00	0.00	C
ATOM	9791	C	ARG D 816	118.593	66.270	78.219	1.00	0.00	C
ATOM	9792	O	ARG D 816	118.423	66.019	79.408	1.00	0.00	O
ATOM	9793	CB	ARG D 816	117.966	64.586	76.588	1.00	0.00	C
ATOM	9794	CG	ARG D 816	118.124	63.503	77.661	1.00	0.00	C
ATOM	9795	CD	ARG D 816	118.704	62.178	77.163	1.00	0.00	C
ATOM	9796	NE	ARG D 816	117.737	61.597	76.193	1.00	0.00	N
ATOM	9797	CZ	ARG D 816	117.712	60.245	76.007	1.00	0.00	C
ATOM	9798	NH1	ARG D 816	118.514	59.442	76.764	1.00	0.00	N
ATOM	9799	NH2	ARG D 816	116.889	59.698	75.066	1.00	0.00	N
ATOM	9800	N	LEU D 817	119.710	66.867	77.765	1.00	0.00	N
ATOM	9801	CA	LEU D 817	120.821	67.196	78.618	1.00	0.00	C
ATOM	9802	C	LEU D 817	120.385	68.237	79.610	1.00	0.00	C
ATOM	9803	O	LEU D 817	120.810	68.215	80.766	1.00	0.00	O
ATOM	9804	CB	LEU D 817	122.022	67.729	77.800	1.00	0.00	C
ATOM	9805	CG	LEU D 817	123.359	67.946	78.550	1.00	0.00	C

ATOM	9806	CD1 LEU D 817	124.446	68.413	77.568	1.00	0.00	C
ATOM	9807	CD2 LEU D 817	123.247	68.915	79.737	1.00	0.00	C
HETATM	9808	N HIE D 818	119.487	69.150	79.197	1.00	0.00	N
HETATM	9809	CA HIE D 818	119.125	70.294	79.993	1.00	0.00	C
HETATM	9810	C HIE D 818	118.626	69.890	81.350	1.00	0.00	C
HETATM	9811	O HIE D 818	119.061	70.459	82.354	1.00	0.00	O
HETATM	9812	CB HIE D 818	118.032	71.152	79.339	1.00	0.00	C
HETATM	9813	CG HIE D 818	117.784	72.425	80.088	1.00	0.00	C
HETATM	9814	CD2 HIE D 818	116.873	72.707	81.058	1.00	0.00	C
HETATM	9815	ND1 HIE D 818	118.508	73.584	79.904	1.00	0.00	N
HETATM	9816	CE1 HIE D 818	118.002	74.501	80.765	1.00	0.00	C
HETATM	9817	NE2 HIE D 818	117.010	74.016	81.488	1.00	0.00	N
ATOM	9818	N SER D 819	117.750	68.869	81.437	1.00	0.00	N
ATOM	9819	CA SER D 819	117.224	68.435	82.702	1.00	0.00	C
ATOM	9820	C SER D 819	116.670	69.576	83.507	1.00	0.00	C
ATOM	9821	O SER D 819	117.378	70.184	84.308	1.00	0.00	O
ATOM	9822	CB SER D 819	118.277	67.710	83.553	1.00	0.00	C
ATOM	9823	OG SER D 819	117.712	67.302	84.788	1.00	0.00	O
ATOM	9824	N SER D 820	115.385	69.927	83.274	1.00	0.00	N
ATOM	9825	CA SER D 820	114.775	70.988	84.029	1.00	0.00	C
ATOM	9826	C SER D 820	113.318	70.673	84.203	1.00	0.00	C
ATOM	9827	O SER D 820	112.829	69.647	83.738	1.00	0.00	O
ATOM	9828	CB SER D 820	114.888	72.354	83.328	1.00	0.00	C
ATOM	9829	OG SER D 820	114.320	73.382	84.128	1.00	0.00	O
ATOM	9830	N ASN D 821	112.588	71.538	84.941	1.00	0.00	N
ATOM	9831	CA ASN D 821	111.180	71.337	85.109	1.00	0.00	C
ATOM	9832	C ASN D 821	110.495	71.858	83.891	1.00	0.00	C
ATOM	9833	O ASN D 821	111.021	72.715	83.182	1.00	0.00	O
ATOM	9834	CB ASN D 821	110.577	72.040	86.334	1.00	0.00	C
ATOM	9835	CG ASN D 821	110.931	71.208	87.555	1.00	0.00	C
ATOM	9836	ND2 ASN D 821	111.421	71.880	88.632	1.00	0.00	N
ATOM	9837	OD1 ASN D 821	110.773	69.989	87.554	1.00	0.00	O
ATOM	9838	N LYS D 822	109.302	71.306	83.608	1.00	0.00	N
ATOM	9839	CA LYS D 822	108.500	71.667	82.471	1.00	0.00	C
ATOM	9840	C LYS D 822	109.170	71.145	81.238	1.00	0.00	C
ATOM	9841	O LYS D 822	108.657	71.275	80.128	1.00	0.00	O
ATOM	9842	CB LYS D 822	108.320	73.189	82.348	1.00	0.00	C
ATOM	9843	CG LYS D 822	107.568	73.780	83.542	1.00	0.00	C
ATOM	9844	CD LYS D 822	107.668	75.300	83.662	1.00	0.00	C
ATOM	9845	CE LYS D 822	107.075	75.842	84.966	1.00	0.00	C
ATOM	9846	NZ LYS D 822	107.927	75.445	86.109	1.00	0.00	N1+
ATOM	9847	N SER D 823	110.342	70.509	81.426	1.00	0.00	N
ATOM	9848	CA SER D 823	111.068	69.839	80.391	1.00	0.00	C
ATOM	9849	C SER D 823	112.139	69.115	81.135	1.00	0.00	C

ATOM	9850	O	SER D 823	113.263	69.602	81.242	1.00	0.00	O
ATOM	9851	CB	SER D 823	111.757	70.797	79.406	1.00	0.00	C
ATOM	9852	OG	SER D 823	112.457	70.057	78.417	1.00	0.00	O
ATOM	9853	N	SER D 824	111.801	67.927	81.670	1.00	0.00	N
ATOM	9854	CA	SER D 824	112.713	67.170	82.476	1.00	0.00	C
ATOM	9855	C	SER D 824	113.187	66.014	81.680	1.00	0.00	C
ATOM	9856	O	SER D 824	113.011	65.952	80.464	1.00	0.00	O
ATOM	9857	CB	SER D 824	112.068	66.553	83.730	1.00	0.00	C
ATOM	9858	OG	SER D 824	111.581	67.563	84.600	1.00	0.00	O
ATOM	9859	N	LEU D 825	113.820	65.054	82.376	1.00	0.00	N
ATOM	9860	CA	LEU D 825	114.215	63.873	81.687	1.00	0.00	C
ATOM	9861	C	LEU D 825	112.948	63.262	81.207	1.00	0.00	C
ATOM	9862	O	LEU D 825	112.892	62.685	80.124	1.00	0.00	O
ATOM	9863	CB	LEU D 825	114.945	62.819	82.530	1.00	0.00	C
ATOM	9864	CG	LEU D 825	115.128	61.519	81.726	1.00	0.00	C
ATOM	9865	CD1	LEU D 825	115.832	61.783	80.391	1.00	0.00	C
ATOM	9866	CD2	LEU D 825	115.827	60.428	82.540	1.00	0.00	C
ATOM	9867	N	TYR D 826	111.888	63.384	82.022	1.00	0.00	N
ATOM	9868	CA	TYR D 826	110.629	62.834	81.634	1.00	0.00	C
ATOM	9869	C	TYR D 826	110.203	63.550	80.392	1.00	0.00	C
ATOM	9870	O	TYR D 826	109.721	62.930	79.446	1.00	0.00	O
ATOM	9871	CB	TYR D 826	109.532	63.025	82.689	1.00	0.00	C
ATOM	9872	CG	TYR D 826	108.337	62.294	82.182	1.00	0.00	C
ATOM	9873	CD1	TYR D 826	108.237	60.934	82.361	1.00	0.00	C
ATOM	9874	CD2	TYR D 826	107.325	62.960	81.530	1.00	0.00	C
ATOM	9875	CE1	TYR D 826	107.142	60.244	81.899	1.00	0.00	C
ATOM	9876	CE2	TYR D 826	106.228	62.276	81.064	1.00	0.00	C
ATOM	9877	CZ	TYR D 826	106.137	60.916	81.250	1.00	0.00	C
ATOM	9878	OH	TYR D 826	105.015	60.207	80.769	1.00	0.00	O
ATOM	9879	N	SER D 827	110.384	64.882	80.362	1.00	0.00	N
ATOM	9880	CA	SER D 827	109.976	65.644	79.217	1.00	0.00	C
ATOM	9881	C	SER D 827	110.767	65.183	78.039	1.00	0.00	C
ATOM	9882	O	SER D 827	110.234	65.035	76.940	1.00	0.00	O
ATOM	9883	CB	SER D 827	110.227	67.152	79.374	1.00	0.00	C
ATOM	9884	OG	SER D 827	109.800	67.838	78.205	1.00	0.00	O
ATOM	9885	N	GLY D 828	112.072	64.929	78.239	1.00	0.00	N
ATOM	9886	CA	GLY D 828	112.905	64.518	77.149	1.00	0.00	C
ATOM	9887	C	GLY D 828	112.386	63.219	76.635	1.00	0.00	C
ATOM	9888	O	GLY D 828	112.344	62.990	75.428	1.00	0.00	O
ATOM	9889	N	ARG D 829	111.985	62.322	77.551	1.00	0.00	N
ATOM	9890	CA	ARG D 829	111.492	61.047	77.120	1.00	0.00	C
ATOM	9891	C	ARG D 829	110.234	61.251	76.347	1.00	0.00	C
ATOM	9892	O	ARG D 829	109.985	60.557	75.367	1.00	0.00	O
ATOM	9893	CB	ARG D 829	111.199	60.062	78.264	1.00	0.00	C

ATOM	9894	CG	ARG	D	829	112.468	59.397	78.799	1.00	0.00	C
ATOM	9895	CD	ARG	D	829	112.202	58.101	79.567	1.00	0.00	C
ATOM	9896	NE	ARG	D	829	111.564	58.459	80.862	1.00	0.00	N
ATOM	9897	CZ	ARG	D	829	112.337	58.575	81.983	1.00	0.00	C
ATOM	9898	NH1	ARG	D	829	113.678	58.332	81.915	1.00	0.00	N
ATOM	9899	NH2	ARG	D	829	111.764	58.931	83.168	1.00	0.00	N
ATOM	9900	N	VAL	D	830	109.404	62.222	76.768	1.00	0.00	N
ATOM	9901	CA	VAL	D	830	108.145	62.436	76.111	1.00	0.00	C
ATOM	9902	C	VAL	D	830	108.381	62.797	74.677	1.00	0.00	C
ATOM	9903	O	VAL	D	830	107.745	62.257	73.775	1.00	0.00	O
ATOM	9904	CB	VAL	D	830	107.361	63.558	76.724	1.00	0.00	C
ATOM	9905	CG1	VAL	D	830	106.090	63.782	75.888	1.00	0.00	C
ATOM	9906	CG2	VAL	D	830	107.088	63.216	78.200	1.00	0.00	C
ATOM	9907	N	ILE	D	831	109.331	63.708	74.431	1.00	0.00	N
ATOM	9908	CA	ILE	D	831	109.623	64.204	73.119	1.00	0.00	C
ATOM	9909	C	ILE	D	831	110.092	63.066	72.280	1.00	0.00	C
ATOM	9910	O	ILE	D	831	109.726	62.934	71.112	1.00	0.00	O
ATOM	9911	CB	ILE	D	831	110.780	65.143	73.185	1.00	0.00	C
ATOM	9912	CG1	ILE	D	831	110.467	66.287	74.151	1.00	0.00	C
ATOM	9913	CG2	ILE	D	831	111.145	65.587	71.766	1.00	0.00	C
ATOM	9914	CD1	ILE	D	831	111.730	66.968	74.661	1.00	0.00	C
ATOM	9915	N	PHE	D	832	110.938	62.217	72.879	1.00	0.00	N
ATOM	9916	CA	PHE	D	832	111.587	61.140	72.198	1.00	0.00	C
ATOM	9917	C	PHE	D	832	110.525	60.199	71.708	1.00	0.00	C
ATOM	9918	O	PHE	D	832	110.583	59.722	70.577	1.00	0.00	O
ATOM	9919	CB	PHE	D	832	112.529	60.402	73.168	1.00	0.00	C
ATOM	9920	CG	PHE	D	832	113.663	59.763	72.439	1.00	0.00	C
ATOM	9921	CD1	PHE	D	832	114.723	60.531	72.017	1.00	0.00	C
ATOM	9922	CD2	PHE	D	832	113.700	58.413	72.208	1.00	0.00	C
ATOM	9923	CE1	PHE	D	832	115.785	59.965	71.358	1.00	0.00	C
ATOM	9924	CE2	PHE	D	832	114.760	57.834	71.548	1.00	0.00	C
ATOM	9925	CZ	PHE	D	832	115.807	58.612	71.117	1.00	0.00	C
ATOM	9926	N	CYS	D	833	109.521	59.911	72.558	1.00	0.00	N
ATOM	9927	CA	CYS	D	833	108.460	59.008	72.203	1.00	0.00	C
ATOM	9928	C	CYS	D	833	107.672	59.571	71.065	1.00	0.00	C
ATOM	9929	O	CYS	D	833	107.333	58.856	70.123	1.00	0.00	O
ATOM	9930	CB	CYS	D	833	107.474	58.771	73.362	1.00	0.00	C
ATOM	9931	SG	CYS	D	833	106.132	57.627	72.914	1.00	0.00	S
ATOM	9932	N	LEU	D	834	107.368	60.882	71.117	1.00	0.00	N
ATOM	9933	CA	LEU	D	834	106.557	61.506	70.108	1.00	0.00	C
ATOM	9934	C	LEU	D	834	107.273	61.431	68.801	1.00	0.00	C
ATOM	9935	O	LEU	D	834	106.665	61.170	67.767	1.00	0.00	O
ATOM	9936	CB	LEU	D	834	106.277	62.991	70.403	1.00	0.00	C
ATOM	9937	CG	LEU	D	834	105.440	63.204	71.677	1.00	0.00	C

ATOM	9938	CD1 LEU D 834	105.157	64.694	71.920	1.00	0.00	C
ATOM	9939	CD2 LEU D 834	104.164	62.346	71.658	1.00	0.00	C
ATOM	9940	N ASP D 835	108.600	61.642	68.823	1.00	0.00	N
ATOM	9941	CA ASP D 835	109.366	61.623	67.615	1.00	0.00	C
ATOM	9942	C ASP D 835	109.228	60.258	67.033	1.00	0.00	C
ATOM	9943	O ASP D 835	109.091	60.100	65.823	1.00	0.00	O
ATOM	9944	CB ASP D 835	110.861	61.874	67.869	1.00	0.00	C
ATOM	9945	CG ASP D 835	111.017	63.307	68.359	1.00	0.00	C
ATOM	9946	OD1 ASP D 835	110.216	64.173	67.919	1.00	0.00	O
ATOM	9947	OD2 ASP D 835	111.935	63.552	69.185	1.00	0.00	O
ATOM	9948	N TYR D 836	109.214	59.237	67.902	1.00	0.00	N
ATOM	9949	CA TYR D 836	109.116	57.872	67.475	1.00	0.00	C
ATOM	9950	C TYR D 836	107.848	57.713	66.703	1.00	0.00	C
ATOM	9951	O TYR D 836	107.832	57.074	65.653	1.00	0.00	O
ATOM	9952	CB TYR D 836	109.054	56.896	68.664	1.00	0.00	C
ATOM	9953	CG TYR D 836	108.645	55.549	68.166	1.00	0.00	C
ATOM	9954	CD1 TYR D 836	109.566	54.662	67.667	1.00	0.00	C
ATOM	9955	CD2 TYR D 836	107.321	55.180	68.211	1.00	0.00	C
ATOM	9956	CE1 TYR D 836	109.165	53.426	67.214	1.00	0.00	C
ATOM	9957	CE2 TYR D 836	106.914	53.946	67.759	1.00	0.00	C
ATOM	9958	CZ TYR D 836	107.842	53.066	67.259	1.00	0.00	C
ATOM	9959	OH TYR D 836	107.434	51.796	66.796	1.00	0.00	O
ATOM	9960	N ILE D 837	106.749	58.305	67.200	1.00	0.00	N
ATOM	9961	CA ILE D 837	105.477	58.140	66.563	1.00	0.00	C
ATOM	9962	C ILE D 837	105.530	58.713	65.182	1.00	0.00	C
ATOM	9963	O ILE D 837	105.081	58.082	64.228	1.00	0.00	O
ATOM	9964	CB ILE D 837	104.370	58.840	67.292	1.00	0.00	C
ATOM	9965	CG1 ILE D 837	104.230	58.286	68.718	1.00	0.00	C
ATOM	9966	CG2 ILE D 837	103.094	58.692	66.448	1.00	0.00	C
ATOM	9967	CD1 ILE D 837	103.334	59.141	69.614	1.00	0.00	C
ATOM	9968	N ILE D 838	106.099	59.924	65.033	1.00	0.00	N
ATOM	9969	CA ILE D 838	106.110	60.566	63.750	1.00	0.00	C
ATOM	9970	C ILE D 838	106.930	59.770	62.788	1.00	0.00	C
ATOM	9971	O ILE D 838	106.563	59.645	61.621	1.00	0.00	O
ATOM	9972	CB ILE D 838	106.632	61.976	63.765	1.00	0.00	C
ATOM	9973	CG1 ILE D 838	106.253	62.686	62.454	1.00	0.00	C
ATOM	9974	CG2 ILE D 838	108.148	61.932	64.016	1.00	0.00	C
ATOM	9975	CD1 ILE D 838	104.746	62.891	62.287	1.00	0.00	C
ATOM	9976	N PHE D 839	108.068	59.210	63.243	1.00	0.00	N
ATOM	9977	CA PHE D 839	108.902	58.473	62.340	1.00	0.00	C
ATOM	9978	C PHE D 839	108.114	57.325	61.814	1.00	0.00	C
ATOM	9979	O PHE D 839	108.155	57.022	60.624	1.00	0.00	O
ATOM	9980	CB PHE D 839	110.197	57.920	62.966	1.00	0.00	C
ATOM	9981	CG PHE D 839	111.102	59.075	63.233	1.00	0.00	C

