

## Supplementary Materials

# Rosmarinic Acid Present in *Lepechinia floribunda* and *Lepechinia meyenii* As A Potent Inhibitor of the Adenylyl Cyclase gNC1 from *Giardia lamblia*

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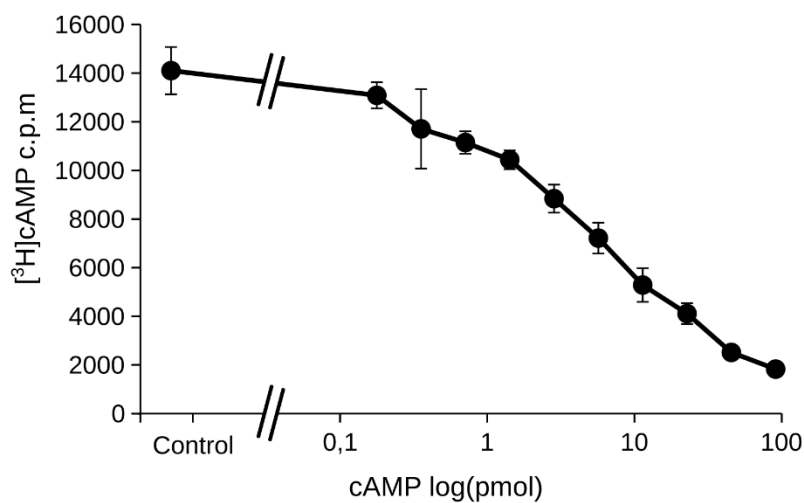
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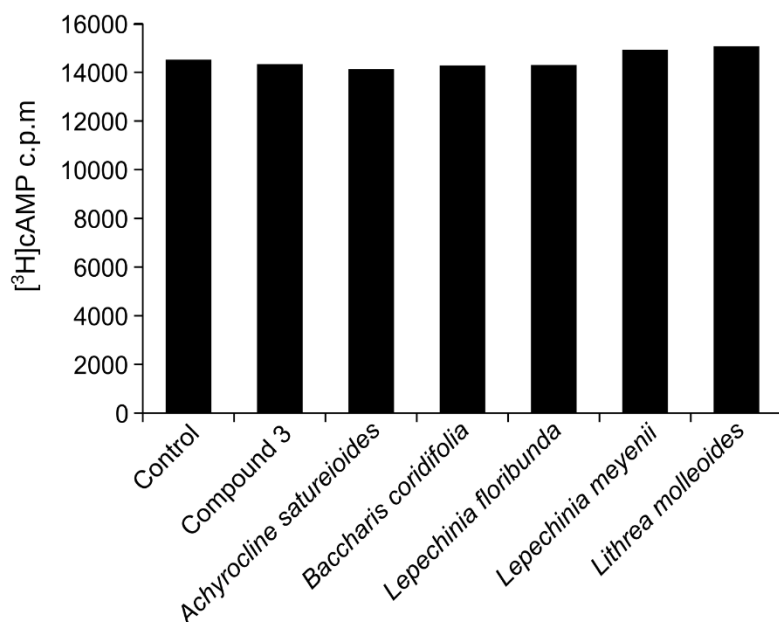
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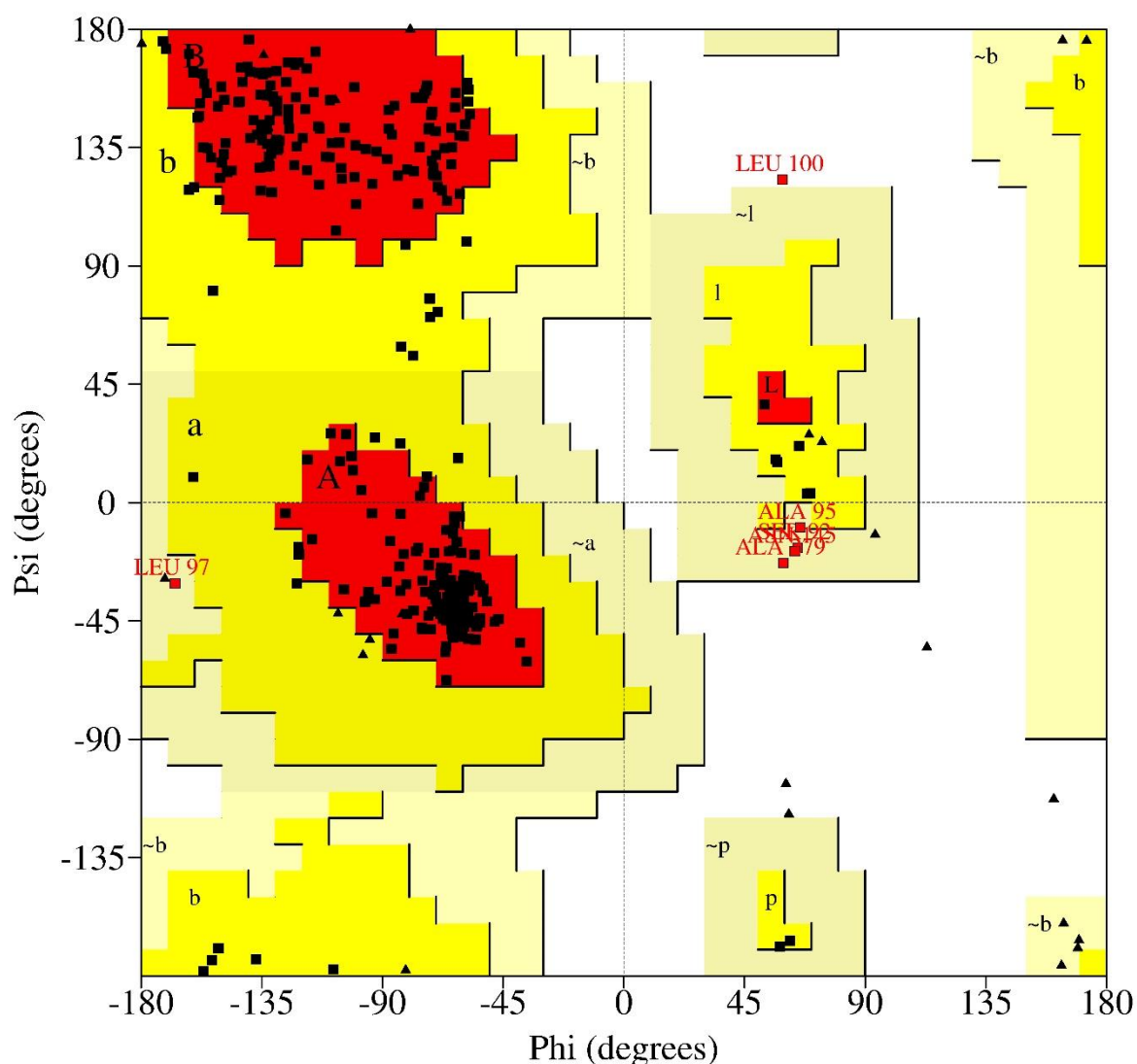
a)



b)



**Figure S1.** The controls for the Radiobinding-Protein (RBP) assay were conducted under the specified conditions: (a) in the presence of increasing concentrations of cAMP, and (b) in the presence of DMSO (negative control), 50  $\mu$ M of rosmarinic acid (**3**) or 250  $\mu$ g/mL of the target plant extracts. The results obtained showed that these inhibitors did not interfere with the binding between cAMP and the protein kinase A used in the RBP buffer.



**Figure S2.** PROCHECK's<sup>1</sup> Ramachandran plot that validates the predicted 3D model of gNC1. A good quality model has been obtained since most residues (87.7%) are situated in the most favored regions and 10.5% are in additional allowed regions. A 1.5% of residues are found in generously allowed regions, while only one residue (0.3%) is located in disallowed regions; these latter correspond to residues located in external regions associated to high protein flexibility.

1. Laskowski, R.A.; MacArthur, M.W.; Moss, D.S.; Thornton, J.M. PROCHECK: a program to check the stereochemical quality of protein structures. *J. Appl. Cryst.* 1993, 26, 283-291, doi:10.1107/S0021889892009944

# Molecular structure of gNC1 from *Giardia lamblia*

ATOM	1	N	LEU	1	25.530	34.611	37.113	1.00	0.00	N
ATOM	2	H1	LEU	1	26.040	33.997	37.726	1.00	0.00	H
ATOM	3	H2	LEU	1	25.444	35.527	37.538	1.00	0.00	H
ATOM	4	H3	LEU	1	24.587	34.254	37.025	1.00	0.00	H
ATOM	5	CA	LEU	1	26.169	34.712	35.782	1.00	0.00	C
ATOM	6	HA	LEU	1	27.171	35.117	35.922	1.00	0.00	H
ATOM	7	CB	LEU	1	26.317	33.345	35.083	1.00	0.00	C
ATOM	8	HB2	LEU	1	25.328	32.941	34.870	1.00	0.00	H
ATOM	9	HB3	LEU	1	26.820	33.501	34.127	1.00	0.00	H
ATOM	10	CG	LEU	1	27.114	32.302	35.893	1.00	0.00	C
ATOM	11	HG	LEU	1	26.618	32.134	36.849	1.00	0.00	H
ATOM	12	CD1	LEU	1	27.171	30.973	35.142	1.00	0.00	C
ATOM	13	HD11	LEU	1	26.160	30.605	34.964	1.00	0.00	H
ATOM	14	HD12	LEU	1	27.711	30.235	35.735	1.00	0.00	H
ATOM	15	HD13	LEU	1	27.683	31.099	34.186	1.00	0.00	H
ATOM	16	CD2	LEU	1	28.545	32.771	36.163	1.00	0.00	C
ATOM	17	HD21	LEU	1	29.050	32.976	35.218	1.00	0.00	H
ATOM	18	HD22	LEU	1	28.557	33.665	36.784	1.00	0.00	H
ATOM	19	HD23	LEU	1	29.093	31.985	36.686	1.00	0.00	H
ATOM	20	C	LEU	1	25.452	35.716	34.880	1.00	0.00	C
ATOM	21	O	LEU	1	26.129	36.573	34.325	1.00	0.00	O
ATOM	22	N	LYS	2	24.124	35.626	34.712	1.00	0.00	N
ATOM	23	H	LYS	2	23.619	34.904	35.223	1.00	0.00	H
ATOM	24	CA	LYS	2	23.337	36.396	33.724	1.00	0.00	C
ATOM	25	HA	LYS	2	23.770	36.225	32.737	1.00	0.00	H
ATOM	26	CB	LYS	2	21.894	35.854	33.718	1.00	0.00	C
ATOM	27	HB2	LYS	2	21.521	35.779	34.742	1.00	0.00	H
ATOM	28	HB3	LYS	2	21.252	36.549	33.174	1.00	0.00	H
ATOM	29	CG	LYS	2	21.805	34.485	33.023	1.00	0.00	C
ATOM	30	HG2	LYS	2	22.166	34.596	31.999	1.00	0.00	H
ATOM	31	HG3	LYS	2	22.435	33.758	33.535	1.00	0.00	H
ATOM	32	CD	LYS	2	20.361	33.970	32.990	1.00	0.00	C
ATOM	33	HD2	LYS	2	20.034	33.709	33.999	1.00	0.00	H
ATOM	34	HD3	LYS	2	19.721	34.762	32.602	1.00	0.00	H
ATOM	35	CE	LYS	2	20.277	32.743	32.073	1.00	0.00	C
ATOM	36	HE2	LYS	2	20.880	32.950	31.185	1.00	0.00	H
ATOM	37	HE3	LYS	2	20.706	31.876	32.581	1.00	0.00	H
ATOM	38	NZ	LYS	2	18.888	32.467	31.637	1.00	0.00	N
ATOM	39	HZ1	LYS	2	18.885	31.883	30.804	1.00	0.00	H
ATOM	40	HZ2	LYS	2	18.420	33.333	31.374	1.00	0.00	H
ATOM	41	HZ3	LYS	2	18.318	32.005	32.339	1.00	0.00	H
ATOM	42	C	LYS	2	23.336	37.930	33.874	1.00	0.00	C
ATOM	43	O	LYS	2	22.890	38.607	32.947	1.00	0.00	O
ATOM	44	N	SER	3	23.827	38.506	34.976	1.00	0.00	N
ATOM	45	H	SER	3	24.094	37.910	35.751	1.00	0.00	H
ATOM	46	CA	SER	3	24.011	39.961	35.120	1.00	0.00	C
ATOM	47	HA	SER	3	23.088	40.451	34.809	1.00	0.00	H
ATOM	48	CB	SER	3	24.235	40.334	36.594	1.00	0.00	C
ATOM	49	HB2	SER	3	23.353	40.066	37.178	1.00	0.00	H
ATOM	50	HB3	SER	3	25.093	39.782	36.979	1.00	0.00	H

ATOM	51	OG	SER	3	24.478	41.731	36.714	1.00	0.00	O
ATOM	52	HG	SER	3	25.134	41.946	36.031	1.00	0.00	H
ATOM	53	C	SER	3	25.142	40.509	34.225	1.00	0.00	C
ATOM	54	O	SER	3	26.228	40.846	34.709	1.00	0.00	O
ATOM	55	N	HID	4	24.861	40.675	32.929	1.00	0.00	N
ATOM	56	H	HID	4	23.982	40.302	32.593	1.00	0.00	H
ATOM	57	CA	HID	4	25.693	41.453	32.002	1.00	0.00	C
ATOM	58	HA	HID	4	26.667	40.966	31.938	1.00	0.00	H
ATOM	59	CB	HID	4	25.065	41.433	30.599	1.00	0.00	C
ATOM	60	HB2	HID	4	24.027	41.765	30.662	1.00	0.00	H
ATOM	61	HB3	HID	4	25.600	42.138	29.962	1.00	0.00	H
ATOM	62	CG	HID	4	25.119	40.075	29.935	1.00	0.00	C
ATOM	63	ND1	HID	4	26.205	39.532	29.281	1.00	0.00	N
ATOM	64	HD1	HID	4	27.109	39.981	29.117	1.00	0.00	H
ATOM	65	CE1	HID	4	25.882	38.287	28.895	1.00	0.00	C
ATOM	66	HE1	HID	4	26.543	37.614	28.359	1.00	0.00	H
ATOM	67	NE2	HID	4	24.626	37.988	29.269	1.00	0.00	N
ATOM	68	CD2	HID	4	24.139	39.117	29.941	1.00	0.00	C
ATOM	69	HD2	HID	4	23.166	39.210	30.404	1.00	0.00	H
ATOM	70	C	HID	4	25.931	42.890	32.517	1.00	0.00	C
ATOM	71	O	HID	4	25.148	43.427	33.302	1.00	0.00	O
ATOM	72	N	ALA	5	27.056	43.492	32.123	1.00	0.00	N
ATOM	73	H	ALA	5	27.641	43.028	31.447	1.00	0.00	H
ATOM	74	CA	ALA	5	27.580	44.695	32.770	1.00	0.00	C
ATOM	75	HA	ALA	5	27.572	44.506	33.844	1.00	0.00	H
ATOM	76	CB	ALA	5	29.037	44.880	32.351	1.00	0.00	C
ATOM	77	HB1	ALA	5	29.097	45.072	31.279	1.00	0.00	H
ATOM	78	HB2	ALA	5	29.587	43.972	32.594	1.00	0.00	H
ATOM	79	HB3	ALA	5	29.478	45.717	32.894	1.00	0.00	H
ATOM	80	C	ALA	5	26.750	45.973	32.538	1.00	0.00	C
ATOM	81	O	ALA	5	26.171	46.192	31.475	1.00	0.00	O
ATOM	82	N	THR	6	26.756	46.844	33.547	1.00	0.00	N
ATOM	83	H	THR	6	27.335	46.615	34.348	1.00	0.00	H
ATOM	84	CA	THR	6	25.916	48.049	33.663	1.00	0.00	C
ATOM	85	HA	THR	6	25.384	48.209	32.725	1.00	0.00	H
ATOM	86	CB	THR	6	24.868	47.872	34.780	1.00	0.00	C
ATOM	87	HB	THR	6	24.264	48.779	34.830	1.00	0.00	H
ATOM	88	CG2	THR	6	23.928	46.692	34.539	1.00	0.00	C
ATOM	89	HG21	THR	6	23.148	46.689	35.299	1.00	0.00	H
ATOM	90	HG22	THR	6	24.473	45.749	34.585	1.00	0.00	H
ATOM	91	HG23	THR	6	23.464	46.786	33.557	1.00	0.00	H
ATOM	92	OG1	THR	6	25.481	47.676	36.039	1.00	0.00	O
ATOM	93	HG1	THR	6	26.081	46.923	35.956	1.00	0.00	H
ATOM	94	C	THR	6	26.757	49.295	33.946	1.00	0.00	C
ATOM	95	O	THR	6	27.871	49.182	34.452	1.00	0.00	O
ATOM	96	N	VAL	7	26.237	50.486	33.630	1.00	0.00	N
ATOM	97	H	VAL	7	25.311	50.512	33.231	1.00	0.00	H
ATOM	98	CA	VAL	7	26.774	51.768	34.124	1.00	0.00	C
ATOM	99	HA	VAL	7	27.840	51.652	34.320	1.00	0.00	H
ATOM	100	CB	VAL	7	26.632	52.907	33.090	1.00	0.00	C
ATOM	101	HB	VAL	7	27.231	52.640	32.229	1.00	0.00	H
ATOM	102	CG1	VAL	7	25.201	53.133	32.583	1.00	0.00	C

ATOM	103	HG11	VAL	7	24.805	52.224	32.133	1.00	0.00	H
ATOM	104	HG12	VAL	7	24.552	53.440	33.400	1.00	0.00	H
ATOM	105	HG13	VAL	7	25.202	53.917	31.824	1.00	0.00	H
ATOM	106	CG2	VAL	7	27.184	54.237	33.614	1.00	0.00	C
ATOM	107	HG21	VAL	7	28.201	54.101	33.988	1.00	0.00	H
ATOM	108	HG22	VAL	7	26.559	54.634	34.414	1.00	0.00	H
ATOM	109	HG23	VAL	7	27.218	54.967	32.805	1.00	0.00	H
ATOM	110	C	VAL	7	26.095	52.124	35.444	1.00	0.00	C
ATOM	111	O	VAL	7	24.871	52.001	35.572	1.00	0.00	O
ATOM	112	N	ARG	8	26.868	52.597	36.425	1.00	0.00	N
ATOM	113	H	ARG	8	27.875	52.661	36.272	1.00	0.00	H
ATOM	114	CA	ARG	8	26.323	53.095	37.691	1.00	0.00	C
ATOM	115	HA	ARG	8	25.333	53.507	37.489	1.00	0.00	H
ATOM	116	CB	ARG	8	26.184	51.932	38.694	1.00	0.00	C
ATOM	117	HB2	ARG	8	25.955	51.013	38.152	1.00	0.00	H
ATOM	118	HB3	ARG	8	27.130	51.791	39.222	1.00	0.00	H
ATOM	119	CG	ARG	8	25.053	52.192	39.703	1.00	0.00	C
ATOM	120	HG2	ARG	8	25.188	53.169	40.161	1.00	0.00	H
ATOM	121	HG3	ARG	8	24.098	52.195	39.174	1.00	0.00	H
ATOM	122	CD	ARG	8	24.995	51.155	40.829	1.00	0.00	C
ATOM	123	HD2	ARG	8	25.908	51.222	41.425	1.00	0.00	H
ATOM	124	HD3	ARG	8	24.151	51.415	41.471	1.00	0.00	H
ATOM	125	NE	ARG	8	24.825	49.774	40.332	1.00	0.00	N
ATOM	126	HE	ARG	8	24.903	49.629	39.340	1.00	0.00	H
ATOM	127	CZ	ARG	8	24.571	48.718	41.085	1.00	0.00	C
ATOM	128	NH1	ARG	8	24.433	48.796	42.374	1.00	0.00	N
ATOM	129	HH11	ARG	8	24.452	49.715	42.835	1.00	0.00	H
ATOM	130	HH12	ARG	8	24.187	48.002	42.947	1.00	0.00	H
ATOM	131	NH2	ARG	8	24.450	47.538	40.544	1.00	0.00	N
ATOM	132	HH21	ARG	8	24.547	47.422	39.550	1.00	0.00	H
ATOM	133	HH22	ARG	8	24.225	46.756	41.132	1.00	0.00	H
ATOM	134	C	ARG	8	27.180	54.217	38.261	1.00	0.00	C
ATOM	135	O	ARG	8	28.404	54.162	38.213	1.00	0.00	O
ATOM	136	N	PHE	9	26.527	55.197	38.876	1.00	0.00	N
ATOM	137	H	PHE	9	25.521	55.203	38.850	1.00	0.00	H
ATOM	138	CA	PHE	9	27.185	56.084	39.825	1.00	0.00	C
ATOM	139	HA	PHE	9	28.192	56.294	39.471	1.00	0.00	H
ATOM	140	CB	PHE	9	26.428	57.420	39.891	1.00	0.00	C
ATOM	141	HB2	PHE	9	25.453	57.248	40.350	1.00	0.00	H
ATOM	142	HB3	PHE	9	26.986	58.102	40.531	1.00	0.00	H
ATOM	143	CG	PHE	9	26.224	58.108	38.551	1.00	0.00	C
ATOM	144	CD1	PHE	9	24.923	58.362	38.072	1.00	0.00	C
ATOM	145	HD1	PHE	9	24.059	58.068	38.651	1.00	0.00	H
ATOM	146	CE1	PHE	9	24.739	59.009	36.837	1.00	0.00	C
ATOM	147	HE1	PHE	9	23.740	59.209	36.476	1.00	0.00	H
ATOM	148	CZ	PHE	9	25.853	59.401	36.073	1.00	0.00	C
ATOM	149	HZ	PHE	9	25.709	59.904	35.125	1.00	0.00	H
ATOM	150	CE2	PHE	9	27.152	59.146	36.545	1.00	0.00	C
ATOM	151	HE2	PHE	9	28.010	59.444	35.957	1.00	0.00	H
ATOM	152	CD2	PHE	9	27.337	58.506	37.784	1.00	0.00	C
ATOM	153	HD2	PHE	9	28.338	58.321	38.143	1.00	0.00	H
ATOM	154	C	PHE	9	27.278	55.378	41.191	1.00	0.00	C

ATOM	155	O	PHE	9	26.255	55.011	41.775	1.00	0.00	O
ATOM	156	N	ALA	10	28.491	55.199	41.709	1.00	0.00	N
ATOM	157	H	ALA	10	29.289	55.476	41.147	1.00	0.00	H
ATOM	158	CA	ALA	10	28.784	54.575	43.001	1.00	0.00	C
ATOM	159	HA	ALA	10	27.856	54.252	43.472	1.00	0.00	H
ATOM	160	CB	ALA	10	29.627	53.321	42.733	1.00	0.00	C
ATOM	161	HB1	ALA	10	30.562	53.601	42.245	1.00	0.00	H
ATOM	162	HB2	ALA	10	29.077	52.638	42.084	1.00	0.00	H
ATOM	163	HB3	ALA	10	29.849	52.812	43.672	1.00	0.00	H
ATOM	164	C	ALA	10	29.485	55.543	43.975	1.00	0.00	C
ATOM	165	O	ALA	10	30.043	56.560	43.568	1.00	0.00	O
ATOM	166	N	THR	11	29.500	55.201	45.264	1.00	0.00	N
ATOM	167	H	THR	11	29.025	54.339	45.515	1.00	0.00	H
ATOM	168	CA	THR	11	30.471	55.732	46.238	1.00	0.00	C
ATOM	169	HA	THR	11	31.015	56.568	45.798	1.00	0.00	H
ATOM	170	CB	THR	11	29.809	56.221	47.538	1.00	0.00	C
ATOM	171	HB	THR	11	29.556	55.366	48.162	1.00	0.00	H
ATOM	172	CG2	THR	11	30.763	57.130	48.312	1.00	0.00	C
ATOM	173	HG21	THR	11	31.642	56.571	48.631	1.00	0.00	H
ATOM	174	HG22	THR	11	30.264	57.517	49.196	1.00	0.00	H
ATOM	175	HG23	THR	11	31.073	57.969	47.687	1.00	0.00	H
ATOM	176	OG1	THR	11	28.633	56.963	47.304	1.00	0.00	O
ATOM	177	HG1	THR	11	27.933	56.349	47.042	1.00	0.00	H
ATOM	178	C	THR	11	31.467	54.617	46.559	1.00	0.00	C
ATOM	179	O	THR	11	31.049	53.475	46.742	1.00	0.00	O
ATOM	180	N	ILE	12	32.765	54.913	46.619	1.00	0.00	N
ATOM	181	H	ILE	12	33.044	55.879	46.480	1.00	0.00	H
ATOM	182	CA	ILE	12	33.839	53.909	46.625	1.00	0.00	C
ATOM	183	HA	ILE	12	33.407	52.908	46.653	1.00	0.00	H
ATOM	184	CB	ILE	12	34.651	54.040	45.319	1.00	0.00	C
ATOM	185	HB	ILE	12	35.039	55.060	45.273	1.00	0.00	H
ATOM	186	CG2	ILE	12	35.870	53.109	45.319	1.00	0.00	C
ATOM	187	HG21	ILE	12	36.561	53.371	46.120	1.00	0.00	H
ATOM	188	HG22	ILE	12	36.398	53.240	44.382	1.00	0.00	H
ATOM	189	HG23	ILE	12	35.569	52.068	45.441	1.00	0.00	H
ATOM	190	CG1	ILE	12	33.808	53.823	44.038	1.00	0.00	C
ATOM	191	HG12	ILE	12	33.038	54.593	43.978	1.00	0.00	H
ATOM	192	HG13	ILE	12	34.456	53.955	43.173	1.00	0.00	H
ATOM	193	CD1	ILE	12	33.133	52.454	43.897	1.00	0.00	C
ATOM	194	HD11	ILE	12	33.877	51.660	43.923	1.00	0.00	H
ATOM	195	HD12	ILE	12	32.614	52.408	42.939	1.00	0.00	H
ATOM	196	HD13	ILE	12	32.406	52.308	44.694	1.00	0.00	H
ATOM	197	C	ILE	12	34.741	54.049	47.856	1.00	0.00	C
ATOM	198	O	ILE	12	35.262	55.133	48.117	1.00	0.00	O
ATOM	199	N	MET	13	34.965	52.937	48.564	1.00	0.00	N
ATOM	200	H	MET	13	34.505	52.091	48.241	1.00	0.00	H
ATOM	201	CA	MET	13	35.983	52.778	49.615	1.00	0.00	C
ATOM	202	HA	MET	13	36.122	53.722	50.145	1.00	0.00	H
ATOM	203	CB	MET	13	35.503	51.703	50.615	1.00	0.00	C
ATOM	204	HB2	MET	13	34.677	52.101	51.200	1.00	0.00	H
ATOM	205	HB3	MET	13	35.126	50.874	50.022	1.00	0.00	H
ATOM	206	CG	MET	13	36.544	51.102	51.583	1.00	0.00	C

