

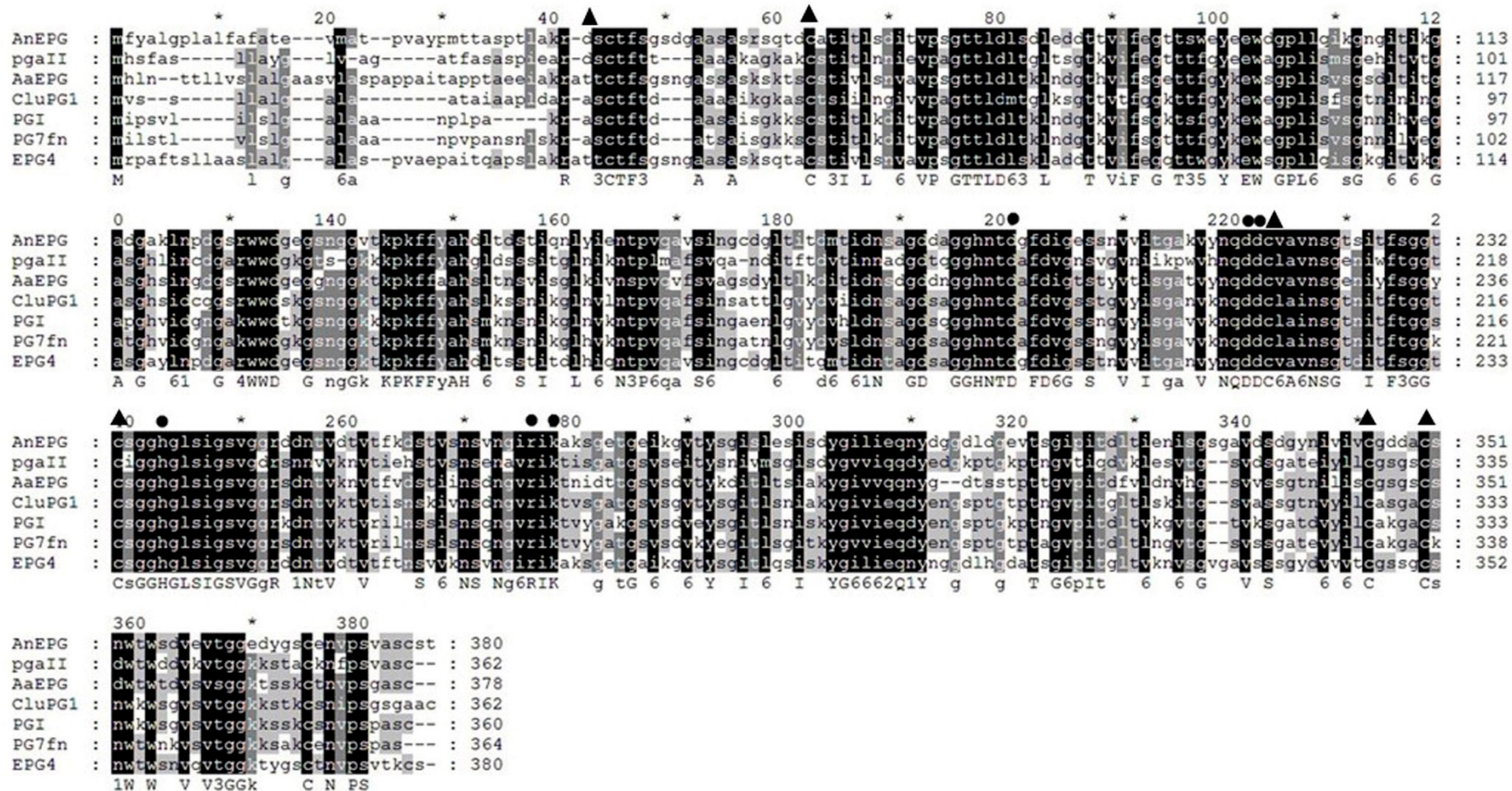


Figure S1. Multiple amino acid sequence alignment of GH 28 endo-PGs. The homologous sequences were found using BLASTp at NCBI. Sequences included in the alignment were derived from *Aspergillus niger* (pgaII, Genbank accession no. CAA41694) [31], *Aspergillus aculeatus* (AaEPG, Genbank accession no. AC23565) [15], *Colletotrichum lupini var. setosum* (CluPG1, Genbank accession no ABL01533) [33], *Achaetomium* sp. Xz8 (PG I, Genbank accession no. AGR51994)

[22], *Thielavia arenaria* XZ7 (endo-PG7fn, Genbank accession no. AIZ95162) [24], *Penicillium oxalicum* CZ1028 (EPG4, Genbank accession no. APZ75903.1) [17], *Aspergillus mulundensis* (hypothetical protein, Genbank accession no. XP_026600476.1), *Aspergillus calidoustus* (putative glycoside hydrolase family 28, Genbank accession no. CEN62944.1), *Penicillium antarcticum* (hypothetical protein, OQD89725.1), but only some representatives are displayed here. Putative conserved residues involved in enzyme catalysis and substrate binding were marked with black dots. Highly conserved disulfide bonds were marked with black triangles.

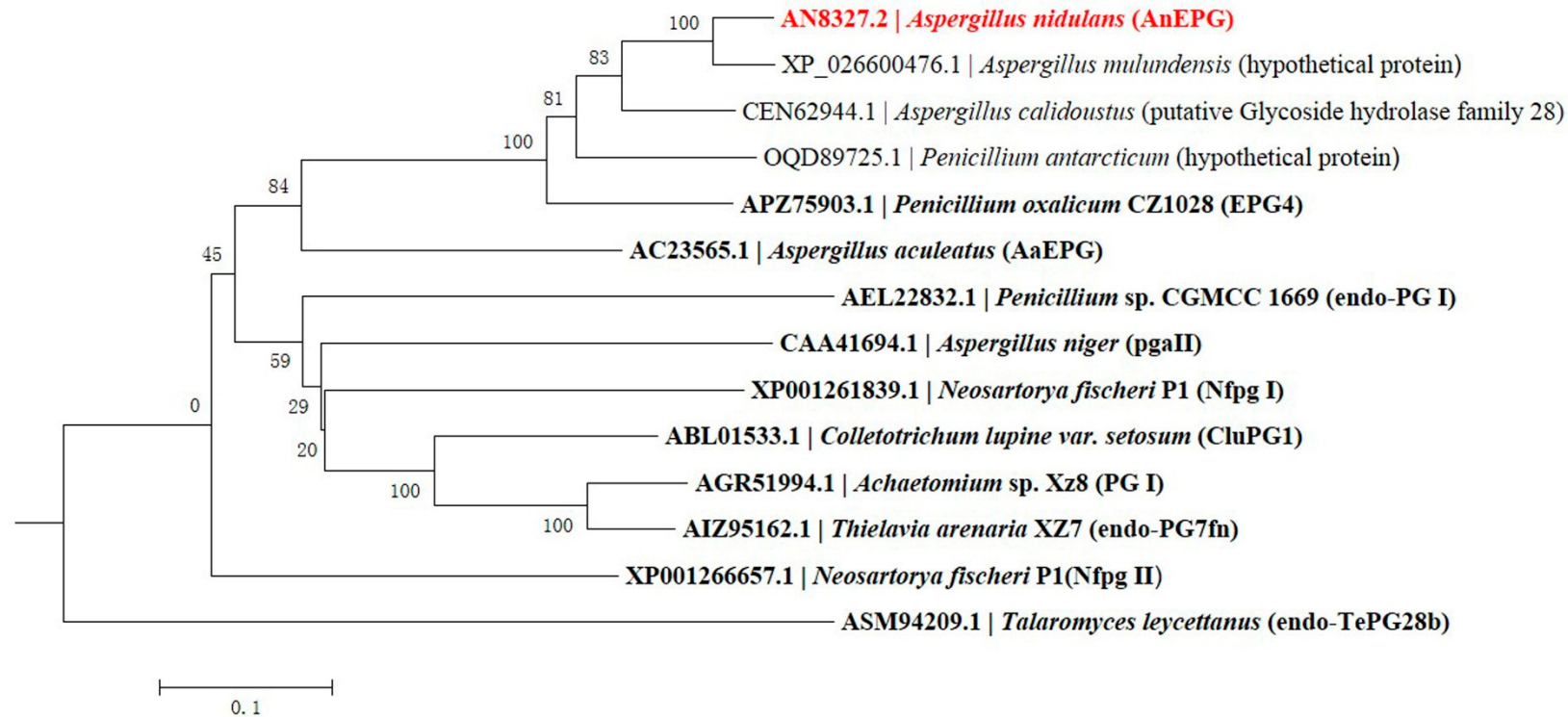


Figure S2. Phylogenetic analysis of GH 28 endo-PGs. The homologous sequences were found using BLASTp at NCBI. Sequences included in the alignment were derived from *Aspergillus niger* (pgaII, Genbank accession no. CAA41694) [31], *Aspergillus aculeatus* (AaEPG, Genbank accession no. AC23565) [15], *Colletotrichum lupini* var. *setosum* (CluPG1, Genbank accession no. ABL01533) [33], *Achaetomium* sp. Xz8 (PG I, Genbank accession no. AGR51994) [22], *Thielavia*

arenaria XZ7 (endo-PG7fn, Genbank accession no. AIZ95162) [24], *Penicillium oxalicum* CZ1028 (EPG4, Genbank accession no. APZ75903.1) [17], *Aspergillus mulundensis* (hypothetical protein, Genbank accession no. XP_026600476.1), *Aspergillus calidoustus* (putative glycoside hydrolase family 28, Genbank accession no. CEN62944.1), *Penicillium antarcticum* (hypothetical protein, OQD89725.1), but only some representatives are displayed here. AnEPG was highlighted in bold and red. Characterized GH 28 endo-PGs were marked in bold.

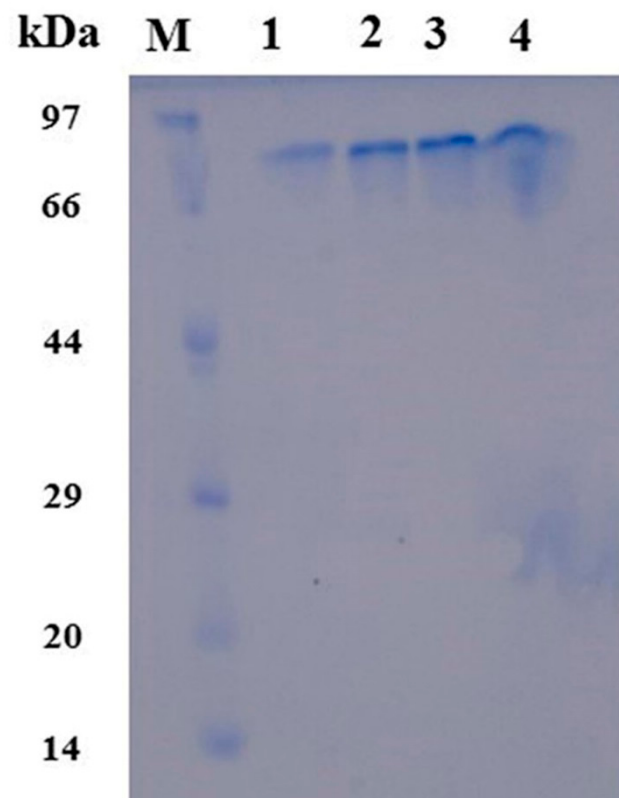


Figure S3. SDS-PAGE analysis of overexpressed AnEPG over induction time. M, protein marker; Lane 1, induced with 0.5% methanol for 24 h; Lane 2 induced with 0.5% methanol for 48 h; Lane 3, induced with 0.5% methanol for 72 h; Lane 4, induced with 0.5% methanol for 96 h.

Table S1. Comparison of effects of divalent metal ions on different GH 28 endo-PGs. ND, not determined.

	Ni ²⁺	Ba ²⁺	Ca ²⁺	Cu ²⁺	Mn ²⁺	Zn ²⁺	Co ²⁺	Mg ²⁺	Fe ²⁺	Pb ²⁺	Ref
AnEPG	↑ 9.4%	↑ 12.2%	↓ 14.8%	↓ 12.8%	↓ 10.2%	No effect	No effect	No effect	No effect	No effect	This study
endo-PG I	↓ partial	ND	↓ strong	↓ strong	↓ partial	↓ strong	↓ partial	No effect	ND	↓ strong	[18]
Nfpg II	↓ 70.2%	ND	↓ 9.0%	↓ 60.6%	No effect	↓ 6.8%	↑ 42.6%	↓ 18.7%	ND	↑ 8.6%	[20]
PGA-ZJ5A	↓ 26.7%	ND	↓ 46.8%	ND	↓ 10.5%	↓ 29.5%	↓ 8.4%	↓ 11.5%	No effect	↓ 64.8%	[12]
endo-PGA1	No effect	ND	↓ 43.8%	↓ 77.8%	↑ 41.2%	↓ 31.4%	No effect	No effect	ND	↓ 85.5%	[21]
PG7fn	No effect	ND	↓ partial	No effect	No effect	No effect	No effect	No effect	ND	No effect	[24]
PG I	No effect	ND	↓ strong	↓ <40%	ND	No effect	No effect	↓ <40%	ND	No effect	[22]
AaEPG	ND	ND	No effect	↑ 12.7%	↓ 26.2%	↓ 11.2%	ND	↓ 4.4%	↑ 12.0%	ND	[15]
PG2	ND	↓ 57.5%	↓ 3.1%	↓ 96.4%	↓ 100%	ND	↓ 80.7%	↑ 32.9%	↓ 13.4%	ND	[19]

Coordinates of modelled structure of AnEPG without the 36 (predicted signal peptide by Signal P 4.0) initial N-terminal amino acids

ATOM	1	N	ASP	A	1	96.198	61.001	59.909	1.00	4.06
ATOM	2	CA	ASP	A	1	96.401	59.914	58.945	1.00	4.06
ATOM	3	HA	ASP	A	1	96.887	60.352	58.074	1.00	4.06
ATOM	4	CB	ASP	A	1	97.385	58.879	59.522	1.00	4.06
ATOM	5	HB1	ASP	A	1	96.857	58.198	60.191	1.00	4.06
ATOM	6	HB2	ASP	A	1	98.155	59.394	60.100	1.00	4.06
ATOM	7	CG	ASP	A	1	98.079	58.098	58.400	1.00	4.06
ATOM	8	OD1	ASP	A	1	97.566	57.008	58.058	1.00	4.06
ATOM	9	OD2	ASP	A	1	99.069	58.619	57.842	1.00	4.06
ATOM	10	C	ASP	A	1	95.057	59.337	58.456	1.00	4.06
ATOM	11	O	ASP	A	1	94.027	60.014	58.510	1.00	4.06
ATOM	12	N	SER	A	2	95.010	58.117	57.918	1.00	3.44
ATOM	13	H	SER	A	2	95.862	57.553	57.928	1.00	3.44
ATOM	14	CA	SER	A	2	93.782	57.499	57.410	1.00	3.44
ATOM	15	HA	SER	A	2	92.936	58.003	57.873	1.00	3.44
ATOM	16	CB	SER	A	2	93.615	57.725	55.914	1.00	3.44
ATOM	17	HB1	SER	A	2	92.848	57.058	55.517	1.00	3.44
ATOM	18	HB2	SER	A	2	94.560	57.553	55.397	1.00	3.44
ATOM	19	OG	SER	A	2	93.188	59.070	55.764	1.00	3.44
ATOM	20	HG	SER	A	2	93.685	59.584	56.423	1.00	3.44
ATOM	21	C	SER	A	2	93.634	56.048	57.838	1.00	3.44
ATOM	22	O	SER	A	2	94.000	55.095	57.152	1.00	3.44
ATOM	23	N	CYS	A	3	93.043	55.912	59.019	1.00	2.63
ATOM	24	H	CYS	A	3	92.739	56.757	59.485	1.00	2.63
ATOM	25	CA	CYS	A	3	92.693	54.654	59.644	1.00	2.63
ATOM	26	HA	CYS	A	3	93.595	54.045	59.731	1.00	2.63
ATOM	27	CB	CYS	A	3	92.184	54.985	61.043	1.00	2.63
ATOM	28	HB1	CYS	A	3	91.882	54.066	61.539	1.00	2.63
ATOM	29	HB2	CYS	A	3	91.314	55.636	60.955	1.00	2.63
ATOM	30	SG	CYS	A	3	93.419	55.818	62.070	1.00	2.63
ATOM	31	C	CYS	A	3	91.646	53.877	58.843	1.00	2.63
ATOM	32	O	CYS	A	3	90.697	54.466	58.334	1.00	2.63
ATOM	33	N	THR	A	4	91.723	52.545	58.846	1.00	2.06
ATOM	34	H	THR	A	4	92.519	52.100	59.282	1.00	2.06
ATOM	35	CA	THR	A	4	90.562	51.710	58.517	1.00	2.06
ATOM	36	HA	THR	A	4	89.677	52.339	58.584	1.00	2.06
ATOM	37	CB	THR	A	4	90.570	51.162	57.080	1.00	2.06
ATOM	38	HB	THR	A	4	90.699	52.003	56.398	1.00	2.06
ATOM	39	CG2	THR	A	4	91.664	50.136	56.789	1.00	2.06
ATOM	40	1HG2	THR	A	4	91.646	49.879	55.730	1.00	2.06

ATOM	41	2HG2	THR	A	4	92.639	50.557	57.031	1.00	2.06
ATOM	42	3HG2	THR	A	4	91.503	49.233	57.378	1.00	2.06
ATOM	43	OG1	THR	A	4	89.321	50.552	56.801	1.00	2.06
ATOM	44	HG1	THR	A	4	89.291	50.387	55.849	1.00	2.06
ATOM	45	C	THR	A	4	90.363	50.626	59.564	1.00	2.06
ATOM	46	O	THR	A	4	91.311	49.951	59.967	1.00	2.06
ATOM	47	N	PHE	A	5	89.129	50.504	60.050	1.00	1.75
ATOM	48	H	PHE	A	5	88.387	51.085	59.668	1.00	1.75
ATOM	49	CA	PHE	A	5	88.797	49.656	61.183	1.00	1.75
ATOM	50	HA	PHE	A	5	89.622	48.970	61.368	1.00	1.75
ATOM	51	CB	PHE	A	5	88.580	50.491	62.455	1.00	1.75
ATOM	52	HB1	PHE	A	5	88.250	49.823	63.251	1.00	1.75
ATOM	53	HB2	PHE	A	5	87.771	51.199	62.271	1.00	1.75
ATOM	54	CG	PHE	A	5	89.801	51.239	62.964	1.00	1.75
ATOM	55	CD1	PHE	A	5	91.040	50.582	63.112	1.00	1.75
ATOM	56	HD1	PHE	A	5	91.145	49.542	62.845	1.00	1.75
ATOM	57	CE1	PHE	A	5	92.166	51.283	63.576	1.00	1.75
ATOM	58	HE1	PHE	A	5	93.125	50.788	63.655	1.00	1.75
ATOM	59	CZ	PHE	A	5	92.053	52.638	63.922	1.00	1.75
ATOM	60	HZ	PHE	A	5	92.925	53.183	64.256	1.00	1.75
ATOM	61	CE2	PHE	A	5	90.814	53.290	63.807	1.00	1.75
ATOM	62	HE2	PHE	A	5	90.736	54.333	64.079	1.00	1.75
ATOM	63	CD2	PHE	A	5	89.695	52.598	63.312	1.00	1.75
ATOM	64	HD2	PHE	A	5	88.750	53.112	63.210	1.00	1.75
ATOM	65	C	PHE	A	5	87.577	48.805	60.865	1.00	1.75
ATOM	66	O	PHE	A	5	86.509	49.331	60.559	1.00	1.75
ATOM	67	N	SER	A	6	87.775	47.486	60.901	1.00	1.91
ATOM	68	H	SER	A	6	88.680	47.157	61.188	1.00	1.91
ATOM	69	CA	SER	A	6	87.013	46.584	60.033	1.00	1.91
ATOM	70	HA	SER	A	6	86.483	47.213	59.321	1.00	1.91
ATOM	71	CB	SER	A	6	87.950	45.745	59.159	1.00	1.91
ATOM	72	HB1	SER	A	6	87.374	45.244	58.378	1.00	1.91
ATOM	73	HB2	SER	A	6	88.468	45.004	59.769	1.00	1.91
ATOM	74	OG	SER	A	6	88.897	46.607	58.563	1.00	1.91
ATOM	75	HG	SER	A	6	88.394	47.294	58.094	1.00	1.91
ATOM	76	C	SER	A	6	85.882	45.857	60.731	1.00	1.91
ATOM	77	O	SER	A	6	85.111	46.578	61.350	1.00	1.91
ATOM	78	N	GLY	A	7	85.842	44.520	60.588	1.00	2.24
ATOM	79	H	GLY	A	7	86.334	44.221	59.766	1.00	2.24
ATOM	80	CA	GLY	A	7	85.219	43.390	61.306	1.00	2.24
ATOM	81	HA1	GLY	A	7	85.919	42.559	61.232	1.00	2.24
ATOM	82	HA2	GLY	A	7	84.340	43.084	60.739	1.00	2.24
ATOM	83	C	GLY	A	7	84.769	43.487	62.777	1.00	2.24
ATOM	84	O	GLY	A	7	84.260	44.482	63.305	1.00	2.24

ATOM	85	N	SER	A	8	84.900	42.326	63.432	1.00	2.33
ATOM	86	H	SER	A	8	85.181	41.526	62.886	1.00	2.33
ATOM	87	CA	SER	A	8	84.354	42.034	64.764	1.00	2.33
ATOM	88	HA	SER	A	8	83.304	42.283	64.735	1.00	2.33
ATOM	89	CB	SER	A	8	84.465	40.542	65.088	1.00	2.33
ATOM	90	HB1	SER	A	8	84.004	40.349	66.058	1.00	2.33
ATOM	91	HB2	SER	A	8	85.516	40.252	65.124	1.00	2.33
ATOM	92	OG	SER	A	8	83.793	39.799	64.090	1.00	2.33
ATOM	93	HG	SER	A	8	83.732	38.880	64.367	1.00	2.33
ATOM	94	C	SER	A	8	84.936	42.839	65.926	1.00	2.33
ATOM	95	O	SER	A	8	84.200	43.159	66.856	1.00	2.33
ATOM	96	N	ASP	A	9	86.218	43.201	65.858	1.00	1.93
ATOM	97	H	ASP	A	9	86.749	42.917	65.052	1.00	1.93
ATOM	98	CA	ASP	A	9	86.863	44.118	66.810	1.00	1.93
ATOM	99	HA	ASP	A	9	86.397	44.025	67.793	1.00	1.93
ATOM	100	CB	ASP	A	9	88.359	43.754	66.946	1.00	1.93
ATOM	101	HB1	ASP	A	9	88.825	43.801	65.959	1.00	1.93
ATOM	102	HB2	ASP	A	9	88.439	42.726	67.304	1.00	1.93
ATOM	103	CG	ASP	A	9	89.135	44.675	67.912	1.00	1.93
ATOM	104	OD1	ASP	A	9	88.919	44.584	69.139	1.00	1.93
ATOM	105	OD2	ASP	A	9	89.961	45.505	67.472	1.00	1.93
ATOM	106	C	ASP	A	9	86.760	45.594	66.379	1.00	1.93
ATOM	107	O	ASP	A	9	87.141	46.502	67.129	1.00	1.93
ATOM	108	N	GLY	A	10	86.262	45.859	65.162	1.00	1.36
ATOM	109	H	GLY	A	10	85.820	45.127	64.619	1.00	1.36
ATOM	110	CA	GLY	A	10	86.441	47.158	64.523	1.00	1.36
ATOM	111	HA1	GLY	A	10	85.930	47.149	63.564	1.00	1.36
ATOM	112	HA2	GLY	A	10	87.502	47.333	64.348	1.00	1.36
ATOM	113	C	GLY	A	10	85.884	48.332	65.325	1.00	1.36
ATOM	114	O	GLY	A	10	86.473	49.408	65.319	1.00	1.36
ATOM	115	N	ALA	A	11	84.823	48.100	66.100	1.00	0.93
ATOM	116	H	ALA	A	11	84.399	47.187	66.050	1.00	0.93
ATOM	117	CA	ALA	A	11	84.283	49.077	67.041	1.00	0.93
ATOM	118	HA	ALA	A	11	84.083	49.996	66.488	1.00	0.93
ATOM	119	CB	ALA	A	11	82.944	48.532	67.559	1.00	0.93
ATOM	120	HB1	ALA	A	11	82.478	49.271	68.214	1.00	0.93
ATOM	121	HB2	ALA	A	11	82.275	48.337	66.719	1.00	0.93
ATOM	122	HB3	ALA	A	11	83.102	47.610	68.119	1.00	0.93
ATOM	123	C	ALA	A	11	85.224	49.460	68.195	1.00	0.93
ATOM	124	O	ALA	A	11	85.368	50.637	68.537	1.00	0.93
ATOM	125	N	ALA	A	12	85.889	48.466	68.780	1.00	0.93
ATOM	126	H	ALA	A	12	85.838	47.543	68.366	1.00	0.93
ATOM	127	CA	ALA	A	12	86.847	48.671	69.857	1.00	0.93
ATOM	128	HA	ALA	A	12	86.405	49.337	70.600	1.00	0.93

ATOM	129	CB	ALA	A	12	87.101	47.324	70.530	1.00	0.93
ATOM	130	HB1	ALA	A	12	87.747	47.471	71.395	1.00	0.93
ATOM	131	HB2	ALA	A	12	86.158	46.894	70.870	1.00	0.93
ATOM	132	HB3	ALA	A	12	87.571	46.639	69.826	1.00	0.93
ATOM	133	C	ALA	A	12	88.119	49.349	69.334	1.00	0.93
ATOM	134	O	ALA	A	12	88.578	50.310	69.944	1.00	0.93
ATOM	135	N	SER	A	13	88.664	48.936	68.183	1.00	0.86
ATOM	136	H	SER	A	13	88.296	48.107	67.723	1.00	0.86
ATOM	137	CA	SER	A	13	89.823	49.656	67.621	1.00	0.86
ATOM	138	HA	SER	A	13	90.591	49.715	68.385	1.00	0.86
ATOM	139	CB	SER	A	13	90.402	48.913	66.420	1.00	0.86
ATOM	140	HB1	SER	A	13	89.793	49.082	65.531	1.00	0.86
ATOM	141	HB2	SER	A	13	90.437	47.844	66.629	1.00	0.86
ATOM	142	OG	SER	A	13	91.721	49.375	66.215	1.00	0.86
ATOM	143	HG	SER	A	13	91.694	50.233	65.767	1.00	0.86
ATOM	144	C	SER	A	13	89.510	51.093	67.204	1.00	0.86
ATOM	145	O	SER	A	13	90.327	51.986	67.431	1.00	0.86
ATOM	146	N	ALA	A	14	88.319	51.329	66.643	1.00	0.75
ATOM	147	H	ALA	A	14	87.700	50.556	66.425	1.00	0.75
ATOM	148	CA	ALA	A	14	87.857	52.673	66.349	1.00	0.75
ATOM	149	HA	ALA	A	14	88.569	53.140	65.671	1.00	0.75
ATOM	150	CB	ALA	A	14	86.494	52.620	65.645	1.00	0.75
ATOM	151	HB1	ALA	A	14	86.173	53.635	65.404	1.00	0.75
ATOM	152	HB2	ALA	A	14	86.575	52.048	64.720	1.00	0.75
ATOM	153	HB3	ALA	A	14	85.744	52.160	66.289	1.00	0.75
ATOM	154	C	ALA	A	14	87.837	53.527	67.615	1.00	0.75
ATOM	155	O	ALA	A	14	88.600	54.475	67.705	1.00	0.75
ATOM	156	N	SER	A	15	87.109	53.116	68.650	1.00	0.86
ATOM	157	H	SER	A	15	86.533	52.290	68.547	1.00	0.86
ATOM	158	CA	SER	A	15	87.046	53.887	69.902	1.00	0.86
ATOM	159	HA	SER	A	15	86.741	54.900	69.636	1.00	0.86
ATOM	160	CB	SER	A	15	85.937	53.345	70.811	1.00	0.86
ATOM	161	HB1	SER	A	15	84.970	53.616	70.385	1.00	0.86
ATOM	162	HB2	SER	A	15	86.018	53.805	71.797	1.00	0.86
ATOM	163	OG	SER	A	15	86.004	51.934	70.929	1.00	0.86
ATOM	164	HG	SER	A	15	85.636	51.549	70.117	1.00	0.86
ATOM	165	C	SER	A	15	88.373	54.053	70.669	1.00	0.86
ATOM	166	O	SER	A	15	88.530	55.023	71.408	1.00	0.86
ATOM	167	N	ARG	A	16	89.358	53.165	70.471	1.00	0.93
ATOM	168	H	ARG	A	16	89.125	52.336	69.937	1.00	0.93
ATOM	169	CA	ARG	A	16	90.747	53.343	70.952	1.00	0.93
ATOM	170	HA	ARG	A	16	90.751	53.655	71.997	1.00	0.93
ATOM	171	CB	ARG	A	16	91.540	52.019	70.783	1.00	0.93
ATOM	172	HB1	ARG	A	16	92.598	52.228	70.963	1.00	0.93

ATOM	173	HB2	ARG	A	16	91.455	51.729	69.736	1.00	0.93
ATOM	174	CG	ARG	A	16	91.177	50.799	71.654	1.00	0.93
ATOM	175	HG1	ARG	A	16	90.100	50.686	71.708	1.00	0.93
ATOM	176	HG2	ARG	A	16	91.537	50.960	72.670	1.00	0.93
ATOM	177	CD	ARG	A	16	91.834	49.524	71.065	1.00	0.93
ATOM	178	HD1	ARG	A	16	92.850	49.447	71.457	1.00	0.93
ATOM	179	HD2	ARG	A	16	91.923	49.636	69.986	1.00	0.93
ATOM	180	NE	ARG	A	16	91.096	48.272	71.365	1.00	0.93
ATOM	181	HE	ARG	A	16	90.733	48.181	72.297	1.00	0.93
ATOM	182	CZ	ARG	A	16	90.817	47.268	70.537	1.00	0.93
ATOM	183	NH1	ARG	A	16	91.166	47.247	69.282	1.00	0.93
ATOM	184	1HH1	ARG	A	16	91.686	47.996	68.869	1.00	0.93
ATOM	185	2HH1	ARG	A	16	90.794	46.508	68.668	1.00	0.93
ATOM	186	NH2	ARG	A	16	90.141	46.240	70.957	1.00	0.93
ATOM	187	1HH2	ARG	A	16	89.830	46.151	71.900	1.00	0.93
ATOM	188	2HH2	ARG	A	16	89.811	45.559	70.257	1.00	0.93
ATOM	189	C	ARG	A	16	91.552	54.383	70.177	1.00	0.93
ATOM	190	O	ARG	A	16	92.362	55.058	70.801	1.00	0.93
ATOM	191	N	SER	A	17	91.407	54.430	68.848	1.00	0.89
ATOM	192	H	SER	A	17	90.702	53.844	68.417	1.00	0.89
ATOM	193	CA	SER	A	17	92.357	55.148	67.975	1.00	0.89
ATOM	194	HA	SER	A	17	93.164	55.540	68.597	1.00	0.89
ATOM	195	CB	SER	A	17	93.026	54.245	66.930	1.00	0.89
ATOM	196	HB1	SER	A	17	92.832	54.635	65.930	1.00	0.89
ATOM	197	HB2	SER	A	17	92.620	53.235	66.996	1.00	0.89
ATOM	198	OG	SER	A	17	94.428	54.195	67.130	1.00	0.89
ATOM	199	HG	SER	A	17	94.807	55.108	66.987	1.00	0.89
ATOM	200	C	SER	A	17	91.774	56.386	67.313	1.00	0.89
ATOM	201	O	SER	A	17	92.492	57.132	66.675	1.00	0.89
ATOM	202	N	GLN	A	18	90.480	56.651	67.478	1.00	0.85
ATOM	203	H	GLN	A	18	89.922	55.955	67.957	1.00	0.85
ATOM	204	CA	GLN	A	18	89.754	57.721	66.801	1.00	0.85
ATOM	205	HA	GLN	A	18	89.688	57.449	65.747	1.00	0.85
ATOM	206	CB	GLN	A	18	88.305	57.799	67.335	1.00	0.85
ATOM	207	HB1	GLN	A	18	87.797	56.885	67.025	1.00	0.85
ATOM	208	HB2	GLN	A	18	87.803	58.627	66.839	1.00	0.85
ATOM	209	CG	GLN	A	18	88.130	57.963	68.864	1.00	0.85
ATOM	210	HG1	GLN	A	18	88.480	58.954	69.147	1.00	0.85
ATOM	211	HG2	GLN	A	18	88.728	57.223	69.394	1.00	0.85
ATOM	212	CD	GLN	A	18	86.679	57.807	69.340	1.00	0.85
ATOM	213	OE1	GLN	A	18	85.863	57.158	68.711	1.00	0.85
ATOM	214	NE2	GLN	A	18	86.313	58.402	70.456	1.00	0.85
ATOM	215	1HE2	GLN	A	18	86.937	59.051	70.898	1.00	0.85
ATOM	216	2HE2	GLN	A	18	85.323	58.443	70.645	1.00	0.85

ATOM	217	C	GLN	A	18	90.510	59.063	66.825	1.00	0.85
ATOM	218	O	GLN	A	18	90.727	59.679	65.781	1.00	0.85
ATOM	219	N	THR	A	19	91.025	59.444	67.994	1.00	0.87
ATOM	220	H	THR	A	19	90.913	58.837	68.793	1.00	0.87
ATOM	221	CA	THR	A	19	91.762	60.691	68.220	1.00	0.87
ATOM	222	HA	THR	A	19	91.181	61.503	67.786	1.00	0.87
ATOM	223	CB	THR	A	19	91.882	60.955	69.735	1.00	0.87
ATOM	224	HB	THR	A	19	92.494	61.839	69.916	1.00	0.87
ATOM	225	CG2	THR	A	19	90.524	61.186	70.399	1.00	0.87
ATOM	226	1HG2	THR	A	19	90.000	61.996	69.891	1.00	0.87
ATOM	227	2HG2	THR	A	19	89.922	60.281	70.369	1.00	0.87
ATOM	228	3HG2	THR	A	19	90.680	61.475	71.438	1.00	0.87
ATOM	229	OG1	THR	A	19	92.471	59.834	70.370	1.00	0.87
ATOM	230	HG1	THR	A	19	93.399	59.823	70.112	1.00	0.87
ATOM	231	C	THR	A	19	93.167	60.809	67.599	1.00	0.87
ATOM	232	O	THR	A	19	93.858	61.789	67.864	1.00	0.87
ATOM	233	N	ASP	A	20	93.626	59.849	66.799	1.00	0.97
ATOM	234	H	ASP	A	20	93.075	59.003	66.678	1.00	0.97
ATOM	235	CA	ASP	A	20	94.840	59.977	65.981	1.00	0.97
ATOM	236	HA	ASP	A	20	95.327	60.925	66.206	1.00	0.97
ATOM	237	CB	ASP	A	20	95.851	58.868	66.350	1.00	0.97
ATOM	238	HB1	ASP	A	20	96.061	58.939	67.419	1.00	0.97
ATOM	239	HB2	ASP	A	20	96.788	59.070	65.828	1.00	0.97
ATOM	240	CG	ASP	A	20	95.417	57.429	66.017	1.00	0.97
ATOM	241	OD1	ASP	A	20	95.448	56.574	66.936	1.00	0.97
ATOM	242	OD2	ASP	A	20	95.087	57.161	64.849	1.00	0.97
ATOM	243	C	ASP	A	20	94.538	60.031	64.472	1.00	0.97
ATOM	244	O	ASP	A	20	95.419	60.367	63.683	1.00	0.97
ATOM	245	N	CYS	A	21	93.281	59.784	64.082	1.00	0.95
ATOM	246	H	CYS	A	21	92.588	59.604	64.795	1.00	0.95
ATOM	247	CA	CYS	A	21	92.910	59.474	62.708	1.00	0.95
ATOM	248	HA	CYS	A	21	93.785	59.138	62.146	1.00	0.95
ATOM	249	CB	CYS	A	21	91.876	58.337	62.756	1.00	0.95
ATOM	250	HB1	CYS	A	21	91.535	58.150	61.739	1.00	0.95
ATOM	251	HB2	CYS	A	21	91.030	58.716	63.330	1.00	0.95
ATOM	252	SG	CYS	A	21	92.304	56.741	63.489	1.00	0.95
ATOM	253	C	CYS	A	21	92.252	60.653	61.984	1.00	0.95
ATOM	254	O	CYS	A	21	91.074	60.919	62.224	1.00	0.95
ATOM	255	N	ALA	A	22	92.927	61.331	61.046	1.00	0.97
ATOM	256	H	ALA	A	22	93.877	61.064	60.807	1.00	0.97
ATOM	257	CA	ALA	A	22	92.309	62.463	60.332	1.00	0.97
ATOM	258	HA	ALA	A	22	91.897	63.151	61.072	1.00	0.97
ATOM	259	CB	ALA	A	22	93.400	63.218	59.565	1.00	0.97
ATOM	260	HB1	ALA	A	22	92.974	64.111	59.105	1.00	0.97

ATOM	261	HB2	ALA	A	22	94.193	63.514	60.253	1.00	0.97
ATOM	262	HB3	ALA	A	22	93.826	62.584	58.788	1.00	0.97
ATOM	263	C	ALA	A	22	91.153	62.040	59.400	1.00	0.97
ATOM	264	O	ALA	A	22	90.162	62.761	59.210	1.00	0.97
ATOM	265	N	THR	A	23	91.221	60.810	58.893	1.00	1.09
ATOM	266	H	THR	A	23	92.088	60.299	59.032	1.00	1.09
ATOM	267	CA	THR	A	23	90.059	60.092	58.384	1.00	1.09
ATOM	268	HA	THR	A	23	89.185	60.632	58.735	1.00	1.09
ATOM	269	CB	THR	A	23	89.946	60.082	56.846	1.00	1.09
ATOM	270	HB	THR	A	23	88.884	60.080	56.614	1.00	1.09
ATOM	271	CG2	THR	A	23	90.579	61.266	56.111	1.00	1.09
ATOM	272	1HG2	THR	A	23	90.366	61.192	55.045	1.00	1.09
ATOM	273	2HG2	THR	A	23	90.177	62.203	56.493	1.00	1.09
ATOM	274	3HG2	THR	A	23	91.660	61.268	56.256	1.00	1.09
ATOM	275	OG1	THR	A	23	90.463	58.921	56.261	1.00	1.09
ATOM	276	HG1	THR	A	23	91.429	59.019	56.187	1.00	1.09
ATOM	277	C	THR	A	23	89.966	58.704	59.010	1.00	1.09
ATOM	278	O	THR	A	23	90.961	58.049	59.319	1.00	1.09
ATOM	279	N	ILE	A	24	88.727	58.272	59.220	1.00	1.37
ATOM	280	H	ILE	A	24	87.977	58.925	59.041	1.00	1.37
ATOM	281	CA	ILE	A	24	88.357	57.008	59.840	1.00	1.37
ATOM	282	HA	ILE	A	24	89.248	56.393	59.972	1.00	1.37
ATOM	283	CB	ILE	A	24	87.690	57.215	61.227	1.00	1.37
ATOM	284	HB	ILE	A	24	86.738	57.727	61.081	1.00	1.37
ATOM	285	CG2	ILE	A	24	87.424	55.835	61.864	1.00	1.37
ATOM	286	1HG2	ILE	A	24	86.889	55.946	62.805	1.00	1.37
ATOM	287	2HG2	ILE	A	24	86.810	55.220	61.208	1.00	1.37
ATOM	288	3HG2	ILE	A	24	88.368	55.320	62.049	1.00	1.37
ATOM	289	CG1	ILE	A	24	88.538	58.062	62.197	1.00	1.37
ATOM	290	1HG1	ILE	A	24	88.891	58.963	61.696	1.00	1.37
ATOM	291	2HG1	ILE	A	24	89.399	57.470	62.498	1.00	1.37
ATOM	292	CD1	ILE	A	24	87.794	58.518	63.460	1.00	1.37
ATOM	293	HD1	ILE	A	24	88.433	59.197	64.025	1.00	1.37
ATOM	294	HD2	ILE	A	24	86.879	59.045	63.185	1.00	1.37
ATOM	295	HD3	ILE	A	24	87.550	57.667	64.094	1.00	1.37
ATOM	296	C	ILE	A	24	87.398	56.273	58.910	1.00	1.37
ATOM	297	O	ILE	A	24	86.243	56.668	58.746	1.00	1.37
ATOM	298	N	THR	A	25	87.854	55.190	58.301	1.00	1.22
ATOM	299	H	THR	A	25	88.794	54.859	58.493	1.00	1.22
ATOM	300	CA	THR	A	25	87.015	54.289	57.533	1.00	1.22
ATOM	301	HA	THR	A	25	86.161	54.817	57.117	1.00	1.22
ATOM	302	CB	THR	A	25	87.819	53.660	56.391	1.00	1.22
ATOM	303	HB	THR	A	25	88.606	53.037	56.804	1.00	1.22
ATOM	304	CG2	THR	A	25	86.960	52.839	55.441	1.00	1.22

ATOM	305	1HG2	THR	A	25	87.572	52.470	54.617	1.00	1.22
ATOM	306	2HG2	THR	A	25	86.542	51.982	55.962	1.00	1.22
ATOM	307	3HG2	THR	A	25	86.150	53.442	55.033	1.00	1.22
ATOM	308	OG1	THR	A	25	88.408	54.667	55.613	1.00	1.22
ATOM	309	HG1	THR	A	25	88.889	54.238	54.902	1.00	1.22
ATOM	310	C	THR	A	25	86.539	53.206	58.496	1.00	1.22
ATOM	311	O	THR	A	25	87.285	52.773	59.380	1.00	1.22
ATOM	312	N	LEU	A	26	85.289	52.787	58.337	1.00	1.04
ATOM	313	H	LEU	A	26	84.777	53.113	57.535	1.00	1.04
ATOM	314	CA	LEU	A	26	84.585	51.885	59.240	1.00	1.04
ATOM	315	HA	LEU	A	26	85.289	51.405	59.918	1.00	1.04
ATOM	316	CB	LEU	A	26	83.541	52.675	60.051	1.00	1.04
ATOM	317	HB1	LEU	A	26	82.902	51.971	60.584	1.00	1.04
ATOM	318	HB2	LEU	A	26	82.903	53.217	59.352	1.00	1.04
ATOM	319	CG	LEU	A	26	84.118	53.678	61.060	1.00	1.04
ATOM	320	HG	LEU	A	26	84.723	54.416	60.535	1.00	1.04
ATOM	321	CD1	LEU	A	26	82.951	54.396	61.725	1.00	1.04
ATOM	322	1HD1	LEU	A	26	83.331	55.197	62.356	1.00	1.04
ATOM	323	2HD1	LEU	A	26	82.309	54.837	60.963	1.00	1.04
ATOM	324	3HD1	LEU	A	26	82.370	53.698	62.325	1.00	1.04
ATOM	325	CD2	LEU	A	26	84.949	53.037	62.174	1.00	1.04
ATOM	326	1HD2	LEU	A	26	85.288	53.806	62.866	1.00	1.04
ATOM	327	2HD2	LEU	A	26	84.350	52.308	62.718	1.00	1.04
ATOM	328	3HD2	LEU	A	26	85.823	52.546	61.747	1.00	1.04
ATOM	329	C	LEU	A	26	83.911	50.774	58.405	1.00	1.04
ATOM	330	O	LEU	A	26	82.973	51.107	57.689	1.00	1.04
ATOM	331	N	SER	A	27	84.420	49.533	58.390	1.00	0.95
ATOM	332	H	SER	A	27	85.077	49.267	59.113	1.00	0.95
ATOM	333	CA	SER	A	27	84.577	48.801	57.123	1.00	0.95
ATOM	334	HA	SER	A	27	83.944	49.246	56.369	1.00	0.95
ATOM	335	CB	SER	A	27	86.006	48.936	56.554	1.00	0.95
ATOM	336	HB1	SER	A	27	86.066	49.895	56.046	1.00	0.95
ATOM	337	HB2	SER	A	27	86.171	48.166	55.800	1.00	0.95
ATOM	338	OG	SER	A	27	87.054	48.888	57.521	1.00	0.95
ATOM	339	HG	SER	A	27	87.753	49.493	57.224	1.00	0.95
ATOM	340	C	SER	A	27	84.149	47.336	57.269	1.00	0.95
ATOM	341	O	SER	A	27	84.960	46.471	57.603	1.00	0.95
ATOM	342	N	ASP	A	28	82.852	47.077	57.068	1.00	0.49
ATOM	343	H	ASP	A	28	82.277	47.847	56.740	1.00	0.49
ATOM	344	CA	ASP	A	28	82.168	45.851	57.503	1.00	0.49
ATOM	345	HA	ASP	A	28	81.106	45.974	57.379	1.00	0.49
ATOM	346	CB	ASP	A	28	82.510	44.639	56.593	1.00	0.49
ATOM	347	HB1	ASP	A	28	82.383	43.721	57.166	1.00	0.49
ATOM	348	HB2	ASP	A	28	83.554	44.682	56.279	1.00	0.49

ATOM	349	CG	ASP	A	28	81.590	44.523	55.370	1.00	0.49
ATOM	350	OD1	ASP	A	28	82.059	44.668	54.222	1.00	0.49
ATOM	351	OD2	ASP	A	28	80.368	44.300	55.576	1.00	0.49
ATOM	352	C	ASP	A	28	82.383	45.621	59.006	1.00	0.49
ATOM	353	O	ASP	A	28	82.997	44.639	59.443	1.00	0.49
ATOM	354	N	ILE	A	29	81.905	46.579	59.806	1.00	0.42
ATOM	355	H	ILE	A	29	81.360	47.314	59.387	1.00	0.42
ATOM	356	CA	ILE	A	29	81.951	46.451	61.276	1.00	0.42
ATOM	357	HA	ILE	A	29	82.915	46.079	61.579	1.00	0.42
ATOM	358	CB	ILE	A	29	81.678	47.803	62.009	1.00	0.42
ATOM	359	HB	ILE	A	29	80.614	47.986	61.900	1.00	0.42
ATOM	360	CG2	ILE	A	29	81.998	47.716	63.521	1.00	0.42
ATOM	361	1HG2	ILE	A	29	83.042	47.443	63.672	1.00	0.42
ATOM	362	2HG2	ILE	A	29	81.783	48.667	64.005	1.00	0.42
ATOM	363	3HG2	ILE	A	29	81.395	46.969	64.016	1.00	0.42
ATOM	364	CG1	ILE	A	29	82.388	49.059	61.419	1.00	0.42
ATOM	365	1HG1	ILE	A	29	81.672	49.884	61.481	1.00	0.42
ATOM	366	2HG1	ILE	A	29	82.582	48.910	60.357	1.00	0.42
ATOM	367	CD1	ILE	A	29	83.677	49.526	62.099	1.00	0.42
ATOM	368	HD1	ILE	A	29	84.374	48.710	62.253	1.00	0.42
ATOM	369	HD2	ILE	A	29	84.181	50.261	61.485	1.00	0.42
ATOM	370	HD3	ILE	A	29	83.474	49.991	63.063	1.00	0.42
ATOM	371	C	ILE	A	29	80.919	45.369	61.642	1.00	0.42
ATOM	372	O	ILE	A	29	79.822	45.270	61.026	1.00	0.42
ATOM	373	N	THR	A	30	81.185	44.668	62.746	1.00	0.46
ATOM	374	H	THR	A	30	82.090	44.773	63.170	1.00	0.46
ATOM	375	CA	THR	A	30	80.077	44.288	63.632	1.00	0.46
ATOM	376	HA	THR	A	30	79.342	43.683	63.114	1.00	0.46
ATOM	377	CB	THR	A	30	80.550	43.547	64.877	1.00	0.46
ATOM	378	HB	THR	A	30	79.799	43.497	65.657	1.00	0.46
ATOM	379	CG2	THR	A	30	80.817	42.067	64.523	1.00	0.46
ATOM	380	1HG2	THR	A	30	81.255	41.562	65.382	1.00	0.46
ATOM	381	2HG2	THR	A	30	79.865	41.593	64.288	1.00	0.46
ATOM	382	3HG2	THR	A	30	81.465	42.026	63.647	1.00	0.46
ATOM	383	OG1	THR	A	30	81.719	44.140	65.413	1.00	0.46
ATOM	384	HG1	THR	A	30	82.106	43.568	66.085	1.00	0.46
ATOM	385	C	THR	A	30	79.244	45.606	64.074	1.00	0.46
ATOM	386	O	THR	A	30	78.978	46.424	63.188	1.00	0.46
ATOM	387	N	VAL	A	31	78.669	45.832	65.269	1.00	0.51
ATOM	388	H	VAL	A	31	77.834	46.379	65.088	1.00	0.51
ATOM	389	CA	VAL	A	31	79.206	46.198	66.673	1.00	0.51
ATOM	390	HA	VAL	A	31	80.252	46.364	66.601	1.00	0.51
ATOM	391	CB	VAL	A	31	78.491	47.520	67.084	1.00	0.51
ATOM	392	HB	VAL	A	31	77.442	47.253	67.204	1.00	0.51

ATOM	393	CG1	VAL	A	31	79.013	48.089	68.395	1.00	0.51
ATOM	394	1HG1	VAL	A	31	78.508	49.030	68.612	1.00	0.51
ATOM	395	2HG1	VAL	A	31	78.782	47.427	69.227	1.00	0.51
ATOM	396	3HG1	VAL	A	31	80.086	48.272	68.359	1.00	0.51
ATOM	397	CG2	VAL	A	31	78.582	48.611	66.020	1.00	0.51
ATOM	398	1HG2	VAL	A	31	77.991	49.465	66.346	1.00	0.51
ATOM	399	2HG2	VAL	A	31	79.621	48.891	65.847	1.00	0.51
ATOM	400	3HG2	VAL	A	31	78.153	48.305	65.070	1.00	0.51
ATOM	401	C	VAL	A	31	78.833	45.118	67.672	1.00	0.51
ATOM	402	O	VAL	A	31	77.774	44.512	67.501	1.00	0.51
ATOM	403	N	PRO	A	32	79.621	44.835	68.713	1.00	1.03
ATOM	404	CD	PRO	A	32	80.976	45.316	68.958	1.00	1.03
ATOM	405	HD1	PRO	A	32	80.931	46.328	69.362	1.00	1.03
ATOM	406	HD2	PRO	A	32	81.575	45.285	68.047	1.00	1.03
ATOM	407	CG	PRO	A	32	81.563	44.376	70.007	1.00	1.03
ATOM	408	HG1	PRO	A	32	82.311	44.877	70.619	1.00	1.03
ATOM	409	HG2	PRO	A	32	81.997	43.503	69.519	1.00	1.03
ATOM	410	CB	PRO	A	32	80.338	43.957	70.817	1.00	1.03
ATOM	411	HB1	PRO	A	32	80.119	44.717	71.564	1.00	1.03
ATOM	412	HB2	PRO	A	32	80.492	42.995	71.305	1.00	1.03
ATOM	413	CA	PRO	A	32	79.214	43.909	69.781	1.00	1.03
ATOM	414	HA	PRO	A	32	79.187	42.906	69.345	1.00	1.03
ATOM	415	C	PRO	A	32	77.840	44.218	70.410	1.00	1.03
ATOM	416	O	PRO	A	32	77.422	45.375	70.566	1.00	1.03
ATOM	417	N	SER	A	33	77.171	43.154	70.862	1.00	1.00
ATOM	418	H	SER	A	33	77.527	42.229	70.693	1.00	1.00
ATOM	419	CA	SER	A	33	75.979	43.251	71.705	1.00	1.00
ATOM	420	HA	SER	A	33	75.137	43.567	71.103	1.00	1.00
ATOM	421	CB	SER	A	33	75.666	41.908	72.376	1.00	1.00
ATOM	422	HB1	SER	A	33	74.918	42.046	73.158	1.00	1.00
ATOM	423	HB2	SER	A	33	76.570	41.514	72.843	1.00	1.00
ATOM	424	OG	SER	A	33	75.165	40.961	71.458	1.00	1.00
ATOM	425	HG	SER	A	33	74.217	40.838	71.660	1.00	1.00
ATOM	426	C	SER	A	33	76.133	44.255	72.842	1.00	1.00
ATOM	427	O	SER	A	33	77.213	44.398	73.414	1.00	1.00
ATOM	428	N	GLY	A	34	75.038	44.947	73.154	1.00	0.96
ATOM	429	H	GLY	A	34	74.178	44.735	72.672	1.00	0.96
ATOM	430	CA	GLY	A	34	75.003	45.950	74.214	1.00	0.96
ATOM	431	HA1	GLY	A	34	75.133	45.448	75.174	1.00	0.96
ATOM	432	HA2	GLY	A	34	74.027	46.430	74.223	1.00	0.96
ATOM	433	C	GLY	A	34	76.075	47.031	74.119	1.00	0.96
ATOM	434	O	GLY	A	34	76.437	47.621	75.133	1.00	0.96
ATOM	435	N	THR	A	35	76.623	47.279	72.920	1.00	0.95
ATOM	436	H	THR	A	35	76.354	46.735	72.112	1.00	0.95

ATOM	437	CA	THR	A	35	77.716	48.235	72.785	1.00	0.95
ATOM	438	HA	THR	A	35	77.910	48.730	73.736	1.00	0.95
ATOM	439	CB	THR	A	35	78.999	47.481	72.400	1.00	0.95
ATOM	440	HB	THR	A	35	78.885	47.048	71.412	1.00	0.95
ATOM	441	CG2	THR	A	35	80.246	48.359	72.378	1.00	0.95
ATOM	442	1HG2	THR	A	35	81.127	47.733	72.248	1.00	0.95
ATOM	443	2HG2	THR	A	35	80.190	49.050	71.541	1.00	0.95
ATOM	444	3HG2	THR	A	35	80.330	48.911	73.315	1.00	0.95
ATOM	445	OG1	THR	A	35	79.283	46.448	73.313	1.00	0.95
ATOM	446	HG1	THR	A	35	78.505	45.868	73.366	1.00	0.95
ATOM	447	C	THR	A	35	77.402	49.310	71.754	1.00	0.95
ATOM	448	O	THR	A	35	76.859	49.047	70.680	1.00	0.95
ATOM	449	N	THR	A	36	77.772	50.541	72.093	1.00	0.67
ATOM	450	H	THR	A	36	78.147	50.698	73.016	1.00	0.67
ATOM	451	CA	THR	A	36	77.796	51.676	71.177	1.00	0.67
ATOM	452	HA	THR	A	36	76.917	51.644	70.534	1.00	0.67
ATOM	453	CB	THR	A	36	77.780	52.990	71.979	1.00	0.67
ATOM	454	HB	THR	A	36	78.663	53.041	72.617	1.00	0.67
ATOM	455	CG2	THR	A	36	77.701	54.249	71.120	1.00	0.67
ATOM	456	1HG2	THR	A	36	77.476	55.102	71.759	1.00	0.67
ATOM	457	2HG2	THR	A	36	78.665	54.435	70.660	1.00	0.67
ATOM	458	3HG2	THR	A	36	76.937	54.149	70.350	1.00	0.67
ATOM	459	OG1	THR	A	36	76.634	53.007	72.796	1.00	0.67
ATOM	460	HG1	THR	A	36	75.867	53.036	72.194	1.00	0.67
ATOM	461	C	THR	A	36	79.048	51.631	70.311	1.00	0.67
ATOM	462	O	THR	A	36	80.157	51.451	70.811	1.00	0.67
ATOM	463	N	LEU	A	37	78.902	51.841	69.005	1.00	0.42
ATOM	464	H	LEU	A	37	77.959	51.897	68.635	1.00	0.42
ATOM	465	CA	LEU	A	37	79.980	52.330	68.154	1.00	0.42
ATOM	466	HA	LEU	A	37	80.892	51.779	68.391	1.00	0.42
ATOM	467	CB	LEU	A	37	79.614	52.058	66.691	1.00	0.42
ATOM	468	HB1	LEU	A	37	78.667	52.549	66.461	1.00	0.42
ATOM	469	HB2	LEU	A	37	79.472	50.992	66.605	1.00	0.42
ATOM	470	CG	LEU	A	37	80.655	52.466	65.639	1.00	0.42
ATOM	471	HG	LEU	A	37	80.740	53.545	65.648	1.00	0.42
ATOM	472	CD1	LEU	A	37	82.036	51.844	65.857	1.00	0.42
ATOM	473	1HD1	LEU	A	37	82.703	52.141	65.048	1.00	0.42
ATOM	474	2HD1	LEU	A	37	82.465	52.210	66.791	1.00	0.42
ATOM	475	3HD1	LEU	A	37	81.957	50.759	65.882	1.00	0.42
ATOM	476	CD2	LEU	A	37	80.164	52.023	64.259	1.00	0.42
ATOM	477	1HD2	LEU	A	37	80.866	52.354	63.497	1.00	0.42
ATOM	478	2HD2	LEU	A	37	80.073	50.937	64.214	1.00	0.42
ATOM	479	3HD2	LEU	A	37	79.193	52.473	64.055	1.00	0.42
ATOM	480	C	LEU	A	37	80.198	53.802	68.486	1.00	0.42