ATOM	9982	CD1 PHE D 839	111.673	59.768	62.188	1.00	0.00	C
ATOM	9983	CD2 PHE D 839	111.405	59.452	64.517	1.00	0.00	C
ATOM	9984	CE1 PHE D 839	112.510	60.833	62.423	1.00	0.00	C
ATOM	9985	CE2 PHE D 839	112.240	60.517	64.763	1.00	0.00	C
ATOM	9986	CZ PHE D 839	112.793	61.212	63.712	1.00	0.00	C
ATOM	9987	N THR D 840	107.343	56.670	62.692	1.00	0.00	N
ATOM	9988	CA THR D 840	106.578	55.523	62.315	1.00	0.00	C
ATOM	9989	C THR D 840	105.603	55.965	61.267	1.00	0.00	C
ATOM	9990	O THR D 840	105.367	55.262	60.286	1.00	0.00	O
ATOM	9991	CB THR D 840	105.793	55.003	63.477	1.00	0.00	C
ATOM	9992	CG2 THR D 840	105.199	53.643	63.095	1.00	0.00	C
ATOM	9993	OG1 THR D 840	106.658	54.823	64.585	1.00	0.00	O
ATOM	9994	N LEU D 841	105.036	57.172	61.443	1.00	0.00	N
ATOM	9995	CA LEU D 841	104.038	57.674	60.544	1.00	0.00	C
ATOM	9996	C LEU D 841	104.655	57.779	59.188	1.00	0.00	C
ATOM	9997	O LEU D 841	104.020	57.479	58.178	1.00	0.00	O
ATOM	9998	CB LEU D 841	103.531	59.070	60.941	1.00	0.00	C
ATOM	9999	CG LEU D 841	102.458	59.622	59.986	1.00	0.00	C
ATOM	10000	CD1 LEU D 841	101.180	58.768	60.039	1.00	0.00	C
ATOM	10001	CD2 LEU D 841	102.187	61.110	60.247	1.00	0.00	C
ATOM	10002	N ARG D 842	105.923	58.205	59.142	1.00	0.00	N
ATOM	10003	CA ARG D 842	106.665	58.364	57.926	1.00	0.00	C
ATOM	10004	C ARG D 842	106.725	57.029	57.252	1.00	0.00	C
ATOM	10005	O ARG D 842	106.497	56.915	56.048	1.00	0.00	O
ATOM	10006	CB ARG D 842	108.090	58.815	58.276	1.00	0.00	C
ATOM	10007	CG ARG D 842	109.125	58.858	57.157	1.00	0.00	C
ATOM	10008	CD ARG D 842	110.467	59.327	57.728	1.00	0.00	C
ATOM	10009	NE ARG D 842	111.523	59.187	56.695	1.00	0.00	N
ATOM	10010	CZ ARG D 842	112.771	59.666	56.966	1.00	0.00	C
ATOM	10011	NH1 ARG D 842	113.008	60.333	58.136	1.00	0.00	N
ATOM	10012	NH2 ARG D 842	113.786	59.481	56.074	1.00	0.00	N
ATOM	10013	N LEU D 843	107.009	55.965	58.024	1.00	0.00	N
ATOM	10014	CA LEU D 843	107.097	54.660	57.442	1.00	0.00	C
ATOM	10015	C LEU D 843	105.770	54.283	56.883	1.00	0.00	C
ATOM	10016	O LEU D 843	105.688	53.727	55.791	1.00	0.00	O
ATOM	10017	CB LEU D 843	107.502	53.554	58.430	1.00	0.00	C
ATOM	10018	CG LEU D 843	108.999	53.565	58.795	1.00	0.00	C
ATOM	10019	CD1 LEU D 843	109.405	54.876	59.474	1.00	0.00	C
ATOM	10020	CD2 LEU D 843	109.379	52.319	59.611	1.00	0.00	C
ATOM	10021	N ILE D 844	104.685	54.612	57.603	1.00	0.00	N
ATOM	10022	CA ILE D 844	103.381	54.212	57.178	1.00	0.00	C
ATOM	10023	C ILE D 844	103.138	54.796	55.825	1.00	0.00	C
ATOM	10024	O ILE D 844	102.644	54.116	54.927	1.00	0.00	O
ATOM	10025	CB ILE D 844	102.317	54.734	58.094	1.00	0.00	C

ATOM	10026	CG1 ILE D 844	102.529	54.166	59.505	1.00	0.00	C
ATOM	10027	CG2 ILE D 844	100.949	54.402	57.474	1.00	0.00	C
ATOM	10028	CD1 ILE D 844	101.779	54.925	60.594	1.00	0.00	C
HETATM	10029	N HIE D 845	103.509	56.072	55.635	1.00	0.00	N
HETATM	10030	CA HIE D 845	103.268	56.690	54.366	1.00	0.00	C
HETATM	10031	C HIE D 845	104.051	55.961	53.321	1.00	0.00	C
HETATM	10032	O HIE D 845	103.578	55.772	52.205	1.00	0.00	O
HETATM	10033	CB HIE D 845	103.668	58.168	54.292	1.00	0.00	C
HETATM	10034	CG HIE D 845	103.259	58.766	52.980	1.00	0.00	C
HETATM	10035	CD2 HIE D 845	103.997	59.026	51.865	1.00	0.00	C
HETATM	10036	ND1 HIE D 845	101.973	59.155	52.676	1.00	0.00	N
HETATM	10037	CE1 HIE D 845	101.994	59.627	51.407	1.00	0.00	C
HETATM	10038	NE2 HIE D 845	103.201	59.569	50.872	1.00	0.00	N
ATOM	10039	N ILE D 846	105.275	55.529	53.666	1.00	0.00	N
ATOM	10040	CA ILE D 846	106.112	54.863	52.714	1.00	0.00	C
ATOM	10041	C ILE D 846	105.413	53.615	52.272	1.00	0.00	C
ATOM	10042	O ILE D 846	105.385	53.300	51.084	1.00	0.00	O
ATOM	10043	CB ILE D 846	107.437	54.462	53.303	1.00	0.00	C
ATOM	10044	CG1 ILE D 846	108.186	55.708	53.807	1.00	0.00	C
ATOM	10045	CG2 ILE D 846	108.211	53.672	52.233	1.00	0.00	C
ATOM	10046	CD1 ILE D 846	109.396	55.383	54.685	1.00	0.00	C
ATOM	10047	N PHE D 847	104.809	52.881	53.224	1.00	0.00	N
ATOM	10048	CA PHE D 847	104.155	51.649	52.888	1.00	0.00	C
ATOM	10049	C PHE D 847	103.020	51.958	51.960	1.00	0.00	C
ATOM	10050	O PHE D 847	102.807	51.261	50.968	1.00	0.00	O
ATOM	10051	CB PHE D 847	103.516	50.936	54.095	1.00	0.00	C
ATOM	10052	CG PHE D 847	104.557	50.638	55.122	1.00	0.00	C
ATOM	10053	CD1 PHE D 847	105.525	49.681	54.904	1.00	0.00	C
ATOM	10054	CD2 PHE D 847	104.539	51.300	56.328	1.00	0.00	C
ATOM	10055	CE1 PHE D 847	106.469	49.420	55.866	1.00	0.00	C
ATOM	10056	CE2 PHE D 847	105.482	51.042	57.294	1.00	0.00	C
ATOM	10057	CZ PHE D 847	106.455	50.097	57.063	1.00	0.00	C
ATOM	10058	N THR D 848	102.270	53.033	52.262	1.00	0.00	N
ATOM	10059	CA THR D 848	101.085	53.387	51.536	1.00	0.00	C
ATOM	10060	C THR D 848	101.428	53.638	50.105	1.00	0.00	C
ATOM	10061	O THR D 848	100.777	53.127	49.196	1.00	0.00	O
ATOM	10062	CB THR D 848	100.498	54.670	52.034	1.00	0.00	C
ATOM	10063	CG2 THR D 848	99.163	54.909	51.314	1.00	0.00	C
ATOM	10064	OG1 THR D 848	100.284	54.593	53.434	1.00	0.00	O
ATOM	10065	N VAL D 849	102.475	54.440	49.862	1.00	0.00	N
ATOM	10066	CA VAL D 849	102.817	54.750	48.507	1.00	0.00	C
ATOM	10067	C VAL D 849	103.232	53.494	47.824	1.00	0.00	C
ATOM	10068	O VAL D 849	102.821	53.222	46.695	1.00	0.00	O
ATOM	10069	CB VAL D 849	103.968	55.707	48.405	1.00	0.00	C

ATOM 10070	CG1 VAL D 849	104.329	55.876	46.920	1.00	0.00	C
ATOM 10071	CG2 VAL D 849	103.578	57.018	49.110	1.00	0.00	C
ATOM 10072	N SER D 850	104.054	52.680	48.508	1.00	0.00	N
ATOM 10073	CA SER D 850	104.587	51.485	47.927	1.00	0.00	C
ATOM 10074	C SER D 850	103.464	50.564	47.581	1.00	0.00	C
ATOM 10075	O SER D 850	103.461	49.956	46.511	1.00	0.00	O
ATOM 10076	CB SER D 850	105.508	50.727	48.898	1.00	0.00	C
ATOM 10077	OG SER D 850	106.621	51.536	49.250	1.00	0.00	O
ATOM 10078	N ARG D 851	102.469	50.435	48.479	1.00	0.00	N
ATOM 10079	CA ARG D 851	101.394	49.522	48.230	1.00	0.00	C
ATOM 10080	C ARG D 851	100.619	49.947	47.024	1.00	0.00	C
ATOM 10081	O ARG D 851	100.286	49.112	46.183	1.00	0.00	O
ATOM 10082	CB ARG D 851	100.407	49.376	49.406	1.00	0.00	C
ATOM 10083	CG ARG D 851	99.732	50.681	49.842	1.00	0.00	C
ATOM 10084	CD ARG D 851	98.583	50.495	50.839	1.00	0.00	C
ATOM 10085	NE ARG D 851	97.358	50.156	50.061	1.00	0.00	N
ATOM 10086	CZ ARG D 851	96.475	51.142	49.721	1.00	0.00	C
ATOM 10087	NH1 ARG D 851	96.692	52.425	50.136	1.00	0.00	N
ATOM 10088	NH2 ARG D 851	95.373	50.846	48.973	1.00	0.00	N
ATOM 10089	N ASN D 852	100.317	51.255	46.889	1.00	0.00	N
ATOM 10090	CA ASN D 852	99.481	51.657	45.794	1.00	0.00	C
ATOM 10091	C ASN D 852	100.282	52.457	44.806	1.00	0.00	C
ATOM 10092	O ASN D 852	100.215	53.684	44.783	1.00	0.00	O
ATOM 10093	CB ASN D 852	98.318	52.539	46.270	1.00	0.00	C
ATOM 10094	CG ASN D 852	97.274	52.555	45.178	1.00	0.00	C
ATOM 10095	ND2 ASN D 852	96.063	53.074	45.521	1.00	0.00	N
ATOM 10096	OD1 ASN D 852	97.525	52.111	44.059	1.00	0.00	O
ATOM 10097	N LEU D 853	101.090	51.754	43.990	1.00	0.00	N
ATOM 10098	CA LEU D 853	101.915	52.271	42.931	1.00	0.00	C
ATOM 10099	C LEU D 853	101.093	52.584	41.716	1.00	0.00	C
ATOM 10100	O LEU D 853	101.415	53.501	40.965	1.00	0.00	O
ATOM 10101	CB LEU D 853	103.021	51.252	42.557	1.00	0.00	C
ATOM 10102	CG LEU D 853	104.062	51.669	41.490	1.00	0.00	C
ATOM 10103	CD1 LEU D 853	105.176	50.612	41.409	1.00	0.00	C
ATOM 10104	CD2 LEU D 853	103.458	51.903	40.097	1.00	0.00	C
ATOM 10105	N GLY D 854	100.018	51.801	41.492	1.00	0.00	N
ATOM 10106	CA GLY D 854	99.219	51.808	40.290	1.00	0.00	C
ATOM 10107	C GLY D 854	98.770	53.176	39.887	1.00	0.00	C
ATOM 10108	O GLY D 854	99.024	54.177	40.550	1.00	0.00	O
ATOM 10109	N PRO D 855	97.941	53.179	38.846	1.00	0.00	N
ATOM 10110	CA PRO D 855	97.294	54.338	38.289	1.00	0.00	C
ATOM 10111	C PRO D 855	96.569	55.108	39.334	1.00	0.00	C
ATOM 10112	O PRO D 855	96.157	56.243	39.100	1.00	0.00	O
ATOM 10113	CB PRO D 855	96.462	53.832	37.118	1.00	0.00	C

ATOM 10114	CG	PRO D 855	97.269	52.616	36.627	1.00	0.00	C
ATOM 10115	CD	PRO D 855	97.978	52.088	37.887	1.00	0.00	C
ATOM 10116	N	LYS D 856	96.440	54.482	40.497	1.00	0.00	N
ATOM 10117	CA	LYS D 856	95.898	54.958	41.702	1.00	0.00	C
ATOM 10118	C	LYS D 856	96.711	56.112	42.213	1.00	0.00	C
ATOM 10119	O	LYS D 856	96.185	56.914	42.974	1.00	0.00	O
ATOM 10120	CB	LYS D 856	95.874	53.878	42.782	1.00	0.00	C
ATOM 10121	CG	LYS D 856	95.021	52.663	42.414	1.00	0.00	C
ATOM 10122	CD	LYS D 856	95.648	51.750	41.357	1.00	0.00	C
ATOM 10123	CE	LYS D 856	96.193	50.444	41.942	1.00	0.00	C
ATOM 10124	NZ	LYS D 856	96.656	49.552	40.855	1.00	0.00	N1+
ATOM 10125	N	ILE D 857	98.007	56.241	41.836	1.00	0.00	N
ATOM 10126	CA	ILE D 857	98.793	57.302	42.416	1.00	0.00	C
ATOM 10127	C	ILE D 857	98.166	58.624	42.159	1.00	0.00	C
ATOM 10128	O	ILE D 857	98.100	59.464	43.056	1.00	0.00	O
ATOM 10129	CB	ILE D 857	100.208	57.415	41.928	1.00	0.00	C
ATOM 10130	CG1	ILE D 857	100.893	58.592	42.637	1.00	0.00	C
ATOM 10131	CG2	ILE D 857	100.180	57.645	40.415	1.00	0.00	C
ATOM 10132	CD1	ILE D 857	100.899	58.506	44.159	1.00	0.00	C
ATOM 10133	N	ILE D 858	97.661	58.847	40.939	1.00	0.00	N
ATOM 10134	CA	ILE D 858	97.114	60.128	40.621	1.00	0.00	C
ATOM 10135	C	ILE D 858	95.991	60.407	41.575	1.00	0.00	C
ATOM 10136	O	ILE D 858	95.881	61.502	42.124	1.00	0.00	O
ATOM 10137	CB	ILE D 858	96.634	60.158	39.186	1.00	0.00	C
ATOM 10138	CG1	ILE D 858	96.422	61.589	38.686	1.00	0.00	C
ATOM 10139	CG2	ILE D 858	95.412	59.243	39.026	1.00	0.00	C
ATOM 10140	CD1	ILE D 858	97.717	62.277	38.267	1.00	0.00	C
ATOM 10141	N	MET D 859	95.137	59.396	41.821	1.00	0.00	N
ATOM 10142	CA	MET D 859	94.003	59.530	42.684	1.00	0.00	C
ATOM 10143	C	MET D 859	94.459	59.738	44.092	1.00	0.00	C
ATOM 10144	O	MET D 859	93.876	60.528	44.835	1.00	0.00	O
ATOM 10145	CB	MET D 859	93.106	58.279	42.655	1.00	0.00	C
ATOM 10146	CG	MET D 859	91.775	58.442	43.394	1.00	0.00	C
ATOM 10147	SD	MET D 859	91.889	58.479	45.206	1.00	0.00	S
ATOM 10148	CE	MET D 859	92.169	56.693	45.349	1.00	0.00	C
ATOM 10149	N	LEU D 860	95.533	59.032	44.480	1.00	0.00	N
ATOM 10150	CA	LEU D 860	96.002	59.013	45.833	1.00	0.00	C
ATOM 10151	C	LEU D 860	96.416	60.387	46.266	1.00	0.00	C
ATOM 10152	O	LEU D 860	96.064	60.821	47.365	1.00	0.00	O
ATOM 10153	CB	LEU D 860	97.183	58.022	45.978	1.00	0.00	C
ATOM 10154	CG	LEU D 860	97.701	57.727	47.402	1.00	0.00	C
ATOM 10155	CD1	LEU D 860	98.806	56.660	47.347	1.00	0.00	C
ATOM 10156	CD2	LEU D 860	98.181	58.985	48.148	1.00	0.00	C
ATOM 10157	N	GLN D 861	97.162	61.129	45.429	1.00	0.00	N

ATOM 10158	CA	GLN D 861	97.653	62.400	45.886	1.00	0.00	C
ATOM 10159	C	GLN D 861	96.529	63.363	46.127	1.00	0.00	C
ATOM 10160	O	GLN D 861	96.515	64.061	47.140	1.00	0.00	O
ATOM 10161	CB	GLN D 861	98.633	63.076	44.915	1.00	0.00	C
ATOM 10162	CG	GLN D 861	99.177	64.390	45.484	1.00	0.00	C
ATOM 10163	CD	GLN D 861	100.141	65.003	44.483	1.00	0.00	C
ATOM 10164	NE2	GLN D 861	100.802	66.118	44.889	1.00	0.00	N
ATOM 10165	OE1	GLN D 861	100.301	64.508	43.369	1.00	0.00	O
ATOM 10166	N	ARG D 862	95.550	63.425	45.208	1.00	0.00	N
ATOM 10167	CA	ARG D 862	94.470	64.368	45.324	1.00	0.00	C
ATOM 10168	C	ARG D 862	93.679	64.046	46.550	1.00	0.00	C
ATOM 10169	O	ARG D 862	93.260	64.934	47.288	1.00	0.00	O
ATOM 10170	CB	ARG D 862	93.499	64.290	44.134	1.00	0.00	C
ATOM 10171	CG	ARG D 862	92.333	65.273	44.208	1.00	0.00	C
ATOM 10172	CD	ARG D 862	92.743	66.722	43.945	1.00	0.00	C
ATOM 10173	NE	ARG D 862	91.496	67.535	43.936	1.00	0.00	N
ATOM 10174	CZ	ARG D 862	91.003	68.037	45.105	1.00	0.00	C
ATOM 10175	NH1	ARG D 862	91.682	67.834	46.272	1.00	0.00	N
ATOM 10176	NH2	ARG D 862	89.834	68.742	45.106	1.00	0.00	N
ATOM 10177	N	MET D 863	93.466	62.747	46.801	1.00	0.00	N
ATOM 10178	CA	MET D 863	92.684	62.330	47.923	1.00	0.00	C
ATOM 10179	C	MET D 863	93.380	62.786	49.159	1.00	0.00	C
ATOM 10180	O	MET D 863	92.749	63.206	50.129	1.00	0.00	O
ATOM 10181	CB	MET D 863	92.536	60.800	47.973	1.00	0.00	C
ATOM 10182	CG	MET D 863	91.709	60.276	49.148	1.00	0.00	C
ATOM 10183	SD	MET D 863	92.585	60.271	50.738	1.00	0.00	S
ATOM 10184	CE	MET D 863	91.226	59.499	51.661	1.00	0.00	C
ATOM 10185	N	LEU D 864	94.720	62.728	49.152	1.00	0.00	N
ATOM 10186	CA	LEU D 864	95.471	63.093	50.310	1.00	0.00	C
ATOM 10187	C	LEU D 864	95.212	64.533	50.618	1.00	0.00	C
ATOM 10188	O	LEU D 864	94.963	64.896	51.765	1.00	0.00	O
ATOM 10189	CB	LEU D 864	96.986	63.010	50.076	1.00	0.00	C
ATOM 10190	CG	LEU D 864	97.813	63.275	51.346	1.00	0.00	C
ATOM 10191	CD1	LEU D 864	97.882	62.020	52.227	1.00	0.00	C
ATOM 10192	CD2	LEU D 864	99.175	63.899	51.018	1.00	0.00	C
ATOM 10193	N	ILE D 865	95.262	65.400	49.594	1.00	0.00	N
ATOM 10194	CA	ILE D 865	95.120	66.799	49.868	1.00	0.00	C
ATOM 10195	C	ILE D 865	93.751	67.096	50.387	1.00	0.00	C
ATOM 10196	O	ILE D 865	93.605	67.812	51.378	1.00	0.00	O
ATOM 10197	CB	ILE D 865	95.392	67.678	48.679	1.00	0.00	C
ATOM 10198	CG1	ILE D 865	95.520	69.140	49.130	1.00	0.00	C
ATOM 10199	CG2	ILE D 865	94.310	67.446	47.614	1.00	0.00	C
ATOM 10200	CD1	ILE D 865	96.105	70.058	48.059	1.00	0.00	C
ATOM 10201	N	ASP D 866	92.697	66.546	49.751	1.00	0.00	N