ATOM	207	HG2 MET	13	37.478	50.927	51.057	1.00	0.00	H
ATOM	208	HG3 MET	13	36.744	51.802	52.393	1.00	0.00	H
ATOM	209	SD MET	13	36.086	49.482	52.262	1.00	0.00	S
ATOM	210	CE MET	13	34.865	49.947	53.513	1.00	0.00	C
ATOM	211	HE1 MET	13	34.409	49.045	53.919	1.00	0.00	H
ATOM	212	HE2 MET	13	35.358	50.485	54.321	1.00	0.00	H
ATOM	213	HE3 MET	13	34.090	50.572	53.072	1.00	0.00	H
ATOM	214	C MET	13	37.331	52.343	49.026	1.00	0.00	C
ATOM	215	O MET	13	37.379	51.430	48.198	1.00	0.00	O
ATOM	216	N PHE	14	38.420	52.860	49.595	1.00	0.00	N
ATOM	217	H PHE	14	38.317	53.684	50.183	1.00	0.00	H
ATOM	218	CA PHE	14	39.684	52.127	49.719	1.00	0.00	C
ATOM	219	HA PHE	14	39.493	51.063	49.571	1.00	0.00	H
ATOM	220	CB PHE	14	40.658	52.593	48.624	1.00	0.00	C
ATOM	221	HB2 PHE	14	40.088	52.835	47.726	1.00	0.00	H
ATOM	222	HB3 PHE	14	41.148	53.513	48.942	1.00	0.00	H
ATOM	223	CG PHE	14	41.705	51.566	48.233	1.00	0.00	C
ATOM	224	CD1 PHE	14	42.952	51.519	48.884	1.00	0.00	C
ATOM	225	HD1 PHE	14	43.181	52.207	49.684	1.00	0.00	H
ATOM	226	CE1 PHE	14	43.918	50.575	48.496	1.00	0.00	C
ATOM	227	HE1 PHE	14	44.872	50.551	49.010	1.00	0.00	H
ATOM	228	CZ PHE	14	43.641	49.666	47.460	1.00	0.00	C
ATOM	229	HZ PHE	14	44.382	48.933	47.172	1.00	0.00	H
ATOM	230	CE2 PHE	14	42.397	49.710	46.804	1.00	0.00	C
ATOM	231	HE2 PHE	14	42.177	49.014	46.006	1.00	0.00	H
ATOM	232	CD2 PHE	14	41.433	50.660	47.189	1.00	0.00	C
ATOM	233	HD2 PHE	14	40.479	50.693	46.683	1.00	0.00	H
ATOM	234	C PHE	14	40.224	52.319	51.149	1.00	0.00	C
ATOM	235	O PHE	14	40.171	53.433	51.669	1.00	0.00	O
ATOM	236	N CYS	15	40.693	51.265	51.821	1.00	0.00	N
ATOM	237	H CYS	15	40.680	50.349	51.384	1.00	0.00	H
ATOM	238	CA CYS	15	41.201	51.342	53.202	1.00	0.00	C
ATOM	239	HA CYS	15	41.683	52.309	53.340	1.00	0.00	H
ATOM	240	CB CYS	15	40.023	51.265	54.188	1.00	0.00	C
ATOM	241	HB2 CYS	15	40.391	51.458	55.197	1.00	0.00	H
ATOM	242	HB3 CYS	15	39.292	52.036	53.936	1.00	0.00	H
ATOM	243	SG CYS	15	39.219	49.638	54.154	1.00	0.00	S
ATOM	244	HG CYS	15	38.922	49.623	52.846	1.00	0.00	H
ATOM	245	C CYS	15	42.278	50.283	53.484	1.00	0.00	C
ATOM	246	O CYS	15	42.324	49.264	52.797	1.00	0.00	O
ATOM	247	N ASP	16	43.162	50.540	54.453	1.00	0.00	N
ATOM	248	H ASP	16	43.052	51.397	54.988	1.00	0.00	H
ATOM	249	CA ASP	16	44.401	49.775	54.686	1.00	0.00	C
ATOM	250	HA ASP	16	44.176	48.713	54.577	1.00	0.00	H
ATOM	251	CB ASP	16	45.384	50.162	53.537	1.00	0.00	C
ATOM	252	HB2 ASP	16	45.132	49.577	52.651	1.00	0.00	H
ATOM	253	HB3 ASP	16	45.224	51.211	53.284	1.00	0.00	H
ATOM	254	CG ASP	16	46.872	50.017	53.825	1.00	0.00	C
ATOM	255	OD1 ASP	16	47.655	49.351	53.082	1.00	0.00	O
ATOM	256	OD2 ASP	16	47.339	50.526	54.860	1.00	0.00	O
ATOM	257	C ASP	16	44.923	49.963	56.147	1.00	0.00	C
ATOM	258	O ASP	16	44.650	50.975	56.799	1.00	0.00	O



ATOM	259	N	ILE	17	45.659	48.977	56.692	1.00	0.00	N
ATOM	260	H	ILE	17	45.887	48.183	56.105	1.00	0.00	H
ATOM	261	CA	ILE	17	46.224	48.987	58.064	1.00	0.00	C
ATOM	262	HA	ILE	17	45.499	49.452	58.734	1.00	0.00	H
ATOM	263	CB	ILE	17	46.475	47.536	58.560	1.00	0.00	C
ATOM	264	HB	ILE	17	47.222	47.084	57.908	1.00	0.00	H
ATOM	265	CG2	ILE	17	47.038	47.542	59.997	1.00	0.00	C
ATOM	266	HG21	ILE	17	47.966	48.111	60.054	1.00	0.00	H
ATOM	267	HG22	ILE	17	47.258	46.531	60.330	1.00	0.00	H
ATOM	268	HG23	ILE	17	46.306	47.980	60.674	1.00	0.00	H
ATOM	269	CG1	ILE	17	45.203	46.658	58.485	1.00	0.00	C
ATOM	270	HG12	ILE	17	44.442	47.060	59.154	1.00	0.00	H
ATOM	271	HG13	ILE	17	44.808	46.685	57.469	1.00	0.00	H
ATOM	272	CD1	ILE	17	45.446	45.179	58.825	1.00	0.00	C
ATOM	273	HD11	ILE	17	46.308	44.805	58.274	1.00	0.00	H
ATOM	274	HD12	ILE	17	44.573	44.594	58.540	1.00	0.00	H
ATOM	275	HD13	ILE	17	45.610	45.053	59.895	1.00	0.00	H
ATOM	276	C	ILE	17	47.535	49.798	58.115	1.00	0.00	C
ATOM	277	O	ILE	17	48.496	49.449	57.423	1.00	0.00	O
ATOM	278	N	LYS	18	47.664	50.848	58.937	1.00	0.00	N
ATOM	279	H	LYS	18	46.916	51.023	59.599	1.00	0.00	H
ATOM	280	CA	LYS	18	48.862	51.727	58.918	1.00	0.00	C
ATOM	281	HA	LYS	18	48.962	52.119	57.905	1.00	0.00	H
ATOM	282	CB	LYS	18	48.679	52.919	59.876	1.00	0.00	C
ATOM	283	HB2	LYS	18	47.686	53.352	59.743	1.00	0.00	H
ATOM	284	HB3	LYS	18	48.755	52.550	60.895	1.00	0.00	H
ATOM	285	CG	LYS	18	49.739	54.019	59.646	1.00	0.00	C
ATOM	286	HG2	LYS	18	50.722	53.579	59.476	1.00	0.00	H
ATOM	287	HG3	LYS	18	49.463	54.579	58.752	1.00	0.00	H
ATOM	288	CD	LYS	18	49.855	54.990	60.829	1.00	0.00	C
ATOM	289	HD2	LYS	18	50.372	55.893	60.498	1.00	0.00	H
ATOM	290	HD3	LYS	18	48.854	55.266	61.163	1.00	0.00	H
ATOM	291	CE	LYS	18	50.655	54.381	61.991	1.00	0.00	C
ATOM	292	HE2	LYS	18	50.315	53.355	62.162	1.00	0.00	H
ATOM	293	HE3	LYS	18	51.712	54.351	61.714	1.00	0.00	H
ATOM	294	NZ	LYS	18	50.473	55.165	63.235	1.00	0.00	N
ATOM	295	HZ1	LYS	18	51.070	54.855	63.985	1.00	0.00	H
ATOM	296	HZ2	LYS	18	49.498	55.080	63.533	1.00	0.00	H
ATOM	297	HZ3	LYS	18	50.591	56.167	63.089	1.00	0.00	H
ATOM	298	C	LYS	18	50.160	50.971	59.271	1.00	0.00	C
ATOM	299	O	LYS	18	50.264	50.408	60.355	1.00	0.00	O
ATOM	300	N	GLY	19	51.173	51.035	58.397	1.00	0.00	N
ATOM	301	H	GLY	19	51.017	51.468	57.500	1.00	0.00	H
ATOM	302	CA	GLY	19	52.535	50.551	58.681	1.00	0.00	C
ATOM	303	HA2	GLY	19	53.182	50.846	57.854	1.00	0.00	H
ATOM	304	HA3	GLY	19	52.903	51.022	59.594	1.00	0.00	H
ATOM	305	C	GLY	19	52.674	49.031	58.843	1.00	0.00	C
ATOM	306	O	GLY	19	53.560	48.565	59.560	1.00	0.00	O
ATOM	307	N	PHE	20	51.806	48.255	58.190	1.00	0.00	N
ATOM	308	H	PHE	20	51.245	48.703	57.477	1.00	0.00	H
ATOM	309	CA	PHE	20	51.728	46.798	58.310	1.00	0.00	C
ATOM	310	HA	PHE	20	51.601	46.558	59.365	1.00	0.00	H

ATOM	311	CB	PHE	20	50.474	46.306	57.577	1.00	0.00	C
ATOM	312	HB2	PHE	20	49.616	46.866	57.948	1.00	0.00	H
ATOM	313	HB3	PHE	20	50.567	46.533	56.519	1.00	0.00	H
ATOM	314	CG	PHE	20	50.184	44.825	57.741	1.00	0.00	C
ATOM	315	CD1	PHE	20	49.296	44.388	58.742	1.00	0.00	C
ATOM	316	HD1	PHE	20	48.819	45.106	59.389	1.00	0.00	H
ATOM	317	CE1	PHE	20	49.020	43.019	58.894	1.00	0.00	C
ATOM	318	HE1	PHE	20	48.329	42.686	59.654	1.00	0.00	H
ATOM	319	CZ	PHE	20	49.633	42.083	58.044	1.00	0.00	C
ATOM	320	HZ	PHE	20	49.411	41.033	58.148	1.00	0.00	H
ATOM	321	CE2	PHE	20	50.521	42.511	57.045	1.00	0.00	C
ATOM	322	HE2	PHE	20	50.987	41.793	56.386	1.00	0.00	H
ATOM	323	CD2	PHE	20	50.795	43.880	56.895	1.00	0.00	C
ATOM	324	HD2	PHE	20	51.481	44.204	56.126	1.00	0.00	H
ATOM	325	C	PHE	20	53.016	46.086	57.852	1.00	0.00	C
ATOM	326	O	PHE	20	53.345	45.032	58.404	1.00	0.00	O
ATOM	327	N	THR	21	53.821	46.715	56.979	1.00	0.00	N
ATOM	328	H	THR	21	53.469	47.541	56.513	1.00	0.00	H
ATOM	329	CA	THR	21	55.207	46.301	56.684	1.00	0.00	C
ATOM	330	HA	THR	21	55.185	45.410	56.056	1.00	0.00	H
ATOM	331	CB	THR	21	55.980	47.402	55.925	1.00	0.00	C
ATOM	332	HB	THR	21	55.891	48.343	56.469	1.00	0.00	H
ATOM	333	CG2	THR	21	57.466	47.092	55.753	1.00	0.00	C
ATOM	334	HG21	THR	21	57.983	47.239	56.700	1.00	0.00	H
ATOM	335	HG22	THR	21	57.899	47.765	55.013	1.00	0.00	H
ATOM	336	HG23	THR	21	57.591	46.060	55.432	1.00	0.00	H
ATOM	337	OG1	THR	21	55.467	47.592	54.633	1.00	0.00	O
ATOM	338	HG1	THR	21	54.819	48.334	54.710	1.00	0.00	H
ATOM	339	C	THR	21	55.963	45.957	57.971	1.00	0.00	C
ATOM	340	O	THR	21	56.409	44.821	58.135	1.00	0.00	O
ATOM	341	N	SER	22	56.011	46.889	58.932	1.00	0.00	N
ATOM	342	H	SER	22	55.508	47.756	58.792	1.00	0.00	H
ATOM	343	CA	SER	22	56.762	46.743	60.188	1.00	0.00	C
ATOM	344	HA	SER	22	57.771	46.418	59.945	1.00	0.00	H
ATOM	345	CB	SER	22	56.874	48.093	60.907	1.00	0.00	C
ATOM	346	HB2	SER	22	55.879	48.436	61.198	1.00	0.00	H
ATOM	347	HB3	SER	22	57.482	47.972	61.805	1.00	0.00	H
ATOM	348	OG	SER	22	57.480	49.060	60.062	1.00	0.00	O
ATOM	349	HG	SER	22	58.223	48.625	59.620	1.00	0.00	H
ATOM	350	C	SER	22	56.195	45.692	61.150	1.00	0.00	C
ATOM	351	O	SER	22	56.880	45.305	62.094	1.00	0.00	O
ATOM	352	N	LEU	23	54.970	45.212	60.919	1.00	0.00	N
ATOM	353	H	LEU	23	54.471	45.557	60.108	1.00	0.00	H
ATOM	354	CA	LEU	23	54.391	44.084	61.650	1.00	0.00	C
ATOM	355	HA	LEU	23	54.771	44.091	62.673	1.00	0.00	H
ATOM	356	CB	LEU	23	52.857	44.243	61.711	1.00	0.00	C
ATOM	357	HB2	LEU	23	52.446	44.046	60.721	1.00	0.00	H
ATOM	358	HB3	LEU	23	52.461	43.491	62.395	1.00	0.00	H
ATOM	359	CG	LEU	23	52.363	45.637	62.158	1.00	0.00	C
ATOM	360	HG	LEU	23	52.674	46.383	61.427	1.00	0.00	H
ATOM	361	CD1	LEU	23	50.837	45.655	62.221	1.00	0.00	C
ATOM	362	HD11	LEU	23	50.425	45.316	61.272	1.00	0.00	H

ATOM	363	HD12 LEU	23	50.492	46.672	62.410	1.00	0.00	H
ATOM	364	HD13 LEU	23	50.493	45.004	63.022	1.00	0.00	H
ATOM	365	CD2 LEU	23	52.892	46.054	63.533	1.00	0.00	C
ATOM	366	HD21 LEU	23	52.592	45.329	64.287	1.00	0.00	H
ATOM	367	HD22 LEU	23	53.978	46.130	63.510	1.00	0.00	H
ATOM	368	HD23 LEU	23	52.490	47.032	63.797	1.00	0.00	H
ATOM	369	C LEU	23	54.845	42.756	61.016	1.00	0.00	C
ATOM	370	O LEU	23	55.294	41.853	61.727	1.00	0.00	O
ATOM	371	N SER	24	54.822	42.666	59.679	1.00	0.00	N
ATOM	372	H SER	24	54.445	43.452	59.158	1.00	0.00	H
ATOM	373	CA SER	24	55.355	41.516	58.925	1.00	0.00	C
ATOM	374	HA SER	24	54.892	40.615	59.323	1.00	0.00	H
ATOM	375	CB SER	24	54.954	41.631	57.445	1.00	0.00	C
ATOM	376	HB2 SER	24	55.055	40.647	56.984	1.00	0.00	H
ATOM	377	HB3 SER	24	53.906	41.928	57.380	1.00	0.00	H
ATOM	378	OG SER	24	55.743	42.545	56.704	1.00	0.00	O
ATOM	379	HG SER	24	55.908	43.350	57.228	1.00	0.00	H
ATOM	380	C SER	24	56.875	41.332	59.089	1.00	0.00	C
ATOM	381	O SER	24	57.370	40.205	59.125	1.00	0.00	O
ATOM	382	N ASP	25	57.605	42.431	59.296	1.00	0.00	N
ATOM	383	H ASP	25	57.152	43.326	59.151	1.00	0.00	H
ATOM	384	CA ASP	25	59.045	42.451	59.584	1.00	0.00	C
ATOM	385	HA ASP	25	59.576	41.931	58.785	1.00	0.00	H
ATOM	386	CB ASP	25	59.536	43.912	59.635	1.00	0.00	C
ATOM	387	HB2 ASP	25	58.943	44.452	60.374	1.00	0.00	H
ATOM	388	HB3 ASP	25	60.571	43.922	59.980	1.00	0.00	H
ATOM	389	CG ASP	25	59.509	44.686	58.318	1.00	0.00	C
ATOM	390	OD1 ASP	25	59.528	44.074	57.227	1.00	0.00	O
ATOM	391	OD2 ASP	25	59.574	45.935	58.383	1.00	0.00	O
ATOM	392	C ASP	25	59.440	41.784	60.917	1.00	0.00	C
ATOM	393	O ASP	25	60.634	41.583	61.150	1.00	0.00	O
ATOM	394	N LYS	26	58.489	41.520	61.831	1.00	0.00	N
ATOM	395	H LYS	26	57.529	41.716	61.574	1.00	0.00	H
ATOM	396	CA LYS	26	58.807	41.185	63.235	1.00	0.00	C
ATOM	397	HA LYS	26	59.844	40.851	63.284	1.00	0.00	H
ATOM	398	CB LYS	26	58.667	42.448	64.116	1.00	0.00	C
ATOM	399	HB2 LYS	26	57.618	42.750	64.117	1.00	0.00	H
ATOM	400	HB3 LYS	26	58.937	42.195	65.143	1.00	0.00	H
ATOM	401	CG LYS	26	59.506	43.669	63.683	1.00	0.00	C
ATOM	402	HG2 LYS	26	59.245	43.931	62.659	1.00	0.00	H
ATOM	403	HG3 LYS	26	59.222	44.518	64.307	1.00	0.00	H
ATOM	404	CD LYS	26	61.030	43.485	63.792	1.00	0.00	C
ATOM	405	HD2 LYS	26	61.327	43.572	64.838	1.00	0.00	H
ATOM	406	HD3 LYS	26	61.324	42.501	63.428	1.00	0.00	H
ATOM	407	CE LYS	26	61.734	44.556	62.947	1.00	0.00	C
ATOM	408	HE2 LYS	26	61.450	44.405	61.901	1.00	0.00	H
ATOM	409	HE3 LYS	26	61.378	45.542	63.256	1.00	0.00	H
ATOM	410	NZ LYS	26	63.209	44.491	63.077	1.00	0.00	N
ATOM	411	HZ1 LYS	26	63.670	45.183	62.489	1.00	0.00	H
ATOM	412	HZ2 LYS	26	63.571	43.572	62.839	1.00	0.00	H
ATOM	413	HZ3 LYS	26	63.497	44.657	64.038	1.00	0.00	H
ATOM	414	C LYS	26	58.006	40.029	63.841	1.00	0.00	C

ATOM	415	O	LYS	26	58.559	39.341	64.706	1.00	0.00	O
ATOM	416	N	MET	27	56.743	39.823	63.455	1.00	0.00	N
ATOM	417	H	MET	27	56.368	40.394	62.707	1.00	0.00	H
ATOM	418	CA	MET	27	55.794	39.010	64.238	1.00	0.00	C
ATOM	419	HA	MET	27	56.241	38.856	65.215	1.00	0.00	H
ATOM	420	CB	MET	27	54.501	39.802	64.476	1.00	0.00	C
ATOM	421	HB2	MET	27	53.985	39.947	63.526	1.00	0.00	H
ATOM	422	HB3	MET	27	53.846	39.227	65.132	1.00	0.00	H
ATOM	423	CG	MET	27	54.762	41.176	65.110	1.00	0.00	C
ATOM	424	HG2	MET	27	55.260	41.809	64.376	1.00	0.00	H
ATOM	425	HG3	MET	27	53.802	41.634	65.321	1.00	0.00	H
ATOM	426	SD	MET	27	55.757	41.205	66.634	1.00	0.00	S
ATOM	427	CE	MET	27	54.681	40.312	67.791	1.00	0.00	C
ATOM	428	HE1	MET	27	53.732	40.836	67.901	1.00	0.00	H
ATOM	429	HE2	MET	27	54.500	39.299	67.433	1.00	0.00	H
ATOM	430	HE3	MET	27	55.170	40.260	68.764	1.00	0.00	H
ATOM	431	C	MET	27	55.489	37.618	63.642	1.00	0.00	C
ATOM	432	O	MET	27	55.473	37.473	62.420	1.00	0.00	O
ATOM	433	N	PRO	28	55.199	36.589	64.474	1.00	0.00	N
ATOM	434	CD	PRO	28	55.270	36.581	65.932	1.00	0.00	C
ATOM	435	HD2	PRO	28	54.331	36.953	66.344	1.00	0.00	H
ATOM	436	HD3	PRO	28	56.108	37.163	66.314	1.00	0.00	H
ATOM	437	CG	PRO	28	55.465	35.119	66.325	1.00	0.00	C
ATOM	438	HG2	PRO	28	55.084	34.913	67.325	1.00	0.00	H
ATOM	439	HG3	PRO	28	56.521	34.856	66.253	1.00	0.00	H
ATOM	440	CB	PRO	28	54.675	34.380	65.250	1.00	0.00	C
ATOM	441	HB2	PRO	28	53.621	34.368	65.529	1.00	0.00	H
ATOM	442	HB3	PRO	28	55.042	33.363	65.108	1.00	0.00	H
ATOM	443	CA	PRO	28	54.879	35.240	63.997	1.00	0.00	C
ATOM	444	HA	PRO	28	55.742	34.863	63.446	1.00	0.00	H
ATOM	445	C	PRO	28	53.641	35.184	63.092	1.00	0.00	C
ATOM	446	O	PRO	28	52.660	35.897	63.313	1.00	0.00	O
ATOM	447	N	LEU	29	53.652	34.279	62.108	1.00	0.00	N
ATOM	448	H	LEU	29	54.481	33.716	61.998	1.00	0.00	H
ATOM	449	CA	LEU	29	52.633	34.208	61.053	1.00	0.00	C
ATOM	450	HA	LEU	29	52.654	35.170	60.548	1.00	0.00	H
ATOM	451	CB	LEU	29	53.029	33.132	60.019	1.00	0.00	C
ATOM	452	HB2	LEU	29	52.434	33.320	59.126	1.00	0.00	H
ATOM	453	HB3	LEU	29	54.071	33.294	59.750	1.00	0.00	H
ATOM	454	CG	LEU	29	52.832	31.643	60.379	1.00	0.00	C
ATOM	455	HG	LEU	29	51.780	31.457	60.593	1.00	0.00	H
ATOM	456	CD1	LEU	29	53.226	30.788	59.173	1.00	0.00	C
ATOM	457	HD11	LEU	29	52.661	31.100	58.296	1.00	0.00	H
ATOM	458	HD12	LEU	29	52.994	29.741	59.377	1.00	0.00	H
ATOM	459	HD13	LEU	29	54.292	30.883	58.974	1.00	0.00	H
ATOM	460	CD2	LEU	29	53.679	31.167	61.564	1.00	0.00	C
ATOM	461	HD21	LEU	29	54.733	31.384	61.385	1.00	0.00	H
ATOM	462	HD22	LEU	29	53.356	31.646	62.486	1.00	0.00	H
ATOM	463	HD23	LEU	29	53.553	30.092	61.686	1.00	0.00	H
ATOM	464	C	LEU	29	51.192	34.058	61.566	1.00	0.00	C
ATOM	465	O	LEU	29	50.302	34.790	61.136	1.00	0.00	O
ATOM	466	N	THR	30	50.964	33.183	62.546	1.00	0.00	N

ATOM	467	H	THR	30	51.714	32.580	62.850	1.00	0.00	H
ATOM	468	CA	THR	30	49.641	32.973	63.155	1.00	0.00	C
ATOM	469	HA	THR	30	48.918	32.767	62.366	1.00	0.00	H
ATOM	470	CB	THR	30	49.693	31.754	64.094	1.00	0.00	C
ATOM	471	HB	THR	30	50.327	31.988	64.947	1.00	0.00	H
ATOM	472	CG2	THR	30	48.324	31.310	64.608	1.00	0.00	C
ATOM	473	HG21	THR	30	47.654	31.124	63.768	1.00	0.00	H
ATOM	474	HG22	THR	30	47.896	32.080	65.249	1.00	0.00	H
ATOM	475	HG23	THR	30	48.429	30.396	65.194	1.00	0.00	H
ATOM	476	OG1	THR	30	50.248	30.652	63.414	1.00	0.00	O
ATOM	477	HG1	THR	30	50.285	29.926	64.045	1.00	0.00	H
ATOM	478	C	THR	30	49.157	34.212	63.921	1.00	0.00	C
ATOM	479	O	THR	30	47.954	34.432	64.047	1.00	0.00	O
ATOM	480	N	HID	31	50.078	35.041	64.426	1.00	0.00	N
ATOM	481	H	HID	31	51.052	34.870	64.213	1.00	0.00	H
ATOM	482	CA	HID	31	49.754	36.272	65.153	1.00	0.00	C
ATOM	483	HA	HID	31	48.856	36.106	65.750	1.00	0.00	H
ATOM	484	CB	HID	31	50.897	36.666	66.120	1.00	0.00	C
ATOM	485	HB2	HID	31	51.760	36.975	65.529	1.00	0.00	H
ATOM	486	HB3	HID	31	50.568	37.544	66.679	1.00	0.00	H
ATOM	487	CG	HID	31	51.387	35.634	67.130	1.00	0.00	C
ATOM	488	ND1	HID	31	52.215	35.895	68.206	1.00	0.00	N
ATOM	489	HD1	HID	31	52.495	36.803	68.581	1.00	0.00	H
ATOM	490	CE1	HID	31	52.523	34.732	68.803	1.00	0.00	C
ATOM	491	HE1	HID	31	53.137	34.641	69.691	1.00	0.00	H
ATOM	492	NE2	HID	31	51.953	33.705	68.157	1.00	0.00	N
ATOM	493	CD2	HID	31	51.212	34.271	67.117	1.00	0.00	C
ATOM	494	HD2	HID	31	50.631	33.702	66.411	1.00	0.00	H
ATOM	495	C	HID	31	49.438	37.403	64.156	1.00	0.00	C
ATOM	496	O	HID	31	48.494	38.163	64.362	1.00	0.00	O
ATOM	497	N	LEU	32	50.185	37.482	63.046	1.00	0.00	N
ATOM	498	H	LEU	32	50.964	36.838	62.950	1.00	0.00	H
ATOM	499	CA	LEU	32	49.991	38.485	61.998	1.00	0.00	C
ATOM	500	HA	LEU	32	49.916	39.458	62.484	1.00	0.00	H
ATOM	501	CB	LEU	32	51.230	38.481	61.082	1.00	0.00	C
ATOM	502	HB2	LEU	32	52.141	38.440	61.683	1.00	0.00	H
ATOM	503	HB3	LEU	32	51.197	37.584	60.462	1.00	0.00	H
ATOM	504	CG	LEU	32	51.279	39.726	60.180	1.00	0.00	C
ATOM	505	HG	LEU	32	50.283	39.935	59.805	1.00	0.00	H
ATOM	506	CD1	LEU	32	51.786	40.948	60.944	1.00	0.00	C
ATOM	507	HD11	LEU	32	51.134	41.165	61.786	1.00	0.00	H
ATOM	508	HD12	LEU	32	51.789	41.810	60.277	1.00	0.00	H
ATOM	509	HD13	LEU	32	52.796	40.763	61.308	1.00	0.00	H
ATOM	510	CD2	LEU	32	52.196	39.505	58.981	1.00	0.00	C
ATOM	511	HD21	LEU	32	53.181	39.190	59.321	1.00	0.00	H
ATOM	512	HD22	LEU	32	51.768	38.739	58.337	1.00	0.00	H
ATOM	513	HD23	LEU	32	52.279	40.426	58.406	1.00	0.00	H
ATOM	514	C	LEU	32	48.688	38.273	61.204	1.00	0.00	C
ATOM	515	O	LEU	32	47.943	39.227	60.979	1.00	0.00	O
ATOM	516	N	LEU	33	48.365	37.029	60.830	1.00	0.00	N
ATOM	517	H	LEU	33	49.034	36.284	61.006	1.00	0.00	H
ATOM	518	CA	LEU	33	47.117	36.700	60.123	1.00	0.00	C

ATOM	519	HA	LEU	33	47.058	37.308	59.220	1.00	0.00	H
ATOM	520	CB	LEU	33	47.128	35.214	59.720	1.00	0.00	C
ATOM	521	HB2	LEU	33	47.378	34.621	60.600	1.00	0.00	H
ATOM	522	HB3	LEU	33	46.128	34.921	59.394	1.00	0.00	H
ATOM	523	CG	LEU	33	48.125	34.903	58.588	1.00	0.00	C
ATOM	524	HG	LEU	33	49.066	35.412	58.783	1.00	0.00	H
ATOM	525	CD1	LEU	33	48.403	33.404	58.522	1.00	0.00	C
ATOM	526	HD11	LEU	33	48.810	33.063	59.473	1.00	0.00	H
ATOM	527	HD12	LEU	33	49.136	33.218	57.739	1.00	0.00	H
ATOM	528	HD13	LEU	33	47.481	32.864	58.300	1.00	0.00	H
ATOM	529	CD2	LEU	33	47.602	35.345	57.218	1.00	0.00	C
ATOM	530	HD21	LEU	33	46.670	34.828	56.984	1.00	0.00	H
ATOM	531	HD22	LEU	33	47.425	36.417	57.208	1.00	0.00	H
ATOM	532	HD23	LEU	33	48.340	35.112	56.450	1.00	0.00	H
ATOM	533	C	LEU	33	45.868	37.043	60.951	1.00	0.00	C
ATOM	534	O	LEU	33	44.888	37.537	60.396	1.00	0.00	O
ATOM	535	N	LYS	34	45.920	36.885	62.282	1.00	0.00	N
ATOM	536	H	LYS	34	46.756	36.479	62.681	1.00	0.00	H
ATOM	537	CA	LYS	34	44.837	37.312	63.187	1.00	0.00	C
ATOM	538	HA	LYS	34	43.901	36.875	62.831	1.00	0.00	H
ATOM	539	CB	LYS	34	45.099	36.799	64.615	1.00	0.00	C
ATOM	540	HB2	LYS	34	46.143	36.967	64.884	1.00	0.00	H
ATOM	541	HB3	LYS	34	44.473	37.359	65.313	1.00	0.00	H
ATOM	542	CG	LYS	34	44.751	35.307	64.758	1.00	0.00	C
ATOM	543	HG2	LYS	34	43.694	35.170	64.527	1.00	0.00	H
ATOM	544	HG3	LYS	34	45.337	34.723	64.048	1.00	0.00	H
ATOM	545	CD	LYS	34	45.020	34.797	66.182	1.00	0.00	C
ATOM	546	HD2	LYS	34	46.087	34.885	66.399	1.00	0.00	H
ATOM	547	HD3	LYS	34	44.460	35.407	66.894	1.00	0.00	H
ATOM	548	CE	LYS	34	44.583	33.332	66.312	1.00	0.00	C
ATOM	549	HE2	LYS	34	43.528	33.255	66.028	1.00	0.00	H
ATOM	550	HE3	LYS	34	45.163	32.730	65.607	1.00	0.00	H
ATOM	551	NZ	LYS	34	44.767	32.820	67.694	1.00	0.00	N
ATOM	552	HZ1	LYS	34	45.727	32.874	68.000	1.00	0.00	H
ATOM	553	HZ2	LYS	34	44.446	31.867	67.791	1.00	0.00	H
ATOM	554	HZ3	LYS	34	44.241	33.365	68.381	1.00	0.00	H
ATOM	555	C	LYS	34	44.587	38.829	63.176	1.00	0.00	C
ATOM	556	O	LYS	34	43.469	39.241	63.479	1.00	0.00	O
ATOM	557	N	LEU	35	45.565	39.662	62.793	1.00	0.00	N
ATOM	558	H	LEU	35	46.463	39.271	62.540	1.00	0.00	H
ATOM	559	CA	LEU	35	45.315	41.089	62.530	1.00	0.00	C
ATOM	560	HA	LEU	35	44.743	41.512	63.358	1.00	0.00	H
ATOM	561	CB	LEU	35	46.615	41.891	62.358	1.00	0.00	C
ATOM	562	HB2	LEU	35	47.076	41.608	61.412	1.00	0.00	H
ATOM	563	HB3	LEU	35	46.339	42.944	62.276	1.00	0.00	H
ATOM	564	CG	LEU	35	47.683	41.754	63.445	1.00	0.00	C
ATOM	565	HG	LEU	35	48.066	40.735	63.459	1.00	0.00	H
ATOM	566	CD1	LEU	35	48.813	42.708	63.058	1.00	0.00	C
ATOM	567	HD11	LEU	35	49.125	42.522	62.031	1.00	0.00	H
ATOM	568	HD12	LEU	35	49.673	42.550	63.695	1.00	0.00	H
ATOM	569	HD13	LEU	35	48.478	43.741	63.149	1.00	0.00	H
ATOM	570	CD2	LEU	35	47.136	42.110	64.828	1.00	0.00	C