ATOM	481	O	LEU	A	37	79.554	54.714	67.954	1.00	0.42
ATOM	482	N	ASP	A	38	81.049	54.000	69.482	1.00	0.45
ATOM	483	H	ASP	A	38	81.398	53.201	69.997	1.00	0.45
ATOM	484	CA	ASP	A	38	81.495	55.316	69.884	1.00	0.45
ATOM	485	HA	ASP	A	38	80.619	55.966	69.936	1.00	0.45
ATOM	486	CB	ASP	A	38	82.111	55.263	71.289	1.00	0.45
ATOM	487	HB1	ASP	A	38	83.013	55.876	71.319	1.00	0.45
ATOM	488	HB2	ASP	A	38	82.383	54.240	71.560	1.00	0.45
ATOM	489	CG	ASP	A	38	81.099	55.832	72.279	1.00	0.45
ATOM	490	OD1	ASP	A	38	81.024	57.084	72.335	1.00	0.45
ATOM	491	OD2	ASP	A	38	80.341	55.062	72.901	1.00	0.45
ATOM	492	C	ASP	A	38	82.421	55.909	68.817	1.00	0.45
ATOM	493	O	ASP	A	38	83.511	55.401	68.569	1.00	0.45
ATOM	494	N	LEU	A	39	81.931	56.977	68.181	1.00	0.55
ATOM	495	H	LEU	A	39	80.957	57.201	68.361	1.00	0.55
ATOM	496	CA	LEU	A	39	82.678	58.014	67.458	1.00	0.55
ATOM	497	HA	LEU	A	39	83.741	57.895	67.665	1.00	0.55
ATOM	498	CB	LEU	A	39	82.446	57.913	65.931	1.00	0.55
ATOM	499	HB1	LEU	A	39	82.787	58.851	65.504	1.00	0.55
ATOM	500	HB2	LEU	A	39	81.371	57.862	65.753	1.00	0.55
ATOM	501	CG	LEU	A	39	83.140	56.808	65.098	1.00	0.55
ATOM	502	HG	LEU	A	39	83.060	57.112	64.053	1.00	0.55
ATOM	503	CD1	LEU	A	39	84.628	56.576	65.376	1.00	0.55
ATOM	504	1HD1	LEU	A	39	85.018	55.812	64.706	1.00	0.55
ATOM	505	2HD1	LEU	A	39	85.185	57.495	65.213	1.00	0.55
ATOM	506	3HD1	LEU	A	39	84.774	56.249	66.407	1.00	0.55
ATOM	507	CD2	LEU	A	39	82.425	55.469	65.210	1.00	0.55
ATOM	508	1HD2	LEU	A	39	81.385	55.591	64.915	1.00	0.55
ATOM	509	2HD2	LEU	A	39	82.903	54.728	64.574	1.00	0.55
ATOM	510	3HD2	LEU	A	39	82.471	55.112	66.235	1.00	0.55
ATOM	511	C	LEU	A	39	82.266	59.398	68.040	1.00	0.55
ATOM	512	O	LEU	A	39	82.029	60.419	67.379	1.00	0.55
ATOM	513	N	SER	A	40	82.086	59.392	69.352	1.00	0.74
ATOM	514	H	SER	A	40	82.198	58.498	69.806	1.00	0.74
ATOM	515	CA	SER	A	40	82.316	60.548	70.217	1.00	0.74
ATOM	516	HA	SER	A	40	81.535	61.273	70.014	1.00	0.74
ATOM	517	CB	SER	A	40	82.175	60.081	71.678	1.00	0.74
ATOM	518	HB1	SER	A	40	81.118	59.910	71.891	1.00	0.74
ATOM	519	HB2	SER	A	40	82.544	60.851	72.357	1.00	0.74
ATOM	520	OG	SER	A	40	82.874	58.868	71.905	1.00	0.74
ATOM	521	HG	SER	A	40	82.211	58.181	72.164	1.00	0.74
ATOM	522	C	SER	A	40	83.638	61.258	70.025	1.00	0.74
ATOM	523	O	SER	A	40	84.607	60.639	69.603	1.00	0.74
ATOM	524	N	ASP	A	41	83.644	62.533	70.423	1.00	0.84

ATOM	525	H	ASP	A	41	82.788	62.904	70.799	1.00	0.84
ATOM	526	CA	ASP	A	41	84.797	63.396	70.679	1.00	0.84
ATOM	527	HA	ASP	A	41	84.467	64.423	70.516	1.00	0.84
ATOM	528	CB	ASP	A	41	85.173	63.288	72.170	1.00	0.84
ATOM	529	HB1	ASP	A	41	85.985	63.986	72.378	1.00	0.84
ATOM	530	HB2	ASP	A	41	85.533	62.277	72.373	1.00	0.84
ATOM	531	CG	ASP	A	41	84.000	63.598	73.130	1.00	0.84
ATOM	532	OD1	ASP	A	41	84.207	63.525	74.360	1.00	0.84
ATOM	533	OD2	ASP	A	41	82.862	63.881	72.673	1.00	0.84
ATOM	534	C	ASP	A	41	85.911	63.166	69.658	1.00	0.84
ATOM	535	O	ASP	A	41	87.071	62.920	69.995	1.00	0.84
ATOM	536	N	LEU	A	42	85.492	63.161	68.388	1.00	0.79
ATOM	537	H	LEU	A	42	84.517	63.361	68.203	1.00	0.79
ATOM	538	CA	LEU	A	42	86.411	63.108	67.274	1.00	0.79
ATOM	539	HA	LEU	A	42	87.147	62.328	67.471	1.00	0.79
ATOM	540	CB	LEU	A	42	85.704	62.809	65.954	1.00	0.79
ATOM	541	HB1	LEU	A	42	86.492	62.699	65.217	1.00	0.79
ATOM	542	HB2	LEU	A	42	85.084	63.664	65.688	1.00	0.79
ATOM	543	CG	LEU	A	42	84.847	61.550	65.895	1.00	0.79
ATOM	544	HG	LEU	A	42	83.973	61.684	66.525	1.00	0.79
ATOM	545	CD1	LEU	A	42	84.407	61.344	64.445	1.00	0.79
ATOM	546	1HD1	LEU	A	42	83.768	60.470	64.369	1.00	0.79
ATOM	547	2HD1	LEU	A	42	83.844	62.213	64.119	1.00	0.79
ATOM	548	3HD1	LEU	A	42	85.277	61.224	63.800	1.00	0.79
ATOM	549	CD2	LEU	A	42	85.617	60.306	66.329	1.00	0.79
ATOM	550	1HD2	LEU	A	42	84.980	59.433	66.246	1.00	0.79
ATOM	551	2HD2	LEU	A	42	86.506	60.192	65.711	1.00	0.79
ATOM	552	3HD2	LEU	A	42	85.906	60.403	67.375	1.00	0.79
ATOM	553	C	LEU	A	42	87.141	64.439	67.166	1.00	0.79
ATOM	554	O	LEU	A	42	86.554	65.503	67.372	1.00	0.79
ATOM	555	N	GLU	A	43	88.415	64.355	66.797	1.00	1.00
ATOM	556	H	GLU	A	43	88.843	63.448	66.706	1.00	1.00
ATOM	557	CA	GLU	A	43	89.214	65.549	66.557	1.00	1.00
ATOM	558	HA	GLU	A	43	89.199	66.157	67.464	1.00	1.00
ATOM	559	CB	GLU	A	43	90.678	65.166	66.271	1.00	1.00
ATOM	560	HB1	GLU	A	43	91.227	66.050	65.942	1.00	1.00
ATOM	561	HB2	GLU	A	43	90.695	64.448	65.449	1.00	1.00
ATOM	562	CG	GLU	A	43	91.415	64.544	67.475	1.00	1.00
ATOM	563	HG1	GLU	A	43	92.366	64.150	67.110	1.00	1.00
ATOM	564	HG2	GLU	A	43	90.834	63.696	67.842	1.00	1.00
ATOM	565	CD	GLU	A	43	91.707	65.505	68.644	1.00	1.00
ATOM	566	OE1	GLU	A	43	91.487	66.731	68.491	1.00	1.00
ATOM	567	OE2	GLU	A	43	92.176	64.995	69.690	1.00	1.00
ATOM	568	C	GLU	A	43	88.647	66.417	65.429	1.00	1.00

ATOM	569	O	GLU	A	43	88.092	65.918	64.436	1.00	1.00
ATOM	570	N	ASP	A	44	88.790	67.728	65.599	1.00	0.99
ATOM	571	H	ASP	A	44	89.273	68.075	66.413	1.00	0.99
ATOM	572	CA	ASP	A	44	88.166	68.676	64.690	1.00	0.99
ATOM	573	HA	ASP	A	44	87.122	68.389	64.658	1.00	0.99
ATOM	574	CB	ASP	A	44	88.248	70.115	65.245	1.00	0.99
ATOM	575	HB1	ASP	A	44	88.049	70.804	64.423	1.00	0.99
ATOM	576	HB2	ASP	A	44	89.263	70.309	65.597	1.00	0.99
ATOM	577	CG	ASP	A	44	87.244	70.446	66.370	1.00	0.99
ATOM	578	OD1	ASP	A	44	86.466	69.579	66.825	1.00	0.99
ATOM	579	OD2	ASP	A	44	87.190	71.629	66.787	1.00	0.99
ATOM	580	C	ASP	A	44	88.709	68.551	63.256	1.00	0.99
ATOM	581	O	ASP	A	44	89.923	68.406	63.083	1.00	0.99
ATOM	582	N	ASP	A	45	87.807	68.576	62.255	1.00	0.88
ATOM	583	H	ASP	A	45	86.834	68.711	62.501	1.00	0.88
ATOM	584	CA	ASP	A	45	88.105	68.318	60.818	1.00	0.88
ATOM	585	HA	ASP	A	45	87.338	68.834	60.246	1.00	0.88
ATOM	586	CB	ASP	A	45	89.428	68.982	60.341	1.00	0.88
ATOM	587	HB1	ASP	A	45	90.262	68.335	60.617	1.00	0.88
ATOM	588	HB2	ASP	A	45	89.546	69.931	60.866	1.00	0.88
ATOM	589	CG	ASP	A	45	89.550	69.293	58.836	1.00	0.88
ATOM	590	OD1	ASP	A	45	88.537	69.641	58.185	1.00	0.88
ATOM	591	OD2	ASP	A	45	90.706	69.269	58.345	1.00	0.88
ATOM	592	C	ASP	A	45	88.001	66.834	60.413	1.00	0.88
ATOM	593	O	ASP	A	45	88.079	66.497	59.225	1.00	0.88
ATOM	594	N	THR	A	46	87.838	65.903	61.370	1.00	0.57
ATOM	595	H	THR	A	46	87.814	66.187	62.344	1.00	0.57
ATOM	596	CA	THR	A	46	87.839	64.473	61.015	1.00	0.57
ATOM	597	HA	THR	A	46	88.780	64.323	60.489	1.00	0.57
ATOM	598	CB	THR	A	46	87.888	63.517	62.208	1.00	0.57
ATOM	599	HB	THR	A	46	87.667	62.507	61.861	1.00	0.57
ATOM	600	CG2	THR	A	46	89.266	63.500	62.859	1.00	0.57
ATOM	601	1HG2	THR	A	46	89.979	63.109	62.144	1.00	0.57
ATOM	602	2HG2	THR	A	46	89.588	64.504	63.128	1.00	0.57
ATOM	603	3HG2	THR	A	46	89.257	62.861	63.742	1.00	0.57
ATOM	604	OG1	THR	A	46	86.946	63.875	63.170	1.00	0.57
ATOM	605	HG1	THR	A	46	87.336	64.634	63.654	1.00	0.57
ATOM	606	C	THR	A	46	86.734	64.062	60.034	1.00	0.57
ATOM	607	O	THR	A	46	85.521	64.261	60.207	1.00	0.57
ATOM	608	N	THR	A	47	87.178	63.368	58.986	1.00	0.42
ATOM	609	H	THR	A	47	88.183	63.249	58.900	1.00	0.42
ATOM	610	CA	THR	A	47	86.273	62.554	58.171	1.00	0.42
ATOM	611	HA	THR	A	47	85.351	63.102	58.024	1.00	0.42
ATOM	612	CB	THR	A	47	86.904	62.255	56.800	1.00	0.42

ATOM	613	HB	THR	A	47	87.973	62.100	56.927	1.00	0.42
ATOM	614	CG2	THR	A	47	86.325	61.052	56.045	1.00	0.42
ATOM	615	1HG2	THR	A	47	86.722	61.029	55.030	1.00	0.42
ATOM	616	2HG2	THR	A	47	86.614	60.126	56.540	1.00	0.42
ATOM	617	3HG2	THR	A	47	85.239	61.101	56.013	1.00	0.42
ATOM	618	OG1	THR	A	47	86.701	63.363	55.953	1.00	0.42
ATOM	619	HG1	THR	A	47	87.188	64.100	56.356	1.00	0.42
ATOM	620	C	THR	A	47	85.958	61.253	58.901	1.00	0.42
ATOM	621	O	THR	A	47	86.858	60.554	59.354	1.00	0.42
ATOM	622	N	VAL	A	48	84.703	60.821	58.842	1.00	0.38
ATOM	623	H	VAL	A	48	84.017	61.431	58.406	1.00	0.38
ATOM	624	CA	VAL	A	48	84.339	59.403	58.934	1.00	0.38
ATOM	625	HA	VAL	A	48	85.234	58.807	59.089	1.00	0.38
ATOM	626	CB	VAL	A	48	83.370	59.118	60.102	1.00	0.38
ATOM	627	HB	VAL	A	48	82.397	59.554	59.881	1.00	0.38
ATOM	628	CG1	VAL	A	48	83.186	57.614	60.337	1.00	0.38
ATOM	629	1HG1	VAL	A	48	82.515	57.454	61.180	1.00	0.38
ATOM	630	2HG1	VAL	A	48	82.738	57.144	59.463	1.00	0.38
ATOM	631	3HG1	VAL	A	48	84.146	57.144	60.554	1.00	0.38
ATOM	632	CG2	VAL	A	48	83.882	59.699	61.425	1.00	0.38
ATOM	633	1HG2	VAL	A	48	83.219	59.417	62.242	1.00	0.38
ATOM	634	2HG2	VAL	A	48	84.887	59.330	61.635	1.00	0.38
ATOM	635	3HG2	VAL	A	48	83.913	60.788	61.375	1.00	0.38
ATOM	636	C	VAL	A	48	83.717	59.035	57.597	1.00	0.38
ATOM	637	O	VAL	A	48	83.012	59.850	56.981	1.00	0.38
ATOM	638	N	ILE	A	49	84.031	57.815	57.158	1.00	0.53
ATOM	639	H	ILE	A	49	84.683	57.274	57.718	1.00	0.53
ATOM	640	CA	ILE	A	49	83.382	57.160	56.025	1.00	0.53
ATOM	641	HA	ILE	A	49	83.080	57.968	55.358	1.00	0.53
ATOM	642	CB	ILE	A	49	84.362	56.320	55.156	1.00	0.53
ATOM	643	HB	ILE	A	49	84.525	55.348	55.621	1.00	0.53
ATOM	644	CG2	ILE	A	49	83.771	56.111	53.746	1.00	0.53
ATOM	645	1HG2	ILE	A	49	84.341	55.343	53.218	1.00	0.53
ATOM	646	2HG2	ILE	A	49	82.731	55.795	53.769	1.00	0.53
ATOM	647	3HG2	ILE	A	49	83.813	57.042	53.180	1.00	0.53
ATOM	648	CG1	ILE	A	49	85.729	57.049	55.023	1.00	0.53
ATOM	649	1HG1	ILE	A	49	86.281	56.923	55.955	1.00	0.53
ATOM	650	2HG1	ILE	A	49	85.553	58.117	54.884	1.00	0.53
ATOM	651	CD1	ILE	A	49	86.641	56.594	53.874	1.00	0.53
ATOM	652	HD1	ILE	A	49	87.641	57.004	54.024	1.00	0.53
ATOM	653	HD2	ILE	A	49	86.698	55.508	53.842	1.00	0.53
ATOM	654	HD3	ILE	A	49	86.259	56.958	52.921	1.00	0.53
ATOM	655	C	ILE	A	49	82.042	56.560	56.489	1.00	0.53
ATOM	656	O	ILE	A	49	81.258	57.283	57.137	1.00	0.53

ATOM	657	N	PHE	A	50	81.839	55.307	56.061	1.00	0.41
ATOM	658	H	PHE	A	50	82.466	55.066	55.310	1.00	0.41
ATOM	659	CA	PHE	A	50	81.028	54.146	56.487	1.00	0.41
ATOM	660	HA	PHE	A	50	81.577	53.602	57.257	1.00	0.41
ATOM	661	CB	PHE	A	50	79.654	54.542	57.056	1.00	0.41
ATOM	662	HB1	PHE	A	50	78.921	53.803	56.731	1.00	0.41
ATOM	663	HB2	PHE	A	50	79.336	55.501	56.644	1.00	0.41
ATOM	664	CG	PHE	A	50	79.616	54.570	58.573	1.00	0.41
ATOM	665	CD1	PHE	A	50	79.485	55.783	59.279	1.00	0.41
ATOM	666	HD1	PHE	A	50	79.412	56.717	58.741	1.00	0.41
ATOM	667	CE1	PHE	A	50	79.469	55.785	60.686	1.00	0.41
ATOM	668	HE1	PHE	A	50	79.392	56.717	61.228	1.00	0.41
ATOM	669	CZ	PHE	A	50	79.572	54.571	61.389	1.00	0.41
ATOM	670	HZ	PHE	A	50	79.577	54.573	62.469	1.00	0.41
ATOM	671	CE2	PHE	A	50	79.698	53.358	60.688	1.00	0.41
ATOM	672	HE2	PHE	A	50	79.792	52.423	61.222	1.00	0.41
ATOM	673	CD2	PHE	A	50	79.720	53.358	59.284	1.00	0.41
ATOM	674	HD2	PHE	A	50	79.826	52.420	58.752	1.00	0.41
ATOM	675	C	PHE	A	50	80.904	53.220	55.274	1.00	0.41
ATOM	676	O	PHE	A	50	80.413	53.644	54.233	1.00	0.41
ATOM	677	N	GLU	A	51	81.412	52.000	55.376	1.00	0.39
ATOM	678	H	GLU	A	51	81.650	51.623	56.299	1.00	0.39
ATOM	679	CA	GLU	A	51	81.918	51.208	54.250	1.00	0.39
ATOM	680	HA	GLU	A	51	81.446	51.514	53.317	1.00	0.39
ATOM	681	CB	GLU	A	51	83.438	51.445	54.151	1.00	0.39
ATOM	682	HB1	GLU	A	51	83.895	51.307	55.131	1.00	0.39
ATOM	683	HB2	GLU	A	51	83.593	52.485	53.857	1.00	0.39
ATOM	684	CG	GLU	A	51	84.159	50.527	53.153	1.00	0.39
ATOM	685	HG1	GLU	A	51	83.643	50.575	52.192	1.00	0.39
ATOM	686	HG2	GLU	A	51	84.119	49.496	53.513	1.00	0.39
ATOM	687	CD	GLU	A	51	85.618	50.967	52.978	1.00	0.39
ATOM	688	OE1	GLU	A	51	85.792	52.071	52.415	1.00	0.39
ATOM	689	OE2	GLU	A	51	86.530	50.234	53.431	1.00	0.39
ATOM	690	C	GLU	A	51	81.598	49.737	54.527	1.00	0.39
ATOM	691	O	GLU	A	51	81.813	49.240	55.643	1.00	0.39
ATOM	692	N	GLY	A	52	81.056	49.083	53.494	1.00	0.49
ATOM	693	H	GLY	A	52	80.953	49.576	52.621	1.00	0.49
ATOM	694	CA	GLY	A	52	80.463	47.753	53.579	1.00	0.49
ATOM	695	HA1	GLY	A	52	81.196	47.066	54.006	1.00	0.49
ATOM	696	HA2	GLY	A	52	80.204	47.393	52.584	1.00	0.49
ATOM	697	C	GLY	A	52	79.208	47.731	54.445	1.00	0.49
ATOM	698	O	GLY	A	52	78.341	48.598	54.295	1.00	0.49
ATOM	699	N	THR	A	53	79.071	46.748	55.332	1.00	0.41
ATOM	700	H	THR	A	53	79.806	46.058	55.459	1.00	0.41

ATOM	701	CA	THR	A	53	77.946	46.675	56.230	1.00	0.41
ATOM	702	HA	THR	A	53	77.073	47.152	55.793	1.00	0.41
ATOM	703	CB	THR	A	53	77.603	45.217	56.604	1.00	0.41
ATOM	704	HB	THR	A	53	78.303	44.863	57.362	1.00	0.41
ATOM	705	CG2	THR	A	53	76.176	45.066	57.136	1.00	0.41
ATOM	706	1HG2	THR	A	53	75.960	44.007	57.277	1.00	0.41
ATOM	707	2HG2	THR	A	53	76.077	45.566	58.096	1.00	0.41
ATOM	708	3HG2	THR	A	53	75.471	45.490	56.420	1.00	0.41
ATOM	709	OG1	THR	A	53	77.703	44.362	55.492	1.00	0.41
ATOM	710	HG1	THR	A	53	78.670	44.234	55.358	1.00	0.41
ATOM	711	C	THR	A	53	78.414	47.410	57.493	1.00	0.41
ATOM	712	O	THR	A	53	79.592	47.490	57.879	1.00	0.41
ATOM	713	N	THR	A	54	77.455	47.883	58.256	1.00	0.32
ATOM	714	H	THR	A	54	76.501	47.881	57.907	1.00	0.32
ATOM	715	CA	THR	A	54	77.693	47.975	59.687	1.00	0.32
ATOM	716	HA	THR	A	54	78.562	47.380	59.979	1.00	0.32
ATOM	717	CB	THR	A	54	77.994	49.422	60.102	1.00	0.32
ATOM	718	HB	THR	A	54	77.284	50.091	59.615	1.00	0.32
ATOM	719	CG2	THR	A	54	77.956	49.670	61.610	1.00	0.32
ATOM	720	1HG2	THR	A	54	78.293	50.682	61.826	1.00	0.32
ATOM	721	2HG2	THR	A	54	76.938	49.558	61.982	1.00	0.32
ATOM	722	3HG2	THR	A	54	78.599	48.961	62.127	1.00	0.32
ATOM	723	OG1	THR	A	54	79.299	49.734	59.669	1.00	0.32
ATOM	724	HG1	THR	A	54	79.515	49.150	58.923	1.00	0.32
ATOM	725	C	THR	A	54	76.501	47.379	60.360	1.00	0.32
ATOM	726	O	THR	A	54	75.363	47.792	60.080	1.00	0.32
ATOM	727	N	SER	A	55	76.840	46.358	61.151	1.00	0.42
ATOM	728	H	SER	A	55	77.831	46.224	61.347	1.00	0.42
ATOM	729	CA	SER	A	55	75.919	45.507	61.893	1.00	0.42
ATOM	730	HA	SER	A	55	74.915	45.603	61.478	1.00	0.42
ATOM	731	CB	SER	A	55	76.357	44.043	61.714	1.00	0.42
ATOM	732	HB1	SER	A	55	75.605	43.381	62.147	1.00	0.42
ATOM	733	HB2	SER	A	55	77.307	43.880	62.223	1.00	0.42
ATOM	734	OG	SER	A	55	76.502	43.733	60.338	1.00	0.42
ATOM	735	HG	SER	A	55	77.372	44.039	60.050	1.00	0.42
ATOM	736	C	SER	A	55	75.866	45.947	63.363	1.00	0.42
ATOM	737	O	SER	A	55	76.300	47.017	63.791	1.00	0.42
ATOM	738	N	TRP	A	56	75.301	45.082	64.170	1.00	0.80
ATOM	739	H	TRP	A	56	75.010	44.191	63.782	1.00	0.80
ATOM	740	CA	TRP	A	56	74.983	45.208	65.583	1.00	0.80
ATOM	741	HA	TRP	A	56	75.750	45.765	66.123	1.00	0.80
ATOM	742	CB	TRP	A	56	73.627	45.886	65.709	1.00	0.80
ATOM	743	HB1	TRP	A	56	73.670	46.882	65.266	1.00	0.80
ATOM	744	HB2	TRP	A	56	73.379	45.980	66.765	1.00	0.80

ATOM	745	CG	TRP	A	56	72.565	45.091	65.041	1.00	0.80
ATOM	746	CD1	TRP	A	56	72.380	44.961	63.711	1.00	0.80
ATOM	747	HD1	TRP	A	56	72.948	45.473	62.946	1.00	0.80
ATOM	748	NE1	TRP	A	56	71.395	44.035	63.476	1.00	0.80
ATOM	749	HE1	TRP	A	56	71.041	43.823	62.551	1.00	0.80
ATOM	750	CE2	TRP	A	56	70.848	43.570	64.650	1.00	0.80
ATOM	751	CZ2	TRP	A	56	69.787	42.711	64.950	1.00	0.80
ATOM	752	HZ2	TRP	A	56	69.194	42.263	64.176	1.00	0.80
ATOM	753	CH2	TRP	A	56	69.465	42.487	66.290	1.00	0.80
ATOM	754	HH2	TRP	A	56	68.651	41.856	66.569	1.00	0.80
ATOM	755	CZ3	TRP	A	56	70.178	43.120	67.300	1.00	0.80
ATOM	756	HZ3	TRP	A	56	69.783	43.065	68.294	1.00	0.80
ATOM	757	CE3	TRP	A	56	71.299	43.909	67.008	1.00	0.80
ATOM	758	HE3	TRP	A	56	71.854	44.384	67.800	1.00	0.80
ATOM	759	CD2	TRP	A	56	71.616	44.198	65.669	1.00	0.80
ATOM	760	C	TRP	A	56	74.959	43.754	66.065	1.00	0.80
ATOM	761	O	TRP	A	56	74.803	42.848	65.242	1.00	0.80
ATOM	762	N	GLU	A	57	75.021	43.508	67.365	1.00	1.04
ATOM	763	H	GLU	A	57	75.260	44.235	68.022	1.00	1.04
ATOM	764	CA	GLU	A	57	74.541	42.240	67.880	1.00	1.04
ATOM	765	HA	GLU	A	57	73.868	41.854	67.116	1.00	1.04
ATOM	766	CB	GLU	A	57	75.629	41.164	68.072	1.00	1.04
ATOM	767	HB1	GLU	A	57	75.415	40.590	68.970	1.00	1.04
ATOM	768	HB2	GLU	A	57	76.606	41.633	68.198	1.00	1.04
ATOM	769	CG	GLU	A	57	75.676	40.160	66.894	1.00	1.04
ATOM	770	HG1	GLU	A	57	76.373	39.360	67.154	1.00	1.04
ATOM	771	HG2	GLU	A	57	76.080	40.665	66.015	1.00	1.04
ATOM	772	CD	GLU	A	57	74.299	39.547	66.567	1.00	1.04
ATOM	773	OE1	GLU	A	57	73.525	39.242	67.505	1.00	1.04
ATOM	774	OE2	GLU	A	57	73.910	39.437	65.384	1.00	1.04
ATOM	775	C	GLU	A	57	73.542	42.415	69.016	1.00	1.04
ATOM	776	O	GLU	A	57	73.419	43.490	69.612	1.00	1.04
ATOM	777	N	TYR	A	58	72.694	41.400	69.175	1.00	1.03
ATOM	778	H	TYR	A	58	72.854	40.536	68.657	1.00	1.03
ATOM	779	CA	TYR	A	58	71.453	41.571	69.906	1.00	1.03
ATOM	780	HA	TYR	A	58	71.016	42.507	69.609	1.00	1.03
ATOM	781	CB	TYR	A	58	70.472	40.413	69.658	1.00	1.03
ATOM	782	HB1	TYR	A	58	70.956	39.474	69.934	1.00	1.03
ATOM	783	HB2	TYR	A	58	70.246	40.369	68.593	1.00	1.03
ATOM	784	CG	TYR	A	58	69.168	40.545	70.437	1.00	1.03
ATOM	785	CD1	TYR	A	58	68.079	41.231	69.866	1.00	1.03
ATOM	786	HD1	TYR	A	58	68.147	41.640	68.871	1.00	1.03
ATOM	787	CE1	TYR	A	58	66.885	41.390	70.592	1.00	1.03
ATOM	788	HE1	TYR	A	58	66.046	41.911	70.162	1.00	1.03

ATOM	789	CZ	TYR	A	58	66.766	40.882	71.899	1.00	1.03
ATOM	790	OH	TYR	A	58	65.600	41.063	72.569	1.00	1.03
ATOM	791	HH	TYR	A	58	65.617	40.737	73.501	1.00	1.03
ATOM	792	CE2	TYR	A	58	67.859	40.207	72.484	1.00	1.03
ATOM	793	HE2	TYR	A	58	67.760	39.829	73.493	1.00	1.03
ATOM	794	CD2	TYR	A	58	69.052	40.029	71.749	1.00	1.03
ATOM	795	HD2	TYR	A	58	69.889	39.510	72.198	1.00	1.03
ATOM	796	C	TYR	A	58	71.714	41.721	71.397	1.00	1.03
ATOM	797	O	TYR	A	58	72.436	40.929	72.009	1.00	1.03
ATOM	798	N	GLU	A	59	71.056	42.726	71.967	1.00	0.94
ATOM	799	H	GLU	A	59	70.519	43.342	71.375	1.00	0.94
ATOM	800	CA	GLU	A	59	70.792	42.823	73.391	1.00	0.94
ATOM	801	HA	GLU	A	59	70.554	41.829	73.772	1.00	0.94
ATOM	802	CB	GLU	A	59	72.029	43.354	74.141	1.00	0.94
ATOM	803	HB1	GLU	A	59	72.158	44.417	73.930	1.00	0.94
ATOM	804	HB2	GLU	A	59	72.918	42.829	73.795	1.00	0.94
ATOM	805	CG	GLU	A	59	71.905	43.132	75.655	1.00	0.94
ATOM	806	HG1	GLU	A	59	71.761	42.065	75.846	1.00	0.94
ATOM	807	HG2	GLU	A	59	71.029	43.661	76.034	1.00	0.94
ATOM	808	CD	GLU	A	59	73.151	43.632	76.391	1.00	0.94
ATOM	809	OE1	GLU	A	59	74.042	42.798	76.668	1.00	0.94
ATOM	810	OE2	GLU	A	59	73.196	44.852	76.657	1.00	0.94
ATOM	811	C	GLU	A	59	69.611	43.751	73.636	1.00	0.94
ATOM	812	O	GLU	A	59	69.464	44.762	72.950	1.00	0.94
ATOM	813	N	GLU	A	60	68.752	43.433	74.594	1.00	0.89
ATOM	814	H	GLU	A	60	68.924	42.631	75.182	1.00	0.89
ATOM	815	CA	GLU	A	60	67.628	44.298	74.920	1.00	0.89
ATOM	816	HA	GLU	A	60	67.328	44.806	74.006	1.00	0.89
ATOM	817	CB	GLU	A	60	66.376	43.497	75.281	1.00	0.89
ATOM	818	HB1	GLU	A	60	66.048	43.073	74.334	1.00	0.89
ATOM	819	HB2	GLU	A	60	65.595	44.178	75.619	1.00	0.89
ATOM	820	CG	GLU	A	60	66.498	42.341	76.280	1.00	0.89
ATOM	821	HG1	GLU	A	60	66.422	42.721	77.301	1.00	0.89
ATOM	822	HG2	GLU	A	60	67.460	41.836	76.170	1.00	0.89
ATOM	823	CD	GLU	A	60	65.373	41.348	75.972	1.00	0.89
ATOM	824	OE1	GLU	A	60	64.264	41.526	76.522	1.00	0.89
ATOM	825	OE2	GLU	A	60	65.612	40.479	75.095	1.00	0.89
ATOM	826	C	GLU	A	60	68.000	45.421	75.883	1.00	0.89
ATOM	827	O	GLU	A	60	67.883	45.321	77.102	1.00	0.89
ATOM	828	N	TRP	A	61	68.450	46.510	75.265	1.00	1.00
ATOM	829	H	TRP	A	61	68.456	46.495	74.257	1.00	1.00
ATOM	830	CA	TRP	A	61	69.025	47.696	75.895	1.00	1.00
ATOM	831	HA	TRP	A	61	68.646	47.764	76.915	1.00	1.00
ATOM	832	CB	TRP	A	61	70.557	47.562	75.967	1.00	1.00

ATOM	833	HB1	TRP	A	61	70.816	46.536	76.235	1.00	1.00
ATOM	834	HB2	TRP	A	61	70.889	48.186	76.797	1.00	1.00
ATOM	835	CG	TRP	A	61	71.374	47.958	74.765	1.00	1.00
ATOM	836	CD1	TRP	A	61	71.179	47.582	73.481	1.00	1.00
ATOM	837	HD1	TRP	A	61	70.379	46.938	73.147	1.00	1.00
ATOM	838	NE1	TRP	A	61	72.155	48.135	72.672	1.00	1.00
ATOM	839	HE1	TRP	A	61	72.215	47.971	71.679	1.00	1.00
ATOM	840	CE2	TRP	A	61	73.037	48.900	73.400	1.00	1.00
ATOM	841	CZ2	TRP	A	61	74.167	49.656	73.051	1.00	1.00
ATOM	842	HZ2	TRP	A	61	74.491	49.723	72.023	1.00	1.00
ATOM	843	CH2	TRP	A	61	74.867	50.327	74.068	1.00	1.00
ATOM	844	HH2	TRP	A	61	75.745	50.907	73.838	1.00	1.00
ATOM	845	CZ3	TRP	A	61	74.439	50.235	75.402	1.00	1.00
ATOM	846	HZ3	TRP	A	61	75.000	50.730	76.182	1.00	1.00
ATOM	847	CE3	TRP	A	61	73.298	49.483	75.735	1.00	1.00
ATOM	848	HE3	TRP	A	61	72.985	49.405	76.765	1.00	1.00
ATOM	849	CD2	TRP	A	61	72.567	48.797	74.744	1.00	1.00
ATOM	850	C	TRP	A	61	68.582	48.948	75.143	1.00	1.00
ATOM	851	O	TRP	A	61	68.124	48.872	74.006	1.00	1.00
ATOM	852	N	ASP	A	62	68.697	50.115	75.766	1.00	0.87
ATOM	853	H	ASP	A	62	69.133	50.169	76.688	1.00	0.87
ATOM	854	CA	ASP	A	62	68.239	51.394	75.211	1.00	0.87
ATOM	855	HA	ASP	A	62	67.367	51.203	74.584	1.00	0.87
ATOM	856	CB	ASP	A	62	67.770	52.295	76.367	1.00	0.87
ATOM	857	HB1	ASP	A	62	67.002	51.769	76.937	1.00	0.87
ATOM	858	HB2	ASP	A	62	67.310	53.193	75.950	1.00	0.87
ATOM	859	CG	ASP	A	62	68.906	52.692	77.317	1.00	0.87
ATOM	860	OD1	ASP	A	62	69.592	51.760	77.799	1.00	0.87
ATOM	861	OD2	ASP	A	62	69.053	53.909	77.569	1.00	0.87
ATOM	862	C	ASP	A	62	69.250	52.127	74.326	1.00	0.87
ATOM	863	O	ASP	A	62	68.930	53.163	73.732	1.00	0.87
ATOM	864	N	GLY	A	63	70.446	51.548	74.233	1.00	0.96
ATOM	865	H	GLY	A	63	70.567	50.678	74.732	1.00	0.96
ATOM	866	CA	GLY	A	63	71.649	52.207	73.778	1.00	0.96
ATOM	867	HA1	GLY	A	63	72.438	51.475	73.659	1.00	0.96
ATOM	868	HA2	GLY	A	63	71.941	52.867	74.592	1.00	0.96
ATOM	869	C	GLY	A	63	71.555	52.989	72.493	1.00	0.96
ATOM	870	O	GLY	A	63	70.897	52.538	71.558	1.00	0.96
ATOM	871	N	PRO	A	64	72.335	54.074	72.380	1.00	0.93
ATOM	872	CD	PRO	A	64	73.062	54.774	73.438	1.00	0.93
ATOM	873	HD1	PRO	A	64	73.561	54.080	74.116	1.00	0.93
ATOM	874	HD2	PRO	A	64	72.369	55.410	73.990	1.00	0.93
ATOM	875	CG	PRO	A	64	74.121	55.635	72.754	1.00	0.93
ATOM	876	HG1	PRO	A	64	75.081	55.122	72.779	1.00	0.93

ATOM	877	HG2	PRO	A	64	74.211	56.614	73.224	1.00	0.93
ATOM	878	CB	PRO	A	64	73.635	55.740	71.313	1.00	0.93
ATOM	879	HB1	PRO	A	64	74.467	55.824	70.616	1.00	0.93
ATOM	880	HB2	PRO	A	64	72.982	56.602	71.218	1.00	0.93
ATOM	881	CA	PRO	A	64	72.800	54.481	71.081	1.00	0.93
ATOM	882	HA	PRO	A	64	71.994	54.771	70.436	1.00	0.93
ATOM	883	C	PRO	A	64	73.626	53.353	70.468	1.00	0.93
ATOM	884	O	PRO	A	64	74.699	53.014	70.969	1.00	0.93
ATOM	885	N	LEU	A	65	73.140	52.765	69.382	1.00	0.48
ATOM	886	H	LEU	A	65	72.216	53.043	69.071	1.00	0.48
ATOM	887	CA	LEU	A	65	73.927	51.807	68.606	1.00	0.48
ATOM	888	HA	LEU	A	65	74.290	51.054	69.306	1.00	0.48
ATOM	889	CB	LEU	A	65	73.029	51.131	67.548	1.00	0.48
ATOM	890	HB1	LEU	A	65	73.444	51.312	66.556	1.00	0.48
ATOM	891	HB2	LEU	A	65	72.037	51.580	67.581	1.00	0.48
ATOM	892	CG	LEU	A	65	72.870	49.616	67.751	1.00	0.48
ATOM	893	HG	LEU	A	65	72.460	49.432	68.745	1.00	0.48
ATOM	894	CD1	LEU	A	65	71.899	49.050	66.707	1.00	0.48
ATOM	895	1HD1	LEU	A	65	71.766	47.982	66.872	1.00	0.48
ATOM	896	2HD1	LEU	A	65	70.927	49.534	66.813	1.00	0.48
ATOM	897	3HD1	LEU	A	65	72.285	49.213	65.702	1.00	0.48
ATOM	898	CD2	LEU	A	65	74.200	48.873	67.615	1.00	0.48
ATOM	899	1HD2	LEU	A	65	74.060	47.823	67.861	1.00	0.48
ATOM	900	2HD2	LEU	A	65	74.591	48.963	66.602	1.00	0.48
ATOM	901	3HD2	LEU	A	65	74.944	49.262	68.311	1.00	0.48
ATOM	902	C	LEU	A	65	75.169	52.447	67.968	1.00	0.48
ATOM	903	O	LEU	A	65	76.197	51.797	67.792	1.00	0.48
ATOM	904	N	LEU	A	66	75.086	53.748	67.690	1.00	0.47
ATOM	905	H	LEU	A	66	74.171	54.175	67.799	1.00	0.47
ATOM	906	CA	LEU	A	66	76.151	54.632	67.231	1.00	0.47
ATOM	907	HA	LEU	A	66	77.114	54.201	67.508	1.00	0.47
ATOM	908	CB	LEU	A	66	76.075	54.706	65.691	1.00	0.47
ATOM	909	HB1	LEU	A	66	75.030	54.874	65.421	1.00	0.47
ATOM	910	HB2	LEU	A	66	76.349	53.719	65.315	1.00	0.47
ATOM	911	CG	LEU	A	66	76.909	55.764	64.929	1.00	0.47
ATOM	912	HG	LEU	A	66	76.499	56.757	65.118	1.00	0.47
ATOM	913	CD1	LEU	A	66	78.413	55.784	65.208	1.00	0.47
ATOM	914	1HD1	LEU	A	66	78.804	54.770	65.192	1.00	0.47
ATOM	915	2HD1	LEU	A	66	78.931	56.388	64.465	1.00	0.47
ATOM	916	3HD1	LEU	A	66	78.611	56.229	66.177	1.00	0.47
ATOM	917	CD2	LEU	A	66	76.771	55.448	63.437	1.00	0.47
ATOM	918	1HD2	LEU	A	66	77.225	56.237	62.839	1.00	0.47
ATOM	919	2HD2	LEU	A	66	77.253	54.496	63.211	1.00	0.47
ATOM	920	3HD2	LEU	A	66	75.719	55.362	63.181	1.00	0.47

ATOM	921	C	LEU	A	66	76.022	55.987	67.914	1.00	0.47
ATOM	922	O	LEU	A	66	74.908	56.467	68.103	1.00	0.47
ATOM	923	N	GLN	A	67	77.143	56.620	68.258	1.00	0.46
ATOM	924	H	GLN	A	67	78.036	56.158	68.107	1.00	0.46
ATOM	925	CA	GLN	A	67	77.149	57.956	68.871	1.00	0.46
ATOM	926	HA	GLN	A	67	76.180	58.434	68.737	1.00	0.46
ATOM	927	CB	GLN	A	67	77.414	57.788	70.379	1.00	0.46
ATOM	928	HB1	GLN	A	67	78.301	57.167	70.521	1.00	0.46
ATOM	929	HB2	GLN	A	67	76.561	57.271	70.821	1.00	0.46
ATOM	930	CG	GLN	A	67	77.629	59.110	71.129	1.00	0.46
ATOM	931	HG1	GLN	A	67	76.826	59.804	70.882	1.00	0.46
ATOM	932	HG2	GLN	A	67	78.580	59.551	70.830	1.00	0.46
ATOM	933	CD	GLN	A	67	77.645	58.904	72.641	1.00	0.46
ATOM	934	OE1	GLN	A	67	76.743	59.310	73.353	1.00	0.46
ATOM	935	NE2	GLN	A	67	78.645	58.272	73.207	1.00	0.46
ATOM	936	1HE2	GLN	A	67	79.427	57.847	72.694	1.00	0.46
ATOM	937	2HE2	GLN	A	67	78.575	58.108	74.192	1.00	0.46
ATOM	938	C	GLN	A	67	78.180	58.836	68.203	1.00	0.46
ATOM	939	O	GLN	A	67	79.329	58.424	68.187	1.00	0.46
ATOM	940	N	ILE	A	68	77.807	60.010	67.671	1.00	0.53
ATOM	941	H	ILE	A	68	76.828	60.276	67.642	1.00	0.53
ATOM	942	CA	ILE	A	68	78.814	60.886	67.041	1.00	0.53
ATOM	943	HA	ILE	A	68	79.778	60.498	67.328	1.00	0.53
ATOM	944	CB	ILE	A	68	78.762	60.740	65.508	1.00	0.53
ATOM	945	HB	ILE	A	68	78.802	59.668	65.304	1.00	0.53
ATOM	946	CG2	ILE	A	68	77.450	61.260	64.904	1.00	0.53
ATOM	947	1HG2	ILE	A	68	77.480	61.159	63.821	1.00	0.53
ATOM	948	2HG2	ILE	A	68	76.616	60.671	65.283	1.00	0.53
ATOM	949	3HG2	ILE	A	68	77.301	62.306	65.169	1.00	0.53
ATOM	950	CG1	ILE	A	68	79.981	61.395	64.818	1.00	0.53
ATOM	951	1HG1	ILE	A	68	80.768	61.601	65.540	1.00	0.53
ATOM	952	2HG1	ILE	A	68	79.695	62.342	64.363	1.00	0.53
ATOM	953	CD1	ILE	A	68	80.578	60.480	63.747	1.00	0.53
ATOM	954	HD1	ILE	A	68	80.883	59.536	64.191	1.00	0.53
ATOM	955	HD2	ILE	A	68	79.841	60.280	62.971	1.00	0.53
ATOM	956	HD3	ILE	A	68	81.457	60.959	63.318	1.00	0.53
ATOM	957	C	ILE	A	68	78.798	62.328	67.562	1.00	0.53
ATOM	958	O	ILE	A	68	77.727	62.950	67.698	1.00	0.53
ATOM	959	N	LYS	A	69	80.020	62.808	67.876	1.00	0.42
ATOM	960	H	LYS	A	69	80.838	62.233	67.691	1.00	0.42
ATOM	961	CA	LYS	A	69	80.247	64.094	68.570	1.00	0.42
ATOM	962	HA	LYS	A	69	79.434	64.785	68.332	1.00	0.42
ATOM	963	CB	LYS	A	69	80.261	63.903	70.103	1.00	0.42
ATOM	964	HB1	LYS	A	69	80.021	64.873	70.528	1.00	0.42

ATOM	965	HB2	LYS	A	69	81.273	63.658	70.410	1.00	0.42
ATOM	966	CG	LYS	A	69	79.322	62.850	70.731	1.00	0.42
ATOM	967	HG1	LYS	A	69	79.462	61.892	70.236	1.00	0.42
ATOM	968	HG2	LYS	A	69	78.283	63.136	70.589	1.00	0.42
ATOM	969	CD	LYS	A	69	79.585	62.614	72.229	1.00	0.42
ATOM	970	HD1	LYS	A	69	80.618	62.302	72.376	1.00	0.42
ATOM	971	HD2	LYS	A	69	78.944	61.791	72.548	1.00	0.42
ATOM	972	CE	LYS	A	69	79.293	63.806	73.145	1.00	0.42
ATOM	973	HE1	LYS	A	69	79.168	63.435	74.164	1.00	0.42
ATOM	974	HE2	LYS	A	69	78.354	64.281	72.838	1.00	0.42
ATOM	975	NZ	LYS	A	69	80.368	64.822	73.142	1.00	0.42
ATOM	976	HZ1	LYS	A	69	80.126	65.585	73.766	1.00	0.42
ATOM	977	HZ2	LYS	A	69	81.314	64.459	73.266	1.00	0.42
ATOM	978	HZ3	LYS	A	69	80.366	65.350	72.266	1.00	0.42
ATOM	979	C	LYS	A	69	81.570	64.751	68.156	1.00	0.42
ATOM	980	O	LYS	A	69	82.553	64.025	68.004	1.00	0.42
ATOM	981	N	GLY	A	70	81.613	66.079	67.998	1.00	0.67
ATOM	982	H	GLY	A	70	80.789	66.630	68.233	1.00	0.67
ATOM	983	CA	GLY	A	70	82.823	66.817	67.570	1.00	0.67
ATOM	984	HA1	GLY	A	70	83.516	66.147	67.059	1.00	0.67
ATOM	985	HA2	GLY	A	70	83.336	67.191	68.456	1.00	0.67
ATOM	986	C	GLY	A	70	82.551	68.017	66.641	1.00	0.67
ATOM	987	O	GLY	A	70	81.397	68.238	66.251	1.00	0.67
ATOM	988	N	ASN	A	71	83.589	68.769	66.228	1.00	0.68
ATOM	989	H	ASN	A	71	84.540	68.581	66.549	1.00	0.68
ATOM	990	CA	ASN	A	71	83.398	69.919	65.330	1.00	0.68
ATOM	991	HA	ASN	A	71	82.339	70.004	65.128	1.00	0.68
ATOM	992	CB	ASN	A	71	83.807	71.256	65.985	1.00	0.68
ATOM	993	HB1	ASN	A	71	83.248	72.062	65.515	1.00	0.68
ATOM	994	HB2	ASN	A	71	84.855	71.448	65.769	1.00	0.68
ATOM	995	CG	ASN	A	71	83.597	71.343	67.483	1.00	0.68
ATOM	996	OD1	ASN	A	71	82.476	71.369	67.977	1.00	0.68
ATOM	997	ND2	ASN	A	71	84.662	71.423	68.243	1.00	0.68
ATOM	998	1HD2	ASN	A	71	85.583	71.303	67.794	1.00	0.68
ATOM	999	2HD2	ASN	A	71	84.535	71.253	69.218	1.00	0.68
ATOM	1000	C	ASN	A	71	84.101	69.811	63.964	1.00	0.68
ATOM	1001	O	ASN	A	71	85.237	69.343	63.836	1.00	0.68
ATOM	1002	N	GLY	A	72	83.440	70.309	62.913	1.00	0.60
ATOM	1003	H	GLY	A	72	82.509	70.694	63.012	1.00	0.60
ATOM	1004	CA	GLY	A	72	84.007	70.194	61.574	1.00	0.60
ATOM	1005	HA1	GLY	A	72	85.014	70.612	61.577	1.00	0.60
ATOM	1006	HA2	GLY	A	72	83.435	70.752	60.839	1.00	0.60
ATOM	1007	C	GLY	A	72	84.104	68.737	61.143	1.00	0.60
ATOM	1008	O	GLY	A	72	85.149	68.299	60.685	1.00	0.60

ATOM	1009	N	ILE	A	73	83.066	67.941	61.398	1.00	0.47
ATOM	1010	H	ILE	A	73	82.236	68.350	61.809	1.00	0.47
ATOM	1011	CA	ILE	A	73	83.109	66.490	61.216	1.00	0.47
ATOM	1012	HA	ILE	A	73	84.142	66.174	61.067	1.00	0.47
ATOM	1013	CB	ILE	A	73	82.567	65.770	62.473	1.00	0.47
ATOM	1014	HB	ILE	A	73	81.484	65.898	62.495	1.00	0.47
ATOM	1015	CG2	ILE	A	73	82.857	64.266	62.389	1.00	0.47
ATOM	1016	1HG2	ILE	A	73	82.435	63.765	63.260	1.00	0.47
ATOM	1017	2HG2	ILE	A	73	82.422	63.846	61.494	1.00	0.47
ATOM	1018	3HG2	ILE	A	73	83.934	64.088	62.357	1.00	0.47
ATOM	1019	CG1	ILE	A	73	83.110	66.309	63.814	1.00	0.47
ATOM	1020	1HG1	ILE	A	73	82.643	65.754	64.629	1.00	0.47
ATOM	1021	2HG1	ILE	A	73	82.798	67.345	63.921	1.00	0.47
ATOM	1022	CD1	ILE	A	73	84.633	66.231	63.991	1.00	0.47
ATOM	1023	HD1	ILE	A	73	84.924	66.715	64.923	1.00	0.47
ATOM	1024	HD2	ILE	A	73	84.944	65.194	64.042	1.00	0.47
ATOM	1025	HD3	ILE	A	73	85.148	66.720	63.165	1.00	0.47
ATOM	1026	C	ILE	A	73	82.300	66.128	59.983	1.00	0.47
ATOM	1027	O	ILE	A	73	81.179	66.611	59.808	1.00	0.47
ATOM	1028	N	THR	A	74	82.827	65.256	59.124	1.00	0.45
ATOM	1029	H	THR	A	74	83.708	64.799	59.350	1.00	0.45
ATOM	1030	CA	THR	A	74	82.205	65.006	57.817	1.00	0.45
ATOM	1031	HA	THR	A	74	81.178	65.361	57.844	1.00	0.45
ATOM	1032	CB	THR	A	74	82.866	65.818	56.692	1.00	0.45
ATOM	1033	HB	THR	A	74	82.537	66.852	56.771	1.00	0.45
ATOM	1034	CG2	THR	A	74	84.393	65.834	56.713	1.00	0.45
ATOM	1035	1HG2	THR	A	74	84.775	66.296	55.803	1.00	0.45
ATOM	1036	2HG2	THR	A	74	84.743	66.424	57.564	1.00	0.45
ATOM	1037	3HG2	THR	A	74	84.781	64.829	56.812	1.00	0.45
ATOM	1038	OG1	THR	A	74	82.455	65.311	55.436	1.00	0.45
ATOM	1039	HG1	THR	A	74	81.532	65.573	55.273	1.00	0.45
ATOM	1040	C	THR	A	74	82.124	63.503	57.580	1.00	0.45
ATOM	1041	O	THR	A	74	83.124	62.825	57.356	1.00	0.45
ATOM	1042	N	ILE	A	75	80.909	62.977	57.663	1.00	0.40
ATOM	1043	H	ILE	A	75	80.131	63.629	57.667	1.00	0.40
ATOM	1044	CA	ILE	A	75	80.506	61.602	57.875	1.00	0.40
ATOM	1045	HA	ILE	A	75	81.398	61.014	57.830	1.00	0.40
ATOM	1046	CB	ILE	A	75	79.978	61.344	59.304	1.00	0.40
ATOM	1047	HB	ILE	A	75	80.034	60.266	59.467	1.00	0.40
ATOM	1048	CG2	ILE	A	75	80.913	62.022	60.317	1.00	0.40
ATOM	1049	1HG2	ILE	A	75	80.741	61.627	61.310	1.00	0.40
ATOM	1050	2HG2	ILE	A	75	81.958	61.851	60.059	1.00	0.40
ATOM	1051	3HG2	ILE	A	75	80.714	63.093	60.330	1.00	0.40
ATOM	1052	CG1	ILE	A	75	78.522	61.770	59.557	1.00	0.40

ATOM	1053	1HG1	ILE	A	75	77.883	61.238	58.856	1.00	0.40
ATOM	1054	2HG1	ILE	A	75	78.425	62.843	59.394	1.00	0.40
ATOM	1055	CD1	ILE	A	75	78.027	61.432	60.968	1.00	0.40
ATOM	1056	HD1	ILE	A	75	78.261	60.394	61.202	1.00	0.40
ATOM	1057	HD2	ILE	A	75	78.494	62.091	61.701	1.00	0.40
ATOM	1058	HD3	ILE	A	75	76.949	61.567	61.023	1.00	0.40
ATOM	1059	C	ILE	A	75	79.580	61.134	56.743	1.00	0.40
ATOM	1060	O	ILE	A	75	78.573	61.809	56.448	1.00	0.40
ATOM	1061	N	LYS	A	76	80.037	60.049	56.072	1.00	0.45
ATOM	1062	H	LYS	A	76	80.780	59.503	56.498	1.00	0.45
ATOM	1063	CA	LYS	A	76	79.891	59.892	54.607	1.00	0.45
ATOM	1064	HA	LYS	A	76	78.975	60.373	54.267	1.00	0.45
ATOM	1065	CB	LYS	A	76	81.106	60.522	53.885	1.00	0.45
ATOM	1066	HB1	LYS	A	76	81.058	60.229	52.834	1.00	0.45
ATOM	1067	HB2	LYS	A	76	82.026	60.111	54.303	1.00	0.45
ATOM	1068	CG	LYS	A	76	81.174	62.055	53.939	1.00	0.45
ATOM	1069	HG1	LYS	A	76	81.320	62.391	54.964	1.00	0.45
ATOM	1070	HG2	LYS	A	76	80.226	62.444	53.581	1.00	0.45
ATOM	1071	CD	LYS	A	76	82.283	62.638	53.044	1.00	0.45
ATOM	1072	HD1	LYS	A	76	82.127	63.715	52.961	1.00	0.45
ATOM	1073	HD2	LYS	A	76	82.170	62.221	52.042	1.00	0.45
ATOM	1074	CE	LYS	A	76	83.719	62.383	53.527	1.00	0.45
ATOM	1075	HE1	LYS	A	76	84.403	62.708	52.739	1.00	0.45
ATOM	1076	HE2	LYS	A	76	83.866	61.310	53.685	1.00	0.45
ATOM	1077	NZ	LYS	A	76	84.029	63.132	54.765	1.00	0.45
ATOM	1078	HZ1	LYS	A	76	85.025	63.158	54.981	1.00	0.45
ATOM	1079	HZ2	LYS	A	76	83.674	64.087	54.725	1.00	0.45
ATOM	1080	HZ3	LYS	A	76	83.558	62.716	55.567	1.00	0.45
ATOM	1081	C	LYS	A	76	79.837	58.416	54.210	1.00	0.45
ATOM	1082	O	LYS	A	76	80.852	57.720	54.313	1.00	0.45
ATOM	1083	N	GLY	A	77	78.704	57.926	53.717	1.00	0.76
ATOM	1084	H	GLY	A	77	77.886	58.513	53.611	1.00	0.76
ATOM	1085	CA	GLY	A	77	78.713	56.530	53.241	1.00	0.76
ATOM	1086	HA1	GLY	A	77	77.688	56.220	53.041	1.00	0.76
ATOM	1087	HA2	GLY	A	77	79.112	55.882	54.023	1.00	0.76
ATOM	1088	C	GLY	A	77	79.525	56.311	51.956	1.00	0.76
ATOM	1089	O	GLY	A	77	79.808	57.255	51.215	1.00	0.76
ATOM	1090	N	ALA	A	78	79.862	55.050	51.681	1.00	1.29
ATOM	1091	H	ALA	A	78	79.651	54.344	52.376	1.00	1.29
ATOM	1092	CA	ALA	A	78	80.723	54.643	50.578	1.00	1.29
ATOM	1093	HA	ALA	A	78	80.972	55.516	49.974	1.00	1.29
ATOM	1094	CB	ALA	A	78	82.044	54.101	51.135	1.00	1.29
ATOM	1095	HB1	ALA	A	78	82.665	53.728	50.320	1.00	1.29
ATOM	1096	HB2	ALA	A	78	82.578	54.902	51.637	1.00	1.29