ATOM 10202	CA	ASP D 866	91.382	66.902	50.193	1.00	0.00	C
ATOM 10203	C	ASP D 866	91.118	66.395	51.580	1.00	0.00	C
ATOM 10204	O	ASP D 866	90.479	67.082	52.377	1.00	0.00	O
ATOM 10205	CB	ASP D 866	90.254	66.522	49.205	1.00	0.00	C
ATOM 10206	CG	ASP D 866	90.194	65.033	48.900	1.00	0.00	C
ATOM 10207	OD1	ASP D 866	90.442	64.203	49.810	1.00	0.00	O
ATOM 10208	OD2	ASP D 866	89.893	64.708	47.723	1.00	0.00	O
ATOM 10209	N	VAL D 867	91.616	65.192	51.923	1.00	0.00	N
ATOM 10210	CA	VAL D 867	91.352	64.658	53.229	1.00	0.00	C
ATOM 10211	C	VAL D 867	92.004	65.524	54.260	1.00	0.00	C
ATOM 10212	O	VAL D 867	91.414	65.813	55.294	1.00	0.00	O
ATOM 10213	CB	VAL D 867	91.848	63.255	53.414	1.00	0.00	C
ATOM 10214	CG1	VAL D 867	91.088	62.346	52.437	1.00	0.00	C
ATOM 10215	CG2	VAL D 867	93.375	63.230	53.250	1.00	0.00	C
ATOM 10216	N	PHE D 868	93.243	65.984	54.001	1.00	0.00	N
ATOM 10217	CA	PHE D 868	93.921	66.780	54.986	1.00	0.00	C
ATOM 10218	C	PHE D 868	93.134	68.015	55.252	1.00	0.00	C
ATOM 10219	O	PHE D 868	92.978	68.418	56.404	1.00	0.00	O
ATOM 10220	CB	PHE D 868	95.337	67.219	54.576	1.00	0.00	C
ATOM 10221	CG	PHE D 868	96.270	66.094	54.857	1.00	0.00	C
ATOM 10222	CD1	PHE D 868	96.721	65.891	56.141	1.00	0.00	C
ATOM 10223	CD2	PHE D 868	96.708	65.260	53.859	1.00	0.00	C
ATOM 10224	CE1	PHE D 868	97.587	64.865	56.436	1.00	0.00	C
ATOM 10225	CE2	PHE D 868	97.575	64.231	54.152	1.00	0.00	C
ATOM 10226	CZ	PHE D 868	98.017	64.029	55.437	1.00	0.00	C
ATOM 10227	N	PHE D 869	92.610	68.648	54.191	1.00	0.00	N
ATOM 10228	CA	PHE D 869	91.866	69.857	54.362	1.00	0.00	C
ATOM 10229	C	PHE D 869	90.695	69.537	55.248	1.00	0.00	C
ATOM 10230	O	PHE D 869	90.427	70.240	56.220	1.00	0.00	O
ATOM 10231	CB	PHE D 869	91.319	70.367	53.014	1.00	0.00	C
ATOM 10232	CG	PHE D 869	90.607	71.662	53.205	1.00	0.00	C
ATOM 10233	CD1	PHE D 869	91.308	72.848	53.208	1.00	0.00	C
ATOM 10234	CD2	PHE D 869	89.241	71.696	53.371	1.00	0.00	C
ATOM 10235	CE1	PHE D 869	90.659	74.047	53.382	1.00	0.00	C
ATOM 10236	CE2	PHE D 869	88.584	72.892	53.544	1.00	0.00	C
ATOM 10237	CZ	PHE D 869	89.294	74.070	53.551	1.00	0.00	C
ATOM 10238	N	PHE D 870	89.997	68.427	54.949	1.00	0.00	N
ATOM 10239	CA	PHE D 870	88.818	68.033	55.667	1.00	0.00	C
ATOM 10240	C	PHE D 870	89.097	67.787	57.113	1.00	0.00	C
ATOM 10241	O	PHE D 870	88.405	68.320	57.977	1.00	0.00	O
ATOM 10242	CB	PHE D 870	88.189	66.756	55.077	1.00	0.00	C
ATOM 10243	CG	PHE D 870	87.237	66.174	56.063	1.00	0.00	C
ATOM 10244	CD1	PHE D 870	86.311	66.961	56.694	1.00	0.00	C
ATOM 10245	CD2	PHE D 870	87.236	64.826	56.335	1.00	0.00	C

ATOM 10246	CE1 PHE D 870	85.409	66.440	57.594	1.00	0.00	C
ATOM 10247	CE2 PHE D 870	86.339	64.289	57.233	1.00	0.00	C
ATOM 10248	CZ PHE D 870	85.426	65.095	57.864	1.00	0.00	C
ATOM 10249	N LEU D 871	90.125	66.982	57.420	1.00	0.00	N
ATOM 10250	CA LEU D 871	90.372	66.673	58.796	1.00	0.00	C
ATOM 10251	C LEU D 871	90.732	67.923	59.525	1.00	0.00	C
ATOM 10252	O LEU D 871	90.335	68.109	60.672	1.00	0.00	O
ATOM 10253	CB LEU D 871	91.497	65.643	59.012	1.00	0.00	C
ATOM 10254	CG LEU D 871	91.087	64.193	58.691	1.00	0.00	C
ATOM 10255	CD1 LEU D 871	90.004	63.703	59.667	1.00	0.00	C
ATOM 10256	CD2 LEU D 871	90.676	64.011	57.223	1.00	0.00	C
ATOM 10257	N PHE D 872	91.482	68.831	58.873	1.00	0.00	N
ATOM 10258	CA PHE D 872	91.918	70.008	59.562	1.00	0.00	C
ATOM 10259	C PHE D 872	90.726	70.794	60.003	1.00	0.00	C
ATOM 10260	O PHE D 872	90.646	71.204	61.160	1.00	0.00	O
ATOM 10261	CB PHE D 872	92.791	70.930	58.691	1.00	0.00	C
ATOM 10262	CG PHE D 872	93.273	72.029	59.574	1.00	0.00	C
ATOM 10263	CD1 PHE D 872	94.348	71.828	60.409	1.00	0.00	C
ATOM 10264	CD2 PHE D 872	92.655	73.262	59.570	1.00	0.00	C
ATOM 10265	CE1 PHE D 872	94.801	72.834	61.229	1.00	0.00	C
ATOM 10266	CE2 PHE D 872	93.107	74.269	60.388	1.00	0.00	C
ATOM 10267	CZ PHE D 872	94.178	74.059	61.218	1.00	0.00	C
ATOM 10268	N LEU D 873	89.753	71.016	59.103	1.00	0.00	N
ATOM 10269	CA LEU D 873	88.611	71.802	59.468	1.00	0.00	C
ATOM 10270	C LEU D 873	87.806	71.114	60.526	1.00	0.00	C
ATOM 10271	O LEU D 873	87.290	71.758	61.437	1.00	0.00	O
ATOM 10272	CB LEU D 873	87.673	72.118	58.296	1.00	0.00	C
ATOM 10273	CG LEU D 873	88.223	73.209	57.358	1.00	0.00	C
ATOM 10274	CD1 LEU D 873	89.535	72.785	56.686	1.00	0.00	C
ATOM 10275	CD2 LEU D 873	87.149	73.654	56.360	1.00	0.00	C
ATOM 10276	N PHE D 874	87.661	69.784	60.444	1.00	0.00	N
ATOM 10277	CA PHE D 874	86.813	69.150	61.407	1.00	0.00	C
ATOM 10278	C PHE D 874	87.404	69.352	62.766	1.00	0.00	C
ATOM 10279	O PHE D 874	86.710	69.735	63.707	1.00	0.00	O
ATOM 10280	CB PHE D 874	86.673	67.638	61.162	1.00	0.00	C
ATOM 10281	CG PHE D 874	85.480	67.171	61.923	1.00	0.00	C
ATOM 10282	CD1 PHE D 874	84.224	67.292	61.368	1.00	0.00	C
ATOM 10283	CD2 PHE D 874	85.599	66.611	63.173	1.00	0.00	C
ATOM 10284	CE1 PHE D 874	83.108	66.868	62.048	1.00	0.00	C
ATOM 10285	CE2 PHE D 874	84.486	66.186	63.857	1.00	0.00	C
ATOM 10286	CZ PHE D 874	83.239	66.314	63.299	1.00	0.00	C
ATOM 10287	N ALA D 875	88.724	69.117	62.897	1.00	0.00	N
ATOM 10288	CA ALA D 875	89.387	69.230	64.164	1.00	0.00	C
ATOM 10289	C ALA D 875	89.310	70.643	64.647	1.00	0.00	C

ATOM 10290	O	ALA D 875	89.055	70.883	65.825	1.00	0.00	O
ATOM 10291	CB	ALA D 875	90.876	68.849	64.086	1.00	0.00	C
ATOM 10292	N	VAL D 876	89.520	71.620	63.744	1.00	0.00	N
ATOM 10293	CA	VAL D 876	89.523	72.990	64.168	1.00	0.00	C
ATOM 10294	C	VAL D 876	88.172	73.349	64.681	1.00	0.00	C
ATOM 10295	O	VAL D 876	88.049	74.063	65.677	1.00	0.00	O
ATOM 10296	CB	VAL D 876	89.921	73.961	63.089	1.00	0.00	C
ATOM 10297	CG1	VAL D 876	91.366	73.629	62.682	1.00	0.00	C
ATOM 10298	CG2	VAL D 876	88.912	73.907	61.931	1.00	0.00	C
ATOM 10299	N	TRP D 877	87.107	72.865	64.023	1.00	0.00	N
ATOM 10300	CA	TRP D 877	85.791	73.194	64.479	1.00	0.00	C
ATOM 10301	C	TRP D 877	85.610	72.645	65.860	1.00	0.00	C
ATOM 10302	O	TRP D 877	85.120	73.337	66.750	1.00	0.00	O
ATOM 10303	CB	TRP D 877	84.681	72.593	63.599	1.00	0.00	C
ATOM 10304	CG	TRP D 877	83.285	72.837	64.124	1.00	0.00	C
ATOM 10305	CD1	TRP D 877	82.452	73.901	63.941	1.00	0.00	C
ATOM 10306	CD2	TRP D 877	82.579	71.903	64.953	1.00	0.00	C
ATOM 10307	CE2	TRP D 877	81.333	72.463	65.237	1.00	0.00	C
ATOM 10308	CE3	TRP D 877	82.938	70.678	65.439	1.00	0.00	C
ATOM 10309	NE1	TRP D 877	81.269	73.689	64.609	1.00	0.00	N
ATOM 10310	CZ2	TRP D 877	80.424	71.801	66.016	1.00	0.00	C
ATOM 10311	CZ3	TRP D 877	82.021	70.014	66.222	1.00	0.00	C
ATOM 10312	CH2	TRP D 877	80.791	70.565	66.505	1.00	0.00	C
ATOM 10313	N	MET D 878	86.024	71.383	66.076	1.00	0.00	N
ATOM 10314	CA	MET D 878	85.809	70.739	67.338	1.00	0.00	C
ATOM 10315	C	MET D 878	86.533	71.475	68.418	1.00	0.00	C
ATOM 10316	O	MET D 878	85.978	71.723	69.487	1.00	0.00	O
ATOM 10317	CB	MET D 878	86.333	69.293	67.356	1.00	0.00	C
ATOM 10318	CG	MET D 878	85.630	68.375	66.354	1.00	0.00	C
ATOM 10319	SD	MET D 878	86.227	66.656	66.350	1.00	0.00	S
ATOM 10320	CE	MET D 878	87.846	67.058	65.627	1.00	0.00	C
ATOM 10321	N	VAL D 879	87.795	71.864	68.162	1.00	0.00	N
ATOM 10322	CA	VAL D 879	88.573	72.525	69.170	1.00	0.00	C
ATOM 10323	C	VAL D 879	87.943	73.839	69.502	1.00	0.00	C
ATOM 10324	O	VAL D 879	87.879	74.226	70.667	1.00	0.00	O
ATOM 10325	CB	VAL D 879	89.994	72.788	68.763	1.00	0.00	C
ATOM 10326	CG1	VAL D 879	90.009	73.756	67.570	1.00	0.00	C
ATOM 10327	CG2	VAL D 879	90.745	73.322	69.993	1.00	0.00	C
ATOM 10328	N	ALA D 880	87.451	74.556	68.476	1.00	0.00	N
ATOM 10329	CA	ALA D 880	86.884	75.858	68.679	1.00	0.00	C
ATOM 10330	C	ALA D 880	85.694	75.734	69.573	1.00	0.00	C
ATOM 10331	O	ALA D 880	85.496	76.541	70.478	1.00	0.00	O
ATOM 10332	CB	ALA D 880	86.406	76.505	67.367	1.00	0.00	C
ATOM 10333	N	PHE D 881	84.865	74.705	69.344	1.00	0.00	N

ATOM 10334	CA	PHE D 881	83.682	74.529	70.130	1.00	0.00	C
ATOM 10335	C	PHE D 881	84.101	74.281	71.542	1.00	0.00	C
ATOM 10336	O	PHE D 881	83.540	74.851	72.478	1.00	0.00	O
ATOM 10337	CB	PHE D 881	82.854	73.319	69.662	1.00	0.00	C
ATOM 10338	CG	PHE D 881	81.642	73.188	70.515	1.00	0.00	C
ATOM 10339	CD1	PHE D 881	80.526	73.957	70.269	1.00	0.00	C
ATOM 10340	CD2	PHE D 881	81.607	72.287	71.554	1.00	0.00	C
ATOM 10341	CE1	PHE D 881	79.402	73.837	71.052	1.00	0.00	C
ATOM 10342	CE2	PHE D 881	80.486	72.163	72.340	1.00	0.00	C
ATOM 10343	CZ	PHE D 881	79.380	72.937	72.092	1.00	0.00	C
ATOM 10344	N	GLY D 882	85.127	73.431	71.726	1.00	0.00	N
ATOM 10345	CA	GLY D 882	85.557	73.060	73.037	1.00	0.00	C
ATOM 10346	C	GLY D 882	86.027	74.268	73.782	1.00	0.00	C
ATOM 10347	O	GLY D 882	85.725	74.424	74.965	1.00	0.00	O
ATOM 10348	N	VAL D 883	86.797	75.152	73.122	1.00	0.00	N
ATOM 10349	CA	VAL D 883	87.281	76.300	73.824	1.00	0.00	C
ATOM 10350	C	VAL D 883	86.118	77.156	74.208	1.00	0.00	C
ATOM 10351	O	VAL D 883	86.079	77.710	75.304	1.00	0.00	O
ATOM 10352	CB	VAL D 883	88.280	77.124	73.060	1.00	0.00	C
ATOM 10353	CG1	VAL D 883	89.527	76.260	72.820	1.00	0.00	C
ATOM 10354	CG2	VAL D 883	87.646	77.647	71.767	1.00	0.00	C
ATOM 10355	N	ALA D 884	85.122	77.275	73.314	1.00	0.00	N
ATOM 10356	CA	ALA D 884	83.990	78.112	73.596	1.00	0.00	C
ATOM 10357	C	ALA D 884	83.288	77.580	74.806	1.00	0.00	C
ATOM 10358	O	ALA D 884	82.892	78.340	75.688	1.00	0.00	O
ATOM 10359	CB	ALA D 884	82.971	78.133	72.444	1.00	0.00	C
ATOM 10360	N	ARG D 885	83.123	76.247	74.888	1.00	0.00	N
ATOM 10361	CA	ARG D 885	82.411	75.653	75.982	1.00	0.00	C
ATOM 10362	C	ARG D 885	83.147	75.913	77.254	1.00	0.00	C
ATOM 10363	O	ARG D 885	82.542	76.242	78.273	1.00	0.00	O
ATOM 10364	CB	ARG D 885	82.274	74.127	75.856	1.00	0.00	C
ATOM 10365	CG	ARG D 885	81.363	73.683	74.710	1.00	0.00	C
ATOM 10366	CD	ARG D 885	79.926	73.380	75.142	1.00	0.00	C
ATOM 10367	NE	ARG D 885	79.216	74.678	75.321	1.00	0.00	N
ATOM 10368	CZ	ARG D 885	79.171	75.269	76.552	1.00	0.00	C
ATOM 10369	NH1	ARG D 885	79.777	74.672	77.618	1.00	0.00	N
ATOM 10370	NH2	ARG D 885	78.517	76.456	76.719	1.00	0.00	N
ATOM 10371	N	GLN D 886	84.484	75.784	77.228	1.00	0.00	N
ATOM 10372	CA	GLN D 886	85.218	75.956	78.443	1.00	0.00	C
ATOM 10373	C	GLN D 886	85.009	77.355	78.912	1.00	0.00	C
ATOM 10374	O	GLN D 886	84.813	77.594	80.103	1.00	0.00	O
ATOM 10375	CB	GLN D 886	86.727	75.763	78.268	1.00	0.00	C
ATOM 10376	CG	GLN D 886	87.489	75.818	79.590	1.00	0.00	C
ATOM 10377	CD	GLN D 886	88.959	75.900	79.235	1.00	0.00	C