ATOM	571	HD21	LEU	35	46.761	43.133	64.834	1.00	0.00	H
ATOM	572	HD22	LEU	35	46.337	41.420	65.093	1.00	0.00	H
ATOM	573	HD23	LEU	35	47.922	42.008	65.570	1.00	0.00	H
ATOM	574	C	LEU	35	44.494	41.284	61.255	1.00	0.00	C
ATOM	575	O	LEU	35	43.502	42.006	61.265	1.00	0.00	O
ATOM	576	N	LEU	36	44.925	40.642	60.165	1.00	0.00	N
ATOM	577	H	LEU	36	45.730	40.037	60.263	1.00	0.00	H
ATOM	578	CA	LEU	36	44.316	40.771	58.842	1.00	0.00	C
ATOM	579	HA	LEU	36	44.302	41.823	58.556	1.00	0.00	H
ATOM	580	CB	LEU	36	45.148	39.971	57.823	1.00	0.00	C
ATOM	581	HB2	LEU	36	45.317	38.969	58.220	1.00	0.00	H
ATOM	582	HB3	LEU	36	44.575	39.861	56.907	1.00	0.00	H
ATOM	583	CG	LEU	36	46.498	40.605	57.458	1.00	0.00	C
ATOM	584	HG	LEU	36	47.011	40.918	58.366	1.00	0.00	H
ATOM	585	CD1	LEU	36	47.364	39.569	56.740	1.00	0.00	C
ATOM	586	HD11	LEU	36	47.633	38.777	57.437	1.00	0.00	H
ATOM	587	HD12	LEU	36	48.276	40.033	56.368	1.00	0.00	H
ATOM	588	HD13	LEU	36	46.810	39.145	55.903	1.00	0.00	H
ATOM	589	CD2	LEU	36	46.324	41.810	56.530	1.00	0.00	C
ATOM	590	HD21	LEU	36	45.825	41.506	55.609	1.00	0.00	H
ATOM	591	HD22	LEU	36	45.734	42.582	57.020	1.00	0.00	H
ATOM	592	HD23	LEU	36	47.299	42.231	56.284	1.00	0.00	H
ATOM	593	C	LEU	36	42.860	40.297	58.851	1.00	0.00	C
ATOM	594	O	LEU	36	41.985	41.012	58.368	1.00	0.00	O
ATOM	595	N	GLU	37	42.586	39.126	59.432	1.00	0.00	N
ATOM	596	H	GLU	37	43.354	38.565	59.790	1.00	0.00	H
ATOM	597	CA	GLU	37	41.222	38.592	59.512	1.00	0.00	C
ATOM	598	HA	GLU	37	40.765	38.670	58.524	1.00	0.00	H
ATOM	599	CB	GLU	37	41.234	37.093	59.876	1.00	0.00	C
ATOM	600	HB2	GLU	37	41.718	36.943	60.842	1.00	0.00	H
ATOM	601	HB3	GLU	37	40.197	36.761	59.951	1.00	0.00	H
ATOM	602	CG	GLU	37	41.949	36.255	58.795	1.00	0.00	C
ATOM	603	HG2	GLU	37	41.850	36.765	57.833	1.00	0.00	H
ATOM	604	HG3	GLU	37	43.014	36.208	59.024	1.00	0.00	H
ATOM	605	CD	GLU	37	41.400	34.828	58.632	1.00	0.00	C
ATOM	606	OE1	GLU	37	41.125	34.132	59.645	1.00	0.00	O
ATOM	607	OE2	GLU	37	41.287	34.378	57.464	1.00	0.00	O
ATOM	608	C	GLU	37	40.321	39.421	60.445	1.00	0.00	C
ATOM	609	O	GLU	37	39.171	39.663	60.088	1.00	0.00	O
ATOM	610	N	GLN	38	40.817	39.946	61.580	1.00	0.00	N
ATOM	611	H	GLN	38	41.771	39.745	61.848	1.00	0.00	H
ATOM	612	CA	GLN	38	40.006	40.840	62.428	1.00	0.00	C
ATOM	613	HA	GLN	38	39.023	40.380	62.527	1.00	0.00	H
ATOM	614	CB	GLN	38	40.579	40.926	63.856	1.00	0.00	C
ATOM	615	HB2	GLN	38	40.674	39.913	64.250	1.00	0.00	H
ATOM	616	HB3	GLN	38	41.576	41.367	63.818	1.00	0.00	H
ATOM	617	CG	GLN	38	39.692	41.765	64.809	1.00	0.00	C
ATOM	618	HG2	GLN	38	40.211	42.692	65.055	1.00	0.00	H
ATOM	619	HG3	GLN	38	38.756	42.028	64.319	1.00	0.00	H
ATOM	620	CD	GLN	38	39.312	41.047	66.101	1.00	0.00	C
ATOM	621	OE1	GLN	38	39.856	41.304	67.172	1.00	0.00	O
ATOM	622	NE2	GLN	38	38.365	40.137	66.059	1.00	0.00	N

ATOM	623	HE21	GLN	38	38.085	39.655	66.899	1.00	0.00	H
ATOM	624	HE22	GLN	38	37.855	39.965	65.183	1.00	0.00	H
ATOM	625	C	GLN	38	39.784	42.230	61.791	1.00	0.00	C
ATOM	626	O	GLN	38	38.703	42.800	61.929	1.00	0.00	O
ATOM	627	N	PHE	39	40.752	42.782	61.053	1.00	0.00	N
ATOM	628	H	PHE	39	41.648	42.310	60.979	1.00	0.00	H
ATOM	629	CA	PHE	39	40.547	44.021	60.289	1.00	0.00	C
ATOM	630	HA	PHE	39	40.173	44.793	60.962	1.00	0.00	H
ATOM	631	CB	PHE	39	41.883	44.497	59.704	1.00	0.00	C
ATOM	632	HB2	PHE	39	42.565	44.725	60.525	1.00	0.00	H
ATOM	633	HB3	PHE	39	42.326	43.684	59.127	1.00	0.00	H
ATOM	634	CG	PHE	39	41.766	45.725	58.818	1.00	0.00	C
ATOM	635	CD1	PHE	39	41.435	46.971	59.385	1.00	0.00	C
ATOM	636	HD1	PHE	39	41.260	47.055	60.447	1.00	0.00	H
ATOM	637	CE1	PHE	39	41.327	48.111	58.570	1.00	0.00	C
ATOM	638	HE1	PHE	39	41.066	49.064	59.005	1.00	0.00	H
ATOM	639	CZ	PHE	39	41.554	48.015	57.186	1.00	0.00	C
ATOM	640	HZ	PHE	39	41.476	48.894	56.560	1.00	0.00	H
ATOM	641	CE2	PHE	39	41.880	46.773	56.616	1.00	0.00	C
ATOM	642	HE2	PHE	39	42.059	46.701	55.551	1.00	0.00	H
ATOM	643	CD2	PHE	39	41.982	45.629	57.429	1.00	0.00	C
ATOM	644	HD2	PHE	39	42.239	44.680	56.980	1.00	0.00	H
ATOM	645	C	PHE	39	39.489	43.835	59.190	1.00	0.00	C
ATOM	646	O	PHE	39	38.534	44.611	59.110	1.00	0.00	O
ATOM	647	N	PHE	40	39.609	42.757	58.406	1.00	0.00	N
ATOM	648	H	PHE	40	40.419	42.159	58.535	1.00	0.00	H
ATOM	649	CA	PHE	40	38.622	42.354	57.399	1.00	0.00	C
ATOM	650	HA	PHE	40	38.537	43.147	56.655	1.00	0.00	H
ATOM	651	CB	PHE	40	39.145	41.077	56.711	1.00	0.00	C
ATOM	652	HB2	PHE	40	40.187	41.261	56.447	1.00	0.00	H
ATOM	653	HB3	PHE	40	39.150	40.267	57.441	1.00	0.00	H
ATOM	654	CG	PHE	40	38.448	40.557	55.457	1.00	0.00	C
ATOM	655	CD1	PHE	40	39.228	40.231	54.331	1.00	0.00	C
ATOM	656	HD1	PHE	40	40.283	40.450	54.328	1.00	0.00	H
ATOM	657	CE1	PHE	40	38.661	39.571	53.227	1.00	0.00	C
ATOM	658	HE1	PHE	40	39.282	39.316	52.380	1.00	0.00	H
ATOM	659	CZ	PHE	40	37.294	39.252	53.227	1.00	0.00	C
ATOM	660	HZ	PHE	40	36.855	38.740	52.382	1.00	0.00	H
ATOM	661	CE2	PHE	40	36.490	39.641	54.310	1.00	0.00	C
ATOM	662	HE2	PHE	40	35.432	39.426	54.295	1.00	0.00	H
ATOM	663	CD2	PHE	40	37.068	40.273	55.427	1.00	0.00	C
ATOM	664	HD2	PHE	40	36.446	40.505	56.273	1.00	0.00	H
ATOM	665	C	PHE	40	37.240	42.160	58.043	1.00	0.00	C
ATOM	666	O	PHE	40	36.251	42.663	57.518	1.00	0.00	O
ATOM	667	N	GLU	41	37.161	41.474	59.188	1.00	0.00	N
ATOM	668	H	GLU	41	38.010	41.037	59.540	1.00	0.00	H
ATOM	669	CA	GLU	41	35.935	41.267	59.969	1.00	0.00	C
ATOM	670	HA	GLU	41	35.216	40.719	59.360	1.00	0.00	H
ATOM	671	CB	GLU	41	36.269	40.405	61.202	1.00	0.00	C
ATOM	672	HB2	GLU	41	36.575	39.414	60.863	1.00	0.00	H
ATOM	673	HB3	GLU	41	37.105	40.868	61.714	1.00	0.00	H
ATOM	674	CG	GLU	41	35.134	40.242	62.224	1.00	0.00	C



ATOM	675	HG2	GLU	41	34.808	41.224	62.572	1.00	0.00	H
ATOM	676	HG3	GLU	41	34.288	39.757	61.732	1.00	0.00	H
ATOM	677	CD	GLU	41	35.563	39.423	63.452	1.00	0.00	C
ATOM	678	OE1	GLU	41	36.742	39.481	63.883	1.00	0.00	O
ATOM	679	OE2	GLU	41	34.696	38.713	64.021	1.00	0.00	O
ATOM	680	C	GLU	41	35.265	42.588	60.368	1.00	0.00	C
ATOM	681	O	GLU	41	34.087	42.770	60.070	1.00	0.00	O
ATOM	682	N	ILE	42	36.000	43.517	60.994	1.00	0.00	N
ATOM	683	H	ILE	42	36.974	43.301	61.191	1.00	0.00	H
ATOM	684	CA	ILE	42	35.454	44.801	61.469	1.00	0.00	C
ATOM	685	HA	ILE	42	34.597	44.597	62.112	1.00	0.00	H
ATOM	686	CB	ILE	42	36.515	45.567	62.299	1.00	0.00	C
ATOM	687	HB	ILE	42	37.431	45.622	61.707	1.00	0.00	H
ATOM	688	CG2	ILE	42	36.058	47.006	62.613	1.00	0.00	C
ATOM	689	HG21	ILE	42	36.023	47.602	61.700	1.00	0.00	H
ATOM	690	HG22	ILE	42	36.752	47.491	63.296	1.00	0.00	H
ATOM	691	HG23	ILE	42	35.066	46.993	63.065	1.00	0.00	H
ATOM	692	CG1	ILE	42	36.825	44.835	63.627	1.00	0.00	C
ATOM	693	HG12	ILE	42	36.043	45.048	64.357	1.00	0.00	H
ATOM	694	HG13	ILE	42	36.831	43.758	63.466	1.00	0.00	H
ATOM	695	CD1	ILE	42	38.192	45.217	64.216	1.00	0.00	C
ATOM	696	HD11	ILE	42	38.980	45.026	63.487	1.00	0.00	H
ATOM	697	HD12	ILE	42	38.383	44.613	65.103	1.00	0.00	H
ATOM	698	HD13	ILE	42	38.212	46.269	64.496	1.00	0.00	H
ATOM	699	C	ILE	42	34.932	45.642	60.295	1.00	0.00	C
ATOM	700	O	ILE	42	33.814	46.157	60.351	1.00	0.00	O
ATOM	701	N	VAL	43	35.715	45.753	59.216	1.00	0.00	N
ATOM	702	H	VAL	43	36.623	45.296	59.228	1.00	0.00	H
ATOM	703	CA	VAL	43	35.317	46.502	58.013	1.00	0.00	C
ATOM	704	HA	VAL	43	34.989	47.496	58.319	1.00	0.00	H
ATOM	705	CB	VAL	43	36.526	46.672	57.067	1.00	0.00	C
ATOM	706	HB	VAL	43	36.960	45.692	56.861	1.00	0.00	H
ATOM	707	CG1	VAL	43	36.147	47.319	55.730	1.00	0.00	C
ATOM	708	HG11	VAL	43	37.044	47.496	55.135	1.00	0.00	H
ATOM	709	HG12	VAL	43	35.494	46.658	55.165	1.00	0.00	H
ATOM	710	HG13	VAL	43	35.643	48.269	55.906	1.00	0.00	H
ATOM	711	CG2	VAL	43	37.597	47.565	57.711	1.00	0.00	C
ATOM	712	HG21	VAL	43	37.195	48.560	57.902	1.00	0.00	H
ATOM	713	HG22	VAL	43	38.457	47.650	57.045	1.00	0.00	H
ATOM	714	HG23	VAL	43	37.943	47.133	58.649	1.00	0.00	H
ATOM	715	C	VAL	43	34.117	45.841	57.318	1.00	0.00	C
ATOM	716	O	VAL	43	33.213	46.539	56.858	1.00	0.00	O
ATOM	717	N	CYS	44	34.066	44.507	57.264	1.00	0.00	N
ATOM	718	H	CYS	44	34.833	43.985	57.676	1.00	0.00	H
ATOM	719	CA	CYS	44	32.977	43.742	56.648	1.00	0.00	C
ATOM	720	HA	CYS	44	32.776	44.152	55.660	1.00	0.00	H
ATOM	721	CB	CYS	44	33.447	42.285	56.497	1.00	0.00	C
ATOM	722	HB2	CYS	44	34.361	42.263	55.902	1.00	0.00	H
ATOM	723	HB3	CYS	44	33.679	41.883	57.486	1.00	0.00	H
ATOM	724	SG	CYS	44	32.192	41.233	55.711	1.00	0.00	S
ATOM	725	HG	CYS	44	31.938	42.025	54.665	1.00	0.00	H
ATOM	726	C	CYS	44	31.656	43.844	57.418	1.00	0.00	C

ATOM	727	O	CYS	44	30.633	44.173	56.815	1.00	0.00	O
ATOM	728	N	ASP	45	31.681	43.582	58.726	1.00	0.00	N
ATOM	729	H	ASP	45	32.574	43.362	59.161	1.00	0.00	H
ATOM	730	CA	ASP	45	30.488	43.509	59.575	1.00	0.00	C
ATOM	731	HA	ASP	45	29.800	42.775	59.151	1.00	0.00	H
ATOM	732	CB	ASP	45	30.914	43.025	60.973	1.00	0.00	C
ATOM	733	HB2	ASP	45	31.502	42.113	60.862	1.00	0.00	H
ATOM	734	HB3	ASP	45	31.553	43.781	61.433	1.00	0.00	H
ATOM	735	CG	ASP	45	29.746	42.705	61.912	1.00	0.00	C
ATOM	736	OD1	ASP	45	28.794	41.983	61.533	1.00	0.00	O
ATOM	737	OD2	ASP	45	29.761	43.154	63.080	1.00	0.00	O
ATOM	738	C	ASP	45	29.748	44.855	59.631	1.00	0.00	C
ATOM	739	O	ASP	45	28.524	44.886	59.545	1.00	0.00	O
ATOM	740	N	GLU	46	30.470	45.978	59.702	1.00	0.00	N
ATOM	741	H	GLU	46	31.477	45.906	59.797	1.00	0.00	H
ATOM	742	CA	GLU	46	29.855	47.305	59.612	1.00	0.00	C
ATOM	743	HA	GLU	46	28.913	47.288	60.159	1.00	0.00	H
ATOM	744	CB	GLU	46	30.766	48.352	60.273	1.00	0.00	C
ATOM	745	HB2	GLU	46	31.785	48.240	59.897	1.00	0.00	H
ATOM	746	HB3	GLU	46	30.428	49.341	59.984	1.00	0.00	H
ATOM	747	CG	GLU	46	30.780	48.277	61.813	1.00	0.00	C
ATOM	748	HG2	GLU	46	31.337	47.386	62.111	1.00	0.00	H
ATOM	749	HG3	GLU	46	31.325	49.142	62.197	1.00	0.00	H
ATOM	750	CD	GLU	46	29.380	48.236	62.454	1.00	0.00	C
ATOM	751	OE1	GLU	46	28.626	49.237	62.406	1.00	0.00	O
ATOM	752	OE2	GLU	46	29.000	47.187	63.022	1.00	0.00	O
ATOM	753	C	GLU	46	29.457	47.687	58.175	1.00	0.00	C
ATOM	754	O	GLU	46	28.320	48.111	57.967	1.00	0.00	O
ATOM	755	N	THR	47	30.307	47.481	57.158	1.00	0.00	N
ATOM	756	H	THR	47	31.220	47.084	57.349	1.00	0.00	H
ATOM	757	CA	THR	47	29.958	47.871	55.773	1.00	0.00	C
ATOM	758	HA	THR	47	29.739	48.939	55.772	1.00	0.00	H
ATOM	759	CB	THR	47	31.108	47.637	54.781	1.00	0.00	C
ATOM	760	HB	THR	47	31.354	46.575	54.747	1.00	0.00	H
ATOM	761	CG2	THR	47	30.770	48.114	53.368	1.00	0.00	C
ATOM	762	HG21	THR	47	30.357	49.123	53.408	1.00	0.00	H
ATOM	763	HG22	THR	47	30.050	47.439	52.909	1.00	0.00	H
ATOM	764	HG23	THR	47	31.670	48.129	52.763	1.00	0.00	H
ATOM	765	OG1	THR	47	32.255	48.354	55.156	1.00	0.00	O
ATOM	766	HG1	THR	47	32.656	47.859	55.894	1.00	0.00	H
ATOM	767	C	THR	47	28.706	47.151	55.257	1.00	0.00	C
ATOM	768	O	THR	47	27.882	47.775	54.586	1.00	0.00	O
ATOM	769	N	GLU	48	28.528	45.864	55.587	1.00	0.00	N
ATOM	770	H	GLU	48	29.233	45.404	56.161	1.00	0.00	H
ATOM	771	CA	GLU	48	27.337	45.089	55.205	1.00	0.00	C
ATOM	772	HA	GLU	48	27.237	45.130	54.119	1.00	0.00	H
ATOM	773	CB	GLU	48	27.508	43.609	55.617	1.00	0.00	C
ATOM	774	HB2	GLU	48	28.414	43.221	55.148	1.00	0.00	H
ATOM	775	HB3	GLU	48	27.624	43.545	56.700	1.00	0.00	H
ATOM	776	CG	GLU	48	26.318	42.732	55.181	1.00	0.00	C
ATOM	777	HG2	GLU	48	25.422	43.049	55.719	1.00	0.00	H
ATOM	778	HG3	GLU	48	26.143	42.892	54.115	1.00	0.00	H

ATOM	779	CD	GLU	48	26.534	41.230	55.440	1.00	0.00	C
ATOM	780	OE1	GLU	48	26.755	40.821	56.605	1.00	0.00	O
ATOM	781	OE2	GLU	48	26.416	40.421	54.487	1.00	0.00	O
ATOM	782	C	GLU	48	26.050	45.691	55.794	1.00	0.00	C
ATOM	783	O	GLU	48	25.059	45.836	55.073	1.00	0.00	O
ATOM	784	N	LYS	49	26.074	46.091	57.076	1.00	0.00	N
ATOM	785	H	LYS	49	26.943	45.974	57.588	1.00	0.00	H
ATOM	786	CA	LYS	49	24.953	46.769	57.758	1.00	0.00	C
ATOM	787	HA	LYS	49	24.040	46.185	57.635	1.00	0.00	H
ATOM	788	CB	LYS	49	25.264	46.930	59.258	1.00	0.00	C
ATOM	789	HB2	LYS	49	26.189	47.500	59.350	1.00	0.00	H
ATOM	790	HB3	LYS	49	24.469	47.514	59.726	1.00	0.00	H
ATOM	791	CG	LYS	49	25.407	45.609	60.032	1.00	0.00	C
ATOM	792	HG2	LYS	49	24.424	45.164	60.193	1.00	0.00	H
ATOM	793	HG3	LYS	49	26.005	44.909	59.451	1.00	0.00	H
ATOM	794	CD	LYS	49	26.094	45.864	61.384	1.00	0.00	C
ATOM	795	HD2	LYS	49	26.934	46.543	61.229	1.00	0.00	H
ATOM	796	HD3	LYS	49	25.394	46.333	62.078	1.00	0.00	H
ATOM	797	CE	LYS	49	26.646	44.567	61.982	1.00	0.00	C
ATOM	798	HE2	LYS	49	25.828	43.937	62.342	1.00	0.00	H
ATOM	799	HE3	LYS	49	27.171	44.022	61.191	1.00	0.00	H
ATOM	800	NZ	LYS	49	27.606	44.856	63.069	1.00	0.00	N
ATOM	801	HZ1	LYS	49	28.173	44.040	63.292	1.00	0.00	H
ATOM	802	HZ2	LYS	49	27.166	45.211	63.909	1.00	0.00	H
ATOM	803	HZ3	LYS	49	28.270	45.579	62.787	1.00	0.00	H
ATOM	804	C	LYS	49	24.684	48.149	57.158	1.00	0.00	C
ATOM	805	O	LYS	49	23.534	48.544	56.993	1.00	0.00	O
ATOM	806	N	HIE	50	25.735	48.894	56.813	1.00	0.00	N
ATOM	807	H	HIE	50	26.658	48.513	57.009	1.00	0.00	H
ATOM	808	CA	HIE	50	25.656	50.276	56.316	1.00	0.00	C
ATOM	809	HA	HIE	50	24.840	50.775	56.839	1.00	0.00	H
ATOM	810	CB	HIE	50	26.947	51.033	56.665	1.00	0.00	C
ATOM	811	HB2	HIE	50	27.765	50.607	56.082	1.00	0.00	H
ATOM	812	HB3	HIE	50	26.836	52.077	56.368	1.00	0.00	H
ATOM	813	CG	HIE	50	27.364	51.021	58.119	1.00	0.00	C
ATOM	814	ND1	HIE	50	28.614	51.451	58.552	1.00	0.00	N
ATOM	815	CE1	HIE	50	28.663	51.199	59.864	1.00	0.00	C
ATOM	816	HE1	HIE	50	29.534	51.341	60.489	1.00	0.00	H
ATOM	817	NE2	HIE	50	27.524	50.634	60.277	1.00	0.00	N
ATOM	818	HE2	HIE	50	27.447	50.166	61.181	1.00	0.00	H
ATOM	819	CD2	HIE	50	26.674	50.538	59.198	1.00	0.00	C
ATOM	820	HD2	HIE	50	25.695	50.083	59.188	1.00	0.00	H
ATOM	821	C	HIE	50	25.305	50.360	54.819	1.00	0.00	C
ATOM	822	O	HIE	50	25.749	51.274	54.123	1.00	0.00	O
ATOM	823	N	SER	51	24.518	49.408	54.304	1.00	0.00	N
ATOM	824	H	SER	51	24.170	48.718	54.961	1.00	0.00	H
ATOM	825	CA	SER	51	24.072	49.261	52.902	1.00	0.00	C
ATOM	826	HA	SER	51	23.474	48.350	52.873	1.00	0.00	H
ATOM	827	CB	SER	51	23.127	50.410	52.512	1.00	0.00	C
ATOM	828	HB2	SER	51	22.607	50.152	51.587	1.00	0.00	H
ATOM	829	HB3	SER	51	22.384	50.550	53.299	1.00	0.00	H
ATOM	830	OG	SER	51	23.846	51.616	52.316	1.00	0.00	O

ATOM	831	HG	SER	51	24.516	51.649	53.029	1.00	0.00	H
ATOM	832	C	SER	51	25.175	49.048	51.848	1.00	0.00	C
ATOM	833	O	SER	51	24.872	49.012	50.653	1.00	0.00	O
ATOM	834	N	GLY	52	26.438	48.907	52.254	1.00	0.00	N
ATOM	835	H	GLY	52	26.624	48.824	53.246	1.00	0.00	H
ATOM	836	CA	GLY	52	27.570	48.717	51.348	1.00	0.00	C
ATOM	837	HA2	GLY	52	27.398	49.270	50.423	1.00	0.00	H
ATOM	838	HA3	GLY	52	28.469	49.123	51.809	1.00	0.00	H
ATOM	839	C	GLY	52	27.828	47.252	51.000	1.00	0.00	C
ATOM	840	O	GLY	52	27.218	46.333	51.559	1.00	0.00	O
ATOM	841	N	LYS	53	28.775	47.033	50.083	1.00	0.00	N
ATOM	842	H	LYS	53	29.157	47.852	49.612	1.00	0.00	H
ATOM	843	CA	LYS	53	29.222	45.705	49.639	1.00	0.00	C
ATOM	844	HA	LYS	53	28.978	44.971	50.409	1.00	0.00	H
ATOM	845	CB	LYS	53	28.439	45.339	48.363	1.00	0.00	C
ATOM	846	HB2	LYS	53	27.371	45.417	48.578	1.00	0.00	H
ATOM	847	HB3	LYS	53	28.678	46.058	47.578	1.00	0.00	H
ATOM	848	CG	LYS	53	28.728	43.918	47.854	1.00	0.00	C
ATOM	849	HG2	LYS	53	29.787	43.824	47.610	1.00	0.00	H
ATOM	850	HG3	LYS	53	28.478	43.199	48.635	1.00	0.00	H
ATOM	851	CD	LYS	53	27.897	43.618	46.598	1.00	0.00	C
ATOM	852	HD2	LYS	53	26.835	43.732	46.831	1.00	0.00	H
ATOM	853	HD3	LYS	53	28.165	44.328	45.814	1.00	0.00	H
ATOM	854	CE	LYS	53	28.157	42.188	46.109	1.00	0.00	C
ATOM	855	HE2	LYS	53	29.229	42.062	45.934	1.00	0.00	H
ATOM	856	HE3	LYS	53	27.858	41.489	46.896	1.00	0.00	H
ATOM	857	NZ	LYS	53	27.402	41.892	44.868	1.00	0.00	N
ATOM	858	HZ1	LYS	53	26.395	42.005	45.004	1.00	0.00	H
ATOM	859	HZ2	LYS	53	27.538	40.924	44.580	1.00	0.00	H
ATOM	860	HZ3	LYS	53	27.668	42.493	44.106	1.00	0.00	H
ATOM	861	C	LYS	53	30.736	45.698	49.426	1.00	0.00	C
ATOM	862	O	LYS	53	31.233	46.379	48.529	1.00	0.00	O
ATOM	863	N	LEU	54	31.472	44.926	50.236	1.00	0.00	N
ATOM	864	H	LEU	54	31.002	44.393	50.948	1.00	0.00	H
ATOM	865	CA	LEU	54	32.902	44.675	49.996	1.00	0.00	C
ATOM	866	HA	LEU	54	33.419	45.627	49.888	1.00	0.00	H
ATOM	867	CB	LEU	54	33.570	43.912	51.155	1.00	0.00	C
ATOM	868	HB2	LEU	54	33.141	42.910	51.210	1.00	0.00	H
ATOM	869	HB3	LEU	54	34.621	43.805	50.880	1.00	0.00	H
ATOM	870	CG	LEU	54	33.508	44.537	52.564	1.00	0.00	C
ATOM	871	HG	LEU	54	32.513	44.386	52.984	1.00	0.00	H
ATOM	872	CD1	LEU	54	34.542	43.856	53.460	1.00	0.00	C
ATOM	873	HD11	LEU	54	34.287	42.807	53.589	1.00	0.00	H
ATOM	874	HD12	LEU	54	34.573	44.341	54.434	1.00	0.00	H
ATOM	875	HD13	LEU	54	35.531	43.959	53.019	1.00	0.00	H
ATOM	876	CD2	LEU	54	33.826	46.025	52.586	1.00	0.00	C
ATOM	877	HD21	LEU	54	34.801	46.218	52.135	1.00	0.00	H
ATOM	878	HD22	LEU	54	33.050	46.554	52.050	1.00	0.00	H
ATOM	879	HD23	LEU	54	33.821	46.395	53.611	1.00	0.00	H
ATOM	880	C	LEU	54	33.072	43.914	48.674	1.00	0.00	C
ATOM	881	O	LEU	54	32.399	42.902	48.456	1.00	0.00	O
ATOM	882	N	GLY	55	33.942	44.415	47.797	1.00	0.00	N