ATOM	1097	HB3	ALA	A	78	81.856	53.287	51.834	1.00	1.29
ATOM	1098	C	ALA	A	78	80.044	53.628	49.654	1.00	1.29
ATOM	1099	O	ALA	A	78	79.883	52.462	50.008	1.00	1.29
ATOM	1100	N	ASP	A	79	79.700	54.087	48.452	1.00	1.63
ATOM	1101	H	ASP	A	79	79.858	55.062	48.262	1.00	1.63
ATOM	1102	CA	ASP	A	79	79.104	53.296	47.373	1.00	1.63
ATOM	1103	HA	ASP	A	79	78.665	53.991	46.656	1.00	1.63
ATOM	1104	CB	ASP	A	79	80.236	52.568	46.621	1.00	1.63
ATOM	1105	HB1	ASP	A	79	80.782	51.929	47.318	1.00	1.63
ATOM	1106	HB2	ASP	A	79	80.938	53.310	46.234	1.00	1.63
ATOM	1107	CG	ASP	A	79	79.723	51.721	45.456	1.00	1.63
ATOM	1108	OD1	ASP	A	79	79.340	52.323	44.431	1.00	1.63
ATOM	1109	OD2	ASP	A	79	79.702	50.482	45.640	1.00	1.63
ATOM	1110	C	ASP	A	79	77.928	52.408	47.826	1.00	1.63
ATOM	1111	O	ASP	A	79	76.835	52.919	48.059	1.00	1.63
ATOM	1112	N	GLY	A	80	78.135	51.102	47.990	1.00	1.21
ATOM	1113	H	GLY	A	80	79.024	50.729	47.673	1.00	1.21
ATOM	1114	CA	GLY	A	80	77.097	50.152	48.389	1.00	1.21
ATOM	1115	HA1	GLY	A	80	77.424	49.152	48.108	1.00	1.21
ATOM	1116	HA2	GLY	A	80	76.187	50.375	47.832	1.00	1.21
ATOM	1117	C	GLY	A	80	76.739	50.128	49.872	1.00	1.21
ATOM	1118	O	GLY	A	80	75.883	49.338	50.277	1.00	1.21
ATOM	1119	N	ALA	A	81	77.435	50.919	50.688	1.00	0.92
ATOM	1120	H	ALA	A	81	78.129	51.534	50.277	1.00	0.92
ATOM	1121	CA	ALA	A	81	77.438	50.767	52.133	1.00	0.92
ATOM	1122	HA	ALA	A	81	77.808	49.764	52.331	1.00	0.92
ATOM	1123	CB	ALA	A	81	78.416	51.769	52.747	1.00	0.92
ATOM	1124	HB1	ALA	A	81	78.453	51.632	53.828	1.00	0.92
ATOM	1125	HB2	ALA	A	81	79.413	51.605	52.343	1.00	0.92
ATOM	1126	HB3	ALA	A	81	78.096	52.787	52.522	1.00	0.92
ATOM	1127	C	ALA	A	81	76.056	50.896	52.779	1.00	0.92
ATOM	1128	O	ALA	A	81	75.289	51.816	52.486	1.00	0.92
ATOM	1129	N	LYS	A	82	75.784	50.014	53.747	1.00	0.60
ATOM	1130	H	LYS	A	82	76.484	49.309	53.963	1.00	0.60
ATOM	1131	CA	LYS	A	82	74.588	50.102	54.581	1.00	0.60
ATOM	1132	HA	LYS	A	82	74.332	51.162	54.638	1.00	0.60
ATOM	1133	CB	LYS	A	82	73.372	49.428	53.925	1.00	0.60
ATOM	1134	HB1	LYS	A	82	73.068	50.050	53.082	1.00	0.60
ATOM	1135	HB2	LYS	A	82	72.561	49.430	54.653	1.00	0.60
ATOM	1136	CG	LYS	A	82	73.591	47.994	53.413	1.00	0.60
ATOM	1137	HG1	LYS	A	82	74.073	47.397	54.188	1.00	0.60
ATOM	1138	HG2	LYS	A	82	74.259	48.035	52.552	1.00	0.60
ATOM	1139	CD	LYS	A	82	72.296	47.272	52.987	1.00	0.60
ATOM	1140	HD1	LYS	A	82	71.793	46.882	53.874	1.00	0.60

ATOM	1141	HD2	LYS	A	82	72.582	46.417	52.373	1.00	0.60
ATOM	1142	CE	LYS	A	82	71.314	48.142	52.182	1.00	0.60
ATOM	1143	HE1	LYS	A	82	70.760	47.507	51.486	1.00	0.60
ATOM	1144	HE2	LYS	A	82	71.885	48.872	51.602	1.00	0.60
ATOM	1145	NZ	LYS	A	82	70.349	48.826	53.073	1.00	0.60
ATOM	1146	HZ1	LYS	A	82	69.914	49.640	52.666	1.00	0.60
ATOM	1147	HZ2	LYS	A	82	69.611	48.193	53.401	1.00	0.60
ATOM	1148	HZ3	LYS	A	82	70.763	49.070	53.971	1.00	0.60
ATOM	1149	C	LYS	A	82	74.763	49.646	56.035	1.00	0.60
ATOM	1150	O	LYS	A	82	75.235	48.557	56.356	1.00	0.60
ATOM	1151	N	LEU	A	83	74.349	50.548	56.913	1.00	0.48
ATOM	1152	H	LEU	A	83	73.933	51.370	56.502	1.00	0.48
ATOM	1153	CA	LEU	A	83	74.066	50.413	58.313	1.00	0.48
ATOM	1154	HA	LEU	A	83	74.876	49.874	58.805	1.00	0.48
ATOM	1155	CB	LEU	A	83	73.941	51.825	58.922	1.00	0.48
ATOM	1156	HB1	LEU	A	83	73.448	51.729	59.889	1.00	0.48
ATOM	1157	HB2	LEU	A	83	73.290	52.430	58.291	1.00	0.48
ATOM	1158	CG	LEU	A	83	75.267	52.586	59.148	1.00	0.48
ATOM	1159	HG	LEU	A	83	75.843	52.058	59.909	1.00	0.48
ATOM	1160	CD1	LEU	A	83	76.151	52.766	57.909	1.00	0.48
ATOM	1161	1HD1	LEU	A	83	76.978	53.434	58.146	1.00	0.48
ATOM	1162	2HD1	LEU	A	83	76.576	51.809	57.606	1.00	0.48
ATOM	1163	3HD1	LEU	A	83	75.574	53.191	57.088	1.00	0.48
ATOM	1164	CD2	LEU	A	83	74.971	53.996	59.658	1.00	0.48
ATOM	1165	1HD2	LEU	A	83	75.909	54.507	59.883	1.00	0.48
ATOM	1166	2HD2	LEU	A	83	74.424	54.562	58.904	1.00	0.48
ATOM	1167	3HD2	LEU	A	83	74.385	53.950	60.571	1.00	0.48
ATOM	1168	C	LEU	A	83	72.770	49.627	58.465	1.00	0.48
ATOM	1169	O	LEU	A	83	71.726	50.070	57.999	1.00	0.48
ATOM	1170	N	ASN	A	84	72.827	48.487	59.138	1.00	0.71
ATOM	1171	H	ASN	A	84	73.725	48.233	59.536	1.00	0.71
ATOM	1172	CA	ASN	A	84	71.864	47.400	58.983	1.00	0.71
ATOM	1173	HA	ASN	A	84	71.005	47.730	58.427	1.00	0.71
ATOM	1174	CB	ASN	A	84	72.615	46.368	58.100	1.00	0.71
ATOM	1175	HB1	ASN	A	84	73.584	46.165	58.558	1.00	0.71
ATOM	1176	HB2	ASN	A	84	72.796	46.817	57.123	1.00	0.71
ATOM	1177	CG	ASN	A	84	71.918	45.046	57.863	1.00	0.71
ATOM	1178	OD1	ASN	A	84	70.707	44.913	57.867	1.00	0.71
ATOM	1179	ND2	ASN	A	84	72.677	43.991	57.641	1.00	0.71
ATOM	1180	1HD2	ASN	A	84	73.681	44.059	57.666	1.00	0.71
ATOM	1181	2HD2	ASN	A	84	72.194	43.115	57.553	1.00	0.71
ATOM	1182	C	ASN	A	84	71.415	46.880	60.358	1.00	0.71
ATOM	1183	O	ASN	A	84	71.847	45.799	60.768	1.00	0.71
ATOM	1184	N	PRO	A	85	70.643	47.675	61.137	1.00	0.89

ATOM	1185	CD	PRO	A	85	70.205	49.044	60.897	1.00	0.89
ATOM	1186	HD1	PRO	A	85	69.154	49.043	60.603	1.00	0.89
ATOM	1187	HD2	PRO	A	85	70.810	49.582	60.187	1.00	0.89
ATOM	1188	CG	PRO	A	85	70.301	49.737	62.244	1.00	0.89
ATOM	1189	HG1	PRO	A	85	69.698	50.645	62.286	1.00	0.89
ATOM	1190	HG2	PRO	A	85	71.349	49.933	62.463	1.00	0.89
ATOM	1191	CB	PRO	A	85	69.776	48.645	63.157	1.00	0.89
ATOM	1192	HB1	PRO	A	85	68.693	48.646	63.133	1.00	0.89
ATOM	1193	HB2	PRO	A	85	70.133	48.766	64.179	1.00	0.89
ATOM	1194	CA	PRO	A	85	70.306	47.357	62.515	1.00	0.89
ATOM	1195	HA	PRO	A	85	71.239	47.128	63.023	1.00	0.89
ATOM	1196	C	PRO	A	85	69.368	46.173	62.753	1.00	0.89
ATOM	1197	O	PRO	A	85	68.871	46.078	63.871	1.00	0.89
ATOM	1198	N	ASP	A	86	69.117	45.331	61.733	1.00	1.03
ATOM	1199	H	ASP	A	86	69.666	45.467	60.897	1.00	1.03
ATOM	1200	CA	ASP	A	86	68.154	44.211	61.690	1.00	1.03
ATOM	1201	HA	ASP	A	86	67.585	44.365	60.773	1.00	1.03
ATOM	1202	CB	ASP	A	86	68.848	42.854	61.462	1.00	1.03
ATOM	1203	HB1	ASP	A	86	69.736	42.779	62.078	1.00	1.03
ATOM	1204	HB2	ASP	A	86	69.186	42.808	60.426	1.00	1.03
ATOM	1205	CG	ASP	A	86	67.963	41.628	61.740	1.00	1.03
ATOM	1206	OD1	ASP	A	86	66.775	41.646	61.329	1.00	1.03
ATOM	1207	OD2	ASP	A	86	68.504	40.698	62.390	1.00	1.03
ATOM	1208	C	ASP	A	86	67.064	44.266	62.786	1.00	1.03
ATOM	1209	O	ASP	A	86	66.861	43.375	63.622	1.00	1.03
ATOM	1210	N	GLY	A	87	66.352	45.389	62.805	1.00	1.05
ATOM	1211	H	GLY	A	87	66.638	46.130	62.178	1.00	1.05
ATOM	1212	CA	GLY	A	87	65.495	45.760	63.918	1.00	1.05
ATOM	1213	HA1	GLY	A	87	65.106	46.761	63.733	1.00	1.05
ATOM	1214	HA2	GLY	A	87	66.088	45.781	64.828	1.00	1.05
ATOM	1215	C	GLY	A	87	64.303	44.844	64.129	1.00	1.05
ATOM	1216	O	GLY	A	87	63.719	44.879	65.207	1.00	1.05
ATOM	1217	N	SER	A	88	64.020	43.974	63.156	1.00	0.93
ATOM	1218	H	SER	A	88	64.642	43.973	62.361	1.00	0.93
ATOM	1219	CA	SER	A	88	63.087	42.856	63.291	1.00	0.93
ATOM	1220	HA	SER	A	88	62.076	43.250	63.323	1.00	0.93
ATOM	1221	CB	SER	A	88	63.207	41.922	62.071	1.00	0.93
ATOM	1222	HB1	SER	A	88	63.286	42.511	61.156	1.00	0.93
ATOM	1223	HB2	SER	A	88	62.287	41.339	62.012	1.00	0.93
ATOM	1224	OG	SER	A	88	64.288	40.999	62.146	1.00	0.93
ATOM	1225	HG	SER	A	88	65.149	41.367	61.835	1.00	0.93
ATOM	1226	C	SER	A	88	63.291	42.083	64.581	1.00	0.93
ATOM	1227	O	SER	A	88	62.325	41.830	65.298	1.00	0.93
ATOM	1228	N	ARG	A	89	64.553	41.816	64.938	1.00	0.89

ATOM	1229	H	ARG	A	89	65.294	42.093	64.299	1.00	0.89
ATOM	1230	CA	ARG	A	89	64.903	41.040	66.131	1.00	0.89
ATOM	1231	HA	ARG	A	89	64.333	40.111	66.108	1.00	0.89
ATOM	1232	CB	ARG	A	89	66.402	40.707	66.076	1.00	0.89
ATOM	1233	HB1	ARG	A	89	66.767	40.578	67.096	1.00	0.89
ATOM	1234	HB2	ARG	A	89	66.906	41.552	65.613	1.00	0.89
ATOM	1235	CG	ARG	A	89	66.749	39.437	65.278	1.00	0.89
ATOM	1236	HG1	ARG	A	89	66.652	39.630	64.208	1.00	0.89
ATOM	1237	HG2	ARG	A	89	66.029	38.664	65.548	1.00	0.89
ATOM	1238	CD	ARG	A	89	68.155	38.885	65.601	1.00	0.89
ATOM	1239	HD1	ARG	A	89	68.168	37.828	65.327	1.00	0.89
ATOM	1240	HD2	ARG	A	89	68.324	38.956	66.677	1.00	0.89
ATOM	1241	NE	ARG	A	89	69.252	39.548	64.865	1.00	0.89
ATOM	1242	HE	ARG	A	89	68.998	39.996	63.978	1.00	0.89
ATOM	1243	CZ	ARG	A	89	70.550	39.516	65.157	1.00	0.89
ATOM	1244	NH1	ARG	A	89	71.016	38.953	66.237	1.00	0.89
ATOM	1245	1HH1	ARG	A	89	70.397	38.564	66.911	1.00	0.89
ATOM	1246	2HH1	ARG	A	89	72.026	39.004	66.432	1.00	0.89
ATOM	1247	NH2	ARG	A	89	71.433	40.036	64.361	1.00	0.89
ATOM	1248	1HH2	ARG	A	89	71.128	40.579	63.575	1.00	0.89
ATOM	1249	2HH2	ARG	A	89	72.425	39.943	64.611	1.00	0.89
ATOM	1250	C	ARG	A	89	64.520	41.689	67.466	1.00	0.89
ATOM	1251	O	ARG	A	89	64.527	40.998	68.479	1.00	0.89
ATOM	1252	N	TRP	A	90	64.151	42.972	67.477	1.00	0.76
ATOM	1253	H	TRP	A	90	64.153	43.469	66.595	1.00	0.76
ATOM	1254	CA	TRP	A	90	63.556	43.653	68.632	1.00	0.76
ATOM	1255	HA	TRP	A	90	63.532	42.988	69.497	1.00	0.76
ATOM	1256	CB	TRP	A	90	64.380	44.903	68.995	1.00	0.76
ATOM	1257	HB1	TRP	A	90	63.818	45.475	69.733	1.00	0.76
ATOM	1258	HB2	TRP	A	90	64.440	45.532	68.106	1.00	0.76
ATOM	1259	CG	TRP	A	90	65.761	44.765	69.562	1.00	0.76
ATOM	1260	CD1	TRP	A	90	66.062	44.567	70.867	1.00	0.76
ATOM	1261	HD1	TRP	A	90	65.343	44.392	71.656	1.00	0.76
ATOM	1262	NE1	TRP	A	90	67.424	44.696	71.059	1.00	0.76
ATOM	1263	HE1	TRP	A	90	67.888	44.624	71.965	1.00	0.76
ATOM	1264	CE2	TRP	A	90	68.052	45.100	69.911	1.00	0.76
ATOM	1265	CZ2	TRP	A	90	69.354	45.542	69.649	1.00	0.76
ATOM	1266	HZ2	TRP	A	90	70.085	45.581	70.443	1.00	0.76
ATOM	1267	CH2	TRP	A	90	69.661	45.998	68.360	1.00	0.76
ATOM	1268	HH2	TRP	A	90	70.648	46.377	68.139	1.00	0.76
ATOM	1269	CZ3	TRP	A	90	68.716	45.869	67.328	1.00	0.76
ATOM	1270	HZ3	TRP	A	90	68.990	46.128	66.316	1.00	0.76
ATOM	1271	CE3	TRP	A	90	67.427	45.373	67.598	1.00	0.76
ATOM	1272	HE3	TRP	A	90	66.707	45.273	66.800	1.00	0.76

ATOM	1273	CD2	TRP	A	90	67.036	45.057	68.914	1.00	0.76
ATOM	1274	C	TRP	A	90	62.116	44.123	68.378	1.00	0.76
ATOM	1275	O	TRP	A	90	61.473	44.594	69.312	1.00	0.76
ATOM	1276	N	TRP	A	91	61.604	44.094	67.147	1.00	0.79
ATOM	1277	H	TRP	A	91	62.112	43.643	66.398	1.00	0.79
ATOM	1278	CA	TRP	A	91	60.263	44.585	66.859	1.00	0.79
ATOM	1279	HA	TRP	A	91	60.123	45.554	67.334	1.00	0.79
ATOM	1280	CB	TRP	A	91	60.044	44.745	65.358	1.00	0.79
ATOM	1281	HB1	TRP	A	91	58.979	44.890	65.201	1.00	0.79
ATOM	1282	HB2	TRP	A	91	60.316	43.812	64.862	1.00	0.79
ATOM	1283	CG	TRP	A	91	60.730	45.882	64.672	1.00	0.79
ATOM	1284	CD1	TRP	A	91	61.192	47.022	65.233	1.00	0.79
ATOM	1285	HD1	TRP	A	91	61.154	47.265	66.285	1.00	0.79
ATOM	1286	NE1	TRP	A	91	61.747	47.830	64.259	1.00	0.79
ATOM	1287	HE1	TRP	A	91	62.204	48.715	64.478	1.00	0.79
ATOM	1288	CE2	TRP	A	91	61.712	47.227	63.025	1.00	0.79
ATOM	1289	CZ2	TRP	A	91	62.169	47.607	61.758	1.00	0.79
ATOM	1290	HZ2	TRP	A	91	62.661	48.558	61.617	1.00	0.79
ATOM	1291	CH2	TRP	A	91	61.968	46.726	60.686	1.00	0.79
ATOM	1292	HH2	TRP	A	91	62.273	47.008	59.699	1.00	0.79
ATOM	1293	CZ3	TRP	A	91	61.325	45.492	60.881	1.00	0.79
ATOM	1294	HZ3	TRP	A	91	61.161	44.825	60.047	1.00	0.79
ATOM	1295	CE3	TRP	A	91	60.843	45.142	62.152	1.00	0.79
ATOM	1296	HE3	TRP	A	91	60.312	44.210	62.300	1.00	0.79
ATOM	1297	CD2	TRP	A	91	61.043	45.990	63.256	1.00	0.79
ATOM	1298	C	TRP	A	91	59.222	43.617	67.427	1.00	0.79
ATOM	1299	O	TRP	A	91	59.259	42.407	67.217	1.00	0.79
ATOM	1300	N	ASP	A	92	58.281	44.186	68.166	1.00	1.03
ATOM	1301	H	ASP	A	92	58.358	45.173	68.351	1.00	1.03
ATOM	1302	CA	ASP	A	92	57.302	43.455	68.967	1.00	1.03
ATOM	1303	HA	ASP	A	92	57.198	42.445	68.569	1.00	1.03
ATOM	1304	CB	ASP	A	92	57.818	43.337	70.409	1.00	1.03
ATOM	1305	HB1	ASP	A	92	58.760	42.785	70.395	1.00	1.03
ATOM	1306	HB2	ASP	A	92	57.106	42.754	70.996	1.00	1.03
ATOM	1307	CG	ASP	A	92	58.053	44.679	71.108	1.00	1.03
ATOM	1308	OD1	ASP	A	92	57.761	45.762	70.536	1.00	1.03
ATOM	1309	OD2	ASP	A	92	58.629	44.660	72.217	1.00	1.03
ATOM	1310	C	ASP	A	92	55.896	44.077	68.939	1.00	1.03
ATOM	1311	O	ASP	A	92	54.959	43.546	69.531	1.00	1.03
ATOM	1312	N	GLY	A	93	55.747	45.201	68.237	1.00	1.09
ATOM	1313	H	GLY	A	93	56.539	45.515	67.693	1.00	1.09
ATOM	1314	CA	GLY	A	93	54.540	46.013	68.162	1.00	1.09
ATOM	1315	HA1	GLY	A	93	53.667	45.373	68.293	1.00	1.09
ATOM	1316	HA2	GLY	A	93	54.486	46.472	67.175	1.00	1.09

ATOM	1317	C	GLY	A	93	54.465	47.125	69.209	1.00	1.09
ATOM	1318	O	GLY	A	93	53.653	48.037	69.065	1.00	1.09
ATOM	1319	N	GLU	A	94	55.319	47.093	70.236	1.00	1.04
ATOM	1320	H	GLU	A	94	55.997	46.333	70.283	1.00	1.04
ATOM	1321	CA	GLU	A	94	55.273	48.020	71.369	1.00	1.04
ATOM	1322	HA	GLU	A	94	54.275	48.459	71.416	1.00	1.04
ATOM	1323	CB	GLU	A	94	55.488	47.285	72.705	1.00	1.04
ATOM	1324	HB1	GLU	A	94	55.553	48.038	73.492	1.00	1.04
ATOM	1325	HB2	GLU	A	94	56.430	46.737	72.684	1.00	1.04
ATOM	1326	CG	GLU	A	94	54.333	46.330	73.049	1.00	1.04
ATOM	1327	HG1	GLU	A	94	54.333	45.495	72.344	1.00	1.04
ATOM	1328	HG2	GLU	A	94	53.386	46.864	72.939	1.00	1.04
ATOM	1329	CD	GLU	A	94	54.447	45.808	74.489	1.00	1.04
ATOM	1330	OE1	GLU	A	94	54.766	44.614	74.671	1.00	1.04
ATOM	1331	OE2	GLU	A	94	54.262	46.621	75.425	1.00	1.04
ATOM	1332	C	GLU	A	94	56.234	49.199	71.246	1.00	1.04
ATOM	1333	O	GLU	A	94	55.997	50.265	71.820	1.00	1.04
ATOM	1334	N	GLY	A	95	57.294	49.066	70.450	1.00	0.94
ATOM	1335	H	GLY	A	95	57.436	48.161	70.013	1.00	0.94
ATOM	1336	CA	GLY	A	95	58.229	50.164	70.189	1.00	0.94
ATOM	1337	HA1	GLY	A	95	57.681	51.007	69.767	1.00	0.94
ATOM	1338	HA2	GLY	A	95	58.968	49.844	69.454	1.00	0.94
ATOM	1339	C	GLY	A	95	58.962	50.619	71.455	1.00	0.94
ATOM	1340	O	GLY	A	95	59.509	49.800	72.185	1.00	0.94
ATOM	1341	N	SER	A	96	58.990	51.925	71.729	1.00	0.94
ATOM	1342	H	SER	A	96	58.443	52.553	71.147	1.00	0.94
ATOM	1343	CA	SER	A	96	59.519	52.438	73.005	1.00	0.94
ATOM	1344	HA	SER	A	96	60.386	51.849	73.309	1.00	0.94
ATOM	1345	CB	SER	A	96	59.958	53.904	72.860	1.00	0.94
ATOM	1346	HB1	SER	A	96	60.280	54.281	73.832	1.00	0.94
ATOM	1347	HB2	SER	A	96	59.114	54.505	72.519	1.00	0.94
ATOM	1348	OG	SER	A	96	61.037	54.038	71.951	1.00	0.94
ATOM	1349	HG	SER	A	96	60.740	53.688	71.102	1.00	0.94
ATOM	1350	C	SER	A	96	58.510	52.384	74.157	1.00	0.94
ATOM	1351	O	SER	A	96	58.889	52.692	75.284	1.00	0.94
ATOM	1352	N	ASN	A	97	57.242	52.051	73.897	1.00	1.12
ATOM	1353	H	ASN	A	97	56.984	51.743	72.968	1.00	1.12
ATOM	1354	CA	ASN	A	97	56.176	52.168	74.897	1.00	1.12
ATOM	1355	HA	ASN	A	97	56.344	53.082	75.471	1.00	1.12
ATOM	1356	CB	ASN	A	97	54.803	52.294	74.215	1.00	1.12
ATOM	1357	HB1	ASN	A	97	54.064	52.598	74.956	1.00	1.12
ATOM	1358	HB2	ASN	A	97	54.501	51.325	73.817	1.00	1.12
ATOM	1359	CG	ASN	A	97	54.815	53.317	73.107	1.00	1.12
ATOM	1360	OD1	ASN	A	97	54.755	54.517	73.307	1.00	1.12

ATOM	1361	ND2	ASN	A	97	54.975	52.855	71.897	1.00	1.12
ATOM	1362	1HD2	ASN	A	97	55.133	51.857	71.784	1.00	1.12
ATOM	1363	2HD2	ASN	A	97	55.377	53.505	71.237	1.00	1.12
ATOM	1364	C	ASN	A	97	56.145	51.017	75.910	1.00	1.12
ATOM	1365	O	ASN	A	97	55.500	51.136	76.949	1.00	1.12
ATOM	1366	N	GLY	A	98	56.816	49.913	75.588	1.00	1.27
ATOM	1367	H	GLY	A	98	57.344	49.899	74.730	1.00	1.27
ATOM	1368	CA	GLY	A	98	56.731	48.659	76.315	1.00	1.27
ATOM	1369	HA1	GLY	A	98	55.686	48.360	76.390	1.00	1.27
ATOM	1370	HA2	GLY	A	98	57.116	48.793	77.325	1.00	1.27
ATOM	1371	C	GLY	A	98	57.521	47.541	75.644	1.00	1.27
ATOM	1372	O	GLY	A	98	58.438	47.803	74.857	1.00	1.27
ATOM	1373	N	GLY	A	99	57.149	46.300	75.941	1.00	1.15
ATOM	1374	H	GLY	A	99	56.250	46.173	76.394	1.00	1.15
ATOM	1375	CA	GLY	A	99	57.782	45.112	75.387	1.00	1.15
ATOM	1376	HA1	GLY	A	99	57.608	45.104	74.314	1.00	1.15
ATOM	1377	HA2	GLY	A	99	57.301	44.225	75.797	1.00	1.15
ATOM	1378	C	GLY	A	99	59.279	45.030	75.678	1.00	1.15
ATOM	1379	O	GLY	A	99	59.745	45.368	76.766	1.00	1.15
ATOM	1380	N	VAL	A	100	60.037	44.560	74.694	1.00	1.02
ATOM	1381	H	VAL	A	100	59.574	44.350	73.810	1.00	1.02
ATOM	1382	CA	VAL	A	100	61.501	44.467	74.743	1.00	1.02
ATOM	1383	HA	VAL	A	100	61.793	43.850	75.594	1.00	1.02
ATOM	1384	CB	VAL	A	100	61.977	43.790	73.436	1.00	1.02
ATOM	1385	HB	VAL	A	100	61.733	44.438	72.594	1.00	1.02
ATOM	1386	CG1	VAL	A	100	63.481	43.543	73.419	1.00	1.02
ATOM	1387	1HG1	VAL	A	100	63.761	43.047	72.489	1.00	1.02
ATOM	1388	2HG1	VAL	A	100	64.027	44.479	73.496	1.00	1.02
ATOM	1389	3HG1	VAL	A	100	63.743	42.889	74.249	1.00	1.02
ATOM	1390	CG2	VAL	A	100	61.316	42.422	73.196	1.00	1.02
ATOM	1391	1HG2	VAL	A	100	61.719	41.968	72.290	1.00	1.02
ATOM	1392	2HG2	VAL	A	100	61.510	41.761	74.042	1.00	1.02
ATOM	1393	3HG2	VAL	A	100	60.241	42.533	73.058	1.00	1.02
ATOM	1394	C	VAL	A	100	62.128	45.857	74.893	1.00	1.02
ATOM	1395	O	VAL	A	100	61.639	46.817	74.302	1.00	1.02
ATOM	1396	N	THR	A	101	63.248	46.016	75.599	1.00	0.98
ATOM	1397	H	THR	A	101	63.620	45.234	76.122	1.00	0.98
ATOM	1398	CA	THR	A	101	64.004	47.287	75.598	1.00	0.98
ATOM	1399	HA	THR	A	101	63.310	48.123	75.686	1.00	0.98
ATOM	1400	CB	THR	A	101	65.005	47.338	76.765	1.00	0.98
ATOM	1401	HB	THR	A	101	65.877	46.746	76.513	1.00	0.98
ATOM	1402	CG2	THR	A	101	65.448	48.767	77.076	1.00	0.98
ATOM	1403	1HG2	THR	A	101	66.198	48.750	77.867	1.00	0.98
ATOM	1404	2HG2	THR	A	101	65.887	49.224	76.190	1.00	0.98

ATOM	1405	3HG2	THR	A	101	64.593	49.357	77.405	1.00	0.98
ATOM	1406	OG1	THR	A	101	64.459	46.802	77.943	1.00	0.98
ATOM	1407	HG1	THR	A	101	65.148	46.250	78.329	1.00	0.98
ATOM	1408	C	THR	A	101	64.821	47.406	74.312	1.00	0.98
ATOM	1409	O	THR	A	101	65.635	46.532	74.012	1.00	0.98
ATOM	1410	N	LYS	A	102	64.618	48.475	73.540	1.00	0.78
ATOM	1411	H	LYS	A	102	64.002	49.199	73.876	1.00	0.78
ATOM	1412	CA	LYS	A	102	65.082	48.563	72.145	1.00	0.78
ATOM	1413	HA	LYS	A	102	65.616	47.646	71.899	1.00	0.78
ATOM	1414	CB	LYS	A	102	63.880	48.675	71.183	1.00	0.78
ATOM	1415	HB1	LYS	A	102	64.209	48.402	70.181	1.00	0.78
ATOM	1416	HB2	LYS	A	102	63.525	49.705	71.170	1.00	0.78
ATOM	1417	CG	LYS	A	102	62.702	47.784	71.590	1.00	0.78
ATOM	1418	HG1	LYS	A	102	62.282	48.215	72.494	1.00	0.78
ATOM	1419	HG2	LYS	A	102	63.061	46.771	71.783	1.00	0.78
ATOM	1420	CD	LYS	A	102	61.573	47.732	70.566	1.00	0.78
ATOM	1421	HD1	LYS	A	102	61.972	47.404	69.605	1.00	0.78
ATOM	1422	HD2	LYS	A	102	61.129	48.717	70.446	1.00	0.78
ATOM	1423	CE	LYS	A	102	60.494	46.739	71.001	1.00	0.78
ATOM	1424	HE1	LYS	A	102	60.940	45.747	71.110	1.00	0.78
ATOM	1425	HE2	LYS	A	102	59.760	46.662	70.197	1.00	0.78
ATOM	1426	NZ	LYS	A	102	59.790	47.074	72.263	1.00	0.78
ATOM	1427	HZ1	LYS	A	102	59.044	46.386	72.394	1.00	0.78
ATOM	1428	HZ2	LYS	A	102	60.388	46.988	73.080	1.00	0.78
ATOM	1429	HZ3	LYS	A	102	59.381	47.998	72.260	1.00	0.78
ATOM	1430	C	LYS	A	102	66.023	49.756	71.978	1.00	0.78
ATOM	1431	O	LYS	A	102	65.639	50.858	72.390	1.00	0.78
ATOM	1432	N	PRO	A	103	67.208	49.573	71.371	1.00	0.78
ATOM	1433	CD	PRO	A	103	67.782	48.326	70.892	1.00	0.78
ATOM	1434	HD1	PRO	A	103	67.140	47.862	70.142	1.00	0.78
ATOM	1435	HD2	PRO	A	103	67.930	47.644	71.731	1.00	0.78
ATOM	1436	CG	PRO	A	103	69.136	48.683	70.279	1.00	0.78
ATOM	1437	HG1	PRO	A	103	69.049	48.765	69.200	1.00	0.78
ATOM	1438	HG2	PRO	A	103	69.902	47.957	70.544	1.00	0.78
ATOM	1439	CB	PRO	A	103	69.493	50.042	70.847	1.00	0.78
ATOM	1440	HB1	PRO	A	103	70.000	50.650	70.097	1.00	0.78
ATOM	1441	HB2	PRO	A	103	70.129	49.910	71.724	1.00	0.78
ATOM	1442	CA	PRO	A	103	68.165	50.654	71.288	1.00	0.78
ATOM	1443	HA	PRO	A	103	68.299	51.067	72.281	1.00	0.78
ATOM	1444	C	PRO	A	103	67.681	51.776	70.378	1.00	0.78
ATOM	1445	O	PRO	A	103	66.968	51.532	69.402	1.00	0.78
ATOM	1446	N	LYS	A	104	68.075	53.006	70.707	1.00	0.55
ATOM	1447	H	LYS	A	104	68.694	53.082	71.511	1.00	0.55
ATOM	1448	CA	LYS	A	104	67.925	54.185	69.847	1.00	0.55

ATOM	1449	HA	LYS	A	104	67.042	54.056	69.216	1.00	0.55
ATOM	1450	CB	LYS	A	104	67.753	55.442	70.715	1.00	0.55
ATOM	1451	HB1	LYS	A	104	67.661	56.313	70.064	1.00	0.55
ATOM	1452	HB2	LYS	A	104	68.626	55.567	71.359	1.00	0.55
ATOM	1453	CG	LYS	A	104	66.486	55.308	71.578	1.00	0.55
ATOM	1454	HG1	LYS	A	104	66.617	54.488	72.285	1.00	0.55
ATOM	1455	HG2	LYS	A	104	65.646	55.069	70.924	1.00	0.55
ATOM	1456	CD	LYS	A	104	66.155	56.576	72.375	1.00	0.55
ATOM	1457	HD1	LYS	A	104	65.902	57.390	71.692	1.00	0.55
ATOM	1458	HD2	LYS	A	104	67.034	56.868	72.954	1.00	0.55
ATOM	1459	CE	LYS	A	104	64.992	56.321	73.346	1.00	0.55
ATOM	1460	HE1	LYS	A	104	64.815	57.231	73.927	1.00	0.55
ATOM	1461	HE2	LYS	A	104	65.293	55.532	74.044	1.00	0.55
ATOM	1462	NZ	LYS	A	104	63.749	55.922	72.636	1.00	0.55
ATOM	1463	HZ1	LYS	A	104	62.997	55.691	73.269	1.00	0.55
ATOM	1464	HZ2	LYS	A	104	63.415	56.673	72.029	1.00	0.55
ATOM	1465	HZ3	LYS	A	104	63.911	55.121	72.045	1.00	0.55
ATOM	1466	C	LYS	A	104	69.139	54.257	68.912	1.00	0.55
ATOM	1467	O	LYS	A	104	70.263	54.067	69.342	1.00	0.55
ATOM	1468	N	PHE	A	105	68.959	54.419	67.606	1.00	0.43
ATOM	1469	H	PHE	A	105	68.025	54.593	67.249	1.00	0.43
ATOM	1470	CA	PHE	A	105	70.024	54.043	66.679	1.00	0.43
ATOM	1471	HA	PHE	A	105	70.422	53.100	67.052	1.00	0.43
ATOM	1472	CB	PHE	A	105	69.463	53.716	65.288	1.00	0.43
ATOM	1473	HB1	PHE	A	105	68.977	54.599	64.893	1.00	0.43
ATOM	1474	HB2	PHE	A	105	68.717	52.924	65.376	1.00	0.43
ATOM	1475	CG	PHE	A	105	70.548	53.270	64.324	1.00	0.43
ATOM	1476	CD1	PHE	A	105	71.331	52.139	64.622	1.00	0.43
ATOM	1477	HD1	PHE	A	105	71.095	51.529	65.479	1.00	0.43
ATOM	1478	CE1	PHE	A	105	72.459	51.833	63.842	1.00	0.43
ATOM	1479	HE1	PHE	A	105	73.083	50.988	64.097	1.00	0.43
ATOM	1480	CZ	PHE	A	105	72.779	52.626	62.730	1.00	0.43
ATOM	1481	HZ	PHE	A	105	73.652	52.389	62.141	1.00	0.43
ATOM	1482	CE2	PHE	A	105	71.971	53.726	62.398	1.00	0.43
ATOM	1483	HE2	PHE	A	105	72.219	54.343	61.548	1.00	0.43
ATOM	1484	CD2	PHE	A	105	70.862	54.052	63.199	1.00	0.43
ATOM	1485	HD2	PHE	A	105	70.274	54.931	62.979	1.00	0.43
ATOM	1486	C	PHE	A	105	71.228	54.969	66.606	1.00	0.43
ATOM	1487	O	PHE	A	105	72.343	54.506	66.840	1.00	0.43
ATOM	1488	N	PHE	A	106	71.019	56.246	66.299	1.00	0.47
ATOM	1489	H	PHE	A	106	70.080	56.550	66.070	1.00	0.47
ATOM	1490	CA	PHE	A	106	72.148	57.150	65.958	1.00	0.47
ATOM	1491	HA	PHE	A	106	73.108	56.667	66.148	1.00	0.47
ATOM	1492	CB	PHE	A	106	72.042	57.471	64.454	1.00	0.47

ATOM	1493	HB1	PHE	A	106	71.253	58.201	64.299	1.00	0.47
ATOM	1494	HB2	PHE	A	106	71.726	56.564	63.941	1.00	0.47
ATOM	1495	CG	PHE	A	106	73.261	57.992	63.725	1.00	0.47
ATOM	1496	CD1	PHE	A	106	73.729	59.303	63.940	1.00	0.47
ATOM	1497	HD1	PHE	A	106	73.269	59.932	64.690	1.00	0.47
ATOM	1498	CE1	PHE	A	106	74.778	59.811	63.152	1.00	0.47
ATOM	1499	HE1	PHE	A	106	75.125	60.821	63.310	1.00	0.47
ATOM	1500	CZ	PHE	A	106	75.355	59.014	62.147	1.00	0.47
ATOM	1501	HZ	PHE	A	106	76.151	59.404	61.534	1.00	0.47
ATOM	1502	CE2	PHE	A	106	74.887	57.709	61.928	1.00	0.47
ATOM	1503	HE2	PHE	A	106	75.331	57.094	61.157	1.00	0.47
ATOM	1504	CD2	PHE	A	106	73.838	57.204	62.713	1.00	0.47
ATOM	1505	HD2	PHE	A	106	73.471	56.206	62.528	1.00	0.47
ATOM	1506	C	PHE	A	106	72.031	58.383	66.836	1.00	0.47
ATOM	1507	O	PHE	A	106	71.085	59.148	66.666	1.00	0.47
ATOM	1508	N	TYR	A	107	72.935	58.601	67.794	1.00	0.49
ATOM	1509	H	TYR	A	107	73.715	57.960	67.927	1.00	0.49
ATOM	1510	CA	TYR	A	107	72.959	59.906	68.447	1.00	0.49
ATOM	1511	HA	TYR	A	107	71.961	60.336	68.544	1.00	0.49
ATOM	1512	CB	TYR	A	107	73.566	59.769	69.849	1.00	0.49
ATOM	1513	HB1	TYR	A	107	73.911	60.753	70.162	1.00	0.49
ATOM	1514	HB2	TYR	A	107	74.443	59.126	69.802	1.00	0.49
ATOM	1515	CG	TYR	A	107	72.638	59.228	70.932	1.00	0.49
ATOM	1516	CD1	TYR	A	107	71.328	58.770	70.650	1.00	0.49
ATOM	1517	HD1	TYR	A	107	70.943	58.760	69.641	1.00	0.49
ATOM	1518	CE1	TYR	A	107	70.502	58.302	71.686	1.00	0.49
ATOM	1519	HE1	TYR	A	107	69.506	57.944	71.476	1.00	0.49
ATOM	1520	CZ	TYR	A	107	70.970	58.292	73.013	1.00	0.49
ATOM	1521	OH	TYR	A	107	70.156	57.845	74.001	1.00	0.49
ATOM	1522	HH	TYR	A	107	70.593	57.814	74.854	1.00	0.49
ATOM	1523	CE2	TYR	A	107	72.267	58.762	73.306	1.00	0.49
ATOM	1524	HE2	TYR	A	107	72.627	58.784	74.323	1.00	0.49
ATOM	1525	CD2	TYR	A	107	73.101	59.213	72.265	1.00	0.49
ATOM	1526	HD2	TYR	A	107	74.093	59.587	72.496	1.00	0.49
ATOM	1527	C	TYR	A	107	73.758	60.800	67.517	1.00	0.49
ATOM	1528	O	TYR	A	107	74.779	60.365	67.001	1.00	0.49
ATOM	1529	N	ALA	A	108	73.291	62.011	67.259	1.00	0.46
ATOM	1530	H	ALA	A	108	72.355	62.262	67.556	1.00	0.46
ATOM	1531	CA	ALA	A	108	74.116	63.059	66.683	1.00	0.46
ATOM	1532	HA	ALA	A	108	75.158	62.741	66.609	1.00	0.46
ATOM	1533	CB	ALA	A	108	73.599	63.395	65.277	1.00	0.46
ATOM	1534	HB1	ALA	A	108	74.160	64.236	64.873	1.00	0.46
ATOM	1535	HB2	ALA	A	108	73.718	62.531	64.624	1.00	0.46
ATOM	1536	HB3	ALA	A	108	72.542	63.664	65.322	1.00	0.46

ATOM	1537	C	ALA	A	108	74.033	64.216	67.683	1.00	0.46
ATOM	1538	O	ALA	A	108	73.018	64.927	67.744	1.00	0.46
ATOM	1539	N	HIS	A	109	75.037	64.287	68.567	1.00	0.48
ATOM	1540	H	HIS	A	109	75.883	63.740	68.435	1.00	0.48
ATOM	1541	CA	HIS	A	109	74.874	65.005	69.842	1.00	0.48
ATOM	1542	HA	HIS	A	109	74.021	65.658	69.798	1.00	0.48
ATOM	1543	CB	HIS	A	109	74.654	64.016	71.013	1.00	0.48
ATOM	1544	HB1	HIS	A	109	74.803	64.569	71.942	1.00	0.48
ATOM	1545	HB2	HIS	A	109	75.431	63.251	70.976	1.00	0.48
ATOM	1546	CG	HIS	A	109	73.314	63.315	71.159	1.00	0.48
ATOM	1547	ND1	HIS	A	109	73.036	62.364	72.144	1.00	0.48
ATOM	1548	CE1	HIS	A	109	71.734	62.059	72.026	1.00	0.48
ATOM	1549	HE1	HIS	A	109	71.207	61.358	72.659	1.00	0.48
ATOM	1550	NE2	HIS	A	109	71.181	62.738	71.010	1.00	0.48
ATOM	1551	HE2	HIS	A	109	70.191	62.740	70.770	1.00	0.48
ATOM	1552	CD2	HIS	A	109	72.160	63.543	70.466	1.00	0.48
ATOM	1553	HD2	HIS	A	109	72.015	64.288	69.710	1.00	0.48
ATOM	1554	C	HIS	A	109	76.111	65.848	70.143	1.00	0.48
ATOM	1555	O	HIS	A	109	77.199	65.284	70.134	1.00	0.48
ATOM	1556	N	ASP	A	110	75.988	67.169	70.353	1.00	0.91
ATOM	1557	H	ASP	A	110	75.074	67.605	70.409	1.00	0.91
ATOM	1558	CA	ASP	A	110	77.183	68.041	70.263	1.00	0.91
ATOM	1559	HA	ASP	A	110	76.813	69.012	69.979	1.00	0.91
ATOM	1560	CB	ASP	A	110	77.885	68.343	71.604	1.00	0.91
ATOM	1561	HB1	ASP	A	110	77.118	68.621	72.330	1.00	0.91
ATOM	1562	HB2	ASP	A	110	78.507	69.228	71.457	1.00	0.91
ATOM	1563	CG	ASP	A	110	78.769	67.253	72.211	1.00	0.91
ATOM	1564	OD1	ASP	A	110	78.373	66.682	73.256	1.00	0.91
ATOM	1565	OD2	ASP	A	110	79.914	67.031	71.756	1.00	0.91
ATOM	1566	C	ASP	A	110	78.075	67.774	69.025	1.00	0.91
ATOM	1567	O	ASP	A	110	79.305	67.751	69.043	1.00	0.91
ATOM	1568	N	LEU	A	111	77.419	67.630	67.870	1.00	1.12
ATOM	1569	H	LEU	A	111	76.411	67.623	67.904	1.00	1.12
ATOM	1570	CA	LEU	A	111	78.039	68.047	66.618	1.00	1.12
ATOM	1571	HA	LEU	A	111	79.098	67.804	66.652	1.00	1.12
ATOM	1572	CB	LEU	A	111	77.417	67.305	65.419	1.00	1.12
ATOM	1573	HB1	LEU	A	111	77.692	67.848	64.518	1.00	1.12
ATOM	1574	HB2	LEU	A	111	76.333	67.349	65.509	1.00	1.12
ATOM	1575	CG	LEU	A	111	77.844	65.838	65.223	1.00	1.12
ATOM	1576	HG	LEU	A	111	77.530	65.248	66.084	1.00	1.12
ATOM	1577	CD1	LEU	A	111	77.153	65.288	63.969	1.00	1.12
ATOM	1578	1HD1	LEU	A	111	77.414	64.239	63.840	1.00	1.12
ATOM	1579	2HD1	LEU	A	111	76.073	65.377	64.080	1.00	1.12
ATOM	1580	3HD1	LEU	A	111	77.477	65.839	63.086	1.00	1.12

ATOM	1581	CD2	LEU	A	111	79.354	65.673	65.016	1.00	1.12
ATOM	1582	1HD2	LEU	A	111	79.878	65.938	65.930	1.00	1.12
ATOM	1583	2HD2	LEU	A	111	79.595	64.639	64.781	1.00	1.12
ATOM	1584	3HD2	LEU	A	111	79.704	66.324	64.216	1.00	1.12
ATOM	1585	C	LEU	A	111	77.934	69.555	66.394	1.00	1.12
ATOM	1586	O	LEU	A	111	76.846	70.133	66.472	1.00	1.12
ATOM	1587	N	THR	A	112	79.036	70.149	65.951	1.00	1.07
ATOM	1588	H	THR	A	112	79.895	69.609	65.908	1.00	1.07
ATOM	1589	CA	THR	A	112	79.063	71.553	65.512	1.00	1.07
ATOM	1590	HA	THR	A	112	78.051	71.938	65.456	1.00	1.07
ATOM	1591	CB	THR	A	112	79.867	72.438	66.483	1.00	1.07
ATOM	1592	HB	THR	A	112	80.922	72.377	66.222	1.00	1.07
ATOM	1593	CG2	THR	A	112	79.438	73.902	66.417	1.00	1.07
ATOM	1594	1HG2	THR	A	112	80.045	74.491	67.105	1.00	1.07
ATOM	1595	2HG2	THR	A	112	79.574	74.292	65.409	1.00	1.07
ATOM	1596	3HG2	THR	A	112	78.390	73.988	66.700	1.00	1.07
ATOM	1597	OG1	THR	A	112	79.732	72.052	67.831	1.00	1.07
ATOM	1598	HG1	THR	A	112	80.574	71.630	68.072	1.00	1.07
ATOM	1599	C	THR	A	112	79.712	71.646	64.142	1.00	1.07
ATOM	1600	O	THR	A	112	80.636	70.882	63.858	1.00	1.07
ATOM	1601	N	ASP	A	113	79.235	72.554	63.291	1.00	0.96
ATOM	1602	H	ASP	A	113	78.442	73.112	63.595	1.00	0.96
ATOM	1603	CA	ASP	A	113	79.653	72.705	61.884	1.00	0.96
ATOM	1604	HA	ASP	A	113	78.787	73.086	61.346	1.00	0.96
ATOM	1605	CB	ASP	A	113	80.738	73.780	61.730	1.00	0.96
ATOM	1606	HB1	ASP	A	113	81.678	73.425	62.158	1.00	0.96
ATOM	1607	HB2	ASP	A	113	80.431	74.679	62.268	1.00	0.96
ATOM	1608	CG	ASP	A	113	80.915	74.132	60.248	1.00	0.96
ATOM	1609	OD1	ASP	A	113	79.870	74.339	59.585	1.00	0.96
ATOM	1610	OD2	ASP	A	113	82.075	74.213	59.792	1.00	0.96
ATOM	1611	C	ASP	A	113	80.023	71.383	61.209	1.00	0.96
ATOM	1612	O	ASP	A	113	81.183	71.044	61.014	1.00	0.96
ATOM	1613	N	SER	A	114	79.020	70.533	61.043	1.00	0.76
ATOM	1614	H	SER	A	114	78.079	70.886	61.197	1.00	0.76
ATOM	1615	CA	SER	A	114	79.230	69.127	60.690	1.00	0.76
ATOM	1616	HA	SER	A	114	80.217	68.998	60.244	1.00	0.76
ATOM	1617	CB	SER	A	114	79.168	68.269	61.953	1.00	0.76
ATOM	1618	HB1	SER	A	114	79.088	67.217	61.677	1.00	0.76
ATOM	1619	HB2	SER	A	114	78.295	68.552	62.539	1.00	0.76
ATOM	1620	OG	SER	A	114	80.343	68.439	62.721	1.00	0.76
ATOM	1621	HG	SER	A	114	80.438	69.382	62.970	1.00	0.76
ATOM	1622	C	SER	A	114	78.206	68.689	59.647	1.00	0.76
ATOM	1623	O	SER	A	114	77.137	69.282	59.463	1.00	0.76
ATOM	1624	N	THR	A	115	78.557	67.633	58.927	1.00	0.45

ATOM	1625	H	THR	A	115	79.450	67.192	59.137	1.00	0.45
ATOM	1626	CA	THR	A	115	77.835	67.191	57.742	1.00	0.45
ATOM	1627	HA	THR	A	115	76.799	67.510	57.834	1.00	0.45
ATOM	1628	CB	THR	A	115	78.394	67.895	56.489	1.00	0.45
ATOM	1629	HB	THR	A	115	78.375	68.968	56.685	1.00	0.45
ATOM	1630	CG2	THR	A	115	79.826	67.546	56.093	1.00	0.45
ATOM	1631	1HG2	THR	A	115	80.136	68.196	55.275	1.00	0.45
ATOM	1632	2HG2	THR	A	115	80.485	67.713	56.944	1.00	0.45
ATOM	1633	3HG2	THR	A	115	79.884	66.513	55.762	1.00	0.45
ATOM	1634	OG1	THR	A	115	77.565	67.665	55.381	1.00	0.45
ATOM	1635	HG1	THR	A	115	76.781	68.213	55.540	1.00	0.45
ATOM	1636	C	THR	A	115	77.816	65.665	57.655	1.00	0.45
ATOM	1637	O	THR	A	115	78.831	65.012	57.437	1.00	0.45
ATOM	1638	N	ILE	A	116	76.642	65.105	57.927	1.00	0.49
ATOM	1639	H	ILE	A	116	75.884	65.760	58.067	1.00	0.49
ATOM	1640	CA	ILE	A	116	76.178	63.761	57.628	1.00	0.49
ATOM	1641	HA	ILE	A	116	77.000	63.062	57.708	1.00	0.49
ATOM	1642	CB	ILE	A	116	75.028	63.356	58.594	1.00	0.49
ATOM	1643	HB	ILE	A	116	74.117	63.829	58.243	1.00	0.49
ATOM	1644	CG2	ILE	A	116	74.775	61.840	58.541	1.00	0.49
ATOM	1645	1HG2	ILE	A	116	74.590	61.518	57.518	1.00	0.49
ATOM	1646	2HG2	ILE	A	116	75.625	61.299	58.948	1.00	0.49
ATOM	1647	3HG2	ILE	A	116	73.882	61.591	59.112	1.00	0.49
ATOM	1648	CG1	ILE	A	116	75.258	63.864	60.042	1.00	0.49
ATOM	1649	1HG1	ILE	A	116	75.176	64.951	60.038	1.00	0.49
ATOM	1650	2HG1	ILE	A	116	76.269	63.615	60.360	1.00	0.49
ATOM	1651	CD1	ILE	A	116	74.273	63.357	61.103	1.00	0.49
ATOM	1652	HD1	ILE	A	116	74.456	63.878	62.043	1.00	0.49
ATOM	1653	HD2	ILE	A	116	73.249	63.551	60.784	1.00	0.49
ATOM	1654	HD3	ILE	A	116	74.409	62.288	61.269	1.00	0.49
ATOM	1655	C	ILE	A	116	75.665	63.806	56.182	1.00	0.49
ATOM	1656	O	ILE	A	116	75.243	64.867	55.705	1.00	0.49
ATOM	1657	N	GLN	A	117	75.811	62.683	55.481	1.00	0.54
ATOM	1658	H	GLN	A	117	76.160	61.883	55.983	1.00	0.54
ATOM	1659	CA	GLN	A	117	75.902	62.603	54.019	1.00	0.54
ATOM	1660	HA	GLN	A	117	75.132	63.228	53.583	1.00	0.54
ATOM	1661	CB	GLN	A	117	77.273	63.134	53.525	1.00	0.54
ATOM	1662	HB1	GLN	A	117	77.272	63.087	52.435	1.00	0.54
ATOM	1663	HB2	GLN	A	117	78.053	62.468	53.884	1.00	0.54
ATOM	1664	CG	GLN	A	117	77.645	64.569	53.942	1.00	0.54
ATOM	1665	HG1	GLN	A	117	77.909	64.584	54.997	1.00	0.54
ATOM	1666	HG2	GLN	A	117	76.786	65.219	53.781	1.00	0.54
ATOM	1667	CD	GLN	A	117	78.814	65.152	53.165	1.00	0.54
ATOM	1668	OE1	GLN	A	117	79.979	65.070	53.535	1.00	0.54

ATOM	1669	NE2	GLN	A	117	78.534	65.781	52.044	1.00	0.54
ATOM	1670	1HE2	GLN	A	117	77.577	65.869	51.751	1.00	0.54
ATOM	1671	2HE2	GLN	A	117	79.303	66.185	51.548	1.00	0.54
ATOM	1672	C	GLN	A	117	75.776	61.140	53.497	1.00	0.54
ATOM	1673	O	GLN	A	117	76.572	60.240	53.832	1.00	0.54
ATOM	1674	N	ASN	A	118	74.817	60.937	52.587	1.00	0.93
ATOM	1675	H	ASN	A	118	74.159	61.694	52.426	1.00	0.93
ATOM	1676	CA	ASN	A	118	74.589	59.674	51.870	1.00	0.93
ATOM	1677	HA	ASN	A	118	73.621	59.743	51.386	1.00	0.93
ATOM	1678	CB	ASN	A	118	75.619	59.505	50.722	1.00	0.93
ATOM	1679	HB1	ASN	A	118	75.582	58.488	50.336	1.00	0.93
ATOM	1680	HB2	ASN	A	118	76.626	59.677	51.099	1.00	0.93
ATOM	1681	CG	ASN	A	118	75.374	60.395	49.523	1.00	0.93
ATOM	1682	OD1	ASN	A	118	76.218	61.178	49.122	1.00	0.93
ATOM	1683	ND2	ASN	A	118	74.227	60.317	48.886	1.00	0.93
ATOM	1684	1HD2	ASN	A	118	73.459	59.749	49.216	1.00	0.93
ATOM	1685	2HD2	ASN	A	118	74.119	60.935	48.105	1.00	0.93
ATOM	1686	C	ASN	A	118	74.483	58.422	52.752	1.00	0.93
ATOM	1687	O	ASN	A	118	74.921	57.339	52.357	1.00	0.93
ATOM	1688	N	LEU	A	119	73.925	58.540	53.961	1.00	0.61
ATOM	1689	H	LEU	A	119	73.488	59.412	54.221	1.00	0.61
ATOM	1690	CA	LEU	A	119	73.926	57.384	54.878	1.00	0.61
ATOM	1691	HA	LEU	A	119	74.755	56.724	54.628	1.00	0.61
ATOM	1692	CB	LEU	A	119	74.090	57.785	56.354	1.00	0.61
ATOM	1693	HB1	LEU	A	119	73.754	56.947	56.967	1.00	0.61
ATOM	1694	HB2	LEU	A	119	73.438	58.633	56.555	1.00	0.61
ATOM	1695	CG	LEU	A	119	75.528	58.146	56.794	1.00	0.61
ATOM	1696	HG	LEU	A	119	75.833	59.070	56.303	1.00	0.61
ATOM	1697	CD1	LEU	A	119	75.546	58.358	58.309	1.00	0.61
ATOM	1698	1HD1	LEU	A	119	76.522	58.733	58.618	1.00	0.61
ATOM	1699	2HD1	LEU	A	119	74.784	59.082	58.586	1.00	0.61
ATOM	1700	3HD1	LEU	A	119	75.342	57.416	58.816	1.00	0.61
ATOM	1701	CD2	LEU	A	119	76.569	57.056	56.508	1.00	0.61
ATOM	1702	1HD2	LEU	A	119	77.534	57.340	56.930	1.00	0.61
ATOM	1703	2HD2	LEU	A	119	76.251	56.103	56.932	1.00	0.61
ATOM	1704	3HD2	LEU	A	119	76.706	56.947	55.435	1.00	0.61
ATOM	1705	C	LEU	A	119	72.637	56.586	54.607	1.00	0.61
ATOM	1706	O	LEU	A	119	71.509	57.090	54.722	1.00	0.61
ATOM	1707	N	TYR	A	120	72.850	55.323	54.226	1.00	0.41
ATOM	1708	H	TYR	A	120	73.800	55.047	54.037	1.00	0.41
ATOM	1709	CA	TYR	A	120	71.834	54.285	54.115	1.00	0.41
ATOM	1710	HA	TYR	A	120	70.873	54.758	53.943	1.00	0.41
ATOM	1711	CB	TYR	A	120	72.104	53.359	52.901	1.00	0.41
ATOM	1712	HB1	TYR	A	120	72.857	52.619	53.167	1.00	0.41