ATOM 10378	NE2	GLN D 886	89.851	75.577	80.210	1.00	0.00	N
ATOM 10379	OE1	GLN D 886	89.299	76.266	78.111	1.00	0.00	O
ATOM 10380	N	GLY D 887	85.034	78.322	77.977	1.00	0.00	N
ATOM 10381	CA	GLY D 887	84.886	79.696	78.355	1.00	0.00	C
ATOM 10382	C	GLY D 887	83.536	79.887	78.968	1.00	0.00	C
ATOM 10383	O	GLY D 887	83.390	80.585	79.971	1.00	0.00	O
ATOM 10384	N	ILE D 888	82.504	79.274	78.365	1.00	0.00	N
ATOM 10385	CA	ILE D 888	81.164	79.430	78.841	1.00	0.00	C
ATOM 10386	C	ILE D 888	81.033	78.837	80.207	1.00	0.00	C
ATOM 10387	O	ILE D 888	80.441	79.444	81.099	1.00	0.00	O
ATOM 10388	CB	ILE D 888	80.155	78.739	77.969	1.00	0.00	C
ATOM 10389	CG1	ILE D 888	80.141	79.360	76.564	1.00	0.00	C
ATOM 10390	CG2	ILE D 888	78.796	78.794	78.685	1.00	0.00	C
ATOM 10391	CD1	ILE D 888	79.756	80.839	76.554	1.00	0.00	C
ATOM 10392	N	LEU D 889	81.603	77.637	80.413	1.00	0.00	N
ATOM 10393	CA	LEU D 889	81.394	76.936	81.643	1.00	0.00	C
ATOM 10394	C	LEU D 889	81.912	77.729	82.799	1.00	0.00	C
ATOM 10395	O	LEU D 889	81.195	77.952	83.772	1.00	0.00	O
ATOM 10396	CB	LEU D 889	82.120	75.576	81.684	1.00	0.00	C
ATOM 10397	CG	LEU D 889	81.659	74.587	80.600	1.00	0.00	C
ATOM 10398	CD1	LEU D 889	82.417	73.254	80.701	1.00	0.00	C
ATOM 10399	CD2	LEU D 889	80.132	74.410	80.612	1.00	0.00	C
ATOM 10400	N	ARG D 890	83.170	78.198	82.722	1.00	0.00	N
ATOM 10401	CA	ARG D 890	83.709	78.899	83.846	1.00	0.00	C
ATOM 10402	C	ARG D 890	84.913	79.634	83.363	1.00	0.00	C
ATOM 10403	O	ARG D 890	85.296	79.522	82.200	1.00	0.00	O
ATOM 10404	CB	ARG D 890	84.181	77.955	84.965	1.00	0.00	C
ATOM 10405	CG	ARG D 890	85.280	76.994	84.501	1.00	0.00	C
ATOM 10406	CD	ARG D 890	85.641	75.909	85.515	1.00	0.00	C
ATOM 10407	NE	ARG D 890	84.702	74.770	85.314	1.00	0.00	N
ATOM 10408	CZ	ARG D 890	83.565	74.675	86.064	1.00	0.00	C
ATOM 10409	NH1	ARG D 890	83.294	75.617	87.015	1.00	0.00	N
ATOM 10410	NH2	ARG D 890	82.705	73.634	85.868	1.00	0.00	N
ATOM 10411	N	GLN D 891	85.540	80.429	84.250	1.00	0.00	N
ATOM 10412	CA	GLN D 891	86.724	81.111	83.833	1.00	0.00	C
ATOM 10413	C	GLN D 891	87.783	80.076	83.670	1.00	0.00	C
ATOM 10414	O	GLN D 891	87.778	79.050	84.350	1.00	0.00	O
ATOM 10415	CB	GLN D 891	87.217	82.194	84.811	1.00	0.00	C
ATOM 10416	CG	GLN D 891	87.544	81.680	86.213	1.00	0.00	C
ATOM 10417	CD	GLN D 891	86.241	81.645	86.994	1.00	0.00	C
ATOM 10418	NE2	GLN D 891	85.264	82.492	86.572	1.00	0.00	N
ATOM 10419	OE1	GLN D 891	86.093	80.890	87.954	1.00	0.00	O
ATOM 10420	N	ASN D 892	88.709	80.308	82.722	1.00	0.00	N
ATOM 10421	CA	ASN D 892	89.744	79.353	82.473	1.00	0.00	C

ATOM 10422	C	ASN D 892	90.621	79.379	83.664	1.00	0.00	C
ATOM 10423	O	ASN D 892	90.800	80.416	84.301	1.00	0.00	O
ATOM 10424	CB	ASN D 892	90.613	79.708	81.256	1.00	0.00	C
ATOM 10425	CG	ASN D 892	89.717	79.684	80.030	1.00	0.00	C
ATOM 10426	ND2	ASN D 892	89.868	78.628	79.188	1.00	0.00	N
ATOM 10427	OD1	ASN D 892	88.903	80.582	79.820	1.00	0.00	O
ATOM 10428	N	GLU D 893	91.198	78.223	84.020	1.00	0.00	N
ATOM 10429	CA	GLU D 893	92.026	78.300	85.175	1.00	0.00	C
ATOM 10430	C	GLU D 893	93.362	78.808	84.721	1.00	0.00	C
ATOM 10431	O	GLU D 893	94.089	78.074	84.035	1.00	0.00	O
ATOM 10432	CB	GLU D 893	92.213	76.957	85.873	1.00	0.00	C
ATOM 10433	CG	GLU D 893	92.876	77.020	87.241	1.00	0.00	C
ATOM 10434	CD	GLU D 893	91.808	77.349	88.274	1.00	0.00	C
ATOM 10435	OE1	GLU D 893	90.612	77.417	87.891	1.00	0.00	O
ATOM 10436	OE2	GLU D 893	92.177	77.533	89.467	1.00	0.00	O
ATOM 10437	N	GLN D 894	93.661	80.096	85.079	1.00	0.00	N
ATOM 10438	CA	GLN D 894	94.870	80.814	84.757	1.00	0.00	C
ATOM 10439	C	GLN D 894	96.001	80.186	85.492	1.00	0.00	C
ATOM 10440	O	GLN D 894	97.069	79.950	84.927	1.00	0.00	O
ATOM 10441	CB	GLN D 894	94.821	82.301	85.145	1.00	0.00	C
ATOM 10442	CG	GLN D 894	94.729	82.557	86.650	1.00	0.00	C
ATOM 10443	CD	GLN D 894	94.692	84.063	86.860	1.00	0.00	C
ATOM 10444	NE2	GLN D 894	93.670	84.733	86.258	1.00	0.00	N
ATOM 10445	OE1	GLN D 894	95.548	84.630	87.534	1.00	0.00	O
ATOM 10446	N	ARG D 895	95.787	79.893	86.786	1.00	0.00	N
ATOM 10447	CA	ARG D 895	96.830	79.260	87.528	1.00	0.00	C
ATOM 10448	C	ARG D 895	97.062	77.934	86.898	1.00	0.00	C
ATOM 10449	O	ARG D 895	98.203	77.541	86.664	1.00	0.00	O
ATOM 10450	CB	ARG D 895	96.470	78.994	88.996	1.00	0.00	C
ATOM 10451	CG	ARG D 895	96.473	80.244	89.879	1.00	0.00	C
ATOM 10452	CD	ARG D 895	97.840	80.933	89.931	1.00	0.00	C
ATOM 10453	NE	ARG D 895	97.841	81.848	91.105	1.00	0.00	N
ATOM 10454	CZ	ARG D 895	97.294	83.098	91.015	1.00	0.00	C
ATOM 10455	NH1	ARG D 895	96.681	83.498	89.865	1.00	0.00	N
ATOM 10456	NH2	ARG D 895	97.361	83.944	92.084	1.00	0.00	N
ATOM 10457	N	TRP D 896	95.971	77.210	86.585	1.00	0.00	N
ATOM 10458	CA	TRP D 896	96.167	75.908	86.024	1.00	0.00	C
ATOM 10459	C	TRP D 896	95.705	75.932	84.608	1.00	0.00	C
ATOM 10460	O	TRP D 896	94.598	75.487	84.293	1.00	0.00	O
ATOM 10461	CB	TRP D 896	95.370	74.834	86.780	1.00	0.00	C
ATOM 10462	CG	TRP D 896	95.860	74.568	88.188	1.00	0.00	C
ATOM 10463	CD1	TRP D 896	96.704	73.595	88.636	1.00	0.00	C
ATOM 10464	CD2	TRP D 896	95.496	75.346	89.341	1.00	0.00	C
ATOM 10465	CE2	TRP D 896	96.145	74.786	90.441	1.00	0.00	C

ATOM 10466	CE3 TRP D 896	94.691	76.437	89.475	1.00	0.00	C
ATOM 10467	NE1 TRP D 896	96.883	73.713	89.994	1.00	0.00	N
ATOM 10468	CZ2 TRP D 896	95.998	75.316	91.692	1.00	0.00	C
ATOM 10469	CZ3 TRP D 896	94.541	76.965	90.739	1.00	0.00	C
ATOM 10470	CH2 TRP D 896	95.180	76.415	91.829	1.00	0.00	C
ATOM 10471	N ARG D 897	96.550	76.465	83.707	1.00	0.00	N
ATOM 10472	CA ARG D 897	96.208	76.491	82.318	1.00	0.00	C
ATOM 10473	C ARG D 897	96.241	75.092	81.807	1.00	0.00	C
ATOM 10474	O ARG D 897	95.385	74.668	81.035	1.00	0.00	O
ATOM 10475	CB ARG D 897	97.197	77.287	81.460	1.00	0.00	C
ATOM 10476	CG ARG D 897	96.711	77.401	80.016	1.00	0.00	C
ATOM 10477	CD ARG D 897	97.750	77.911	79.024	1.00	0.00	C
ATOM 10478	NE ARG D 897	97.031	78.144	77.741	1.00	0.00	N
ATOM 10479	CZ ARG D 897	97.641	77.905	76.543	1.00	0.00	C
ATOM 10480	NH1 ARG D 897	98.910	77.400	76.506	1.00	0.00	N
ATOM 10481	NH2 ARG D 897	96.976	78.169	75.379	1.00	0.00	N
ATOM 10482	N TRP D 898	97.256	74.336	82.255	1.00	0.00	N
ATOM 10483	CA TRP D 898	97.473	73.011	81.761	1.00	0.00	C
ATOM 10484	C TRP D 898	96.311	72.138	82.086	1.00	0.00	C
ATOM 10485	O TRP D 898	95.763	71.475	81.204	1.00	0.00	O
ATOM 10486	CB TRP D 898	98.697	72.325	82.391	1.00	0.00	C
ATOM 10487	CG TRP D 898	100.018	72.972	82.067	1.00	0.00	C
ATOM 10488	CD1 TRP D 898	100.846	73.701	82.868	1.00	0.00	C
ATOM 10489	CD2 TRP D 898	100.639	72.923	80.774	1.00	0.00	C
ATOM 10490	CE2 TRP D 898	101.832	73.637	80.864	1.00	0.00	C
ATOM 10491	CE3 TRP D 898	100.242	72.340	79.606	1.00	0.00	C
ATOM 10492	NE1 TRP D 898	101.948	74.107	82.158	1.00	0.00	N
ATOM 10493	CZ2 TRP D 898	102.653	73.776	79.784	1.00	0.00	C
ATOM 10494	CZ3 TRP D 898	101.075	72.481	78.518	1.00	0.00	C
ATOM 10495	CH2 TRP D 898	102.257	73.185	78.606	1.00	0.00	C
ATOM 10496	N ILE D 899	95.891	72.113	83.363	1.00	0.00	N
ATOM 10497	CA ILE D 899	94.861	71.181	83.711	1.00	0.00	C
ATOM 10498	C ILE D 899	93.594	71.540	83.010	1.00	0.00	C
ATOM 10499	O ILE D 899	92.934	70.673	82.440	1.00	0.00	O
ATOM 10500	CB ILE D 899	94.604	71.080	85.190	1.00	0.00	C
ATOM 10501	CG1 ILE D 899	93.675	69.894	85.496	1.00	0.00	C
ATOM 10502	CG2 ILE D 899	94.076	72.426	85.690	1.00	0.00	C
ATOM 10503	CD1 ILE D 899	93.576	69.566	86.986	1.00	0.00	C
ATOM 10504	N PHE D 900	93.226	72.834	83.014	1.00	0.00	N
ATOM 10505	CA PHE D 900	91.999	73.222	82.386	1.00	0.00	C
ATOM 10506	C PHE D 900	92.058	72.963	80.921	1.00	0.00	C
ATOM 10507	O PHE D 900	91.098	72.450	80.355	1.00	0.00	O
ATOM 10508	CB PHE D 900	91.652	74.692	82.649	1.00	0.00	C
ATOM 10509	CG PHE D 900	91.088	74.707	84.026	1.00	0.00	C

ATOM 10510	CD1 PHE D 900	91.809	74.189	85.074	1.00	0.00	C
ATOM 10511	CD2 PHE D 900	89.810	75.158	84.255	1.00	0.00	C
ATOM 10512	CE1 PHE D 900	91.297	74.194	86.350	1.00	0.00	C
ATOM 10513	CE2 PHE D 900	89.291	75.164	85.530	1.00	0.00	C
ATOM 10514	CZ PHE D 900	90.037	74.690	86.581	1.00	0.00	C
ATOM 10515	N ARG D 901	93.185	73.301	80.264	1.00	0.00	N
ATOM 10516	CA ARG D 901	93.249	73.099	78.841	1.00	0.00	C
ATOM 10517	C ARG D 901	93.111	71.641	78.550	1.00	0.00	C
ATOM 10518	O ARG D 901	92.367	71.248	77.655	1.00	0.00	O
ATOM 10519	CB ARG D 901	94.569	73.561	78.202	1.00	0.00	C
ATOM 10520	CG ARG D 901	94.544	73.455	76.672	1.00	0.00	C
ATOM 10521	CD ARG D 901	95.833	73.905	75.986	1.00	0.00	C
ATOM 10522	NE ARG D 901	96.680	72.698	75.779	1.00	0.00	N
ATOM 10523	CZ ARG D 901	97.580	72.322	76.733	1.00	0.00	C
ATOM 10524	NH1 ARG D 901	97.716	73.063	77.873	1.00	0.00	N
ATOM 10525	NH2 ARG D 901	98.344	71.205	76.549	1.00	0.00	N
ATOM 10526	N SER D 902	93.822	70.794	79.318	1.00	0.00	N
ATOM 10527	CA SER D 902	93.780	69.382	79.060	1.00	0.00	C
ATOM 10528	C SER D 902	92.379	68.915	79.263	1.00	0.00	C
ATOM 10529	O SER D 902	91.863	68.108	78.493	1.00	0.00	O
ATOM 10530	CB SER D 902	94.689	68.580	80.013	1.00	0.00	C
ATOM 10531	OG SER D 902	94.228	68.701	81.353	1.00	0.00	O
ATOM 10532	N VAL D 903	91.718	69.443	80.305	1.00	0.00	N
ATOM 10533	CA VAL D 903	90.378	69.042	80.607	1.00	0.00	C
ATOM 10534	C VAL D 903	89.513	69.434	79.457	1.00	0.00	C
ATOM 10535	O VAL D 903	88.576	68.720	79.107	1.00	0.00	O
ATOM 10536	CB VAL D 903	89.827	69.705	81.834	1.00	0.00	C
ATOM 10537	CG1 VAL D 903	88.333	69.356	81.952	1.00	0.00	C
ATOM 10538	CG2 VAL D 903	90.661	69.257	83.044	1.00	0.00	C
ATOM 10539	N ILE D 904	89.804	70.595	78.841	1.00	0.00	N
ATOM 10540	CA ILE D 904	88.983	71.065	77.767	1.00	0.00	C
ATOM 10541	C ILE D 904	89.082	70.083	76.646	1.00	0.00	C
ATOM 10542	O ILE D 904	88.086	69.726	76.021	1.00	0.00	O
ATOM 10543	CB ILE D 904	89.535	72.273	77.071	1.00	0.00	C
ATOM 10544	CG1 ILE D 904	90.025	73.366	78.015	1.00	0.00	C
ATOM 10545	CG2 ILE D 904	88.430	72.781	76.134	1.00	0.00	C
ATOM 10546	CD1 ILE D 904	91.002	74.298	77.299	1.00	0.00	C
ATOM 10547	N TYR D 905	90.325	69.698	76.297	1.00	0.00	N
ATOM 10548	CA TYR D 905	90.523	68.858	75.153	1.00	0.00	C
ATOM 10549	C TYR D 905	90.121	67.420	75.311	1.00	0.00	C
ATOM 10550	O TYR D 905	89.276	66.927	74.566	1.00	0.00	O
ATOM 10551	CB TYR D 905	91.984	68.860	74.675	1.00	0.00	C
ATOM 10552	CG TYR D 905	92.248	70.193	74.067	1.00	0.00	C
ATOM 10553	CD1 TYR D 905	92.474	71.299	74.850	1.00	0.00	C

ATOM 10554	CD2 TYR D 905	92.271	70.326	72.696	1.00	0.00	C
ATOM 10555	CE1 TYR D 905	92.711	72.525	74.270	1.00	0.00	C
ATOM 10556	CE2 TYR D 905	92.510	71.546	72.116	1.00	0.00	C
ATOM 10557	CZ TYR D 905	92.731	72.649	72.903	1.00	0.00	C
ATOM 10558	OH TYR D 905	92.974	73.905	72.308	1.00	0.00	O
ATOM 10559	N GLU D 906	90.672	66.713	76.314	1.00	0.00	N
ATOM 10560	CA GLU D 906	90.524	65.282	76.287	1.00	0.00	C
ATOM 10561	C GLU D 906	89.126	64.799	76.504	1.00	0.00	C
ATOM 10562	O GLU D 906	88.645	63.988	75.715	1.00	0.00	O
ATOM 10563	CB GLU D 906	91.452	64.548	77.271	1.00	0.00	C
ATOM 10564	CG GLU D 906	91.425	63.033	77.076	1.00	0.00	C
ATOM 10565	CD GLU D 906	91.990	62.746	75.692	1.00	0.00	C
ATOM 10566	OE1 GLU D 906	93.057	63.329	75.360	1.00	0.00	O
ATOM 10567	OE2 GLU D 906	91.360	61.950	74.947	1.00	0.00	O
ATOM 10568	N PRO D 907	88.429	65.234	77.512	1.00	0.00	N
ATOM 10569	CA PRO D 907	87.111	64.698	77.690	1.00	0.00	C
ATOM 10570	C PRO D 907	86.191	65.157	76.612	1.00	0.00	C
ATOM 10571	O PRO D 907	85.243	64.442	76.292	1.00	0.00	O
ATOM 10572	CB PRO D 907	86.685	65.101	79.100	1.00	0.00	C
ATOM 10573	CG PRO D 907	88.019	65.197	79.860	1.00	0.00	C
ATOM 10574	CD PRO D 907	89.047	65.581	78.785	1.00	0.00	C
ATOM 10575	N TYR D 908	86.438	66.359	76.067	1.00	0.00	N
ATOM 10576	CA TYR D 908	85.594	66.909	75.050	1.00	0.00	C
ATOM 10577	C TYR D 908	85.704	66.149	73.776	1.00	0.00	C
ATOM 10578	O TYR D 908	84.706	65.958	73.082	1.00	0.00	O
ATOM 10579	CB TYR D 908	85.783	68.421	74.844	1.00	0.00	C
ATOM 10580	CG TYR D 908	85.045	69.035	75.992	1.00	0.00	C
ATOM 10581	CD1 TYR D 908	83.711	69.346	75.861	1.00	0.00	C
ATOM 10582	CD2 TYR D 908	85.659	69.275	77.199	1.00	0.00	C
ATOM 10583	CE1 TYR D 908	83.009	69.903	76.903	1.00	0.00	C
ATOM 10584	CE2 TYR D 908	84.968	69.833	78.247	1.00	0.00	C
ATOM 10585	CZ TYR D 908	83.640	70.149	78.099	1.00	0.00	C
ATOM 10586	OH TYR D 908	82.922	70.722	79.170	1.00	0.00	O
ATOM 10587	N LEU D 909	86.914	65.716	73.383	1.00	0.00	N
ATOM 10588	CA LEU D 909	86.920	64.915	72.197	1.00	0.00	C
ATOM 10589	C LEU D 909	86.170	63.655	72.504	1.00	0.00	C
ATOM 10590	O LEU D 909	85.388	63.173	71.687	1.00	0.00	O
ATOM 10591	CB LEU D 909	88.325	64.527	71.696	1.00	0.00	C
ATOM 10592	CG LEU D 909	89.064	65.654	70.947	1.00	0.00	C
ATOM 10593	CD1 LEU D 909	88.328	66.013	69.646	1.00	0.00	C
ATOM 10594	CD2 LEU D 909	89.325	66.880	71.830	1.00	0.00	C
ATOM 10595	N ALA D 910	86.395	63.097	73.711	1.00	0.00	N
ATOM 10596	CA ALA D 910	85.826	61.836	74.092	1.00	0.00	C
ATOM 10597	C ALA D 910	84.324	61.847	74.198	1.00	0.00	C