ATOM	883	H	GLY	55	34.501	45.213	48.081	1.00	0.00	H
ATOM	884	CA	GLY	55	34.090	43.920	46.426	1.00	0.00	C
ATOM	885	HA2	GLY	55	33.306	43.199	46.189	1.00	0.00	H
ATOM	886	HA3	GLY	55	33.984	44.763	45.743	1.00	0.00	H
ATOM	887	C	GLY	55	35.438	43.263	46.143	1.00	0.00	C
ATOM	888	O	GLY	55	35.485	42.265	45.430	1.00	0.00	O
ATOM	889	N	THR	56	36.533	43.800	46.690	1.00	0.00	N
ATOM	890	H	THR	56	36.438	44.581	47.331	1.00	0.00	H
ATOM	891	CA	THR	56	37.897	43.303	46.437	1.00	0.00	C
ATOM	892	HA	THR	56	37.850	42.223	46.297	1.00	0.00	H
ATOM	893	CB	THR	56	38.515	43.905	45.157	1.00	0.00	C
ATOM	894	HB	THR	56	39.512	43.482	45.042	1.00	0.00	H
ATOM	895	CG2	THR	56	37.758	43.638	43.856	1.00	0.00	C
ATOM	896	HG21	THR	56	38.340	44.016	43.016	1.00	0.00	H
ATOM	897	HG22	THR	56	36.790	44.134	43.868	1.00	0.00	H
ATOM	898	HG23	THR	56	37.617	42.564	43.730	1.00	0.00	H
ATOM	899	OG1	THR	56	38.643	45.297	45.267	1.00	0.00	O
ATOM	900	HG1	THR	56	37.762	45.687	45.295	1.00	0.00	H
ATOM	901	C	THR	56	38.833	43.556	47.624	1.00	0.00	C
ATOM	902	O	THR	56	38.551	44.379	48.498	1.00	0.00	O
ATOM	903	N	TYR	57	39.955	42.832	47.639	1.00	0.00	N
ATOM	904	H	TYR	57	40.159	42.241	46.847	1.00	0.00	H
ATOM	905	CA	TYR	57	40.977	42.849	48.688	1.00	0.00	C
ATOM	906	HA	TYR	57	40.895	43.776	49.256	1.00	0.00	H
ATOM	907	CB	TYR	57	40.773	41.666	49.645	1.00	0.00	C
ATOM	908	HB2	TYR	57	41.030	40.741	49.127	1.00	0.00	H
ATOM	909	HB3	TYR	57	41.459	41.773	50.487	1.00	0.00	H
ATOM	910	CG	TYR	57	39.358	41.551	50.172	1.00	0.00	C
ATOM	911	CD1	TYR	57	38.421	40.735	49.508	1.00	0.00	C
ATOM	912	HD1	TYR	57	38.720	40.168	48.638	1.00	0.00	H
ATOM	913	CE1	TYR	57	37.089	40.683	49.960	1.00	0.00	C
ATOM	914	HE1	TYR	57	36.359	40.069	49.457	1.00	0.00	H
ATOM	915	CZ	TYR	57	36.705	41.431	51.090	1.00	0.00	C
ATOM	916	OH	TYR	57	35.443	41.309	51.575	1.00	0.00	O
ATOM	917	HH	TYR	57	35.416	41.630	52.479	1.00	0.00	H
ATOM	918	CE2	TYR	57	37.649	42.243	51.760	1.00	0.00	C
ATOM	919	HE2	TYR	57	37.374	42.791	52.646	1.00	0.00	H
ATOM	920	CD2	TYR	57	38.971	42.309	51.292	1.00	0.00	C
ATOM	921	HD2	TYR	57	39.696	42.937	51.795	1.00	0.00	H
ATOM	922	C	TYR	57	42.366	42.788	48.049	1.00	0.00	C
ATOM	923	O	TYR	57	42.529	42.189	46.986	1.00	0.00	O
ATOM	924	N	LEU	58	43.363	43.400	48.686	1.00	0.00	N
ATOM	925	H	LEU	58	43.145	43.870	49.563	1.00	0.00	H
ATOM	926	CA	LEU	58	44.710	43.569	48.141	1.00	0.00	C
ATOM	927	HA	LEU	58	44.944	42.714	47.504	1.00	0.00	H
ATOM	928	CB	LEU	58	44.719	44.847	47.269	1.00	0.00	C
ATOM	929	HB2	LEU	58	43.869	44.824	46.588	1.00	0.00	H
ATOM	930	HB3	LEU	58	44.595	45.712	47.923	1.00	0.00	H
ATOM	931	CG	LEU	58	46.015	45.000	46.453	1.00	0.00	C
ATOM	932	HG	LEU	58	46.830	44.606	47.041	1.00	0.00	H
ATOM	933	CD1	LEU	58	45.971	44.215	45.139	1.00	0.00	C
ATOM	934	HD11	LEU	58	45.624	43.199	45.323	1.00	0.00	H

ATOM	935	HD12 LEU	58	46.968	44.184	44.701	1.00	0.00	H
ATOM	936	HD13 LEU	58	45.298	44.670	44.424	1.00	0.00	H
ATOM	937	CD2 LEU	58	46.352	46.465	46.169	1.00	0.00	C
ATOM	938	HD21 LEU	58	45.533	46.957	45.654	1.00	0.00	H
ATOM	939	HD22 LEU	58	46.524	46.984	47.113	1.00	0.00	H
ATOM	940	HD23 LEU	58	47.248	46.526	45.553	1.00	0.00	H
ATOM	941	C LEU	58	45.736	43.595	49.286	1.00	0.00	C
ATOM	942	O LEU	58	46.184	44.654	49.725	1.00	0.00	O
ATOM	943	N GLY	59	46.085	42.420	49.811	1.00	0.00	N
ATOM	944	H GLY	59	45.649	41.584	49.453	1.00	0.00	H
ATOM	945	CA GLY	59	46.894	42.315	51.028	1.00	0.00	C
ATOM	946	HA2 GLY	59	47.160	41.276	51.210	1.00	0.00	H
ATOM	947	HA3 GLY	59	47.807	42.894	50.907	1.00	0.00	H
ATOM	948	C GLY	59	46.143	42.843	52.245	1.00	0.00	C
ATOM	949	O GLY	59	45.031	42.402	52.515	1.00	0.00	O
ATOM	950	N ASP	60	46.727	43.814	52.951	1.00	0.00	N
ATOM	951	H ASP	60	47.630	44.162	52.671	1.00	0.00	H
ATOM	952	CA ASP	60	46.039	44.539	54.028	1.00	0.00	C
ATOM	953	HA ASP	60	45.507	43.811	54.641	1.00	0.00	H
ATOM	954	CB ASP	60	47.063	45.251	54.925	1.00	0.00	C
ATOM	955	HB2 ASP	60	46.581	45.463	55.880	1.00	0.00	H
ATOM	956	HB3 ASP	60	47.899	44.580	55.127	1.00	0.00	H
ATOM	957	CG ASP	60	47.600	46.567	54.352	1.00	0.00	C
ATOM	958	OD1 ASP	60	47.907	46.678	53.126	1.00	0.00	O
ATOM	959	OD2 ASP	60	47.766	47.528	55.150	1.00	0.00	O
ATOM	960	C ASP	60	44.987	45.550	53.528	1.00	0.00	C
ATOM	961	O ASP	60	44.305	46.164	54.345	1.00	0.00	O
ATOM	962	N GLY	61	44.880	45.763	52.211	1.00	0.00	N
ATOM	963	H GLY	61	45.477	45.235	51.590	1.00	0.00	H
ATOM	964	CA GLY	61	43.926	46.687	51.607	1.00	0.00	C
ATOM	965	HA2 GLY	61	43.818	47.545	52.263	1.00	0.00	H
ATOM	966	HA3 GLY	61	44.318	47.044	50.656	1.00	0.00	H
ATOM	967	C GLY	61	42.551	46.059	51.355	1.00	0.00	C
ATOM	968	O GLY	61	42.460	44.913	50.909	1.00	0.00	O
ATOM	969	N ALA	62	41.481	46.827	51.560	1.00	0.00	N
ATOM	970	H ALA	62	41.634	47.754	51.950	1.00	0.00	H
ATOM	971	CA ALA	62	40.102	46.441	51.256	1.00	0.00	C
ATOM	972	HA ALA	62	40.118	45.566	50.604	1.00	0.00	H
ATOM	973	CB ALA	62	39.395	46.029	52.553	1.00	0.00	C
ATOM	974	HB1 ALA	62	39.941	45.213	53.029	1.00	0.00	H
ATOM	975	HB2 ALA	62	38.379	45.700	52.333	1.00	0.00	H
ATOM	976	HB3 ALA	62	39.356	46.875	53.240	1.00	0.00	H
ATOM	977	C ALA	62	39.348	47.549	50.498	1.00	0.00	C
ATOM	978	O ALA	62	39.549	48.743	50.736	1.00	0.00	O
ATOM	979	N MET	63	38.462	47.136	49.586	1.00	0.00	N
ATOM	980	H MET	63	38.365	46.137	49.432	1.00	0.00	H
ATOM	981	CA MET	63	37.668	48.013	48.720	1.00	0.00	C
ATOM	982	HA MET	63	37.696	49.026	49.124	1.00	0.00	H
ATOM	983	CB MET	63	38.314	48.059	47.322	1.00	0.00	C
ATOM	984	HB2 MET	63	39.201	48.688	47.392	1.00	0.00	H
ATOM	985	HB3 MET	63	38.650	47.060	47.056	1.00	0.00	H
ATOM	986	CG MET	63	37.431	48.597	46.182	1.00	0.00	C

ATOM	987	HG2 MET	63	36.897	49.482	46.526	1.00	0.00	H
ATOM	988	HG3 MET	63	38.092	48.912	45.375	1.00	0.00	H
ATOM	989	SD MET	63	36.240	47.410	45.476	1.00	0.00	S
ATOM	990	CE MET	63	35.485	48.456	44.201	1.00	0.00	C
ATOM	991	HE1 MET	63	34.686	47.907	43.703	1.00	0.00	H
ATOM	992	HE2 MET	63	35.074	49.356	44.661	1.00	0.00	H
ATOM	993	HE3 MET	63	36.237	48.735	43.463	1.00	0.00	H
ATOM	994	C MET	63	36.195	47.586	48.701	1.00	0.00	C
ATOM	995	O MET	63	35.859	46.396	48.717	1.00	0.00	O
ATOM	996	N CYS	64	35.303	48.574	48.639	1.00	0.00	N
ATOM	997	H CYS	64	35.640	49.524	48.561	1.00	0.00	H
ATOM	998	CA CYS	64	33.856	48.377	48.638	1.00	0.00	C
ATOM	999	HA CYS	64	33.645	47.405	48.193	1.00	0.00	H
ATOM	1000	CB CYS	64	33.344	48.352	50.092	1.00	0.00	C
ATOM	1001	HB2 CYS	64	32.577	47.590	50.176	1.00	0.00	H
ATOM	1002	HB3 CYS	64	34.163	48.097	50.763	1.00	0.00	H
ATOM	1003	SG CYS	64	32.582	49.904	50.628	1.00	0.00	S
ATOM	1004	HG CYS	64	32.416	49.608	51.924	1.00	0.00	H
ATOM	1005	C CYS	64	33.124	49.408	47.775	1.00	0.00	C
ATOM	1006	O CYS	64	33.697	50.428	47.377	1.00	0.00	O
ATOM	1007	N ILE	65	31.840	49.134	47.532	1.00	0.00	N
ATOM	1008	H ILE	65	31.455	48.278	47.916	1.00	0.00	H
ATOM	1009	CA ILE	65	30.902	50.063	46.901	1.00	0.00	C
ATOM	1010	HA ILE	65	31.414	51.016	46.770	1.00	0.00	H
ATOM	1011	CB ILE	65	30.489	49.586	45.484	1.00	0.00	C
ATOM	1012	HB ILE	65	30.031	50.444	44.988	1.00	0.00	H
ATOM	1013	CG2 ILE	65	31.724	49.184	44.658	1.00	0.00	C
ATOM	1014	HG21 ILE	65	32.523	49.907	44.808	1.00	0.00	H
ATOM	1015	HG22 ILE	65	31.465	49.167	43.603	1.00	0.00	H
ATOM	1016	HG23 ILE	65	32.083	48.199	44.961	1.00	0.00	H
ATOM	1017	CG1 ILE	65	29.439	48.447	45.490	1.00	0.00	C
ATOM	1018	HG12 ILE	65	29.848	47.582	46.015	1.00	0.00	H
ATOM	1019	HG13 ILE	65	28.549	48.780	46.023	1.00	0.00	H
ATOM	1020	CD1 ILE	65	28.977	48.005	44.094	1.00	0.00	C
ATOM	1021	HD11 ILE	65	28.624	48.869	43.529	1.00	0.00	H
ATOM	1022	HD12 ILE	65	28.159	47.292	44.196	1.00	0.00	H
ATOM	1023	HD13 ILE	65	29.792	47.523	43.555	1.00	0.00	H
ATOM	1024	C ILE	65	29.687	50.336	47.800	1.00	0.00	C
ATOM	1025	O ILE	65	29.189	49.444	48.492	1.00	0.00	O
ATOM	1026	N TRP	66	29.162	51.554	47.686	1.00	0.00	N
ATOM	1027	H TRP	66	29.704	52.225	47.151	1.00	0.00	H
ATOM	1028	CA TRP	66	27.759	51.912	47.908	1.00	0.00	C
ATOM	1029	HA TRP	66	27.185	51.020	48.165	1.00	0.00	H
ATOM	1030	CB TRP	66	27.617	52.935	49.048	1.00	0.00	C
ATOM	1031	HB2 TRP	66	28.099	53.861	48.742	1.00	0.00	H
ATOM	1032	HB3 TRP	66	26.558	53.162	49.176	1.00	0.00	H
ATOM	1033	CG TRP	66	28.165	52.558	50.389	1.00	0.00	C
ATOM	1034	CD1 TRP	66	27.436	52.078	51.420	1.00	0.00	C
ATOM	1035	HD1 TRP	66	26.369	51.892	51.392	1.00	0.00	H
ATOM	1036	NE1 TRP	66	28.255	51.855	52.508	1.00	0.00	N
ATOM	1037	HE1 TRP	66	27.901	51.517	53.397	1.00	0.00	H
ATOM	1038	CE2 TRP	66	29.566	52.178	52.230	1.00	0.00	C

ATOM	1039	CZ2 TRP	66	30.746	52.141	52.986	1.00	0.00	C
ATOM	1040	HZ2 TRP	66	30.736	51.749	53.992	1.00	0.00	H
ATOM	1041	CH2 TRP	66	31.938	52.628	52.423	1.00	0.00	C
ATOM	1042	HH2 TRP	66	32.850	52.623	53.006	1.00	0.00	H
ATOM	1043	CZ3 TRP	66	31.947	53.092	51.095	1.00	0.00	C
ATOM	1044	HZ3 TRP	66	32.871	53.432	50.647	1.00	0.00	H
ATOM	1045	CE3 TRP	66	30.763	53.089	50.332	1.00	0.00	C
ATOM	1046	HE3 TRP	66	30.784	53.428	49.308	1.00	0.00	H
ATOM	1047	CD2 TRP	66	29.539	52.646	50.881	1.00	0.00	C
ATOM	1048	C TRP	66	27.188	52.505	46.610	1.00	0.00	C
ATOM	1049	O TRP	66	27.939	52.867	45.704	1.00	0.00	O
ATOM	1050	N GLU	67	25.871	52.686	46.526	1.00	0.00	N
ATOM	1051	H GLU	67	25.285	52.384	47.288	1.00	0.00	H
ATOM	1052	CA GLU	67	25.270	53.520	45.473	1.00	0.00	C
ATOM	1053	HA GLU	67	25.613	53.157	44.501	1.00	0.00	H
ATOM	1054	CB GLU	67	23.730	53.423	45.507	1.00	0.00	C
ATOM	1055	HB2 GLU	67	23.368	54.110	46.274	1.00	0.00	H
ATOM	1056	HB3 GLU	67	23.344	53.778	44.551	1.00	0.00	H
ATOM	1057	CG GLU	67	23.107	52.044	45.815	1.00	0.00	C
ATOM	1058	HG2 GLU	67	23.374	51.762	46.836	1.00	0.00	H
ATOM	1059	HG3 GLU	67	22.022	52.161	45.796	1.00	0.00	H
ATOM	1060	CD GLU	67	23.482	50.887	44.872	1.00	0.00	C
ATOM	1061	OE1 GLU	67	24.258	51.067	43.909	1.00	0.00	O
ATOM	1062	OE2 GLU	67	22.975	49.758	45.098	1.00	0.00	O
ATOM	1063	C GLU	67	25.718	54.995	45.635	1.00	0.00	C
ATOM	1064	O GLU	67	25.997	55.440	46.755	1.00	0.00	O
ATOM	1065	N ALA	68	25.767	55.797	44.562	1.00	0.00	N
ATOM	1066	H ALA	68	25.605	55.414	43.635	1.00	0.00	H
ATOM	1067	CA ALA	68	26.147	57.217	44.676	1.00	0.00	C
ATOM	1068	HA ALA	68	27.134	57.276	45.137	1.00	0.00	H
ATOM	1069	CB ALA	68	26.250	57.855	43.293	1.00	0.00	C
ATOM	1070	HB1 ALA	68	26.379	58.934	43.396	1.00	0.00	H
ATOM	1071	HB2 ALA	68	25.346	57.655	42.717	1.00	0.00	H
ATOM	1072	HB3 ALA	68	27.127	57.463	42.787	1.00	0.00	H
ATOM	1073	C ALA	68	25.198	58.039	45.567	1.00	0.00	C
ATOM	1074	O ALA	68	25.652	58.930	46.274	1.00	0.00	O
ATOM	1075	N SER	69	23.901	57.717	45.618	1.00	0.00	N
ATOM	1076	H SER	69	23.535	57.038	44.967	1.00	0.00	H
ATOM	1077	CA SER	69	22.950	58.377	46.532	1.00	0.00	C
ATOM	1078	HA SER	69	22.978	59.450	46.344	1.00	0.00	H
ATOM	1079	CB SER	69	21.524	57.886	46.258	1.00	0.00	C
ATOM	1080	HB2 SER	69	21.446	56.822	46.490	1.00	0.00	H
ATOM	1081	HB3 SER	69	20.829	58.437	46.893	1.00	0.00	H
ATOM	1082	OG SER	69	21.181	58.096	44.905	1.00	0.00	O
ATOM	1083	HG SER	69	20.208	58.221	44.870	1.00	0.00	H
ATOM	1084	C SER	69	23.266	58.162	48.023	1.00	0.00	C
ATOM	1085	O SER	69	22.678	58.827	48.879	1.00	0.00	O
ATOM	1086	N HID	70	24.171	57.233	48.355	1.00	0.00	N
ATOM	1087	H HID	70	24.648	56.750	47.601	1.00	0.00	H
ATOM	1088	CA HID	70	24.516	56.811	49.715	1.00	0.00	C
ATOM	1089	HA HID	70	23.839	57.313	50.406	1.00	0.00	H
ATOM	1090	CB HID	70	24.246	55.295	49.866	1.00	0.00	C



ATOM	1091	HB2	HID	70	24.391	54.797	48.907	1.00	0.00	H
ATOM	1092	HB3	HID	70	24.962	54.853	50.554	1.00	0.00	H
ATOM	1093	CG	HID	70	22.862	54.960	50.386	1.00	0.00	C
ATOM	1094	ND1	HID	70	22.504	53.792	51.024	1.00	0.00	N
ATOM	1095	HD1	HID	70	23.114	53.010	51.257	1.00	0.00	H
ATOM	1096	CE1	HID	70	21.226	53.897	51.419	1.00	0.00	C
ATOM	1097	HE1	HID	70	20.688	53.141	51.979	1.00	0.00	H
ATOM	1098	NE2	HID	70	20.718	55.084	51.054	1.00	0.00	N
ATOM	1099	CD2	HID	70	21.742	55.753	50.374	1.00	0.00	C
ATOM	1100	HD2	HID	70	21.666	56.746	49.958	1.00	0.00	H
ATOM	1101	C	HID	70	25.903	57.296	50.191	1.00	0.00	C
ATOM	1102	O	HID	70	26.496	56.693	51.087	1.00	0.00	O
ATOM	1103	N	VAL	71	26.381	58.454	49.707	1.00	0.00	N
ATOM	1104	H	VAL	71	25.933	58.857	48.891	1.00	0.00	H
ATOM	1105	CA	VAL	71	27.591	59.123	50.248	1.00	0.00	C
ATOM	1106	HA	VAL	71	28.449	58.497	50.013	1.00	0.00	H
ATOM	1107	CB	VAL	71	27.827	60.518	49.626	1.00	0.00	C
ATOM	1108	HB	VAL	71	27.135	61.228	50.083	1.00	0.00	H
ATOM	1109	CG1	VAL	71	29.253	60.999	49.901	1.00	0.00	C
ATOM	1110	HG11	VAL	71	29.454	61.032	50.970	1.00	0.00	H
ATOM	1111	HG12	VAL	71	29.975	60.339	49.418	1.00	0.00	H
ATOM	1112	HG13	VAL	71	29.365	62.007	49.508	1.00	0.00	H
ATOM	1113	CG2	VAL	71	27.604	60.581	48.115	1.00	0.00	C
ATOM	1114	HG21	VAL	71	27.968	61.527	47.715	1.00	0.00	H
ATOM	1115	HG22	VAL	71	26.538	60.532	47.907	1.00	0.00	H
ATOM	1116	HG23	VAL	71	28.120	59.757	47.618	1.00	0.00	H
ATOM	1117	C	VAL	71	27.528	59.283	51.777	1.00	0.00	C
ATOM	1118	O	VAL	71	28.512	59.050	52.475	1.00	0.00	O
ATOM	1119	N	ARG	72	26.339	59.593	52.317	1.00	0.00	N
ATOM	1120	H	ARG	72	25.578	59.760	51.675	1.00	0.00	H
ATOM	1121	CA	ARG	72	26.075	59.669	53.767	1.00	0.00	C
ATOM	1122	HA	ARG	72	26.757	60.403	54.200	1.00	0.00	H
ATOM	1123	CB	ARG	72	24.622	60.144	54.011	1.00	0.00	C
ATOM	1124	HB2	ARG	72	24.517	60.420	55.060	1.00	0.00	H
ATOM	1125	HB3	ARG	72	24.421	61.026	53.400	1.00	0.00	H
ATOM	1126	CG	ARG	72	23.595	59.048	53.691	1.00	0.00	C
ATOM	1127	HG2	ARG	72	23.831	58.620	52.716	1.00	0.00	H
ATOM	1128	HG3	ARG	72	23.685	58.280	54.459	1.00	0.00	H
ATOM	1129	CD	ARG	72	22.125	59.456	53.669	1.00	0.00	C
ATOM	1130	HD2	ARG	72	21.834	59.818	54.657	1.00	0.00	H
ATOM	1131	HD3	ARG	72	21.982	60.248	52.931	1.00	0.00	H
ATOM	1132	NE	ARG	72	21.312	58.281	53.299	1.00	0.00	N
ATOM	1133	HE	ARG	72	21.806	57.402	53.163	1.00	0.00	H
ATOM	1134	CZ	ARG	72	20.013	58.266	53.068	1.00	0.00	C
ATOM	1135	NH1	ARG	72	19.268	59.310	53.293	1.00	0.00	N
ATOM	1136	HH11	ARG	72	19.691	60.157	53.612	1.00	0.00	H
ATOM	1137	HH12	ARG	72	18.283	59.292	53.085	1.00	0.00	H
ATOM	1138	NH2	ARG	72	19.431	57.206	52.595	1.00	0.00	N
ATOM	1139	HH21	ARG	72	19.985	56.416	52.276	1.00	0.00	H
ATOM	1140	HH22	ARG	72	18.491	57.290	52.242	1.00	0.00	H
ATOM	1141	C	ARG	72	26.379	58.353	54.498	1.00	0.00	C
ATOM	1142	O	ARG	72	26.958	58.377	55.577	1.00	0.00	O

ATOM	1143	N	ASN	73	26.014	57.212	53.907	1.00	0.00	N
ATOM	1144	H	ASN	73	25.605	57.259	52.986	1.00	0.00	H
ATOM	1145	CA	ASN	73	26.229	55.884	54.475	1.00	0.00	C
ATOM	1146	HA	ASN	73	25.965	55.905	55.534	1.00	0.00	H
ATOM	1147	CB	ASN	73	25.321	54.852	53.778	1.00	0.00	C
ATOM	1148	HB2	ASN	73	25.568	54.795	52.720	1.00	0.00	H
ATOM	1149	HB3	ASN	73	25.518	53.873	54.213	1.00	0.00	H
ATOM	1150	CG	ASN	73	23.836	55.158	53.915	1.00	0.00	C
ATOM	1151	OD1	ASN	73	23.305	56.085	53.318	1.00	0.00	O
ATOM	1152	ND2	ASN	73	23.128	54.417	54.730	1.00	0.00	N
ATOM	1153	HD21	ASN	73	23.519	53.617	55.212	1.00	0.00	H
ATOM	1154	HD22	ASN	73	22.151	54.632	54.885	1.00	0.00	H
ATOM	1155	C	ASN	73	27.710	55.502	54.387	1.00	0.00	C
ATOM	1156	O	ASN	73	28.247	54.960	55.345	1.00	0.00	O
ATOM	1157	N	SER	74	28.385	55.870	53.293	1.00	0.00	N
ATOM	1158	H	SER	74	27.861	56.285	52.531	1.00	0.00	H
ATOM	1159	CA	SER	74	29.836	55.716	53.136	1.00	0.00	C
ATOM	1160	HA	SER	74	30.086	54.664	53.245	1.00	0.00	H
ATOM	1161	CB	SER	74	30.226	56.165	51.726	1.00	0.00	C
ATOM	1162	HB2	SER	74	29.648	55.604	50.991	1.00	0.00	H
ATOM	1163	HB3	SER	74	30.007	57.225	51.604	1.00	0.00	H
ATOM	1164	OG	SER	74	31.598	55.958	51.500	1.00	0.00	O
ATOM	1165	HG	SER	74	31.747	55.001	51.489	1.00	0.00	H
ATOM	1166	C	SER	74	30.630	56.487	54.200	1.00	0.00	C
ATOM	1167	O	SER	74	31.481	55.914	54.881	1.00	0.00	O
ATOM	1168	N	ILE	75	30.294	57.764	54.413	1.00	0.00	N
ATOM	1169	H	ILE	75	29.603	58.182	53.799	1.00	0.00	H
ATOM	1170	CA	ILE	75	30.925	58.621	55.428	1.00	0.00	C
ATOM	1171	HA	ILE	75	32.007	58.538	55.319	1.00	0.00	H
ATOM	1172	CB	ILE	75	30.537	60.096	55.170	1.00	0.00	C
ATOM	1173	HB	ILE	75	29.468	60.143	54.951	1.00	0.00	H
ATOM	1174	CG2	ILE	75	30.799	60.994	56.393	1.00	0.00	C
ATOM	1175	HG21	ILE	75	30.157	60.704	57.225	1.00	0.00	H
ATOM	1176	HG22	ILE	75	30.574	62.033	56.161	1.00	0.00	H
ATOM	1177	HG23	ILE	75	31.841	60.906	56.702	1.00	0.00	H
ATOM	1178	CG1	ILE	75	31.325	60.592	53.932	1.00	0.00	C
ATOM	1179	HG12	ILE	75	32.389	60.631	54.170	1.00	0.00	H
ATOM	1180	HG13	ILE	75	31.194	59.881	53.115	1.00	0.00	H
ATOM	1181	CD1	ILE	75	30.888	61.962	53.407	1.00	0.00	C
ATOM	1182	HD11	ILE	75	29.810	61.970	53.258	1.00	0.00	H
ATOM	1183	HD12	ILE	75	31.381	62.155	52.454	1.00	0.00	H
ATOM	1184	HD13	ILE	75	31.171	62.747	54.106	1.00	0.00	H
ATOM	1185	C	ILE	75	30.612	58.141	56.854	1.00	0.00	C
ATOM	1186	O	ILE	75	31.538	58.021	57.659	1.00	0.00	O
ATOM	1187	N	ASN	76	29.353	57.789	57.159	1.00	0.00	N
ATOM	1188	H	ASN	76	28.619	57.952	56.479	1.00	0.00	H
ATOM	1189	CA	ASN	76	28.998	57.137	58.427	1.00	0.00	C
ATOM	1190	HA	ASN	76	29.219	57.811	59.258	1.00	0.00	H
ATOM	1191	CB	ASN	76	27.500	56.757	58.450	1.00	0.00	C
ATOM	1192	HB2	ASN	76	27.165	56.504	57.447	1.00	0.00	H
ATOM	1193	HB3	ASN	76	27.381	55.862	59.062	1.00	0.00	H
ATOM	1194	CG	ASN	76	26.560	57.793	59.047	1.00	0.00	C