ATOM	1713	HB2	TYR	A	120	72.536	53.975	52.110	1.00	0.41
ATOM	1714	CG	TYR	A	120	70.890	52.637	52.309	1.00	0.41
ATOM	1715	CD1	TYR	A	120	70.763	52.533	50.908	1.00	0.41
ATOM	1716	HD1	TYR	A	120	71.544	52.924	50.266	1.00	0.41
ATOM	1717	CE1	TYR	A	120	69.617	51.939	50.335	1.00	0.41
ATOM	1718	HE1	TYR	A	120	69.508	51.878	49.262	1.00	0.41
ATOM	1719	CZ	TYR	A	120	68.567	51.461	51.152	1.00	0.41
ATOM	1720	OH	TYR	A	120	67.452	50.934	50.576	1.00	0.41
ATOM	1721	HH	TYR	A	120	66.709	50.753	51.200	1.00	0.41
ATOM	1722	CE2	TYR	A	120	68.720	51.509	52.552	1.00	0.41
ATOM	1723	HE2	TYR	A	120	67.931	51.130	53.188	1.00	0.41
ATOM	1724	CD2	TYR	A	120	69.881	52.075	53.121	1.00	0.41
ATOM	1725	HD2	TYR	A	120	69.967	52.094	54.194	1.00	0.41
ATOM	1726	C	TYR	A	120	71.738	53.514	55.425	1.00	0.41
ATOM	1727	O	TYR	A	120	72.535	52.619	55.717	1.00	0.41
ATOM	1728	N	ILE	A	121	70.736	53.883	56.211	1.00	0.29
ATOM	1729	H	ILE	A	121	70.189	54.690	55.920	1.00	0.29
ATOM	1730	CA	ILE	A	121	70.178	53.071	57.291	1.00	0.29
ATOM	1731	HA	ILE	A	121	70.959	52.412	57.666	1.00	0.29
ATOM	1732	CB	ILE	A	121	69.713	53.987	58.453	1.00	0.29
ATOM	1733	HB	ILE	A	121	68.843	54.554	58.120	1.00	0.29
ATOM	1734	CG2	ILE	A	121	69.311	53.145	59.681	1.00	0.29
ATOM	1735	1HG2	ILE	A	121	68.871	53.778	60.447	1.00	0.29
ATOM	1736	2HG2	ILE	A	121	68.553	52.419	59.398	1.00	0.29
ATOM	1737	3HG2	ILE	A	121	70.176	52.620	60.087	1.00	0.29
ATOM	1738	CG1	ILE	A	121	70.818	55.007	58.872	1.00	0.29
ATOM	1739	1HG1	ILE	A	121	71.131	55.559	57.984	1.00	0.29
ATOM	1740	2HG1	ILE	A	121	71.677	54.438	59.229	1.00	0.29
ATOM	1741	CD1	ILE	A	121	70.396	56.035	59.919	1.00	0.29
ATOM	1742	HD1	ILE	A	121	71.246	56.669	60.166	1.00	0.29
ATOM	1743	HD2	ILE	A	121	69.592	56.664	59.542	1.00	0.29
ATOM	1744	HD3	ILE	A	121	70.068	55.568	60.842	1.00	0.29
ATOM	1745	C	ILE	A	121	69.025	52.262	56.704	1.00	0.29
ATOM	1746	O	ILE	A	121	68.219	52.774	55.926	1.00	0.29
ATOM	1747	N	GLU	A	122	69.031	50.991	57.136	1.00	0.42
ATOM	1748	H	GLU	A	122	69.911	50.689	57.538	1.00	0.42
ATOM	1749	CA	GLU	A	122	67.921	50.034	57.301	1.00	0.42
ATOM	1750	HA	GLU	A	122	67.589	49.759	56.310	1.00	0.42
ATOM	1751	CB	GLU	A	122	68.516	48.820	58.005	1.00	0.42
ATOM	1752	HB1	GLU	A	122	67.941	48.545	58.900	1.00	0.42
ATOM	1753	HB2	GLU	A	122	69.486	49.042	58.359	1.00	0.42
ATOM	1754	CG	GLU	A	122	68.656	47.551	57.146	1.00	0.42
ATOM	1755	HG1	GLU	A	122	67.671	47.135	56.963	1.00	0.42
ATOM	1756	HG2	GLU	A	122	69.218	46.823	57.714	1.00	0.42

ATOM	1757	CD	GLU	A	122	69.321	47.832	55.804	1.00	0.42
ATOM	1758	OE1	GLU	A	122	70.493	48.264	55.753	1.00	0.42
ATOM	1759	OE2	GLU	A	122	68.626	47.700	54.776	1.00	0.42
ATOM	1760	C	GLU	A	122	66.672	50.678	58.037	1.00	0.42
ATOM	1761	O	GLU	A	122	66.473	51.921	57.867	1.00	0.42
ATOM	1762	N	ASN	A	123	65.713	49.979	58.768	1.00	0.56
ATOM	1763	H	ASN	A	123	64.915	50.591	58.803	1.00	0.56
ATOM	1764	CA	ASN	A	123	65.501	48.740	59.689	1.00	0.56
ATOM	1765	HA	ASN	A	123	64.441	48.851	59.975	1.00	0.56
ATOM	1766	CB	ASN	A	123	65.500	47.363	58.983	1.00	0.56
ATOM	1767	HB1	ASN	A	123	65.064	46.636	59.662	1.00	0.56
ATOM	1768	HB2	ASN	A	123	66.510	47.036	58.768	1.00	0.56
ATOM	1769	CG	ASN	A	123	64.631	47.361	57.721	1.00	0.56
ATOM	1770	OD1	ASN	A	123	63.421	47.464	57.780	1.00	0.56
ATOM	1771	ND2	ASN	A	123	65.202	47.276	56.547	1.00	0.56
ATOM	1772	1HD2	ASN	A	123	66.196	47.255	56.443	1.00	0.56
ATOM	1773	2HD2	ASN	A	123	64.632	47.583	55.776	1.00	0.56
ATOM	1774	C	ASN	A	123	66.153	48.929	61.051	1.00	0.56
ATOM	1775	O	ASN	A	123	66.812	48.038	61.592	1.00	0.56
ATOM	1776	N	THR	A	124	65.968	50.128	61.594	1.00	0.92
ATOM	1777	H	THR	A	124	65.447	50.789	61.036	1.00	0.92
ATOM	1778	CA	THR	A	124	66.238	50.477	62.998	1.00	0.92
ATOM	1779	HA	THR	A	124	67.271	50.230	63.213	1.00	0.92
ATOM	1780	CB	THR	A	124	66.050	51.984	63.220	1.00	0.92
ATOM	1781	HB	THR	A	124	66.228	52.207	64.273	1.00	0.92
ATOM	1782	CG2	THR	A	124	67.027	52.807	62.382	1.00	0.92
ATOM	1783	1HG2	THR	A	124	66.959	53.848	62.683	1.00	0.92
ATOM	1784	2HG2	THR	A	124	68.044	52.460	62.558	1.00	0.92
ATOM	1785	3HG2	THR	A	124	66.785	52.720	61.322	1.00	0.92
ATOM	1786	OG1	THR	A	124	64.746	52.391	62.874	1.00	0.92
ATOM	1787	HG1	THR	A	124	64.590	52.224	61.931	1.00	0.92
ATOM	1788	C	THR	A	124	65.299	49.722	63.942	1.00	0.92
ATOM	1789	O	THR	A	124	64.137	49.508	63.595	1.00	0.92
ATOM	1790	N	PRO	A	125	65.761	49.353	65.151	1.00	0.87
ATOM	1791	CD	PRO	A	125	67.158	49.282	65.543	1.00	0.87
ATOM	1792	HD1	PRO	A	125	67.701	50.194	65.294	1.00	0.87
ATOM	1793	HD2	PRO	A	125	67.615	48.418	65.061	1.00	0.87
ATOM	1794	CG	PRO	A	125	67.169	49.074	67.044	1.00	0.87
ATOM	1795	HG1	PRO	A	125	67.249	50.043	67.523	1.00	0.87
ATOM	1796	HG2	PRO	A	125	67.996	48.434	67.335	1.00	0.87
ATOM	1797	CB	PRO	A	125	65.819	48.440	67.373	1.00	0.87
ATOM	1798	HB1	PRO	A	125	65.447	48.802	68.330	1.00	0.87
ATOM	1799	HB2	PRO	A	125	65.907	47.362	67.407	1.00	0.87
ATOM	1800	CA	PRO	A	125	64.903	48.808	66.203	1.00	0.87

ATOM	1801	HA	PRO	A	125	64.429	47.897	65.833	1.00	0.87
ATOM	1802	C	PRO	A	125	63.791	49.771	66.608	1.00	0.87
ATOM	1803	O	PRO	A	125	62.613	49.525	66.370	1.00	0.87
ATOM	1804	N	VAL	A	126	64.192	50.911	67.152	1.00	0.78
ATOM	1805	H	VAL	A	126	65.187	51.038	67.296	1.00	0.78
ATOM	1806	CA	VAL	A	126	63.372	52.111	67.316	1.00	0.78
ATOM	1807	HA	VAL	A	126	62.545	52.094	66.606	1.00	0.78
ATOM	1808	CB	VAL	A	126	62.786	52.238	68.739	1.00	0.78
ATOM	1809	HB	VAL	A	126	62.202	53.152	68.795	1.00	0.78
ATOM	1810	CG1	VAL	A	126	61.833	51.087	69.064	1.00	0.78
ATOM	1811	1HG1	VAL	A	126	61.386	51.245	70.043	1.00	0.78
ATOM	1812	2HG1	VAL	A	126	61.051	51.041	68.306	1.00	0.78
ATOM	1813	3HG1	VAL	A	126	62.377	50.144	69.061	1.00	0.78
ATOM	1814	CG2	VAL	A	126	63.844	52.325	69.843	1.00	0.78
ATOM	1815	1HG2	VAL	A	126	63.363	52.445	70.814	1.00	0.78
ATOM	1816	2HG2	VAL	A	126	64.443	51.416	69.854	1.00	0.78
ATOM	1817	3HG2	VAL	A	126	64.504	53.172	69.667	1.00	0.78
ATOM	1818	C	VAL	A	126	64.273	53.308	66.968	1.00	0.78
ATOM	1819	O	VAL	A	126	65.485	53.172	66.800	1.00	0.78
ATOM	1820	N	GLN	A	127	63.643	54.471	66.876	1.00	0.47
ATOM	1821	H	GLN	A	127	62.633	54.428	66.979	1.00	0.47
ATOM	1822	CA	GLN	A	127	64.195	55.826	66.800	1.00	0.47
ATOM	1823	HA	GLN	A	127	63.554	56.344	66.083	1.00	0.47
ATOM	1824	CB	GLN	A	127	63.966	56.541	68.143	1.00	0.47
ATOM	1825	HB1	GLN	A	127	64.255	57.587	68.035	1.00	0.47
ATOM	1826	HB2	GLN	A	127	64.576	56.082	68.923	1.00	0.47
ATOM	1827	CG	GLN	A	127	62.479	56.470	68.530	1.00	0.47
ATOM	1828	HG1	GLN	A	127	62.242	55.470	68.886	1.00	0.47
ATOM	1829	HG2	GLN	A	127	61.881	56.677	67.644	1.00	0.47
ATOM	1830	CD	GLN	A	127	62.070	57.437	69.619	1.00	0.47
ATOM	1831	OE1	GLN	A	127	62.678	57.496	70.687	1.00	0.47
ATOM	1832	NE2	GLN	A	127	61.007	58.174	69.403	1.00	0.47
ATOM	1833	1HE2	GLN	A	127	60.456	58.047	68.540	1.00	0.47
ATOM	1834	2HE2	GLN	A	127	60.701	58.837	70.087	1.00	0.47
ATOM	1835	C	GLN	A	127	65.647	56.067	66.284	1.00	0.47
ATOM	1836	O	GLN	A	127	66.686	55.739	66.880	1.00	0.47
ATOM	1837	N	ALA	A	128	65.721	56.736	65.137	1.00	0.40
ATOM	1838	H	ALA	A	128	64.907	57.231	64.799	1.00	0.40
ATOM	1839	CA	ALA	A	128	66.752	56.492	64.151	1.00	0.40
ATOM	1840	HA	ALA	A	128	67.182	55.513	64.348	1.00	0.40
ATOM	1841	CB	ALA	A	128	66.092	56.419	62.769	1.00	0.40
ATOM	1842	HB1	ALA	A	128	66.839	56.176	62.013	1.00	0.40
ATOM	1843	HB2	ALA	A	128	65.312	55.656	62.761	1.00	0.40
ATOM	1844	HB3	ALA	A	128	65.643	57.376	62.517	1.00	0.40

ATOM	1845	C	ALA A 128	67.879	57.500	64.164	1.00	0.40
ATOM	1846	O	ALA A 128	69.029	57.081	64.223	1.00	0.40
ATOM	1847	N	VAL A 129	67.571	58.796	64.166	1.00	0.62
ATOM	1848	H	VAL A 129	66.612	59.068	63.979	1.00	0.62
ATOM	1849	CA	VAL A 129	68.574	59.853	64.312	1.00	0.62
ATOM	1850	HA	VAL A 129	69.507	59.427	64.672	1.00	0.62
ATOM	1851	CB	VAL A 129	68.876	60.547	62.963	1.00	0.62
ATOM	1852	HB	VAL A 129	68.003	61.114	62.643	1.00	0.62
ATOM	1853	CG1	VAL A 129	70.065	61.505	63.101	1.00	0.62
ATOM	1854	1HG1	VAL A 129	70.245	62.016	62.156	1.00	0.62
ATOM	1855	2HG1	VAL A 129	69.848	62.250	63.862	1.00	0.62
ATOM	1856	3HG1	VAL A 129	70.961	60.956	63.391	1.00	0.62
ATOM	1857	CG2	VAL A 129	69.235	59.559	61.844	1.00	0.62
ATOM	1858	1HG2	VAL A 129	69.451	60.109	60.930	1.00	0.62
ATOM	1859	2HG2	VAL A 129	70.098	58.957	62.130	1.00	0.62
ATOM	1860	3HG2	VAL A 129	68.389	58.903	61.642	1.00	0.62
ATOM	1861	C	VAL A 129	68.100	60.836	65.369	1.00	0.62
ATOM	1862	O	VAL A 129	67.244	61.671	65.084	1.00	0.62
ATOM	1863	N	SER A 130	68.638	60.734	66.591	1.00	0.59
ATOM	1864	H	SER A 130	69.460	60.145	66.716	1.00	0.59
ATOM	1865	CA	SER A 130	68.389	61.824	67.541	1.00	0.59
ATOM	1866	HA	SER A 130	67.363	62.179	67.450	1.00	0.59
ATOM	1867	CB	SER A 130	68.612	61.394	68.990	1.00	0.59
ATOM	1868	HB1	SER A 130	69.658	61.120	69.134	1.00	0.59
ATOM	1869	HB2	SER A 130	67.986	60.526	69.202	1.00	0.59
ATOM	1870	OG	SER A 130	68.264	62.439	69.882	1.00	0.59
ATOM	1871	HG	SER A 130	67.316	62.705	69.716	1.00	0.59
ATOM	1872	C	SER A 130	69.321	62.947	67.136	1.00	0.59
ATOM	1873	O	SER A 130	70.381	62.676	66.582	1.00	0.59
ATOM	1874	N	ILE A 131	68.943	64.192	67.358	1.00	0.45
ATOM	1875	H	ILE A 131	67.999	64.358	67.686	1.00	0.45
ATOM	1876	CA	ILE A 131	69.748	65.345	66.990	1.00	0.45
ATOM	1877	HA	ILE A 131	70.791	65.049	66.922	1.00	0.45
ATOM	1878	CB	ILE A 131	69.341	65.965	65.628	1.00	0.45
ATOM	1879	HB	ILE A 131	68.340	66.392	65.703	1.00	0.45
ATOM	1880	CG2	ILE A 131	70.348	67.094	65.344	1.00	0.45
ATOM	1881	1HG2	ILE A 131	70.157	67.558	64.382	1.00	0.45
ATOM	1882	2HG2	ILE A 131	70.266	67.879	66.096	1.00	0.45
ATOM	1883	3HG2	ILE A 131	71.357	66.683	65.363	1.00	0.45
ATOM	1884	CG1	ILE A 131	69.343	64.940	64.471	1.00	0.45
ATOM	1885	1HG1	ILE A 131	68.659	64.130	64.721	1.00	0.45
ATOM	1886	2HG1	ILE A 131	70.346	64.525	64.367	1.00	0.45
ATOM	1887	CD1	ILE A 131	68.891	65.484	63.108	1.00	0.45
ATOM	1888	HD1	ILE A 131	69.567	66.257	62.749	1.00	0.45

ATOM	1889	HD2	ILE	A	131	68.890	64.671	62.384	1.00	0.45
ATOM	1890	HD3	ILE	A	131	67.883	65.890	63.185	1.00	0.45
ATOM	1891	C	ILE	A	131	69.595	66.353	68.117	1.00	0.45
ATOM	1892	O	ILE	A	131	68.557	67.002	68.251	1.00	0.45
ATOM	1893	N	ASN	A	132	70.630	66.461	68.944	1.00	0.85
ATOM	1894	H	ASN	A	132	71.489	65.961	68.742	1.00	0.85
ATOM	1895	CA	ASN	A	132	70.531	67.217	70.188	1.00	0.85
ATOM	1896	HA	ASN	A	132	69.747	67.963	70.098	1.00	0.85
ATOM	1897	CB	ASN	A	132	70.119	66.268	71.338	1.00	0.85
ATOM	1898	HB1	ASN	A	132	70.196	65.234	71.026	1.00	0.85
ATOM	1899	HB2	ASN	A	132	69.066	66.442	71.561	1.00	0.85
ATOM	1900	CG	ASN	A	132	70.930	66.420	72.619	1.00	0.85
ATOM	1901	OD1	ASN	A	132	72.084	66.047	72.709	1.00	0.85
ATOM	1902	ND2	ASN	A	132	70.355	66.995	73.646	1.00	0.85
ATOM	1903	1HD2	ASN	A	132	69.391	67.343	73.570	1.00	0.85
ATOM	1904	2HD2	ASN	A	132	70.885	67.079	74.488	1.00	0.85
ATOM	1905	C	ASN	A	132	71.823	67.989	70.467	1.00	0.85
ATOM	1906	O	ASN	A	132	72.930	67.547	70.144	1.00	0.85
ATOM	1907	N	GLY	A	133	71.683	69.178	71.056	1.00	1.11
ATOM	1908	H	GLY	A	133	70.765	69.553	71.253	1.00	1.11
ATOM	1909	CA	GLY	A	133	72.829	70.011	71.391	1.00	1.11
ATOM	1910	HA1	GLY	A	133	73.380	69.543	72.207	1.00	1.11
ATOM	1911	HA2	GLY	A	133	72.490	70.989	71.730	1.00	1.11
ATOM	1912	C	GLY	A	133	73.783	70.209	70.230	1.00	1.11
ATOM	1913	O	GLY	A	133	74.984	70.107	70.420	1.00	1.11
ATOM	1914	N	CYS	A	134	73.244	70.358	69.022	1.00	0.94
ATOM	1915	H	CYS	A	134	72.246	70.455	68.978	1.00	0.94
ATOM	1916	CA	CYS	A	134	74.007	70.501	67.791	1.00	0.94
ATOM	1917	HA	CYS	A	134	75.065	70.345	68.006	1.00	0.94
ATOM	1918	CB	CYS	A	134	73.552	69.467	66.754	1.00	0.94
ATOM	1919	HB1	CYS	A	134	74.007	69.710	65.793	1.00	0.94
ATOM	1920	HB2	CYS	A	134	72.466	69.493	66.650	1.00	0.94
ATOM	1921	SG	CYS	A	134	74.096	67.810	67.236	1.00	0.94
ATOM	1922	HG	CYS	A	134	73.532	67.802	68.452	1.00	0.94
ATOM	1923	C	CYS	A	134	73.851	71.912	67.247	1.00	0.94
ATOM	1924	O	CYS	A	134	72.773	72.492	67.382	1.00	0.94
ATOM	1925	N	ASP	A	135	74.879	72.441	66.584	1.00	0.93
ATOM	1926	H	ASP	A	135	75.748	71.921	66.505	1.00	0.93
ATOM	1927	CA	ASP	A	135	74.784	73.766	65.967	1.00	0.93
ATOM	1928	HA	ASP	A	135	73.733	73.981	65.807	1.00	0.93
ATOM	1929	CB	ASP	A	135	75.297	74.868	66.910	1.00	0.93
ATOM	1930	HB1	ASP	A	135	76.347	75.083	66.711	1.00	0.93
ATOM	1931	HB2	ASP	A	135	75.215	74.528	67.944	1.00	0.93
ATOM	1932	CG	ASP	A	135	74.469	76.151	66.753	1.00	0.93

ATOM	1933	OD1	ASP	A	135	74.318	76.649	65.610	1.00	0.93
ATOM	1934	OD2	ASP	A	135	73.900	76.602	67.772	1.00	0.93
ATOM	1935	C	ASP	A	135	75.460	73.818	64.598	1.00	0.93
ATOM	1936	O	ASP	A	135	76.664	73.567	64.468	1.00	0.93
ATOM	1937	N	GLY	A	136	74.668	74.093	63.558	1.00	0.92
ATOM	1938	H	GLY	A	136	73.685	74.282	63.729	1.00	0.92
ATOM	1939	CA	GLY	A	136	75.169	74.067	62.186	1.00	0.92
ATOM	1940	HA1	GLY	A	136	76.107	74.621	62.129	1.00	0.92
ATOM	1941	HA2	GLY	A	136	74.451	74.541	61.520	1.00	0.92
ATOM	1942	C	GLY	A	136	75.423	72.637	61.710	1.00	0.92
ATOM	1943	O	GLY	A	136	76.556	72.227	61.467	1.00	0.92
ATOM	1944	N	LEU	A	137	74.358	71.844	61.625	1.00	0.43
ATOM	1945	H	LEU	A	137	73.453	72.266	61.806	1.00	0.43
ATOM	1946	CA	LEU	A	137	74.431	70.424	61.295	1.00	0.43
ATOM	1947	HA	LEU	A	137	75.460	70.162	61.052	1.00	0.43
ATOM	1948	CB	LEU	A	137	74.032	69.617	62.541	1.00	0.43
ATOM	1949	HB1	LEU	A	137	73.046	69.954	62.867	1.00	0.43
ATOM	1950	HB2	LEU	A	137	74.742	69.840	63.340	1.00	0.43
ATOM	1951	CG	LEU	A	137	73.975	68.093	62.330	1.00	0.43
ATOM	1952	HG	LEU	A	137	73.219	67.857	61.584	1.00	0.43
ATOM	1953	CD1	LEU	A	137	75.311	67.496	61.892	1.00	0.43
ATOM	1954	1HD1	LEU	A	137	75.249	66.410	61.911	1.00	0.43
ATOM	1955	2HD1	LEU	A	137	75.537	67.805	60.874	1.00	0.43
ATOM	1956	3HD1	LEU	A	137	76.098	67.833	62.565	1.00	0.43
ATOM	1957	CD2	LEU	A	137	73.571	67.434	63.642	1.00	0.43
ATOM	1958	1HD2	LEU	A	137	73.371	66.375	63.481	1.00	0.43
ATOM	1959	2HD2	LEU	A	137	74.368	67.546	64.374	1.00	0.43
ATOM	1960	3HD2	LEU	A	137	72.673	67.916	64.023	1.00	0.43
ATOM	1961	C	LEU	A	137	73.559	70.109	60.071	1.00	0.43
ATOM	1962	O	LEU	A	137	72.327	70.152	60.121	1.00	0.43
ATOM	1963	N	THR	A	138	74.217	69.735	58.977	1.00	0.45
ATOM	1964	H	THR	A	138	75.226	69.643	59.044	1.00	0.45
ATOM	1965	CA	THR	A	138	73.564	69.264	57.750	1.00	0.45
ATOM	1966	HA	THR	A	138	72.560	69.675	57.694	1.00	0.45
ATOM	1967	CB	THR	A	138	74.328	69.718	56.490	1.00	0.45
ATOM	1968	HB	THR	A	138	73.937	69.177	55.628	1.00	0.45
ATOM	1969	CG2	THR	A	138	74.186	71.213	56.214	1.00	0.45
ATOM	1970	1HG2	THR	A	138	74.893	71.514	55.440	1.00	0.45
ATOM	1971	2HG2	THR	A	138	73.182	71.416	55.847	1.00	0.45
ATOM	1972	3HG2	THR	A	138	74.373	71.793	57.119	1.00	0.45
ATOM	1973	OG1	THR	A	138	75.710	69.472	56.575	1.00	0.45
ATOM	1974	HG1	THR	A	138	76.073	70.081	57.232	1.00	0.45
ATOM	1975	C	THR	A	138	73.441	67.734	57.731	1.00	0.45
ATOM	1976	O	THR	A	138	74.343	67.039	58.210	1.00	0.45

ATOM	1977	N	ILE	A	139	72.337	67.186	57.182	1.00	0.45
ATOM	1978	H	ILE	A	139	71.574	67.749	56.841	1.00	0.45
ATOM	1979	CA	ILE	A	139	72.046	65.749	57.238	1.00	0.45
ATOM	1980	HA	ILE	A	139	72.740	65.319	57.952	1.00	0.45
ATOM	1981	CB	ILE	A	139	70.642	65.500	57.840	1.00	0.45
ATOM	1982	HB	ILE	A	139	70.093	66.439	57.826	1.00	0.45
ATOM	1983	CG2	ILE	A	139	69.804	64.474	57.066	1.00	0.45
ATOM	1984	1HG2	ILE	A	139	69.662	64.794	56.034	1.00	0.45
ATOM	1985	2HG2	ILE	A	139	70.299	63.503	57.088	1.00	0.45
ATOM	1986	3HG2	ILE	A	139	68.834	64.364	57.545	1.00	0.45
ATOM	1987	CG1	ILE	A	139	70.725	65.028	59.311	1.00	0.45
ATOM	1988	1HG1	ILE	A	139	71.275	64.087	59.357	1.00	0.45
ATOM	1989	2HG1	ILE	A	139	69.717	64.840	59.683	1.00	0.45
ATOM	1990	CD1	ILE	A	139	71.388	66.035	60.259	1.00	0.45
ATOM	1991	HD1	ILE	A	139	71.340	65.653	61.279	1.00	0.45
ATOM	1992	HD2	ILE	A	139	72.437	66.171	60.002	1.00	0.45
ATOM	1993	HD3	ILE	A	139	70.871	66.994	60.209	1.00	0.45
ATOM	1994	C	ILE	A	139	72.371	64.942	55.931	1.00	0.45
ATOM	1995	O	ILE	A	139	72.595	63.727	55.963	1.00	0.45
ATOM	1996	N	THR	A	140	72.465	65.654	54.804	1.00	0.50
ATOM	1997	H	THR	A	140	72.722	66.614	54.954	1.00	0.50
ATOM	1998	CA	THR	A	140	71.881	65.358	53.473	1.00	0.50
ATOM	1999	HA	THR	A	140	70.823	65.589	53.569	1.00	0.50
ATOM	2000	CB	THR	A	140	72.440	66.376	52.452	1.00	0.50
ATOM	2001	HB	THR	A	140	72.373	67.369	52.894	1.00	0.50
ATOM	2002	CG2	THR	A	140	73.909	66.154	52.083	1.00	0.50
ATOM	2003	1HG2	THR	A	140	74.251	66.978	51.457	1.00	0.50
ATOM	2004	2HG2	THR	A	140	74.514	66.127	52.990	1.00	0.50
ATOM	2005	3HG2	THR	A	140	74.038	65.217	51.542	1.00	0.50
ATOM	2006	OG1	THR	A	140	71.704	66.393	51.245	1.00	0.50
ATOM	2007	HG1	THR	A	140	71.993	65.635	50.727	1.00	0.50
ATOM	2008	C	THR	A	140	71.960	63.966	52.845	1.00	0.50
ATOM	2009	O	THR	A	140	72.950	63.249	52.917	1.00	0.50
ATOM	2010	N	ASP	A	141	70.915	63.647	52.071	1.00	0.52
ATOM	2011	H	ASP	A	141	70.069	64.183	52.214	1.00	0.52
ATOM	2012	CA	ASP	A	141	70.707	62.368	51.406	1.00	0.52
ATOM	2013	HA	ASP	A	141	69.646	62.362	51.160	1.00	0.52
ATOM	2014	CB	ASP	A	141	71.462	62.222	50.078	1.00	0.52
ATOM	2015	HB1	ASP	A	141	72.464	61.834	50.255	1.00	0.52
ATOM	2016	HB2	ASP	A	141	71.540	63.196	49.592	1.00	0.52
ATOM	2017	CG	ASP	A	141	70.644	61.293	49.181	1.00	0.52
ATOM	2018	OD1	ASP	A	141	69.490	61.675	48.876	1.00	0.52
ATOM	2019	OD2	ASP	A	141	71.028	60.125	48.952	1.00	0.52
ATOM	2020	C	ASP	A	141	70.876	61.240	52.430	1.00	0.52

ATOM	2021	O	ASP	A	141	71.604	60.247	52.299	1.00	0.52
ATOM	2022	N	MET	A	142	70.163	61.446	53.532	1.00	0.59
ATOM	2023	H	MET	A	142	69.657	62.306	53.652	1.00	0.59
ATOM	2024	CA	MET	A	142	69.835	60.282	54.341	1.00	0.59
ATOM	2025	HA	MET	A	142	70.736	59.696	54.542	1.00	0.59
ATOM	2026	CB	MET	A	142	69.222	60.763	55.667	1.00	0.59
ATOM	2027	HB1	MET	A	142	68.136	60.691	55.606	1.00	0.59
ATOM	2028	HB2	MET	A	142	69.473	61.808	55.840	1.00	0.59
ATOM	2029	CG	MET	A	142	69.702	59.954	56.871	1.00	0.59
ATOM	2030	HG1	MET	A	142	69.662	58.891	56.636	1.00	0.59
ATOM	2031	HG2	MET	A	142	69.024	60.148	57.700	1.00	0.59
ATOM	2032	SD	MET	A	142	71.369	60.374	57.428	1.00	0.59
ATOM	2033	CE	MET	A	142	71.573	59.067	58.662	1.00	0.59
ATOM	2034	HE1	MET	A	142	71.526	58.097	58.167	1.00	0.59
ATOM	2035	HE2	MET	A	142	72.534	59.176	59.162	1.00	0.59
ATOM	2036	HE3	MET	A	142	70.774	59.129	59.398	1.00	0.59
ATOM	2037	C	MET	A	142	68.811	59.420	53.580	1.00	0.59
ATOM	2038	O	MET	A	142	68.195	59.829	52.574	1.00	0.59
ATOM	2039	N	THR	A	143	68.670	58.219	54.126	1.00	0.31
ATOM	2040	H	THR	A	143	69.223	58.015	54.954	1.00	0.31
ATOM	2041	CA	THR	A	143	67.979	57.051	53.642	1.00	0.31
ATOM	2042	HA	THR	A	143	66.961	57.275	53.347	1.00	0.31
ATOM	2043	CB	THR	A	143	68.776	56.341	52.534	1.00	0.31
ATOM	2044	HB	THR	A	143	69.737	56.029	52.928	1.00	0.31
ATOM	2045	CG2	THR	A	143	68.048	55.115	51.995	1.00	0.31
ATOM	2046	1HG2	THR	A	143	67.023	55.363	51.725	1.00	0.31
ATOM	2047	2HG2	THR	A	143	68.570	54.728	51.120	1.00	0.31
ATOM	2048	3HG2	THR	A	143	68.032	54.333	52.753	1.00	0.31
ATOM	2049	OG1	THR	A	143	69.045	57.198	51.449	1.00	0.31
ATOM	2050	HG1	THR	A	143	69.870	57.650	51.670	1.00	0.31
ATOM	2051	C	THR	A	143	68.020	56.182	54.902	1.00	0.31
ATOM	2052	O	THR	A	143	68.960	56.188	55.693	1.00	0.31
ATOM	2053	N	ILE	A	144	66.929	55.506	55.121	1.00	0.57
ATOM	2054	H	ILE	A	144	66.357	55.354	54.302	1.00	0.57
ATOM	2055	CA	ILE	A	144	66.143	55.334	56.341	1.00	0.57
ATOM	2056	HA	ILE	A	144	66.595	54.577	56.983	1.00	0.57
ATOM	2057	CB	ILE	A	144	65.816	56.626	57.160	1.00	0.57
ATOM	2058	HB	ILE	A	144	65.269	57.318	56.520	1.00	0.57
ATOM	2059	CG2	ILE	A	144	64.906	56.230	58.338	1.00	0.57
ATOM	2060	1HG2	ILE	A	144	64.511	57.114	58.837	1.00	0.57
ATOM	2061	2HG2	ILE	A	144	64.053	55.675	57.972	1.00	0.57
ATOM	2062	3HG2	ILE	A	144	65.460	55.618	59.051	1.00	0.57
ATOM	2063	CG1	ILE	A	144	67.052	57.372	57.710	1.00	0.57
ATOM	2064	1HG1	ILE	A	144	67.534	57.886	56.882	1.00	0.57

ATOM	2065	2HG1	ILE	A	144	67.747	56.645	58.125	1.00	0.57
ATOM	2066	CD1	ILE	A	144	66.792	58.447	58.781	1.00	0.57
ATOM	2067	HD1	ILE	A	144	67.724	58.961	59.012	1.00	0.57
ATOM	2068	HD2	ILE	A	144	66.065	59.173	58.414	1.00	0.57
ATOM	2069	HD3	ILE	A	144	66.432	57.994	59.705	1.00	0.57
ATOM	2070	C	ILE	A	144	64.922	54.802	55.624	1.00	0.57
ATOM	2071	O	ILE	A	144	64.434	55.521	54.709	1.00	0.57
ATOM	2072	N	ASP	A	145	64.696	53.523	55.963	1.00	0.56
ATOM	2073	H	ASP	A	145	65.225	53.232	56.778	1.00	0.56
ATOM	2074	CA	ASP	A	145	64.259	52.348	55.168	1.00	0.56
ATOM	2075	HA	ASP	A	145	63.357	52.659	54.653	1.00	0.56
ATOM	2076	CB	ASP	A	145	65.237	51.935	54.076	1.00	0.56
ATOM	2077	HB1	ASP	A	145	66.104	51.452	54.528	1.00	0.56
ATOM	2078	HB2	ASP	A	145	65.572	52.826	53.541	1.00	0.56
ATOM	2079	CG	ASP	A	145	64.567	50.985	53.068	1.00	0.56
ATOM	2080	OD1	ASP	A	145	63.360	50.640	53.214	1.00	0.56
ATOM	2081	OD2	ASP	A	145	65.301	50.642	52.113	1.00	0.56
ATOM	2082	C	ASP	A	145	63.858	51.188	56.081	1.00	0.56
ATOM	2083	O	ASP	A	145	64.390	50.083	56.075	1.00	0.56
ATOM	2084	N	ASN	A	146	62.917	51.510	56.955	1.00	0.73
ATOM	2085	H	ASN	A	146	62.526	52.443	56.873	1.00	0.73
ATOM	2086	CA	ASN	A	146	62.280	50.641	57.929	1.00	0.73
ATOM	2087	HA	ASN	A	146	62.955	49.813	58.137	1.00	0.73
ATOM	2088	CB	ASN	A	146	62.051	51.422	59.245	1.00	0.73
ATOM	2089	HB1	ASN	A	146	61.927	50.711	60.062	1.00	0.73
ATOM	2090	HB2	ASN	A	146	61.126	51.989	59.178	1.00	0.73
ATOM	2091	CG	ASN	A	146	63.178	52.377	59.593	1.00	0.73
ATOM	2092	OD1	ASN	A	146	64.158	52.009	60.233	1.00	0.73
ATOM	2093	ND2	ASN	A	146	63.097	53.607	59.136	1.00	0.73
ATOM	2094	1HD2	ASN	A	146	62.320	53.857	58.532	1.00	0.73
ATOM	2095	2HD2	ASN	A	146	63.898	54.202	59.251	1.00	0.73
ATOM	2096	C	ASN	A	146	60.993	50.035	57.384	1.00	0.73
ATOM	2097	O	ASN	A	146	60.148	49.635	58.170	1.00	0.73
ATOM	2098	N	SER	A	147	60.841	49.971	56.064	1.00	0.95
ATOM	2099	H	SER	A	147	61.630	50.245	55.496	1.00	0.95
ATOM	2100	CA	SER	A	147	59.700	49.385	55.353	1.00	0.95
ATOM	2101	HA	SER	A	147	58.851	50.067	55.429	1.00	0.95
ATOM	2102	CB	SER	A	147	60.105	49.268	53.870	1.00	0.95
ATOM	2103	HB1	SER	A	147	60.120	50.264	53.426	1.00	0.95
ATOM	2104	HB2	SER	A	147	59.367	48.663	53.341	1.00	0.95
ATOM	2105	OG	SER	A	147	61.398	48.683	53.719	1.00	0.95
ATOM	2106	HG	SER	A	147	62.054	49.363	53.437	1.00	0.95
ATOM	2107	C	SER	A	147	59.247	48.037	55.933	1.00	0.95
ATOM	2108	O	SER	A	147	58.062	47.845	56.188	1.00	0.95

ATOM	2109	N	ALA	A	148	60.181	47.126	56.234	1.00	1.21
ATOM	2110	H	ALA	A	148	61.142	47.340	56.007	1.00	1.21
ATOM	2111	CA	ALA	A	148	59.860	45.823	56.821	1.00	1.21
ATOM	2112	HA	ALA	A	148	59.237	45.289	56.102	1.00	1.21
ATOM	2113	CB	ALA	A	148	61.153	45.019	57.000	1.00	1.21
ATOM	2114	HB1	ALA	A	148	60.907	44.005	57.318	1.00	1.21
ATOM	2115	HB2	ALA	A	148	61.699	44.973	56.057	1.00	1.21
ATOM	2116	HB3	ALA	A	148	61.782	45.483	57.758	1.00	1.21
ATOM	2117	C	ALA	A	148	59.040	45.893	58.132	1.00	1.21
ATOM	2118	O	ALA	A	148	58.165	45.060	58.404	1.00	1.21
ATOM	2119	N	GLY	A	149	59.301	46.942	58.910	1.00	1.27
ATOM	2120	H	GLY	A	149	59.940	47.639	58.547	1.00	1.27
ATOM	2121	CA	GLY	A	149	58.598	47.299	60.129	1.00	1.27
ATOM	2122	HA1	GLY	A	149	58.895	48.306	60.420	1.00	1.27
ATOM	2123	HA2	GLY	A	149	58.865	46.607	60.926	1.00	1.27
ATOM	2124	C	GLY	A	149	57.088	47.285	59.973	1.00	1.27
ATOM	2125	O	GLY	A	149	56.418	46.767	60.861	1.00	1.27
ATOM	2126	N	ASP	A	150	56.562	47.772	58.848	1.00	1.29
ATOM	2127	H	ASP	A	150	57.168	48.148	58.125	1.00	1.29
ATOM	2128	CA	ASP	A	150	55.118	47.841	58.612	1.00	1.29
ATOM	2129	HA	ASP	A	150	54.664	48.432	59.410	1.00	1.29
ATOM	2130	CB	ASP	A	150	54.855	48.572	57.282	1.00	1.29
ATOM	2131	HB1	ASP	A	150	53.790	48.510	57.049	1.00	1.29
ATOM	2132	HB2	ASP	A	150	55.397	48.077	56.475	1.00	1.29
ATOM	2133	CG	ASP	A	150	55.241	50.051	57.350	1.00	1.29
ATOM	2134	OD1	ASP	A	150	56.314	50.428	56.824	1.00	1.29
ATOM	2135	OD2	ASP	A	150	54.491	50.814	57.987	1.00	1.29
ATOM	2136	C	ASP	A	150	54.404	46.482	58.619	1.00	1.29
ATOM	2137	O	ASP	A	150	53.209	46.430	58.911	1.00	1.29
ATOM	2138	N	ASP	A	151	55.117	45.385	58.346	1.00	1.51
ATOM	2139	H	ASP	A	151	56.095	45.490	58.113	1.00	1.51
ATOM	2140	CA	ASP	A	151	54.583	44.026	58.518	1.00	1.51
ATOM	2141	HA	ASP	A	151	53.493	44.028	58.468	1.00	1.51
ATOM	2142	CB	ASP	A	151	55.113	43.170	57.356	1.00	1.51
ATOM	2143	HB1	ASP	A	151	56.205	43.171	57.379	1.00	1.51
ATOM	2144	HB2	ASP	A	151	54.804	43.627	56.413	1.00	1.51
ATOM	2145	CG	ASP	A	151	54.611	41.723	57.384	1.00	1.51
ATOM	2146	OD1	ASP	A	151	55.404	40.853	57.813	1.00	1.51
ATOM	2147	OD2	ASP	A	151	53.474	41.490	56.918	1.00	1.51
ATOM	2148	C	ASP	A	151	54.996	43.441	59.881	1.00	1.51
ATOM	2149	O	ASP	A	151	54.221	42.749	60.544	1.00	1.51
ATOM	2150	N	ALA	A	152	56.200	43.777	60.352	1.00	1.43
ATOM	2151	H	ALA	A	152	56.755	44.424	59.807	1.00	1.43
ATOM	2152	CA	ALA	A	152	56.874	42.994	61.383	1.00	1.43

ATOM	2153	HA	ALA	A	152	56.352	42.043	61.497	1.00	1.43
ATOM	2154	CB	ALA	A	152	58.279	42.677	60.851	1.00	1.43
ATOM	2155	HB1	ALA	A	152	58.826	42.070	61.573	1.00	1.43
ATOM	2156	HB2	ALA	A	152	58.193	42.124	59.914	1.00	1.43
ATOM	2157	HB3	ALA	A	152	58.818	43.605	60.665	1.00	1.43
ATOM	2158	C	ALA	A	152	56.875	43.653	62.779	1.00	1.43
ATOM	2159	O	ALA	A	152	57.743	43.366	63.601	1.00	1.43
ATOM	2160	N	GLY	A	153	55.921	44.546	63.061	1.00	1.30
ATOM	2161	H	GLY	A	153	55.283	44.796	62.315	1.00	1.30
ATOM	2162	CA	GLY	A	153	55.736	45.121	64.401	1.00	1.30
ATOM	2163	HA1	GLY	A	153	55.882	44.343	65.152	1.00	1.30
ATOM	2164	HA2	GLY	A	153	54.713	45.487	64.476	1.00	1.30
ATOM	2165	C	GLY	A	153	56.673	46.282	64.730	1.00	1.30
ATOM	2166	O	GLY	A	153	56.980	46.522	65.899	1.00	1.30
ATOM	2167	N	GLY	A	154	57.144	47.005	63.719	1.00	1.01
ATOM	2168	H	GLY	A	154	56.822	46.781	62.782	1.00	1.01
ATOM	2169	CA	GLY	A	154	57.872	48.248	63.918	1.00	1.01
ATOM	2170	HA1	GLY	A	154	58.280	48.586	62.966	1.00	1.01
ATOM	2171	HA2	GLY	A	154	58.702	48.076	64.603	1.00	1.01
ATOM	2172	C	GLY	A	154	56.967	49.349	64.474	1.00	1.01
ATOM	2173	O	GLY	A	154	55.875	49.594	63.970	1.00	1.01
ATOM	2174	N	HIS	A	155	57.429	50.023	65.526	1.00	0.88
ATOM	2175	H	HIS	A	155	58.319	49.758	65.921	1.00	0.88
ATOM	2176	CA	HIS	A	155	56.724	51.152	66.137	1.00	0.88
ATOM	2177	HA	HIS	A	155	56.227	51.730	65.354	1.00	0.88
ATOM	2178	CB	HIS	A	155	55.647	50.615	67.100	1.00	0.88
ATOM	2179	HB1	HIS	A	155	56.126	50.036	67.891	1.00	0.88
ATOM	2180	HB2	HIS	A	155	54.978	49.947	66.556	1.00	0.88
ATOM	2181	CG	HIS	A	155	54.803	51.696	67.728	1.00	0.88
ATOM	2182	ND1	HIS	A	155	54.535	52.943	67.164	1.00	0.88
ATOM	2183	CE1	HIS	A	155	53.871	53.645	68.090	1.00	0.88
ATOM	2184	HE1	HIS	A	155	53.562	54.677	67.973	1.00	0.88
ATOM	2185	NE2	HIS	A	155	53.680	52.891	69.187	1.00	0.88
ATOM	2186	HE2	HIS	A	155	53.239	53.198	70.045	1.00	0.88
ATOM	2187	CD2	HIS	A	155	54.267	51.660	68.978	1.00	0.88
ATOM	2188	HD2	HIS	A	155	54.325	50.831	69.670	1.00	0.88
ATOM	2189	C	HIS	A	155	57.722	52.078	66.852	1.00	0.88
ATOM	2190	O	HIS	A	155	58.781	51.622	67.283	1.00	0.88
ATOM	2191	N	ASN	A	156	57.379	53.362	67.007	1.00	0.74
ATOM	2192	H	ASN	A	156	56.430	53.619	66.743	1.00	0.74
ATOM	2193	CA	ASN	A	156	58.290	54.465	67.332	1.00	0.74
ATOM	2194	HA	ASN	A	156	57.824	55.394	67.004	1.00	0.74
ATOM	2195	CB	ASN	A	156	58.541	54.602	68.837	1.00	0.74
ATOM	2196	HB1	ASN	A	156	59.138	55.498	69.004	1.00	0.74

ATOM	2197	HB2	ASN	A	156	59.114	53.740	69.174	1.00	0.74
ATOM	2198	CG	ASN	A	156	57.318	54.723	69.704	1.00	0.74
ATOM	2199	OD1	ASN	A	156	57.192	53.955	70.644	1.00	0.74
ATOM	2200	ND2	ASN	A	156	56.441	55.676	69.498	1.00	0.74
ATOM	2201	1HD2	ASN	A	156	56.460	56.227	68.630	1.00	0.74
ATOM	2202	2HD2	ASN	A	156	55.692	55.797	70.151	1.00	0.74
ATOM	2203	C	ASN	A	156	59.628	54.385	66.577	1.00	0.74
ATOM	2204	O	ASN	A	156	60.718	54.382	67.160	1.00	0.74
ATOM	2205	N	THR	A	157	59.560	54.256	65.258	1.00	0.76
ATOM	2206	H	THR	A	157	58.656	54.246	64.806	1.00	0.76
ATOM	2207	CA	THR	A	157	60.745	54.245	64.395	1.00	0.76
ATOM	2208	HA	THR	A	157	61.637	54.040	64.982	1.00	0.76
ATOM	2209	CB	THR	A	157	60.650	53.125	63.331	1.00	0.76
ATOM	2210	HB	THR	A	157	61.449	53.239	62.597	1.00	0.76
ATOM	2211	CG2	THR	A	157	60.770	51.732	63.946	1.00	0.76
ATOM	2212	1HG2	THR	A	157	60.654	50.972	63.173	1.00	0.76
ATOM	2213	2HG2	THR	A	157	61.755	51.615	64.396	1.00	0.76
ATOM	2214	3HG2	THR	A	157	60.005	51.586	64.707	1.00	0.76
ATOM	2215	OG1	THR	A	157	59.402	53.163	62.677	1.00	0.76
ATOM	2216	HG1	THR	A	157	59.307	52.338	62.153	1.00	0.76
ATOM	2217	C	THR	A	157	60.965	55.625	63.767	1.00	0.76
ATOM	2218	O	THR	A	157	61.299	55.736	62.589	1.00	0.76
ATOM	2219	N	ASP	A	158	60.758	56.687	64.552	1.00	0.70
ATOM	2220	H	ASP	A	158	60.390	56.544	65.489	1.00	0.70
ATOM	2221	CA	ASP	A	158	60.987	58.090	64.184	1.00	0.70
ATOM	2222	HA	ASP	A	158	60.148	58.407	63.571	1.00	0.70
ATOM	2223	CB	ASP	A	158	61.003	58.975	65.447	1.00	0.70
ATOM	2224	HB1	ASP	A	158	61.115	60.016	65.136	1.00	0.70
ATOM	2225	HB2	ASP	A	158	61.875	58.716	66.051	1.00	0.70
ATOM	2226	CG	ASP	A	158	59.754	58.848	66.329	1.00	0.70
ATOM	2227	OD1	ASP	A	158	59.609	57.760	66.944	1.00	0.70
ATOM	2228	OD2	ASP	A	158	59.002	59.835	66.430	1.00	0.70
ATOM	2229	C	ASP	A	158	62.294	58.293	63.401	1.00	0.70
ATOM	2230	O	ASP	A	158	63.355	57.818	63.814	1.00	0.70
ATOM	2231	N	GLY	A	159	62.223	59.008	62.277	1.00	0.79
ATOM	2232	H	GLY	A	159	61.330	59.427	62.032	1.00	0.79
ATOM	2233	CA	GLY	A	159	63.373	59.195	61.389	1.00	0.79
ATOM	2234	HA1	GLY	A	159	63.018	59.551	60.421	1.00	0.79
ATOM	2235	HA2	GLY	A	159	63.888	58.246	61.244	1.00	0.79
ATOM	2236	C	GLY	A	159	64.364	60.220	61.936	1.00	0.79
ATOM	2237	O	GLY	A	159	65.520	59.893	62.212	1.00	0.79
ATOM	2238	N	PHE	A	160	63.881	61.441	62.169	1.00	0.48
ATOM	2239	H	PHE	A	160	62.925	61.646	61.915	1.00	0.48
ATOM	2240	CA	PHE	A	160	64.670	62.500	62.800	1.00	0.48

ATOM	2241	HA	PHE	A	160	65.636	62.108	63.120	1.00	0.48
ATOM	2242	CB	PHE	A	160	64.924	63.624	61.780	1.00	0.48
ATOM	2243	HB1	PHE	A	160	65.538	64.389	62.257	1.00	0.48
ATOM	2244	HB2	PHE	A	160	63.972	64.090	61.522	1.00	0.48
ATOM	2245	CG	PHE	A	160	65.612	63.184	60.502	1.00	0.48
ATOM	2246	CD1	PHE	A	160	66.998	62.945	60.501	1.00	0.48
ATOM	2247	HD1	PHE	A	160	67.563	63.065	61.412	1.00	0.48
ATOM	2248	CE1	PHE	A	160	67.639	62.529	59.323	1.00	0.48
ATOM	2249	HE1	PHE	A	160	68.701	62.330	59.328	1.00	0.48
ATOM	2250	CZ	PHE	A	160	66.896	62.363	58.141	1.00	0.48
ATOM	2251	HZ	PHE	A	160	67.387	62.045	57.239	1.00	0.48
ATOM	2252	CE2	PHE	A	160	65.511	62.589	58.136	1.00	0.48
ATOM	2253	HE2	PHE	A	160	64.935	62.427	57.236	1.00	0.48
ATOM	2254	CD2	PHE	A	160	64.871	62.998	59.318	1.00	0.48
ATOM	2255	HD2	PHE	A	160	63.801	63.151	59.320	1.00	0.48
ATOM	2256	C	PHE	A	160	63.951	63.055	64.030	1.00	0.48
ATOM	2257	O	PHE	A	160	62.855	63.605	63.924	1.00	0.48
ATOM	2258	N	ASP	A	161	64.607	62.971	65.183	1.00	0.56
ATOM	2259	H	ASP	A	161	65.548	62.582	65.188	1.00	0.56
ATOM	2260	CA	ASP	A	161	64.145	63.616	66.412	1.00	0.56
ATOM	2261	HA	ASP	A	161	63.098	63.920	66.360	1.00	0.56
ATOM	2262	CB	ASP	A	161	64.333	62.605	67.566	1.00	0.56
ATOM	2263	HB1	ASP	A	161	65.144	61.917	67.318	1.00	0.56
ATOM	2264	HB2	ASP	A	161	63.425	62.005	67.652	1.00	0.56
ATOM	2265	CG	ASP	A	161	64.651	63.241	68.924	1.00	0.56
ATOM	2266	OD1	ASP	A	161	63.722	63.839	69.514	1.00	0.56
ATOM	2267	OD2	ASP	A	161	65.816	63.110	69.372	1.00	0.56
ATOM	2268	C	ASP	A	161	65.035	64.847	66.561	1.00	0.56
ATOM	2269	O	ASP	A	161	66.241	64.766	66.331	1.00	0.56
ATOM	2270	N	ILE	A	162	64.465	66.010	66.856	1.00	0.77
ATOM	2271	H	ILE	A	162	63.461	66.051	67.010	1.00	0.77
ATOM	2272	CA	ILE	A	162	65.263	67.239	66.876	1.00	0.77
ATOM	2273	HA	ILE	A	162	66.325	66.997	66.924	1.00	0.77
ATOM	2274	CB	ILE	A	162	65.045	68.095	65.603	1.00	0.77
ATOM	2275	HB	ILE	A	162	64.055	68.547	65.653	1.00	0.77
ATOM	2276	CG2	ILE	A	162	66.084	69.232	65.563	1.00	0.77
ATOM	2277	1HG2	ILE	A	162	65.859	69.919	64.750	1.00	0.77
ATOM	2278	2HG2	ILE	A	162	66.061	69.806	66.491	1.00	0.77
ATOM	2279	3HG2	ILE	A	162	67.088	68.826	65.429	1.00	0.77
ATOM	2280	CG1	ILE	A	162	65.103	67.242	64.313	1.00	0.77
ATOM	2281	1HG1	ILE	A	162	64.268	66.539	64.320	1.00	0.77
ATOM	2282	2HG1	ILE	A	162	66.028	66.667	64.305	1.00	0.77
ATOM	2283	CD1	ILE	A	162	65.008	68.028	63.001	1.00	0.77
ATOM	2284	HD1	ILE	A	162	64.818	67.328	62.190	1.00	0.77

ATOM	2285	HD2	ILE	A	162	64.187	68.738	63.044	1.00	0.77
ATOM	2286	HD3	ILE	A	162	65.942	68.556	62.807	1.00	0.77
ATOM	2287	C	ILE	A	162	64.912	68.010	68.136	1.00	0.77
ATOM	2288	O	ILE	A	162	63.760	68.382	68.377	1.00	0.77
ATOM	2289	N	GLY	A	163	65.925	68.221	68.957	1.00	0.88
ATOM	2290	H	GLY	A	163	66.845	67.870	68.699	1.00	0.88
ATOM	2291	CA	GLY	A	163	65.843	68.978	70.185	1.00	0.88
ATOM	2292	HA1	GLY	A	163	65.777	68.291	71.028	1.00	0.88
ATOM	2293	HA2	GLY	A	163	64.962	69.613	70.185	1.00	0.88
ATOM	2294	C	GLY	A	163	67.075	69.839	70.366	1.00	0.88
ATOM	2295	O	GLY	A	163	68.096	69.612	69.718	1.00	0.88
ATOM	2296	N	GLU	A	164	66.952	70.826	71.252	1.00	1.02
ATOM	2297	H	GLU	A	164	66.085	70.874	71.769	1.00	1.02
ATOM	2298	CA	GLU	A	164	68.045	71.650	71.782	1.00	1.02
ATOM	2299	HA	GLU	A	164	67.614	72.599	72.109	1.00	1.02
ATOM	2300	CB	GLU	A	164	68.654	70.961	73.031	1.00	1.02
ATOM	2301	HB1	GLU	A	164	69.263	71.703	73.550	1.00	1.02
ATOM	2302	HB2	GLU	A	164	69.323	70.161	72.710	1.00	1.02
ATOM	2303	CG	GLU	A	164	67.669	70.372	74.055	1.00	1.02
ATOM	2304	HG1	GLU	A	164	66.871	71.094	74.243	1.00	1.02
ATOM	2305	HG2	GLU	A	164	68.205	70.216	74.994	1.00	1.02
ATOM	2306	CD	GLU	A	164	67.082	69.028	73.603	1.00	1.02
ATOM	2307	OE1	GLU	A	164	67.846	68.078	73.329	1.00	1.02
ATOM	2308	OE2	GLU	A	164	65.839	68.927	73.485	1.00	1.02
ATOM	2309	C	GLU	A	164	69.153	71.990	70.770	1.00	1.02
ATOM	2310	O	GLU	A	164	70.340	71.870	71.070	1.00	1.02
ATOM	2311	N	SER	A	165	68.780	72.306	69.531	1.00	0.93
ATOM	2312	H	SER	A	165	67.795	72.342	69.318	1.00	0.93
ATOM	2313	CA	SER	A	165	69.725	72.465	68.430	1.00	0.93
ATOM	2314	HA	SER	A	165	70.691	72.732	68.857	1.00	0.93
ATOM	2315	CB	SER	A	165	69.955	71.165	67.642	1.00	0.93
ATOM	2316	HB1	SER	A	165	70.565	70.500	68.253	1.00	0.93
ATOM	2317	HB2	SER	A	165	70.508	71.386	66.729	1.00	0.93
ATOM	2318	OG	SER	A	165	68.769	70.475	67.319	1.00	0.93
ATOM	2319	HG	SER	A	165	68.448	70.079	68.157	1.00	0.93
ATOM	2320	C	SER	A	165	69.351	73.638	67.546	1.00	0.93
ATOM	2321	O	SER	A	165	68.187	74.038	67.460	1.00	0.93
ATOM	2322	N	SER	A	166	70.370	74.194	66.908	1.00	0.82
ATOM	2323	H	SER	A	166	71.299	73.814	67.057	1.00	0.82
ATOM	2324	CA	SER	A	166	70.267	75.379	66.077	1.00	0.82
ATOM	2325	HA	SER	A	166	69.224	75.657	65.978	1.00	0.82
ATOM	2326	CB	SER	A	166	71.011	76.596	66.663	1.00	0.82
ATOM	2327	HB1	SER	A	166	70.423	77.495	66.485	1.00	0.82
ATOM	2328	HB2	SER	A	166	71.939	76.730	66.117	1.00	0.82