ATOM 10598	O	ALA D 910	83.667	60.994	73.606	1.00	0.00	O
ATOM 10599	CB	ALA D 910	86.374	61.341	75.442	1.00	0.00	C
ATOM 10600	N	MET D 911	83.718	62.813	74.922	1.00	0.00	N
ATOM 10601	CA	MET D 911	82.290	62.714	75.093	1.00	0.00	C
ATOM 10602	C	MET D 911	81.769	64.053	75.476	1.00	0.00	C
ATOM 10603	O	MET D 911	82.384	65.081	75.211	1.00	0.00	O
ATOM 10604	CB	MET D 911	81.834	61.792	76.239	1.00	0.00	C
ATOM 10605	CG	MET D 911	82.184	60.310	76.098	1.00	0.00	C
ATOM 10606	SD	MET D 911	83.897	59.876	76.518	1.00	0.00	S
ATOM 10607	CE	MET D 911	83.580	58.091	76.599	1.00	0.00	C
ATOM 10608	N	PHE D 912	80.562	64.076	76.077	1.00	0.00	N
ATOM 10609	CA	PHE D 912	80.076	65.350	76.498	1.00	0.00	C
ATOM 10610	C	PHE D 912	79.431	65.173	77.832	1.00	0.00	C
ATOM 10611	O	PHE D 912	78.519	64.360	77.979	1.00	0.00	O
ATOM 10612	CB	PHE D 912	79.063	65.931	75.503	1.00	0.00	C
ATOM 10613	CG	PHE D 912	79.817	65.991	74.218	1.00	0.00	C
ATOM 10614	CD1	PHE D 912	79.858	64.891	73.389	1.00	0.00	C
ATOM 10615	CD2	PHE D 912	80.503	67.124	73.849	1.00	0.00	C
ATOM 10616	CE1	PHE D 912	80.557	64.923	72.208	1.00	0.00	C
ATOM 10617	CE2	PHE D 912	81.203	67.162	72.667	1.00	0.00	C
ATOM 10618	CZ	PHE D 912	81.230	66.063	71.846	1.00	0.00	C
ATOM 10619	N	GLY D 913	79.891	65.921	78.860	1.00	0.00	N
ATOM 10620	CA	GLY D 913	81.018	66.813	78.792	1.00	0.00	C
ATOM 10621	C	GLY D 913	82.010	66.391	79.843	1.00	0.00	C
ATOM 10622	O	GLY D 913	82.279	65.207	80.038	1.00	0.00	O
ATOM 10623	N	GLN D 914	82.590	67.385	80.552	1.00	0.00	N
ATOM 10624	CA	GLN D 914	83.531	67.145	81.614	1.00	0.00	C
ATOM 10625	C	GLN D 914	82.746	66.810	82.840	1.00	0.00	C
ATOM 10626	O	GLN D 914	81.524	66.959	82.841	1.00	0.00	O
ATOM 10627	CB	GLN D 914	84.412	68.369	81.927	1.00	0.00	C
ATOM 10628	CG	GLN D 914	85.335	68.196	83.132	1.00	0.00	C
ATOM 10629	CD	GLN D 914	86.287	67.046	82.854	1.00	0.00	C
ATOM 10630	NE2	GLN D 914	87.062	66.639	83.895	1.00	0.00	N
ATOM 10631	OE1	GLN D 914	86.339	66.520	81.743	1.00	0.00	O
ATOM 10632	N	VAL D 915	83.419	66.265	83.882	1.00	0.00	N
ATOM 10633	CA	VAL D 915	82.771	65.996	85.136	1.00	0.00	C
ATOM 10634	C	VAL D 915	83.537	66.656	86.253	1.00	0.00	C
ATOM 10635	O	VAL D 915	84.510	66.121	86.775	1.00	0.00	O
ATOM 10636	CB	VAL D 915	82.657	64.527	85.440	1.00	0.00	C
ATOM 10637	CG1	VAL D 915	81.609	63.913	84.499	1.00	0.00	C
ATOM 10638	CG2	VAL D 915	84.040	63.882	85.267	1.00	0.00	C
ATOM 10639	N	PRO D 916	83.134	68.772	85.471	1.00	0.00	N
ATOM 10640	CA	PRO D 916	83.824	69.383	86.577	1.00	0.00	C
ATOM 10641	C	PRO D 916	83.380	68.719	87.838	1.00	0.00	C

ATOM 10642	O	PRO D 916	82.291	68.150	87.861	1.00	0.00	O
ATOM 10643	CB	PRO D 916	83.489	70.869	86.511	1.00	0.00	C
ATOM 10644	CG	PRO D 916	83.228	71.114	85.014	1.00	0.00	C
ATOM 10645	CD	PRO D 916	82.703	69.760	84.496	1.00	0.00	C
ATOM 10646	N	SER D 917	84.204	68.771	88.896	1.00	0.00	N
ATOM 10647	CA	SER D 917	83.775	68.154	90.113	1.00	0.00	C
ATOM 10648	C	SER D 917	82.604	68.945	90.584	1.00	0.00	C
ATOM 10649	O	SER D 917	82.373	70.064	90.126	1.00	0.00	O
ATOM 10650	CB	SER D 917	84.836	68.166	91.226	1.00	0.00	C
ATOM 10651	OG	SER D 917	85.946	67.370	90.841	1.00	0.00	O
ATOM 10652	N	ASP D 918	81.837	68.382	91.534	1.00	0.00	N
ATOM 10653	CA	ASP D 918	80.626	69.019	91.969	1.00	0.00	C
ATOM 10654	C	ASP D 918	80.929	70.399	92.446	1.00	0.00	C
ATOM 10655	O	ASP D 918	82.007	70.687	92.961	1.00	0.00	O
ATOM 10656	CB	ASP D 918	79.898	68.267	93.096	1.00	0.00	C
ATOM 10657	CG	ASP D 918	79.268	67.018	92.498	1.00	0.00	C
ATOM 10658	OD1	ASP D 918	79.247	66.904	91.245	1.00	0.00	O
ATOM 10659	OD2	ASP D 918	78.797	66.159	93.288	1.00	0.00	O
ATOM 10660	N	VAL D 919	79.942	71.300	92.263	1.00	0.00	N
ATOM 10661	CA	VAL D 919	80.117	72.679	92.597	1.00	0.00	C
ATOM 10662	C	VAL D 919	79.927	72.851	94.063	1.00	0.00	C
ATOM 10663	O	VAL D 919	78.846	72.635	94.609	1.00	0.00	O
ATOM 10664	CB	VAL D 919	79.167	73.581	91.859	1.00	0.00	C
ATOM 10665	CG1	VAL D 919	77.721	73.147	92.161	1.00	0.00	C
ATOM 10666	CG2	VAL D 919	79.475	75.033	92.249	1.00	0.00	C
ATOM 10667	N	ASP D 920	81.016	73.250	94.741	1.00	0.00	N
ATOM 10668	CA	ASP D 920	80.938	73.483	96.148	1.00	0.00	C
ATOM 10669	C	ASP D 920	80.555	74.907	96.301	1.00	0.00	C
ATOM 10670	O	ASP D 920	81.389	75.805	96.187	1.00	0.00	O
ATOM 10671	CB	ASP D 920	82.278	73.311	96.881	1.00	0.00	C
ATOM 10672	CG	ASP D 920	82.032	73.590	98.356	1.00	0.00	C
ATOM 10673	OD1	ASP D 920	80.838	73.616	98.760	1.00	0.00	O
ATOM 10674	OD2	ASP D 920	83.030	73.789	99.096	1.00	0.00	O
ATOM 10675	N	GLY D 921	79.264	75.159	96.555	1.00	0.00	N
ATOM 10676	CA	GLY D 921	78.898	76.520	96.738	1.00	0.00	C
ATOM 10677	C	GLY D 921	79.488	76.874	98.053	1.00	0.00	C
ATOM 10678	O	GLY D 921	79.983	76.012	98.776	1.00	0.00	O
ATOM 10679	N	THR D 922	79.493	78.167	98.392	1.00	0.00	N
ATOM 10680	CA	THR D 922	79.978	78.509	99.687	1.00	0.00	C
ATOM 10681	C	THR D 922	78.980	77.915	100.622	1.00	0.00	C
ATOM 10682	O	THR D 922	79.296	77.552	101.754	1.00	0.00	O
ATOM 10683	CB	THR D 922	80.029	79.985	99.934	1.00	0.00	C
ATOM 10684	CG2	THR D 922	78.595	80.537	99.977	1.00	0.00	C
ATOM 10685	OG1	THR D 922	80.698	80.252	101.158	1.00	0.00	O

ATOM 10686	N	THR D 923	77.731	77.809	100.130	1.00	0.00	N
ATOM 10687	CA	THR D 923	76.592	77.359	100.872	1.00	0.00	C
ATOM 10688	C	THR D 923	76.712	75.894	101.145	1.00	0.00	C
ATOM 10689	O	THR D 923	77.445	75.174	100.469	1.00	0.00	O
ATOM 10690	CB	THR D 923	75.318	77.583	100.111	1.00	0.00	C
ATOM 10691	CG2	THR D 923	74.116	77.167	100.977	1.00	0.00	C
ATOM 10692	OG1	THR D 923	75.205	78.953	99.768	1.00	0.00	O
ATOM 10693	N	TYR D 924	75.978	75.423	102.173	1.00	0.00	N
ATOM 10694	CA	TYR D 924	75.995	74.036	102.522	1.00	0.00	C
ATOM 10695	C	TYR D 924	74.687	73.488	102.065	1.00	0.00	C
ATOM 10696	O	TYR D 924	73.623	73.940	102.486	1.00	0.00	O
ATOM 10697	CB	TYR D 924	76.080	73.781	104.040	1.00	0.00	C
ATOM 10698	CG	TYR D 924	77.360	74.361	104.533	1.00	0.00	C
ATOM 10699	CD1	TYR D 924	77.434	75.697	104.855	1.00	0.00	C
ATOM 10700	CD2	TYR D 924	78.482	73.578	104.679	1.00	0.00	C
ATOM 10701	CE1	TYR D 924	78.608	76.244	105.314	1.00	0.00	C
ATOM 10702	CE2	TYR D 924	79.660	74.120	105.138	1.00	0.00	C
ATOM 10703	CZ	TYR D 924	79.726	75.455	105.455	1.00	0.00	C
ATOM 10704	OH	TYR D 924	80.932	76.015	105.926	1.00	0.00	O
ATOM 10705	N	ASP D 925	74.758	72.507	101.153	1.00	0.00	N
ATOM 10706	CA	ASP D 925	73.596	71.900	100.595	1.00	0.00	C
ATOM 10707	C	ASP D 925	73.103	70.915	101.599	1.00	0.00	C
ATOM 10708	O	ASP D 925	73.804	70.588	102.556	1.00	0.00	O
ATOM 10709	CB	ASP D 925	73.925	71.119	99.310	1.00	0.00	C
ATOM 10710	CG	ASP D 925	72.650	70.658	98.627	1.00	0.00	C
ATOM 10711	OD1	ASP D 925	71.567	71.219	98.937	1.00	0.00	O
ATOM 10712	OD2	ASP D 925	72.741	69.735	97.777	1.00	0.00	O
ATOM 10713	N	PHE D 926	71.855	70.453	101.419	1.00	0.00	N
ATOM 10714	CA	PHE D 926	71.367	69.415	102.260	1.00	0.00	C
ATOM 10715	C	PHE D 926	71.951	68.179	101.677	1.00	0.00	C
ATOM 10716	O	PHE D 926	72.215	68.117	100.478	1.00	0.00	O
ATOM 10717	CB	PHE D 926	69.831	69.311	102.302	1.00	0.00	C
ATOM 10718	CG	PHE D 926	69.327	69.069	100.921	1.00	0.00	C
ATOM 10719	CD1	PHE D 926	69.308	70.091	100.001	1.00	0.00	C
ATOM 10720	CD2	PHE D 926	68.847	67.833	100.553	1.00	0.00	C
ATOM 10721	CE1	PHE D 926	68.834	69.882	98.727	1.00	0.00	C
ATOM 10722	CE2	PHE D 926	68.372	67.618	99.280	1.00	0.00	C
ATOM 10723	CZ	PHE D 926	68.369	68.642	98.363	1.00	0.00	C
ATOM 10724	N	ALA D 927	72.201	67.162	102.515	1.00	0.00	N
ATOM 10725	CA	ALA D 927	72.836	65.990	102.002	1.00	0.00	C
ATOM 10726	C	ALA D 927	71.937	65.388	100.979	1.00	0.00	C
ATOM 10727	O	ALA D 927	70.721	65.569	101.010	1.00	0.00	O
ATOM 10728	CB	ALA D 927	73.118	64.922	103.071	1.00	0.00	C
HETATM10729	N	HIE D 928	72.532	64.677	100.011	1.00	0.00	N

HETATM10730	CA	HIE D 928	71.706	64.091	99.013	1.00	0.00	C
HETATM10731	C	HIE D 928	71.185	62.816	99.565	1.00	0.00	C
HETATM10732	O	HIE D 928	71.889	62.096	100.273	1.00	0.00	O
HETATM10733	CB	HIE D 928	72.434	63.791	97.691	1.00	0.00	C
HETATM10734	CG	HIE D 928	71.489	63.323	96.632	1.00	0.00	C
HETATM10735	CD2	HIE D 928	71.476	62.171	95.905	1.00	0.00	C
HETATM10736	ND1	HIE D 928	70.410	64.056	96.200	1.00	0.00	N
HETATM10737	CE1	HIE D 928	69.794	63.316	95.240	1.00	0.00	C
HETATM10738	NE2	HIE D 928	70.406	62.167	95.025	1.00	0.00	N
ATOM 10739	N	CYS D 929	69.910	62.506	99.272	1.00	0.00	N
ATOM 10740	CA	CYS D 929	69.378	61.282	99.772	1.00	0.00	C
ATOM 10741	C	CYS D 929	70.130	60.195	99.084	1.00	0.00	C
ATOM 10742	O	CYS D 929	70.432	60.288	97.895	1.00	0.00	O
ATOM 10743	CB	CYS D 929	67.867	61.114	99.520	1.00	0.00	C
ATOM 10744	SG	CYS D 929	67.422	61.294	97.770	1.00	0.00	S
ATOM 10745	N	THR D 930	70.465	59.131	99.832	1.00	0.00	N
ATOM 10746	CA	THR D 930	71.291	58.099	99.284	1.00	0.00	C
ATOM 10747	C	THR D 930	70.603	57.474	98.115	1.00	0.00	C
ATOM 10748	O	THR D 930	71.214	57.300	97.061	1.00	0.00	O
ATOM 10749	CB	THR D 930	71.640	57.030	100.281	1.00	0.00	C
ATOM 10750	CG2	THR D 930	70.364	56.296	100.731	1.00	0.00	C
ATOM 10751	OG1	THR D 930	72.565	56.119	99.710	1.00	0.00	O
ATOM 10752	N	PHE D 931	69.308	57.138	98.250	1.00	0.00	N
ATOM 10753	CA	PHE D 931	68.641	56.547	97.134	1.00	0.00	C
ATOM 10754	C	PHE D 931	68.408	57.662	96.176	1.00	0.00	C
ATOM 10755	O	PHE D 931	68.190	58.801	96.586	1.00	0.00	O
ATOM 10756	CB	PHE D 931	67.290	55.914	97.506	1.00	0.00	C
ATOM 10757	CG	PHE D 931	67.599	54.838	98.488	1.00	0.00	C
ATOM 10758	CD1	PHE D 931	67.765	55.141	99.818	1.00	0.00	C
ATOM 10759	CD2	PHE D 931	67.731	53.528	98.083	1.00	0.00	C
ATOM 10760	CE1	PHE D 931	68.058	54.156	100.736	1.00	0.00	C
ATOM 10761	CE2	PHE D 931	68.022	52.541	98.997	1.00	0.00	C
ATOM 10762	CZ	PHE D 931	68.184	52.852	100.324	1.00	0.00	C
ATOM 10763	N	THR D 932	68.478	57.377	94.866	1.00	0.00	N
ATOM 10764	CA	THR D 932	68.294	58.436	93.919	1.00	0.00	C
ATOM 10765	C	THR D 932	66.833	58.548	93.636	1.00	0.00	C
ATOM 10766	O	THR D 932	66.014	57.920	94.308	1.00	0.00	O
ATOM 10767	CB	THR D 932	69.016	58.214	92.620	1.00	0.00	C
ATOM 10768	CG2	THR D 932	70.522	58.090	92.911	1.00	0.00	C
ATOM 10769	OG1	THR D 932	68.540	57.043	91.979	1.00	0.00	O
ATOM 10770	N	GLY D 933	66.472	59.393	92.653	1.00	0.00	N
ATOM 10771	CA	GLY D 933	65.095	59.573	92.297	1.00	0.00	C
ATOM 10772	C	GLY D 933	65.046	59.807	90.820	1.00	0.00	C
ATOM 10773	O	GLY D 933	66.027	60.243	90.220	1.00	0.00	O

ATOM 10774	N	ASND 934	63.885	59.517	90.195	1.00	0.00	N
ATOM 10775	CA	ASND 934	63.777	59.643	88.770	1.00	0.00	C
ATOM 10776	C	ASND 934	63.966	61.073	88.362	1.00	0.00	C
ATOM 10777	O	ASND 934	64.868	61.390	87.589	1.00	0.00	O
ATOM 10778	CB	ASND 934	62.398	59.199	88.247	1.00	0.00	C
ATOM 10779	CG	ASND 934	62.456	59.114	86.728	1.00	0.00	C
ATOM 10780	ND2	ASND 934	62.985	60.190	86.085	1.00	0.00	N
ATOM 10781	OD1	ASND 934	62.033	58.128	86.127	1.00	0.00	O
ATOM 10782	N	GLUD 935	63.146	61.993	88.904	1.00	0.00	N
ATOM 10783	CA	GLUD 935	63.294	63.356	88.489	1.00	0.00	C
ATOM 10784	C	GLUD 935	63.737	64.122	89.683	1.00	0.00	C
ATOM 10785	O	GLUD 935	63.426	63.754	90.815	1.00	0.00	O
ATOM 10786	CB	GLUD 935	62.002	64.008	87.977	1.00	0.00	C
ATOM 10787	CG	GLUD 935	62.244	65.418	87.428	1.00	0.00	C
ATOM 10788	CD	GLUD 935	60.916	65.966	86.929	1.00	0.00	C
ATOM 10789	OE1	GLUD 935	60.131	65.172	86.343	1.00	0.00	O
ATOM 10790	OE2	GLUD 935	60.670	67.183	87.127	1.00	0.00	O
ATOM 10791	N	SERD 936	64.502	65.204	89.459	1.00	0.00	N
ATOM 10792	CA	SERD 936	64.978	65.935	90.590	1.00	0.00	C
ATOM 10793	C	SERD 936	64.881	67.391	90.286	1.00	0.00	C
ATOM 10794	O	SERD 936	64.738	67.795	89.131	1.00	0.00	O
ATOM 10795	CB	SERD 936	66.449	65.631	90.919	1.00	0.00	C
ATOM 10796	OG	SERD 936	66.872	66.379	92.049	1.00	0.00	O
ATOM 10797	N	LYSD 937	64.906	68.224	91.346	1.00	0.00	N
ATOM 10798	CA	LYSD 937	64.903	69.639	91.129	1.00	0.00	C
ATOM 10799	C	LYSD 937	66.005	70.206	91.974	1.00	0.00	C
ATOM 10800	O	LYSD 937	65.853	70.457	93.167	1.00	0.00	O
ATOM 10801	CB	LYSD 937	63.582	70.310	91.536	1.00	0.00	C
ATOM 10802	CG	LYSD 937	62.405	69.866	90.664	1.00	0.00	C
ATOM 10803	CD	LYSD 937	62.595	70.173	89.178	1.00	0.00	C
ATOM 10804	CE	LYSD 937	61.417	69.739	88.300	1.00	0.00	C
ATOM 10805	NZ	LYSD 937	61.688	70.076	86.885	1.00	0.00	N1+
ATOM 10806	N	PRO D 938	67.124	70.403	91.341	1.00	0.00	N
ATOM 10807	CA	PRO D 938	68.288	70.954	91.983	1.00	0.00	C
ATOM 10808	C	PRO D 938	68.159	72.439	92.077	1.00	0.00	C
ATOM 10809	O	PRO D 938	67.142	72.978	91.653	1.00	0.00	O
ATOM 10810	CB	PRO D 938	69.494	70.501	91.152	1.00	0.00	C
ATOM 10811	CG	PRO D 938	68.893	69.997	89.832	1.00	0.00	C
ATOM 10812	CD	PRO D 938	67.483	69.538	90.229	1.00	0.00	C
ATOM 10813	N	LEUD 939	69.180	73.117	92.632	1.00	0.00	N
ATOM 10814	CA	LEUD 939	69.117	74.535	92.825	1.00	0.00	C
ATOM 10815	C	LEUD 939	69.065	75.218	91.500	1.00	0.00	C
ATOM 10816	O	LEUD 939	69.915	75.014	90.632	1.00	0.00	O
ATOM 10817	CB	LEUD 939	70.313	75.074	93.618	1.00	0.00	C