ATOM	1195	OD1 ASN	76	26.938	58.833	59.562	1.00	0.00	O
ATOM	1196	ND2 ASN	76	25.281	57.490	59.067	1.00	0.00	N
ATOM	1197	HD21 ASN	76	24.966	56.609	58.710	1.00	0.00	H
ATOM	1198	HD22 ASN	76	24.661	58.100	59.585	1.00	0.00	H
ATOM	1199	C ASN	76	29.842	55.872	58.643	1.00	0.00	C
ATOM	1200	O ASN	76	30.373	55.673	59.731	1.00	0.00	O
ATOM	1201	N SER	77	29.989	55.037	57.612	1.00	0.00	N
ATOM	1202	H SER	77	29.510	55.246	56.743	1.00	0.00	H
ATOM	1203	CA SER	77	30.697	53.761	57.706	1.00	0.00	C
ATOM	1204	HA SER	77	30.300	53.229	58.566	1.00	0.00	H
ATOM	1205	CB SER	77	30.433	52.930	56.451	1.00	0.00	C
ATOM	1206	HB2 SER	77	29.369	52.947	56.219	1.00	0.00	H
ATOM	1207	HB3 SER	77	30.989	53.348	55.611	1.00	0.00	H
ATOM	1208	OG SER	77	30.808	51.589	56.662	1.00	0.00	O
ATOM	1209	HG SER	77	30.198	51.240	57.334	1.00	0.00	H
ATOM	1210	C SER	77	32.192	53.924	57.962	1.00	0.00	C
ATOM	1211	O SER	77	32.726	53.258	58.843	1.00	0.00	O
ATOM	1212	N ALA	78	32.858	54.873	57.298	1.00	0.00	N
ATOM	1213	H ALA	78	32.377	55.386	56.565	1.00	0.00	H
ATOM	1214	CA ALA	78	34.255	55.203	57.588	1.00	0.00	C
ATOM	1215	HA ALA	78	34.861	54.304	57.459	1.00	0.00	H
ATOM	1216	CB ALA	78	34.721	56.249	56.570	1.00	0.00	C
ATOM	1217	HB1 ALA	78	35.779	56.464	56.724	1.00	0.00	H
ATOM	1218	HB2 ALA	78	34.144	57.168	56.680	1.00	0.00	H
ATOM	1219	HB3 ALA	78	34.582	55.857	55.563	1.00	0.00	H
ATOM	1220	C ALA	78	34.450	55.690	59.039	1.00	0.00	C
ATOM	1221	O ALA	78	35.382	55.259	59.722	1.00	0.00	O
ATOM	1222	N CYS	79	33.547	56.541	59.542	1.00	0.00	N
ATOM	1223	H CYS	79	32.799	56.865	58.940	1.00	0.00	H
ATOM	1224	CA CYS	79	33.593	57.031	60.924	1.00	0.00	C
ATOM	1225	HA CYS	79	34.597	57.404	61.129	1.00	0.00	H
ATOM	1226	CB CYS	79	32.607	58.199	61.084	1.00	0.00	C
ATOM	1227	HB2 CYS	79	31.590	57.868	60.864	1.00	0.00	H
ATOM	1228	HB3 CYS	79	32.642	58.556	62.115	1.00	0.00	H
ATOM	1229	SG CYS	79	33.057	59.569	59.975	1.00	0.00	S
ATOM	1230	HG CYS	79	32.556	59.026	58.854	1.00	0.00	H
ATOM	1231	C CYS	79	33.311	55.919	61.951	1.00	0.00	C
ATOM	1232	O CYS	79	34.016	55.807	62.954	1.00	0.00	O
ATOM	1233	N LEU	80	32.314	55.066	61.697	1.00	0.00	N
ATOM	1234	H LEU	80	31.755	55.220	60.863	1.00	0.00	H
ATOM	1235	CA LEU	80	31.960	53.935	62.560	1.00	0.00	C
ATOM	1236	HA LEU	80	31.916	54.288	63.589	1.00	0.00	H
ATOM	1237	CB LEU	80	30.572	53.401	62.161	1.00	0.00	C
ATOM	1238	HB2 LEU	80	30.560	53.266	61.079	1.00	0.00	H
ATOM	1239	HB3 LEU	80	30.418	52.423	62.620	1.00	0.00	H
ATOM	1240	CG LEU	80	29.409	54.328	62.573	1.00	0.00	C
ATOM	1241	HG LEU	80	29.630	55.354	62.283	1.00	0.00	H
ATOM	1242	CD1 LEU	80	28.116	53.901	61.878	1.00	0.00	C
ATOM	1243	HD11 LEU	80	28.253	53.941	60.797	1.00	0.00	H
ATOM	1244	HD12 LEU	80	27.309	54.581	62.153	1.00	0.00	H
ATOM	1245	HD13 LEU	80	27.850	52.887	62.174	1.00	0.00	H
ATOM	1246	CD2 LEU	80	29.158	54.290	64.084	1.00	0.00	C

ATOM	1247	HD21	LEU	80	28.959	53.268	64.405	1.00	0.00	H
ATOM	1248	HD22	LEU	80	30.023	54.678	64.620	1.00	0.00	H
ATOM	1249	HD23	LEU	80	28.299	54.917	64.327	1.00	0.00	H
ATOM	1250	C	LEU	80	33.024	52.828	62.534	1.00	0.00	C
ATOM	1251	O	LEU	80	33.303	52.247	63.580	1.00	0.00	O
ATOM	1252	N	ALA	81	33.677	52.581	61.395	1.00	0.00	N
ATOM	1253	H	ALA	81	33.367	53.041	60.545	1.00	0.00	H
ATOM	1254	CA	ALA	81	34.836	51.696	61.305	1.00	0.00	C
ATOM	1255	HA	ALA	81	34.565	50.723	61.718	1.00	0.00	H
ATOM	1256	CB	ALA	81	35.212	51.502	59.830	1.00	0.00	C
ATOM	1257	HB1	ALA	81	35.470	52.459	59.376	1.00	0.00	H
ATOM	1258	HB2	ALA	81	34.371	51.066	59.290	1.00	0.00	H
ATOM	1259	HB3	ALA	81	36.066	50.828	59.756	1.00	0.00	H
ATOM	1260	C	ALA	81	36.014	52.241	62.128	1.00	0.00	C
ATOM	1261	O	ALA	81	36.602	51.494	62.907	1.00	0.00	O
ATOM	1262	N	ALA	82	36.318	53.542	62.039	1.00	0.00	N
ATOM	1263	H	ALA	82	35.828	54.114	61.358	1.00	0.00	H
ATOM	1264	CA	ALA	82	37.343	54.175	62.871	1.00	0.00	C
ATOM	1265	HA	ALA	82	38.284	53.646	62.718	1.00	0.00	H
ATOM	1266	CB	ALA	82	37.530	55.624	62.402	1.00	0.00	C
ATOM	1267	HB1	ALA	82	36.609	56.189	62.541	1.00	0.00	H
ATOM	1268	HB2	ALA	82	37.800	55.638	61.345	1.00	0.00	H
ATOM	1269	HB3	ALA	82	38.327	56.094	62.978	1.00	0.00	H
ATOM	1270	C	ALA	82	37.013	54.092	64.378	1.00	0.00	C
ATOM	1271	O	ALA	82	37.890	53.771	65.178	1.00	0.00	O
ATOM	1272	N	PHE	83	35.752	54.308	64.768	1.00	0.00	N
ATOM	1273	H	PHE	83	35.087	54.624	64.068	1.00	0.00	H
ATOM	1274	CA	PHE	83	35.274	54.144	66.149	1.00	0.00	C
ATOM	1275	HA	PHE	83	35.891	54.752	66.811	1.00	0.00	H
ATOM	1276	CB	PHE	83	33.830	54.668	66.219	1.00	0.00	C
ATOM	1277	HB2	PHE	83	33.830	55.726	65.955	1.00	0.00	H
ATOM	1278	HB3	PHE	83	33.232	54.152	65.469	1.00	0.00	H
ATOM	1279	CG	PHE	83	33.143	54.503	67.563	1.00	0.00	C
ATOM	1280	CD1	PHE	83	33.273	55.497	68.551	1.00	0.00	C
ATOM	1281	HD1	PHE	83	33.873	56.375	68.361	1.00	0.00	H
ATOM	1282	CE1	PHE	83	32.606	55.361	69.783	1.00	0.00	C
ATOM	1283	HE1	PHE	83	32.696	56.133	70.534	1.00	0.00	H
ATOM	1284	CZ	PHE	83	31.810	54.228	70.031	1.00	0.00	C
ATOM	1285	HZ	PHE	83	31.288	54.130	70.974	1.00	0.00	H
ATOM	1286	CE2	PHE	83	31.684	53.230	69.049	1.00	0.00	C
ATOM	1287	HE2	PHE	83	31.068	52.363	69.239	1.00	0.00	H
ATOM	1288	CD2	PHE	83	32.347	53.368	67.816	1.00	0.00	C
ATOM	1289	HD2	PHE	83	32.238	52.604	67.058	1.00	0.00	H
ATOM	1290	C	PHE	83	35.375	52.689	66.642	1.00	0.00	C
ATOM	1291	O	PHE	83	35.871	52.433	67.742	1.00	0.00	O
ATOM	1292	N	ALA	84	34.964	51.720	65.819	1.00	0.00	N
ATOM	1293	H	ALA	84	34.539	51.980	64.935	1.00	0.00	H
ATOM	1294	CA	ALA	84	35.078	50.296	66.127	1.00	0.00	C
ATOM	1295	HA	ALA	84	34.584	50.106	67.081	1.00	0.00	H
ATOM	1296	CB	ALA	84	34.353	49.496	65.037	1.00	0.00	C
ATOM	1297	HB1	ALA	84	33.305	49.795	64.991	1.00	0.00	H
ATOM	1298	HB2	ALA	84	34.407	48.431	65.265	1.00	0.00	H

ATOM	1299	HB3 ALA	84	34.815	49.676	64.065	1.00	0.00	H
ATOM	1300	C ALA	84	36.546	49.864	66.268	1.00	0.00	C
ATOM	1301	O ALA	84	36.887	49.169	67.225	1.00	0.00	O
ATOM	1302	N ILE	85	37.423	50.322	65.370	1.00	0.00	N
ATOM	1303	H ILE	85	37.065	50.869	64.591	1.00	0.00	H
ATOM	1304	CA ILE	85	38.872	50.092	65.432	1.00	0.00	C
ATOM	1305	HA ILE	85	39.043	49.021	65.526	1.00	0.00	H
ATOM	1306	CB ILE	85	39.542	50.549	64.112	1.00	0.00	C
ATOM	1307	HB ILE	85	39.152	51.533	63.847	1.00	0.00	H
ATOM	1308	CG2 ILE	85	41.070	50.671	64.240	1.00	0.00	C
ATOM	1309	HG21 ILE	85	41.316	51.474	64.933	1.00	0.00	H
ATOM	1310	HG22 ILE	85	41.518	50.926	63.281	1.00	0.00	H
ATOM	1311	HG23 ILE	85	41.497	49.734	64.600	1.00	0.00	H
ATOM	1312	CG1 ILE	85	39.177	49.543	62.992	1.00	0.00	C
ATOM	1313	HG12 ILE	85	39.674	48.590	63.179	1.00	0.00	H
ATOM	1314	HG13 ILE	85	38.104	49.361	63.010	1.00	0.00	H
ATOM	1315	CD1 ILE	85	39.520	50.013	61.573	1.00	0.00	C
ATOM	1316	HD11 ILE	85	39.113	51.009	61.399	1.00	0.00	H
ATOM	1317	HD12 ILE	85	39.084	49.322	60.851	1.00	0.00	H
ATOM	1318	HD13 ILE	85	40.598	50.024	61.429	1.00	0.00	H
ATOM	1319	C ILE	85	39.469	50.732	66.694	1.00	0.00	C
ATOM	1320	O ILE	85	40.224	50.064	67.389	1.00	0.00	O
ATOM	1321	N LEU	86	39.073	51.955	67.067	1.00	0.00	N
ATOM	1322	H LEU	86	38.470	52.480	66.441	1.00	0.00	H
ATOM	1323	CA LEU	86	39.505	52.603	68.314	1.00	0.00	C
ATOM	1324	HA LEU	86	40.593	52.660	68.300	1.00	0.00	H
ATOM	1325	CB LEU	86	38.953	54.041	68.349	1.00	0.00	C
ATOM	1326	HB2 LEU	86	39.339	54.581	67.483	1.00	0.00	H
ATOM	1327	HB3 LEU	86	37.869	54.000	68.257	1.00	0.00	H
ATOM	1328	CG LEU	86	39.292	54.840	69.623	1.00	0.00	C
ATOM	1329	HG LEU	86	38.878	54.332	70.494	1.00	0.00	H
ATOM	1330	CD1 LEU	86	40.800	55.016	69.821	1.00	0.00	C
ATOM	1331	HD11 LEU	86	41.270	54.048	69.991	1.00	0.00	H
ATOM	1332	HD12 LEU	86	40.985	55.641	70.695	1.00	0.00	H
ATOM	1333	HD13 LEU	86	41.241	55.487	68.942	1.00	0.00	H
ATOM	1334	CD2 LEU	86	38.658	56.230	69.536	1.00	0.00	C
ATOM	1335	HD21 LEU	86	39.064	56.774	68.684	1.00	0.00	H
ATOM	1336	HD22 LEU	86	37.578	56.132	69.424	1.00	0.00	H
ATOM	1337	HD23 LEU	86	38.866	56.786	70.451	1.00	0.00	H
ATOM	1338	C LEU	86	39.121	51.784	69.559	1.00	0.00	C
ATOM	1339	O LEU	86	39.965	51.557	70.432	1.00	0.00	O
ATOM	1340	N ARG	87	37.891	51.250	69.628	1.00	0.00	N
ATOM	1341	H ARG	87	37.216	51.486	68.904	1.00	0.00	H
ATOM	1342	CA ARG	87	37.534	50.305	70.701	1.00	0.00	C
ATOM	1343	HA ARG	87	37.793	50.778	71.651	1.00	0.00	H
ATOM	1344	CB ARG	87	36.023	50.010	70.717	1.00	0.00	C
ATOM	1345	HB2 ARG	87	35.470	50.950	70.769	1.00	0.00	H
ATOM	1346	HB3 ARG	87	35.731	49.470	69.816	1.00	0.00	H
ATOM	1347	CG ARG	87	35.713	49.167	71.965	1.00	0.00	C
ATOM	1348	HG2 ARG	87	36.220	48.206	71.875	1.00	0.00	H
ATOM	1349	HG3 ARG	87	36.113	49.681	72.841	1.00	0.00	H
ATOM	1350	CD ARG	87	34.234	48.878	72.222	1.00	0.00	C

ATOM	1351	HD2	ARG	87	33.710	49.814	72.427	1.00	0.00	H
ATOM	1352	HD3	ARG	87	33.795	48.412	71.338	1.00	0.00	H
ATOM	1353	NE	ARG	87	34.150	47.991	73.395	1.00	0.00	N
ATOM	1354	HE	ARG	87	34.650	48.308	74.222	1.00	0.00	H
ATOM	1355	CZ	ARG	87	33.912	46.695	73.402	1.00	0.00	C
ATOM	1356	NH1	ARG	87	33.348	46.056	72.420	1.00	0.00	N
ATOM	1357	HH11	ARG	87	32.967	46.553	71.641	1.00	0.00	H
ATOM	1358	HH12	ARG	87	33.285	45.045	72.503	1.00	0.00	H
ATOM	1359	NH2	ARG	87	34.277	45.976	74.412	1.00	0.00	N
ATOM	1360	HH21	ARG	87	34.790	46.382	75.183	1.00	0.00	H
ATOM	1361	HH22	ARG	87	34.177	44.968	74.353	1.00	0.00	H
ATOM	1362	C	ARG	87	38.381	49.029	70.629	1.00	0.00	C
ATOM	1363	O	ARG	87	38.870	48.578	71.658	1.00	0.00	O
ATOM	1364	N	ARG	88	38.615	48.481	69.434	1.00	0.00	N
ATOM	1365	H	ARG	88	38.186	48.936	68.633	1.00	0.00	H
ATOM	1366	CA	ARG	88	39.472	47.304	69.165	1.00	0.00	C
ATOM	1367	HA	ARG	88	39.313	46.579	69.962	1.00	0.00	H
ATOM	1368	CB	ARG	88	39.039	46.660	67.828	1.00	0.00	C
ATOM	1369	HB2	ARG	88	39.147	47.402	67.039	1.00	0.00	H
ATOM	1370	HB3	ARG	88	39.703	45.828	67.586	1.00	0.00	H
ATOM	1371	CG	ARG	88	37.583	46.142	67.824	1.00	0.00	C
ATOM	1372	HG2	ARG	88	36.920	46.872	68.286	1.00	0.00	H
ATOM	1373	HG3	ARG	88	37.256	46.001	66.795	1.00	0.00	H
ATOM	1374	CD	ARG	88	37.440	44.813	68.569	1.00	0.00	C
ATOM	1375	HD2	ARG	88	37.948	44.033	67.997	1.00	0.00	H
ATOM	1376	HD3	ARG	88	37.935	44.917	69.535	1.00	0.00	H
ATOM	1377	NE	ARG	88	36.026	44.434	68.779	1.00	0.00	N
ATOM	1378	HE	ARG	88	35.349	44.749	68.106	1.00	0.00	H
ATOM	1379	CZ	ARG	88	35.552	43.791	69.834	1.00	0.00	C
ATOM	1380	NH1	ARG	88	36.326	43.282	70.749	1.00	0.00	N
ATOM	1381	HH11	ARG	88	37.325	43.218	70.595	1.00	0.00	H
ATOM	1382	HH12	ARG	88	35.896	42.906	71.590	1.00	0.00	H
ATOM	1383	NH2	ARG	88	34.272	43.646	70.016	1.00	0.00	N
ATOM	1384	HH21	ARG	88	33.581	43.954	69.334	1.00	0.00	H
ATOM	1385	HH22	ARG	88	33.972	43.188	70.873	1.00	0.00	H
ATOM	1386	C	ARG	88	40.992	47.593	69.236	1.00	0.00	C
ATOM	1387	O	ARG	88	41.786	46.756	68.817	1.00	0.00	O
ATOM	1388	N	ILE	89	41.378	48.752	69.786	1.00	0.00	N
ATOM	1389	H	ILE	89	40.652	49.438	69.923	1.00	0.00	H
ATOM	1390	CA	ILE	89	42.746	49.146	70.176	1.00	0.00	C
ATOM	1391	HA	ILE	89	43.447	48.363	69.880	1.00	0.00	H
ATOM	1392	CB	ILE	89	43.125	50.451	69.425	1.00	0.00	C
ATOM	1393	HB	ILE	89	42.274	51.128	69.482	1.00	0.00	H
ATOM	1394	CG2	ILE	89	44.332	51.198	70.023	1.00	0.00	C
ATOM	1395	HG21	ILE	89	44.153	51.458	71.065	1.00	0.00	H
ATOM	1396	HG22	ILE	89	44.505	52.128	69.482	1.00	0.00	H
ATOM	1397	HG23	ILE	89	45.225	50.582	69.943	1.00	0.00	H
ATOM	1398	CG1	ILE	89	43.406	50.147	67.937	1.00	0.00	C
ATOM	1399	HG12	ILE	89	44.400	49.714	67.841	1.00	0.00	H
ATOM	1400	HG13	ILE	89	42.697	49.408	67.565	1.00	0.00	H
ATOM	1401	CD1	ILE	89	43.301	51.384	67.036	1.00	0.00	C
ATOM	1402	HD11	ILE	89	42.325	51.851	67.148	1.00	0.00	H

ATOM	1403	HD12	ILE	89	43.430	51.081	65.998	1.00	0.00	H
ATOM	1404	HD13	ILE	89	44.077	52.108	67.282	1.00	0.00	H
ATOM	1405	C	ILE	89	42.865	49.281	71.709	1.00	0.00	C
ATOM	1406	O	ILE	89	43.917	48.982	72.273	1.00	0.00	O
ATOM	1407	N	GLN	90	41.798	49.700	72.410	1.00	0.00	N
ATOM	1408	H	GLN	90	40.982	50.004	71.894	1.00	0.00	H
ATOM	1409	CA	GLN	90	41.724	49.684	73.886	1.00	0.00	C
ATOM	1410	HA	GLN	90	42.746	49.710	74.265	1.00	0.00	H
ATOM	1411	CB	GLN	90	41.036	50.977	74.379	1.00	0.00	C
ATOM	1412	HB2	GLN	90	41.477	51.814	73.834	1.00	0.00	H
ATOM	1413	HB3	GLN	90	39.971	50.945	74.141	1.00	0.00	H
ATOM	1414	CG	GLN	90	41.226	51.245	75.888	1.00	0.00	C
ATOM	1415	HG2	GLN	90	40.475	50.697	76.456	1.00	0.00	H
ATOM	1416	HG3	GLN	90	42.211	50.893	76.196	1.00	0.00	H
ATOM	1417	CD	GLN	90	41.129	52.728	76.249	1.00	0.00	C
ATOM	1418	OE1	GLN	90	42.095	53.355	76.674	1.00	0.00	O
ATOM	1419	NE2	GLN	90	39.980	53.344	76.091	1.00	0.00	N
ATOM	1420	HE21	GLN	90	39.945	54.341	76.264	1.00	0.00	H
ATOM	1421	HE22	GLN	90	39.148	52.822	75.839	1.00	0.00	H
ATOM	1422	C	GLN	90	41.102	48.383	74.455	1.00	0.00	C
ATOM	1423	O	GLN	90	41.050	48.196	75.673	1.00	0.00	O
ATOM	1424	N	GLN	91	40.622	47.490	73.587	1.00	0.00	N
ATOM	1425	H	GLN	91	40.648	47.766	72.612	1.00	0.00	H
ATOM	1426	CA	GLN	91	40.152	46.114	73.813	1.00	0.00	C
ATOM	1427	HA	GLN	91	40.673	45.692	74.674	1.00	0.00	H
ATOM	1428	CB	GLN	91	38.629	46.089	74.086	1.00	0.00	C
ATOM	1429	HB2	GLN	91	38.099	46.637	73.306	1.00	0.00	H
ATOM	1430	HB3	GLN	91	38.292	45.053	74.030	1.00	0.00	H
ATOM	1431	CG	GLN	91	38.216	46.607	75.478	1.00	0.00	C
ATOM	1432	HG2	GLN	91	37.500	45.904	75.898	1.00	0.00	H
ATOM	1433	HG3	GLN	91	39.071	46.619	76.153	1.00	0.00	H
ATOM	1434	CD	GLN	91	37.541	47.977	75.447	1.00	0.00	C
ATOM	1435	OE1	GLN	91	36.365	48.106	75.136	1.00	0.00	O
ATOM	1436	NE2	GLN	91	38.244	49.035	75.790	1.00	0.00	N
ATOM	1437	HE21	GLN	91	37.828	49.954	75.637	1.00	0.00	H
ATOM	1438	HE22	GLN	91	39.233	48.920	75.966	1.00	0.00	H
ATOM	1439	C	GLN	91	40.533	45.252	72.583	1.00	0.00	C
ATOM	1440	O	GLN	91	41.138	45.763	71.646	1.00	0.00	O
ATOM	1441	N	SER	92	40.215	43.950	72.572	1.00	0.00	N
ATOM	1442	H	SER	92	39.650	43.605	73.334	1.00	0.00	H
ATOM	1443	CA	SER	92	40.798	42.910	71.689	1.00	0.00	C
ATOM	1444	HA	SER	92	40.346	41.963	71.988	1.00	0.00	H
ATOM	1445	CB	SER	92	40.447	43.090	70.202	1.00	0.00	C
ATOM	1446	HB2	SER	92	40.573	44.128	69.891	1.00	0.00	H
ATOM	1447	HB3	SER	92	41.129	42.479	69.610	1.00	0.00	H
ATOM	1448	OG	SER	92	39.127	42.653	69.924	1.00	0.00	O
ATOM	1449	HG	SER	92	39.186	42.097	69.129	1.00	0.00	H
ATOM	1450	C	SER	92	42.309	42.696	71.870	1.00	0.00	C
ATOM	1451	O	SER	92	42.720	41.561	72.091	1.00	0.00	O
ATOM	1452	N	GLY	93	43.133	43.744	71.826	1.00	0.00	N
ATOM	1453	H	GLY	93	42.739	44.658	71.622	1.00	0.00	H
ATOM	1454	CA	GLY	93	44.551	43.679	72.187	1.00	0.00	C

ATOM	1455	HA2	GLY	93	44.945	42.689	71.963	1.00	0.00	H
ATOM	1456	HA3	GLY	93	45.108	44.392	71.585	1.00	0.00	H
ATOM	1457	C	GLY	93	44.839	43.991	73.658	1.00	0.00	C
ATOM	1458	O	GLY	93	44.057	44.635	74.362	1.00	0.00	O
ATOM	1459	N	SER	94	46.007	43.552	74.125	1.00	0.00	N
ATOM	1460	H	SER	94	46.489	42.847	73.569	1.00	0.00	H
ATOM	1461	CA	SER	94	46.657	43.988	75.369	1.00	0.00	C
ATOM	1462	HA	SER	94	46.560	45.071	75.466	1.00	0.00	H
ATOM	1463	CB	SER	94	45.990	43.333	76.579	1.00	0.00	C
ATOM	1464	HB2	SER	94	45.627	42.335	76.322	1.00	0.00	H
ATOM	1465	HB3	SER	94	46.702	43.251	77.401	1.00	0.00	H
ATOM	1466	OG	SER	94	44.918	44.171	76.973	1.00	0.00	O
ATOM	1467	HG	SER	94	44.382	44.326	76.172	1.00	0.00	H
ATOM	1468	C	SER	94	48.149	43.655	75.317	1.00	0.00	C
ATOM	1469	O	SER	94	48.544	42.515	75.554	1.00	0.00	O
ATOM	1470	N	ALA	95	48.958	44.657	74.946	1.00	0.00	N
ATOM	1471	H	ALA	95	48.522	45.553	74.803	1.00	0.00	H
ATOM	1472	CA	ALA	95	50.403	44.601	74.651	1.00	0.00	C
ATOM	1473	HA	ALA	95	50.689	45.596	74.305	1.00	0.00	H
ATOM	1474	CB	ALA	95	51.180	44.362	75.952	1.00	0.00	C
ATOM	1475	HB1	ALA	95	50.910	45.116	76.694	1.00	0.00	H
ATOM	1476	HB2	ALA	95	52.250	44.435	75.756	1.00	0.00	H
ATOM	1477	HB3	ALA	95	50.962	43.370	76.349	1.00	0.00	H
ATOM	1478	C	ALA	95	50.845	43.644	73.511	1.00	0.00	C
ATOM	1479	O	ALA	95	51.930	43.822	72.959	1.00	0.00	O
ATOM	1480	N	ASP	96	50.016	42.666	73.136	1.00	0.00	N
ATOM	1481	H	ASP	96	49.204	42.524	73.722	1.00	0.00	H
ATOM	1482	CA	ASP	96	50.329	41.601	72.177	1.00	0.00	C
ATOM	1483	HA	ASP	96	51.213	41.076	72.540	1.00	0.00	H
ATOM	1484	CB	ASP	96	49.180	40.571	72.144	1.00	0.00	C
ATOM	1485	HB2	ASP	96	49.309	39.911	71.284	1.00	0.00	H
ATOM	1486	HB3	ASP	96	49.261	39.957	73.041	1.00	0.00	H
ATOM	1487	CG	ASP	96	47.777	41.193	72.110	1.00	0.00	C
ATOM	1488	OD1	ASP	96	47.064	41.129	73.133	1.00	0.00	O
ATOM	1489	OD2	ASP	96	47.352	41.741	71.065	1.00	0.00	O
ATOM	1490	C	ASP	96	50.691	42.102	70.767	1.00	0.00	C
ATOM	1491	O	ASP	96	51.853	41.993	70.373	1.00	0.00	O
ATOM	1492	N	LEU	97	49.701	42.599	70.012	1.00	0.00	N
ATOM	1493	H	LEU	97	48.775	42.573	70.424	1.00	0.00	H
ATOM	1494	CA	LEU	97	49.823	43.109	68.645	1.00	0.00	C
ATOM	1495	HA	LEU	97	50.642	43.826	68.649	1.00	0.00	H
ATOM	1496	CB	LEU	97	50.169	41.923	67.715	1.00	0.00	C
ATOM	1497	HB2	LEU	97	50.920	41.290	68.185	1.00	0.00	H
ATOM	1498	HB3	LEU	97	49.275	41.313	67.578	1.00	0.00	H
ATOM	1499	CG	LEU	97	50.718	42.328	66.339	1.00	0.00	C
ATOM	1500	HG	LEU	97	49.958	42.886	65.803	1.00	0.00	H
ATOM	1501	CD1	LEU	97	51.966	43.208	66.422	1.00	0.00	C
ATOM	1502	HD11	LEU	97	51.697	44.196	66.793	1.00	0.00	H
ATOM	1503	HD12	LEU	97	52.393	43.332	65.429	1.00	0.00	H
ATOM	1504	HD13	LEU	97	52.701	42.760	67.090	1.00	0.00	H
ATOM	1505	CD2	LEU	97	51.056	41.054	65.556	1.00	0.00	C
ATOM	1506	HD21	LEU	97	51.790	40.463	66.104	1.00	0.00	H