ATOM	2329	OG	SER A 166	71.324	76.506	68.041	1.00	0.82
ATOM	2330	HG	SER A 166	72.312	76.584	68.087	1.00	0.82
ATOM	2331	C	SER A 166	70.836	75.084	64.699	1.00	0.82
ATOM	2332	O	SER A 166	71.808	74.334	64.559	1.00	0.82
ATOM	2333	N	ASN A 167	70.275	75.724	63.676	1.00	0.41
ATOM	2334	H	ASN A 167	69.400	76.212	63.836	1.00	0.41
ATOM	2335	CA	ASN A 167	70.827	75.670	62.325	1.00	0.41
ATOM	2336	HA	ASN A 167	70.124	76.165	61.654	1.00	0.41
ATOM	2337	CB	ASN A 167	72.150	76.476	62.285	1.00	0.41
ATOM	2338	HB1	ASN A 167	72.509	76.522	61.259	1.00	0.41
ATOM	2339	HB2	ASN A 167	72.907	75.970	62.877	1.00	0.41
ATOM	2340	CG	ASN A 167	72.025	77.898	62.796	1.00	0.41
ATOM	2341	OD1	ASN A 167	71.277	78.702	62.257	1.00	0.41
ATOM	2342	ND2	ASN A 167	72.759	78.273	63.822	1.00	0.41
ATOM	2343	1HD2	ASN A 167	73.359	77.616	64.342	1.00	0.41
ATOM	2344	2HD2	ASN A 167	72.675	79.219	64.130	1.00	0.41
ATOM	2345	C	ASN A 167	70.983	74.220	61.823	1.00	0.41
ATOM	2346	O	ASN A 167	72.082	73.764	61.493	1.00	0.41
ATOM	2347	N	VAL A 168	69.881	73.465	61.813	1.00	0.41
ATOM	2348	H	VAL A 168	69.001	73.920	62.023	1.00	0.41
ATOM	2349	CA	VAL A 168	69.884	72.034	61.430	1.00	0.41
ATOM	2350	HA	VAL A 168	70.907	71.696	61.285	1.00	0.41
ATOM	2351	CB	VAL A 168	69.247	71.153	62.528	1.00	0.41
ATOM	2352	HB	VAL A 168	68.197	71.419	62.620	1.00	0.41
ATOM	2353	CG1	VAL A 168	69.323	69.655	62.188	1.00	0.41
ATOM	2354	1HG1	VAL A 168	68.866	69.077	62.992	1.00	0.41
ATOM	2355	2HG1	VAL A 168	68.770	69.442	61.274	1.00	0.41
ATOM	2356	3HG1	VAL A 168	70.363	69.350	62.071	1.00	0.41
ATOM	2357	CG2	VAL A 168	69.919	71.343	63.894	1.00	0.41
ATOM	2358	1HG2	VAL A 168	69.480	70.663	64.625	1.00	0.41
ATOM	2359	2HG2	VAL A 168	70.991	71.159	63.819	1.00	0.41
ATOM	2360	3HG2	VAL A 168	69.762	72.361	64.250	1.00	0.41
ATOM	2361	C	VAL A 168	69.127	71.867	60.115	1.00	0.41
ATOM	2362	O	VAL A 168	68.097	72.503	59.917	1.00	0.41
ATOM	2363	N	VAL A 169	69.635	71.074	59.166	1.00	0.42
ATOM	2364	H	VAL A 169	70.275	70.320	59.409	1.00	0.42
ATOM	2365	CA	VAL A 169	69.462	71.372	57.734	1.00	0.42
ATOM	2366	HA	VAL A 169	68.514	71.885	57.574	1.00	0.42
ATOM	2367	CB	VAL A 169	70.601	72.271	57.200	1.00	0.42
ATOM	2368	HB	VAL A 169	71.542	71.735	57.299	1.00	0.42
ATOM	2369	CG1	VAL A 169	70.383	72.628	55.723	1.00	0.42
ATOM	2370	1HG1	VAL A 169	71.200	73.258	55.371	1.00	0.42
ATOM	2371	2HG1	VAL A 169	70.360	71.728	55.111	1.00	0.42
ATOM	2372	3HG1	VAL A 169	69.443	73.168	55.605	1.00	0.42

ATOM	2373	CG2	VAL	A	169	70.745	73.590	57.971	1.00	0.42
ATOM	2374	1HG2	VAL	A	169	71.484	74.230	57.489	1.00	0.42
ATOM	2375	2HG2	VAL	A	169	69.791	74.114	58.013	1.00	0.42
ATOM	2376	3HG2	VAL	A	169	71.093	73.395	58.984	1.00	0.42
ATOM	2377	C	VAL	A	169	69.399	70.020	57.024	1.00	0.42
ATOM	2378	O	VAL	A	169	70.391	69.436	56.561	1.00	0.42
ATOM	2379	N	ILE	A	170	68.200	69.456	57.060	1.00	0.47
ATOM	2380	H	ILE	A	170	67.437	70.004	57.451	1.00	0.47
ATOM	2381	CA	ILE	A	170	67.870	68.152	56.512	1.00	0.47
ATOM	2382	HA	ILE	A	170	68.768	67.538	56.473	1.00	0.47
ATOM	2383	CB	ILE	A	170	66.831	67.445	57.420	1.00	0.47
ATOM	2384	HB	ILE	A	170	65.956	68.092	57.497	1.00	0.47
ATOM	2385	CG2	ILE	A	170	66.389	66.099	56.807	1.00	0.47
ATOM	2386	1HG2	ILE	A	170	65.784	65.531	57.512	1.00	0.47
ATOM	2387	2HG2	ILE	A	170	65.780	66.268	55.919	1.00	0.47
ATOM	2388	3HG2	ILE	A	170	67.250	65.496	56.535	1.00	0.47
ATOM	2389	CG1	ILE	A	170	67.386	67.207	58.845	1.00	0.47
ATOM	2390	1HG1	ILE	A	170	67.956	68.072	59.183	1.00	0.47
ATOM	2391	2HG1	ILE	A	170	68.053	66.349	58.839	1.00	0.47
ATOM	2392	CD1	ILE	A	170	66.295	66.961	59.890	1.00	0.47
ATOM	2393	HD1	ILE	A	170	65.621	67.817	59.925	1.00	0.47
ATOM	2394	HD2	ILE	A	170	65.727	66.061	59.660	1.00	0.47
ATOM	2395	HD3	ILE	A	170	66.766	66.834	60.865	1.00	0.47
ATOM	2396	C	ILE	A	170	67.343	68.310	55.085	1.00	0.47
ATOM	2397	O	ILE	A	170	66.748	69.319	54.712	1.00	0.47
ATOM	2398	N	THR	A	171	67.641	67.318	54.255	1.00	0.44
ATOM	2399	H	THR	A	171	67.917	66.410	54.624	1.00	0.44
ATOM	2400	CA	THR	A	171	67.864	67.515	52.824	1.00	0.44
ATOM	2401	HA	THR	A	171	67.070	68.118	52.397	1.00	0.44
ATOM	2402	CB	THR	A	171	69.215	68.212	52.545	1.00	0.44
ATOM	2403	HB	THR	A	171	69.656	67.778	51.650	1.00	0.44
ATOM	2404	CG2	THR	A	171	69.057	69.712	52.310	1.00	0.44
ATOM	2405	1HG2	THR	A	171	70.021	70.139	52.033	1.00	0.44
ATOM	2406	2HG2	THR	A	171	68.356	69.886	51.493	1.00	0.44
ATOM	2407	3HG2	THR	A	171	68.689	70.212	53.205	1.00	0.44
ATOM	2408	OG1	THR	A	171	70.113	68.098	53.631	1.00	0.44
ATOM	2409	HG1	THR	A	171	69.977	68.872	54.187	1.00	0.44
ATOM	2410	C	THR	A	171	67.844	66.099	52.208	1.00	0.44
ATOM	2411	O	THR	A	171	68.452	65.122	52.703	1.00	0.44
ATOM	2412	N	GLY	A	172	67.065	65.973	51.136	1.00	0.66
ATOM	2413	H	GLY	A	172	66.486	66.766	50.879	1.00	0.66
ATOM	2414	CA	GLY	A	172	66.924	64.740	50.365	1.00	0.66
ATOM	2415	HA1	GLY	A	172	67.910	64.332	50.141	1.00	0.66
ATOM	2416	HA2	GLY	A	172	66.434	64.967	49.418	1.00	0.66

ATOM	2417	C	GLY	A	172	66.095	63.655	51.084	1.00	0.66
ATOM	2418	O	GLY	A	172	64.928	63.482	50.759	1.00	0.66
ATOM	2419	N	ALA	A	173	66.645	62.960	52.087	1.00	0.87
ATOM	2420	H	ALA	A	173	67.643	63.019	52.192	1.00	0.87
ATOM	2421	CA	ALA	A	173	65.959	62.418	53.273	1.00	0.87
ATOM	2422	HA	ALA	A	173	66.681	62.498	54.086	1.00	0.87
ATOM	2423	CB	ALA	A	173	64.748	63.257	53.710	1.00	0.87
ATOM	2424	HB1	ALA	A	173	64.486	63.005	54.737	1.00	0.87
ATOM	2425	HB2	ALA	A	173	64.974	64.322	53.651	1.00	0.87
ATOM	2426	HB3	ALA	A	173	63.897	63.009	53.080	1.00	0.87
ATOM	2427	C	ALA	A	173	65.597	60.907	53.215	1.00	0.87
ATOM	2428	O	ALA	A	173	65.959	60.123	54.110	1.00	0.87
ATOM	2429	N	LYS	A	174	64.889	60.536	52.138	1.00	0.42
ATOM	2430	H	LYS	A	174	64.764	61.265	51.443	1.00	0.42
ATOM	2431	CA	LYS	A	174	63.986	59.355	52.025	1.00	0.42
ATOM	2432	HA	LYS	A	174	63.394	59.560	51.142	1.00	0.42
ATOM	2433	CB	LYS	A	174	64.695	58.033	51.656	1.00	0.42
ATOM	2434	HB1	LYS	A	174	63.953	57.390	51.180	1.00	0.42
ATOM	2435	HB2	LYS	A	174	65.007	57.533	52.571	1.00	0.42
ATOM	2436	CG	LYS	A	174	65.928	58.068	50.746	1.00	0.42
ATOM	2437	HG1	LYS	A	174	66.152	57.040	50.464	1.00	0.42
ATOM	2438	HG2	LYS	A	174	66.744	58.417	51.358	1.00	0.42
ATOM	2439	CD	LYS	A	174	65.908	58.909	49.460	1.00	0.42
ATOM	2440	HD1	LYS	A	174	65.760	59.964	49.689	1.00	0.42
ATOM	2441	HD2	LYS	A	174	65.091	58.568	48.823	1.00	0.42
ATOM	2442	CE	LYS	A	174	67.249	58.721	48.724	1.00	0.42
ATOM	2443	HE1	LYS	A	174	67.201	59.206	47.745	1.00	0.42
ATOM	2444	HE2	LYS	A	174	67.403	57.650	48.565	1.00	0.42
ATOM	2445	NZ	LYS	A	174	68.397	59.272	49.486	1.00	0.42
ATOM	2446	HZ1	LYS	A	174	68.508	60.279	49.345	1.00	0.42
ATOM	2447	HZ2	LYS	A	174	68.340	59.072	50.481	1.00	0.42
ATOM	2448	HZ3	LYS	A	174	69.297	58.930	49.158	1.00	0.42
ATOM	2449	C	LYS	A	174	62.898	59.210	53.120	1.00	0.42
ATOM	2450	O	LYS	A	174	62.111	60.155	53.281	1.00	0.42
ATOM	2451	N	VAL	A	175	62.824	58.041	53.799	1.00	0.43
ATOM	2452	H	VAL	A	175	63.460	57.316	53.498	1.00	0.43
ATOM	2453	CA	VAL	A	175	62.287	57.792	55.156	1.00	0.43
ATOM	2454	HA	VAL	A	175	63.218	57.721	55.715	1.00	0.43
ATOM	2455	CB	VAL	A	175	61.594	58.965	55.891	1.00	0.43
ATOM	2456	HB	VAL	A	175	60.898	59.460	55.227	1.00	0.43
ATOM	2457	CG1	VAL	A	175	60.791	58.523	57.119	1.00	0.43
ATOM	2458	1HG1	VAL	A	175	60.406	59.388	57.651	1.00	0.43
ATOM	2459	2HG1	VAL	A	175	59.938	57.919	56.810	1.00	0.43
ATOM	2460	3HG1	VAL	A	175	61.416	57.945	57.800	1.00	0.43

ATOM	2461	CG2	VAL	A	175	62.646	59.970	56.399	1.00	0.43
ATOM	2462	1HG2	VAL	A	175	62.158	60.812	56.885	1.00	0.43
ATOM	2463	2HG2	VAL	A	175	63.305	59.489	57.123	1.00	0.43
ATOM	2464	3HG2	VAL	A	175	63.252	60.346	55.578	1.00	0.43
ATOM	2465	C	VAL	A	175	61.725	56.396	55.488	1.00	0.43
ATOM	2466	O	VAL	A	175	62.322	55.692	56.309	1.00	0.43
ATOM	2467	N	TYR	A	176	60.606	55.993	54.884	1.00	0.50
ATOM	2468	H	TYR	A	176	60.169	56.626	54.223	1.00	0.50
ATOM	2469	CA	TYR	A	176	59.941	54.699	55.144	1.00	0.50
ATOM	2470	HA	TYR	A	176	58.894	54.840	54.884	1.00	0.50
ATOM	2471	CB	TYR	A	176	60.463	53.626	54.171	1.00	0.50
ATOM	2472	HB1	TYR	A	176	59.733	52.817	54.118	1.00	0.50
ATOM	2473	HB2	TYR	A	176	61.373	53.200	54.579	1.00	0.50
ATOM	2474	CG	TYR	A	176	60.761	54.119	52.762	1.00	0.50
ATOM	2475	CD1	TYR	A	176	59.719	54.310	51.833	1.00	0.50
ATOM	2476	HD1	TYR	A	176	58.703	54.067	52.109	1.00	0.50
ATOM	2477	CE1	TYR	A	176	60.004	54.808	50.545	1.00	0.50
ATOM	2478	HE1	TYR	A	176	59.213	54.967	49.827	1.00	0.50
ATOM	2479	CZ	TYR	A	176	61.339	55.076	50.174	1.00	0.50
ATOM	2480	OH	TYR	A	176	61.626	55.510	48.920	1.00	0.50
ATOM	2481	HH	TYR	A	176	62.571	55.542	48.774	1.00	0.50
ATOM	2482	CE2	TYR	A	176	62.384	54.872	51.098	1.00	0.50
ATOM	2483	HE2	TYR	A	176	63.411	55.047	50.818	1.00	0.50
ATOM	2484	CD2	TYR	A	176	62.089	54.406	52.392	1.00	0.50
ATOM	2485	HD2	TYR	A	176	62.890	54.250	53.099	1.00	0.50
ATOM	2486	C	TYR	A	176	59.946	54.227	56.610	1.00	0.50
ATOM	2487	O	TYR	A	176	60.825	53.487	57.047	1.00	0.50
ATOM	2488	N	ASN	A	177	58.991	54.668	57.418	1.00	0.75
ATOM	2489	H	ASN	A	177	58.249	55.250	57.048	1.00	0.75
ATOM	2490	CA	ASN	A	177	58.957	54.306	58.837	1.00	0.75
ATOM	2491	HA	ASN	A	177	59.349	53.299	58.965	1.00	0.75
ATOM	2492	CB	ASN	A	177	59.867	55.289	59.605	1.00	0.75
ATOM	2493	HB1	ASN	A	177	60.806	55.439	59.075	1.00	0.75
ATOM	2494	HB2	ASN	A	177	60.108	54.836	60.563	1.00	0.75
ATOM	2495	CG	ASN	A	177	59.233	56.649	59.850	1.00	0.75
ATOM	2496	OD1	ASN	A	177	58.569	57.230	59.006	1.00	0.75
ATOM	2497	ND2	ASN	A	177	59.378	57.173	61.039	1.00	0.75
ATOM	2498	1HD2	ASN	A	177	60.008	56.754	61.714	1.00	0.75
ATOM	2499	2HD2	ASN	A	177	58.829	58.004	61.234	1.00	0.75
ATOM	2500	C	ASN	A	177	57.526	54.264	59.370	1.00	0.75
ATOM	2501	O	ASN	A	177	56.577	54.415	58.609	1.00	0.75
ATOM	2502	N	GLN	A	178	57.377	54.079	60.682	1.00	0.85
ATOM	2503	H	GLN	A	178	58.206	53.955	61.248	1.00	0.85
ATOM	2504	CA	GLN	A	178	56.096	53.805	61.332	1.00	0.85

ATOM	2505	HA	GLN	A	178	55.300	53.823	60.584	1.00	0.85
ATOM	2506	CB	GLN	A	178	56.116	52.392	61.950	1.00	0.85
ATOM	2507	HB1	GLN	A	178	55.157	52.225	62.444	1.00	0.85
ATOM	2508	HB2	GLN	A	178	56.890	52.321	62.714	1.00	0.85
ATOM	2509	CG	GLN	A	178	56.294	51.268	60.914	1.00	0.85
ATOM	2510	HG1	GLN	A	178	55.589	51.442	60.105	1.00	0.85
ATOM	2511	HG2	GLN	A	178	56.030	50.315	61.371	1.00	0.85
ATOM	2512	CD	GLN	A	178	57.702	51.129	60.337	1.00	0.85
ATOM	2513	OE1	GLN	A	178	58.713	51.178	61.034	1.00	0.85
ATOM	2514	NE2	GLN	A	178	57.848	50.974	59.047	1.00	0.85
ATOM	2515	1HE2	GLN	A	178	57.047	50.975	58.401	1.00	0.85
ATOM	2516	2HE2	GLN	A	178	58.744	50.691	58.686	1.00	0.85
ATOM	2517	C	GLN	A	178	55.723	54.874	62.368	1.00	0.85
ATOM	2518	O	GLN	A	178	54.675	54.794	63.003	1.00	0.85
ATOM	2519	N	ASP	A	179	56.543	55.919	62.504	1.00	0.87
ATOM	2520	H	ASP	A	179	57.315	55.992	61.860	1.00	0.87
ATOM	2521	CA	ASP	A	179	56.287	57.081	63.356	1.00	0.87
ATOM	2522	HA	ASP	A	179	55.213	57.157	63.485	1.00	0.87
ATOM	2523	CB	ASP	A	179	56.875	56.855	64.764	1.00	0.87
ATOM	2524	HB1	ASP	A	179	57.875	57.284	64.820	1.00	0.87
ATOM	2525	HB2	ASP	A	179	56.962	55.780	64.938	1.00	0.87
ATOM	2526	CG	ASP	A	179	55.974	57.442	65.864	1.00	0.87
ATOM	2527	OD1	ASP	A	179	55.350	58.494	65.593	1.00	0.87
ATOM	2528	OD2	ASP	A	179	55.865	56.793	66.935	1.00	0.87
ATOM	2529	C	ASP	A	179	56.716	58.390	62.685	1.00	0.87
ATOM	2530	O	ASP	A	179	56.873	58.408	61.467	1.00	0.87
ATOM	2531	N	ASP	A	180	56.831	59.515	63.388	1.00	0.96
ATOM	2532	H	ASP	A	180	56.631	59.492	64.391	1.00	0.96
ATOM	2533	CA	ASP	A	180	57.188	60.786	62.754	1.00	0.96
ATOM	2534	HA	ASP	A	180	56.361	61.037	62.090	1.00	0.96
ATOM	2535	CB	ASP	A	180	57.283	61.928	63.784	1.00	0.96
ATOM	2536	HB1	ASP	A	180	58.011	62.653	63.424	1.00	0.96
ATOM	2537	HB2	ASP	A	180	57.655	61.536	64.731	1.00	0.96
ATOM	2538	CG	ASP	A	180	55.963	62.684	64.013	1.00	0.96
ATOM	2539	OD1	ASP	A	180	55.217	62.981	63.050	1.00	0.96
ATOM	2540	OD2	ASP	A	180	55.654	63.059	65.169	1.00	0.96
ATOM	2541	C	ASP	A	180	58.432	60.719	61.851	1.00	0.96
ATOM	2542	O	ASP	A	180	59.494	60.196	62.192	1.00	0.96
ATOM	2543	N	CYS	A	181	58.262	61.255	60.641	1.00	0.82
ATOM	2544	H	CYS	A	181	57.387	61.733	60.462	1.00	0.82
ATOM	2545	CA	CYS	A	181	59.334	61.461	59.675	1.00	0.82
ATOM	2546	HA	CYS	A	181	59.826	60.509	59.480	1.00	0.82
ATOM	2547	CB	CYS	A	181	58.650	61.967	58.386	1.00	0.82
ATOM	2548	HB1	CYS	A	181	58.214	62.939	58.595	1.00	0.82

ATOM	2549	HB2	CYS	A	181	57.835	61.280	58.157	1.00	0.82
ATOM	2550	SG	CYS	A	181	59.600	62.164	56.860	1.00	0.82
ATOM	2551	C	CYS	A	181	60.366	62.439	60.260	1.00	0.82
ATOM	2552	O	CYS	A	181	61.582	62.201	60.262	1.00	0.82
ATOM	2553	N	VAL	A	182	59.822	63.511	60.846	1.00	0.74
ATOM	2554	H	VAL	A	182	58.812	63.555	60.860	1.00	0.74
ATOM	2555	CA	VAL	A	182	60.524	64.546	61.595	1.00	0.74
ATOM	2556	HA	VAL	A	182	61.484	64.157	61.935	1.00	0.74
ATOM	2557	CB	VAL	A	182	60.763	65.798	60.729	1.00	0.74
ATOM	2558	HB	VAL	A	182	59.798	66.217	60.437	1.00	0.74
ATOM	2559	CG1	VAL	A	182	61.561	66.875	61.483	1.00	0.74
ATOM	2560	1HG1	VAL	A	182	61.800	67.710	60.824	1.00	0.74
ATOM	2561	2HG1	VAL	A	182	60.979	67.261	62.319	1.00	0.74
ATOM	2562	3HG1	VAL	A	182	62.488	66.445	61.864	1.00	0.74
ATOM	2563	CG2	VAL	A	182	61.548	65.488	59.456	1.00	0.74
ATOM	2564	1HG2	VAL	A	182	61.633	66.403	58.877	1.00	0.74
ATOM	2565	2HG2	VAL	A	182	62.538	65.111	59.707	1.00	0.74
ATOM	2566	3HG2	VAL	A	182	61.028	64.755	58.842	1.00	0.74
ATOM	2567	C	VAL	A	182	59.691	64.947	62.806	1.00	0.74
ATOM	2568	O	VAL	A	182	58.480	65.128	62.682	1.00	0.74
ATOM	2569	N	ALA	A	183	60.347	65.157	63.944	1.00	0.79
ATOM	2570	H	ALA	A	183	61.327	64.890	63.979	1.00	0.79
ATOM	2571	CA	ALA	A	183	59.717	65.542	65.193	1.00	0.79
ATOM	2572	HA	ALA	A	183	58.732	65.964	64.997	1.00	0.79
ATOM	2573	CB	ALA	A	183	59.506	64.283	66.047	1.00	0.79
ATOM	2574	HB1	ALA	A	183	59.116	64.561	67.027	1.00	0.79
ATOM	2575	HB2	ALA	A	183	58.794	63.618	65.562	1.00	0.79
ATOM	2576	HB3	ALA	A	183	60.450	63.752	66.181	1.00	0.79
ATOM	2577	C	ALA	A	183	60.548	66.604	65.931	1.00	0.79
ATOM	2578	O	ALA	A	183	61.480	66.314	66.682	1.00	0.79
ATOM	2579	N	VAL	A	184	60.227	67.873	65.677	1.00	0.70
ATOM	2580	H	VAL	A	184	59.487	68.061	65.007	1.00	0.70
ATOM	2581	CA	VAL	A	184	60.946	68.994	66.303	1.00	0.70
ATOM	2582	HA	VAL	A	184	61.985	68.701	66.448	1.00	0.70
ATOM	2583	CB	VAL	A	184	60.953	70.253	65.407	1.00	0.70
ATOM	2584	HB	VAL	A	184	59.957	70.695	65.383	1.00	0.70
ATOM	2585	CG1	VAL	A	184	61.946	71.294	65.942	1.00	0.70
ATOM	2586	1HG1	VAL	A	184	61.949	72.171	65.296	1.00	0.70
ATOM	2587	2HG1	VAL	A	184	61.652	71.618	66.941	1.00	0.70
ATOM	2588	3HG1	VAL	A	184	62.952	70.874	65.987	1.00	0.70
ATOM	2589	CG2	VAL	A	184	61.339	69.921	63.961	1.00	0.70
ATOM	2590	1HG2	VAL	A	184	61.483	70.837	63.389	1.00	0.70
ATOM	2591	2HG2	VAL	A	184	62.258	69.339	63.954	1.00	0.70
ATOM	2592	3HG2	VAL	A	184	60.545	69.345	63.490	1.00	0.70

ATOM	2593	C	VAL	A	184	60.353	69.309	67.675	1.00	0.70
ATOM	2594	O	VAL	A	184	59.433	70.116	67.802	1.00	0.70
ATOM	2595	N	ASN	A	185	60.870	68.642	68.706	1.00	0.83
ATOM	2596	H	ASN	A	185	61.600	67.966	68.503	1.00	0.83
ATOM	2597	CA	ASN	A	185	60.627	68.977	70.111	1.00	0.83
ATOM	2598	HA	ASN	A	185	59.609	68.687	70.370	1.00	0.83
ATOM	2599	CB	ASN	A	185	61.603	68.208	71.011	1.00	0.83
ATOM	2600	HB1	ASN	A	185	61.349	68.424	72.047	1.00	0.83
ATOM	2601	HB2	ASN	A	185	62.617	68.568	70.844	1.00	0.83
ATOM	2602	CG	ASN	A	185	61.594	66.704	70.816	1.00	0.83
ATOM	2603	OD1	ASN	A	185	60.867	65.986	71.483	1.00	0.83
ATOM	2604	ND2	ASN	A	185	62.483	66.226	69.982	1.00	0.83
ATOM	2605	1HD2	ASN	A	185	63.099	66.850	69.481	1.00	0.83
ATOM	2606	2HD2	ASN	A	185	62.636	65.213	69.895	1.00	0.83
ATOM	2607	C	ASN	A	185	60.763	70.477	70.376	1.00	0.83
ATOM	2608	O	ASN	A	185	59.916	71.065	71.046	1.00	0.83
ATOM	2609	N	SER	A	186	61.851	71.029	69.836	1.00	0.83
ATOM	2610	H	SER	A	186	62.402	70.429	69.232	1.00	0.83
ATOM	2611	CA	SER	A	186	62.600	72.167	70.354	1.00	0.83
ATOM	2612	HA	SER	A	186	61.968	73.038	70.539	1.00	0.83
ATOM	2613	CB	SER	A	186	63.276	71.673	71.636	1.00	0.83
ATOM	2614	HB1	SER	A	186	64.204	72.219	71.788	1.00	0.83
ATOM	2615	HB2	SER	A	186	63.531	70.617	71.554	1.00	0.83
ATOM	2616	OG	SER	A	186	62.416	71.863	72.733	1.00	0.83
ATOM	2617	HG	SER	A	186	62.625	72.792	72.993	1.00	0.83
ATOM	2618	C	SER	A	186	63.714	72.490	69.367	1.00	0.83
ATOM	2619	O	SER	A	186	64.306	71.562	68.801	1.00	0.83
ATOM	2620	N	GLY	A	187	64.034	73.765	69.178	1.00	0.88
ATOM	2621	H	GLY	A	187	63.561	74.494	69.711	1.00	0.88
ATOM	2622	CA	GLY	A	187	65.143	74.145	68.306	1.00	0.88
ATOM	2623	HA1	GLY	A	187	65.415	73.334	67.632	1.00	0.88
ATOM	2624	HA2	GLY	A	187	66.009	74.362	68.933	1.00	0.88
ATOM	2625	C	GLY	A	187	64.858	75.367	67.457	1.00	0.88
ATOM	2626	O	GLY	A	187	63.711	75.769	67.269	1.00	0.88
ATOM	2627	N	THR	A	188	65.932	75.912	66.899	1.00	0.83
ATOM	2628	H	THR	A	188	66.823	75.440	67.022	1.00	0.83
ATOM	2629	CA	THR	A	188	65.919	77.149	66.121	1.00	0.83
ATOM	2630	HA	THR	A	188	64.915	77.465	65.971	1.00	0.83
ATOM	2631	CB	THR	A	188	66.695	78.276	66.835	1.00	0.83
ATOM	2632	HB	THR	A	188	66.709	79.161	66.199	1.00	0.83
ATOM	2633	CG2	THR	A	188	66.152	78.675	68.206	1.00	0.83
ATOM	2634	1HG2	THR	A	188	66.829	79.392	68.671	1.00	0.83
ATOM	2635	2HG2	THR	A	188	65.183	79.154	68.094	1.00	0.83
ATOM	2636	3HG2	THR	A	188	66.048	77.805	68.854	1.00	0.83

ATOM	2637	OG1	THR	A	188	68.025	77.886	67.054	1.00	0.83
ATOM	2638	HG1	THR	A	188	68.030	77.273	67.794	1.00	0.83
ATOM	2639	C	THR	A	188	66.525	76.930	64.742	1.00	0.83
ATOM	2640	O	THR	A	188	67.422	76.101	64.567	1.00	0.83
ATOM	2641	N	SER	A	189	66.079	77.700	63.749	1.00	0.42
ATOM	2642	H	SER	A	189	65.396	78.422	63.978	1.00	0.42
ATOM	2643	CA	SER	A	189	66.630	77.651	62.391	1.00	0.42
ATOM	2644	HA	SER	A	189	65.982	78.225	61.731	1.00	0.42
ATOM	2645	CB	SER	A	189	68.003	78.364	62.447	1.00	0.42
ATOM	2646	HB1	SER	A	189	68.645	77.838	63.152	1.00	0.42
ATOM	2647	HB2	SER	A	189	67.850	79.370	62.840	1.00	0.42
ATOM	2648	OG	SER	A	189	68.709	78.476	61.225	1.00	0.42
ATOM	2649	HG	SER	A	189	69.628	78.714	61.456	1.00	0.42
ATOM	2650	C	SER	A	189	66.689	76.215	61.845	1.00	0.42
ATOM	2651	O	SER	A	189	67.747	75.664	61.505	1.00	0.42
ATOM	2652	N	ILE	A	190	65.525	75.553	61.847	1.00	0.36
ATOM	2653	H	ILE	A	190	64.685	76.017	62.174	1.00	0.36
ATOM	2654	CA	ILE	A	190	65.474	74.158	61.365	1.00	0.36
ATOM	2655	HA	ILE	A	190	66.474	73.733	61.316	1.00	0.36
ATOM	2656	CB	ILE	A	190	64.647	73.284	62.338	1.00	0.36
ATOM	2657	HB	ILE	A	190	63.605	73.578	62.239	1.00	0.36
ATOM	2658	CG2	ILE	A	190	64.748	71.797	61.947	1.00	0.36
ATOM	2659	1HG2	ILE	A	190	64.231	71.184	62.684	1.00	0.36
ATOM	2660	2HG2	ILE	A	190	64.278	71.632	60.977	1.00	0.36
ATOM	2661	3HG2	ILE	A	190	65.792	71.488	61.889	1.00	0.36
ATOM	2662	CG1	ILE	A	190	65.010	73.461	63.835	1.00	0.36
ATOM	2663	1HG1	ILE	A	190	64.327	72.857	64.433	1.00	0.36
ATOM	2664	2HG1	ILE	A	190	64.840	74.498	64.126	1.00	0.36
ATOM	2665	CD1	ILE	A	190	66.444	73.079	64.222	1.00	0.36
ATOM	2666	HD1	ILE	A	190	66.616	73.341	65.266	1.00	0.36
ATOM	2667	HD2	ILE	A	190	66.589	72.008	64.110	1.00	0.36
ATOM	2668	HD3	ILE	A	190	67.165	73.611	63.602	1.00	0.36
ATOM	2669	C	ILE	A	190	64.881	74.170	59.957	1.00	0.36
ATOM	2670	O	ILE	A	190	63.873	74.814	59.690	1.00	0.36
ATOM	2671	N	THR	A	191	65.470	73.419	59.045	1.00	0.42
ATOM	2672	H	THR	A	191	66.304	72.907	59.320	1.00	0.42
ATOM	2673	CA	THR	A	191	65.013	73.253	57.666	1.00	0.42
ATOM	2674	HA	THR	A	191	64.008	73.659	57.568	1.00	0.42
ATOM	2675	CB	THR	A	191	65.914	73.989	56.656	1.00	0.42
ATOM	2676	HB	THR	A	191	65.819	73.519	55.676	1.00	0.42
ATOM	2677	CG2	THR	A	191	65.542	75.460	56.517	1.00	0.42
ATOM	2678	1HG2	THR	A	191	66.274	75.965	55.886	1.00	0.42
ATOM	2679	2HG2	THR	A	191	64.568	75.537	56.042	1.00	0.42
ATOM	2680	3HG2	THR	A	191	65.516	75.941	57.496	1.00	0.42

ATOM	2681	OG1	THR	A	191	67.265	73.974	57.043	1.00	0.42
ATOM	2682	HG1	THR	A	191	67.315	74.390	57.911	1.00	0.42
ATOM	2683	C	THR	A	191	64.931	71.767	57.345	1.00	0.42
ATOM	2684	O	THR	A	191	65.743	70.957	57.799	1.00	0.42
ATOM	2685	N	PHE	A	192	63.919	71.405	56.567	1.00	0.55
ATOM	2686	H	PHE	A	192	63.253	72.118	56.275	1.00	0.55
ATOM	2687	CA	PHE	A	192	63.731	70.078	56.019	1.00	0.55
ATOM	2688	HA	PHE	A	192	64.677	69.541	56.000	1.00	0.55
ATOM	2689	CB	PHE	A	192	62.732	69.276	56.868	1.00	0.55
ATOM	2690	HB1	PHE	A	192	61.804	69.841	56.946	1.00	0.55
ATOM	2691	HB2	PHE	A	192	63.136	69.175	57.877	1.00	0.55
ATOM	2692	CG	PHE	A	192	62.418	67.891	56.318	1.00	0.55
ATOM	2693	CD1	PHE	A	192	63.108	66.767	56.807	1.00	0.55
ATOM	2694	HD1	PHE	A	192	63.838	66.886	57.594	1.00	0.55
ATOM	2695	CE1	PHE	A	192	62.813	65.480	56.320	1.00	0.55
ATOM	2696	HE1	PHE	A	192	63.326	64.618	56.725	1.00	0.55
ATOM	2697	CZ	PHE	A	192	61.833	65.310	55.328	1.00	0.55
ATOM	2698	HZ	PHE	A	192	61.589	64.319	54.970	1.00	0.55
ATOM	2699	CE2	PHE	A	192	61.149	66.429	54.823	1.00	0.55
ATOM	2700	HE2	PHE	A	192	60.390	66.303	54.063	1.00	0.55
ATOM	2701	CD2	PHE	A	192	61.432	67.715	55.324	1.00	0.55
ATOM	2702	HD2	PHE	A	192	60.882	68.564	54.943	1.00	0.55
ATOM	2703	C	PHE	A	192	63.231	70.253	54.593	1.00	0.55
ATOM	2704	O	PHE	A	192	62.146	70.798	54.386	1.00	0.55
ATOM	2705	N	SER	A	193	64.022	69.831	53.610	1.00	0.50
ATOM	2706	H	SER	A	193	64.924	69.430	53.845	1.00	0.50
ATOM	2707	CA	SER	A	193	63.724	70.072	52.201	1.00	0.50
ATOM	2708	HA	SER	A	193	62.678	70.312	52.113	1.00	0.50
ATOM	2709	CB	SER	A	193	64.505	71.302	51.711	1.00	0.50
ATOM	2710	HB1	SER	A	193	65.537	71.215	52.054	1.00	0.50
ATOM	2711	HB2	SER	A	193	64.072	72.199	52.155	1.00	0.50
ATOM	2712	OG	SER	A	193	64.530	71.436	50.299	1.00	0.50
ATOM	2713	HG	SER	A	193	63.636	71.577	49.924	1.00	0.50
ATOM	2714	C	SER	A	193	63.999	68.859	51.316	1.00	0.50
ATOM	2715	O	SER	A	193	64.902	68.046	51.557	1.00	0.50
ATOM	2716	N	GLY	A	194	63.195	68.735	50.263	1.00	0.45
ATOM	2717	H	GLY	A	194	62.444	69.406	50.143	1.00	0.45
ATOM	2718	CA	GLY	A	194	63.336	67.633	49.309	1.00	0.45
ATOM	2719	HA1	GLY	A	194	64.374	67.309	49.229	1.00	0.45
ATOM	2720	HA2	GLY	A	194	62.991	67.948	48.324	1.00	0.45
ATOM	2721	C	GLY	A	194	62.469	66.477	49.788	1.00	0.45
ATOM	2722	O	GLY	A	194	61.332	66.350	49.345	1.00	0.45
ATOM	2723	N	GLY	A	195	62.954	65.746	50.793	1.00	0.76
ATOM	2724	H	GLY	A	195	63.919	65.860	51.054	1.00	0.76

ATOM	2725	CA	GLY	A	195	62.130	64.849	51.596	1.00	0.76
ATOM	2726	HA1	GLY	A	195	61.242	65.398	51.909	1.00	0.76
ATOM	2727	HA2	GLY	A	195	62.664	64.572	52.497	1.00	0.76
ATOM	2728	C	GLY	A	195	61.648	63.591	50.877	1.00	0.76
ATOM	2729	O	GLY	A	195	62.056	63.312	49.761	1.00	0.76
ATOM	2730	N	THR	A	196	60.770	62.820	51.523	1.00	0.64
ATOM	2731	H	THR	A	196	60.423	63.194	52.391	1.00	0.64
ATOM	2732	CA	THR	A	196	59.902	61.805	50.882	1.00	0.64
ATOM	2733	HA	THR	A	196	59.472	62.264	49.998	1.00	0.64
ATOM	2734	CB	THR	A	196	60.599	60.492	50.446	1.00	0.64
ATOM	2735	HB	THR	A	196	60.750	59.853	51.312	1.00	0.64
ATOM	2736	CG2	THR	A	196	59.743	59.716	49.448	1.00	0.64
ATOM	2737	1HG2	THR	A	196	58.774	59.477	49.885	1.00	0.64
ATOM	2738	2HG2	THR	A	196	59.589	60.310	48.546	1.00	0.64
ATOM	2739	3HG2	THR	A	196	60.244	58.784	49.183	1.00	0.64
ATOM	2740	OG1	THR	A	196	61.846	60.678	49.816	1.00	0.64
ATOM	2741	HG1	THR	A	196	61.909	61.633	49.607	1.00	0.64
ATOM	2742	C	THR	A	196	58.749	61.425	51.845	1.00	0.64
ATOM	2743	O	THR	A	196	57.544	61.459	51.554	1.00	0.64
ATOM	2744	N	CYS	A	197	59.172	61.084	53.061	1.00	0.46
ATOM	2745	H	CYS	A	197	60.174	61.036	53.199	1.00	0.46
ATOM	2746	CA	CYS	A	197	58.342	60.493	54.103	1.00	0.46
ATOM	2747	HA	CYS	A	197	59.054	60.377	54.913	1.00	0.46
ATOM	2748	CB	CYS	A	197	57.366	61.472	54.754	1.00	0.46
ATOM	2749	HB1	CYS	A	197	56.792	60.959	55.525	1.00	0.46
ATOM	2750	HB2	CYS	A	197	56.693	61.851	53.990	1.00	0.46
ATOM	2751	SG	CYS	A	197	58.218	62.895	55.521	1.00	0.46
ATOM	2752	C	CYS	A	197	58.023	59.006	53.888	1.00	0.46
ATOM	2753	O	CYS	A	197	58.959	58.232	53.666	1.00	0.46
ATOM	2754	N	SER	A	198	56.761	58.595	53.991	1.00	0.62
ATOM	2755	H	SER	A	198	56.071	59.282	54.245	1.00	0.62
ATOM	2756	CA	SER	A	198	56.239	57.251	53.677	1.00	0.62
ATOM	2757	HA	SER	A	198	55.294	57.393	53.174	1.00	0.62
ATOM	2758	CB	SER	A	198	57.053	56.402	52.692	1.00	0.62
ATOM	2759	HB1	SER	A	198	56.458	55.536	52.396	1.00	0.62
ATOM	2760	HB2	SER	A	198	57.963	56.041	53.169	1.00	0.62
ATOM	2761	OG	SER	A	198	57.388	57.144	51.542	1.00	0.62
ATOM	2762	HG	SER	A	198	58.110	57.721	51.818	1.00	0.62
ATOM	2763	C	SER	A	198	56.002	56.402	54.924	1.00	0.62
ATOM	2764	O	SER	A	198	56.938	56.107	55.677	1.00	0.62
ATOM	2765	N	GLY	A	199	54.743	56.003	55.124	1.00	0.84
ATOM	2766	H	GLY	A	199	53.994	56.328	54.523	1.00	0.84
ATOM	2767	CA	GLY	A	199	54.390	55.041	56.179	1.00	0.84
ATOM	2768	HA1	GLY	A	199	55.222	54.355	56.343	1.00	0.84

ATOM	2769	HA2	GLY	A	199	53.544	54.427	55.872	1.00	0.84
ATOM	2770	C	GLY	A	199	54.062	55.687	57.525	1.00	0.84
ATOM	2771	O	GLY	A	199	53.100	55.328	58.201	1.00	0.84
ATOM	2772	N	GLY	A	200	54.877	56.674	57.894	1.00	0.95
ATOM	2773	H	GLY	A	200	55.682	56.816	57.305	1.00	0.95
ATOM	2774	CA	GLY	A	200	54.933	57.221	59.239	1.00	0.95
ATOM	2775	HA1	GLY	A	200	55.894	57.721	59.341	1.00	0.95
ATOM	2776	HA2	GLY	A	200	54.922	56.400	59.957	1.00	0.95
ATOM	2777	C	GLY	A	200	53.843	58.196	59.632	1.00	0.95
ATOM	2778	O	GLY	A	200	52.789	58.308	59.014	1.00	0.95
ATOM	2779	N	HIS	A	201	54.089	58.932	60.710	1.00	0.77
ATOM	2780	H	HIS	A	201	54.976	58.807	61.191	1.00	0.77
ATOM	2781	CA	HIS	A	201	53.119	59.915	61.166	1.00	0.77
ATOM	2782	HA	HIS	A	201	52.132	59.477	61.055	1.00	0.77
ATOM	2783	CB	HIS	A	201	53.287	60.266	62.646	1.00	0.77
ATOM	2784	HB1	HIS	A	201	52.748	61.192	62.830	1.00	0.77
ATOM	2785	HB2	HIS	A	201	54.334	60.447	62.864	1.00	0.77
ATOM	2786	CG	HIS	A	201	52.764	59.231	63.609	1.00	0.77
ATOM	2787	ND1	HIS	A	201	52.324	59.500	64.910	1.00	0.77
ATOM	2788	CE1	HIS	A	201	52.222	58.293	65.500	1.00	0.77
ATOM	2789	HE1	HIS	A	201	52.022	58.137	66.552	1.00	0.77
ATOM	2790	NE2	HIS	A	201	52.480	57.307	64.623	1.00	0.77
ATOM	2791	HE2	HIS	A	201	52.618	56.328	64.850	1.00	0.77
ATOM	2792	CD2	HIS	A	201	52.804	57.881	63.420	1.00	0.77
ATOM	2793	HD2	HIS	A	201	53.159	57.355	62.544	1.00	0.77
ATOM	2794	C	HIS	A	201	53.108	61.162	60.305	1.00	0.77
ATOM	2795	O	HIS	A	201	52.032	61.715	60.179	1.00	0.77
ATOM	2796	N	GLY	A	202	54.216	61.627	59.734	1.00	0.85
ATOM	2797	H	GLY	A	202	55.087	61.140	59.888	1.00	0.85
ATOM	2798	CA	GLY	A	202	54.219	62.899	59.004	1.00	0.85
ATOM	2799	HA1	GLY	A	202	53.288	63.445	59.161	1.00	0.85
ATOM	2800	HA2	GLY	A	202	54.289	62.694	57.935	1.00	0.85
ATOM	2801	C	GLY	A	202	55.364	63.827	59.380	1.00	0.85
ATOM	2802	O	GLY	A	202	56.356	63.406	59.972	1.00	0.85
ATOM	2803	N	LEU	A	203	55.225	65.099	59.029	1.00	0.77
ATOM	2804	H	LEU	A	203	54.362	65.386	58.576	1.00	0.77
ATOM	2805	CA	LEU	A	203	56.178	66.136	59.414	1.00	0.77
ATOM	2806	HA	LEU	A	203	57.121	65.700	59.743	1.00	0.77
ATOM	2807	CB	LEU	A	203	56.439	67.034	58.191	1.00	0.77
ATOM	2808	HB1	LEU	A	203	57.034	67.891	58.503	1.00	0.77
ATOM	2809	HB2	LEU	A	203	55.482	67.409	57.822	1.00	0.77
ATOM	2810	CG	LEU	A	203	57.165	66.321	57.035	1.00	0.77
ATOM	2811	HG	LEU	A	203	56.620	65.415	56.769	1.00	0.77
ATOM	2812	CD1	LEU	A	203	57.206	67.224	55.805	1.00	0.77

ATOM	2813	1HD1	LEU	A	203	57.727	66.716	54.996	1.00	0.77
ATOM	2814	2HD1	LEU	A	203	56.191	67.438	55.469	1.00	0.77
ATOM	2815	3HD1	LEU	A	203	57.715	68.159	56.032	1.00	0.77
ATOM	2816	CD2	LEU	A	203	58.595	65.940	57.425	1.00	0.77
ATOM	2817	1HD2	LEU	A	203	59.086	65.474	56.574	1.00	0.77
ATOM	2818	2HD2	LEU	A	203	59.160	66.824	57.711	1.00	0.77
ATOM	2819	3HD2	LEU	A	203	58.597	65.230	58.247	1.00	0.77
ATOM	2820	C	LEU	A	203	55.590	66.936	60.574	1.00	0.77
ATOM	2821	O	LEU	A	203	54.698	67.784	60.420	1.00	0.77
ATOM	2822	N	SER	A	204	56.129	66.636	61.752	1.00	0.80
ATOM	2823	H	SER	A	204	56.867	65.943	61.784	1.00	0.80
ATOM	2824	CA	SER	A	204	55.678	67.178	63.016	1.00	0.80
ATOM	2825	HA	SER	A	204	54.703	67.627	62.884	1.00	0.80
ATOM	2826	CB	SER	A	204	55.516	66.084	64.068	1.00	0.80
ATOM	2827	HB1	SER	A	204	55.372	66.549	65.041	1.00	0.80
ATOM	2828	HB2	SER	A	204	56.404	65.457	64.115	1.00	0.80
ATOM	2829	OG	SER	A	204	54.374	65.295	63.798	1.00	0.80
ATOM	2830	HG	SER	A	204	54.706	64.465	63.358	1.00	0.80
ATOM	2831	C	SER	A	204	56.655	68.211	63.583	1.00	0.80
ATOM	2832	O	SER	A	204	57.846	67.977	63.799	1.00	0.80
ATOM	2833	N	ILE	A	205	56.082	69.354	63.955	1.00	0.95
ATOM	2834	H	ILE	A	205	55.105	69.497	63.689	1.00	0.95
ATOM	2835	CA	ILE	A	205	56.524	70.073	65.140	1.00	0.95
ATOM	2836	HA	ILE	A	205	57.597	69.913	65.262	1.00	0.95
ATOM	2837	CB	ILE	A	205	56.270	71.567	64.991	1.00	0.95
ATOM	2838	HB	ILE	A	205	55.321	71.727	64.478	1.00	0.95
ATOM	2839	CG2	ILE	A	205	56.218	72.315	66.341	1.00	0.95
ATOM	2840	1HG2	ILE	A	205	55.366	71.976	66.931	1.00	0.95
ATOM	2841	2HG2	ILE	A	205	57.142	72.144	66.893	1.00	0.95
ATOM	2842	3HG2	ILE	A	205	56.103	73.380	66.167	1.00	0.95
ATOM	2843	CG1	ILE	A	205	57.428	72.109	64.121	1.00	0.95
ATOM	2844	1HG1	ILE	A	205	57.638	71.406	63.319	1.00	0.95
ATOM	2845	2HG1	ILE	A	205	58.328	72.210	64.724	1.00	0.95
ATOM	2846	CD1	ILE	A	205	57.093	73.440	63.490	1.00	0.95
ATOM	2847	HD1	ILE	A	205	57.909	73.745	62.841	1.00	0.95
ATOM	2848	HD2	ILE	A	205	56.191	73.319	62.893	1.00	0.95
ATOM	2849	HD3	ILE	A	205	56.945	74.197	64.252	1.00	0.95
ATOM	2850	C	ILE	A	205	55.858	69.434	66.347	1.00	0.95
ATOM	2851	O	ILE	A	205	54.670	69.095	66.379	1.00	0.95
ATOM	2852	N	GLY	A	206	56.689	69.294	67.357	1.00	1.13
ATOM	2853	H	GLY	A	206	57.624	69.603	67.242	1.00	1.13
ATOM	2854	CA	GLY	A	206	56.272	69.002	68.705	1.00	1.13
ATOM	2855	HA1	GLY	A	206	55.355	69.537	68.886	1.00	1.13
ATOM	2856	HA2	GLY	A	206	57.034	69.387	69.366	1.00	1.13

ATOM	2857	C	GLY A 206	56.032	67.484	69.045	1.00	1.13
ATOM	2858	O	GLY A 206	56.259	66.659	68.163	1.00	1.13
ATOM	2859	N	SER A 207	55.591	66.930	70.222	1.00	0.92
ATOM	2860	H	SER A 207	55.646	65.939	70.181	1.00	0.92
ATOM	2861	CA	SER A 207	55.014	67.305	71.580	1.00	0.92
ATOM	2862	HA	SER A 207	54.018	67.689	71.405	1.00	0.92
ATOM	2863	CB	SER A 207	54.903	66.073	72.474	1.00	0.92
ATOM	2864	HB1	SER A 207	54.376	66.311	73.393	1.00	0.92
ATOM	2865	HB2	SER A 207	55.882	65.666	72.713	1.00	0.92
ATOM	2866	OG	SER A 207	54.169	65.061	71.784	1.00	0.92
ATOM	2867	HG	SER A 207	53.868	64.402	72.421	1.00	0.92
ATOM	2868	C	SER A 207	55.818	68.438	72.259	1.00	0.92
ATOM	2869	O	SER A 207	56.649	68.167	73.114	1.00	0.92
ATOM	2870	N	VAL A 208	55.609	69.700	71.856	1.00	0.78
ATOM	2871	H	VAL A 208	54.903	69.882	71.157	1.00	0.78
ATOM	2872	CA	VAL A 208	56.216	70.868	72.536	1.00	0.78
ATOM	2873	HA	VAL A 208	57.284	70.679	72.665	1.00	0.78
ATOM	2874	CB	VAL A 208	56.074	72.182	71.718	1.00	0.78
ATOM	2875	HB	VAL A 208	55.025	72.480	71.718	1.00	0.78
ATOM	2876	CG1	VAL A 208	56.904	73.326	72.315	1.00	0.78
ATOM	2877	1HG1	VAL A 208	56.786	74.229	71.714	1.00	0.78
ATOM	2878	2HG1	VAL A 208	56.570	73.572	73.320	1.00	0.78
ATOM	2879	3HG1	VAL A 208	57.961	73.054	72.331	1.00	0.78
ATOM	2880	CG2	VAL A 208	56.506	72.026	70.254	1.00	0.78
ATOM	2881	1HG2	VAL A 208	55.752	71.464	69.715	1.00	0.78
ATOM	2882	2HG2	VAL A 208	56.586	73.007	69.789	1.00	0.78
ATOM	2883	3HG2	VAL A 208	57.475	71.536	70.189	1.00	0.78
ATOM	2884	C	VAL A 208	55.574	71.063	73.908	1.00	0.78
ATOM	2885	O	VAL A 208	54.352	70.989	74.043	1.00	0.78
ATOM	2886	N	GLY A 209	56.430	71.334	74.891	1.00	0.87
ATOM	2887	H	GLY A 209	57.410	71.314	74.667	1.00	0.87
ATOM	2888	CA	GLY A 209	56.117	71.536	76.305	1.00	0.87
ATOM	2889	HA1	GLY A 209	55.041	71.500	76.461	1.00	0.87
ATOM	2890	HA2	GLY A 209	56.467	72.517	76.623	1.00	0.87
ATOM	2891	C	GLY A 209	56.748	70.461	77.193	1.00	0.87
ATOM	2892	O	GLY A 209	57.286	69.469	76.693	1.00	0.87
ATOM	2893	N	GLY A 210	56.640	70.623	78.510	1.00	1.20
ATOM	2894	H	GLY A 210	56.180	71.446	78.877	1.00	1.20
ATOM	2895	CA	GLY A 210	57.087	69.638	79.498	1.00	1.20
ATOM	2896	HA1	GLY A 210	56.484	68.737	79.404	1.00	1.20
ATOM	2897	HA2	GLY A 210	56.954	70.039	80.500	1.00	1.20
ATOM	2898	C	GLY A 210	58.550	69.235	79.388	1.00	1.20
ATOM	2899	O	GLY A 210	58.905	68.067	79.553	1.00	1.20
ATOM	2900	N	ARG A 211	59.390	70.221	79.086	1.00	1.24

ATOM	2901	H	ARG	A	211	58.980	71.141	78.956	1.00	1.24
ATOM	2902	CA	ARG	A	211	60.837	70.110	78.918	1.00	1.24
ATOM	2903	HA	ARG	A	211	61.182	69.160	79.328	1.00	1.24
ATOM	2904	CB	ARG	A	211	61.132	70.155	77.390	1.00	1.24
ATOM	2905	HB1	ARG	A	211	61.327	71.188	77.096	1.00	1.24
ATOM	2906	HB2	ARG	A	211	60.231	69.843	76.857	1.00	1.24
ATOM	2907	CG	ARG	A	211	62.276	69.253	76.875	1.00	1.24
ATOM	2908	HG1	ARG	A	211	62.090	68.225	77.186	1.00	1.24
ATOM	2909	HG2	ARG	A	211	63.225	69.584	77.292	1.00	1.24
ATOM	2910	CD	ARG	A	211	62.343	69.314	75.334	1.00	1.24
ATOM	2911	HD1	ARG	A	211	62.562	70.342	75.041	1.00	1.24
ATOM	2912	HD2	ARG	A	211	61.360	69.075	74.925	1.00	1.24
ATOM	2913	NE	ARG	A	211	63.373	68.435	74.722	1.00	1.24
ATOM	2914	HE	ARG	A	211	64.306	68.833	74.587	1.00	1.24
ATOM	2915	CZ	ARG	A	211	63.189	67.318	74.036	1.00	1.24
ATOM	2916	NH1	ARG	A	211	62.044	66.696	74.052	1.00	1.24
ATOM	2917	1HH1	ARG	A	211	61.304	67.099	74.593	1.00	1.24
ATOM	2918	2HH1	ARG	A	211	61.851	65.964	73.378	1.00	1.24
ATOM	2919	NH2	ARG	A	211	64.150	66.829	73.304	1.00	1.24
ATOM	2920	1HH2	ARG	A	211	65.020	67.377	73.293	1.00	1.24
ATOM	2921	2HH2	ARG	A	211	64.035	66.032	72.707	1.00	1.24
ATOM	2922	C	ARG	A	211	61.509	71.238	79.704	1.00	1.24
ATOM	2923	O	ARG	A	211	60.829	72.059	80.321	1.00	1.24
ATOM	2924	N	ASP	A	212	62.826	71.331	79.661	1.00	1.44
ATOM	2925	H	ASP	A	212	63.373	70.626	79.174	1.00	1.44
ATOM	2926	CA	ASP	A	212	63.521	72.596	79.899	1.00	1.44
ATOM	2927	HA	ASP	A	212	63.049	73.113	80.736	1.00	1.44
ATOM	2928	CB	ASP	A	212	64.983	72.308	80.305	1.00	1.44
ATOM	2929	HB1	ASP	A	212	64.970	71.823	81.283	1.00	1.44
ATOM	2930	HB2	ASP	A	212	65.500	73.261	80.423	1.00	1.44
ATOM	2931	CG	ASP	A	212	65.792	71.414	79.347	1.00	1.44
ATOM	2932	OD1	ASP	A	212	67.030	71.389	79.499	1.00	1.44
ATOM	2933	OD2	ASP	A	212	65.175	70.726	78.496	1.00	1.44
ATOM	2934	C	ASP	A	212	63.435	73.547	78.684	1.00	1.44
ATOM	2935	O	ASP	A	212	63.116	74.721	78.862	1.00	1.44
ATOM	2936	N	ASP	A	213	63.650	73.049	77.457	1.00	1.38
ATOM	2937	H	ASP	A	213	64.034	72.106	77.415	1.00	1.38
ATOM	2938	CA	ASP	A	213	63.739	73.883	76.241	1.00	1.38
ATOM	2939	HA	ASP	A	213	64.431	74.698	76.465	1.00	1.38
ATOM	2940	CB	ASP	A	213	64.402	73.061	75.121	1.00	1.38
ATOM	2941	HB1	ASP	A	213	63.837	72.141	74.982	1.00	1.38
ATOM	2942	HB2	ASP	A	213	65.404	72.780	75.449	1.00	1.38
ATOM	2943	CG	ASP	A	213	64.501	73.781	73.767	1.00	1.38
ATOM	2944	OD1	ASP	A	213	63.422	74.171	73.252	1.00	1.38