ATOM 10818	CG LEU D 939	70.385	74.490	95.041	1.00	0.00	C
ATOM 10819	CD1 LEU D 939	70.646	72.974	95.034	1.00	0.00	C
ATOM 10820	CD2 LEU D 939	71.408	75.244	95.889	1.00	0.00	C
ATOM 10821	N CYS D 940	68.043	76.078	91.333	1.00	0.00	N
ATOM 10822	CA CYS D 940	67.880	76.750	90.085	1.00	0.00	C
ATOM 10823	C CYS D 940	69.010	77.661	89.917	1.00	0.00	C
ATOM 10824	O CYS D 940	69.350	78.469	90.777	1.00	0.00	O
ATOM 10825	CB CYS D 940	66.596	77.583	89.962	1.00	0.00	C
ATOM 10826	SG CYS D 940	65.120	76.539	89.827	1.00	0.00	S
ATOM 10827	N VAL D 941	69.636	77.535	88.757	1.00	0.00	N
ATOM 10828	CA VAL D 941	70.731	78.394	88.545	1.00	0.00	C
ATOM 10829	C VAL D 941	70.582	78.878	87.154	1.00	0.00	C
ATOM 10830	O VAL D 941	69.801	78.344	86.370	1.00	0.00	O
ATOM 10831	CB VAL D 941	72.036	77.684	88.691	1.00	0.00	C
ATOM 10832	CG1 VAL D 941	72.128	77.168	90.139	1.00	0.00	C
ATOM 10833	CG2 VAL D 941	72.105	76.569	87.636	1.00	0.00	C
ATOM 10834	N GLU D 942	71.274	79.979	86.840	1.00	0.00	N
ATOM 10835	CA GLU D 942	71.225	80.467	85.505	1.00	0.00	C
ATOM 10836	C GLU D 942	71.972	79.504	84.630	1.00	0.00	C
ATOM 10837	O GLU D 942	71.611	79.301	83.472	1.00	0.00	O
ATOM 10838	CB GLU D 942	71.863	81.855	85.340	1.00	0.00	C
ATOM 10839	CG GLU D 942	71.792	82.372	83.905	1.00	0.00	C
ATOM 10840	CD GLU D 942	72.298	83.810	83.892	1.00	0.00	C
ATOM 10841	OE1 GLU D 942	72.466	84.386	84.997	1.00	0.00	O
ATOM 10842	OE2 GLU D 942	72.519	84.345	82.772	1.00	0.00	O
ATOM 10843	N LEU D 943	73.049	78.896	85.180	1.00	0.00	N
ATOM 10844	CA LEU D 943	73.944	78.024	84.454	1.00	0.00	C
ATOM 10845	C LEU D 943	73.459	76.595	84.428	1.00	0.00	C
ATOM 10846	O LEU D 943	72.373	76.298	84.919	1.00	0.00	O
ATOM 10847	CB LEU D 943	75.386	78.062	84.983	1.00	0.00	C
ATOM 10848	CG LEU D 943	76.054	79.425	84.730	1.00	0.00	C
ATOM 10849	CD1 LEU D 943	75.322	80.551	85.472	1.00	0.00	C
ATOM 10850	CD2 LEU D 943	77.558	79.382	85.042	1.00	0.00	C
ATOM 10851	N ASP D 944	74.245	75.684	83.785	1.00	0.00	N
ATOM 10852	CA ASP D 944	73.895	74.290	83.573	1.00	0.00	C
ATOM 10853	C ASP D 944	74.736	73.332	84.411	1.00	0.00	C
ATOM 10854	O ASP D 944	75.415	73.759	85.345	1.00	0.00	O
ATOM 10855	CB ASP D 944	74.053	73.863	82.106	1.00	0.00	C
ATOM 10856	CG ASP D 944	73.031	74.641	81.289	1.00	0.00	C
ATOM 10857	OD1 ASP D 944	71.851	74.724	81.728	1.00	0.00	O
ATOM 10858	OD2 ASP D 944	73.416	75.161	80.206	1.00	0.00	O
ATOM 10859	N GLU D 945	74.664	71.993	84.115	1.00	0.00	N
ATOM 10860	CA GLU D 945	75.415	70.967	84.822	1.00	0.00	C
ATOM 10861	C GLU D 945	75.111	69.594	84.236	1.00	0.00	C

ATOM 10862 O GLU D 945	74.574	69.490	83.136	1.00	0.00	O
ATOM 10863 CB GLU D 945	75.120	70.941	86.332	1.00	0.00	C
ATOM 10864 CG GLU D 945	76.136	70.133	87.139	1.00	0.00	C
ATOM 10865 CD GLU D 945	75.769	70.247	88.610	1.00	0.00	C
ATOM 10866 OE1 GLU D 945	74.776	70.961	88.918	1.00	0.00	O
ATOM 10867 OE2 GLU D 945	76.476	69.629	89.449	1.00	0.00	O
HETATM10868 N HIE D 946	75.495	68.479	84.925	1.00	0.00	N
HETATM10869 CA HIE D 946	75.206	67.164	84.395	1.00	0.00	C
HETATM10870 C HIE D 946	74.568	66.324	85.461	1.00	0.00	C
HETATM10871 O HIE D 946	74.907	66.424	86.638	1.00	0.00	O
HETATM10872 CB HIE D 946	76.441	66.396	83.901	1.00	0.00	C
HETATM10873 CG HIE D 946	77.289	65.875	85.018	1.00	0.00	C
HETATM10874 CD2 HIE D 946	77.377	64.615	85.533	1.00	0.00	C
HETATM10875 ND1 HIE D 946	78.167	66.640	85.745	1.00	0.00	N
HETATM10876 CE1 HIE D 946	78.744	65.817	86.660	1.00	0.00	C
HETATM10877 NE2 HIE D 946	78.296	64.579	86.567	1.00	0.00	N
ATOM 10878 N ASN D 947	73.611	65.457	85.063	1.00	0.00	N
ATOM 10879 CA ASN D 947	72.928	64.633	86.022	1.00	0.00	C
ATOM 10880 C ASN D 947	72.605	63.322	85.385	1.00	0.00	C
ATOM 10881 O ASN D 947	73.091	62.985	84.309	1.00	0.00	O
ATOM 10882 CB ASN D 947	71.590	65.226	86.503	1.00	0.00	C
ATOM 10883 CG ASN D 947	71.881	66.458	87.350	1.00	0.00	C
ATOM 10884 ND2 ASN D 947	71.076	67.537	87.146	1.00	0.00	N
ATOM 10885 OD1 ASN D 947	72.796	66.466	88.168	1.00	0.00	O
ATOM 10886 N LEU D 948	71.780	62.532	86.094	1.00	0.00	N
ATOM 10887 CA LEU D 948	71.321	61.250	85.648	1.00	0.00	C
ATOM 10888 C LEU D 948	70.481	61.456	84.417	1.00	0.00	C
ATOM 10889 O LEU D 948	70.579	60.663	83.477	1.00	0.00	O
ATOM 10890 CB LEU D 948	70.426	60.565	86.695	1.00	0.00	C
ATOM 10891 CG LEU D 948	71.102	60.363	88.062	1.00	0.00	C
ATOM 10892 CD1 LEU D 948	70.145	59.676	89.040	1.00	0.00	C
ATOM 10893 CD2 LEU D 948	72.436	59.610	87.935	1.00	0.00	C
ATOM 10894 N PRO D 949	69.659	62.481	84.367	1.00	0.00	N
ATOM 10895 CA PRO D 949	68.849	62.672	83.194	1.00	0.00	C
ATOM 10896 C PRO D 949	69.673	63.092	82.028	1.00	0.00	C
ATOM 10897 O PRO D 949	70.788	63.576	82.225	1.00	0.00	O
ATOM 10898 CB PRO D 949	67.777	63.689	83.579	1.00	0.00	C
ATOM 10899 CG PRO D 949	67.595	63.463	85.089	1.00	0.00	C
ATOM 10900 CD PRO D 949	68.970	62.959	85.561	1.00	0.00	C
ATOM 10901 N ARG D 950	69.144	62.896	80.803	1.00	0.00	N
ATOM 10902 CA ARG D 950	69.875	63.236	79.624	1.00	0.00	C
ATOM 10903 C ARG D 950	69.428	64.583	79.150	1.00	0.00	C
ATOM 10904 O ARG D 950	68.482	64.708	78.372	1.00	0.00	O
ATOM 10905 CB ARG D 950	69.621	62.236	78.489	1.00	0.00	C

ATOM 10906	CG ARG D 950	70.210	62.647	77.140	1.00	0.00	C
ATOM 10907	CD ARG D 950	69.931	61.617	76.043	1.00	0.00	C
ATOM 10908	NE ARG D 950	70.269	62.254	74.739	1.00	0.00	N
ATOM 10909	CZ ARG D 950	71.560	62.274	74.306	1.00	0.00	C
ATOM 10910	NH1 ARG D 950	72.550	61.754	75.089	1.00	0.00	N
ATOM 10911	NH2 ARG D 950	71.863	62.817	73.093	1.00	0.00	N
ATOM 10912	N PHE D 951	70.117	65.626	79.641	1.00	0.00	N
ATOM 10913	CA PHE D 951	69.920	66.993	79.254	1.00	0.00	C
ATOM 10914	C PHE D 951	70.411	67.163	77.838	1.00	0.00	C
ATOM 10915	O PHE D 951	69.780	67.857	77.040	1.00	0.00	O
ATOM 10916	CB PHE D 951	70.722	67.969	80.133	1.00	0.00	C
ATOM 10917	CG PHE D 951	70.280	67.766	81.539	1.00	0.00	C
ATOM 10918	CD1 PHE D 951	69.181	68.425	82.035	1.00	0.00	C
ATOM 10919	CD2 PHE D 951	70.973	66.902	82.361	1.00	0.00	C
ATOM 10920	CE1 PHE D 951	68.781	68.226	83.336	1.00	0.00	C
ATOM 10921	CE2 PHE D 951	70.571	66.701	83.662	1.00	0.00	C
ATOM 10922	CZ PHE D 951	69.475	67.366	84.150	1.00	0.00	C
ATOM 10923	N PRO D 952	71.516	66.545	77.486	1.00	0.00	N
ATOM 10924	CA PRO D 952	72.017	66.700	76.148	1.00	0.00	C
ATOM 10925	C PRO D 952	71.091	66.128	75.134	1.00	0.00	C
ATOM 10926	O PRO D 952	71.379	66.234	73.944	1.00	0.00	O
ATOM 10927	CB PRO D 952	73.416	66.089	76.146	1.00	0.00	C
ATOM 10928	CG PRO D 952	73.906	66.339	77.579	1.00	0.00	C
ATOM 10929	CD PRO D 952	72.621	66.354	78.422	1.00	0.00	C
ATOM 10930	N GLU D 953	69.992	65.494	75.558	1.00	0.00	N
ATOM 10931	CA GLU D 953	69.095	64.971	74.574	1.00	0.00	C
ATOM 10932	C GLU D 953	68.599	66.134	73.767	1.00	0.00	C
ATOM 10933	O GLU D 953	68.453	66.034	72.552	1.00	0.00	O
ATOM 10934	CB GLU D 953	67.878	64.266	75.190	1.00	0.00	C
ATOM 10935	CG GLU D 953	67.054	63.460	74.179	1.00	0.00	C
ATOM 10936	CD GLU D 953	66.246	64.423	73.323	1.00	0.00	C
ATOM 10937	OE1 GLU D 953	65.550	65.298	73.909	1.00	0.00	O
ATOM 10938	OE2 GLU D 953	66.318	64.304	72.072	1.00	0.00	O
ATOM 10939	N TRP D 954	68.329	67.277	74.430	1.00	0.00	N
ATOM 10940	CA TRP D 954	67.803	68.442	73.775	1.00	0.00	C
ATOM 10941	C TRP D 954	68.767	68.983	72.764	1.00	0.00	C
ATOM 10942	O TRP D 954	68.376	69.336	71.653	1.00	0.00	O
ATOM 10943	CB TRP D 954	67.489	69.588	74.754	1.00	0.00	C
ATOM 10944	CG TRP D 954	67.137	70.887	74.068	1.00	0.00	C
ATOM 10945	CD1 TRP D 954	67.909	71.996	73.883	1.00	0.00	C
ATOM 10946	CD2 TRP D 954	65.877	71.159	73.432	1.00	0.00	C
ATOM 10947	CE2 TRP D 954	65.959	72.442	72.892	1.00	0.00	C
ATOM 10948	CE3 TRP D 954	64.752	70.400	73.304	1.00	0.00	C
ATOM 10949	NE1 TRP D 954	67.210	72.947	73.180	1.00	0.00	N

ATOM 10950	CZ2 TRP D 954	64.910	72.991	72.213	1.00	0.00	C
ATOM 10951	CZ3 TRP D 954	63.691	70.957	72.623	1.00	0.00	C
ATOM 10952	CH2 TRP D 954	63.771	72.228	72.087	1.00	0.00	C
ATOM 10953	N ILE D 955	70.065	69.033	73.110	1.00	0.00	N
ATOM 10954	CA ILE D 955	71.064	69.629	72.268	1.00	0.00	C
ATOM 10955	C ILE D 955	71.110	68.900	70.966	1.00	0.00	C
ATOM 10956	O ILE D 955	71.475	69.471	69.943	1.00	0.00	O
ATOM 10957	CB ILE D 955	72.456	69.621	72.837	1.00	0.00	C
ATOM 10958	CG1 ILE D 955	73.013	68.196	72.964	1.00	0.00	C
ATOM 10959	CG2 ILE D 955	72.416	70.392	74.165	1.00	0.00	C
ATOM 10960	CD1 ILE D 955	74.515	68.157	73.237	1.00	0.00	C
ATOM 10961	N THR D 956	70.738	67.608	70.974	1.00	0.00	N
ATOM 10962	CA THR D 956	70.883	66.771	69.822	1.00	0.00	C
ATOM 10963	C THR D 956	70.225	67.405	68.642	1.00	0.00	C
ATOM 10964	O THR D 956	70.732	67.262	67.535	1.00	0.00	O
ATOM 10965	CB THR D 956	70.257	65.419	69.983	1.00	0.00	C
ATOM 10966	CG2 THR D 956	70.804	64.778	71.271	1.00	0.00	C
ATOM 10967	OG1 THR D 956	68.844	65.535	70.055	1.00	0.00	O
ATOM 10968	N ILE D 957	69.087	68.102	68.801	1.00	0.00	N
ATOM 10969	CA ILE D 957	68.521	68.640	67.597	1.00	0.00	C
ATOM 10970	C ILE D 957	69.465	69.620	66.948	1.00	0.00	C
ATOM 10971	O ILE D 957	69.595	69.557	65.725	1.00	0.00	O
ATOM 10972	CB ILE D 957	67.080	69.117	67.709	1.00	0.00	C
ATOM 10973	CG1 ILE D 957	66.826	70.187	68.784	1.00	0.00	C
ATOM 10974	CG2 ILE D 957	66.221	67.860	67.908	1.00	0.00	C
ATOM 10975	CD1 ILE D 957	65.440	70.827	68.695	1.00	0.00	C
ATOM 10976	N PRO D 958	70.154	70.521	67.612	1.00	0.00	N
ATOM 10977	CA PRO D 958	71.110	71.313	66.886	1.00	0.00	C
ATOM 10978	C PRO D 958	72.268	70.453	66.500	1.00	0.00	C
ATOM 10979	O PRO D 958	72.974	70.783	65.546	1.00	0.00	O
ATOM 10980	CB PRO D 958	71.494	72.468	67.806	1.00	0.00	C
ATOM 10981	CG PRO D 958	70.249	72.652	68.689	1.00	0.00	C
ATOM 10982	CD PRO D 958	69.631	71.249	68.761	1.00	0.00	C
ATOM 10983	N LEU D 959	72.479	69.351	67.242	1.00	0.00	N
ATOM 10984	CA LEU D 959	73.565	68.455	66.998	1.00	0.00	C
ATOM 10985	C LEU D 959	73.324	67.867	65.647	1.00	0.00	C
ATOM 10986	O LEU D 959	74.256	67.607	64.888	1.00	0.00	O
ATOM 10987	CB LEU D 959	73.639	67.321	68.035	1.00	0.00	C
ATOM 10988	CG LEU D 959	74.899	66.436	67.920	1.00	0.00	C
ATOM 10989	CD1 LEU D 959	74.899	65.585	66.643	1.00	0.00	C
ATOM 10990	CD2 LEU D 959	76.175	67.275	68.085	1.00	0.00	C
ATOM 10991	N VAL D 960	72.038	67.657	65.321	1.00	0.00	N
ATOM 10992	CA VAL D 960	71.625	67.098	64.073	1.00	0.00	C
ATOM 10993	C VAL D 960	72.163	67.997	63.019	1.00	0.00	C