ATOM	1507	HD22	LEU	97	50.153	40.458	65.416	1.00	0.00	H
ATOM	1508	HD23	LEU	97	51.461	41.309	64.578	1.00	0.00	H
ATOM	1509	C	LEU	97	48.558	43.838	68.129	1.00	0.00	C
ATOM	1510	O	LEU	97	48.675	44.692	67.250	1.00	0.00	O
ATOM	1511	N	ARG	98	47.348	43.550	68.651	1.00	0.00	N
ATOM	1512	H	ARG	98	47.304	42.852	69.392	1.00	0.00	H
ATOM	1513	CA	ARG	98	46.086	44.232	68.261	1.00	0.00	C
ATOM	1514	HA	ARG	98	46.109	44.396	67.183	1.00	0.00	H
ATOM	1515	CB	ARG	98	44.853	43.351	68.565	1.00	0.00	C
ATOM	1516	HB2	ARG	98	44.954	42.907	69.555	1.00	0.00	H
ATOM	1517	HB3	ARG	98	43.958	43.977	68.556	1.00	0.00	H
ATOM	1518	CG	ARG	98	44.646	42.245	67.518	1.00	0.00	C
ATOM	1519	HG2	ARG	98	44.625	42.702	66.528	1.00	0.00	H
ATOM	1520	HG3	ARG	98	45.478	41.540	67.556	1.00	0.00	H
ATOM	1521	CD	ARG	98	43.320	41.489	67.713	1.00	0.00	C
ATOM	1522	HD2	ARG	98	42.498	42.206	67.752	1.00	0.00	H
ATOM	1523	HD3	ARG	98	43.166	40.840	66.848	1.00	0.00	H
ATOM	1524	NE	ARG	98	43.333	40.664	68.933	1.00	0.00	N
ATOM	1525	HE	ARG	98	44.129	40.744	69.558	1.00	0.00	H
ATOM	1526	CZ	ARG	98	42.478	39.726	69.289	1.00	0.00	C
ATOM	1527	NH1	ARG	98	41.361	39.499	68.662	1.00	0.00	N
ATOM	1528	HH11	ARG	98	41.039	40.145	67.953	1.00	0.00	H
ATOM	1529	HH12	ARG	98	40.764	38.731	68.943	1.00	0.00	H
ATOM	1530	NH2	ARG	98	42.759	38.988	70.312	1.00	0.00	N
ATOM	1531	HH21	ARG	98	43.597	39.222	70.834	1.00	0.00	H
ATOM	1532	HH22	ARG	98	42.091	38.313	70.665	1.00	0.00	H
ATOM	1533	C	ARG	98	45.976	45.645	68.867	1.00	0.00	C
ATOM	1534	O	ARG	98	45.111	45.926	69.688	1.00	0.00	O
ATOM	1535	N	LYS	99	46.902	46.523	68.475	1.00	0.00	N
ATOM	1536	H	LYS	99	47.601	46.167	67.831	1.00	0.00	H
ATOM	1537	CA	LYS	99	47.015	47.933	68.891	1.00	0.00	C
ATOM	1538	HA	LYS	99	46.012	48.347	69.004	1.00	0.00	H
ATOM	1539	CB	LYS	99	47.722	47.935	70.272	1.00	0.00	C
ATOM	1540	HB2	LYS	99	47.362	47.083	70.853	1.00	0.00	H
ATOM	1541	HB3	LYS	99	48.795	47.796	70.123	1.00	0.00	H
ATOM	1542	CG	LYS	99	47.485	49.184	71.137	1.00	0.00	C
ATOM	1543	HG2	LYS	99	47.835	50.075	70.616	1.00	0.00	H
ATOM	1544	HG3	LYS	99	46.418	49.280	71.329	1.00	0.00	H
ATOM	1545	CD	LYS	99	48.214	49.067	72.485	1.00	0.00	C
ATOM	1546	HD2	LYS	99	47.836	48.196	73.023	1.00	0.00	H
ATOM	1547	HD3	LYS	99	49.284	48.941	72.307	1.00	0.00	H
ATOM	1548	CE	LYS	99	47.983	50.327	73.327	1.00	0.00	C
ATOM	1549	HE2	LYS	99	48.370	51.187	72.774	1.00	0.00	H
ATOM	1550	HE3	LYS	99	46.908	50.471	73.463	1.00	0.00	H
ATOM	1551	NZ	LYS	99	48.652	50.244	74.649	1.00	0.00	N
ATOM	1552	HZ1	LYS	99	48.241	49.529	75.250	1.00	0.00	H
ATOM	1553	HZ2	LYS	99	48.587	51.124	75.139	1.00	0.00	H
ATOM	1554	HZ3	LYS	99	49.639	49.998	74.555	1.00	0.00	H
ATOM	1555	C	LYS	99	47.758	48.786	67.825	1.00	0.00	C
ATOM	1556	O	LYS	99	48.529	49.667	68.184	1.00	0.00	O
ATOM	1557	N	LEU	100	47.798	48.415	66.534	1.00	0.00	N
ATOM	1558	H	LEU	100	48.669	48.735	66.140	1.00	0.00	H

ATOM	1559	CA	LEU	100	46.721	48.415	65.511	1.00	0.00	C
ATOM	1560	HA	LEU	100	47.190	48.020	64.610	1.00	0.00	H
ATOM	1561	CB	LEU	100	45.566	47.446	65.842	1.00	0.00	C
ATOM	1562	HB2	LEU	100	45.982	46.447	65.968	1.00	0.00	H
ATOM	1563	HB3	LEU	100	45.116	47.759	66.783	1.00	0.00	H
ATOM	1564	CG	LEU	100	44.436	47.363	64.798	1.00	0.00	C
ATOM	1565	HG	LEU	100	44.019	48.355	64.623	1.00	0.00	H
ATOM	1566	CD1	LEU	100	44.921	46.777	63.468	1.00	0.00	C
ATOM	1567	HD11	LEU	100	45.671	47.423	63.017	1.00	0.00	H
ATOM	1568	HD12	LEU	100	44.083	46.700	62.774	1.00	0.00	H
ATOM	1569	HD13	LEU	100	45.345	45.785	63.624	1.00	0.00	H
ATOM	1570	CD2	LEU	100	43.320	46.461	65.327	1.00	0.00	C
ATOM	1571	HD21	LEU	100	43.696	45.454	65.503	1.00	0.00	H
ATOM	1572	HD22	LEU	100	42.934	46.866	66.265	1.00	0.00	H
ATOM	1573	HD23	LEU	100	42.504	46.423	64.607	1.00	0.00	H
ATOM	1574	C	LEU	100	46.263	49.841	65.138	1.00	0.00	C
ATOM	1575	O	LEU	100	46.071	50.666	66.021	1.00	0.00	O
ATOM	1576	N	ASP	101	46.129	50.140	63.838	1.00	0.00	N
ATOM	1577	H	ASP	101	46.284	49.421	63.147	1.00	0.00	H
ATOM	1578	CA	ASP	101	45.831	51.483	63.306	1.00	0.00	C
ATOM	1579	HA	ASP	101	45.012	51.917	63.883	1.00	0.00	H
ATOM	1580	CB	ASP	101	47.088	52.351	63.496	1.00	0.00	C
ATOM	1581	HB2	ASP	101	47.493	52.199	64.496	1.00	0.00	H
ATOM	1582	HB3	ASP	101	47.853	52.029	62.793	1.00	0.00	H
ATOM	1583	CG	ASP	101	46.843	53.848	63.350	1.00	0.00	C
ATOM	1584	OD1	ASP	101	45.692	54.297	63.160	1.00	0.00	O
ATOM	1585	OD2	ASP	101	47.824	54.613	63.449	1.00	0.00	O
ATOM	1586	C	ASP	101	45.409	51.426	61.813	1.00	0.00	C
ATOM	1587	O	ASP	101	45.701	50.443	61.132	1.00	0.00	O
ATOM	1588	N	CYS	102	44.747	52.458	61.275	1.00	0.00	N
ATOM	1589	H	CYS	102	44.678	53.307	61.833	1.00	0.00	H
ATOM	1590	CA	CYS	102	44.016	52.412	59.995	1.00	0.00	C
ATOM	1591	HA	CYS	102	44.385	51.579	59.393	1.00	0.00	H
ATOM	1592	CB	CYS	102	42.542	52.131	60.334	1.00	0.00	C
ATOM	1593	HB2	CYS	102	42.495	51.236	60.956	1.00	0.00	H
ATOM	1594	HB3	CYS	102	42.133	52.970	60.900	1.00	0.00	H
ATOM	1595	SG	CYS	102	41.522	51.849	58.855	1.00	0.00	S
ATOM	1596	HG	CYS	102	41.703	53.034	58.257	1.00	0.00	H
ATOM	1597	C	CYS	102	44.166	53.692	59.144	1.00	0.00	C
ATOM	1598	O	CYS	102	44.393	54.783	59.674	1.00	0.00	O
ATOM	1599	N	ARG	103	43.991	53.562	57.822	1.00	0.00	N
ATOM	1600	H	ARG	103	43.891	52.612	57.459	1.00	0.00	H
ATOM	1601	CA	ARG	103	43.919	54.640	56.820	1.00	0.00	C
ATOM	1602	HA	ARG	103	43.687	55.582	57.316	1.00	0.00	H
ATOM	1603	CB	ARG	103	45.278	54.749	56.099	1.00	0.00	C
ATOM	1604	HB2	ARG	103	45.501	53.781	55.645	1.00	0.00	H
ATOM	1605	HB3	ARG	103	45.178	55.468	55.290	1.00	0.00	H
ATOM	1606	CG	ARG	103	46.482	55.147	56.981	1.00	0.00	C
ATOM	1607	HG2	ARG	103	46.620	54.396	57.758	1.00	0.00	H
ATOM	1608	HG3	ARG	103	47.376	55.152	56.356	1.00	0.00	H
ATOM	1609	CD	ARG	103	46.327	56.532	57.628	1.00	0.00	C
ATOM	1610	HD2	ARG	103	46.287	57.273	56.836	1.00	0.00	H

ATOM	1611	HD3 ARG	103	45.386	56.563	58.175	1.00	0.00	H
ATOM	1612	NE ARG	103	47.418	56.866	58.571	1.00	0.00	N
ATOM	1613	HE ARG	103	47.926	56.100	58.972	1.00	0.00	H
ATOM	1614	CZ ARG	103	47.665	58.074	59.055	1.00	0.00	C
ATOM	1615	NH1 ARG	103	47.086	59.139	58.595	1.00	0.00	N
ATOM	1616	HH11 ARG	103	46.492	59.116	57.781	1.00	0.00	H
ATOM	1617	HH12 ARG	103	47.210	60.030	59.057	1.00	0.00	H
ATOM	1618	NH2 ARG	103	48.474	58.265	60.057	1.00	0.00	N
ATOM	1619	HH21 ARG	103	48.887	57.521	60.592	1.00	0.00	H
ATOM	1620	HH22 ARG	103	48.617	59.189	60.428	1.00	0.00	H
ATOM	1621	C ARG	103	42.773	54.378	55.822	1.00	0.00	C
ATOM	1622	O ARG	103	42.415	53.224	55.590	1.00	0.00	O
ATOM	1623	N PHE	104	42.156	55.436	55.284	1.00	0.00	N
ATOM	1624	H PHE	104	42.446	56.354	55.588	1.00	0.00	H
ATOM	1625	CA PHE	104	40.895	55.359	54.526	1.00	0.00	C
ATOM	1626	HA PHE	104	40.851	54.403	54.005	1.00	0.00	H
ATOM	1627	CB PHE	104	39.729	55.426	55.535	1.00	0.00	C
ATOM	1628	HB2 PHE	104	40.076	55.062	56.503	1.00	0.00	H
ATOM	1629	HB3 PHE	104	39.457	56.470	55.684	1.00	0.00	H
ATOM	1630	CG PHE	104	38.469	54.651	55.186	1.00	0.00	C
ATOM	1631	CD1 PHE	104	38.109	53.529	55.960	1.00	0.00	C
ATOM	1632	HD1 PHE	104	38.751	53.194	56.762	1.00	0.00	H
ATOM	1633	CE1 PHE	104	36.908	52.844	55.706	1.00	0.00	C
ATOM	1634	HE1 PHE	104	36.635	51.988	56.309	1.00	0.00	H
ATOM	1635	CZ PHE	104	36.058	53.279	54.676	1.00	0.00	C
ATOM	1636	HZ PHE	104	35.124	52.767	54.492	1.00	0.00	H
ATOM	1637	CE2 PHE	104	36.420	54.383	53.888	1.00	0.00	C
ATOM	1638	HE2 PHE	104	35.764	54.709	53.095	1.00	0.00	H
ATOM	1639	CD2 PHE	104	37.617	55.076	54.147	1.00	0.00	C
ATOM	1640	HD2 PHE	104	37.869	55.943	53.554	1.00	0.00	H
ATOM	1641	C PHE	104	40.772	56.492	53.483	1.00	0.00	C
ATOM	1642	O PHE	104	41.057	57.653	53.785	1.00	0.00	O
ATOM	1643	N GLY	105	40.293	56.174	52.277	1.00	0.00	N
ATOM	1644	H GLY	105	40.090	55.195	52.091	1.00	0.00	H
ATOM	1645	CA GLY	105	39.990	57.118	51.194	1.00	0.00	C
ATOM	1646	HA2 GLY	105	40.061	58.135	51.567	1.00	0.00	H
ATOM	1647	HA3 GLY	105	40.723	57.004	50.397	1.00	0.00	H
ATOM	1648	C GLY	105	38.596	56.895	50.592	1.00	0.00	C
ATOM	1649	O GLY	105	38.134	55.753	50.520	1.00	0.00	O
ATOM	1650	N ILE	106	37.919	57.975	50.168	1.00	0.00	N
ATOM	1651	H ILE	106	38.345	58.886	50.302	1.00	0.00	H
ATOM	1652	CA ILE	106	36.559	57.915	49.586	1.00	0.00	C
ATOM	1653	HA ILE	106	36.384	56.885	49.286	1.00	0.00	H
ATOM	1654	CB ILE	106	35.448	58.275	50.611	1.00	0.00	C
ATOM	1655	HB ILE	106	35.467	59.353	50.767	1.00	0.00	H
ATOM	1656	CG2 ILE	106	34.062	57.911	50.037	1.00	0.00	C
ATOM	1657	HG21 ILE	106	33.893	58.385	49.073	1.00	0.00	H
ATOM	1658	HG22 ILE	106	33.270	58.250	50.704	1.00	0.00	H
ATOM	1659	HG23 ILE	106	33.982	56.830	49.920	1.00	0.00	H
ATOM	1660	CG1 ILE	106	35.660	57.592	51.981	1.00	0.00	C
ATOM	1661	HG12 ILE	106	35.731	56.517	51.826	1.00	0.00	H
ATOM	1662	HG13 ILE	106	36.601	57.939	52.408	1.00	0.00	H

ATOM	1663	CD1	ILE	106	34.570	57.869	53.026	1.00	0.00	C
ATOM	1664	HD11	ILE	106	34.341	58.933	53.061	1.00	0.00	H
ATOM	1665	HD12	ILE	106	34.929	57.555	54.004	1.00	0.00	H
ATOM	1666	HD13	ILE	106	33.666	57.309	52.791	1.00	0.00	H
ATOM	1667	C	ILE	106	36.420	58.784	48.326	1.00	0.00	C
ATOM	1668	O	ILE	106	36.671	59.994	48.362	1.00	0.00	O
ATOM	1669	N	ASN	107	35.907	58.186	47.243	1.00	0.00	N
ATOM	1670	H	ASN	107	35.660	57.205	47.330	1.00	0.00	H
ATOM	1671	CA	ASN	107	35.612	58.848	45.964	1.00	0.00	C
ATOM	1672	HA	ASN	107	35.599	59.927	46.119	1.00	0.00	H
ATOM	1673	CB	ASN	107	36.726	58.527	44.949	1.00	0.00	C
ATOM	1674	HB2	ASN	107	37.176	57.567	45.179	1.00	0.00	H
ATOM	1675	HB3	ASN	107	36.321	58.460	43.941	1.00	0.00	H
ATOM	1676	CG	ASN	107	37.808	59.581	44.954	1.00	0.00	C
ATOM	1677	OD1	ASN	107	38.734	59.564	45.740	1.00	0.00	O
ATOM	1678	ND2	ASN	107	37.716	60.554	44.076	1.00	0.00	N
ATOM	1679	HD21	ASN	107	36.970	60.586	43.406	1.00	0.00	H
ATOM	1680	HD22	ASN	107	38.449	61.239	44.103	1.00	0.00	H
ATOM	1681	C	ASN	107	34.229	58.477	45.397	1.00	0.00	C
ATOM	1682	O	ASN	107	33.647	57.452	45.746	1.00	0.00	O
ATOM	1683	N	ALA	108	33.742	59.297	44.461	1.00	0.00	N
ATOM	1684	H	ALA	108	34.265	60.129	44.236	1.00	0.00	H
ATOM	1685	CA	ALA	108	32.573	59.033	43.621	1.00	0.00	C
ATOM	1686	HA	ALA	108	32.402	57.957	43.598	1.00	0.00	H
ATOM	1687	CB	ALA	108	31.342	59.693	44.256	1.00	0.00	C
ATOM	1688	HB1	ALA	108	31.185	59.291	45.258	1.00	0.00	H
ATOM	1689	HB2	ALA	108	30.456	59.481	43.656	1.00	0.00	H
ATOM	1690	HB3	ALA	108	31.484	60.772	44.320	1.00	0.00	H
ATOM	1691	C	ALA	108	32.842	59.530	42.177	1.00	0.00	C
ATOM	1692	O	ALA	108	33.598	60.487	41.999	1.00	0.00	O
ATOM	1693	N	GLY	109	32.282	58.933	41.121	1.00	0.00	N
ATOM	1694	H	GLY	109	32.626	59.226	40.220	1.00	0.00	H
ATOM	1695	CA	GLY	109	31.337	57.810	41.169	1.00	0.00	C
ATOM	1696	HA2	GLY	109	31.706	57.051	41.852	1.00	0.00	H
ATOM	1697	HA3	GLY	109	30.387	58.178	41.557	1.00	0.00	H
ATOM	1698	C	GLY	109	31.035	57.084	39.856	1.00	0.00	C
ATOM	1699	O	GLY	109	30.564	55.954	39.920	1.00	0.00	O
ATOM	1700	N	ASP	110	31.277	57.678	38.685	1.00	0.00	N
ATOM	1701	H	ASP	110	31.700	58.589	38.670	1.00	0.00	H
ATOM	1702	CA	ASP	110	30.980	57.054	37.384	1.00	0.00	C
ATOM	1703	HA	ASP	110	29.921	56.791	37.355	1.00	0.00	H
ATOM	1704	CB	ASP	110	31.254	58.104	36.288	1.00	0.00	C
ATOM	1705	HB2	ASP	110	30.851	59.063	36.620	1.00	0.00	H
ATOM	1706	HB3	ASP	110	32.332	58.224	36.166	1.00	0.00	H
ATOM	1707	CG	ASP	110	30.621	57.798	34.927	1.00	0.00	C
ATOM	1708	OD1	ASP	110	29.837	56.834	34.827	1.00	0.00	O
ATOM	1709	OD2	ASP	110	30.880	58.583	33.982	1.00	0.00	O
ATOM	1710	C	ASP	110	31.799	55.762	37.185	1.00	0.00	C
ATOM	1711	O	ASP	110	33.029	55.785	37.330	1.00	0.00	O
ATOM	1712	N	CYS	111	31.145	54.624	36.922	1.00	0.00	N
ATOM	1713	H	CYS	111	30.134	54.650	36.841	1.00	0.00	H
ATOM	1714	CA	CYS	111	31.799	53.320	36.769	1.00	0.00	C

ATOM	1715	HA	CYS	111	32.699	53.487	36.188	1.00	0.00	H
ATOM	1716	CB	CYS	111	32.189	52.777	38.160	1.00	0.00	C
ATOM	1717	HB2	CYS	111	32.846	51.914	38.042	1.00	0.00	H
ATOM	1718	HB3	CYS	111	32.728	53.545	38.715	1.00	0.00	H
ATOM	1719	SG	CYS	111	30.732	52.281	39.123	1.00	0.00	S
ATOM	1720	HG	CYS	111	30.043	53.426	38.956	1.00	0.00	H
ATOM	1721	C	CYS	111	30.975	52.289	35.979	1.00	0.00	C
ATOM	1722	O	CYS	111	29.751	52.402	35.862	1.00	0.00	O
ATOM	1723	N	MET	112	31.652	51.250	35.467	1.00	0.00	N
ATOM	1724	H	MET	112	32.651	51.197	35.623	1.00	0.00	H
ATOM	1725	CA	MET	112	30.977	50.019	35.040	1.00	0.00	C
ATOM	1726	HA	MET	112	29.957	50.278	34.766	1.00	0.00	H
ATOM	1727	CB	MET	112	31.618	49.411	33.781	1.00	0.00	C
ATOM	1728	HB2	MET	112	30.958	48.618	33.425	1.00	0.00	H
ATOM	1729	HB3	MET	112	31.668	50.172	33.002	1.00	0.00	H
ATOM	1730	CG	MET	112	33.016	48.810	33.970	1.00	0.00	C
ATOM	1731	HG2	MET	112	33.724	49.619	34.143	1.00	0.00	H
ATOM	1732	HG3	MET	112	33.019	48.152	34.838	1.00	0.00	H
ATOM	1733	SD	MET	112	33.571	47.847	32.539	1.00	0.00	S
ATOM	1734	CE	MET	112	35.214	47.345	33.113	1.00	0.00	C
ATOM	1735	HE1	MET	112	35.725	46.802	32.317	1.00	0.00	H
ATOM	1736	HE2	MET	112	35.797	48.227	33.379	1.00	0.00	H
ATOM	1737	HE3	MET	112	35.114	46.697	33.983	1.00	0.00	H
ATOM	1738	C	MET	112	30.904	49.022	36.204	1.00	0.00	C
ATOM	1739	O	MET	112	31.834	48.937	37.005	1.00	0.00	O
ATOM	1740	N	VAL	113	29.819	48.249	36.280	1.00	0.00	N
ATOM	1741	H	VAL	113	29.084	48.413	35.598	1.00	0.00	H
ATOM	1742	CA	VAL	113	29.562	47.241	37.322	1.00	0.00	C
ATOM	1743	HA	VAL	113	30.492	47.033	37.846	1.00	0.00	H
ATOM	1744	CB	VAL	113	28.527	47.736	38.358	1.00	0.00	C
ATOM	1745	HB	VAL	113	27.542	47.768	37.892	1.00	0.00	H
ATOM	1746	CG1	VAL	113	28.455	46.780	39.557	1.00	0.00	C
ATOM	1747	HG11	VAL	113	28.147	45.787	39.229	1.00	0.00	H
ATOM	1748	HG12	VAL	113	29.431	46.714	40.039	1.00	0.00	H
ATOM	1749	HG13	VAL	113	27.723	47.144	40.278	1.00	0.00	H
ATOM	1750	CG2	VAL	113	28.826	49.145	38.885	1.00	0.00	C
ATOM	1751	HG21	VAL	113	28.703	49.877	38.086	1.00	0.00	H
ATOM	1752	HG22	VAL	113	29.849	49.198	39.249	1.00	0.00	H
ATOM	1753	HG23	VAL	113	28.140	49.404	39.691	1.00	0.00	H
ATOM	1754	C	VAL	113	29.083	45.944	36.672	1.00	0.00	C
ATOM	1755	O	VAL	113	28.098	45.960	35.929	1.00	0.00	O
ATOM	1756	N	GLY	114	29.762	44.826	36.938	1.00	0.00	N
ATOM	1757	H	GLY	114	30.563	44.865	37.565	1.00	0.00	H
ATOM	1758	CA	GLY	114	29.428	43.537	36.330	1.00	0.00	C
ATOM	1759	HA2	GLY	114	28.459	43.206	36.701	1.00	0.00	H
ATOM	1760	HA3	GLY	114	29.341	43.674	35.253	1.00	0.00	H
ATOM	1761	C	GLY	114	30.449	42.426	36.581	1.00	0.00	C
ATOM	1762	O	GLY	114	31.297	42.514	37.471	1.00	0.00	O
ATOM	1763	N	VAL	115	30.341	41.372	35.769	1.00	0.00	N
ATOM	1764	H	VAL	115	29.617	41.393	35.067	1.00	0.00	H
ATOM	1765	CA	VAL	115	31.268	40.231	35.727	1.00	0.00	C
ATOM	1766	HA	VAL	115	31.425	39.884	36.744	1.00	0.00	H

ATOM	1767	CB	VAL	115	30.646	39.074	34.913	1.00	0.00	C
ATOM	1768	HB	VAL	115	30.414	39.431	33.909	1.00	0.00	H
ATOM	1769	CG1	VAL	115	31.584	37.868	34.792	1.00	0.00	C
ATOM	1770	HG11	VAL	115	31.877	37.533	35.784	1.00	0.00	H
ATOM	1771	HG12	VAL	115	31.077	37.060	34.265	1.00	0.00	H
ATOM	1772	HG13	VAL	115	32.469	38.132	34.212	1.00	0.00	H
ATOM	1773	CG2	VAL	115	29.345	38.572	35.559	1.00	0.00	C
ATOM	1774	HG21	VAL	115	28.609	39.374	35.612	1.00	0.00	H
ATOM	1775	HG22	VAL	115	29.545	38.192	36.560	1.00	0.00	H
ATOM	1776	HG23	VAL	115	28.917	37.773	34.950	1.00	0.00	H
ATOM	1777	C	VAL	115	32.624	40.642	35.131	1.00	0.00	C
ATOM	1778	O	VAL	115	32.660	41.332	34.116	1.00	0.00	O
ATOM	1779	N	PHE	116	33.735	40.188	35.722	1.00	0.00	N
ATOM	1780	H	PHE	116	33.636	39.676	36.592	1.00	0.00	H
ATOM	1781	CA	PHE	116	35.086	40.335	35.160	1.00	0.00	C
ATOM	1782	HA	PHE	116	35.000	40.245	34.075	1.00	0.00	H
ATOM	1783	CB	PHE	116	35.641	41.741	35.467	1.00	0.00	C
ATOM	1784	HB2	PHE	116	36.293	42.020	34.638	1.00	0.00	H
ATOM	1785	HB3	PHE	116	34.828	42.469	35.476	1.00	0.00	H
ATOM	1786	CG	PHE	116	36.432	41.871	36.760	1.00	0.00	C
ATOM	1787	CD1	PHE	116	37.807	42.166	36.709	1.00	0.00	C
ATOM	1788	HD1	PHE	116	38.287	42.312	35.754	1.00	0.00	H
ATOM	1789	CE1	PHE	116	38.552	42.295	37.896	1.00	0.00	C
ATOM	1790	HE1	PHE	116	39.600	42.550	37.853	1.00	0.00	H
ATOM	1791	CZ	PHE	116	37.931	42.104	39.140	1.00	0.00	C
ATOM	1792	HZ	PHE	116	38.507	42.194	40.052	1.00	0.00	H
ATOM	1793	CE2	PHE	116	36.560	41.805	39.194	1.00	0.00	C
ATOM	1794	HE2	PHE	116	36.081	41.666	40.153	1.00	0.00	H
ATOM	1795	CD2	PHE	116	35.807	41.698	38.009	1.00	0.00	C
ATOM	1796	HD2	PHE	116	34.749	41.479	38.056	1.00	0.00	H
ATOM	1797	C	PHE	116	36.051	39.231	35.641	1.00	0.00	C
ATOM	1798	O	PHE	116	35.863	38.642	36.710	1.00	0.00	O
ATOM	1799	N	GLY	117	37.107	38.956	34.872	1.00	0.00	N
ATOM	1800	H	GLY	117	37.197	39.432	33.984	1.00	0.00	H
ATOM	1801	CA	GLY	117	38.134	37.953	35.184	1.00	0.00	C
ATOM	1802	HA2	GLY	117	39.002	38.443	35.626	1.00	0.00	H
ATOM	1803	HA3	GLY	117	37.750	37.223	35.897	1.00	0.00	H
ATOM	1804	C	GLY	117	38.586	37.221	33.923	1.00	0.00	C
ATOM	1805	O	GLY	117	38.863	37.863	32.913	1.00	0.00	O
ATOM	1806	N	CYS	118	38.610	35.888	33.975	1.00	0.00	N
ATOM	1807	H	CYS	118	38.370	35.430	34.847	1.00	0.00	H
ATOM	1808	CA	CYS	118	38.744	35.019	32.802	1.00	0.00	C
ATOM	1809	HA	CYS	118	38.512	35.591	31.900	1.00	0.00	H
ATOM	1810	CB	CYS	118	40.191	34.520	32.686	1.00	0.00	C
ATOM	1811	HB2	CYS	118	40.307	33.979	31.744	1.00	0.00	H
ATOM	1812	HB3	CYS	118	40.872	35.373	32.679	1.00	0.00	H
ATOM	1813	SG	CYS	118	40.596	33.412	34.068	1.00	0.00	S
ATOM	1814	HG	CYS	118	41.109	34.368	34.860	1.00	0.00	H
ATOM	1815	C	CYS	118	37.740	33.855	32.872	1.00	0.00	C
ATOM	1816	O	CYS	118	37.129	33.597	33.912	1.00	0.00	O
ATOM	1817	N	SER	119	37.604	33.101	31.781	1.00	0.00	N
ATOM	1818	H	SER	119	38.148	33.358	30.957	1.00	0.00	H