ATOM	2945	OD2	ASP	A	213	65.594	73.766	73.158	1.00	1.38
ATOM	2946	C	ASP	A	213	62.424	74.584	75.800	1.00	1.38
ATOM	2947	O	ASP	A	213	62.356	75.815	75.757	1.00	1.38
ATOM	2948	N	ASN	A	214	61.376	73.811	75.490	1.00	0.93
ATOM	2949	H	ASN	A	214	61.538	72.819	75.538	1.00	0.93
ATOM	2950	CA	ASN	A	214	60.020	74.259	75.104	1.00	0.93
ATOM	2951	HA	ASN	A	214	59.499	73.378	74.729	1.00	0.93
ATOM	2952	CB	ASN	A	214	59.274	74.724	76.372	1.00	0.93
ATOM	2953	HB1	ASN	A	214	58.218	74.855	76.143	1.00	0.93
ATOM	2954	HB2	ASN	A	214	59.668	75.690	76.687	1.00	0.93
ATOM	2955	CG	ASN	A	214	59.363	73.752	77.520	1.00	0.93
ATOM	2956	OD1	ASN	A	214	58.747	72.698	77.521	1.00	0.93
ATOM	2957	ND2	ASN	A	214	60.177	74.053	78.496	1.00	0.93
ATOM	2958	1HD2	ASN	A	214	60.797	74.845	78.425	1.00	0.93
ATOM	2959	2HD2	ASN	A	214	60.251	73.407	79.270	1.00	0.93
ATOM	2960	C	ASN	A	214	59.854	75.326	73.994	1.00	0.93
ATOM	2961	O	ASN	A	214	58.776	75.935	73.880	1.00	0.93
ATOM	2962	N	THR	A	215	60.897	75.559	73.195	1.00	0.99
ATOM	2963	H	THR	A	215	61.755	75.029	73.346	1.00	0.99
ATOM	2964	CA	THR	A	215	61.003	76.729	72.313	1.00	0.99
ATOM	2965	HA	THR	A	215	60.048	77.254	72.283	1.00	0.99
ATOM	2966	CB	THR	A	215	62.045	77.725	72.851	1.00	0.99
ATOM	2967	HB	THR	A	215	63.043	77.289	72.781	1.00	0.99
ATOM	2968	CG2	THR	A	215	62.009	79.052	72.095	1.00	0.99
ATOM	2969	1HG2	THR	A	215	62.741	79.733	72.526	1.00	0.99
ATOM	2970	2HG2	THR	A	215	62.254	78.893	71.044	1.00	0.99
ATOM	2971	3HG2	THR	A	215	61.015	79.495	72.167	1.00	0.99
ATOM	2972	OG1	THR	A	215	61.781	78.040	74.203	1.00	0.99
ATOM	2973	HG1	THR	A	215	61.984	77.254	74.743	1.00	0.99
ATOM	2974	C	THR	A	215	61.342	76.304	70.887	1.00	0.99
ATOM	2975	O	THR	A	215	62.490	76.025	70.523	1.00	0.99
ATOM	2976	N	VAL	A	216	60.299	76.192	70.075	1.00	0.43
ATOM	2977	H	VAL	A	216	59.383	76.422	70.445	1.00	0.43
ATOM	2978	CA	VAL	A	216	60.441	76.156	68.617	1.00	0.43
ATOM	2979	HA	VAL	A	216	61.417	75.747	68.356	1.00	0.43
ATOM	2980	CB	VAL	A	216	59.376	75.202	68.019	1.00	0.43
ATOM	2981	HB	VAL	A	216	58.381	75.590	68.202	1.00	0.43
ATOM	2982	CG1	VAL	A	216	59.542	74.959	66.516	1.00	0.43
ATOM	2983	1HG1	VAL	A	216	58.882	74.157	66.189	1.00	0.43
ATOM	2984	2HG1	VAL	A	216	59.261	75.851	65.958	1.00	0.43
ATOM	2985	3HG1	VAL	A	216	60.577	74.691	66.299	1.00	0.43
ATOM	2986	CG2	VAL	A	216	59.462	73.809	68.667	1.00	0.43
ATOM	2987	1HG2	VAL	A	216	58.747	73.126	68.214	1.00	0.43
ATOM	2988	2HG2	VAL	A	216	60.466	73.406	68.542	1.00	0.43

ATOM	2989	3HG2	VAL	A	216	59.236	73.867	69.732	1.00	0.43
ATOM	2990	C	VAL	A	216	60.422	77.613	68.105	1.00	0.43
ATOM	2991	O	VAL	A	216	60.239	78.565	68.866	1.00	0.43
ATOM	2992	N	ASP	A	217	60.733	77.790	66.829	1.00	0.38
ATOM	2993	H	ASP	A	217	60.656	76.988	66.227	1.00	0.38
ATOM	2994	CA	ASP	A	217	61.373	78.975	66.244	1.00	0.38
ATOM	2995	HA	ASP	A	217	61.120	79.878	66.797	1.00	0.38
ATOM	2996	CB	ASP	A	217	62.880	78.767	66.322	1.00	0.38
ATOM	2997	HB1	ASP	A	217	63.058	77.897	65.694	1.00	0.38
ATOM	2998	HB2	ASP	A	217	63.165	78.548	67.351	1.00	0.38
ATOM	2999	CG	ASP	A	217	63.710	79.951	65.801	1.00	0.38
ATOM	3000	OD1	ASP	A	217	63.314	81.106	66.050	1.00	0.38
ATOM	3001	OD2	ASP	A	217	64.611	79.737	64.960	1.00	0.38
ATOM	3002	C	ASP	A	217	60.922	79.103	64.768	1.00	0.38
ATOM	3003	O	ASP	A	217	59.979	78.458	64.319	1.00	0.38
ATOM	3004	N	THR	A	218	61.633	79.875	63.949	1.00	0.43
ATOM	3005	H	THR	A	218	62.271	80.540	64.377	1.00	0.43
ATOM	3006	CA	THR	A	218	61.998	79.475	62.576	1.00	0.43
ATOM	3007	HA	THR	A	218	61.246	79.882	61.907	1.00	0.43
ATOM	3008	CB	THR	A	218	63.361	80.080	62.166	1.00	0.43
ATOM	3009	HB	THR	A	218	64.169	79.416	62.463	1.00	0.43
ATOM	3010	CG2	THR	A	218	63.454	80.286	60.656	1.00	0.43
ATOM	3011	1HG2	THR	A	218	64.432	80.696	60.408	1.00	0.43
ATOM	3012	2HG2	THR	A	218	63.324	79.335	60.140	1.00	0.43
ATOM	3013	3HG2	THR	A	218	62.682	80.984	60.331	1.00	0.43
ATOM	3014	OG1	THR	A	218	63.612	81.322	62.781	1.00	0.43
ATOM	3015	HG1	THR	A	218	64.023	81.117	63.643	1.00	0.43
ATOM	3016	C	THR	A	218	62.083	77.960	62.362	1.00	0.43
ATOM	3017	O	THR	A	218	63.030	77.305	62.798	1.00	0.43
ATOM	3018	N	VAL	A	219	61.142	77.406	61.610	1.00	0.37
ATOM	3019	H	VAL	A	219	60.374	78.000	61.307	1.00	0.37
ATOM	3020	CA	VAL	A	219	61.211	76.038	61.071	1.00	0.37
ATOM	3021	HA	VAL	A	219	62.249	75.738	61.017	1.00	0.37
ATOM	3022	CB	VAL	A	219	60.452	75.022	61.958	1.00	0.37
ATOM	3023	HB	VAL	A	219	59.402	75.304	61.979	1.00	0.37
ATOM	3024	CG1	VAL	A	219	60.535	73.591	61.401	1.00	0.37
ATOM	3025	1HG1	VAL	A	219	60.068	72.889	62.091	1.00	0.37
ATOM	3026	2HG1	VAL	A	219	60.003	73.525	60.453	1.00	0.37
ATOM	3027	3HG1	VAL	A	219	61.574	73.303	61.251	1.00	0.37
ATOM	3028	CG2	VAL	A	219	60.977	74.983	63.396	1.00	0.37
ATOM	3029	1HG2	VAL	A	219	60.476	74.195	63.955	1.00	0.37
ATOM	3030	2HG2	VAL	A	219	62.052	74.812	63.411	1.00	0.37
ATOM	3031	3HG2	VAL	A	219	60.769	75.932	63.888	1.00	0.37
ATOM	3032	C	VAL	A	219	60.608	76.089	59.672	1.00	0.37

ATOM	3033	O	VAL	A	219	59.693	76.858	59.397	1.00	0.37
ATOM	3034	N	THR	A	220	61.142	75.307	58.745	1.00	0.36
ATOM	3035	H	THR	A	220	61.959	74.768	59.010	1.00	0.36
ATOM	3036	CA	THR	A	220	60.817	75.404	57.323	1.00	0.36
ATOM	3037	HA	THR	A	220	59.794	75.758	57.214	1.00	0.36
ATOM	3038	CB	THR	A	220	61.726	76.444	56.650	1.00	0.36
ATOM	3039	HB	THR	A	220	62.753	76.271	56.965	1.00	0.36
ATOM	3040	CG2	THR	A	220	61.674	76.477	55.122	1.00	0.36
ATOM	3041	1HG2	THR	A	220	62.157	77.385	54.762	1.00	0.36
ATOM	3042	2HG2	THR	A	220	62.213	75.621	54.719	1.00	0.36
ATOM	3043	3HG2	THR	A	220	60.645	76.451	54.771	1.00	0.36
ATOM	3044	OG1	THR	A	220	61.338	77.724	57.091	1.00	0.36
ATOM	3045	HG1	THR	A	220	60.861	77.631	57.930	1.00	0.36
ATOM	3046	C	THR	A	220	60.872	74.029	56.668	1.00	0.36
ATOM	3047	O	THR	A	220	61.920	73.552	56.231	1.00	0.36
ATOM	3048	N	PHE	A	221	59.707	73.383	56.639	1.00	0.38
ATOM	3049	H	PHE	A	221	58.889	73.866	57.002	1.00	0.38
ATOM	3050	CA	PHE	A	221	59.452	72.207	55.820	1.00	0.38
ATOM	3051	HA	PHE	A	221	60.341	71.582	55.785	1.00	0.38
ATOM	3052	CB	PHE	A	221	58.298	71.401	56.426	1.00	0.38
ATOM	3053	HB1	PHE	A	221	58.132	70.517	55.810	1.00	0.38
ATOM	3054	HB2	PHE	A	221	57.387	71.999	56.380	1.00	0.38
ATOM	3055	CG	PHE	A	221	58.512	70.964	57.862	1.00	0.38
ATOM	3056	CD1	PHE	A	221	59.190	69.765	58.151	1.00	0.38
ATOM	3057	HD1	PHE	A	221	59.578	69.155	57.348	1.00	0.38
ATOM	3058	CE1	PHE	A	221	59.359	69.357	59.486	1.00	0.38
ATOM	3059	HE1	PHE	A	221	59.887	68.444	59.705	1.00	0.38
ATOM	3060	CZ	PHE	A	221	58.841	70.135	60.538	1.00	0.38
ATOM	3061	HZ	PHE	A	221	58.967	69.818	61.564	1.00	0.38
ATOM	3062	CE2	PHE	A	221	58.172	71.335	60.246	1.00	0.38
ATOM	3063	HE2	PHE	A	221	57.769	71.946	61.041	1.00	0.38
ATOM	3064	CD2	PHE	A	221	58.021	71.755	58.916	1.00	0.38
ATOM	3065	HD2	PHE	A	221	57.501	72.680	58.700	1.00	0.38
ATOM	3066	C	PHE	A	221	59.067	72.645	54.397	1.00	0.38
ATOM	3067	O	PHE	A	221	58.306	73.601	54.220	1.00	0.38
ATOM	3068	N	LYS	A	222	59.601	71.959	53.382	1.00	0.41
ATOM	3069	H	LYS	A	222	60.211	71.180	53.607	1.00	0.41
ATOM	3070	CA	LYS	A	222	59.658	72.452	52.002	1.00	0.41
ATOM	3071	HA	LYS	A	222	58.748	72.992	51.773	1.00	0.41
ATOM	3072	CB	LYS	A	222	60.883	73.405	51.909	1.00	0.41
ATOM	3073	HB1	LYS	A	222	61.449	73.225	50.998	1.00	0.41
ATOM	3074	HB2	LYS	A	222	61.576	73.171	52.721	1.00	0.41
ATOM	3075	CG	LYS	A	222	60.547	74.905	51.997	1.00	0.41
ATOM	3076	HG1	LYS	A	222	61.370	75.395	52.515	1.00	0.41

ATOM	3077	HG2	LYS	A	222	59.667	75.039	52.622	1.00	0.41
ATOM	3078	CD	LYS	A	222	60.347	75.672	50.674	1.00	0.41
ATOM	3079	HD1	LYS	A	222	61.309	76.080	50.360	1.00	0.41
ATOM	3080	HD2	LYS	A	222	59.702	76.526	50.888	1.00	0.41
ATOM	3081	CE	LYS	A	222	59.727	74.891	49.506	1.00	0.41
ATOM	3082	HE1	LYS	A	222	59.123	75.588	48.917	1.00	0.41
ATOM	3083	HE2	LYS	A	222	59.049	74.130	49.901	1.00	0.41
ATOM	3084	NZ	LYS	A	222	60.771	74.289	48.636	1.00	0.41
ATOM	3085	HZ1	LYS	A	222	61.346	73.585	49.101	1.00	0.41
ATOM	3086	HZ2	LYS	A	222	60.394	73.732	47.863	1.00	0.41
ATOM	3087	HZ3	LYS	A	222	61.391	74.967	48.227	1.00	0.41
ATOM	3088	C	LYS	A	222	59.873	71.322	50.975	1.00	0.41
ATOM	3089	O	LYS	A	222	60.675	70.399	51.157	1.00	0.41
ATOM	3090	N	ASP	A	223	59.216	71.467	49.828	1.00	0.67
ATOM	3091	H	ASP	A	223	58.479	72.161	49.810	1.00	0.67
ATOM	3092	CA	ASP	A	223	59.227	70.450	48.758	1.00	0.67
ATOM	3093	HA	ASP	A	223	58.666	70.873	47.923	1.00	0.67
ATOM	3094	CB	ASP	A	223	60.631	70.156	48.191	1.00	0.67
ATOM	3095	HB1	ASP	A	223	60.528	69.631	47.241	1.00	0.67
ATOM	3096	HB2	ASP	A	223	61.179	69.509	48.866	1.00	0.67
ATOM	3097	CG	ASP	A	223	61.397	71.462	47.975	1.00	0.67
ATOM	3098	OD1	ASP	A	223	61.028	72.194	47.030	1.00	0.67
ATOM	3099	OD2	ASP	A	223	62.171	71.881	48.876	1.00	0.67
ATOM	3100	C	ASP	A	223	58.395	69.241	49.236	1.00	0.67
ATOM	3101	O	ASP	A	223	57.226	69.508	49.492	1.00	0.67
ATOM	3102	N	SER	A	224	58.900	68.014	49.486	1.00	0.78
ATOM	3103	H	SER	A	224	59.825	67.785	49.130	1.00	0.78
ATOM	3104	CA	SER	A	224	58.518	67.205	50.673	1.00	0.78
ATOM	3105	HA	SER	A	224	59.457	67.074	51.210	1.00	0.78
ATOM	3106	CB	SER	A	224	57.568	67.823	51.728	1.00	0.78
ATOM	3107	HB1	SER	A	224	57.580	67.187	52.614	1.00	0.78
ATOM	3108	HB2	SER	A	224	56.551	67.809	51.340	1.00	0.78
ATOM	3109	OG	SER	A	224	57.897	69.139	52.126	1.00	0.78
ATOM	3110	HG	SER	A	224	57.642	69.677	51.363	1.00	0.78
ATOM	3111	C	SER	A	224	58.002	65.769	50.477	1.00	0.78
ATOM	3112	O	SER	A	224	58.521	64.836	51.102	1.00	0.78
ATOM	3113	N	THR	A	225	56.909	65.650	49.723	1.00	0.57
ATOM	3114	H	THR	A	225	56.567	66.514	49.313	1.00	0.57
ATOM	3115	CA	THR	A	225	55.894	64.575	49.753	1.00	0.57
ATOM	3116	HA	THR	A	225	55.099	65.128	49.262	1.00	0.57
ATOM	3117	CB	THR	A	225	56.003	63.489	48.640	1.00	0.57
ATOM	3118	HB	THR	A	225	55.732	63.979	47.703	1.00	0.57
ATOM	3119	CG2	THR	A	225	57.391	62.906	48.415	1.00	0.57
ATOM	3120	1HG2	THR	A	225	57.581	62.161	49.176	1.00	0.57

ATOM	3121	2HG2	THR	A	225	57.410	62.412	47.444	1.00	0.57
ATOM	3122	3HG2	THR	A	225	58.153	63.685	48.430	1.00	0.57
ATOM	3123	OG1	THR	A	225	55.144	62.379	48.787	1.00	0.57
ATOM	3124	HG1	THR	A	225	54.307	62.551	48.293	1.00	0.57
ATOM	3125	C	THR	A	225	55.062	64.380	51.038	1.00	0.57
ATOM	3126	O	THR	A	225	54.507	65.350	51.578	1.00	0.57
ATOM	3127	N	VAL	A	226	54.896	63.127	51.440	1.00	0.42
ATOM	3128	H	VAL	A	226	55.294	62.466	50.783	1.00	0.42
ATOM	3129	CA	VAL	A	226	54.186	62.548	52.600	1.00	0.42
ATOM	3130	HA	VAL	A	226	54.903	61.872	53.049	1.00	0.42
ATOM	3131	CB	VAL	A	226	53.758	63.470	53.752	1.00	0.42
ATOM	3132	HB	VAL	A	226	53.013	64.145	53.367	1.00	0.42
ATOM	3133	CG1	VAL	A	226	53.124	62.645	54.886	1.00	0.42
ATOM	3134	1HG1	VAL	A	226	52.953	63.275	55.757	1.00	0.42
ATOM	3135	2HG1	VAL	A	226	52.158	62.246	54.576	1.00	0.42
ATOM	3136	3HG1	VAL	A	226	53.778	61.824	55.176	1.00	0.42
ATOM	3137	CG2	VAL	A	226	54.909	64.240	54.425	1.00	0.42
ATOM	3138	1HG2	VAL	A	226	55.481	63.578	55.066	1.00	0.42
ATOM	3139	2HG2	VAL	A	226	55.584	64.676	53.692	1.00	0.42
ATOM	3140	3HG2	VAL	A	226	54.496	65.046	55.033	1.00	0.42
ATOM	3141	C	VAL	A	226	53.039	61.668	52.109	1.00	0.42
ATOM	3142	O	VAL	A	226	51.888	62.078	51.912	1.00	0.42
ATOM	3143	N	SER	A	227	53.417	60.399	51.964	1.00	0.77
ATOM	3144	H	SER	A	227	54.394	60.191	52.081	1.00	0.77
ATOM	3145	CA	SER	A	227	52.561	59.348	51.453	1.00	0.77
ATOM	3146	HA	SER	A	227	51.613	59.791	51.163	1.00	0.77
ATOM	3147	CB	SER	A	227	53.203	58.775	50.178	1.00	0.77
ATOM	3148	HB1	SER	A	227	53.782	57.883	50.419	1.00	0.77
ATOM	3149	HB2	SER	A	227	53.877	59.515	49.739	1.00	0.77
ATOM	3150	OG	SER	A	227	52.219	58.470	49.210	1.00	0.77
ATOM	3151	HG	SER	A	227	52.241	59.232	48.571	1.00	0.77
ATOM	3152	C	SER	A	227	52.271	58.275	52.493	1.00	0.77
ATOM	3153	O	SER	A	227	53.114	57.938	53.337	1.00	0.77
ATOM	3154	N	ASN	A	228	51.067	57.710	52.408	1.00	0.95
ATOM	3155	H	ASN	A	228	50.396	58.131	51.772	1.00	0.95
ATOM	3156	CA	ASN	A	228	50.681	56.508	53.151	1.00	0.95
ATOM	3157	HA	ASN	A	228	49.596	56.406	53.092	1.00	0.95
ATOM	3158	CB	ASN	A	228	51.313	55.290	52.443	1.00	0.95
ATOM	3159	HB1	ASN	A	228	51.121	54.401	53.044	1.00	0.95
ATOM	3160	HB2	ASN	A	228	52.392	55.413	52.374	1.00	0.95
ATOM	3161	CG	ASN	A	228	50.753	55.032	51.048	1.00	0.95
ATOM	3162	OD1	ASN	A	228	50.105	54.030	50.810	1.00	0.95
ATOM	3163	ND2	ASN	A	228	50.966	55.877	50.060	1.00	0.95
ATOM	3164	1HD2	ASN	A	228	51.479	56.742	50.160	1.00	0.95

ATOM	3165	2HD2	ASN	A	228	50.536	55.646	49.186	1.00	0.95
ATOM	3166	C	ASN	A	228	51.012	56.650	54.641	1.00	0.95
ATOM	3167	O	ASN	A	228	51.734	55.846	55.209	1.00	0.95
ATOM	3168	N	SER	A	229	50.595	57.772	55.221	1.00	0.86
ATOM	3169	H	SER	A	229	49.963	58.358	54.697	1.00	0.86
ATOM	3170	CA	SER	A	229	50.997	58.249	56.545	1.00	0.86
ATOM	3171	HA	SER	A	229	51.570	57.477	57.061	1.00	0.86
ATOM	3172	CB	SER	A	229	51.863	59.511	56.395	1.00	0.86
ATOM	3173	HB1	SER	A	229	51.996	59.994	57.364	1.00	0.86
ATOM	3174	HB2	SER	A	229	51.358	60.218	55.734	1.00	0.86
ATOM	3175	OG	SER	A	229	53.138	59.195	55.860	1.00	0.86
ATOM	3176	HG	SER	A	229	53.003	58.586	55.118	1.00	0.86
ATOM	3177	C	SER	A	229	49.758	58.565	57.372	1.00	0.86
ATOM	3178	O	SER	A	229	48.709	58.886	56.834	1.00	0.86
ATOM	3179	N	VAL	A	230	49.866	58.517	58.688	1.00	0.95
ATOM	3180	H	VAL	A	230	50.769	58.226	59.052	1.00	0.95
ATOM	3181	CA	VAL	A	230	48.777	58.813	59.636	1.00	0.95
ATOM	3182	HA	VAL	A	230	47.882	58.245	59.381	1.00	0.95
ATOM	3183	CB	VAL	A	230	49.277	58.354	61.033	1.00	0.95
ATOM	3184	HB	VAL	A	230	50.150	58.950	61.277	1.00	0.95
ATOM	3185	CG1	VAL	A	230	48.299	58.531	62.195	1.00	0.95
ATOM	3186	1HG1	VAL	A	230	48.809	58.359	63.141	1.00	0.95
ATOM	3187	2HG1	VAL	A	230	47.874	59.534	62.202	1.00	0.95
ATOM	3188	3HG1	VAL	A	230	47.495	57.802	62.109	1.00	0.95
ATOM	3189	CG2	VAL	A	230	49.728	56.883	61.049	1.00	0.95
ATOM	3190	1HG2	VAL	A	230	50.016	56.594	62.059	1.00	0.95
ATOM	3191	2HG2	VAL	A	230	48.904	56.245	60.724	1.00	0.95
ATOM	3192	3HG2	VAL	A	230	50.588	56.720	60.399	1.00	0.95
ATOM	3193	C	VAL	A	230	48.419	60.303	59.648	1.00	0.95
ATOM	3194	O	VAL	A	230	47.265	60.688	59.785	1.00	0.95
ATOM	3195	N	ASN	A	231	49.392	61.180	59.419	1.00	0.46
ATOM	3196	H	ASN	A	231	50.323	60.856	59.191	1.00	0.46
ATOM	3197	CA	ASN	A	231	49.196	62.623	59.396	1.00	0.46
ATOM	3198	HA	ASN	A	231	48.144	62.799	59.196	1.00	0.46
ATOM	3199	CB	ASN	A	231	49.529	63.305	60.758	1.00	0.46
ATOM	3200	HB1	ASN	A	231	48.913	64.199	60.849	1.00	0.46
ATOM	3201	HB2	ASN	A	231	50.565	63.638	60.747	1.00	0.46
ATOM	3202	CG	ASN	A	231	49.336	62.475	62.029	1.00	0.46
ATOM	3203	OD1	ASN	A	231	48.618	62.817	62.950	1.00	0.46
ATOM	3204	ND2	ASN	A	231	50.082	61.416	62.213	1.00	0.46
ATOM	3205	1HD2	ASN	A	231	50.722	61.169	61.470	1.00	0.46
ATOM	3206	2HD2	ASN	A	231	49.877	60.828	62.999	1.00	0.46
ATOM	3207	C	ASN	A	231	49.984	63.225	58.215	1.00	0.46
ATOM	3208	O	ASN	A	231	50.838	62.544	57.634	1.00	0.46

ATOM	3209	N	GLY	A	232	49.734	64.492	57.860	1.00	0.42
ATOM	3210	H	GLY	A	232	48.941	64.984	58.260	1.00	0.42
ATOM	3211	CA	GLY	A	232	50.584	65.162	56.877	1.00	0.42
ATOM	3212	HA1	GLY	A	232	49.943	65.651	56.144	1.00	0.42
ATOM	3213	HA2	GLY	A	232	51.207	64.458	56.331	1.00	0.42
ATOM	3214	C	GLY	A	232	51.479	66.220	57.486	1.00	0.42
ATOM	3215	O	GLY	A	232	52.659	65.997	57.769	1.00	0.42
ATOM	3216	N	ILE	A	233	50.865	67.365	57.742	1.00	0.35
ATOM	3217	H	ILE	A	233	49.874	67.406	57.522	1.00	0.35
ATOM	3218	CA	ILE	A	233	51.419	68.421	58.592	1.00	0.35
ATOM	3219	HA	ILE	A	233	52.511	68.410	58.597	1.00	0.35
ATOM	3220	CB	ILE	A	233	50.888	69.790	58.117	1.00	0.35
ATOM	3221	HB	ILE	A	233	49.806	69.695	58.030	1.00	0.35
ATOM	3222	CG2	ILE	A	233	51.176	70.927	59.124	1.00	0.35
ATOM	3223	1HG2	ILE	A	233	50.815	71.876	58.739	1.00	0.35
ATOM	3224	2HG2	ILE	A	233	50.667	70.751	60.072	1.00	0.35
ATOM	3225	3HG2	ILE	A	233	52.245	71.006	59.300	1.00	0.35
ATOM	3226	CG1	ILE	A	233	51.434	70.116	56.717	1.00	0.35
ATOM	3227	1HG1	ILE	A	233	51.307	69.254	56.065	1.00	0.35
ATOM	3228	2HG1	ILE	A	233	52.499	70.338	56.772	1.00	0.35
ATOM	3229	CD1	ILE	A	233	50.694	71.285	56.065	1.00	0.35
ATOM	3230	HD1	ILE	A	233	51.035	72.226	56.490	1.00	0.35
ATOM	3231	HD2	ILE	A	233	50.901	71.272	55.002	1.00	0.35
ATOM	3232	HD3	ILE	A	233	49.620	71.184	56.203	1.00	0.35
ATOM	3233	C	ILE	A	233	50.883	68.177	59.993	1.00	0.35
ATOM	3234	O	ILE	A	233	49.676	67.957	60.166	1.00	0.35
ATOM	3235	N	ARG	A	234	51.742	68.290	61.006	1.00	0.27
ATOM	3236	H	ARG	A	234	52.732	68.426	60.825	1.00	0.27
ATOM	3237	CA	ARG	A	234	51.274	68.213	62.388	1.00	0.27
ATOM	3238	HA	ARG	A	234	50.236	68.506	62.419	1.00	0.27
ATOM	3239	CB	ARG	A	234	51.331	66.735	62.809	1.00	0.27
ATOM	3240	HB1	ARG	A	234	52.342	66.357	62.669	1.00	0.27
ATOM	3241	HB2	ARG	A	234	50.666	66.166	62.155	1.00	0.27
ATOM	3242	CG	ARG	A	234	50.895	66.505	64.260	1.00	0.27
ATOM	3243	HG1	ARG	A	234	49.991	67.083	64.460	1.00	0.27
ATOM	3244	HG2	ARG	A	234	51.691	66.860	64.909	1.00	0.27
ATOM	3245	CD	ARG	A	234	50.596	65.034	64.562	1.00	0.27
ATOM	3246	HD1	ARG	A	234	49.884	64.671	63.823	1.00	0.27
ATOM	3247	HD2	ARG	A	234	50.115	64.984	65.543	1.00	0.27
ATOM	3248	NE	ARG	A	234	51.812	64.191	64.567	1.00	0.27
ATOM	3249	HE	ARG	A	234	52.688	64.626	64.296	1.00	0.27
ATOM	3250	CZ	ARG	A	234	51.872	62.922	64.937	1.00	0.27
ATOM	3251	NH1	ARG	A	234	50.821	62.180	65.120	1.00	0.27
ATOM	3252	1HH1	ARG	A	234	49.930	62.541	64.805	1.00	0.27

ATOM	3253	2HH1	ARG	A	234	50.963	61.193	65.287	1.00	0.27
ATOM	3254	NH2	ARG	A	234	53.013	62.352	65.168	1.00	0.27
ATOM	3255	1HH2	ARG	A	234	53.897	62.799	64.908	1.00	0.27
ATOM	3256	2HH2	ARG	A	234	53.037	61.342	65.264	1.00	0.27
ATOM	3257	C	ARG	A	234	52.034	69.152	63.319	1.00	0.27
ATOM	3258	O	ARG	A	234	53.231	69.362	63.154	1.00	0.27
ATOM	3259	N	ILE	A	235	51.338	69.721	64.301	1.00	0.35
ATOM	3260	H	ILE	A	235	50.346	69.511	64.352	1.00	0.35
ATOM	3261	CA	ILE	A	235	51.871	70.742	65.211	1.00	0.35
ATOM	3262	HA	ILE	A	235	52.947	70.600	65.312	1.00	0.35
ATOM	3263	CB	ILE	A	235	51.661	72.182	64.661	1.00	0.35
ATOM	3264	HB	ILE	A	235	50.595	72.403	64.690	1.00	0.35
ATOM	3265	CG2	ILE	A	235	52.391	73.198	65.564	1.00	0.35
ATOM	3266	1HG2	ILE	A	235	52.137	74.215	65.269	1.00	0.35
ATOM	3267	2HG2	ILE	A	235	52.086	73.091	66.606	1.00	0.35
ATOM	3268	3HG2	ILE	A	235	53.470	73.072	65.489	1.00	0.35
ATOM	3269	CG1	ILE	A	235	52.130	72.337	63.193	1.00	0.35
ATOM	3270	1HG1	ILE	A	235	51.562	71.656	62.561	1.00	0.35
ATOM	3271	2HG1	ILE	A	235	53.187	72.081	63.119	1.00	0.35
ATOM	3272	CD1	ILE	A	235	51.923	73.730	62.599	1.00	0.35
ATOM	3273	HD1	ILE	A	235	52.069	73.686	61.521	1.00	0.35
ATOM	3274	HD2	ILE	A	235	50.907	74.061	62.798	1.00	0.35
ATOM	3275	HD3	ILE	A	235	52.636	74.436	63.024	1.00	0.35
ATOM	3276	C	ILE	A	235	51.246	70.580	66.607	1.00	0.35
ATOM	3277	O	ILE	A	235	50.229	71.195	66.974	1.00	0.35
ATOM	3278	N	LYS	A	236	51.906	69.713	67.374	1.00	0.35
ATOM	3279	H	LYS	A	236	52.751	69.317	66.977	1.00	0.35
ATOM	3280	CA	LYS	A	236	51.498	69.270	68.708	1.00	0.35
ATOM	3281	HA	LYS	A	236	50.425	69.239	68.791	1.00	0.35
ATOM	3282	CB	LYS	A	236	52.107	67.868	68.947	1.00	0.35
ATOM	3283	HB1	LYS	A	236	51.910	67.563	69.976	1.00	0.35
ATOM	3284	HB2	LYS	A	236	53.188	67.934	68.822	1.00	0.35
ATOM	3285	CG	LYS	A	236	51.610	66.752	68.015	1.00	0.35
ATOM	3286	HG1	LYS	A	236	51.559	67.124	66.999	1.00	0.35
ATOM	3287	HG2	LYS	A	236	50.603	66.479	68.312	1.00	0.35
ATOM	3288	CD	LYS	A	236	52.507	65.501	68.068	1.00	0.35
ATOM	3289	HD1	LYS	A	236	51.891	64.627	67.850	1.00	0.35
ATOM	3290	HD2	LYS	A	236	52.916	65.386	69.073	1.00	0.35
ATOM	3291	CE	LYS	A	236	53.640	65.572	67.031	1.00	0.35
ATOM	3292	HE1	LYS	A	236	54.118	66.556	67.079	1.00	0.35
ATOM	3293	HE2	LYS	A	236	53.204	65.480	66.036	1.00	0.35
ATOM	3294	NZ	LYS	A	236	54.667	64.516	67.233	1.00	0.35
ATOM	3295	HZ1	LYS	A	236	55.425	64.883	67.801	1.00	0.35
ATOM	3296	HZ2	LYS	A	236	54.284	63.683	67.653	1.00	0.35

ATOM	3297	HZ3	LYS	A	236	55.099	64.214	66.351	1.00	0.35
ATOM	3298	C	LYS	A	236	52.078	70.215	69.754	1.00	0.35
ATOM	3299	O	LYS	A	236	53.287	70.174	70.005	1.00	0.35
ATOM	3300	N	ALA	A	237	51.222	70.968	70.442	1.00	0.44
ATOM	3301	H	ALA	A	237	50.248	70.985	70.169	1.00	0.44
ATOM	3302	CA	ALA	A	237	51.570	71.301	71.832	1.00	0.44
ATOM	3303	HA	ALA	A	237	52.633	71.151	72.028	1.00	0.44
ATOM	3304	CB	ALA	A	237	51.273	72.790	72.051	1.00	0.44
ATOM	3305	HB1	ALA	A	237	50.296	73.052	71.653	1.00	0.44
ATOM	3306	HB2	ALA	A	237	51.290	73.021	73.115	1.00	0.44
ATOM	3307	HB3	ALA	A	237	52.023	73.390	71.538	1.00	0.44
ATOM	3308	C	ALA	A	237	50.791	70.428	72.767	1.00	0.44
ATOM	3309	O	ALA	A	237	49.674	70.021	72.393	1.00	0.44
ATOM	3310	N	LYS	A	238	51.465	70.209	73.919	1.00	0.54
ATOM	3311	H	LYS	A	238	52.396	70.620	73.965	1.00	0.54
ATOM	3312	CA	LYS	A	238	51.023	69.552	75.157	1.00	0.54
ATOM	3313	HA	LYS	A	238	50.884	68.518	74.881	1.00	0.54
ATOM	3314	CB	LYS	A	238	52.138	69.633	76.214	1.00	0.54
ATOM	3315	HB1	LYS	A	238	51.686	69.879	77.170	1.00	0.54
ATOM	3316	HB2	LYS	A	238	52.817	70.458	76.002	1.00	0.54
ATOM	3317	CG	LYS	A	238	52.942	68.315	76.332	1.00	0.54
ATOM	3318	HG1	LYS	A	238	53.852	68.367	75.733	1.00	0.54
ATOM	3319	HG2	LYS	A	238	52.345	67.461	76.011	1.00	0.54
ATOM	3320	CD	LYS	A	238	53.273	68.132	77.809	1.00	0.54
ATOM	3321	HD1	LYS	A	238	52.323	68.220	78.332	1.00	0.54
ATOM	3322	HD2	LYS	A	238	53.946	68.932	78.114	1.00	0.54
ATOM	3323	CE	LYS	A	238	53.848	66.807	78.283	1.00	0.54
ATOM	3324	HE1	LYS	A	238	54.929	66.797	78.116	1.00	0.54
ATOM	3325	HE2	LYS	A	238	53.371	65.992	77.731	1.00	0.54
ATOM	3326	NZ	LYS	A	238	53.522	66.690	79.724	1.00	0.54
ATOM	3327	HZ1	LYS	A	238	53.886	65.855	80.144	1.00	0.54
ATOM	3328	HZ2	LYS	A	238	53.851	67.524	80.228	1.00	0.54
ATOM	3329	HZ3	LYS	A	238	52.500	66.660	79.809	1.00	0.54
ATOM	3330	C	LYS	A	238	49.622	70.054	75.597	1.00	0.54
ATOM	3331	O	LYS	A	238	48.913	70.675	74.786	1.00	0.54
ATOM	3332	N	SER	A	239	49.238	69.784	76.854	1.00	0.93
ATOM	3333	H	SER	A	239	49.736	69.075	77.393	1.00	0.93
ATOM	3334	CA	SER	A	239	48.134	70.493	77.510	1.00	0.93
ATOM	3335	HA	SER	A	239	47.587	71.040	76.741	1.00	0.93
ATOM	3336	CB	SER	A	239	47.081	69.513	78.079	1.00	0.93
ATOM	3337	HB1	SER	A	239	46.293	70.086	78.571	1.00	0.93
ATOM	3338	HB2	SER	A	239	47.538	68.853	78.815	1.00	0.93
ATOM	3339	OG	SER	A	239	46.490	68.746	77.036	1.00	0.93
ATOM	3340	HG	SER	A	239	45.708	68.268	77.380	1.00	0.93

ATOM	3341	C	SER A 239	48.562	71.580	78.507	1.00	0.93
ATOM	3342	O	SER A 239	48.534	72.764	78.165	1.00	0.93
ATOM	3343	N	GLY A 240	48.963	71.241	79.734	1.00	0.95
ATOM	3344	H	GLY A 240	49.075	70.254	79.939	1.00	0.95
ATOM	3345	CA	GLY A 240	49.067	72.215	80.847	1.00	0.95
ATOM	3346	HA1	GLY A 240	48.801	71.713	81.777	1.00	0.95
ATOM	3347	HA2	GLY A 240	48.352	73.024	80.693	1.00	0.95
ATOM	3348	C	GLY A 240	50.435	72.842	81.039	1.00	0.95
ATOM	3349	O	GLY A 240	50.940	72.919	82.154	1.00	0.95
ATOM	3350	N	GLU A 241	51.068	73.187	79.927	1.00	1.09
ATOM	3351	H	GLU A 241	50.514	73.214	79.081	1.00	1.09
ATOM	3352	CA	GLU A 241	52.521	73.300	79.756	1.00	1.09
ATOM	3353	HA	GLU A 241	53.019	73.309	80.728	1.00	1.09
ATOM	3354	CB	GLU A 241	52.966	72.056	78.994	1.00	1.09
ATOM	3355	HB1	GLU A 241	53.993	72.165	78.643	1.00	1.09
ATOM	3356	HB2	GLU A 241	52.328	71.935	78.118	1.00	1.09
ATOM	3357	CG	GLU A 241	52.814	70.826	79.918	1.00	1.09
ATOM	3358	HG1	GLU A 241	52.374	70.026	79.345	1.00	1.09
ATOM	3359	HG2	GLU A 241	52.117	70.991	80.733	1.00	1.09
ATOM	3360	CD	GLU A 241	54.131	70.386	80.538	1.00	1.09
ATOM	3361	OE1	GLU A 241	54.974	71.281	80.771	1.00	1.09
ATOM	3362	OE2	GLU A 241	54.318	69.150	80.687	1.00	1.09
ATOM	3363	C	GLU A 241	52.808	74.629	79.072	1.00	1.09
ATOM	3364	O	GLU A 241	51.898	75.249	78.513	1.00	1.09
ATOM	3365	N	THR A 242	54.045	75.118	79.148	1.00	0.92
ATOM	3366	H	THR A 242	54.788	74.577	79.573	1.00	0.92
ATOM	3367	CA	THR A 242	54.344	76.459	78.639	1.00	0.92
ATOM	3368	HA	THR A 242	53.549	76.711	77.962	1.00	0.92
ATOM	3369	CB	THR A 242	54.307	77.509	79.763	1.00	0.92
ATOM	3370	HB	THR A 242	53.390	77.355	80.332	1.00	0.92
ATOM	3371	CG2	THR A 242	55.486	77.437	80.733	1.00	0.92
ATOM	3372	1HG2	THR A 242	55.354	78.182	81.517	1.00	0.92
ATOM	3373	2HG2	THR A 242	55.534	76.447	81.186	1.00	0.92
ATOM	3374	3HG2	THR A 242	56.420	77.636	80.206	1.00	0.92
ATOM	3375	OG1	THR A 242	54.257	78.817	79.234	1.00	0.92
ATOM	3376	HG1	THR A 242	53.740	78.805	78.413	1.00	0.92
ATOM	3377	C	THR A 242	55.605	76.501	77.796	1.00	0.92
ATOM	3378	O	THR A 242	56.539	75.734	78.012	1.00	0.92
ATOM	3379	N	GLY A 243	55.568	77.338	76.766	1.00	0.66
ATOM	3380	H	GLY A 243	54.774	77.967	76.666	1.00	0.66
ATOM	3381	CA	GLY A 243	56.470	77.245	75.628	1.00	0.66
ATOM	3382	HA1	GLY A 243	56.491	76.222	75.254	1.00	0.66
ATOM	3383	HA2	GLY A 243	57.481	77.534	75.918	1.00	0.66
ATOM	3384	C	GLY A 243	56.001	78.164	74.521	1.00	0.66

ATOM	3385	O	GLY	A	243	55.172	79.044	74.744	1.00	0.66
ATOM	3386	N	GLU	A	244	56.518	77.957	73.321	1.00	0.43
ATOM	3387	H	GLU	A	244	57.211	77.222	73.198	1.00	0.43
ATOM	3388	CA	GLU	A	244	56.184	78.778	72.145	1.00	0.43
ATOM	3389	HA	GLU	A	244	55.128	79.052	72.149	1.00	0.43
ATOM	3390	CB	GLU	A	244	57.067	80.048	72.186	1.00	0.43
ATOM	3391	HB1	GLU	A	244	57.628	80.162	71.256	1.00	0.43
ATOM	3392	HB2	GLU	A	244	57.816	79.947	72.973	1.00	0.43
ATOM	3393	CG	GLU	A	244	56.266	81.331	72.466	1.00	0.43
ATOM	3394	HG1	GLU	A	244	56.956	82.065	72.889	1.00	0.43
ATOM	3395	HG2	GLU	A	244	55.494	81.141	73.212	1.00	0.43
ATOM	3396	CD	GLU	A	244	55.635	81.942	71.212	1.00	0.43
ATOM	3397	OE1	GLU	A	244	55.248	83.133	71.258	1.00	0.43
ATOM	3398	OE2	GLU	A	244	55.650	81.311	70.129	1.00	0.43
ATOM	3399	C	GLU	A	244	56.459	77.971	70.868	1.00	0.43
ATOM	3400	O	GLU	A	244	57.126	76.930	70.936	1.00	0.43
ATOM	3401	N	ILE	A	245	55.954	78.418	69.708	1.00	0.34
ATOM	3402	H	ILE	A	245	55.450	79.304	69.715	1.00	0.34
ATOM	3403	CA	ILE	A	245	56.160	77.684	68.448	1.00	0.34
ATOM	3404	HA	ILE	A	245	56.961	76.986	68.653	1.00	0.34
ATOM	3405	CB	ILE	A	245	54.987	76.760	68.053	1.00	0.34
ATOM	3406	HB	ILE	A	245	54.132	77.379	67.888	1.00	0.34
ATOM	3407	CG2	ILE	A	245	55.251	76.063	66.712	1.00	0.34
ATOM	3408	1HG2	ILE	A	245	54.474	75.342	66.475	1.00	0.34
ATOM	3409	2HG2	ILE	A	245	55.230	76.818	65.927	1.00	0.34
ATOM	3410	3HG2	ILE	A	245	56.229	75.580	66.735	1.00	0.34
ATOM	3411	CG1	ILE	A	245	54.687	75.743	69.182	1.00	0.34
ATOM	3412	1HG1	ILE	A	245	54.361	76.298	70.060	1.00	0.34
ATOM	3413	2HG1	ILE	A	245	55.606	75.216	69.440	1.00	0.34
ATOM	3414	CD1	ILE	A	245	53.610	74.688	68.899	1.00	0.34
ATOM	3415	HD1	ILE	A	245	53.960	73.974	68.154	1.00	0.34
ATOM	3416	HD2	ILE	A	245	53.401	74.140	69.817	1.00	0.34
ATOM	3417	HD3	ILE	A	245	52.695	75.168	68.555	1.00	0.34
ATOM	3418	C	ILE	A	245	56.789	78.466	67.278	1.00	0.34
ATOM	3419	O	ILE	A	245	57.668	77.917	66.607	1.00	0.34
ATOM	3420	N	LYS	A	246	56.437	79.736	67.075	1.00	0.36
ATOM	3421	H	LYS	A	246	55.634	80.075	67.588	1.00	0.36
ATOM	3422	CA	LYS	A	246	57.078	80.671	66.131	1.00	0.36
ATOM	3423	HA	LYS	A	246	56.532	81.595	66.269	1.00	0.36
ATOM	3424	CB	LYS	A	246	58.526	80.982	66.590	1.00	0.36
ATOM	3425	HB1	LYS	A	246	59.110	81.460	65.804	1.00	0.36
ATOM	3426	HB2	LYS	A	246	59.008	80.047	66.851	1.00	0.36
ATOM	3427	CG	LYS	A	246	58.570	81.899	67.817	1.00	0.36
ATOM	3428	HG1	LYS	A	246	59.564	81.847	68.264	1.00	0.36

ATOM	3429	HG2	LYS	A	246	57.859	81.534	68.557	1.00	0.36
ATOM	3430	CD	LYS	A	246	58.281	83.366	67.436	1.00	0.36
ATOM	3431	HD1	LYS	A	246	57.629	83.425	66.564	1.00	0.36
ATOM	3432	HD2	LYS	A	246	59.225	83.844	67.170	1.00	0.36
ATOM	3433	CE	LYS	A	246	57.629	84.135	68.586	1.00	0.36
ATOM	3434	HE1	LYS	A	246	57.573	85.192	68.314	1.00	0.36
ATOM	3435	HE2	LYS	A	246	58.249	84.026	69.480	1.00	0.36
ATOM	3436	NZ	LYS	A	246	56.266	83.625	68.845	1.00	0.36
ATOM	3437	HZ1	LYS	A	246	55.847	83.957	69.715	1.00	0.36
ATOM	3438	HZ2	LYS	A	246	55.632	83.735	68.061	1.00	0.36
ATOM	3439	HZ3	LYS	A	246	56.264	82.617	69.028	1.00	0.36
ATOM	3440	C	LYS	A	246	56.846	80.475	64.623	1.00	0.36
ATOM	3441	O	LYS	A	246	55.692	80.429	64.183	1.00	0.36
ATOM	3442	N	GLY	A	247	57.909	80.559	63.807	1.00	0.37
ATOM	3443	H	GLY	A	247	58.816	80.302	64.174	1.00	0.37
ATOM	3444	CA	GLY	A	247	57.823	81.085	62.437	1.00	0.37
ATOM	3445	HA1	GLY	A	247	58.639	81.783	62.255	1.00	0.37
ATOM	3446	HA2	GLY	A	247	56.878	81.580	62.245	1.00	0.37
ATOM	3447	C	GLY	A	247	57.962	79.906	61.493	1.00	0.37
ATOM	3448	O	GLY	A	247	59.053	79.516	61.069	1.00	0.37
ATOM	3449	N	VAL	A	248	56.831	79.250	61.305	1.00	0.34
ATOM	3450	H	VAL	A	248	55.976	79.719	61.586	1.00	0.34
ATOM	3451	CA	VAL	A	248	56.779	77.807	61.111	1.00	0.34
ATOM	3452	HA	VAL	A	248	57.781	77.388	61.025	1.00	0.34
ATOM	3453	CB	VAL	A	248	56.087	77.170	62.332	1.00	0.34
ATOM	3454	HB	VAL	A	248	55.262	77.802	62.667	1.00	0.34
ATOM	3455	CG1	VAL	A	248	55.518	75.796	62.017	1.00	0.34
ATOM	3456	1HG1	VAL	A	248	55.137	75.344	62.931	1.00	0.34
ATOM	3457	2HG1	VAL	A	248	54.679	75.893	61.335	1.00	0.34
ATOM	3458	3HG1	VAL	A	248	56.286	75.174	61.557	1.00	0.34
ATOM	3459	CG2	VAL	A	248	57.094	77.013	63.477	1.00	0.34
ATOM	3460	1HG2	VAL	A	248	56.638	76.515	64.323	1.00	0.34
ATOM	3461	2HG2	VAL	A	248	57.961	76.445	63.158	1.00	0.34
ATOM	3462	3HG2	VAL	A	248	57.433	77.986	63.813	1.00	0.34
ATOM	3463	C	VAL	A	248	56.050	77.609	59.790	1.00	0.34
ATOM	3464	O	VAL	A	248	54.823	77.712	59.678	1.00	0.34
ATOM	3465	N	THR	A	249	56.869	77.395	58.768	1.00	0.43
ATOM	3466	H	THR	A	249	57.860	77.340	58.970	1.00	0.43
ATOM	3467	CA	THR	A	249	56.480	77.397	57.365	1.00	0.43
ATOM	3468	HA	THR	A	249	55.457	77.743	57.324	1.00	0.43
ATOM	3469	CB	THR	A	249	57.308	78.437	56.579	1.00	0.43
ATOM	3470	HB	THR	A	249	57.986	78.936	57.274	1.00	0.43
ATOM	3471	CG2	THR	A	249	58.158	77.909	55.426	1.00	0.43
ATOM	3472	1HG2	THR	A	249	58.738	78.730	55.005	1.00	0.43

ATOM	3473	2HG2	THR	A	249	58.834	77.153	55.805	1.00	0.43
ATOM	3474	3HG2	THR	A	249	57.528	77.481	54.647	1.00	0.43
ATOM	3475	OG1	THR	A	249	56.467	79.429	56.044	1.00	0.43
ATOM	3476	HG1	THR	A	249	56.000	79.036	55.267	1.00	0.43
ATOM	3477	C	THR	A	249	56.506	75.987	56.773	1.00	0.43
ATOM	3478	O	THR	A	249	57.339	75.143	57.119	1.00	0.43
ATOM	3479	N	TYR	A	250	55.554	75.729	55.891	1.00	0.41
ATOM	3480	H	TYR	A	250	54.943	76.502	55.640	1.00	0.41
ATOM	3481	CA	TYR	A	250	55.156	74.404	55.451	1.00	0.41
ATOM	3482	HA	TYR	A	250	55.990	73.707	55.509	1.00	0.41
ATOM	3483	CB	TYR	A	250	54.001	73.908	56.352	1.00	0.41
ATOM	3484	HB1	TYR	A	250	53.376	73.221	55.787	1.00	0.41
ATOM	3485	HB2	TYR	A	250	53.365	74.760	56.582	1.00	0.41
ATOM	3486	CG	TYR	A	250	54.370	73.211	57.653	1.00	0.41
ATOM	3487	CD1	TYR	A	250	54.253	73.895	58.878	1.00	0.41
ATOM	3488	HD1	TYR	A	250	53.980	74.944	58.883	1.00	0.41
ATOM	3489	CE1	TYR	A	250	54.472	73.209	60.089	1.00	0.41
ATOM	3490	HE1	TYR	A	250	54.372	73.704	61.037	1.00	0.41
ATOM	3491	CZ	TYR	A	250	54.816	71.846	60.091	1.00	0.41
ATOM	3492	OH	TYR	A	250	55.021	71.200	61.267	1.00	0.41
ATOM	3493	HH	TYR	A	250	55.264	70.284	61.115	1.00	0.41
ATOM	3494	CE2	TYR	A	250	54.941	71.162	58.866	1.00	0.41
ATOM	3495	HE2	TYR	A	250	55.214	70.118	58.857	1.00	0.41
ATOM	3496	CD2	TYR	A	250	54.722	71.844	57.655	1.00	0.41
ATOM	3497	HD2	TYR	A	250	54.822	71.306	56.729	1.00	0.41
ATOM	3498	C	TYR	A	250	54.703	74.530	53.985	1.00	0.41
ATOM	3499	O	TYR	A	250	53.552	74.863	53.700	1.00	0.41
ATOM	3500	N	SER	A	251	55.632	74.302	53.057	1.00	0.33
ATOM	3501	H	SER	A	251	56.536	73.981	53.389	1.00	0.33
ATOM	3502	CA	SER	A	251	55.604	74.943	51.737	1.00	0.33
ATOM	3503	HA	SER	A	251	54.657	75.453	51.587	1.00	0.33
ATOM	3504	CB	SER	A	251	56.726	75.985	51.755	1.00	0.33
ATOM	3505	HB1	SER	A	251	57.682	75.469	51.775	1.00	0.33
ATOM	3506	HB2	SER	A	251	56.650	76.575	52.668	1.00	0.33
ATOM	3507	OG	SER	A	251	56.698	76.860	50.651	1.00	0.33
ATOM	3508	HG	SER	A	251	56.384	77.724	51.028	1.00	0.33
ATOM	3509	C	SER	A	251	55.844	73.946	50.584	1.00	0.33
ATOM	3510	O	SER	A	251	56.859	73.239	50.511	1.00	0.33
ATOM	3511	N	GLY	A	252	54.887	73.879	49.664	1.00	0.49
ATOM	3512	H	GLY	A	252	54.068	74.469	49.812	1.00	0.49
ATOM	3513	CA	GLY	A	252	54.795	72.875	48.615	1.00	0.49
ATOM	3514	HA1	GLY	A	252	55.783	72.514	48.329	1.00	0.49
ATOM	3515	HA2	GLY	A	252	54.316	73.316	47.741	1.00	0.49
ATOM	3516	C	GLY	A	252	53.928	71.700	49.089	1.00	0.49