ATOM 10994 O VAL D 960	72.698	67.541	62.011	1.00	0.00	O
ATOM 10995 CB VAL D 960	70.125	67.096	63.938	1.00	0.00	C
ATOM 10996 CG1 VAL D 960	69.740	66.720	62.497	1.00	0.00	C
ATOM 10997 CG2 VAL D 960	69.545	66.158	65.009	1.00	0.00	C
ATOM 10998 N CYS D 961	72.046	69.315	63.249	1.00	0.00	N
ATOM 10999 CA CYS D 961	72.537	70.261	62.302	1.00	0.00	C
ATOM 11000 C CYS D 961	74.012	70.072	62.189	1.00	0.00	C
ATOM 11001 O CYS D 961	74.583	70.150	61.101	1.00	0.00	O
ATOM 11002 CB CYS D 961	72.290	71.716	62.726	1.00	0.00	C
ATOM 11003 SG CYS D 961	72.919	72.906	61.504	1.00	0.00	S
ATOM 11004 N ILE D 962	74.672	69.794	63.326	1.00	0.00	N
ATOM 11005 CA ILE D 962	76.102	69.684	63.364	1.00	0.00	C
ATOM 11006 C ILE D 962	76.560	68.564	62.481	1.00	0.00	C
ATOM 11007 O ILE D 962	77.485	68.736	61.691	1.00	0.00	O
ATOM 11008 CB ILE D 962	76.617	69.358	64.736	1.00	0.00	C
ATOM 11009 CG1 ILE D 962	76.186	70.427	65.753	1.00	0.00	C
ATOM 11010 CG2 ILE D 962	78.141	69.193	64.633	1.00	0.00	C
ATOM 11011 CD1 ILE D 962	76.730	71.819	65.449	1.00	0.00	C
ATOM 11012 N TYR D 963	75.903	67.393	62.569	1.00	0.00	N
ATOM 11013 CA TYR D 963	76.404	66.258	61.850	1.00	0.00	C
ATOM 11014 C TYR D 963	76.339	66.498	60.380	1.00	0.00	C
ATOM 11015 O TYR D 963	77.212	66.046	59.643	1.00	0.00	O
ATOM 11016 CB TYR D 963	75.734	64.904	62.176	1.00	0.00	C
ATOM 11017 CG TYR D 963	74.323	64.844	61.708	1.00	0.00	C
ATOM 11018 CD1 TYR D 963	74.023	64.675	60.376	1.00	0.00	C
ATOM 11019 CD2 TYR D 963	73.298	64.915	62.619	1.00	0.00	C
ATOM 11020 CE1 TYR D 963	72.716	64.605	59.956	1.00	0.00	C
ATOM 11021 CE2 TYR D 963	71.988	64.844	62.206	1.00	0.00	C
ATOM 11022 CZ TYR D 963	71.696	64.694	60.872	1.00	0.00	C
ATOM 11023 OH TYR D 963	70.351	64.621	60.452	1.00	0.00	O
ATOM 11024 N MET D 964	75.314	67.226	59.907	1.00	0.00	N
ATOM 11025 CA MET D 964	75.151	67.395	58.490	1.00	0.00	C
ATOM 11026 C MET D 964	76.394	68.015	57.924	1.00	0.00	C
ATOM 11027 O MET D 964	76.874	67.605	56.870	1.00	0.00	O
ATOM 11028 CB MET D 964	74.000	68.348	58.132	1.00	0.00	C
ATOM 11029 CG MET D 964	72.618	67.853	58.567	1.00	0.00	C
ATOM 11030 SD MET D 964	71.269	69.022	58.217	1.00	0.00	S
ATOM 11031 CE MET D 964	71.813	70.254	59.439	1.00	0.00	C
ATOM 11032 N LEU D 965	76.961	69.021	58.608	1.00	0.00	N
ATOM 11033 CA LEU D 965	78.118	69.654	58.049	1.00	0.00	C
ATOM 11034 C LEU D 965	79.219	68.638	57.986	1.00	0.00	C
ATOM 11035 O LEU D 965	79.906	68.520	56.973	1.00	0.00	O
ATOM 11036 CB LEU D 965	78.584	70.862	58.891	1.00	0.00	C
ATOM 11037 CG LEU D 965	79.654	71.785	58.251	1.00	0.00	C

ATOM 11038	CD1 LEU D 965	80.008	72.935	59.207	1.00	0.00	C
ATOM 11039	CD2 LEU D 965	80.910	71.032	57.780	1.00	0.00	C
ATOM 11040	N SER D 966	79.401	67.857	59.066	1.00	0.00	N
ATOM 11041	CA SER D 966	80.490	66.922	59.113	1.00	0.00	C
ATOM 11042	C SER D 966	80.314	65.886	58.052	1.00	0.00	C
ATOM 11043	O SER D 966	81.244	65.574	57.313	1.00	0.00	O
ATOM 11044	CB SER D 966	80.601	66.195	60.463	1.00	0.00	C
ATOM 11045	OG SER D 966	79.478	65.352	60.665	1.00	0.00	O
ATOM 11046	N THR D 967	79.094	65.344	57.934	1.00	0.00	N
ATOM 11047	CA THR D 967	78.858	64.296	56.993	1.00	0.00	C
ATOM 11048	C THR D 967	79.114	64.800	55.614	1.00	0.00	C
ATOM 11049	O THR D 967	79.736	64.119	54.801	1.00	0.00	O
ATOM 11050	CB THR D 967	77.450	63.772	57.065	1.00	0.00	C
ATOM 11051	CG2 THR D 967	76.447	64.901	56.800	1.00	0.00	C
ATOM 11052	OG1 THR D 967	77.279	62.740	56.113	1.00	0.00	O
ATOM 11053	N ASN D 968	78.676	66.034	55.323	1.00	0.00	N
ATOM 11054	CA ASN D 968	78.810	66.518	53.985	1.00	0.00	C
ATOM 11055	C ASN D 968	80.253	66.539	53.597	1.00	0.00	C
ATOM 11056	O ASN D 968	80.605	66.143	52.487	1.00	0.00	O
ATOM 11057	CB ASN D 968	78.252	67.938	53.797	1.00	0.00	C
ATOM 11058	CG ASN D 968	78.288	68.243	52.307	1.00	0.00	C
ATOM 11059	ND2 ASN D 968	77.144	68.001	51.607	1.00	0.00	N
ATOM 11060	OD1 ASN D 968	79.310	68.670	51.772	1.00	0.00	O
ATOM 11061	N ILE D 969	81.134	66.988	54.504	1.00	0.00	N
ATOM 11062	CA ILE D 969	82.506	67.085	54.114	1.00	0.00	C
ATOM 11063	C ILE D 969	83.003	65.697	53.862	1.00	0.00	C
ATOM 11064	O ILE D 969	83.808	65.461	52.966	1.00	0.00	O
ATOM 11065	CB ILE D 969	83.403	67.711	55.122	1.00	0.00	C
ATOM 11066	CG1 ILE D 969	82.779	68.963	55.754	1.00	0.00	C
ATOM 11067	CG2 ILE D 969	84.609	68.115	54.274	1.00	0.00	C
ATOM 11068	CD1 ILE D 969	83.538	69.450	56.987	1.00	0.00	C
ATOM 11069	N LEU D 970	82.549	64.722	54.667	1.00	0.00	N
ATOM 11070	CA LEU D 970	83.033	63.395	54.455	1.00	0.00	C
ATOM 11071	C LEU D 970	82.670	62.958	53.076	1.00	0.00	C
ATOM 11072	O LEU D 970	83.512	62.419	52.362	1.00	0.00	O
ATOM 11073	CB LEU D 970	82.452	62.364	55.436	1.00	0.00	C
ATOM 11074	CG LEU D 970	82.879	60.928	55.085	1.00	0.00	C
ATOM 11075	CD1 LEU D 970	84.407	60.786	55.045	1.00	0.00	C
ATOM 11076	CD2 LEU D 970	82.219	59.920	56.030	1.00	0.00	C
ATOM 11077	N LEU D 971	81.423	63.202	52.638	1.00	0.00	N
ATOM 11078	CA LEU D 971	81.074	62.759	51.322	1.00	0.00	C
ATOM 11079	C LEU D 971	81.936	63.467	50.330	1.00	0.00	C
ATOM 11080	O LEU D 971	82.470	62.840	49.418	1.00	0.00	O
ATOM 11081	CB LEU D 971	79.605	63.010	50.938	1.00	0.00	C

ATOM 11082	CG LEU D 971	78.610	62.061	51.633	1.00	0.00	C
ATOM 11083	CD1 LEU D 971	78.648	62.208	53.160	1.00	0.00	C
ATOM 11084	CD2 LEU D 971	77.195	62.225	51.057	1.00	0.00	C
ATOM 11085	N VAL D 972	82.137	64.788	50.495	1.00	0.00	N
ATOM 11086	CA VAL D 972	82.917	65.493	49.519	1.00	0.00	C
ATOM 11087	C VAL D 972	84.280	64.896	49.533	1.00	0.00	C
ATOM 11088	O VAL D 972	84.957	64.821	48.509	1.00	0.00	O
ATOM 11089	CB VAL D 972	83.028	66.981	49.747	1.00	0.00	C
ATOM 11090	CG1 VAL D 972	83.954	67.276	50.936	1.00	0.00	C
ATOM 11091	CG2 VAL D 972	83.507	67.627	48.437	1.00	0.00	C
ATOM 11092	N ASN D 973	84.717	64.440	50.715	1.00	0.00	N
ATOM 11093	CA ASN D 973	86.009	63.841	50.834	1.00	0.00	C
ATOM 11094	C ASN D 973	86.066	62.651	49.925	1.00	0.00	C
ATOM 11095	O ASN D 973	87.027	62.494	49.171	1.00	0.00	O
ATOM 11096	CB ASN D 973	86.276	63.341	52.262	1.00	0.00	C
ATOM 11097	CG ASN D 973	87.686	62.770	52.331	1.00	0.00	C
ATOM 11098	ND2 ASN D 973	88.073	62.275	53.537	1.00	0.00	N
ATOM 11099	OD1 ASN D 973	88.417	62.754	51.342	1.00	0.00	O
ATOM 11100	N LEU D 974	85.035	61.781	49.970	1.00	0.00	N
ATOM 11101	CA LEU D 974	84.984	60.574	49.185	1.00	0.00	C
ATOM 11102	C LEU D 974	84.838	60.846	47.717	1.00	0.00	C
ATOM 11103	O LEU D 974	85.505	60.210	46.906	1.00	0.00	O
ATOM 11104	CB LEU D 974	83.833	59.634	49.583	1.00	0.00	C
ATOM 11105	CG LEU D 974	84.063	58.859	50.898	1.00	0.00	C
ATOM 11106	CD1 LEU D 974	84.263	59.800	52.092	1.00	0.00	C
ATOM 11107	CD2 LEU D 974	82.945	57.831	51.134	1.00	0.00	C
ATOM 11108	N LEU D 975	83.989	61.819	47.337	1.00	0.00	N
ATOM 11109	CA LEU D 975	83.657	62.045	45.956	1.00	0.00	C
ATOM 11110	C LEU D 975	84.861	62.365	45.133	1.00	0.00	C
ATOM 11111	O LEU D 975	84.933	61.956	43.974	1.00	0.00	O
ATOM 11112	CB LEU D 975	82.650	63.190	45.727	1.00	0.00	C
ATOM 11113	CG LEU D 975	81.164	62.813	45.904	1.00	0.00	C
ATOM 11114	CD1 LEU D 975	80.712	61.864	44.783	1.00	0.00	C
ATOM 11115	CD2 LEU D 975	80.848	62.262	47.298	1.00	0.00	C
ATOM 11116	N VAL D 976	85.844	63.087	45.693	1.00	0.00	N
ATOM 11117	CA VAL D 976	86.932	63.523	44.866	1.00	0.00	C
ATOM 11118	C VAL D 976	87.635	62.361	44.223	1.00	0.00	C
ATOM 11119	O VAL D 976	87.996	62.439	43.050	1.00	0.00	O
ATOM 11120	CB VAL D 976	87.967	64.324	45.587	1.00	0.00	C
ATOM 11121	CG1 VAL D 976	89.055	64.691	44.562	1.00	0.00	C
ATOM 11122	CG2 VAL D 976	87.292	65.544	46.236	1.00	0.00	C
ATOM 11123	N ALA D 977	87.862	61.249	44.949	1.00	0.00	N
ATOM 11124	CA ALA D 977	88.560	60.152	44.334	1.00	0.00	C
ATOM 11125	C ALA D 977	87.689	59.583	43.228	1.00	0.00	C

ATOM 11126	O	ALA D 977	86.469	59.725	43.303	1.00	0.00	O
ATOM 11127	CB	ALA D 977	88.895	59.016	45.314	1.00	0.00	C
ATOM 11128	N	MET D 978	87.787	58.881	43.120	1.00	0.00	N
ATOM 11129	CA	MET D 978	87.020	58.267	42.052	1.00	0.00	C
ATOM 11130	C	MET D 978	86.240	57.186	42.710	1.00	0.00	C
ATOM 11131	O	MET D 978	86.780	56.422	43.509	1.00	0.00	O
ATOM 11132	CB	MET D 978	87.863	57.597	40.957	1.00	0.00	C
ATOM 11133	CG	MET D 978	88.678	58.581	40.123	1.00	0.00	C
ATOM 11134	SD	MET D 978	90.046	59.355	41.029	1.00	0.00	S
ATOM 11135	CE	MET D 978	90.638	60.362	39.642	1.00	0.00	C
ATOM 11136	N	PHE D 979	84.939	57.086	42.392	1.00	0.00	N
ATOM 11137	CA	PHE D 979	84.185	56.102	43.098	1.00	0.00	C
ATOM 11138	C	PHE D 979	83.699	55.101	42.116	1.00	0.00	C
ATOM 11139	O	PHE D 979	83.308	55.443	41.000	1.00	0.00	O
ATOM 11140	CB	PHE D 979	82.954	56.671	43.822	1.00	0.00	C
ATOM 11141	CG	PHE D 979	82.438	55.610	44.724	1.00	0.00	C
ATOM 11142	CD1	PHE D 979	82.952	55.471	45.993	1.00	0.00	C
ATOM 11143	CD2	PHE D 979	81.449	54.749	44.308	1.00	0.00	C
ATOM 11144	CE1	PHE D 979	82.485	54.493	46.836	1.00	0.00	C
ATOM 11145	CE2	PHE D 979	80.980	53.765	45.149	1.00	0.00	C
ATOM 11146	CZ	PHE D 979	81.496	53.636	46.416	1.00	0.00	C
ATOM 11147	N	GLY D 980	83.734	53.817	42.518	1.00	0.00	N
ATOM 11148	CA	GLY D 980	83.248	52.780	41.667	1.00	0.00	C
ATOM 11149	C	GLY D 980	84.005	52.859	40.391	1.00	0.00	C
ATOM 11150	O	GLY D 980	85.232	52.956	40.376	1.00	0.00	O
ATOM 11151	N	TYR D 981	83.258	52.843	39.274	1.00	0.00	N
ATOM 11152	CA	TYR D 981	83.856	52.891	37.981	1.00	0.00	C
ATOM 11153	C	TYR D 981	83.377	54.159	37.362	1.00	0.00	C
ATOM 11154	O	TYR D 981	82.212	54.527	37.502	1.00	0.00	O
ATOM 11155	CB	TYR D 981	83.381	51.734	37.085	1.00	0.00	C
ATOM 11156	CG	TYR D 981	84.187	51.726	35.835	1.00	0.00	C
ATOM 11157	CD1	TYR D 981	85.420	51.122	35.823	1.00	0.00	C
ATOM 11158	CD2	TYR D 981	83.710	52.299	34.681	1.00	0.00	C
ATOM 11159	CE1	TYR D 981	86.179	51.096	34.680	1.00	0.00	C
ATOM 11160	CE2	TYR D 981	84.464	52.277	33.529	1.00	0.00	C
ATOM 11161	CZ	TYR D 981	85.699	51.675	33.530	1.00	0.00	C
ATOM 11162	OH	TYR D 981	86.477	51.648	32.354	1.00	0.00	O
ATOM 11163	N	THR D 982	84.281	54.883	36.679	1.00	0.00	N
ATOM 11164	CA	THR D 982	83.882	56.113	36.068	1.00	0.00	C
ATOM 11165	C	THR D 982	82.901	55.800	35.001	1.00	0.00	C
ATOM 11166	O	THR D 982	83.139	54.945	34.149	1.00	0.00	O
ATOM 11167	CB	THR D 982	85.013	56.856	35.421	1.00	0.00	C
ATOM 11168	CG2	THR D 982	84.461	58.068	34.657	1.00	0.00	C
ATOM 11169	OG1	THR D 982	85.950	57.266	36.399	1.00	0.00	O

ATOM 11170 N VAL D 983	81.756	56.501	35.031	1.00	0.00	N
ATOM 11171 CA VAL D 983	80.744	56.290	34.047	1.00	0.00	C
ATOM 11172 C VAL D 983	80.265	57.634	33.617	1.00	0.00	C
ATOM 11173 O VAL D 983	80.401	58.617	34.345	1.00	0.00	O
ATOM 11174 CB VAL D 983	79.550	55.554	34.575	1.00	0.00	C
ATOM 11175 CG1 VAL D 983	79.990	54.139	34.991	1.00	0.00	C
ATOM 11176 CG2 VAL D 983	78.943	56.379	35.718	1.00	0.00	C
ATOM 11177 N GLY D 984	79.710	57.705	32.393	1.00	0.00	N
ATOM 11178 CA GLY D 984	79.183	58.936	31.890	1.00	0.00	C
ATOM 11179 C GLY D 984	80.251	59.598	31.088	1.00	0.00	C
ATOM 11180 O GLY D 984	81.439	59.460	31.375	1.00	0.00	O
ATOM 11181 N THR D 985	79.835	60.346	30.050	1.00	0.00	N
ATOM 11182 CA THR D 985	80.759	61.051	29.215	1.00	0.00	C
ATOM 11183 C THR D 985	81.401	62.111	30.043	1.00	0.00	C
ATOM 11184 O THR D 985	82.608	62.340	29.953	1.00	0.00	O
ATOM 11185 CB THR D 985	80.102	61.743	28.061	1.00	0.00	C
ATOM 11186 CG2 THR D 985	81.179	62.502	27.270	1.00	0.00	C
ATOM 11187 OG1 THR D 985	79.450	60.794	27.229	1.00	0.00	O
ATOM 11188 N VAL D 986	80.599	62.772	30.897	1.00	0.00	N
ATOM 11189 CA VAL D 986	81.113	63.848	31.686	1.00	0.00	C
ATOM 11190 C VAL D 986	82.225	63.317	32.520	1.00	0.00	C
ATOM 11191 O VAL D 986	83.311	63.893	32.566	1.00	0.00	O
ATOM 11192 CB VAL D 986	80.080	64.415	32.620	1.00	0.00	C
ATOM 11193 CG1 VAL D 986	80.749	65.475	33.509	1.00	0.00	C
ATOM 11194 CG2 VAL D 986	78.899	64.943	31.788	1.00	0.00	C
ATOM 11195 N GLN D 987	81.995	62.174	33.190	1.00	0.00	N
ATOM 11196 CA GLN D 987	83.036	61.666	34.028	1.00	0.00	C
ATOM 11197 C GLN D 987	84.039	61.025	33.130	1.00	0.00	C
ATOM 11198 O GLN D 987	83.692	60.247	32.242	1.00	0.00	O
ATOM 11199 CB GLN D 987	82.526	60.639	35.053	1.00	0.00	C
ATOM 11200 CG GLN D 987	83.487	60.370	36.211	1.00	0.00	C
ATOM 11201 CD GLN D 987	82.774	59.432	37.174	1.00	0.00	C
ATOM 11202 NE2 GLN D 987	81.460	59.696	37.409	1.00	0.00	N
ATOM 11203 OE1 GLN D 987	83.368	58.498	37.709	1.00	0.00	O
ATOM 11204 N GLU D 988	85.330	61.358	33.325	1.00	0.00	N
ATOM 11205 CA GLU D 988	86.333	60.789	32.480	1.00	0.00	C
ATOM 11206 C GLU D 988	87.496	60.433	33.346	1.00	0.00	C
ATOM 11207 O GLU D 988	87.817	61.145	34.296	1.00	0.00	O
ATOM 11208 CB GLU D 988	86.835	61.777	31.410	1.00	0.00	C
ATOM 11209 CG GLU D 988	87.783	61.167	30.375	1.00	0.00	C
ATOM 11210 CD GLU D 988	89.180	61.112	30.967	1.00	0.00	C
ATOM 11211 OE1 GLU D 988	89.430	61.818	31.983	1.00	0.00	O
ATOM 11212 OE2 GLU D 988	90.020	60.361	30.409	1.00	0.00	O
ATOM 11213 N ASN D 989	88.153	59.295	33.050	1.00	0.00	N