ATOM	1819	CA	SER	119	36.617	32.018	31.619	1.00	0.00	C
ATOM	1820	HA	SER	119	35.616	32.443	31.698	1.00	0.00	H
ATOM	1821	CB	SER	119	36.769	31.402	30.223	1.00	0.00	C
ATOM	1822	HB2	SER	119	37.736	30.902	30.145	1.00	0.00	H
ATOM	1823	HB3	SER	119	35.983	30.661	30.078	1.00	0.00	H
ATOM	1824	OG	SER	119	36.682	32.400	29.217	1.00	0.00	O
ATOM	1825	HG	SER	119	37.582	32.828	29.178	1.00	0.00	H
ATOM	1826	C	SER	119	36.728	30.892	32.660	1.00	0.00	C
ATOM	1827	O	SER	119	35.757	30.168	32.897	1.00	0.00	O
ATOM	1828	N	LYS	120	37.907	30.742	33.283	1.00	0.00	N
ATOM	1829	H	LYS	120	38.639	31.387	33.013	1.00	0.00	H
ATOM	1830	CA	LYS	120	38.220	29.751	34.329	1.00	0.00	C
ATOM	1831	HA	LYS	120	37.642	28.842	34.149	1.00	0.00	H
ATOM	1832	CB	LYS	120	39.724	29.403	34.268	1.00	0.00	C
ATOM	1833	HB2	LYS	120	40.298	30.259	34.628	1.00	0.00	H
ATOM	1834	HB3	LYS	120	39.911	28.566	34.944	1.00	0.00	H
ATOM	1835	CG	LYS	120	40.241	29.031	32.863	1.00	0.00	C
ATOM	1836	HG2	LYS	120	39.659	28.198	32.466	1.00	0.00	H
ATOM	1837	HG3	LYS	120	40.129	29.889	32.199	1.00	0.00	H
ATOM	1838	CD	LYS	120	41.726	28.641	32.901	1.00	0.00	C
ATOM	1839	HD2	LYS	120	42.281	29.393	33.468	1.00	0.00	H
ATOM	1840	HD3	LYS	120	41.837	27.675	33.396	1.00	0.00	H
ATOM	1841	CE	LYS	120	42.309	28.572	31.483	1.00	0.00	C
ATOM	1842	HE2	LYS	120	41.756	27.838	30.887	1.00	0.00	H
ATOM	1843	HE3	LYS	120	42.193	29.553	31.015	1.00	0.00	H
ATOM	1844	NZ	LYS	120	43.743	28.215	31.517	1.00	0.00	N
ATOM	1845	HZ1	LYS	120	43.888	27.219	31.666	1.00	0.00	H
ATOM	1846	HZ2	LYS	120	44.235	28.718	32.251	1.00	0.00	H
ATOM	1847	HZ3	LYS	120	44.214	28.443	30.644	1.00	0.00	H
ATOM	1848	C	LYS	120	37.865	30.231	35.747	1.00	0.00	C
ATOM	1849	O	LYS	120	37.611	29.407	36.625	1.00	0.00	O
ATOM	1850	N	LYS	121	37.880	31.553	35.976	1.00	0.00	N
ATOM	1851	H	LYS	121	38.045	32.151	35.174	1.00	0.00	H
ATOM	1852	CA	LYS	121	37.634	32.218	37.266	1.00	0.00	C
ATOM	1853	HA	LYS	121	36.816	31.697	37.766	1.00	0.00	H
ATOM	1854	CB	LYS	121	38.888	32.097	38.162	1.00	0.00	C
ATOM	1855	HB2	LYS	121	38.994	31.055	38.469	1.00	0.00	H
ATOM	1856	HB3	LYS	121	39.769	32.354	37.569	1.00	0.00	H
ATOM	1857	CG	LYS	121	38.907	32.982	39.424	1.00	0.00	C
ATOM	1858	HG2	LYS	121	39.788	32.719	40.012	1.00	0.00	H
ATOM	1859	HG3	LYS	121	39.033	34.019	39.109	1.00	0.00	H
ATOM	1860	CD	LYS	121	37.668	32.893	40.334	1.00	0.00	C
ATOM	1861	HD2	LYS	121	36.765	33.041	39.744	1.00	0.00	H
ATOM	1862	HD3	LYS	121	37.620	31.917	40.818	1.00	0.00	H
ATOM	1863	CE	LYS	121	37.766	34.007	41.385	1.00	0.00	C
ATOM	1864	HE2	LYS	121	38.435	33.700	42.194	1.00	0.00	H
ATOM	1865	HE3	LYS	121	38.207	34.883	40.904	1.00	0.00	H
ATOM	1866	NZ	LYS	121	36.448	34.408	41.928	1.00	0.00	N
ATOM	1867	HZ1	LYS	121	36.532	35.324	42.355	1.00	0.00	H
ATOM	1868	HZ2	LYS	121	36.126	33.803	42.680	1.00	0.00	H
ATOM	1869	HZ3	LYS	121	35.750	34.496	41.193	1.00	0.00	H
ATOM	1870	C	LYS	121	37.206	33.672	37.034	1.00	0.00	C

ATOM	1871	O	LYS	121	38.017	34.552	36.738	1.00	0.00	O
ATOM	1872	N	LEU	122	35.912	33.907	37.233	1.00	0.00	N
ATOM	1873	H	LEU	122	35.328	33.118	37.456	1.00	0.00	H
ATOM	1874	CA	LEU	122	35.266	35.217	37.182	1.00	0.00	C
ATOM	1875	HA	LEU	122	35.978	35.936	36.773	1.00	0.00	H
ATOM	1876	CB	LEU	122	34.093	35.158	36.183	1.00	0.00	C
ATOM	1877	HB2	LEU	122	33.665	36.153	36.079	1.00	0.00	H
ATOM	1878	HB3	LEU	122	34.528	34.905	35.213	1.00	0.00	H
ATOM	1879	CG	LEU	122	32.968	34.143	36.484	1.00	0.00	C
ATOM	1880	HG	LEU	122	33.401	33.203	36.825	1.00	0.00	H
ATOM	1881	CD1	LEU	122	31.974	34.637	37.540	1.00	0.00	C
ATOM	1882	HD11	LEU	122	32.461	34.728	38.508	1.00	0.00	H
ATOM	1883	HD12	LEU	122	31.166	33.912	37.642	1.00	0.00	H
ATOM	1884	HD13	LEU	122	31.557	35.599	37.246	1.00	0.00	H
ATOM	1885	CD2	LEU	122	32.183	33.854	35.205	1.00	0.00	C
ATOM	1886	HD21	LEU	122	31.692	34.757	34.845	1.00	0.00	H
ATOM	1887	HD22	LEU	122	32.856	33.480	34.433	1.00	0.00	H
ATOM	1888	HD23	LEU	122	31.437	33.084	35.398	1.00	0.00	H
ATOM	1889	C	LEU	122	34.901	35.738	38.583	1.00	0.00	C
ATOM	1890	O	LEU	122	34.966	35.017	39.583	1.00	0.00	O
ATOM	1891	N	ASN	123	34.554	37.019	38.642	1.00	0.00	N
ATOM	1892	H	ASN	123	34.562	37.539	37.770	1.00	0.00	H
ATOM	1893	CA	ASN	123	34.307	37.823	39.838	1.00	0.00	C
ATOM	1894	HA	ASN	123	33.955	37.182	40.645	1.00	0.00	H
ATOM	1895	CB	ASN	123	35.614	38.525	40.265	1.00	0.00	C
ATOM	1896	HB2	ASN	123	35.748	39.392	39.627	1.00	0.00	H
ATOM	1897	HB3	ASN	123	35.525	38.870	41.294	1.00	0.00	H
ATOM	1898	CG	ASN	123	36.873	37.688	40.137	1.00	0.00	C
ATOM	1899	OD1	ASN	123	37.289	37.003	41.057	1.00	0.00	O
ATOM	1900	ND2	ASN	123	37.500	37.694	38.981	1.00	0.00	N
ATOM	1901	HD21	ASN	123	37.098	38.215	38.207	1.00	0.00	H
ATOM	1902	HD22	ASN	123	38.298	37.099	38.870	1.00	0.00	H
ATOM	1903	C	ASN	123	33.232	38.875	39.504	1.00	0.00	C
ATOM	1904	O	ASN	123	33.041	39.172	38.324	1.00	0.00	O
ATOM	1905	N	TYR	124	32.576	39.486	40.495	1.00	0.00	N
ATOM	1906	H	TYR	124	32.722	39.172	41.446	1.00	0.00	H
ATOM	1907	CA	TYR	124	31.588	40.554	40.262	1.00	0.00	C
ATOM	1908	HA	TYR	124	31.599	40.832	39.210	1.00	0.00	H
ATOM	1909	CB	TYR	124	30.186	40.013	40.566	1.00	0.00	C
ATOM	1910	HB2	TYR	124	30.083	39.032	40.099	1.00	0.00	H
ATOM	1911	HB3	TYR	124	30.076	39.870	41.642	1.00	0.00	H
ATOM	1912	CG	TYR	124	29.063	40.899	40.063	1.00	0.00	C
ATOM	1913	CD1	TYR	124	28.650	42.029	40.797	1.00	0.00	C
ATOM	1914	HD1	TYR	124	29.155	42.283	41.718	1.00	0.00	H
ATOM	1915	CE1	TYR	124	27.585	42.824	40.326	1.00	0.00	C
ATOM	1916	HE1	TYR	124	27.253	43.690	40.877	1.00	0.00	H
ATOM	1917	CZ	TYR	124	26.929	42.487	39.123	1.00	0.00	C
ATOM	1918	OH	TYR	124	25.879	43.235	38.692	1.00	0.00	O
ATOM	1919	HH	TYR	124	25.317	42.738	38.077	1.00	0.00	H
ATOM	1920	CE2	TYR	124	27.365	41.371	38.377	1.00	0.00	C
ATOM	1921	HE2	TYR	124	26.888	41.120	37.444	1.00	0.00	H
ATOM	1922	CD2	TYR	124	28.428	40.582	38.847	1.00	0.00	C



ATOM	1923	HD2 TYR	124	28.751	39.724	38.275	1.00	0.00	H
ATOM	1924	C TYR	124	31.906	41.821	41.073	1.00	0.00	C
ATOM	1925	O TYR	124	31.884	41.783	42.303	1.00	0.00	O
ATOM	1926	N THR	125	32.193	42.949	40.409	1.00	0.00	N
ATOM	1927	H THR	125	32.106	42.954	39.395	1.00	0.00	H
ATOM	1928	CA THR	125	32.555	44.219	41.079	1.00	0.00	C
ATOM	1929	HA THR	125	31.897	44.344	41.938	1.00	0.00	H
ATOM	1930	CB THR	125	33.997	44.148	41.632	1.00	0.00	C
ATOM	1931	HB THR	125	34.156	43.172	42.093	1.00	0.00	H
ATOM	1932	CG2 THR	125	35.080	44.379	40.580	1.00	0.00	C
ATOM	1933	HG21 THR	125	36.044	44.054	40.970	1.00	0.00	H
ATOM	1934	HG22 THR	125	35.149	45.432	40.314	1.00	0.00	H
ATOM	1935	HG23 THR	125	34.843	43.813	39.681	1.00	0.00	H
ATOM	1936	OG1 THR	125	34.182	45.138	42.621	1.00	0.00	O
ATOM	1937	HG1 THR	125	35.101	45.087	42.900	1.00	0.00	H
ATOM	1938	C THR	125	32.351	45.454	40.183	1.00	0.00	C
ATOM	1939	O THR	125	31.885	45.339	39.048	1.00	0.00	O
ATOM	1940	N ALA	126	32.681	46.641	40.702	1.00	0.00	N
ATOM	1941	H ALA	126	33.116	46.623	41.616	1.00	0.00	H
ATOM	1942	CA ALA	126	32.739	47.907	39.969	1.00	0.00	C
ATOM	1943	HA ALA	126	32.127	47.822	39.076	1.00	0.00	H
ATOM	1944	CB ALA	126	32.152	49.011	40.852	1.00	0.00	C
ATOM	1945	HB1 ALA	126	32.093	49.939	40.284	1.00	0.00	H
ATOM	1946	HB2 ALA	126	32.796	49.171	41.717	1.00	0.00	H
ATOM	1947	HB3 ALA	126	31.151	48.733	41.185	1.00	0.00	H
ATOM	1948	C ALA	126	34.177	48.269	39.546	1.00	0.00	C
ATOM	1949	O ALA	126	35.113	48.041	40.315	1.00	0.00	O
ATOM	1950	N ILE	127	34.357	48.869	38.361	1.00	0.00	N
ATOM	1951	H ILE	127	33.533	49.025	37.785	1.00	0.00	H
ATOM	1952	CA ILE	127	35.666	49.253	37.797	1.00	0.00	C
ATOM	1953	HA ILE	127	36.363	49.399	38.619	1.00	0.00	H
ATOM	1954	CB ILE	127	36.227	48.130	36.879	1.00	0.00	C
ATOM	1955	HB ILE	127	35.558	48.029	36.023	1.00	0.00	H
ATOM	1956	CG2 ILE	127	37.618	48.529	36.344	1.00	0.00	C
ATOM	1957	HG21 ILE	127	37.557	49.449	35.766	1.00	0.00	H
ATOM	1958	HG22 ILE	127	38.007	47.763	35.673	1.00	0.00	H
ATOM	1959	HG23 ILE	127	38.318	48.671	37.167	1.00	0.00	H
ATOM	1960	CG1 ILE	127	36.273	46.757	37.596	1.00	0.00	C
ATOM	1961	HG12 ILE	127	36.851	46.844	38.514	1.00	0.00	H
ATOM	1962	HG13 ILE	127	35.258	46.463	37.859	1.00	0.00	H
ATOM	1963	CD1 ILE	127	36.851	45.597	36.785	1.00	0.00	C
ATOM	1964	HD11 ILE	127	36.367	45.541	35.810	1.00	0.00	H
ATOM	1965	HD12 ILE	127	36.668	44.671	37.326	1.00	0.00	H
ATOM	1966	HD13 ILE	127	37.927	45.718	36.667	1.00	0.00	H
ATOM	1967	C ILE	127	35.570	50.590	37.038	1.00	0.00	C
ATOM	1968	O ILE	127	34.745	50.722	36.135	1.00	0.00	O
ATOM	1969	N SER	128	36.427	51.565	37.382	1.00	0.00	N
ATOM	1970	H SER	128	37.034	51.412	38.175	1.00	0.00	H
ATOM	1971	CA SER	128	36.704	52.797	36.611	1.00	0.00	C
ATOM	1972	HA SER	128	37.046	52.526	35.612	1.00	0.00	H
ATOM	1973	CB SER	128	35.449	53.674	36.474	1.00	0.00	C
ATOM	1974	HB2 SER	128	35.647	54.484	35.771	1.00	0.00	H

ATOM	1975	HB3	SER	128	34.640	53.086	36.057	1.00	0.00	H
ATOM	1976	OG	SER	128	35.068	54.234	37.717	1.00	0.00	O
ATOM	1977	HG	SER	128	34.270	54.784	37.546	1.00	0.00	H
ATOM	1978	C	SER	128	37.783	53.669	37.275	1.00	0.00	C
ATOM	1979	O	SER	128	38.256	53.371	38.377	1.00	0.00	O
ATOM	1980	N	ASP	129	38.075	54.816	36.647	1.00	0.00	N
ATOM	1981	H	ASP	129	37.693	54.961	35.721	1.00	0.00	H
ATOM	1982	CA	ASP	129	38.843	55.938	37.207	1.00	0.00	C
ATOM	1983	HA	ASP	129	39.893	55.651	37.227	1.00	0.00	H
ATOM	1984	CB	ASP	129	38.693	57.134	36.240	1.00	0.00	C
ATOM	1985	HB2	ASP	129	38.888	56.790	35.223	1.00	0.00	H
ATOM	1986	HB3	ASP	129	37.665	57.501	36.281	1.00	0.00	H
ATOM	1987	CG	ASP	129	39.653	58.291	36.536	1.00	0.00	C
ATOM	1988	OD1	ASP	129	40.608	58.107	37.318	1.00	0.00	O
ATOM	1989	OD2	ASP	129	39.485	59.421	36.004	1.00	0.00	O
ATOM	1990	C	ASP	129	38.416	56.338	38.645	1.00	0.00	C
ATOM	1991	O	ASP	129	39.239	56.759	39.458	1.00	0.00	O
ATOM	1992	N	THR	130	37.147	56.143	39.031	1.00	0.00	N
ATOM	1993	H	THR	130	36.494	55.733	38.375	1.00	0.00	H
ATOM	1994	CA	THR	130	36.696	56.453	40.401	1.00	0.00	C
ATOM	1995	HA	THR	130	36.883	57.510	40.590	1.00	0.00	H
ATOM	1996	CB	THR	130	35.186	56.209	40.572	1.00	0.00	C
ATOM	1997	HB	THR	130	34.954	55.161	40.377	1.00	0.00	H
ATOM	1998	CG2	THR	130	34.717	56.576	41.980	1.00	0.00	C
ATOM	1999	HG21	THR	130	33.668	56.315	42.086	1.00	0.00	H
ATOM	2000	HG22	THR	130	34.860	57.641	42.145	1.00	0.00	H
ATOM	2001	HG23	THR	130	35.269	56.028	42.739	1.00	0.00	H
ATOM	2002	OG1	THR	130	34.438	57.033	39.701	1.00	0.00	O
ATOM	2003	HG1	THR	130	34.220	56.538	38.897	1.00	0.00	H
ATOM	2004	C	THR	130	37.479	55.661	41.457	1.00	0.00	C
ATOM	2005	O	THR	130	37.866	56.218	42.486	1.00	0.00	O
ATOM	2006	N	VAL	131	37.740	54.371	41.211	1.00	0.00	N
ATOM	2007	H	VAL	131	37.495	53.995	40.301	1.00	0.00	H
ATOM	2008	CA	VAL	131	38.438	53.496	42.171	1.00	0.00	C
ATOM	2009	HA	VAL	131	38.146	53.804	43.172	1.00	0.00	H
ATOM	2010	CB	VAL	131	38.035	52.019	42.001	1.00	0.00	C
ATOM	2011	HB	VAL	131	38.597	51.611	41.168	1.00	0.00	H
ATOM	2012	CG1	VAL	131	38.391	51.246	43.278	1.00	0.00	C
ATOM	2013	HG11	VAL	131	39.471	51.216	43.412	1.00	0.00	H
ATOM	2014	HG12	VAL	131	37.958	51.715	44.156	1.00	0.00	H
ATOM	2015	HG13	VAL	131	38.009	50.232	43.221	1.00	0.00	H
ATOM	2016	CG2	VAL	131	36.550	51.783	41.679	1.00	0.00	C
ATOM	2017	HG21	VAL	131	35.918	52.208	42.453	1.00	0.00	H
ATOM	2018	HG22	VAL	131	36.354	50.712	41.612	1.00	0.00	H
ATOM	2019	HG23	VAL	131	36.294	52.229	40.718	1.00	0.00	H
ATOM	2020	C	VAL	131	39.962	53.659	42.095	1.00	0.00	C
ATOM	2021	O	VAL	131	40.644	53.581	43.116	1.00	0.00	O
ATOM	2022	N	ASN	132	40.485	53.986	40.909	1.00	0.00	N
ATOM	2023	H	ASN	132	39.864	54.009	40.110	1.00	0.00	H
ATOM	2024	CA	ASN	132	41.860	54.456	40.710	1.00	0.00	C
ATOM	2025	HA	ASN	132	42.557	53.665	40.980	1.00	0.00	H
ATOM	2026	CB	ASN	132	42.005	54.795	39.214	1.00	0.00	C

ATOM	2027	HB2 ASN	132	41.915	53.885	38.623	1.00	0.00	H
ATOM	2028	HB3 ASN	132	41.190	55.444	38.927	1.00	0.00	H
ATOM	2029	CG ASN	132	43.281	55.505	38.799	1.00	0.00	C
ATOM	2030	OD1 ASN	132	44.336	55.406	39.410	1.00	0.00	O
ATOM	2031	ND2 ASN	132	43.226	56.260	37.731	1.00	0.00	N
ATOM	2032	HD21 ASN	132	42.348	56.402	37.240	1.00	0.00	H
ATOM	2033	HD22 ASN	132	44.082	56.402	37.223	1.00	0.00	H
ATOM	2034	C ASN	132	42.166	55.661	41.613	1.00	0.00	C
ATOM	2035	O ASN	132	43.117	55.632	42.398	1.00	0.00	O
ATOM	2036	N VAL	133	41.315	56.694	41.569	1.00	0.00	N
ATOM	2037	H VAL	133	40.553	56.673	40.895	1.00	0.00	H
ATOM	2038	CA VAL	133	41.465	57.860	42.447	1.00	0.00	C
ATOM	2039	HA VAL	133	42.499	58.195	42.368	1.00	0.00	H
ATOM	2040	CB VAL	133	40.579	59.040	42.003	1.00	0.00	C
ATOM	2041	HB VAL	133	39.530	58.743	42.033	1.00	0.00	H
ATOM	2042	CG1 VAL	133	40.782	60.273	42.892	1.00	0.00	C
ATOM	2043	HG11 VAL	133	41.831	60.569	42.896	1.00	0.00	H
ATOM	2044	HG12 VAL	133	40.174	61.102	42.529	1.00	0.00	H
ATOM	2045	HG13 VAL	133	40.482	60.046	43.912	1.00	0.00	H
ATOM	2046	CG2 VAL	133	40.938	59.500	40.582	1.00	0.00	C
ATOM	2047	HG21 VAL	133	41.974	59.837	40.552	1.00	0.00	H
ATOM	2048	HG22 VAL	133	40.269	60.307	40.285	1.00	0.00	H
ATOM	2049	HG23 VAL	133	40.813	58.675	39.882	1.00	0.00	H
ATOM	2050	C VAL	133	41.261	57.475	43.916	1.00	0.00	C
ATOM	2051	O VAL	133	42.100	57.857	44.723	1.00	0.00	O
ATOM	2052	N ALA	134	40.261	56.654	44.271	1.00	0.00	N
ATOM	2053	H ALA	134	39.593	56.363	43.567	1.00	0.00	H
ATOM	2054	CA ALA	134	40.044	56.217	45.661	1.00	0.00	C
ATOM	2055	HA ALA	134	39.759	57.089	46.252	1.00	0.00	H
ATOM	2056	CB ALA	134	38.892	55.200	45.706	1.00	0.00	C
ATOM	2057	HB1 ALA	134	38.025	55.569	45.165	1.00	0.00	H
ATOM	2058	HB2 ALA	134	38.612	55.019	46.745	1.00	0.00	H
ATOM	2059	HB3 ALA	134	39.205	54.255	45.261	1.00	0.00	H
ATOM	2060	C ALA	134	41.308	55.609	46.305	1.00	0.00	C
ATOM	2061	O ALA	134	41.672	55.969	47.424	1.00	0.00	O
ATOM	2062	N SER	135	42.009	54.730	45.579	1.00	0.00	N
ATOM	2063	H SER	135	41.647	54.473	44.666	1.00	0.00	H
ATOM	2064	CA SER	135	43.245	54.089	46.048	1.00	0.00	C
ATOM	2065	HA SER	135	43.066	53.691	47.046	1.00	0.00	H
ATOM	2066	CB SER	135	43.564	52.911	45.120	1.00	0.00	C
ATOM	2067	HB2 SER	135	42.688	52.266	45.039	1.00	0.00	H
ATOM	2068	HB3 SER	135	43.810	53.287	44.125	1.00	0.00	H
ATOM	2069	OG SER	135	44.648	52.153	45.612	1.00	0.00	O
ATOM	2070	HG SER	135	44.393	51.770	46.463	1.00	0.00	H
ATOM	2071	C SER	135	44.425	55.070	46.162	1.00	0.00	C
ATOM	2072	O SER	135	45.146	55.067	47.166	1.00	0.00	O
ATOM	2073	N ARG	136	44.596	55.985	45.192	1.00	0.00	N
ATOM	2074	H ARG	136	43.969	55.961	44.392	1.00	0.00	H
ATOM	2075	CA ARG	136	45.623	57.048	45.271	1.00	0.00	C
ATOM	2076	HA ARG	136	46.560	56.582	45.583	1.00	0.00	H
ATOM	2077	CB ARG	136	45.867	57.691	43.882	1.00	0.00	C
ATOM	2078	HB2 ARG	136	44.937	58.136	43.524	1.00	0.00	H

ATOM	2079	HB3 ARG	136	46.602	58.489	44.002	1.00	0.00	H
ATOM	2080	CG ARG	136	46.399	56.700	42.815	1.00	0.00	C
ATOM	2081	HG2 ARG	136	47.246	56.148	43.223	1.00	0.00	H
ATOM	2082	HG3 ARG	136	45.615	55.981	42.587	1.00	0.00	H
ATOM	2083	CD ARG	136	46.851	57.385	41.504	1.00	0.00	C
ATOM	2084	HD2 ARG	136	46.201	58.241	41.317	1.00	0.00	H
ATOM	2085	HD3 ARG	136	47.872	57.752	41.629	1.00	0.00	H
ATOM	2086	NE ARG	136	46.754	56.480	40.334	1.00	0.00	N
ATOM	2087	HE ARG	136	45.872	55.984	40.229	1.00	0.00	H
ATOM	2088	CZ ARG	136	47.598	56.279	39.329	1.00	0.00	C
ATOM	2089	NH1 ARG	136	48.759	56.857	39.205	1.00	0.00	N
ATOM	2090	HH11 ARG	136	49.108	57.517	39.893	1.00	0.00	H
ATOM	2091	HH12 ARG	136	49.314	56.597	38.406	1.00	0.00	H
ATOM	2092	NH2 ARG	136	47.273	55.470	38.366	1.00	0.00	N
ATOM	2093	HH21 ARG	136	46.378	55.004	38.361	1.00	0.00	H
ATOM	2094	HH22 ARG	136	47.905	55.294	37.575	1.00	0.00	H
ATOM	2095	C ARG	136	45.313	58.085	46.375	1.00	0.00	C
ATOM	2096	O ARG	136	46.245	58.612	46.980	1.00	0.00	O
ATOM	2097	N ILE	137	44.038	58.339	46.694	1.00	0.00	N
ATOM	2098	H ILE	137	43.318	57.907	46.124	1.00	0.00	H
ATOM	2099	CA ILE	137	43.606	59.190	47.820	1.00	0.00	C
ATOM	2100	HA ILE	137	44.234	60.079	47.837	1.00	0.00	H
ATOM	2101	CB ILE	137	42.131	59.638	47.646	1.00	0.00	C
ATOM	2102	HB ILE	137	41.529	58.759	47.409	1.00	0.00	H
ATOM	2103	CG2 ILE	137	41.544	60.237	48.939	1.00	0.00	C
ATOM	2104	HG21 ILE	137	41.428	59.463	49.698	1.00	0.00	H
ATOM	2105	HG22 ILE	137	40.554	60.654	48.747	1.00	0.00	H
ATOM	2106	HG23 ILE	137	42.203	61.011	49.330	1.00	0.00	H
ATOM	2107	CG1 ILE	137	41.954	60.648	46.487	1.00	0.00	C
ATOM	2108	HG12 ILE	137	42.098	60.135	45.544	1.00	0.00	H
ATOM	2109	HG13 ILE	137	40.930	61.021	46.496	1.00	0.00	H
ATOM	2110	CD1 ILE	137	42.910	61.843	46.485	1.00	0.00	C
ATOM	2111	HD11 ILE	137	42.993	62.270	47.483	1.00	0.00	H
ATOM	2112	HD12 ILE	137	42.542	62.601	45.793	1.00	0.00	H
ATOM	2113	HD13 ILE	137	43.895	61.518	46.151	1.00	0.00	H
ATOM	2114	C ILE	137	43.837	58.518	49.176	1.00	0.00	C
ATOM	2115	O ILE	137	44.375	59.162	50.077	1.00	0.00	O
ATOM	2116	N GLU	138	43.498	57.234	49.329	1.00	0.00	N
ATOM	2117	H GLU	138	43.014	56.752	48.576	1.00	0.00	H
ATOM	2118	CA GLU	138	43.836	56.480	50.544	1.00	0.00	C
ATOM	2119	HA GLU	138	43.372	56.972	51.400	1.00	0.00	H
ATOM	2120	CB GLU	138	43.273	55.051	50.460	1.00	0.00	C
ATOM	2121	HB2 GLU	138	42.197	55.126	50.309	1.00	0.00	H
ATOM	2122	HB3 GLU	138	43.691	54.539	49.593	1.00	0.00	H
ATOM	2123	CG GLU	138	43.510	54.218	51.734	1.00	0.00	C
ATOM	2124	HG2 GLU	138	43.192	54.803	52.600	1.00	0.00	H
ATOM	2125	HG3 GLU	138	42.878	53.333	51.686	1.00	0.00	H
ATOM	2126	CD GLU	138	44.959	53.751	51.912	1.00	0.00	C
ATOM	2127	OE1 GLU	138	45.510	53.927	53.021	1.00	0.00	O
ATOM	2128	OE2 GLU	138	45.568	53.279	50.934	1.00	0.00	O
ATOM	2129	C GLU	138	45.352	56.504	50.774	1.00	0.00	C
ATOM	2130	O GLU	138	45.796	56.859	51.866	1.00	0.00	O