ATOM	3517	O	GLY	A	252	52.729	71.616	48.837	1.00	0.49
ATOM	3518	N	ILE	A	253	54.594	70.852	49.856	1.00	0.42
ATOM	3519	H	ILE	A	253	55.585	71.033	49.922	1.00	0.42
ATOM	3520	CA	ILE	A	253	54.178	69.634	50.549	1.00	0.42
ATOM	3521	HA	ILE	A	253	55.171	69.320	50.860	1.00	0.42
ATOM	3522	CB	ILE	A	253	53.572	69.823	51.947	1.00	0.42
ATOM	3523	HB	ILE	A	253	52.499	70.005	51.885	1.00	0.42
ATOM	3524	CG2	ILE	A	253	53.857	68.540	52.743	1.00	0.42
ATOM	3525	1HG2	ILE	A	253	53.278	68.532	53.662	1.00	0.42
ATOM	3526	2HG2	ILE	A	253	53.597	67.663	52.158	1.00	0.42
ATOM	3527	3HG2	ILE	A	253	54.916	68.464	52.991	1.00	0.42
ATOM	3528	CG1	ILE	A	253	54.300	70.993	52.653	1.00	0.42
ATOM	3529	1HG1	ILE	A	253	53.986	71.934	52.204	1.00	0.42
ATOM	3530	2HG1	ILE	A	253	55.375	70.894	52.495	1.00	0.42
ATOM	3531	CD1	ILE	A	253	54.089	71.094	54.160	1.00	0.42
ATOM	3532	HD1	ILE	A	253	54.402	70.187	54.674	1.00	0.42
ATOM	3533	HD2	ILE	A	253	54.718	71.896	54.526	1.00	0.42
ATOM	3534	HD3	ILE	A	253	53.045	71.306	54.371	1.00	0.42
ATOM	3535	C	ILE	A	253	53.860	68.403	49.688	1.00	0.42
ATOM	3536	O	ILE	A	253	54.815	67.731	49.296	1.00	0.42
ATOM	3537	N	SER	A	254	52.595	68.085	49.402	1.00	0.46
ATOM	3538	H	SER	A	254	51.868	68.711	49.731	1.00	0.46
ATOM	3539	CA	SER	A	254	52.167	66.866	48.663	1.00	0.46
ATOM	3540	HA	SER	A	254	51.207	67.130	48.219	1.00	0.46
ATOM	3541	CB	SER	A	254	53.035	66.460	47.457	1.00	0.46
ATOM	3542	HB1	SER	A	254	54.002	66.080	47.776	1.00	0.46
ATOM	3543	HB2	SER	A	254	53.190	67.333	46.823	1.00	0.46
ATOM	3544	OG	SER	A	254	52.389	65.450	46.698	1.00	0.46
ATOM	3545	HG	SER	A	254	52.623	64.557	47.052	1.00	0.46
ATOM	3546	C	SER	A	254	51.907	65.626	49.548	1.00	0.46
ATOM	3547	O	SER	A	254	52.690	64.689	49.720	1.00	0.46
ATOM	3548	N	LEU	A	255	50.707	65.679	50.095	1.00	0.41
ATOM	3549	H	LEU	A	255	50.203	66.521	49.879	1.00	0.41
ATOM	3550	CA	LEU	A	255	50.140	64.933	51.202	1.00	0.41
ATOM	3551	HA	LEU	A	255	50.895	64.292	51.656	1.00	0.41
ATOM	3552	CB	LEU	A	255	49.762	66.082	52.208	1.00	0.41
ATOM	3553	HB1	LEU	A	255	49.205	65.669	53.042	1.00	0.41
ATOM	3554	HB2	LEU	A	255	49.068	66.743	51.683	1.00	0.41
ATOM	3555	CG	LEU	A	255	50.806	67.031	52.799	1.00	0.41
ATOM	3556	HG	LEU	A	255	51.421	67.434	52.000	1.00	0.41
ATOM	3557	CD1	LEU	A	255	50.093	68.207	53.475	1.00	0.41
ATOM	3558	1HD1	LEU	A	255	50.825	68.936	53.817	1.00	0.41
ATOM	3559	2HD1	LEU	A	255	49.437	68.690	52.754	1.00	0.41
ATOM	3560	3HD1	LEU	A	255	49.492	67.857	54.314	1.00	0.41

ATOM	3561	CD2	LEU	A	255	51.677	66.349	53.852	1.00	0.41
ATOM	3562	1HD2	LEU	A	255	52.641	66.151	53.398	1.00	0.41
ATOM	3563	2HD2	LEU	A	255	51.837	66.988	54.719	1.00	0.41
ATOM	3564	3HD2	LEU	A	255	51.229	65.409	54.164	1.00	0.41
ATOM	3565	C	LEU	A	255	48.883	64.141	50.908	1.00	0.41
ATOM	3566	O	LEU	A	255	47.837	64.821	51.095	1.00	0.41
ATOM	3567	N	GLU	A	256	49.177	62.825	50.602	1.00	0.52
ATOM	3568	H	GLU	A	256	50.159	62.679	50.818	1.00	0.52
ATOM	3569	CA	GLU	A	256	48.733	61.617	49.783	1.00	0.52
ATOM	3570	HA	GLU	A	256	47.888	61.837	49.148	1.00	0.52
ATOM	3571	CB	GLU	A	256	49.925	61.212	48.895	1.00	0.52
ATOM	3572	HB1	GLU	A	256	49.638	60.346	48.297	1.00	0.52
ATOM	3573	HB2	GLU	A	256	50.707	60.894	49.580	1.00	0.52
ATOM	3574	CG	GLU	A	256	50.551	62.266	47.965	1.00	0.52
ATOM	3575	HG1	GLU	A	256	50.510	63.253	48.425	1.00	0.52
ATOM	3576	HG2	GLU	A	256	49.978	62.307	47.035	1.00	0.52
ATOM	3577	CD	GLU	A	256	52.024	61.919	47.664	1.00	0.52
ATOM	3578	OE1	GLU	A	256	52.363	60.708	47.705	1.00	0.52
ATOM	3579	OE2	GLU	A	256	52.826	62.856	47.417	1.00	0.52
ATOM	3580	C	GLU	A	256	48.390	60.362	50.626	1.00	0.52
ATOM	3581	O	GLU	A	256	49.214	59.829	51.379	1.00	0.52
ATOM	3582	N	SER	A	257	47.188	59.805	50.436	1.00	0.98
ATOM	3583	H	SER	A	257	46.531	60.300	49.843	1.00	0.98
ATOM	3584	CA	SER	A	257	46.700	58.617	51.166	1.00	0.98
ATOM	3585	HA	SER	A	257	45.629	58.560	50.972	1.00	0.98
ATOM	3586	CB	SER	A	257	47.321	57.338	50.591	1.00	0.98
ATOM	3587	HB1	SER	A	257	48.369	57.267	50.885	1.00	0.98
ATOM	3588	HB2	SER	A	257	47.261	57.365	49.502	1.00	0.98
ATOM	3589	OG	SER	A	257	46.612	56.209	51.059	1.00	0.98
ATOM	3590	HG	SER	A	257	46.711	56.186	52.023	1.00	0.98
ATOM	3591	C	SER	A	257	46.837	58.729	52.688	1.00	0.98
ATOM	3592	O	SER	A	257	47.227	57.759	53.347	1.00	0.98
ATOM	3593	N	ILE	A	258	46.562	59.914	53.245	1.00	0.82
ATOM	3594	H	ILE	A	258	46.306	60.690	52.642	1.00	0.82
ATOM	3595	CA	ILE	A	258	46.721	60.144	54.687	1.00	0.82
ATOM	3596	HA	ILE	A	258	47.593	59.584	54.997	1.00	0.82
ATOM	3597	CB	ILE	A	258	47.003	61.632	54.968	1.00	0.82
ATOM	3598	HB	ILE	A	258	46.279	62.237	54.419	1.00	0.82
ATOM	3599	CG2	ILE	A	258	46.890	61.975	56.467	1.00	0.82
ATOM	3600	1HG2	ILE	A	258	47.154	63.015	56.641	1.00	0.82
ATOM	3601	2HG2	ILE	A	258	45.868	61.833	56.819	1.00	0.82
ATOM	3602	3HG2	ILE	A	258	47.560	61.340	57.044	1.00	0.82
ATOM	3603	CG1	ILE	A	258	48.428	61.944	54.459	1.00	0.82
ATOM	3604	1HG1	ILE	A	258	48.569	61.534	53.459	1.00	0.82

ATOM	3605	2HG1	ILE	A	258	49.166	61.483	55.117	1.00	0.82
ATOM	3606	CD1	ILE	A	258	48.706	63.438	54.362	1.00	0.82
ATOM	3607	HD1	ILE	A	258	49.700	63.579	53.939	1.00	0.82
ATOM	3608	HD2	ILE	A	258	47.958	63.901	53.718	1.00	0.82
ATOM	3609	HD3	ILE	A	258	48.669	63.902	55.342	1.00	0.82
ATOM	3610	C	ILE	A	258	45.521	59.614	55.477	1.00	0.82
ATOM	3611	O	ILE	A	258	44.379	60.000	55.228	1.00	0.82
ATOM	3612	N	SER	A	259	45.791	58.736	56.437	1.00	0.94
ATOM	3613	H	SER	A	259	46.762	58.491	56.586	1.00	0.94
ATOM	3614	CA	SER	A	259	44.782	57.973	57.167	1.00	0.94
ATOM	3615	HA	SER	A	259	44.034	57.631	56.453	1.00	0.94
ATOM	3616	CB	SER	A	259	45.401	56.726	57.809	1.00	0.94
ATOM	3617	HB1	SER	A	259	44.718	56.320	58.558	1.00	0.94
ATOM	3618	HB2	SER	A	259	46.342	56.984	58.295	1.00	0.94
ATOM	3619	OG	SER	A	259	45.618	55.741	56.810	1.00	0.94
ATOM	3620	HG	SER	A	259	44.762	55.344	56.618	1.00	0.94
ATOM	3621	C	SER	A	259	44.013	58.743	58.232	1.00	0.94
ATOM	3622	O	SER	A	259	42.823	58.484	58.360	1.00	0.94
ATOM	3623	N	ASP	A	260	44.624	59.696	58.946	1.00	0.96
ATOM	3624	H	ASP	A	260	45.626	59.797	58.860	1.00	0.96
ATOM	3625	CA	ASP	A	260	44.000	60.256	60.153	1.00	0.96
ATOM	3626	HA	ASP	A	260	42.993	59.847	60.244	1.00	0.96
ATOM	3627	CB	ASP	A	260	44.702	59.840	61.463	1.00	0.96
ATOM	3628	HB1	ASP	A	260	44.084	60.217	62.278	1.00	0.96
ATOM	3629	HB2	ASP	A	260	45.663	60.337	61.550	1.00	0.96
ATOM	3630	CG	ASP	A	260	44.910	58.337	61.709	1.00	0.96
ATOM	3631	OD1	ASP	A	260	45.368	57.633	60.777	1.00	0.96
ATOM	3632	OD2	ASP	A	260	44.727	57.931	62.880	1.00	0.96
ATOM	3633	C	ASP	A	260	43.803	61.765	60.096	1.00	0.96
ATOM	3634	O	ASP	A	260	42.692	62.235	60.321	1.00	0.96
ATOM	3635	N	TYR	A	261	44.828	62.537	59.737	1.00	0.86
ATOM	3636	H	TYR	A	261	45.719	62.086	59.574	1.00	0.86
ATOM	3637	CA	TYR	A	261	44.733	64.005	59.744	1.00	0.86
ATOM	3638	HA	TYR	A	261	43.705	64.309	59.623	1.00	0.86
ATOM	3639	CB	TYR	A	261	45.202	64.549	61.110	1.00	0.86
ATOM	3640	HB1	TYR	A	261	45.018	65.624	61.115	1.00	0.86
ATOM	3641	HB2	TYR	A	261	46.279	64.399	61.203	1.00	0.86
ATOM	3642	CG	TYR	A	261	44.551	63.947	62.342	1.00	0.86
ATOM	3643	CD1	TYR	A	261	45.140	62.833	62.970	1.00	0.86
ATOM	3644	HD1	TYR	A	261	46.053	62.410	62.578	1.00	0.86
ATOM	3645	CE1	TYR	A	261	44.525	62.242	64.088	1.00	0.86
ATOM	3646	HE1	TYR	A	261	44.948	61.361	64.543	1.00	0.86
ATOM	3647	CZ	TYR	A	261	43.323	62.773	64.593	1.00	0.86
ATOM	3648	OH	TYR	A	261	42.723	62.185	65.662	1.00	0.86

ATOM	3649	HH	TYR	A	261	41.930	62.648	65.930	1.00	0.86
ATOM	3650	CE2	TYR	A	261	42.747	63.913	63.987	1.00	0.86
ATOM	3651	HE2	TYR	A	261	41.833	64.325	64.378	1.00	0.86
ATOM	3652	CD2	TYR	A	261	43.367	64.499	62.866	1.00	0.86
ATOM	3653	HD2	TYR	A	261	42.934	65.368	62.401	1.00	0.86
ATOM	3654	C	TYR	A	261	45.600	64.629	58.648	1.00	0.86
ATOM	3655	O	TYR	A	261	46.830	64.590	58.717	1.00	0.86
ATOM	3656	N	GLY	A	262	44.981	65.245	57.639	1.00	0.80
ATOM	3657	H	GLY	A	262	43.968	65.238	57.614	1.00	0.80
ATOM	3658	CA	GLY	A	262	45.752	65.920	56.575	1.00	0.80
ATOM	3659	HA1	GLY	A	262	45.064	66.370	55.864	1.00	0.80
ATOM	3660	HA2	GLY	A	262	46.368	65.192	56.047	1.00	0.80
ATOM	3661	C	GLY	A	262	46.667	67.023	57.121	1.00	0.80
ATOM	3662	O	GLY	A	262	47.904	66.902	57.115	1.00	0.80
ATOM	3663	N	ILE	A	263	46.020	68.010	57.742	1.00	0.39
ATOM	3664	H	ILE	A	263	45.010	67.990	57.703	1.00	0.39
ATOM	3665	CA	ILE	A	263	46.650	68.977	58.647	1.00	0.39
ATOM	3666	HA	ILE	A	263	47.722	68.790	58.684	1.00	0.39
ATOM	3667	CB	ILE	A	263	46.427	70.444	58.197	1.00	0.39
ATOM	3668	HB	ILE	A	263	45.437	70.731	58.544	1.00	0.39
ATOM	3669	CG2	ILE	A	263	47.451	71.375	58.871	1.00	0.39
ATOM	3670	1HG2	ILE	A	263	47.077	72.399	58.874	1.00	0.39
ATOM	3671	2HG2	ILE	A	263	47.647	71.078	59.899	1.00	0.39
ATOM	3672	3HG2	ILE	A	263	48.389	71.364	58.321	1.00	0.39
ATOM	3673	CG1	ILE	A	263	46.454	70.670	56.670	1.00	0.39
ATOM	3674	1HG1	ILE	A	263	45.668	70.075	56.214	1.00	0.39
ATOM	3675	2HG1	ILE	A	263	47.409	70.339	56.263	1.00	0.39
ATOM	3676	CD1	ILE	A	263	46.204	72.133	56.280	1.00	0.39
ATOM	3677	HD1	ILE	A	263	45.941	72.202	55.227	1.00	0.39
ATOM	3678	HD2	ILE	A	263	45.375	72.534	56.860	1.00	0.39
ATOM	3679	HD3	ILE	A	263	47.096	72.734	56.459	1.00	0.39
ATOM	3680	C	ILE	A	263	46.075	68.782	60.048	1.00	0.39
ATOM	3681	O	ILE	A	263	44.859	68.643	60.213	1.00	0.39
ATOM	3682	N	LEU	A	264	46.924	68.823	61.071	1.00	0.39
ATOM	3683	H	LEU	A	264	47.925	68.895	60.937	1.00	0.39
ATOM	3684	CA	LEU	A	264	46.528	68.740	62.459	1.00	0.39
ATOM	3685	HA	LEU	A	264	45.463	68.926	62.582	1.00	0.39
ATOM	3686	CB	LEU	A	264	46.898	67.320	62.950	1.00	0.39
ATOM	3687	HB1	LEU	A	264	47.960	67.309	63.197	1.00	0.39
ATOM	3688	HB2	LEU	A	264	46.776	66.617	62.130	1.00	0.39
ATOM	3689	CG	LEU	A	264	46.109	66.764	64.147	1.00	0.39
ATOM	3690	HG	LEU	A	264	45.122	66.469	63.807	1.00	0.39
ATOM	3691	CD1	LEU	A	264	46.814	65.515	64.674	1.00	0.39
ATOM	3692	1HD1	LEU	A	264	46.211	65.059	65.458	1.00	0.39

ATOM	3693	2HD1	LEU	A	264	46.961	64.794	63.871	1.00	0.39
ATOM	3694	3HD1	LEU	A	264	47.776	65.794	65.101	1.00	0.39
ATOM	3695	CD2	LEU	A	264	45.945	67.764	65.287	1.00	0.39
ATOM	3696	1HD2	LEU	A	264	45.550	67.264	66.172	1.00	0.39
ATOM	3697	2HD2	LEU	A	264	46.915	68.189	65.531	1.00	0.39
ATOM	3698	3HD2	LEU	A	264	45.271	68.567	65.004	1.00	0.39
ATOM	3699	C	LEU	A	264	47.361	69.790	63.203	1.00	0.39
ATOM	3700	O	LEU	A	264	48.586	69.827	63.104	1.00	0.39
ATOM	3701	N	ILE	A	265	46.707	70.668	63.935	1.00	0.48
ATOM	3702	H	ILE	A	265	45.691	70.630	63.947	1.00	0.48
ATOM	3703	CA	ILE	A	265	47.351	71.551	64.893	1.00	0.48
ATOM	3704	HA	ILE	A	265	48.382	71.250	65.081	1.00	0.48
ATOM	3705	CB	ILE	A	265	47.313	73.020	64.430	1.00	0.48
ATOM	3706	HB	ILE	A	265	46.278	73.322	64.265	1.00	0.48
ATOM	3707	CG2	ILE	A	265	47.886	73.904	65.544	1.00	0.48
ATOM	3708	1HG2	ILE	A	265	47.969	74.933	65.205	1.00	0.48
ATOM	3709	2HG2	ILE	A	265	47.232	73.892	66.420	1.00	0.48
ATOM	3710	3HG2	ILE	A	265	48.871	73.544	65.836	1.00	0.48
ATOM	3711	CG1	ILE	A	265	48.117	73.248	63.132	1.00	0.48
ATOM	3712	1HG1	ILE	A	265	48.935	72.532	63.068	1.00	0.48
ATOM	3713	2HG1	ILE	A	265	48.548	74.245	63.143	1.00	0.48
ATOM	3714	CD1	ILE	A	265	47.265	73.151	61.865	1.00	0.48
ATOM	3715	HD1	ILE	A	265	47.909	73.311	61.001	1.00	0.48
ATOM	3716	HD2	ILE	A	265	46.792	72.175	61.785	1.00	0.48
ATOM	3717	HD3	ILE	A	265	46.495	73.919	61.883	1.00	0.48
ATOM	3718	C	ILE	A	265	46.560	71.340	66.157	1.00	0.48
ATOM	3719	O	ILE	A	265	45.352	71.554	66.074	1.00	0.48
ATOM	3720	N	GLU	A	266	47.153	70.894	67.271	1.00	0.58
ATOM	3721	H	GLU	A	266	48.152	70.708	67.315	1.00	0.58
ATOM	3722	CA	GLU	A	266	46.320	70.648	68.432	1.00	0.58
ATOM	3723	HA	GLU	A	266	45.271	70.670	68.142	1.00	0.58
ATOM	3724	CB	GLU	A	266	46.451	69.210	68.986	1.00	0.58
ATOM	3725	HB1	GLU	A	266	45.848	68.548	68.363	1.00	0.58
ATOM	3726	HB2	GLU	A	266	46.008	69.179	69.982	1.00	0.58
ATOM	3727	CG	GLU	A	266	47.867	68.640	69.055	1.00	0.58
ATOM	3728	HG1	GLU	A	266	47.892	67.905	69.859	1.00	0.58
ATOM	3729	HG2	GLU	A	266	48.530	69.452	69.351	1.00	0.58
ATOM	3730	CD	GLU	A	266	48.318	67.957	67.740	1.00	0.58
ATOM	3731	OE1	GLU	A	266	47.992	66.770	67.541	1.00	0.58
ATOM	3732	OE2	GLU	A	266	49.043	68.584	66.937	1.00	0.58
ATOM	3733	C	GLU	A	266	46.398	71.832	69.341	1.00	0.58
ATOM	3734	O	GLU	A	266	46.013	72.887	68.828	1.00	0.58
ATOM	3735	N	GLN	A	267	46.897	71.581	70.564	1.00	0.54
ATOM	3736	H	GLN	A	267	47.014	70.597	70.726	1.00	0.54

ATOM	3737	CA	GLN	A	267	47.245	72.415	71.726	1.00	0.54
ATOM	3738	HA	GLN	A	267	48.312	72.319	71.890	1.00	0.54
ATOM	3739	CB	GLN	A	267	46.942	73.894	71.408	1.00	0.54
ATOM	3740	HB1	GLN	A	267	45.862	74.036	71.356	1.00	0.54
ATOM	3741	HB2	GLN	A	267	47.367	74.104	70.427	1.00	0.54
ATOM	3742	CG	GLN	A	267	47.538	74.974	72.311	1.00	0.54
ATOM	3743	HG1	GLN	A	267	48.587	74.757	72.507	1.00	0.54
ATOM	3744	HG2	GLN	A	267	46.993	75.007	73.251	1.00	0.54
ATOM	3745	CD	GLN	A	267	47.416	76.325	71.605	1.00	0.54
ATOM	3746	OE1	GLN	A	267	46.368	76.748	71.161	1.00	0.54
ATOM	3747	NE2	GLN	A	267	48.462	77.079	71.404	1.00	0.54
ATOM	3748	1HE2	GLN	A	267	49.389	76.841	71.744	1.00	0.54
ATOM	3749	2HE2	GLN	A	267	48.285	77.964	70.943	1.00	0.54
ATOM	3750	C	GLN	A	267	46.572	71.834	72.975	1.00	0.54
ATOM	3751	O	GLN	A	267	46.019	72.539	73.815	1.00	0.54
ATOM	3752	N	ASN	A	268	46.574	70.500	72.974	1.00	0.63
ATOM	3753	H	ASN	A	268	47.280	70.078	72.389	1.00	0.63
ATOM	3754	CA	ASN	A	268	45.817	69.555	73.770	1.00	0.63
ATOM	3755	HA	ASN	A	268	45.951	69.780	74.827	1.00	0.63
ATOM	3756	CB	ASN	A	268	44.328	69.650	73.380	1.00	0.63
ATOM	3757	HB1	ASN	A	268	44.186	69.314	72.353	1.00	0.63
ATOM	3758	HB2	ASN	A	268	43.982	70.670	73.432	1.00	0.63
ATOM	3759	CG	ASN	A	268	43.453	68.813	74.284	1.00	0.63
ATOM	3760	OD1	ASN	A	268	42.740	67.938	73.827	1.00	0.63
ATOM	3761	ND2	ASN	A	268	43.512	69.039	75.573	1.00	0.63
ATOM	3762	1HD2	ASN	A	268	43.936	69.867	75.954	1.00	0.63
ATOM	3763	2HD2	ASN	A	268	42.872	68.552	76.204	1.00	0.63
ATOM	3764	C	ASN	A	268	46.410	68.182	73.448	1.00	0.63
ATOM	3765	O	ASN	A	268	45.903	67.453	72.598	1.00	0.63
ATOM	3766	N	TYR	A	269	47.572	67.909	74.032	1.00	0.88
ATOM	3767	H	TYR	A	269	47.940	68.604	74.668	1.00	0.88
ATOM	3768	CA	TYR	A	269	48.125	66.565	74.088	1.00	0.88
ATOM	3769	HA	TYR	A	269	47.291	65.876	73.972	1.00	0.88
ATOM	3770	CB	TYR	A	269	49.175	66.278	72.994	1.00	0.88
ATOM	3771	HB1	TYR	A	269	50.062	65.845	73.457	1.00	0.88
ATOM	3772	HB2	TYR	A	269	49.481	67.222	72.539	1.00	0.88
ATOM	3773	CG	TYR	A	269	48.734	65.310	71.903	1.00	0.88
ATOM	3774	CD1	TYR	A	269	49.117	65.539	70.573	1.00	0.88
ATOM	3775	HD1	TYR	A	269	49.706	66.407	70.332	1.00	0.88
ATOM	3776	CE1	TYR	A	269	48.663	64.688	69.548	1.00	0.88
ATOM	3777	HE1	TYR	A	269	48.927	64.884	68.524	1.00	0.88
ATOM	3778	CZ	TYR	A	269	47.788	63.625	69.833	1.00	0.88
ATOM	3779	OH	TYR	A	269	47.254	62.905	68.812	1.00	0.88
ATOM	3780	HH	TYR	A	269	47.435	63.333	67.972	1.00	0.88

ATOM	3781	CE2	TYR	A	269	47.467	63.342	71.172	1.00	0.88
ATOM	3782	HE2	TYR	A	269	46.819	62.509	71.397	1.00	0.88
ATOM	3783	CD2	TYR	A	269	47.955	64.172	72.201	1.00	0.88
ATOM	3784	HD2	TYR	A	269	47.685	63.958	73.220	1.00	0.88
ATOM	3785	C	TYR	A	269	48.676	66.350	75.491	1.00	0.88
ATOM	3786	O	TYR	A	269	49.693	66.941	75.856	1.00	0.88
ATOM	3787	N	ASP	A	270	48.047	65.491	76.288	1.00	1.19
ATOM	3788	H	ASP	A	270	47.204	65.009	75.970	1.00	1.19
ATOM	3789	CA	ASP	A	270	48.724	64.990	77.474	1.00	1.19
ATOM	3790	HA	ASP	A	270	49.788	65.070	77.242	1.00	1.19
ATOM	3791	CB	ASP	A	270	48.548	65.884	78.723	1.00	1.19
ATOM	3792	HB1	ASP	A	270	48.275	65.261	79.576	1.00	1.19
ATOM	3793	HB2	ASP	A	270	47.735	66.591	78.560	1.00	1.19
ATOM	3794	CG	ASP	A	270	49.852	66.646	79.072	1.00	1.19
ATOM	3795	OD1	ASP	A	270	50.871	65.973	79.387	1.00	1.19
ATOM	3796	OD2	ASP	A	270	49.863	67.900	79.039	1.00	1.19
ATOM	3797	C	ASP	A	270	48.598	63.492	77.707	1.00	1.19
ATOM	3798	O	ASP	A	270	47.667	62.845	77.249	1.00	1.19
ATOM	3799	N	GLY	A	271	49.657	62.918	78.284	1.00	1.90
ATOM	3800	H	GLY	A	271	50.379	63.526	78.648	1.00	1.90
ATOM	3801	CA	GLY	A	271	49.994	61.521	78.019	1.00	1.90
ATOM	3802	HA1	GLY	A	271	49.120	60.893	78.210	1.00	1.90
ATOM	3803	HA2	GLY	A	271	50.794	61.202	78.685	1.00	1.90
ATOM	3804	C	GLY	A	271	50.451	61.299	76.573	1.00	1.90
ATOM	3805	O	GLY	A	271	51.601	61.574	76.222	1.00	1.90
ATOM	3806	N	GLY	A	272	49.517	60.867	75.733	1.00	1.96
ATOM	3807	H	GLY	A	272	48.629	60.557	76.145	1.00	1.96
ATOM	3808	CA	GLY	A	272	49.530	61.000	74.273	1.00	1.96
ATOM	3809	HA1	GLY	A	272	50.037	60.147	73.826	1.00	1.96
ATOM	3810	HA2	GLY	A	272	50.039	61.922	73.994	1.00	1.96
ATOM	3811	C	GLY	A	272	48.099	61.063	73.744	1.00	1.96
ATOM	3812	O	GLY	A	272	47.782	60.504	72.694	1.00	1.96
ATOM	3813	N	ASP	A	273	47.246	61.741	74.509	1.00	1.85
ATOM	3814	H	ASP	A	273	47.598	62.114	75.387	1.00	1.85
ATOM	3815	CA	ASP	A	273	45.796	61.727	74.434	1.00	1.85
ATOM	3816	HA	ASP	A	273	45.475	61.137	73.576	1.00	1.85
ATOM	3817	CB	ASP	A	273	45.239	61.076	75.721	1.00	1.85
ATOM	3818	HB1	ASP	A	273	44.164	60.933	75.591	1.00	1.85
ATOM	3819	HB2	ASP	A	273	45.367	61.766	76.556	1.00	1.85
ATOM	3820	CG	ASP	A	273	45.891	59.734	76.099	1.00	1.85
ATOM	3821	OD1	ASP	A	273	47.041	59.740	76.607	1.00	1.85
ATOM	3822	OD2	ASP	A	273	45.229	58.693	75.882	1.00	1.85
ATOM	3823	C	ASP	A	273	45.284	63.166	74.302	1.00	1.85
ATOM	3824	O	ASP	A	273	45.781	64.079	74.965	1.00	1.85

ATOM	3825	N	LEU	A	274	44.289	63.388	73.441	1.00	1.60
ATOM	3826	H	LEU	A	274	43.899	62.612	72.932	1.00	1.60
ATOM	3827	CA	LEU	A	274	43.687	64.707	73.256	1.00	1.60
ATOM	3828	HA	LEU	A	274	44.341	65.457	73.707	1.00	1.60
ATOM	3829	CB	LEU	A	274	43.614	65.131	71.770	1.00	1.60
ATOM	3830	HB1	LEU	A	274	44.632	65.306	71.418	1.00	1.60
ATOM	3831	HB2	LEU	A	274	43.117	66.102	71.756	1.00	1.60
ATOM	3832	CG	LEU	A	274	42.905	64.201	70.763	1.00	1.60
ATOM	3833	HG	LEU	A	274	42.078	63.679	71.240	1.00	1.60
ATOM	3834	CD1	LEU	A	274	42.344	65.024	69.596	1.00	1.60
ATOM	3835	1HD1	LEU	A	274	41.838	64.371	68.887	1.00	1.60
ATOM	3836	2HD1	LEU	A	274	41.626	65.749	69.981	1.00	1.60
ATOM	3837	3HD1	LEU	A	274	43.154	65.556	69.094	1.00	1.60
ATOM	3838	CD2	LEU	A	274	43.852	63.165	70.147	1.00	1.60
ATOM	3839	1HD2	LEU	A	274	43.317	62.554	69.420	1.00	1.60
ATOM	3840	2HD2	LEU	A	274	44.681	63.671	69.651	1.00	1.60
ATOM	3841	3HD2	LEU	A	274	44.252	62.512	70.918	1.00	1.60
ATOM	3842	C	LEU	A	274	42.377	64.811	74.031	1.00	1.60
ATOM	3843	O	LEU	A	274	41.301	64.498	73.521	1.00	1.60
ATOM	3844	N	ASP	A	275	42.513	65.173	75.307	1.00	1.80
ATOM	3845	H	ASP	A	275	43.448	65.397	75.627	1.00	1.80
ATOM	3846	CA	ASP	A	275	41.432	65.230	76.294	1.00	1.80
ATOM	3847	HA	ASP	A	275	41.051	64.214	76.385	1.00	1.80
ATOM	3848	CB	ASP	A	275	42.014	65.592	77.675	1.00	1.80
ATOM	3849	HB1	ASP	A	275	42.789	64.867	77.930	1.00	1.80
ATOM	3850	HB2	ASP	A	275	41.224	65.507	78.423	1.00	1.80
ATOM	3851	CG	ASP	A	275	42.598	67.004	77.733	1.00	1.80
ATOM	3852	OD1	ASP	A	275	41.808	67.945	77.510	1.00	1.80
ATOM	3853	OD2	ASP	A	275	43.825	67.149	77.949	1.00	1.80
ATOM	3854	C	ASP	A	275	40.199	66.070	75.904	1.00	1.80
ATOM	3855	O	ASP	A	275	39.108	65.823	76.424	1.00	1.80
ATOM	3856	N	GLY	A	276	40.356	66.991	74.953	1.00	2.69
ATOM	3857	H	GLY	A	276	41.298	67.121	74.599	1.00	2.69
ATOM	3858	CA	GLY	A	276	39.325	67.862	74.401	1.00	2.69
ATOM	3859	HA1	GLY	A	276	38.351	67.583	74.805	1.00	2.69
ATOM	3860	HA2	GLY	A	276	39.303	67.755	73.318	1.00	2.69
ATOM	3861	C	GLY	A	276	39.567	69.334	74.739	1.00	2.69
ATOM	3862	O	GLY	A	276	39.299	70.208	73.919	1.00	2.69
ATOM	3863	N	GLU	A	277	40.124	69.613	75.915	1.00	1.44
ATOM	3864	H	GLU	A	277	40.443	68.846	76.508	1.00	1.44
ATOM	3865	CA	GLU	A	277	40.298	70.961	76.451	1.00	1.44
ATOM	3866	HA	GLU	A	277	39.631	71.655	75.936	1.00	1.44
ATOM	3867	CB	GLU	A	277	39.916	70.984	77.946	1.00	1.44
ATOM	3868	HB1	GLU	A	277	40.245	71.924	78.391	1.00	1.44

ATOM	3869	HB2	GLU	A	277	40.450	70.179	78.453	1.00	1.44
ATOM	3870	CG	GLU	A	277	38.411	70.815	78.226	1.00	1.44
ATOM	3871	HG1	GLU	A	277	38.308	70.413	79.238	1.00	1.44
ATOM	3872	HG2	GLU	A	277	37.979	70.080	77.544	1.00	1.44
ATOM	3873	CD	GLU	A	277	37.628	72.136	78.138	1.00	1.44
ATOM	3874	OE1	GLU	A	277	37.767	72.844	77.115	1.00	1.44
ATOM	3875	OE2	GLU	A	277	36.877	72.429	79.100	1.00	1.44
ATOM	3876	C	GLU	A	277	41.726	71.454	76.255	1.00	1.44
ATOM	3877	O	GLU	A	277	42.643	71.285	77.064	1.00	1.44
ATOM	3878	N	VAL	A	278	41.891	72.072	75.098	1.00	1.15
ATOM	3879	H	VAL	A	278	41.080	72.052	74.495	1.00	1.15
ATOM	3880	CA	VAL	A	278	42.963	72.992	74.720	1.00	1.15
ATOM	3881	HA	VAL	A	278	43.804	72.432	74.355	1.00	1.15
ATOM	3882	CB	VAL	A	278	42.403	73.887	73.596	1.00	1.15
ATOM	3883	HB	VAL	A	278	43.219	74.491	73.207	1.00	1.15
ATOM	3884	CG1	VAL	A	278	41.835	73.033	72.461	1.00	1.15
ATOM	3885	1HG1	VAL	A	278	41.587	73.683	71.624	1.00	1.15
ATOM	3886	2HG1	VAL	A	278	42.568	72.287	72.157	1.00	1.15
ATOM	3887	3HG1	VAL	A	278	40.918	72.525	72.762	1.00	1.15
ATOM	3888	CG2	VAL	A	278	41.247	74.805	74.045	1.00	1.15
ATOM	3889	1HG2	VAL	A	278	40.859	75.361	73.192	1.00	1.15
ATOM	3890	2HG2	VAL	A	278	40.432	74.222	74.475	1.00	1.15
ATOM	3891	3HG2	VAL	A	278	41.587	75.517	74.796	1.00	1.15
ATOM	3892	C	VAL	A	278	43.427	73.870	75.879	1.00	1.15
ATOM	3893	O	VAL	A	278	42.640	74.277	76.735	1.00	1.15
ATOM	3894	N	THR	A	279	44.706	74.242	75.900	1.00	0.98
ATOM	3895	H	THR	A	279	45.353	73.871	75.213	1.00	0.98
ATOM	3896	CA	THR	A	279	45.191	75.187	76.914	1.00	0.98
ATOM	3897	HA	THR	A	279	44.384	75.898	77.101	1.00	0.98
ATOM	3898	CB	THR	A	279	45.483	74.518	78.286	1.00	0.98
ATOM	3899	HB	THR	A	279	44.758	74.919	78.995	1.00	0.98
ATOM	3900	CG2	THR	A	279	45.384	72.992	78.361	1.00	0.98
ATOM	3901	1HG2	THR	A	279	45.769	72.634	79.315	1.00	0.98
ATOM	3902	2HG2	THR	A	279	44.337	72.701	78.295	1.00	0.98
ATOM	3903	3HG2	THR	A	279	45.933	72.534	77.541	1.00	0.98
ATOM	3904	OG1	THR	A	279	46.762	74.830	78.796	1.00	0.98
ATOM	3905	HG1	THR	A	279	47.393	74.204	78.395	1.00	0.98
ATOM	3906	C	THR	A	279	46.373	76.028	76.431	1.00	0.98
ATOM	3907	O	THR	A	279	47.251	75.578	75.692	1.00	0.98
ATOM	3908	N	SER	A	280	46.380	77.290	76.859	1.00	0.89
ATOM	3909	H	SER	A	280	45.665	77.581	77.516	1.00	0.89
ATOM	3910	CA	SER	A	280	46.991	78.391	76.121	1.00	0.89
ATOM	3911	HA	SER	A	280	46.942	78.125	75.065	1.00	0.89
ATOM	3912	CB	SER	A	280	46.113	79.647	76.268	1.00	0.89

ATOM	3913	HB1	SER	A	280	45.260	79.535	75.599	1.00	0.89
ATOM	3914	HB2	SER	A	280	46.659	80.541	75.965	1.00	0.89
ATOM	3915	OG	SER	A	280	45.612	79.811	77.579	1.00	0.89
ATOM	3916	HG	SER	A	280	44.764	80.312	77.479	1.00	0.89
ATOM	3917	C	SER	A	280	48.467	78.692	76.367	1.00	0.89
ATOM	3918	O	SER	A	280	49.031	79.572	75.717	1.00	0.89
ATOM	3919	N	GLY	A	281	49.141	77.940	77.236	1.00	0.94
ATOM	3920	H	GLY	A	281	48.637	77.189	77.689	1.00	0.94
ATOM	3921	CA	GLY	A	281	50.516	78.240	77.648	1.00	0.94
ATOM	3922	HA1	GLY	A	281	50.767	77.598	78.492	1.00	0.94
ATOM	3923	HA2	GLY	A	281	50.561	79.277	77.983	1.00	0.94
ATOM	3924	C	GLY	A	281	51.604	78.053	76.587	1.00	0.94
ATOM	3925	O	GLY	A	281	52.750	78.446	76.827	1.00	0.94
ATOM	3926	N	ILE	A	282	51.266	77.486	75.422	1.00	0.62
ATOM	3927	H	ILE	A	282	50.293	77.245	75.288	1.00	0.62
ATOM	3928	CA	ILE	A	282	52.196	77.265	74.306	1.00	0.62
ATOM	3929	HA	ILE	A	282	53.135	77.761	74.535	1.00	0.62
ATOM	3930	CB	ILE	A	282	52.526	75.759	74.109	1.00	0.62
ATOM	3931	HB	ILE	A	282	51.647	75.259	73.702	1.00	0.62
ATOM	3932	CG2	ILE	A	282	53.686	75.594	73.109	1.00	0.62
ATOM	3933	1HG2	ILE	A	282	53.806	74.548	72.833	1.00	0.62
ATOM	3934	2HG2	ILE	A	282	53.494	76.155	72.197	1.00	0.62
ATOM	3935	3HG2	ILE	A	282	54.617	75.948	73.548	1.00	0.62
ATOM	3936	CG1	ILE	A	282	52.859	75.079	75.452	1.00	0.62
ATOM	3937	1HG1	ILE	A	282	51.942	75.030	76.034	1.00	0.62
ATOM	3938	2HG1	ILE	A	282	53.578	75.695	75.982	1.00	0.62
ATOM	3939	CD1	ILE	A	282	53.424	73.661	75.389	1.00	0.62
ATOM	3940	HD1	ILE	A	282	54.403	73.663	74.911	1.00	0.62
ATOM	3941	HD2	ILE	A	282	53.540	73.284	76.404	1.00	0.62
ATOM	3942	HD3	ILE	A	282	52.742	73.008	74.849	1.00	0.62
ATOM	3943	C	ILE	A	282	51.662	77.923	73.026	1.00	0.62
ATOM	3944	O	ILE	A	282	51.087	77.220	72.187	1.00	0.62
ATOM	3945	N	PRO	A	283	51.760	79.262	72.893	1.00	0.44
ATOM	3946	CD	PRO	A	283	52.227	80.221	73.888	1.00	0.44
ATOM	3947	HD1	PRO	A	283	53.313	80.267	73.865	1.00	0.44
ATOM	3948	HD2	PRO	A	283	51.873	79.992	74.889	1.00	0.44
ATOM	3949	CG	PRO	A	283	51.669	81.574	73.463	1.00	0.44
ATOM	3950	HG1	PRO	A	283	52.291	82.398	73.812	1.00	0.44
ATOM	3951	HG2	PRO	A	283	50.643	81.678	73.823	1.00	0.44
ATOM	3952	CB	PRO	A	283	51.677	81.459	71.945	1.00	0.44
ATOM	3953	HB1	PRO	A	283	52.681	81.681	71.578	1.00	0.44
ATOM	3954	HB2	PRO	A	283	50.946	82.125	71.486	1.00	0.44
ATOM	3955	CA	PRO	A	283	51.334	79.985	71.703	1.00	0.44
ATOM	3956	HA	PRO	A	283	50.254	79.889	71.643	1.00	0.44

ATOM	3957	C	PRO	A	283	51.953	79.503	70.383	1.00	0.44
ATOM	3958	O	PRO	A	283	53.157	79.253	70.358	1.00	0.44
ATOM	3959	N	ILE	A	284	51.181	79.390	69.277	1.00	0.38
ATOM	3960	H	ILE	A	284	50.168	79.343	69.317	1.00	0.38
ATOM	3961	CA	ILE	A	284	51.731	78.825	68.049	1.00	0.38
ATOM	3962	HA	ILE	A	284	52.486	78.139	68.381	1.00	0.38
ATOM	3963	CB	ILE	A	284	50.673	77.933	67.349	1.00	0.38
ATOM	3964	HB	ILE	A	284	49.897	78.569	66.919	1.00	0.38
ATOM	3965	CG2	ILE	A	284	51.328	77.129	66.211	1.00	0.38
ATOM	3966	1HG2	ILE	A	284	50.583	76.526	65.694	1.00	0.38
ATOM	3967	2HG2	ILE	A	284	51.777	77.799	65.478	1.00	0.38
ATOM	3968	3HG2	ILE	A	284	52.104	76.480	66.613	1.00	0.38
ATOM	3969	CG1	ILE	A	284	50.014	76.990	68.388	1.00	0.38
ATOM	3970	1HG1	ILE	A	284	49.376	77.594	69.026	1.00	0.38
ATOM	3971	2HG1	ILE	A	284	50.786	76.536	69.012	1.00	0.38
ATOM	3972	CD1	ILE	A	284	49.130	75.872	67.840	1.00	0.38
ATOM	3973	HD1	ILE	A	284	49.743	75.128	67.335	1.00	0.38
ATOM	3974	HD2	ILE	A	284	48.609	75.386	68.665	1.00	0.38
ATOM	3975	HD3	ILE	A	284	48.394	76.290	67.155	1.00	0.38
ATOM	3976	C	ILE	A	284	52.409	79.824	67.074	1.00	0.38
ATOM	3977	O	ILE	A	284	53.516	79.583	66.620	1.00	0.38
ATOM	3978	N	THR	A	285	51.735	80.929	66.769	1.00	0.48
ATOM	3979	H	THR	A	285	50.764	80.920	67.048	1.00	0.48
ATOM	3980	CA	THR	A	285	52.214	82.259	66.322	1.00	0.48
ATOM	3981	HA	THR	A	285	51.317	82.800	66.586	1.00	0.48
ATOM	3982	CB	THR	A	285	53.204	83.005	67.220	1.00	0.48
ATOM	3983	HB	THR	A	285	53.053	84.073	67.059	1.00	0.48
ATOM	3984	CG2	THR	A	285	52.975	82.731	68.706	1.00	0.48
ATOM	3985	1HG2	THR	A	285	53.521	83.460	69.301	1.00	0.48
ATOM	3986	2HG2	THR	A	285	51.917	82.821	68.946	1.00	0.48
ATOM	3987	3HG2	THR	A	285	53.327	81.732	68.960	1.00	0.48
ATOM	3988	OG1	THR	A	285	54.537	82.723	66.910	1.00	0.48
ATOM	3989	HG1	THR	A	285	54.794	83.284	66.132	1.00	0.48
ATOM	3990	C	THR	A	285	52.332	82.681	64.867	1.00	0.48
ATOM	3991	O	THR	A	285	51.680	83.675	64.572	1.00	0.48
ATOM	3992	N	ASP	A	286	53.087	82.064	63.955	1.00	0.50
ATOM	3993	H	ASP	A	286	53.422	81.102	64.070	1.00	0.50
ATOM	3994	CA	ASP	A	286	53.493	82.785	62.721	1.00	0.50
ATOM	3995	HA	ASP	A	286	52.772	83.540	62.440	1.00	0.50
ATOM	3996	CB	ASP	A	286	54.827	83.531	62.942	1.00	0.50
ATOM	3997	HB1	ASP	A	286	55.119	84.018	62.010	1.00	0.50
ATOM	3998	HB2	ASP	A	286	55.594	82.813	63.204	1.00	0.50
ATOM	3999	CG	ASP	A	286	54.782	84.580	64.057	1.00	0.50
ATOM	4000	OD1	ASP	A	286	55.424	84.332	65.110	1.00	0.50

ATOM	4001	OD2	ASP	A	286	54.092	85.613	63.895	1.00	0.50
ATOM	4002	C	ASP	A	286	53.562	81.719	61.622	1.00	0.50
ATOM	4003	O	ASP	A	286	54.613	81.343	61.084	1.00	0.50
ATOM	4004	N	LEU	A	287	52.409	81.076	61.454	1.00	0.41
ATOM	4005	H	LEU	A	287	51.593	81.510	61.862	1.00	0.41
ATOM	4006	CA	LEU	A	287	52.316	79.689	61.006	1.00	0.41
ATOM	4007	HA	LEU	A	287	53.320	79.275	60.902	1.00	0.41
ATOM	4008	CB	LEU	A	287	51.588	78.841	62.069	1.00	0.41
ATOM	4009	HB1	LEU	A	287	50.901	79.491	62.610	1.00	0.41
ATOM	4010	HB2	LEU	A	287	52.338	78.504	62.785	1.00	0.41
ATOM	4011	CG	LEU	A	287	50.768	77.622	61.590	1.00	0.41
ATOM	4012	HG	LEU	A	287	49.888	77.975	61.052	1.00	0.41
ATOM	4013	CD1	LEU	A	287	51.496	76.605	60.707	1.00	0.41
ATOM	4014	1HD1	LEU	A	287	50.884	75.711	60.588	1.00	0.41
ATOM	4015	2HD1	LEU	A	287	51.689	77.001	59.716	1.00	0.41
ATOM	4016	3HD1	LEU	A	287	52.444	76.336	61.168	1.00	0.41
ATOM	4017	CD2	LEU	A	287	50.295	76.858	62.822	1.00	0.41
ATOM	4018	1HD2	LEU	A	287	49.535	76.135	62.535	1.00	0.41
ATOM	4019	2HD2	LEU	A	287	51.139	76.358	63.293	1.00	0.41
ATOM	4020	3HD2	LEU	A	287	49.872	77.547	63.544	1.00	0.41
ATOM	4021	C	LEU	A	287	51.666	79.678	59.627	1.00	0.41
ATOM	4022	O	LEU	A	287	50.529	80.106	59.415	1.00	0.41
ATOM	4023	N	THR	A	288	52.426	79.201	58.659	1.00	0.37
ATOM	4024	H	THR	A	288	53.090	78.448	58.845	1.00	0.37
ATOM	4025	CA	THR	A	288	52.425	79.707	57.300	1.00	0.37
ATOM	4026	HA	THR	A	288	51.506	80.251	57.106	1.00	0.37
ATOM	4027	CB	THR	A	288	53.599	80.665	57.079	1.00	0.37
ATOM	4028	HB	THR	A	288	54.534	80.161	57.307	1.00	0.37
ATOM	4029	CG2	THR	A	288	53.619	81.237	55.667	1.00	0.37
ATOM	4030	1HG2	THR	A	288	52.667	81.712	55.437	1.00	0.37
ATOM	4031	2HG2	THR	A	288	54.423	81.968	55.585	1.00	0.37
ATOM	4032	3HG2	THR	A	288	53.807	80.439	54.955	1.00	0.37
ATOM	4033	OG1	THR	A	288	53.454	81.773	57.936	1.00	0.37
ATOM	4034	HG1	THR	A	288	53.903	81.560	58.764	1.00	0.37
ATOM	4035	C	THR	A	288	52.475	78.454	56.459	1.00	0.37
ATOM	4036	O	THR	A	288	53.307	77.572	56.665	1.00	0.37
ATOM	4037	N	ILE	A	289	51.441	78.276	55.661	1.00	0.39
ATOM	4038	H	ILE	A	289	50.831	79.063	55.465	1.00	0.39
ATOM	4039	CA	ILE	A	289	51.114	76.996	55.053	1.00	0.39
ATOM	4040	HA	ILE	A	289	51.989	76.348	55.027	1.00	0.39
ATOM	4041	CB	ILE	A	289	49.971	76.312	55.852	1.00	0.39
ATOM	4042	HB	ILE	A	289	49.473	77.072	56.449	1.00	0.39
ATOM	4043	CG2	ILE	A	289	48.884	75.662	54.978	1.00	0.39
ATOM	4044	1HG2	ILE	A	289	49.335	74.939	54.304	1.00	0.39

ATOM	4045	2HG2	ILE	A	289	48.131	75.175	55.595	1.00	0.39
ATOM	4046	3HG2	ILE	A	289	48.377	76.424	54.388	1.00	0.39
ATOM	4047	CG1	ILE	A	289	50.617	75.300	56.820	1.00	0.39
ATOM	4048	1HG1	ILE	A	289	51.420	75.800	57.360	1.00	0.39
ATOM	4049	2HG1	ILE	A	289	51.053	74.492	56.235	1.00	0.39
ATOM	4050	CD1	ILE	A	289	49.689	74.693	57.879	1.00	0.39
ATOM	4051	HD1	ILE	A	289	50.275	74.053	58.536	1.00	0.39
ATOM	4052	HD2	ILE	A	289	49.254	75.484	58.483	1.00	0.39
ATOM	4053	HD3	ILE	A	289	48.904	74.098	57.416	1.00	0.39
ATOM	4054	C	ILE	A	289	50.770	77.358	53.616	1.00	0.39
ATOM	4055	O	ILE	A	289	49.928	78.221	53.380	1.00	0.39
ATOM	4056	N	GLU	A	290	51.513	76.810	52.665	1.00	0.41
ATOM	4057	H	GLU	A	290	52.023	75.944	52.853	1.00	0.41
ATOM	4058	CA	GLU	A	290	51.736	77.462	51.372	1.00	0.41
ATOM	4059	HA	GLU	A	290	50.937	78.170	51.148	1.00	0.41
ATOM	4060	CB	GLU	A	290	53.098	78.175	51.302	1.00	0.41
ATOM	4061	HB1	GLU	A	290	53.134	78.750	50.375	1.00	0.41
ATOM	4062	HB2	GLU	A	290	53.863	77.407	51.211	1.00	0.41
ATOM	4063	CG	GLU	A	290	53.501	79.102	52.461	1.00	0.41
ATOM	4064	HG1	GLU	A	290	52.841	78.974	53.316	1.00	0.41
ATOM	4065	HG2	GLU	A	290	53.415	80.141	52.136	1.00	0.41
ATOM	4066	CD	GLU	A	290	54.946	78.799	52.875	1.00	0.41
ATOM	4067	OE1	GLU	A	290	55.841	78.929	52.004	1.00	0.41
ATOM	4068	OE2	GLU	A	290	55.169	78.362	54.031	1.00	0.41
ATOM	4069	C	GLU	A	290	51.742	76.350	50.323	1.00	0.41
ATOM	4070	O	GLU	A	290	52.504	75.386	50.420	1.00	0.41
ATOM	4071	N	ASN	A	291	50.847	76.411	49.348	1.00	0.52
ATOM	4072	H	ASN	A	291	50.226	77.212	49.311	1.00	0.52
ATOM	4073	CA	ASN	A	291	50.300	75.170	48.825	1.00	0.52
ATOM	4074	HA	ASN	A	291	49.340	75.488	48.419	1.00	0.52
ATOM	4075	CB	ASN	A	291	51.064	74.599	47.617	1.00	0.52
ATOM	4076	HB1	ASN	A	291	51.912	74.003	47.947	1.00	0.52
ATOM	4077	HB2	ASN	A	291	51.420	75.421	46.996	1.00	0.52
ATOM	4078	CG	ASN	A	291	50.102	73.756	46.801	1.00	0.52
ATOM	4079	OD1	ASN	A	291	50.085	72.535	46.885	1.00	0.52
ATOM	4080	ND2	ASN	A	291	49.194	74.380	46.090	1.00	0.52
ATOM	4081	1HD2	ASN	A	291	49.202	75.408	46.090	1.00	0.52
ATOM	4082	2HD2	ASN	A	291	48.474	73.845	45.649	1.00	0.52
ATOM	4083	C	ASN	A	291	49.843	74.201	49.941	1.00	0.52
ATOM	4084	O	ASN	A	291	49.183	74.641	50.877	1.00	0.52
ATOM	4085	N	ILE	A	292	50.122	72.909	49.802	1.00	0.48
ATOM	4086	H	ILE	A	292	50.547	72.610	48.931	1.00	0.48
ATOM	4087	CA	ILE	A	292	50.106	71.819	50.781	1.00	0.48
ATOM	4088	HA	ILE	A	292	51.142	71.502	50.692	1.00	0.48

ATOM	4089	CB	ILE	A	292	50.048	72.084	52.308	1.00	0.48
ATOM	4090	HB	ILE	A	292	50.416	71.162	52.759	1.00	0.48
ATOM	4091	CG2	ILE	A	292	51.080	73.148	52.755	1.00	0.48
ATOM	4092	1HG2	ILE	A	292	51.301	73.052	53.815	1.00	0.48
ATOM	4093	2HG2	ILE	A	292	51.997	73.038	52.180	1.00	0.48
ATOM	4094	3HG2	ILE	A	292	50.697	74.149	52.594	1.00	0.48
ATOM	4095	CG1	ILE	A	292	48.678	72.327	52.972	1.00	0.48
ATOM	4096	1HG1	ILE	A	292	48.090	72.988	52.352	1.00	0.48
ATOM	4097	2HG1	ILE	A	292	48.819	72.806	53.939	1.00	0.48
ATOM	4098	CD1	ILE	A	292	47.898	71.037	53.230	1.00	0.48
ATOM	4099	HD1	ILE	A	292	48.353	70.482	54.048	1.00	0.48
ATOM	4100	HD2	ILE	A	292	46.869	71.275	53.481	1.00	0.48
ATOM	4101	HD3	ILE	A	292	47.888	70.419	52.343	1.00	0.48
ATOM	4102	C	ILE	A	292	49.431	70.560	50.239	1.00	0.48
ATOM	4103	O	ILE	A	292	50.024	69.469	50.316	1.00	0.48
ATOM	4104	N	SER	A	293	48.334	70.754	49.524	1.00	0.65
ATOM	4105	H	SER	A	293	47.861	71.631	49.622	1.00	0.65
ATOM	4106	CA	SER	A	293	47.615	69.736	48.778	1.00	0.65
ATOM	4107	HA	SER	A	293	46.754	70.228	48.270	1.00	0.65
ATOM	4108	CB	SER	A	293	48.447	69.118	47.649	1.00	0.65
ATOM	4109	HB1	SER	A	293	47.925	68.269	47.224	1.00	0.65
ATOM	4110	HB2	SER	A	293	49.404	68.776	48.022	1.00	0.65
ATOM	4111	OG	SER	A	293	48.643	70.044	46.594	1.00	0.65
ATOM	4112	HG	SER	A	293	49.094	70.837	46.932	1.00	0.65
ATOM	4113	C	SER	A	293	46.929	68.608	49.764	1.00	0.65
ATOM	4114	O	SER	A	293	46.563	69.007	50.847	1.00	0.65
ATOM	4115	N	GLY	A	294	46.613	67.279	49.549	1.00	0.75
ATOM	4116	H	GLY	A	294	46.181	66.982	50.426	1.00	0.75
ATOM	4117	CA	GLY	A	294	46.792	66.157	48.540	1.00	0.75
ATOM	4118	HA1	GLY	A	294	47.867	66.082	48.308	1.00	0.75
ATOM	4119	HA2	GLY	A	294	46.291	66.475	47.610	1.00	0.75
ATOM	4120	C	GLY	A	294	46.343	64.730	48.831	1.00	0.75
ATOM	4121	O	GLY	A	294	46.996	63.796	48.469	1.00	0.75
ATOM	4122	N	SER	A	295	45.204	64.641	49.552	1.00	0.78
ATOM	4123	H	SER	A	295	44.784	65.502	49.879	1.00	0.78
ATOM	4124	CA	SER	A	295	44.308	63.479	49.705	1.00	0.78
ATOM	4125	HA	SER	A	295	43.315	63.931	49.686	1.00	0.78
ATOM	4126	CB	SER	A	295	44.281	62.473	48.538	1.00	0.78
ATOM	4127	HB1	SER	A	295	44.152	63.019	47.601	1.00	0.78
ATOM	4128	HB2	SER	A	295	43.412	61.825	48.663	1.00	0.78
ATOM	4129	OG	SER	A	295	45.428	61.660	48.441	1.00	0.78
ATOM	4130	HG	SER	A	295	46.176	62.284	48.387	1.00	0.78
ATOM	4131	C	SER	A	295	44.429	62.779	51.067	1.00	0.78
ATOM	4132	O	SER	A	295	45.373	62.042	51.386	1.00	0.78