ATOM 11214 CA ASN D 989	89.307	58.934	33.814	1.00	0.00	C
ATOM 11215 C ASN D 989	90.443	58.838	32.853	1.00	0.00	C
ATOM 11216 O ASN D 989	90.318	58.238	31.787	1.00	0.00	O
ATOM 11217 CB ASN D 989	89.193	57.578	34.532	1.00	0.00	C
ATOM 11218 CG ASN D 989	90.337	57.484	35.535	1.00	0.00	C
ATOM 11219 ND2 ASN D 989	90.007	57.082	36.790	1.00	0.00	N
ATOM 11220 OD1 ASN D 989	91.490	57.769	35.214	1.00	0.00	O
ATOM 11221 N ASN D 990	91.591	59.447	33.195	1.00	0.00	N
ATOM 11222 CA ASN D 990	92.680	59.380	32.272	1.00	0.00	C
ATOM 11223 C ASN D 990	93.696	58.433	32.816	1.00	0.00	C
ATOM 11224 O ASN D 990	94.234	58.632	33.901	1.00	0.00	O
ATOM 11225 CB ASN D 990	93.416	60.716	32.071	1.00	0.00	C
ATOM 11226 CG ASN D 990	92.508	61.715	31.370	1.00	0.00	C
ATOM 11227 ND2 ASN D 990	92.366	61.566	30.025	1.00	0.00	N
ATOM 11228 OD1 ASN D 990	91.953	62.615	32.000	1.00	0.00	O
ATOM 11229 N ASP D 991	93.961	57.348	32.066	1.00	0.00	N
ATOM 11230 CA ASP D 991	94.984	56.434	32.466	1.00	0.00	C
ATOM 11231 C ASP D 991	96.282	57.156	32.314	1.00	0.00	C
ATOM 11232 O ASP D 991	97.214	56.966	33.093	1.00	0.00	O
ATOM 11233 CB ASP D 991	95.032	55.155	31.613	1.00	0.00	C
ATOM 11234 CG ASP D 991	95.332	55.531	30.170	1.00	0.00	C
ATOM 11235 OD1 ASP D 991	94.825	56.589	29.710	1.00	0.00	O
ATOM 11236 OD2 ASP D 991	96.076	54.761	29.507	1.00	0.00	O
ATOM 11237 N GLN D 992	96.363	58.017	31.281	1.00	0.00	N
ATOM 11238 CA GLN D 992	97.569	58.740	31.013	1.00	0.00	C
ATOM 11239 C GLN D 992	97.867	59.702	32.127	1.00	0.00	C
ATOM 11240 O GLN D 992	99.023	59.835	32.526	1.00	0.00	O
ATOM 11241 CB GLN D 992	97.564	59.472	29.656	1.00	0.00	C
ATOM 11242 CG GLN D 992	96.492	60.544	29.462	1.00	0.00	C
ATOM 11243 CD GLN D 992	96.666	61.090	28.048	1.00	0.00	C
ATOM 11244 NE2 GLN D 992	96.544	60.195	27.029	1.00	0.00	N
ATOM 11245 OE1 GLN D 992	96.906	62.284	27.852	1.00	0.00	O
ATOM 11246 N VAL D 993	96.840	60.371	32.693	1.00	0.00	N
ATOM 11247 CA VAL D 993	97.089	61.320	33.745	1.00	0.00	C
ATOM 11248 C VAL D 993	97.761	60.592	34.849	1.00	0.00	C
ATOM 11249 O VAL D 993	98.729	61.074	35.437	1.00	0.00	O
ATOM 11250 CB VAL D 993	95.848	61.901	34.369	1.00	0.00	C
ATOM 11251 CG1 VAL D 993	96.266	62.696	35.617	1.00	0.00	C
ATOM 11252 CG2 VAL D 993	95.101	62.759	33.339	1.00	0.00	C
ATOM 11253 N TRP D 994	97.261	59.391	35.166	1.00	0.00	N
ATOM 11254 CA TRP D 994	97.902	58.652	36.200	1.00	0.00	C
ATOM 11255 C TRP D 994	99.319	58.434	35.859	1.00	0.00	C
ATOM 11256 O TRP D 994	100.190	58.658	36.696	1.00	0.00	O
ATOM 11257 CB TRP D 994	97.464	57.216	36.315	1.00	0.00	C

ATOM 11258	CG TRP D 994	98.635	56.364	36.756	1.00	0.00	C
ATOM 11259	CD1 TRP D 994	99.386	56.359	37.905	1.00	0.00	C
ATOM 11260	CD2 TRP D 994	99.028	55.187	36.026	1.00	0.00	C
ATOM 11261	CE2 TRP D 994	99.987	54.520	36.788	1.00	0.00	C
ATOM 11262	CE3 TRP D 994	98.591	54.682	34.835	1.00	0.00	C
ATOM 11263	NE1 TRP D 994	100.198	55.250	37.934	1.00	0.00	N
ATOM 11264	CZ2 TRP D 994	100.527	53.339	36.366	1.00	0.00	C
ATOM 11265	CZ3 TRP D 994	99.161	53.509	34.401	1.00	0.00	C
ATOM 11266	CH2 TRP D 994	100.111	52.848	35.153	1.00	0.00	C
ATOM 11267	N LYS D 995	99.565	57.959	34.626	1.00	0.00	N
ATOM 11268	CA LYS D 995	100.885	57.537	34.275	1.00	0.00	C
ATOM 11269	C LYS D 995	101.807	58.677	34.491	1.00	0.00	C
ATOM 11270	O LYS D 995	102.936	58.476	34.936	1.00	0.00	O
ATOM 11271	CB LYS D 995	101.047	57.127	32.800	1.00	0.00	C
ATOM 11272	CG LYS D 995	100.754	55.658	32.491	1.00	0.00	C
ATOM 11273	CD LYS D 995	101.760	54.670	33.094	1.00	0.00	C
ATOM 11274	CE LYS D 995	101.545	53.234	32.606	1.00	0.00	C
ATOM 11275	NZ LYS D 995	102.604	52.345	33.128	1.00	0.00	NI+
ATOM 11276	N PHE D 996	101.347	59.898	34.190	1.00	0.00	N
ATOM 11277	CA PHE D 996	102.193	61.032	34.363	1.00	0.00	C
ATOM 11278	C PHE D 996	102.591	61.103	35.802	1.00	0.00	C
ATOM 11279	O PHE D 996	103.772	61.228	36.116	1.00	0.00	O
ATOM 11280	CB PHE D 996	101.489	62.360	34.016	1.00	0.00	C
ATOM 11281	CG PHE D 996	102.465	63.467	34.235	1.00	0.00	C
ATOM 11282	CD1 PHE D 996	103.338	63.840	33.240	1.00	0.00	C
ATOM 11283	CD2 PHE D 996	102.510	64.131	35.439	1.00	0.00	C
ATOM 11284	CE1 PHE D 996	104.240	64.857	33.439	1.00	0.00	C
ATOM 11285	CE2 PHE D 996	103.409	65.151	35.642	1.00	0.00	C
ATOM 11286	CZ PHE D 996	104.277	65.518	34.642	1.00	0.00	C
ATOM 11287	N GLN D 997	101.613	61.005	36.725	1.00	0.00	N
ATOM 11288	CA GLN D 997	101.933	61.112	38.120	1.00	0.00	C
ATOM 11289	C GLN D 997	102.798	59.969	38.538	1.00	0.00	C
ATOM 11290	O GLN D 997	103.718	60.134	39.334	1.00	0.00	O
ATOM 11291	CB GLN D 997	100.721	61.122	39.069	1.00	0.00	C
ATOM 11292	CG GLN D 997	101.162	61.184	40.537	1.00	0.00	C
ATOM 11293	CD GLN D 997	99.970	61.527	41.409	1.00	0.00	C
ATOM 11294	NE2 GLN D 997	98.994	62.275	40.834	1.00	0.00	N
ATOM 11295	OE1 GLN D 997	99.918	61.168	42.586	1.00	0.00	O
ATOM 11296	N ARG D 998	102.514	58.769	38.017	1.00	0.00	N
ATOM 11297	CA ARG D 998	103.253	57.597	38.379	1.00	0.00	C
ATOM 11298	C ARG D 998	104.690	57.777	37.991	1.00	0.00	C
ATOM 11299	O ARG D 998	105.593	57.493	38.773	1.00	0.00	O
ATOM 11300	CB ARG D 998	102.721	56.381	37.610	1.00	0.00	C
ATOM 11301	CG ARG D 998	103.626	55.158	37.649	1.00	0.00	C

ATOM 11302	CD ARG D 998	104.501	55.013	36.404	1.00	0.00	C
ATOM 11303	NE ARG D 998	105.309	53.775	36.592	1.00	0.00	N
ATOM 11304	CZ ARG D 998	104.748	52.568	36.295	1.00	0.00	C
ATOM 11305	NH1 ARG D 998	103.474	52.516	35.812	1.00	0.00	N
ATOM 11306	NH2 ARG D 998	105.448	51.414	36.498	1.00	0.00	N
ATOM 11307	N TYR D 999	104.914	58.270	36.758	1.00	0.00	N
ATOM 11308	CA TYR D 999	106.210	58.480	36.185	1.00	0.00	C
ATOM 11309	C TYR D 999	106.927	59.525	36.973	1.00	0.00	C
ATOM 11310	O TYR D 999	108.116	59.402	37.259	1.00	0.00	O
ATOM 11311	CB TYR D 999	106.096	58.972	34.729	1.00	0.00	C
ATOM 11312	CG TYR D 999	107.448	59.265	34.183	1.00	0.00	C
ATOM 11313	CD1 TYR D 999	108.312	58.236	33.908	1.00	0.00	C
ATOM 11314	CD2 TYR D 999	107.852	60.551	33.913	1.00	0.00	C
ATOM 11315	CE1 TYR D 999	109.562	58.469	33.394	1.00	0.00	C
ATOM 11316	CE2 TYR D 999	109.102	60.796	33.393	1.00	0.00	C
ATOM 11317	CZ TYR D 999	109.962	59.755	33.139	1.00	0.00	C
ATOM 11318	OH TYR D 999	111.245	59.990	32.609	1.00	0.00	O
ATOM 11319	N PHE D1000	106.208	60.592	37.347	1.00	0.00	N
ATOM 11320	CA PHE D1000	106.803	61.679	38.060	1.00	0.00	C
ATOM 11321	C PHE D1000	107.331	61.155	39.354	1.00	0.00	C
ATOM 11322	O PHE D1000	108.466	61.447	39.728	1.00	0.00	O
ATOM 11323	CB PHE D1000	105.779	62.785	38.376	1.00	0.00	C
ATOM 11324	CG PHE D1000	106.468	63.878	39.115	1.00	0.00	C
ATOM 11325	CD1 PHE D1000	107.203	64.826	38.436	1.00	0.00	C
ATOM 11326	CD2 PHE D1000	106.372	63.960	40.485	1.00	0.00	C
ATOM 11327	CE1 PHE D1000	107.834	65.837	39.119	1.00	0.00	C
ATOM 11328	CE2 PHE D1000	107.004	64.971	41.170	1.00	0.00	C
ATOM 11329	CZ PHE D1000	107.736	65.911	40.486	1.00	0.00	C
ATOM 11330	N LEU D1001	106.523	60.347	40.064	1.00	0.00	N
ATOM 11331	CA LEU D1001	106.926	59.843	41.342	1.00	0.00	C
ATOM 11332	C LEU D1001	108.125	58.952	41.203	1.00	0.00	C
ATOM 11333	O LEU D1001	109.065	59.058	41.990	1.00	0.00	O
ATOM 11334	CB LEU D1001	105.839	59.030	42.061	1.00	0.00	C
ATOM 11335	CG LEU D1001	104.636	59.876	42.506	1.00	0.00	C
ATOM 11336	CD1 LEU D1001	103.697	59.054	43.397	1.00	0.00	C
ATOM 11337	CD2 LEU D1001	105.085	61.185	43.171	1.00	0.00	C
ATOM 11338	N VAL D1002	108.134	58.058	40.200	1.00	0.00	N
ATOM 11339	CA VAL D1002	109.231	57.142	40.081	1.00	0.00	C
ATOM 11340	C VAL D1002	110.480	57.911	39.792	1.00	0.00	C
ATOM 11341	O VAL D1002	111.539	57.604	40.334	1.00	0.00	O
ATOM 11342	CB VAL D1002	109.048	56.119	38.994	1.00	0.00	C
ATOM 11343	CG1 VAL D1002	107.807	55.269	39.329	1.00	0.00	C
ATOM 11344	CG2 VAL D1002	108.979	56.828	37.632	1.00	0.00	C
ATOM 11345	N GLN D1003	110.392	58.940	38.922	1.00	0.00	N

ATOM 11346	CA	GLN D1003	111.560	59.698	38.578	1.00	0.00	C
ATOM 11347	C	GLN D1003	112.075	60.387	39.799	1.00	0.00	C
ATOM 11348	O	GLN D1003	113.276	60.414	40.044	1.00	0.00	O
ATOM 11349	CB	GLN D1003	111.308	60.844	37.594	1.00	0.00	C
ATOM 11350	CG	GLN D1003	110.994	60.433	36.165	1.00	0.00	C
ATOM 11351	CD	GLN D1003	111.082	61.724	35.376	1.00	0.00	C
ATOM 11352	NE2	GLN D1003	110.009	62.557	35.459	1.00	0.00	N
ATOM 11353	OE1	GLN D1003	112.093	62.001	34.735	1.00	0.00	O
ATOM 11354	N	GLU D1004	111.162	60.963	40.603	1.00	0.00	N
ATOM 11355	CA	GLU D1004	111.571	61.701	41.761	1.00	0.00	C
ATOM 11356	C	GLU D1004	112.271	60.744	42.671	1.00	0.00	C
ATOM 11357	O	GLU D1004	113.279	61.069	43.294	1.00	0.00	O
ATOM 11358	CB	GLU D1004	110.370	62.297	42.518	1.00	0.00	C
ATOM 11359	CG	GLU D1004	110.750	63.107	43.758	1.00	0.00	C
ATOM 11360	CD	GLU D1004	109.459	63.620	44.380	1.00	0.00	C
ATOM 11361	OE1	GLU D1004	108.558	64.039	43.605	1.00	0.00	O
ATOM 11362	OE2	GLU D1004	109.351	63.594	45.635	1.00	0.00	O
ATOM 11363	N	TYR D1005	111.727	59.519	42.735	1.00	0.00	N
ATOM 11364	CA	TYR D1005	112.214	58.419	43.510	1.00	0.00	C
ATOM 11365	C	TYR D1005	113.598	58.083	43.042	1.00	0.00	C
ATOM 11366	O	TYR D1005	114.515	57.943	43.847	1.00	0.00	O
ATOM 11367	CB	TYR D1005	111.272	57.220	43.256	1.00	0.00	C
ATOM 11368	CG	TYR D1005	111.855	55.884	43.572	1.00	0.00	C
ATOM 11369	CD1	TYR D1005	112.723	55.290	42.684	1.00	0.00	C
ATOM 11370	CD2	TYR D1005	111.505	55.199	44.713	1.00	0.00	C
ATOM 11371	CE1	TYR D1005	113.259	54.051	42.930	1.00	0.00	C
ATOM 11372	CE2	TYR D1005	112.039	53.957	44.967	1.00	0.00	C
ATOM 11373	CZ	TYR D1005	112.915	53.381	44.076	1.00	0.00	C
ATOM 11374	OH	TYR D1005	113.458	52.106	44.341	1.00	0.00	O
ATOM 11375	N	CYS D1006	113.777	57.978	41.715	1.00	0.00	N
ATOM 11376	CA	CYS D1006	115.049	57.609	41.172	1.00	0.00	C
ATOM 11377	C	CYS D1006	116.051	58.670	41.501	1.00	0.00	C
ATOM 11378	O	CYS D1006	117.171	58.373	41.911	1.00	0.00	O
ATOM 11379	CB	CYS D1006	115.020	57.448	39.643	1.00	0.00	C
ATOM 11380	SG	CYS D1006	113.937	56.087	39.111	1.00	0.00	S
ATOM 11381	N	SER D1007	115.667	59.948	41.333	1.00	0.00	N
ATOM 11382	CA	SER D1007	116.604	61.004	41.568	1.00	0.00	C
ATOM 11383	C	SER D1007	117.022	60.978	43.003	1.00	0.00	C
ATOM 11384	O	SER D1007	118.214	60.986	43.308	1.00	0.00	O
ATOM 11385	CB	SER D1007	116.007	62.396	41.286	1.00	0.00	C
ATOM 11386	OG	SER D1007	116.974	63.406	41.537	1.00	0.00	O
ATOM 11387	N	ARG D1008	116.043	60.935	43.925	1.00	0.00	N
ATOM 11388	CA	ARG D1008	116.361	60.990	45.325	1.00	0.00	C
ATOM 11389	C	ARG D1008	117.150	59.787	45.715	1.00	0.00	C

ATOM 11390 O ARG D1008	118.170	59.893	46.393	1.00	0.00	O
ATOM 11391 CB ARG D1008	115.109	61.036	46.217	1.00	0.00	C
ATOM 11392 CG ARG D1008	115.425	61.097	47.714	1.00	0.00	C
ATOM 11393 CD ARG D1008	114.174	61.203	48.592	1.00	0.00	C
ATOM 11394 NE ARG D1008	114.621	61.198	50.015	1.00	0.00	N
ATOM 11395 CZ ARG D1008	114.599	60.036	50.729	1.00	0.00	C
ATOM 11396 NH1 ARG D1008	114.126	58.892	50.159	1.00	0.00	N
ATOM 11397 NH2 ARG D1008	115.047	60.018	52.020	1.00	0.00	N
ATOM 11398 N LEU D1009	116.699	58.601	45.271	1.00	0.00	N
ATOM 11399 CA LEU D1009	117.335	57.371	45.634	1.00	0.00	C
ATOM 11400 C LEU D1009	118.693	57.278	45.023	1.00	0.00	C
ATOM 11401 O LEU D1009	119.545	56.550	45.533	1.00	0.00	O
ATOM 11402 CB LEU D1009	116.534	56.107	45.293	1.00	0.00	C
ATOM 11403 CG LEU D1009	115.289	55.963	46.184	1.00	0.00	C
ATOM 11404 CD1 LEU D1009	114.700	54.551	46.092	1.00	0.00	C
ATOM 11405 CD2 LEU D1009	115.585	56.389	47.632	1.00	0.00	C
ATOM 11406 N ASN D1010	118.915	57.943	43.876	1.00	0.00	N
ATOM 11407 CA ASN D1010	120.218	57.843	43.292	1.00	0.00	C
ATOM 11408 C ASN D1010	121.124	58.881	43.942	1.00	0.00	C
ATOM 11409 O ASN D1010	120.682	59.500	44.946	1.00	0.00	O
ATOM 11410 CB ASN D1010	120.238	58.074	41.769	1.00	0.00	C
ATOM 11411 CG ASN D1010	121.523	57.452	41.231	1.00	0.00	C
ATOM 11412 ND2 ASN D1010	121.670	57.426	39.880	1.00	0.00	N
ATOM 11413 OD1 ASN D1010	122.371	56.988	41.993	1.00	0.00	O
ATOM 11414 OXT ASN D1010	122.273	59.062	43.455	1.00	0.00	O1-
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