ATOM	4133	N	GLY	A	296	43.378	62.944	51.868	1.00	0.96
ATOM	4134	H	GLY	A	296	42.660	63.608	51.591	1.00	0.96
ATOM	4135	CA	GLY	A	296	43.009	61.975	52.895	1.00	0.96
ATOM	4136	HA1	GLY	A	296	42.262	62.416	53.553	1.00	0.96
ATOM	4137	HA2	GLY	A	296	43.888	61.736	53.493	1.00	0.96
ATOM	4138	C	GLY	A	296	42.435	60.676	52.328	1.00	0.96
ATOM	4139	O	GLY	A	296	42.176	60.549	51.129	1.00	0.96
ATOM	4140	N	ALA	A	297	42.247	59.698	53.208	1.00	1.10
ATOM	4141	H	ALA	A	297	42.542	59.840	54.167	1.00	1.10
ATOM	4142	CA	ALA	A	297	41.683	58.403	52.865	1.00	1.10
ATOM	4143	HA	ALA	A	297	42.284	57.981	52.058	1.00	1.10
ATOM	4144	CB	ALA	A	297	41.834	57.482	54.077	1.00	1.10
ATOM	4145	HB1	ALA	A	297	41.422	56.502	53.844	1.00	1.10
ATOM	4146	HB2	ALA	A	297	42.888	57.369	54.330	1.00	1.10
ATOM	4147	HB3	ALA	A	297	41.307	57.901	54.936	1.00	1.10
ATOM	4148	C	ALA	A	297	40.240	58.500	52.365	1.00	1.10
ATOM	4149	O	ALA	A	297	39.405	59.159	52.975	1.00	1.10
ATOM	4150	N	VAL	A	298	39.959	57.793	51.261	1.00	2.38
ATOM	4151	H	VAL	A	298	40.708	57.286	50.819	1.00	2.38
ATOM	4152	CA	VAL	A	298	38.582	57.533	50.806	1.00	2.38
ATOM	4153	HA	VAL	A	298	38.067	58.493	50.733	1.00	2.38
ATOM	4154	CB	VAL	A	298	38.533	56.855	49.421	1.00	2.38
ATOM	4155	HB	VAL	A	298	37.493	56.622	49.190	1.00	2.38
ATOM	4156	CG1	VAL	A	298	39.043	57.802	48.326	1.00	2.38
ATOM	4157	1HG1	VAL	A	298	38.941	57.328	47.350	1.00	2.38
ATOM	4158	2HG1	VAL	A	298	38.454	58.720	48.341	1.00	2.38
ATOM	4159	3HG1	VAL	A	298	40.090	58.052	48.500	1.00	2.38
ATOM	4160	CG2	VAL	A	298	39.342	55.553	49.335	1.00	2.38
ATOM	4161	1HG2	VAL	A	298	39.222	55.109	48.348	1.00	2.38
ATOM	4162	2HG2	VAL	A	298	40.402	55.735	49.511	1.00	2.38
ATOM	4163	3HG2	VAL	A	298	38.983	54.835	50.073	1.00	2.38
ATOM	4164	C	VAL	A	298	37.803	56.712	51.831	1.00	2.38
ATOM	4165	O	VAL	A	298	36.604	56.931	51.996	1.00	2.38
ATOM	4166	N	ASP	A	299	38.502	55.851	52.575	1.00	2.51
ATOM	4167	H	ASP	A	299	39.427	55.587	52.261	1.00	2.51
ATOM	4168	CA	ASP	A	299	38.180	55.426	53.936	1.00	2.51
ATOM	4169	HA	ASP	A	299	37.214	54.918	53.909	1.00	2.51
ATOM	4170	CB	ASP	A	299	39.205	54.383	54.426	1.00	2.51
ATOM	4171	HB1	ASP	A	299	38.833	53.934	55.349	1.00	2.51
ATOM	4172	HB2	ASP	A	299	40.149	54.874	54.658	1.00	2.51
ATOM	4173	CG	ASP	A	299	39.470	53.280	53.386	1.00	2.51
ATOM	4174	OD1	ASP	A	299	40.246	53.565	52.440	1.00	2.51
ATOM	4175	OD2	ASP	A	299	38.894	52.175	53.515	1.00	2.51
ATOM	4176	C	ASP	A	299	38.026	56.662	54.840	1.00	2.51

ATOM	4177	O	ASP	A	299	38.960	57.123	55.502	1.00	2.51
ATOM	4178	N	SER	A	300	36.847	57.284	54.729	1.00	2.92
ATOM	4179	H	SER	A	300	36.165	56.843	54.129	1.00	2.92
ATOM	4180	CA	SER	A	300	36.572	58.670	55.140	1.00	2.92
ATOM	4181	HA	SER	A	300	37.301	59.321	54.657	1.00	2.92
ATOM	4182	CB	SER	A	300	35.173	59.087	54.673	1.00	2.92
ATOM	4183	HB1	SER	A	300	35.015	60.141	54.909	1.00	2.92
ATOM	4184	HB2	SER	A	300	34.430	58.498	55.214	1.00	2.92
ATOM	4185	OG	SER	A	300	34.984	58.892	53.278	1.00	2.92
ATOM	4186	HG	SER	A	300	35.682	58.308	52.934	1.00	2.92
ATOM	4187	C	SER	A	300	36.691	58.908	56.648	1.00	2.92
ATOM	4188	O	SER	A	300	36.591	60.042	57.105	1.00	2.92
ATOM	4189	N	ASP	A	301	36.958	57.839	57.399	1.00	2.18
ATOM	4190	H	ASP	A	301	36.921	56.933	56.944	1.00	2.18
ATOM	4191	CA	ASP	A	301	37.585	57.821	58.716	1.00	2.18
ATOM	4192	HA	ASP	A	301	36.824	58.087	59.450	1.00	2.18
ATOM	4193	CB	ASP	A	301	38.041	56.385	59.018	1.00	2.18
ATOM	4194	HB1	ASP	A	301	38.428	56.342	60.038	1.00	2.18
ATOM	4195	HB2	ASP	A	301	38.851	56.114	58.338	1.00	2.18
ATOM	4196	CG	ASP	A	301	36.894	55.377	58.860	1.00	2.18
ATOM	4197	OD1	ASP	A	301	36.595	55.017	57.695	1.00	2.18
ATOM	4198	OD2	ASP	A	301	36.300	54.993	59.895	1.00	2.18
ATOM	4199	C	ASP	A	301	38.719	58.842	58.868	1.00	2.18
ATOM	4200	O	ASP	A	301	38.884	59.443	59.934	1.00	2.18
ATOM	4201	N	GLY	A	302	39.451	59.101	57.781	1.00	1.43
ATOM	4202	H	GLY	A	302	39.282	58.551	56.944	1.00	1.43
ATOM	4203	CA	GLY	A	302	40.435	60.175	57.756	1.00	1.43
ATOM	4204	HA1	GLY	A	302	41.124	59.998	56.932	1.00	1.43
ATOM	4205	HA2	GLY	A	302	41.008	60.129	58.682	1.00	1.43
ATOM	4206	C	GLY	A	302	39.876	61.576	57.609	1.00	1.43
ATOM	4207	O	GLY	A	302	38.999	61.875	56.802	1.00	1.43
ATOM	4208	N	TYR	A	303	40.491	62.484	58.345	1.00	0.82
ATOM	4209	H	TYR	A	303	41.245	62.161	58.943	1.00	0.82
ATOM	4210	CA	TYR	A	303	39.883	63.727	58.751	1.00	0.82
ATOM	4211	HA	TYR	A	303	38.896	63.810	58.292	1.00	0.82
ATOM	4212	CB	TYR	A	303	39.692	63.531	60.275	1.00	0.82
ATOM	4213	HB1	TYR	A	303	40.634	63.331	60.776	1.00	0.82
ATOM	4214	HB2	TYR	A	303	39.014	62.696	60.464	1.00	0.82
ATOM	4215	CG	TYR	A	303	39.112	64.771	60.809	1.00	0.82
ATOM	4216	CD1	TYR	A	303	37.851	65.071	60.300	1.00	0.82
ATOM	4217	HD1	TYR	A	303	37.139	64.280	60.117	1.00	0.82
ATOM	4218	CE1	TYR	A	303	37.661	66.326	59.726	1.00	0.82
ATOM	4219	HE1	TYR	A	303	36.745	66.514	59.219	1.00	0.82
ATOM	4220	CZ	TYR	A	303	38.680	67.296	59.759	1.00	0.82

ATOM	4221	OH	TYR	A	303	38.517	68.494	59.138	1.00	0.82
ATOM	4222	HH	TYR	A	303	39.100	69.209	59.455	1.00	0.82
ATOM	4223	CE2	TYR	A	303	39.844	67.017	60.494	1.00	0.82
ATOM	4224	HE2	TYR	A	303	40.654	67.688	60.526	1.00	0.82
ATOM	4225	CD2	TYR	A	303	40.053	65.764	61.057	1.00	0.82
ATOM	4226	HD2	TYR	A	303	41.039	65.497	61.400	1.00	0.82
ATOM	4227	C	TYR	A	303	40.758	64.897	58.205	1.00	0.82
ATOM	4228	O	TYR	A	303	41.988	64.924	58.321	1.00	0.82
ATOM	4229	N	ASN	A	304	40.177	65.828	57.437	1.00	0.57
ATOM	4230	H	ASN	A	304	39.159	65.833	57.359	1.00	0.57
ATOM	4231	CA	ASN	A	304	40.946	66.634	56.466	1.00	0.57
ATOM	4232	HA	ASN	A	304	41.693	65.983	56.012	1.00	0.57
ATOM	4233	CB	ASN	A	304	39.999	67.134	55.350	1.00	0.57
ATOM	4234	HB1	ASN	A	304	40.397	68.064	54.944	1.00	0.57
ATOM	4235	HB2	ASN	A	304	39.014	67.368	55.747	1.00	0.57
ATOM	4236	CG	ASN	A	304	39.852	66.204	54.154	1.00	0.57
ATOM	4237	OD1	ASN	A	304	39.327	66.576	53.123	1.00	0.57
ATOM	4238	ND2	ASN	A	304	40.383	65.002	54.184	1.00	0.57
ATOM	4239	1HD2	ASN	A	304	40.637	64.579	55.055	1.00	0.57
ATOM	4240	2HD2	ASN	A	304	40.409	64.521	53.297	1.00	0.57
ATOM	4241	C	ASN	A	304	41.788	67.802	56.987	1.00	0.57
ATOM	4242	O	ASN	A	304	42.848	68.067	56.409	1.00	0.57
ATOM	4243	N	ILE	A	305	41.331	68.508	58.023	1.00	0.69
ATOM	4244	H	ILE	A	305	40.402	68.277	58.349	1.00	0.69
ATOM	4245	CA	ILE	A	305	42.036	69.604	58.717	1.00	0.69
ATOM	4246	HA	ILE	A	305	43.090	69.358	58.802	1.00	0.69
ATOM	4247	CB	ILE	A	305	41.906	70.951	57.930	1.00	0.69
ATOM	4248	HB	ILE	A	305	40.851	71.182	57.875	1.00	0.69
ATOM	4249	CG2	ILE	A	305	42.587	72.107	58.693	1.00	0.69
ATOM	4250	1HG2	ILE	A	305	42.303	73.054	58.242	1.00	0.69
ATOM	4251	2HG2	ILE	A	305	42.258	72.160	59.727	1.00	0.69
ATOM	4252	3HG2	ILE	A	305	43.666	71.996	58.656	1.00	0.69
ATOM	4253	CG1	ILE	A	305	42.393	70.933	56.461	1.00	0.69
ATOM	4254	1HG1	ILE	A	305	41.746	70.264	55.896	1.00	0.69
ATOM	4255	2HG1	ILE	A	305	43.413	70.557	56.424	1.00	0.69
ATOM	4256	CD1	ILE	A	305	42.354	72.272	55.712	1.00	0.69
ATOM	4257	HD1	ILE	A	305	42.443	72.090	54.641	1.00	0.69
ATOM	4258	HD2	ILE	A	305	41.418	72.790	55.914	1.00	0.69
ATOM	4259	HD3	ILE	A	305	43.188	72.898	56.019	1.00	0.69
ATOM	4260	C	ILE	A	305	41.441	69.830	60.104	1.00	0.69
ATOM	4261	O	ILE	A	305	40.272	70.187	60.206	1.00	0.69
ATOM	4262	N	VAL	A	306	42.183	69.583	61.188	1.00	0.81
ATOM	4263	H	VAL	A	306	43.174	69.371	61.104	1.00	0.81
ATOM	4264	CA	VAL	A	306	41.679	69.792	62.550	1.00	0.81

ATOM	4265	HA	VAL A 306	40.710	70.287	62.489	1.00	0.81
ATOM	4266	CB	VAL A 306	41.442	68.479	63.323	1.00	0.81
ATOM	4267	HB	VAL A 306	41.082	67.728	62.634	1.00	0.81
ATOM	4268	CG1	VAL A 306	42.685	67.899	63.980	1.00	0.81
ATOM	4269	1HG1	VAL A 306	42.473	66.910	64.384	1.00	0.81
ATOM	4270	2HG1	VAL A 306	43.473	67.827	63.233	1.00	0.81
ATOM	4271	3HG1	VAL A 306	43.008	68.545	64.796	1.00	0.81
ATOM	4272	CG2	VAL A 306	40.346	68.663	64.369	1.00	0.81
ATOM	4273	1HG2	VAL A 306	40.172	67.725	64.897	1.00	0.81
ATOM	4274	2HG2	VAL A 306	40.629	69.427	65.088	1.00	0.81
ATOM	4275	3HG2	VAL A 306	39.416	68.963	63.883	1.00	0.81
ATOM	4276	C	VAL A 306	42.623	70.765	63.228	1.00	0.81
ATOM	4277	O	VAL A 306	43.843	70.653	63.129	1.00	0.81
ATOM	4278	N	ILE A 307	42.041	71.781	63.843	1.00	0.63
ATOM	4279	H	ILE A 307	41.036	71.776	63.945	1.00	0.63
ATOM	4280	CA	ILE A 307	42.753	72.886	64.476	1.00	0.63
ATOM	4281	HA	ILE A 307	43.818	72.673	64.550	1.00	0.63
ATOM	4282	CB	ILE A 307	42.556	74.202	63.698	1.00	0.63
ATOM	4283	HB	ILE A 307	41.482	74.356	63.593	1.00	0.63
ATOM	4284	CG2	ILE A 307	43.146	75.372	64.516	1.00	0.63
ATOM	4285	1HG2	ILE A 307	43.230	76.274	63.914	1.00	0.63
ATOM	4286	2HG2	ILE A 307	42.490	75.602	65.358	1.00	0.63
ATOM	4287	3HG2	ILE A 307	44.129	75.108	64.904	1.00	0.63
ATOM	4288	CG1	ILE A 307	43.166	74.138	62.281	1.00	0.63
ATOM	4289	1HG1	ILE A 307	42.912	73.188	61.814	1.00	0.63
ATOM	4290	2HG1	ILE A 307	44.252	74.196	62.350	1.00	0.63
ATOM	4291	CD1	ILE A 307	42.646	75.244	61.352	1.00	0.63
ATOM	4292	HD1	ILE A 307	43.032	75.088	60.347	1.00	0.63
ATOM	4293	HD2	ILE A 307	41.558	75.209	61.308	1.00	0.63
ATOM	4294	HD3	ILE A 307	42.962	76.227	61.698	1.00	0.63
ATOM	4295	C	ILE A 307	42.180	72.999	65.874	1.00	0.63
ATOM	4296	O	ILE A 307	40.959	73.107	65.938	1.00	0.63
ATOM	4297	N	VAL A 308	42.960	72.927	66.968	1.00	0.64
ATOM	4298	H	VAL A 308	43.963	72.769	66.906	1.00	0.64
ATOM	4299	CA	VAL A 308	42.277	72.766	68.251	1.00	0.64
ATOM	4300	HA	VAL A 308	41.260	73.153	68.201	1.00	0.64
ATOM	4301	CB	VAL A 308	42.192	71.284	68.719	1.00	0.64
ATOM	4302	HB	VAL A 308	43.066	71.018	69.312	1.00	0.64
ATOM	4303	CG1	VAL A 308	40.920	71.074	69.554	1.00	0.64
ATOM	4304	1HG1	VAL A 308	40.931	70.081	70.005	1.00	0.64
ATOM	4305	2HG1	VAL A 308	40.867	71.808	70.353	1.00	0.64
ATOM	4306	3HG1	VAL A 308	40.027	71.173	68.935	1.00	0.64
ATOM	4307	CG2	VAL A 308	42.095	70.261	67.577	1.00	0.64
ATOM	4308	1HG2	VAL A 308	42.000	69.257	67.990	1.00	0.64

ATOM	4309	2HG2	VAL	A	308	41.223	70.481	66.963	1.00	0.64
ATOM	4310	3HG2	VAL	A	308	42.997	70.293	66.964	1.00	0.64
ATOM	4311	C	VAL	A	308	42.998	73.691	69.205	1.00	0.64
ATOM	4312	O	VAL	A	308	43.639	73.254	70.147	1.00	0.64
ATOM	4313	N	CYS	A	309	42.985	74.978	68.858	1.00	0.88
ATOM	4314	H	CYS	A	309	42.352	75.276	68.128	1.00	0.88
ATOM	4315	CA	CYS	A	309	43.699	76.003	69.588	1.00	0.88
ATOM	4316	HA	CYS	A	309	44.676	75.603	69.857	1.00	0.88
ATOM	4317	CB	CYS	A	309	43.906	77.241	68.694	1.00	0.88
ATOM	4318	HB1	CYS	A	309	43.831	78.136	69.312	1.00	0.88
ATOM	4319	HB2	CYS	A	309	43.105	77.293	67.954	1.00	0.88
ATOM	4320	SG	CYS	A	309	45.519	77.307	67.859	1.00	0.88
ATOM	4321	C	CYS	A	309	42.970	76.390	70.876	1.00	0.88
ATOM	4322	O	CYS	A	309	41.741	76.446	70.933	1.00	0.88
ATOM	4323	N	GLY	A	310	43.749	76.763	71.885	1.00	0.87
ATOM	4324	H	GLY	A	310	44.747	76.691	71.745	1.00	0.87
ATOM	4325	CA	GLY	A	310	43.293	77.521	73.030	1.00	0.87
ATOM	4326	HA1	GLY	A	310	44.084	77.576	73.777	1.00	0.87
ATOM	4327	HA2	GLY	A	310	42.436	77.028	73.477	1.00	0.87
ATOM	4328	C	GLY	A	310	42.880	78.946	72.660	1.00	0.87
ATOM	4329	O	GLY	A	310	43.310	79.523	71.655	1.00	0.87
ATOM	4330	N	ASP	A	311	42.084	79.518	73.549	1.00	0.97
ATOM	4331	H	ASP	A	311	41.938	78.968	74.393	1.00	0.97
ATOM	4332	CA	ASP	A	311	41.930	80.952	73.771	1.00	0.97
ATOM	4333	HA	ASP	A	311	41.085	81.321	73.191	1.00	0.97
ATOM	4334	CB	ASP	A	311	41.614	81.113	75.282	1.00	0.97
ATOM	4335	HB1	ASP	A	311	40.633	80.676	75.476	1.00	0.97
ATOM	4336	HB2	ASP	A	311	41.546	82.177	75.515	1.00	0.97
ATOM	4337	CG	ASP	A	311	42.643	80.438	76.232	1.00	0.97
ATOM	4338	OD1	ASP	A	311	42.771	79.191	76.168	1.00	0.97
ATOM	4339	OD2	ASP	A	311	43.278	81.137	77.056	1.00	0.97
ATOM	4340	C	ASP	A	311	43.178	81.798	73.445	1.00	0.97
ATOM	4341	O	ASP	A	311	44.231	81.628	74.047	1.00	0.97
ATOM	4342	N	ASP	A	312	43.050	82.698	72.466	1.00	1.15
ATOM	4343	H	ASP	A	312	42.123	82.803	72.093	1.00	1.15
ATOM	4344	CA	ASP	A	312	44.096	83.534	71.834	1.00	1.15
ATOM	4345	HA	ASP	A	312	43.656	83.859	70.892	1.00	1.15
ATOM	4346	CB	ASP	A	312	44.325	84.814	72.658	1.00	1.15
ATOM	4347	HB1	ASP	A	312	45.042	84.607	73.455	1.00	1.15
ATOM	4348	HB2	ASP	A	312	43.383	85.118	73.120	1.00	1.15
ATOM	4349	CG	ASP	A	312	44.813	85.979	71.785	1.00	1.15
ATOM	4350	OD1	ASP	A	312	45.763	86.675	72.208	1.00	1.15
ATOM	4351	OD2	ASP	A	312	44.195	86.182	70.711	1.00	1.15
ATOM	4352	C	ASP	A	312	45.421	82.852	71.415	1.00	1.15

ATOM	4353	O	ASP	A	312	46.265	83.448	70.745	1.00	1.15
ATOM	4354	N	ALA	A	313	45.593	81.561	71.708	1.00	0.89
ATOM	4355	H	ALA	A	313	44.846	81.116	72.230	1.00	0.89
ATOM	4356	CA	ALA	A	313	46.889	80.892	71.746	1.00	0.89
ATOM	4357	HA	ALA	A	313	47.601	81.584	72.199	1.00	0.89
ATOM	4358	CB	ALA	A	313	46.747	79.693	72.681	1.00	0.89
ATOM	4359	HB1	ALA	A	313	47.718	79.231	72.852	1.00	0.89
ATOM	4360	HB2	ALA	A	313	46.357	80.037	73.635	1.00	0.89
ATOM	4361	HB3	ALA	A	313	46.048	78.973	72.260	1.00	0.89
ATOM	4362	C	ALA	A	313	47.451	80.531	70.353	1.00	0.89
ATOM	4363	O	ALA	A	313	48.329	79.674	70.223	1.00	0.89
ATOM	4364	N	CYS	A	314	46.943	81.166	69.296	1.00	0.70
ATOM	4365	H	CYS	A	314	46.322	81.940	69.509	1.00	0.70
ATOM	4366	CA	CYS	A	314	47.026	80.682	67.927	1.00	0.70
ATOM	4367	HA	CYS	A	314	47.576	79.740	67.914	1.00	0.70
ATOM	4368	CB	CYS	A	314	45.584	80.374	67.478	1.00	0.70
ATOM	4369	HB1	CYS	A	314	45.204	81.203	66.880	1.00	0.70
ATOM	4370	HB2	CYS	A	314	44.937	80.290	68.354	1.00	0.70
ATOM	4371	SG	CYS	A	314	45.358	78.848	66.535	1.00	0.70
ATOM	4372	C	CYS	A	314	47.770	81.656	66.998	1.00	0.70
ATOM	4373	O	CYS	A	314	48.797	81.277	66.439	1.00	0.70
ATOM	4374	N	SER	A	315	47.346	82.926	66.960	1.00	0.72
ATOM	4375	H	SER	A	315	46.514	83.148	67.485	1.00	0.72
ATOM	4376	CA	SER	A	315	48.023	84.067	66.316	1.00	0.72
ATOM	4377	HA	SER	A	315	47.351	84.906	66.497	1.00	0.72
ATOM	4378	CB	SER	A	315	49.309	84.433	67.083	1.00	0.72
ATOM	4379	HB1	SER	A	315	50.163	84.414	66.415	1.00	0.72
ATOM	4380	HB2	SER	A	315	49.489	83.730	67.898	1.00	0.72
ATOM	4381	OG	SER	A	315	49.216	85.737	67.613	1.00	0.72
ATOM	4382	HG	SER	A	315	48.698	85.717	68.428	1.00	0.72
ATOM	4383	C	SER	A	315	48.132	84.078	64.788	1.00	0.72
ATOM	4384	O	SER	A	315	47.346	83.431	64.100	1.00	0.72
ATOM	4385	N	ASN	A	316	49.008	84.939	64.269	1.00	0.60
ATOM	4386	H	ASN	A	316	49.609	85.410	64.933	1.00	0.60
ATOM	4387	CA	ASN	A	316	49.295	85.257	62.868	1.00	0.60
ATOM	4388	HA	ASN	A	316	48.441	85.801	62.463	1.00	0.60
ATOM	4389	CB	ASN	A	316	50.540	86.194	62.811	1.00	0.60
ATOM	4390	HB1	ASN	A	316	50.535	86.747	61.874	1.00	0.60
ATOM	4391	HB2	ASN	A	316	51.447	85.590	62.811	1.00	0.60
ATOM	4392	CG	ASN	A	316	50.703	87.183	63.953	1.00	0.60
ATOM	4393	OD1	ASN	A	316	49.769	87.859	64.355	1.00	0.60
ATOM	4394	ND2	ASN	A	316	51.879	87.278	64.528	1.00	0.60
ATOM	4395	1HD2	ASN	A	316	52.656	86.671	64.236	1.00	0.60
ATOM	4396	2HD2	ASN	A	316	51.960	87.891	65.311	1.00	0.60

ATOM	4397	C	ASN	A	316	49.532	84.012	61.989	1.00	0.60
ATOM	4398	O	ASN	A	316	50.655	83.597	61.705	1.00	0.60
ATOM	4399	N	TRP	A	317	48.474	83.353	61.547	1.00	0.46
ATOM	4400	H	TRP	A	317	47.561	83.584	61.908	1.00	0.46
ATOM	4401	CA	TRP	A	317	48.621	82.331	60.517	1.00	0.46
ATOM	4402	HA	TRP	A	317	49.608	81.884	60.585	1.00	0.46
ATOM	4403	CB	TRP	A	317	47.609	81.197	60.734	1.00	0.46
ATOM	4404	HB1	TRP	A	317	47.672	80.517	59.884	1.00	0.46
ATOM	4405	HB2	TRP	A	317	46.605	81.621	60.734	1.00	0.46
ATOM	4406	CG	TRP	A	317	47.781	80.365	61.982	1.00	0.46
ATOM	4407	CD1	TRP	A	317	48.441	80.718	63.112	1.00	0.46
ATOM	4408	HD1	TRP	A	317	48.961	81.651	63.280	1.00	0.46
ATOM	4409	NE1	TRP	A	317	48.282	79.754	64.080	1.00	0.46
ATOM	4410	HE1	TRP	A	317	48.615	79.892	65.029	1.00	0.46
ATOM	4411	CE2	TRP	A	317	47.547	78.691	63.616	1.00	0.46
ATOM	4412	CZ2	TRP	A	317	47.132	77.488	64.197	1.00	0.46
ATOM	4413	HZ2	TRP	A	317	47.400	77.258	65.215	1.00	0.46
ATOM	4414	CH2	TRP	A	317	46.352	76.598	63.444	1.00	0.46
ATOM	4415	HH2	TRP	A	317	46.027	75.665	63.876	1.00	0.46
ATOM	4416	CZ3	TRP	A	317	45.996	76.926	62.128	1.00	0.46
ATOM	4417	HZ3	TRP	A	317	45.379	76.251	61.552	1.00	0.46
ATOM	4418	CE3	TRP	A	317	46.437	78.128	61.550	1.00	0.46
ATOM	4419	HE3	TRP	A	317	46.166	78.367	60.539	1.00	0.46
ATOM	4420	CD2	TRP	A	317	47.227	79.044	62.271	1.00	0.46
ATOM	4421	C	TRP	A	317	48.514	82.986	59.143	1.00	0.46
ATOM	4422	O	TRP	A	317	48.016	84.102	58.991	1.00	0.46
ATOM	4423	N	THR	A	318	48.996	82.296	58.123	1.00	0.46
ATOM	4424	H	THR	A	318	49.494	81.437	58.336	1.00	0.46
ATOM	4425	CA	THR	A	318	48.872	82.695	56.721	1.00	0.46
ATOM	4426	HA	THR	A	318	47.951	83.262	56.585	1.00	0.46
ATOM	4427	CB	THR	A	318	50.040	83.600	56.285	1.00	0.46
ATOM	4428	HB	THR	A	318	50.991	83.121	56.523	1.00	0.46
ATOM	4429	CG2	THR	A	318	50.007	83.975	54.801	1.00	0.46
ATOM	4430	1HG2	THR	A	318	50.800	84.695	54.596	1.00	0.46
ATOM	4431	2HG2	THR	A	318	50.177	83.094	54.183	1.00	0.46
ATOM	4432	3HG2	THR	A	318	49.044	84.421	54.549	1.00	0.46
ATOM	4433	OG1	THR	A	318	49.941	84.823	56.981	1.00	0.46
ATOM	4434	HG1	THR	A	318	49.557	84.637	57.849	1.00	0.46
ATOM	4435	C	THR	A	318	48.777	81.437	55.882	1.00	0.46
ATOM	4436	O	THR	A	318	49.782	80.804	55.557	1.00	0.46
ATOM	4437	N	TRP	A	319	47.545	81.010	55.615	1.00	0.55
ATOM	4438	H	TRP	A	319	46.751	81.507	56.001	1.00	0.55
ATOM	4439	CA	TRP	A	319	47.281	79.826	54.807	1.00	0.55
ATOM	4440	HA	TRP	A	319	48.170	79.198	54.759	1.00	0.55

ATOM	4441	CB	TRP	A	319	46.180	79.003	55.471	1.00	0.55
ATOM	4442	HB1	TRP	A	319	45.854	78.251	54.756	1.00	0.55
ATOM	4443	HB2	TRP	A	319	45.320	79.641	55.677	1.00	0.55
ATOM	4444	CG	TRP	A	319	46.568	78.277	56.727	1.00	0.55
ATOM	4445	CD1	TRP	A	319	47.606	78.552	57.556	1.00	0.55
ATOM	4446	HD1	TRP	A	319	48.321	79.353	57.430	1.00	0.55
ATOM	4447	NE1	TRP	A	319	47.672	77.610	58.557	1.00	0.55
ATOM	4448	HE1	TRP	A	319	48.381	77.618	59.281	1.00	0.55
ATOM	4449	CE2	TRP	A	319	46.684	76.662	58.414	1.00	0.55
ATOM	4450	CZ2	TRP	A	319	46.358	75.508	59.134	1.00	0.55
ATOM	4451	HZ2	TRP	A	319	46.963	75.213	59.974	1.00	0.55
ATOM	4452	CH2	TRP	A	319	45.230	74.762	58.760	1.00	0.55
ATOM	4453	HH2	TRP	A	319	44.957	73.876	59.314	1.00	0.55
ATOM	4454	CZ3	TRP	A	319	44.457	75.177	57.663	1.00	0.55
ATOM	4455	HZ3	TRP	A	319	43.587	74.611	57.370	1.00	0.55
ATOM	4456	CE3	TRP	A	319	44.813	76.317	56.921	1.00	0.55
ATOM	4457	HE3	TRP	A	319	44.230	76.599	56.056	1.00	0.55
ATOM	4458	CD2	TRP	A	319	45.936	77.088	57.280	1.00	0.55
ATOM	4459	C	TRP	A	319	46.919	80.245	53.383	1.00	0.55
ATOM	4460	O	TRP	A	319	46.123	81.161	53.168	1.00	0.55
ATOM	4461	N	SER	A	320	47.521	79.553	52.422	1.00	0.43
ATOM	4462	H	SER	A	320	48.217	78.869	52.710	1.00	0.43
ATOM	4463	CA	SER	A	320	47.434	79.808	50.993	1.00	0.43
ATOM	4464	HA	SER	A	320	46.512	80.350	50.788	1.00	0.43
ATOM	4465	CB	SER	A	320	48.601	80.680	50.524	1.00	0.43
ATOM	4466	HB1	SER	A	320	49.542	80.136	50.622	1.00	0.43
ATOM	4467	HB2	SER	A	320	48.644	81.582	51.136	1.00	0.43
ATOM	4468	OG	SER	A	320	48.395	81.050	49.175	1.00	0.43
ATOM	4469	HG	SER	A	320	48.663	80.284	48.605	1.00	0.43
ATOM	4470	C	SER	A	320	47.432	78.506	50.201	1.00	0.43
ATOM	4471	O	SER	A	320	48.295	77.648	50.383	1.00	0.43
ATOM	4472	N	ASP	A	321	46.455	78.391	49.299	1.00	0.60
ATOM	4473	H	ASP	A	321	45.827	79.175	49.233	1.00	0.60
ATOM	4474	CA	ASP	A	321	46.279	77.349	48.275	1.00	0.60
ATOM	4475	HA	ASP	A	321	45.254	77.531	47.954	1.00	0.60
ATOM	4476	CB	ASP	A	321	47.051	77.662	46.980	1.00	0.60
ATOM	4477	HB1	ASP	A	321	46.621	78.569	46.549	1.00	0.60
ATOM	4478	HB2	ASP	A	321	46.866	76.858	46.265	1.00	0.60
ATOM	4479	CG	ASP	A	321	48.557	77.892	47.112	1.00	0.60
ATOM	4480	OD1	ASP	A	321	49.285	77.095	46.484	1.00	0.60
ATOM	4481	OD2	ASP	A	321	48.964	78.893	47.752	1.00	0.60
ATOM	4482	C	ASP	A	321	46.128	75.868	48.694	1.00	0.60
ATOM	4483	O	ASP	A	321	45.482	75.099	47.982	1.00	0.60
ATOM	4484	N	VAL	A	322	46.494	75.557	49.933	1.00	0.58

ATOM	4485	H	VAL A 322	47.203	76.163	50.332	1.00	0.58
ATOM	4486	CA	VAL A 322	45.925	74.591	50.893	1.00	0.58
ATOM	4487	HA	VAL A 322	46.745	74.405	51.579	1.00	0.58
ATOM	4488	CB	VAL A 322	44.833	75.230	51.780	1.00	0.58
ATOM	4489	HB	VAL A 322	44.446	74.455	52.443	1.00	0.58
ATOM	4490	CG1	VAL A 322	45.431	76.329	52.674	1.00	0.58
ATOM	4491	1HG1	VAL A 322	45.773	77.165	52.067	1.00	0.58
ATOM	4492	2HG1	VAL A 322	44.674	76.676	53.375	1.00	0.58
ATOM	4493	3HG1	VAL A 322	46.273	75.926	53.236	1.00	0.58
ATOM	4494	CG2	VAL A 322	43.647	75.838	51.017	1.00	0.58
ATOM	4495	1HG2	VAL A 322	43.161	75.076	50.409	1.00	0.58
ATOM	4496	2HG2	VAL A 322	42.911	76.210	51.729	1.00	0.58
ATOM	4497	3HG2	VAL A 322	43.978	76.657	50.380	1.00	0.58
ATOM	4498	C	VAL A 322	45.534	73.162	50.455	1.00	0.58
ATOM	4499	O	VAL A 322	46.108	72.211	50.963	1.00	0.58
ATOM	4500	N	GLU A 323	44.555	72.978	49.576	1.00	0.56
ATOM	4501	H	GLU A 323	44.334	73.783	49.004	1.00	0.56
ATOM	4502	CA	GLU A 323	43.531	71.913	49.628	1.00	0.56
ATOM	4503	HA	GLU A 323	42.856	72.215	50.430	1.00	0.56
ATOM	4504	CB	GLU A 323	42.679	71.987	48.345	1.00	0.56
ATOM	4505	HB1	GLU A 323	43.356	72.033	47.490	1.00	0.56
ATOM	4506	HB2	GLU A 323	42.121	72.925	48.364	1.00	0.56
ATOM	4507	CG	GLU A 323	41.685	70.839	48.068	1.00	0.56
ATOM	4508	HG1	GLU A 323	42.242	69.931	47.836	1.00	0.56
ATOM	4509	HG2	GLU A 323	41.141	71.102	47.157	1.00	0.56
ATOM	4510	CD	GLU A 323	40.659	70.516	49.169	1.00	0.56
ATOM	4511	OE1	GLU A 323	40.860	70.861	50.357	1.00	0.56
ATOM	4512	OE2	GLU A 323	39.663	69.841	48.821	1.00	0.56
ATOM	4513	C	GLU A 323	43.922	70.436	49.992	1.00	0.56
ATOM	4514	O	GLU A 323	44.454	69.672	49.172	1.00	0.56
ATOM	4515	N	VAL A 324	43.513	69.974	51.192	1.00	0.45
ATOM	4516	H	VAL A 324	43.136	70.635	51.851	1.00	0.45
ATOM	4517	CA	VAL A 324	43.431	68.562	51.536	1.00	0.45
ATOM	4518	HA	VAL A 324	44.425	68.191	51.312	1.00	0.45
ATOM	4519	CB	VAL A 324	43.300	68.326	53.053	1.00	0.45
ATOM	4520	HB	VAL A 324	42.328	68.673	53.405	1.00	0.45
ATOM	4521	CG1	VAL A 324	43.463	66.830	53.384	1.00	0.45
ATOM	4522	1HG1	VAL A 324	43.427	66.671	54.456	1.00	0.45
ATOM	4523	2HG1	VAL A 324	42.649	66.250	52.951	1.00	0.45
ATOM	4524	3HG1	VAL A 324	44.413	66.459	52.999	1.00	0.45
ATOM	4525	CG2	VAL A 324	44.417	69.088	53.787	1.00	0.45
ATOM	4526	1HG2	VAL A 324	44.496	68.759	54.815	1.00	0.45
ATOM	4527	2HG2	VAL A 324	45.376	68.910	53.298	1.00	0.45
ATOM	4528	3HG2	VAL A 324	44.213	70.158	53.776	1.00	0.45

ATOM	4529	C	VAL	A	324	42.569	67.575	50.737	1.00	0.45
ATOM	4530	O	VAL	A	324	43.115	66.645	50.144	1.00	0.45
ATOM	4531	N	THR	A	325	41.246	67.676	50.794	1.00	0.66
ATOM	4532	H	THR	A	325	40.859	68.530	51.177	1.00	0.66
ATOM	4533	CA	THR	A	325	40.299	66.726	50.175	1.00	0.66
ATOM	4534	HA	THR	A	325	39.330	67.139	50.457	1.00	0.66
ATOM	4535	CB	THR	A	325	40.377	66.878	48.633	1.00	0.66
ATOM	4536	HB	THR	A	325	41.118	67.642	48.395	1.00	0.66
ATOM	4537	CG2	THR	A	325	40.754	65.646	47.804	1.00	0.66
ATOM	4538	1HG2	THR	A	325	40.914	65.955	46.771	1.00	0.66
ATOM	4539	2HG2	THR	A	325	41.678	65.217	48.189	1.00	0.66
ATOM	4540	3HG2	THR	A	325	39.957	64.905	47.826	1.00	0.66
ATOM	4541	OG1	THR	A	325	39.140	67.364	48.176	1.00	0.66
ATOM	4542	HG1	THR	A	325	39.187	68.332	48.386	1.00	0.66
ATOM	4543	C	THR	A	325	40.198	65.268	50.642	1.00	0.66
ATOM	4544	O	THR	A	325	41.087	64.699	51.274	1.00	0.66
ATOM	4545	N	GLY	A	326	39.068	64.635	50.309	1.00	1.01
ATOM	4546	H	GLY	A	326	38.352	65.197	49.869	1.00	1.01
ATOM	4547	CA	GLY	A	326	38.877	63.176	50.313	1.00	1.01
ATOM	4548	HA1	GLY	A	326	39.822	62.702	50.047	1.00	1.01
ATOM	4549	HA2	GLY	A	326	38.149	62.922	49.543	1.00	1.01
ATOM	4550	C	GLY	A	326	38.408	62.532	51.605	1.00	1.01
ATOM	4551	O	GLY	A	326	38.057	61.361	51.564	1.00	1.01
ATOM	4552	N	GLY	A	327	38.372	63.283	52.701	1.00	0.95
ATOM	4553	H	GLY	A	327	38.508	64.280	52.603	1.00	0.95
ATOM	4554	CA	GLY	A	327	38.016	62.801	54.033	1.00	0.95
ATOM	4555	HA1	GLY	A	327	38.878	62.899	54.683	1.00	0.95
ATOM	4556	HA2	GLY	A	327	37.718	61.751	54.008	1.00	0.95
ATOM	4557	C	GLY	A	327	36.865	63.620	54.618	1.00	0.95
ATOM	4558	O	GLY	A	327	36.268	64.466	53.950	1.00	0.95
ATOM	4559	N	GLU	A	328	36.566	63.361	55.884	1.00	1.14
ATOM	4560	H	GLU	A	328	37.085	62.625	56.356	1.00	1.14
ATOM	4561	CA	GLU	A	328	35.640	64.166	56.688	1.00	1.14
ATOM	4562	HA	GLU	A	328	34.667	64.195	56.196	1.00	1.14
ATOM	4563	CB	GLU	A	328	35.494	63.479	58.059	1.00	1.14
ATOM	4564	HB1	GLU	A	328	35.259	64.218	58.827	1.00	1.14
ATOM	4565	HB2	GLU	A	328	36.445	63.018	58.331	1.00	1.14
ATOM	4566	CG	GLU	A	328	34.398	62.405	58.081	1.00	1.14
ATOM	4567	HG1	GLU	A	328	34.643	61.691	58.871	1.00	1.14
ATOM	4568	HG2	GLU	A	328	34.380	61.867	57.131	1.00	1.14
ATOM	4569	CD	GLU	A	328	33.023	63.019	58.367	1.00	1.14
ATOM	4570	OE1	GLU	A	328	32.723	64.092	57.792	1.00	1.14
ATOM	4571	OE2	GLU	A	328	32.287	62.443	59.200	1.00	1.14
ATOM	4572	C	GLU	A	328	36.091	65.632	56.874	1.00	1.14

ATOM	4573	O	GLU	A	328	37.282	65.935	56.765	1.00	1.14
ATOM	4574	N	ASP	A	329	35.163	66.521	57.278	1.00	1.01
ATOM	4575	H	ASP	A	329	34.216	66.179	57.416	1.00	1.01
ATOM	4576	CA	ASP	A	329	35.416	67.958	57.551	1.00	1.01
ATOM	4577	HA	ASP	A	329	36.494	68.111	57.561	1.00	1.01
ATOM	4578	CB	ASP	A	329	34.900	68.823	56.368	1.00	1.01
ATOM	4579	HB1	ASP	A	329	33.834	69.015	56.505	1.00	1.01
ATOM	4580	HB2	ASP	A	329	35.002	68.244	55.447	1.00	1.01
ATOM	4581	CG	ASP	A	329	35.643	70.163	56.146	1.00	1.01
ATOM	4582	OD1	ASP	A	329	36.612	70.213	55.346	1.00	1.01
ATOM	4583	OD2	ASP	A	329	35.231	71.186	56.738	1.00	1.01
ATOM	4584	C	ASP	A	329	34.888	68.394	58.952	1.00	1.01
ATOM	4585	O	ASP	A	329	33.696	68.270	59.238	1.00	1.01
ATOM	4586	N	TYR	A	330	35.787	68.727	59.908	1.00	1.16
ATOM	4587	H	TYR	A	330	36.745	68.874	59.625	1.00	1.16
ATOM	4588	CA	TYR	A	330	35.519	68.387	61.323	1.00	1.16
ATOM	4589	HA	TYR	A	330	34.930	67.479	61.239	1.00	1.16
ATOM	4590	CB	TYR	A	330	36.695	68.063	62.280	1.00	1.16
ATOM	4591	HB1	TYR	A	330	36.891	68.941	62.897	1.00	1.16
ATOM	4592	HB2	TYR	A	330	37.619	67.899	61.771	1.00	1.16
ATOM	4593	CG	TYR	A	330	36.431	66.867	63.204	1.00	1.16
ATOM	4594	CD1	TYR	A	330	35.816	65.687	62.724	1.00	1.16
ATOM	4595	HD1	TYR	A	330	35.569	65.580	61.677	1.00	1.16
ATOM	4596	CE1	TYR	A	330	35.508	64.626	63.596	1.00	1.16
ATOM	4597	HE1	TYR	A	330	35.020	63.736	63.225	1.00	1.16
ATOM	4598	CZ	TYR	A	330	35.821	64.724	64.965	1.00	1.16
ATOM	4599	OH	TYR	A	330	35.481	63.722	65.819	1.00	1.16
ATOM	4600	HH	TYR	A	330	35.717	63.933	66.722	1.00	1.16
ATOM	4601	CE2	TYR	A	330	36.481	65.876	65.445	1.00	1.16
ATOM	4602	HE2	TYR	A	330	36.746	65.957	66.488	1.00	1.16
ATOM	4603	CD2	TYR	A	330	36.789	66.933	64.565	1.00	1.16
ATOM	4604	HD2	TYR	A	330	37.302	67.803	64.944	1.00	1.16
ATOM	4605	C	TYR	A	330	34.617	69.364	62.061	1.00	1.16
ATOM	4606	O	TYR	A	330	34.886	70.555	62.192	1.00	1.16
ATOM	4607	N	GLY	A	331	33.648	68.770	62.748	1.00	1.39
ATOM	4608	H	GLY	A	331	33.498	67.787	62.582	1.00	1.39
ATOM	4609	CA	GLY	A	331	32.774	69.459	63.683	1.00	1.39
ATOM	4610	HA1	GLY	A	331	31.832	68.916	63.740	1.00	1.39
ATOM	4611	HA2	GLY	A	331	32.559	70.452	63.286	1.00	1.39
ATOM	4612	C	GLY	A	331	33.297	69.644	65.109	1.00	1.39
ATOM	4613	O	GLY	A	331	32.516	69.716	66.058	1.00	1.39
ATOM	4614	N	SER	A	332	34.617	69.717	65.246	1.00	0.88
ATOM	4615	H	SER	A	332	35.152	69.663	64.389	1.00	0.88
ATOM	4616	CA	SER	A	332	35.328	70.266	66.400	1.00	0.88

ATOM	4617	HA	SER A 332	34.740	71.072	66.843	1.00	0.88
ATOM	4618	CB	SER A 332	35.571	69.213	67.484	1.00	0.88
ATOM	4619	HB1	SER A 332	35.875	68.278	67.014	1.00	0.88
ATOM	4620	HB2	SER A 332	34.640	69.041	68.025	1.00	0.88
ATOM	4621	OG	SER A 332	36.583	69.591	68.399	1.00	0.88
ATOM	4622	HG	SER A 332	36.503	70.544	68.660	1.00	0.88
ATOM	4623	C	SER A 332	36.621	70.857	65.866	1.00	0.88
ATOM	4624	O	SER A 332	37.457	70.140	65.311	1.00	0.88
ATOM	4625	N	CYS A 333	36.740	72.179	65.929	1.00	0.80
ATOM	4626	H	CYS A 333	36.057	72.704	66.476	1.00	0.80
ATOM	4627	CA	CYS A 333	37.885	72.899	65.410	1.00	0.80
ATOM	4628	HA	CYS A 333	38.752	72.305	65.689	1.00	0.80
ATOM	4629	CB	CYS A 333	37.857	72.920	63.865	1.00	0.80
ATOM	4630	HB1	CYS A 333	37.696	71.903	63.507	1.00	0.80
ATOM	4631	HB2	CYS A 333	38.852	73.223	63.546	1.00	0.80
ATOM	4632	SG	CYS A 333	36.668	73.997	63.004	1.00	0.80
ATOM	4633	C	CYS A 333	38.090	74.286	66.061	1.00	0.80
ATOM	4634	O	CYS A 333	37.709	75.316	65.501	1.00	0.80
ATOM	4635	N	GLU A 334	38.634	74.346	67.283	1.00	0.91
ATOM	4636	H	GLU A 334	39.043	73.521	67.699	1.00	0.91
ATOM	4637	CA	GLU A 334	38.319	75.501	68.123	1.00	0.91
ATOM	4638	HA	GLU A 334	37.368	75.936	67.810	1.00	0.91
ATOM	4639	CB	GLU A 334	38.141	75.004	69.572	1.00	0.91
ATOM	4640	HB1	GLU A 334	38.313	75.838	70.255	1.00	0.91
ATOM	4641	HB2	GLU A 334	38.888	74.239	69.796	1.00	0.91
ATOM	4642	CG	GLU A 334	36.732	74.460	69.868	1.00	0.91
ATOM	4643	HG1	GLU A 334	36.028	75.294	69.815	1.00	0.91
ATOM	4644	HG2	GLU A 334	36.711	74.087	70.895	1.00	0.91
ATOM	4645	CD	GLU A 334	36.272	73.347	68.912	1.00	0.91
ATOM	4646	OE1	GLU A 334	36.649	72.170	69.105	1.00	0.91
ATOM	4647	OE2	GLU A 334	35.540	73.662	67.947	1.00	0.91
ATOM	4648	C	GLU A 334	39.387	76.599	68.048	1.00	0.91
ATOM	4649	O	GLU A 334	40.566	76.360	67.786	1.00	0.91
ATOM	4650	N	ASN A 335	38.935	77.834	68.286	1.00	1.19
ATOM	4651	H	ASN A 335	37.964	77.908	68.544	1.00	1.19
ATOM	4652	CA	ASN A 335	39.701	79.084	68.233	1.00	1.19
ATOM	4653	HA	ASN A 335	38.963	79.874	68.078	1.00	1.19
ATOM	4654	CB	ASN A 335	40.340	79.323	69.615	1.00	1.19
ATOM	4655	HB1	ASN A 335	41.298	78.808	69.671	1.00	1.19
ATOM	4656	HB2	ASN A 335	39.701	78.938	70.410	1.00	1.19
ATOM	4657	CG	ASN A 335	40.523	80.805	69.861	1.00	1.19
ATOM	4658	OD1	ASN A 335	39.578	81.576	69.852	1.00	1.19
ATOM	4659	ND2	ASN A 335	41.729	81.268	70.061	1.00	1.19
ATOM	4660	1HD2	ASN A 335	42.494	80.623	70.234	1.00	1.19

ATOM	4661	2HD2	ASN	A	335	41.844	82.262	70.053	1.00	1.19
ATOM	4662	C	ASN	A	335	40.668	79.219	67.031	1.00	1.19
ATOM	4663	O	ASN	A	335	41.763	79.776	67.133	1.00	1.19
ATOM	4664	N	VAL	A	336	40.241	78.708	65.874	1.00	1.37
ATOM	4665	H	VAL	A	336	39.400	78.150	65.896	1.00	1.37
ATOM	4666	CA	VAL	A	336	40.871	78.930	64.568	1.00	1.37
ATOM	4667	HA	VAL	A	336	41.796	78.359	64.555	1.00	1.37
ATOM	4668	CB	VAL	A	336	39.945	78.363	63.468	1.00	1.37
ATOM	4669	HB	VAL	A	336	38.944	78.774	63.604	1.00	1.37
ATOM	4670	CG1	VAL	A	336	40.399	78.669	62.035	1.00	1.37
ATOM	4671	1HG1	VAL	A	336	39.723	78.191	61.327	1.00	1.37
ATOM	4672	2HG1	VAL	A	336	40.364	79.742	61.847	1.00	1.37
ATOM	4673	3HG1	VAL	A	336	41.410	78.301	61.871	1.00	1.37
ATOM	4674	CG2	VAL	A	336	39.866	76.837	63.564	1.00	1.37
ATOM	4675	1HG2	VAL	A	336	40.812	76.412	63.252	1.00	1.37
ATOM	4676	2HG2	VAL	A	336	39.667	76.520	64.586	1.00	1.37
ATOM	4677	3HG2	VAL	A	336	39.066	76.462	62.926	1.00	1.37
ATOM	4678	C	VAL	A	336	41.168	80.416	64.316	1.00	1.37
ATOM	4679	O	VAL	A	336	40.276	81.249	64.488	1.00	1.37
ATOM	4680	N	PRO	A	337	42.383	80.773	63.864	1.00	1.36
ATOM	4681	CD	PRO	A	337	43.524	79.905	63.642	1.00	1.36
ATOM	4682	HD1	PRO	A	337	43.314	79.169	62.866	1.00	1.36
ATOM	4683	HD2	PRO	A	337	43.774	79.398	64.566	1.00	1.36
ATOM	4684	CG	PRO	A	337	44.675	80.808	63.203	1.00	1.36
ATOM	4685	HG1	PRO	A	337	44.828	80.703	62.129	1.00	1.36
ATOM	4686	HG2	PRO	A	337	45.578	80.576	63.760	1.00	1.36
ATOM	4687	CB	PRO	A	337	44.225	82.227	63.521	1.00	1.36
ATOM	4688	HB1	PRO	A	337	44.625	82.950	62.808	1.00	1.36
ATOM	4689	HB2	PRO	A	337	44.536	82.484	64.535	1.00	1.36
ATOM	4690	CA	PRO	A	337	42.703	82.135	63.471	1.00	1.36
ATOM	4691	HA	PRO	A	337	42.281	82.837	64.191	1.00	1.36
ATOM	4692	C	PRO	A	337	42.146	82.446	62.086	1.00	1.36
ATOM	4693	O	PRO	A	337	42.150	81.600	61.200	1.00	1.36
ATOM	4694	N	SER	A	338	41.682	83.674	61.870	1.00	1.52
ATOM	4695	H	SER	A	338	41.753	84.359	62.607	1.00	1.52
ATOM	4696	CA	SER	A	338	40.872	84.043	60.705	1.00	1.52
ATOM	4697	HA	SER	A	338	40.136	83.253	60.545	1.00	1.52
ATOM	4698	CB	SER	A	338	40.112	85.336	61.035	1.00	1.52
ATOM	4699	HB1	SER	A	338	39.534	85.189	61.949	1.00	1.52
ATOM	4700	HB2	SER	A	338	39.422	85.585	60.226	1.00	1.52
ATOM	4701	OG	SER	A	338	41.028	86.396	61.228	1.00	1.52
ATOM	4702	HG	SER	A	338	41.379	86.642	60.364	1.00	1.52
ATOM	4703	C	SER	A	338	41.631	84.212	59.375	1.00	1.52
ATOM	4704	O	SER	A	338	41.152	84.892	58.471	1.00	1.52

ATOM	4705	N	VAL	A	339	42.815	83.619	59.251	1.00	1.86
ATOM	4706	H	VAL	A	339	43.127	83.075	60.044	1.00	1.86
ATOM	4707	CA	VAL	A	339	43.530	83.416	57.975	1.00	1.86
ATOM	4708	HA	VAL	A	339	42.833	83.601	57.156	1.00	1.86
ATOM	4709	CB	VAL	A	339	44.718	84.397	57.811	1.00	1.86
ATOM	4710	HB	VAL	A	339	45.538	84.052	58.436	1.00	1.86
ATOM	4711	CG1	VAL	A	339	45.192	84.489	56.351	1.00	1.86
ATOM	4712	1HG1	VAL	A	339	46.048	85.160	56.285	1.00	1.86
ATOM	4713	2HG1	VAL	A	339	45.500	83.516	55.976	1.00	1.86
ATOM	4714	3HG1	VAL	A	339	44.391	84.870	55.719	1.00	1.86
ATOM	4715	CG2	VAL	A	339	44.374	85.835	58.233	1.00	1.86
ATOM	4716	1HG2	VAL	A	339	45.228	86.487	58.049	1.00	1.86
ATOM	4717	2HG2	VAL	A	339	43.513	86.196	57.668	1.00	1.86
ATOM	4718	3HG2	VAL	A	339	44.156	85.873	59.299	1.00	1.86
ATOM	4719	C	VAL	A	339	43.951	81.944	57.879	1.00	1.86
ATOM	4720	O	VAL	A	339	45.026	81.569	57.413	1.00	1.86
ATOM	4721	N	ALA	A	340	43.051	81.122	58.401	1.00	2.05
ATOM	4722	H	ALA	A	340	42.237	81.556	58.820	1.00	2.05
ATOM	4723	CA	ALA	A	340	42.982	79.686	58.374	1.00	2.05
ATOM	4724	HA	ALA	A	340	43.518	79.318	57.497	1.00	2.05
ATOM	4725	CB	ALA	A	340	43.639	79.114	59.630	1.00	2.05
ATOM	4726	HB1	ALA	A	340	43.755	78.033	59.533	1.00	2.05
ATOM	4727	HB2	ALA	A	340	44.615	79.579	59.750	1.00	2.05
ATOM	4728	HB3	ALA	A	340	43.034	79.331	60.507	1.00	2.05
ATOM	4729	C	ALA	A	340	41.502	79.327	58.243	1.00	2.05
ATOM	4730	O	ALA	A	340	40.604	80.125	58.521	1.00	2.05
ATOM	4731	N	SER	A	341	41.242	78.094	57.849	1.00	2.24
ATOM	4732	H	SER	A	341	42.006	77.467	57.625	1.00	2.24
ATOM	4733	CA	SER	A	341	39.950	77.481	58.085	1.00	2.24
ATOM	4734	HA	SER	A	341	39.439	77.973	58.914	1.00	2.24
ATOM	4735	CB	SER	A	341	39.061	77.555	56.842	1.00	2.24
ATOM	4736	HB1	SER	A	341	39.504	76.972	56.032	1.00	2.24
ATOM	4737	HB2	SER	A	341	38.962	78.596	56.528	1.00	2.24
ATOM	4738	OG	SER	A	341	37.785	77.039	57.168	1.00	2.24
ATOM	4739	HG	SER	A	341	37.232	77.047	56.377	1.00	2.24
ATOM	4740	C	SER	A	341	40.219	76.040	58.456	1.00	2.24
ATOM	4741	O	SER	A	341	41.197	75.451	57.990	1.00	2.24
ATOM	4742	N	CYS	A	342	39.352	75.472	59.288	1.00	2.60
ATOM	4743	H	CYS	A	342	38.537	75.996	59.569	1.00	2.60
ATOM	4744	CA	CYS	A	342	39.337	74.028	59.470	1.00	2.60
ATOM	4745	HA	CYS	A	342	40.373	73.692	59.497	1.00	2.60
ATOM	4746	CB	CYS	A	342	38.751	73.673	60.839	1.00	2.60
ATOM	4747	HB1	CYS	A	342	39.146	74.374	61.573	1.00	2.60
ATOM	4748	HB2	CYS	A	342	39.122	72.682	61.101	1.00	2.60

[illegible]