ATOM	2131	N	THR	139	46.149	56.267	49.725	1.00	0.00	N
ATOM	2132	H	THR	139	45.710	55.929	48.874	1.00	0.00	H
ATOM	2133	CA	THR	139	47.618	56.341	49.784	1.00	0.00	C
ATOM	2134	HA	THR	139	47.974	55.528	50.413	1.00	0.00	H
ATOM	2135	CB	THR	139	48.235	56.134	48.390	1.00	0.00	C
ATOM	2136	HB	THR	139	47.852	56.886	47.705	1.00	0.00	H
ATOM	2137	CG2	THR	139	49.763	56.219	48.399	1.00	0.00	C
ATOM	2138	HG21	THR	139	50.085	57.233	48.636	1.00	0.00	H
ATOM	2139	HG22	THR	139	50.144	55.956	47.412	1.00	0.00	H
ATOM	2140	HG23	THR	139	50.165	55.525	49.137	1.00	0.00	H
ATOM	2141	OG1	THR	139	47.926	54.859	47.881	1.00	0.00	O
ATOM	2142	HG1	THR	139	46.962	54.765	47.818	1.00	0.00	H
ATOM	2143	C	THR	139	48.091	57.673	50.391	1.00	0.00	C
ATOM	2144	O	THR	139	48.907	57.683	51.319	1.00	0.00	O
ATOM	2145	N	ALA	140	47.526	58.799	49.936	1.00	0.00	N
ATOM	2146	H	ALA	140	46.815	58.712	49.218	1.00	0.00	H
ATOM	2147	CA	ALA	140	47.899	60.157	50.347	1.00	0.00	C
ATOM	2148	HA	ALA	140	48.968	60.276	50.166	1.00	0.00	H
ATOM	2149	CB	ALA	140	47.158	61.147	49.436	1.00	0.00	C
ATOM	2150	HB1	ALA	140	47.345	60.905	48.389	1.00	0.00	H
ATOM	2151	HB2	ALA	140	47.512	62.160	49.628	1.00	0.00	H
ATOM	2152	HB3	ALA	140	46.085	61.106	49.626	1.00	0.00	H
ATOM	2153	C	ALA	140	47.662	60.481	51.840	1.00	0.00	C
ATOM	2154	O	ALA	140	48.293	61.402	52.366	1.00	0.00	O
ATOM	2155	N	THR	141	46.836	59.712	52.561	1.00	0.00	N
ATOM	2156	H	THR	141	46.343	58.965	52.080	1.00	0.00	H
ATOM	2157	CA	THR	141	46.618	59.867	54.020	1.00	0.00	C
ATOM	2158	HA	THR	141	46.147	60.828	54.217	1.00	0.00	H
ATOM	2159	CB	THR	141	45.697	58.767	54.556	1.00	0.00	C
ATOM	2160	HB	THR	141	45.613	58.892	55.629	1.00	0.00	H
ATOM	2161	CG2	THR	141	44.281	58.771	53.985	1.00	0.00	C
ATOM	2162	HG21	THR	141	44.295	58.781	52.896	1.00	0.00	H
ATOM	2163	HG22	THR	141	43.751	59.653	54.341	1.00	0.00	H
ATOM	2164	HG23	THR	141	43.747	57.885	54.328	1.00	0.00	H
ATOM	2165	OG1	THR	141	46.290	57.512	54.347	1.00	0.00	O
ATOM	2166	HG1	THR	141	46.031	57.203	53.453	1.00	0.00	H
ATOM	2167	C	THR	141	47.915	59.826	54.842	1.00	0.00	C
ATOM	2168	O	THR	141	48.014	60.483	55.877	1.00	0.00	O
ATOM	2169	N	ARG	142	48.937	59.106	54.355	1.00	0.00	N
ATOM	2170	H	ARG	142	48.753	58.591	53.502	1.00	0.00	H
ATOM	2171	CA	ARG	142	50.286	59.013	54.946	1.00	0.00	C
ATOM	2172	HA	ARG	142	50.207	58.725	55.995	1.00	0.00	H
ATOM	2173	CB	ARG	142	51.081	57.931	54.178	1.00	0.00	C
ATOM	2174	HB2	ARG	142	51.081	58.193	53.118	1.00	0.00	H
ATOM	2175	HB3	ARG	142	52.118	57.929	54.523	1.00	0.00	H
ATOM	2176	CG	ARG	142	50.506	56.508	54.356	1.00	0.00	C
ATOM	2177	HG2	ARG	142	50.900	56.072	55.275	1.00	0.00	H
ATOM	2178	HG3	ARG	142	49.427	56.573	54.470	1.00	0.00	H
ATOM	2179	CD	ARG	142	50.834	55.578	53.166	1.00	0.00	C
ATOM	2180	HD2	ARG	142	50.626	56.098	52.231	1.00	0.00	H
ATOM	2181	HD3	ARG	142	51.900	55.345	53.186	1.00	0.00	H
ATOM	2182	NE	ARG	142	50.067	54.312	53.180	1.00	0.00	N

ATOM	2183	HE	ARG	142	50.574	53.428	53.058	1.00	0.00	H
ATOM	2184	CZ	ARG	142	48.753	54.173	53.116	1.00	0.00	C
ATOM	2185	NH1	ARG	142	47.941	55.165	52.937	1.00	0.00	N
ATOM	2186	HH11	ARG	142	48.274	56.077	52.695	1.00	0.00	H
ATOM	2187	HH12	ARG	142	46.947	54.927	52.892	1.00	0.00	H
ATOM	2188	NH2	ARG	142	48.181	53.025	53.240	1.00	0.00	N
ATOM	2189	HH21	ARG	142	48.745	52.199	53.448	1.00	0.00	H
ATOM	2190	HH22	ARG	142	47.169	52.983	53.130	1.00	0.00	H
ATOM	2191	C	ARG	142	51.025	60.362	54.925	1.00	0.00	C
ATOM	2192	O	ARG	142	51.756	60.674	55.861	1.00	0.00	O
ATOM	2193	N	ILE	143	50.815	61.165	53.878	1.00	0.00	N
ATOM	2194	H	ILE	143	50.132	60.864	53.196	1.00	0.00	H
ATOM	2195	CA	ILE	143	51.453	62.478	53.672	1.00	0.00	C
ATOM	2196	HA	ILE	143	52.462	62.456	54.087	1.00	0.00	H
ATOM	2197	CB	ILE	143	51.561	62.787	52.154	1.00	0.00	C
ATOM	2198	HB	ILE	143	50.562	62.721	51.721	1.00	0.00	H
ATOM	2199	CG2	ILE	143	52.086	64.214	51.899	1.00	0.00	C
ATOM	2200	HG21	ILE	143	51.404	64.957	52.316	1.00	0.00	H
ATOM	2201	HG22	ILE	143	52.153	64.416	50.832	1.00	0.00	H
ATOM	2202	HG23	ILE	143	53.071	64.340	52.351	1.00	0.00	H
ATOM	2203	CG1	ILE	143	52.464	61.746	51.446	1.00	0.00	C
ATOM	2204	HG12	ILE	143	53.496	61.874	51.777	1.00	0.00	H
ATOM	2205	HG13	ILE	143	52.149	60.741	51.724	1.00	0.00	H
ATOM	2206	CD1	ILE	143	52.417	61.813	49.913	1.00	0.00	C
ATOM	2207	HD11	ILE	143	51.384	61.758	49.568	1.00	0.00	H
ATOM	2208	HD12	ILE	143	52.973	60.971	49.500	1.00	0.00	H
ATOM	2209	HD13	ILE	143	52.876	62.734	49.553	1.00	0.00	H
ATOM	2210	C	ILE	143	50.688	63.583	54.412	1.00	0.00	C
ATOM	2211	O	ILE	143	51.287	64.413	55.089	1.00	0.00	O
ATOM	2212	N	PHE	144	49.356	63.591	54.301	1.00	0.00	N
ATOM	2213	H	PHE	144	48.926	62.889	53.711	1.00	0.00	H
ATOM	2214	CA	PHE	144	48.500	64.653	54.852	1.00	0.00	C
ATOM	2215	HA	PHE	144	49.111	65.552	54.952	1.00	0.00	H
ATOM	2216	CB	PHE	144	47.404	64.989	53.832	1.00	0.00	C
ATOM	2217	HB2	PHE	144	46.820	64.094	53.625	1.00	0.00	H
ATOM	2218	HB3	PHE	144	46.733	65.739	54.248	1.00	0.00	H
ATOM	2219	CG	PHE	144	47.980	65.533	52.536	1.00	0.00	C
ATOM	2220	CD1	PHE	144	48.429	66.866	52.474	1.00	0.00	C
ATOM	2221	HD1	PHE	144	48.311	67.521	53.326	1.00	0.00	H
ATOM	2222	CE1	PHE	144	49.051	67.349	51.309	1.00	0.00	C
ATOM	2223	HE1	PHE	144	49.396	68.373	51.264	1.00	0.00	H
ATOM	2224	CZ	PHE	144	49.232	66.499	50.205	1.00	0.00	C
ATOM	2225	HZ	PHE	144	49.717	66.873	49.313	1.00	0.00	H
ATOM	2226	CE2	PHE	144	48.774	65.171	50.258	1.00	0.00	C
ATOM	2227	HE2	PHE	144	48.908	64.519	49.407	1.00	0.00	H
ATOM	2228	CD2	PHE	144	48.141	64.693	51.419	1.00	0.00	C
ATOM	2229	HD2	PHE	144	47.792	63.674	51.457	1.00	0.00	H
ATOM	2230	C	PHE	144	47.990	64.372	56.279	1.00	0.00	C
ATOM	2231	O	PHE	144	47.099	65.065	56.765	1.00	0.00	O
ATOM	2232	N	ASN	145	48.572	63.379	56.958	1.00	0.00	N
ATOM	2233	H	ASN	145	49.282	62.865	56.455	1.00	0.00	H
ATOM	2234	CA	ASN	145	48.371	62.968	58.355	1.00	0.00	C

ATOM	2235	HA	ASN	145	48.979	62.071	58.485	1.00	0.00	H
ATOM	2236	CB	ASN	145	48.962	64.026	59.307	1.00	0.00	C
ATOM	2237	HB2	ASN	145	48.479	64.986	59.126	1.00	0.00	H
ATOM	2238	HB3	ASN	145	48.751	63.740	60.337	1.00	0.00	H
ATOM	2239	CG	ASN	145	50.472	64.183	59.192	1.00	0.00	C
ATOM	2240	OD1	ASN	145	51.209	63.223	59.007	1.00	0.00	O
ATOM	2241	ND2	ASN	145	50.965	65.390	59.333	1.00	0.00	N
ATOM	2242	HD21	ASN	145	50.360	66.191	59.443	1.00	0.00	H
ATOM	2243	HD22	ASN	145	51.975	65.507	59.374	1.00	0.00	H
ATOM	2244	C	ASN	145	46.956	62.518	58.784	1.00	0.00	C
ATOM	2245	O	ASN	145	46.870	61.682	59.686	1.00	0.00	O
ATOM	2246	N	SER	146	45.863	62.973	58.158	1.00	0.00	N
ATOM	2247	H	SER	146	45.990	63.694	57.459	1.00	0.00	H
ATOM	2248	CA	SER	146	44.501	62.491	58.459	1.00	0.00	C
ATOM	2249	HA	SER	146	44.313	62.657	59.521	1.00	0.00	H
ATOM	2250	CB	SER	146	43.432	63.261	57.678	1.00	0.00	C
ATOM	2251	HB2	SER	146	43.489	64.326	57.909	1.00	0.00	H
ATOM	2252	HB3	SER	146	43.589	63.109	56.610	1.00	0.00	H
ATOM	2253	OG	SER	146	42.163	62.754	58.050	1.00	0.00	O
ATOM	2254	HG	SER	146	41.552	62.797	57.288	1.00	0.00	H
ATOM	2255	C	SER	146	44.340	60.994	58.173	1.00	0.00	C
ATOM	2256	O	SER	146	44.927	60.465	57.228	1.00	0.00	O
ATOM	2257	N	LYS	147	43.529	60.295	58.976	1.00	0.00	N
ATOM	2258	H	LYS	147	43.053	60.806	59.707	1.00	0.00	H
ATOM	2259	CA	LYS	147	43.227	58.861	58.796	1.00	0.00	C
ATOM	2260	HA	LYS	147	44.076	58.393	58.301	1.00	0.00	H
ATOM	2261	CB	LYS	147	43.069	58.171	60.165	1.00	0.00	C
ATOM	2262	HB2	LYS	147	42.264	58.636	60.736	1.00	0.00	H
ATOM	2263	HB3	LYS	147	42.835	57.116	60.012	1.00	0.00	H
ATOM	2264	CG	LYS	147	44.397	58.286	60.928	1.00	0.00	C
ATOM	2265	HG2	LYS	147	45.191	57.937	60.270	1.00	0.00	H
ATOM	2266	HG3	LYS	147	44.583	59.335	61.166	1.00	0.00	H
ATOM	2267	CD	LYS	147	44.489	57.477	62.221	1.00	0.00	C
ATOM	2268	HD2	LYS	147	43.708	57.777	62.922	1.00	0.00	H
ATOM	2269	HD3	LYS	147	44.403	56.412	61.994	1.00	0.00	H
ATOM	2270	CE	LYS	147	45.875	57.794	62.790	1.00	0.00	C
ATOM	2271	HE2	LYS	147	46.607	57.685	61.986	1.00	0.00	H
ATOM	2272	HE3	LYS	147	45.911	58.836	63.121	1.00	0.00	H
ATOM	2273	NZ	LYS	147	46.280	56.898	63.888	1.00	0.00	N
ATOM	2274	HZ1	LYS	147	46.227	55.920	63.587	1.00	0.00	H
ATOM	2275	HZ2	LYS	147	45.726	57.009	64.719	1.00	0.00	H
ATOM	2276	HZ3	LYS	147	47.268	57.052	64.086	1.00	0.00	H
ATOM	2277	C	LYS	147	42.058	58.591	57.845	1.00	0.00	C
ATOM	2278	O	LYS	147	41.933	57.469	57.364	1.00	0.00	O
ATOM	2279	N	VAL	148	41.270	59.618	57.517	1.00	0.00	N
ATOM	2280	H	VAL	148	41.475	60.516	57.932	1.00	0.00	H
ATOM	2281	CA	VAL	148	40.226	59.590	56.479	1.00	0.00	C
ATOM	2282	HA	VAL	148	40.360	58.700	55.867	1.00	0.00	H
ATOM	2283	CB	VAL	148	38.803	59.536	57.080	1.00	0.00	C
ATOM	2284	HB	VAL	148	38.603	60.479	57.592	1.00	0.00	H
ATOM	2285	CG1	VAL	148	37.743	59.354	55.983	1.00	0.00	C
ATOM	2286	HG11	VAL	148	37.928	58.433	55.429	1.00	0.00	H

ATOM	2287	HG12 VAL	148	36.751	59.305	56.433	1.00	0.00	H
ATOM	2288	HG13 VAL	148	37.758	60.198	55.296	1.00	0.00	H
ATOM	2289	CG2 VAL	148	38.625	58.405	58.104	1.00	0.00	C
ATOM	2290	HG21 VAL	148	38.871	57.444	57.657	1.00	0.00	H
ATOM	2291	HG22 VAL	148	37.592	58.380	58.454	1.00	0.00	H
ATOM	2292	HG23 VAL	148	39.268	58.573	58.967	1.00	0.00	H
ATOM	2293	C VAL	148	40.388	60.820	55.584	1.00	0.00	C
ATOM	2294	O VAL	148	40.493	61.937	56.096	1.00	0.00	O
ATOM	2295	N LEU	149	40.407	60.634	54.262	1.00	0.00	N
ATOM	2296	H LEU	149	40.383	59.684	53.904	1.00	0.00	H
ATOM	2297	CA LEU	149	40.404	61.730	53.283	1.00	0.00	C
ATOM	2298	HA LEU	149	40.096	62.647	53.785	1.00	0.00	H
ATOM	2299	CB LEU	149	41.811	61.947	52.696	1.00	0.00	C
ATOM	2300	HB2 LEU	149	42.180	60.987	52.330	1.00	0.00	H
ATOM	2301	HB3 LEU	149	41.734	62.618	51.840	1.00	0.00	H
ATOM	2302	CG LEU	149	42.833	62.541	53.685	1.00	0.00	C
ATOM	2303	HG LEU	149	42.864	61.933	54.588	1.00	0.00	H
ATOM	2304	CD1 LEU	149	44.230	62.530	53.068	1.00	0.00	C
ATOM	2305	HD11 LEU	149	44.456	61.537	52.678	1.00	0.00	H
ATOM	2306	HD12 LEU	149	44.958	62.787	53.835	1.00	0.00	H
ATOM	2307	HD13 LEU	149	44.293	63.252	52.256	1.00	0.00	H
ATOM	2308	CD2 LEU	149	42.511	63.991	54.064	1.00	0.00	C
ATOM	2309	HD21 LEU	149	42.392	64.597	53.166	1.00	0.00	H
ATOM	2310	HD22 LEU	149	41.587	64.030	54.641	1.00	0.00	H
ATOM	2311	HD23 LEU	149	43.313	64.407	54.671	1.00	0.00	H
ATOM	2312	C LEU	149	39.372	61.476	52.182	1.00	0.00	C
ATOM	2313	O LEU	149	39.257	60.363	51.666	1.00	0.00	O
ATOM	2314	N ILE	150	38.622	62.517	51.815	1.00	0.00	N
ATOM	2315	H ILE	150	38.761	63.403	52.294	1.00	0.00	H
ATOM	2316	CA ILE	150	37.519	62.417	50.850	1.00	0.00	C
ATOM	2317	HA ILE	150	37.606	61.457	50.341	1.00	0.00	H
ATOM	2318	CB ILE	150	36.138	62.400	51.554	1.00	0.00	C
ATOM	2319	HB ILE	150	35.424	62.045	50.811	1.00	0.00	H
ATOM	2320	CG2 ILE	150	36.122	61.388	52.717	1.00	0.00	C
ATOM	2321	HG21 ILE	150	36.618	60.465	52.422	1.00	0.00	H
ATOM	2322	HG22 ILE	150	35.097	61.150	52.998	1.00	0.00	H
ATOM	2323	HG23 ILE	150	36.639	61.801	53.585	1.00	0.00	H
ATOM	2324	CG1 ILE	150	35.656	63.790	52.032	1.00	0.00	C
ATOM	2325	HG12 ILE	150	36.304	64.139	52.838	1.00	0.00	H
ATOM	2326	HG13 ILE	150	35.716	64.504	51.213	1.00	0.00	H
ATOM	2327	CD1 ILE	150	34.202	63.802	52.519	1.00	0.00	C
ATOM	2328	HD11 ILE	150	33.530	63.563	51.695	1.00	0.00	H
ATOM	2329	HD12 ILE	150	33.957	64.792	52.902	1.00	0.00	H
ATOM	2330	HD13 ILE	150	34.058	63.082	53.319	1.00	0.00	H
ATOM	2331	C ILE	150	37.638	63.483	49.758	1.00	0.00	C
ATOM	2332	O ILE	150	38.004	64.632	50.020	1.00	0.00	O
ATOM	2333	N HIE	151	37.343	63.096	48.516	1.00	0.00	N
ATOM	2334	H HIE	151	37.086	62.126	48.368	1.00	0.00	H
ATOM	2335	CA HIE	151	37.336	64.004	47.363	1.00	0.00	C
ATOM	2336	HA HIE	151	38.239	64.616	47.393	1.00	0.00	H
ATOM	2337	CB HIE	151	37.377	63.157	46.084	1.00	0.00	C
ATOM	2338	HB2 HIE	151	38.309	62.589	46.068	1.00	0.00	H



ATOM	2339	HB3 HIE	151	36.549	62.447	46.105	1.00	0.00	H
ATOM	2340	CG HIE	151	37.276	63.959	44.813	1.00	0.00	C
ATOM	2341	ND1 HIE	151	36.122	64.095	44.043	1.00	0.00	N
ATOM	2342	CE1 HIE	151	36.429	64.949	43.054	1.00	0.00	C
ATOM	2343	HE1 HIE	151	35.748	65.253	42.266	1.00	0.00	H
ATOM	2344	NE2 HIE	151	37.695	65.379	43.191	1.00	0.00	N
ATOM	2345	HE2 HIE	151	38.153	66.037	42.573	1.00	0.00	H
ATOM	2346	CD2 HIE	151	38.244	64.771	44.301	1.00	0.00	C
ATOM	2347	HD2 HIE	151	39.231	64.926	44.719	1.00	0.00	H
ATOM	2348	C HIE	151	36.143	64.976	47.383	1.00	0.00	C
ATOM	2349	O HIE	151	35.111	64.698	47.991	1.00	0.00	O
ATOM	2350	N SER	152	36.261	66.102	46.670	1.00	0.00	N
ATOM	2351	H SER	152	37.155	66.282	46.231	1.00	0.00	H
ATOM	2352	CA SER	152	35.228	67.150	46.578	1.00	0.00	C
ATOM	2353	HA SER	152	35.128	67.603	47.564	1.00	0.00	H
ATOM	2354	CB SER	152	35.694	68.227	45.588	1.00	0.00	C
ATOM	2355	HB2 SER	152	36.781	68.208	45.536	1.00	0.00	H
ATOM	2356	HB3 SER	152	35.306	68.016	44.590	1.00	0.00	H
ATOM	2357	OG SER	152	35.292	69.522	46.001	1.00	0.00	O
ATOM	2358	HG SER	152	34.391	69.683	45.629	1.00	0.00	H
ATOM	2359	C SER	152	33.832	66.640	46.192	1.00	0.00	C
ATOM	2360	O SER	152	32.844	67.129	46.734	1.00	0.00	O
ATOM	2361	N HID	153	33.723	65.604	45.349	1.00	0.00	N
ATOM	2362	H HID	153	34.567	65.203	44.955	1.00	0.00	H
ATOM	2363	CA HID	153	32.444	64.939	45.055	1.00	0.00	C
ATOM	2364	HA HID	153	31.754	65.651	44.600	1.00	0.00	H
ATOM	2365	CB HID	153	32.690	63.777	44.080	1.00	0.00	C
ATOM	2366	HB2 HID	153	33.496	63.148	44.462	1.00	0.00	H
ATOM	2367	HB3 HID	153	31.793	63.161	44.048	1.00	0.00	H
ATOM	2368	CG HID	153	33.011	64.171	42.660	1.00	0.00	C
ATOM	2369	ND1 HID	153	33.359	63.296	41.656	1.00	0.00	N
ATOM	2370	HD1 HID	153	33.525	62.296	41.761	1.00	0.00	H
ATOM	2371	CE1 HID	153	33.416	63.977	40.502	1.00	0.00	C
ATOM	2372	HE1 HID	153	33.655	63.549	39.536	1.00	0.00	H
ATOM	2373	NE2 HID	153	33.109	65.266	40.712	1.00	0.00	N
ATOM	2374	CD2 HID	153	32.860	65.404	42.080	1.00	0.00	C
ATOM	2375	HD2 HID	153	32.538	66.312	42.572	1.00	0.00	H
ATOM	2376	C HID	153	31.754	64.396	46.315	1.00	0.00	C
ATOM	2377	O HID	153	30.554	64.587	46.502	1.00	0.00	O
ATOM	2378	N CYS	154	32.514	63.762	47.208	1.00	0.00	N
ATOM	2379	H CYS	154	33.511	63.711	47.050	1.00	0.00	H
ATOM	2380	CA CYS	154	32.009	63.179	48.451	1.00	0.00	C
ATOM	2381	HA CYS	154	31.146	62.557	48.217	1.00	0.00	H
ATOM	2382	CB CYS	154	33.106	62.289	49.047	1.00	0.00	C
ATOM	2383	HB2 CYS	154	33.945	62.918	49.347	1.00	0.00	H
ATOM	2384	HB3 CYS	154	32.719	61.771	49.928	1.00	0.00	H
ATOM	2385	SG CYS	154	33.668	61.079	47.814	1.00	0.00	S
ATOM	2386	HG CYS	154	34.795	60.701	48.440	1.00	0.00	H
ATOM	2387	C CYS	154	31.550	64.241	49.467	1.00	0.00	C
ATOM	2388	O CYS	154	30.771	63.929	50.363	1.00	0.00	O
ATOM	2389	N VAL	155	32.004	65.491	49.328	1.00	0.00	N
ATOM	2390	H VAL	155	32.679	65.668	48.595	1.00	0.00	H

ATOM	2391	CA	VAL	155	31.462	66.642	50.070	1.00	0.00	C
ATOM	2392	HA	VAL	155	31.132	66.311	51.056	1.00	0.00	H
ATOM	2393	CB	VAL	155	32.540	67.729	50.274	1.00	0.00	C
ATOM	2394	HB	VAL	155	32.943	68.023	49.304	1.00	0.00	H
ATOM	2395	CG1	VAL	155	31.992	68.987	50.962	1.00	0.00	C
ATOM	2396	HG11	VAL	155	31.249	69.474	50.333	1.00	0.00	H
ATOM	2397	HG12	VAL	155	31.538	68.722	51.918	1.00	0.00	H
ATOM	2398	HG13	VAL	155	32.803	69.696	51.137	1.00	0.00	H
ATOM	2399	CG2	VAL	155	33.691	67.199	51.132	1.00	0.00	C
ATOM	2400	HG21	VAL	155	34.181	66.363	50.634	1.00	0.00	H
ATOM	2401	HG22	VAL	155	33.314	66.879	52.104	1.00	0.00	H
ATOM	2402	HG23	VAL	155	34.425	67.987	51.282	1.00	0.00	H
ATOM	2403	C	VAL	155	30.236	67.224	49.363	1.00	0.00	C
ATOM	2404	O	VAL	155	29.194	67.422	49.977	1.00	0.00	O
ATOM	2405	N	GLN	156	30.341	67.525	48.068	1.00	0.00	N
ATOM	2406	H	GLN	156	31.214	67.319	47.595	1.00	0.00	H
ATOM	2407	CA	GLN	156	29.351	68.344	47.356	1.00	0.00	C
ATOM	2408	HA	GLN	156	29.024	69.141	48.026	1.00	0.00	H
ATOM	2409	CB	GLN	156	30.025	69.006	46.143	1.00	0.00	C
ATOM	2410	HB2	GLN	156	30.497	68.238	45.527	1.00	0.00	H
ATOM	2411	HB3	GLN	156	29.270	69.515	45.542	1.00	0.00	H
ATOM	2412	CG	GLN	156	31.077	70.041	46.585	1.00	0.00	C
ATOM	2413	HG2	GLN	156	30.576	70.874	47.079	1.00	0.00	H
ATOM	2414	HG3	GLN	156	31.771	69.596	47.297	1.00	0.00	H
ATOM	2415	CD	GLN	156	31.894	70.560	45.411	1.00	0.00	C
ATOM	2416	OE1	GLN	156	32.901	69.983	45.025	1.00	0.00	O
ATOM	2417	NE2	GLN	156	31.515	71.669	44.820	1.00	0.00	N
ATOM	2418	HE21	GLN	156	32.054	71.987	44.036	1.00	0.00	H
ATOM	2419	HE22	GLN	156	30.725	72.198	45.180	1.00	0.00	H
ATOM	2420	C	GLN	156	28.076	67.583	46.957	1.00	0.00	C
ATOM	2421	O	GLN	156	27.015	68.202	46.833	1.00	0.00	O
ATOM	2422	N	TYR	157	28.142	66.259	46.784	1.00	0.00	N
ATOM	2423	H	TYR	157	29.050	65.805	46.829	1.00	0.00	H
ATOM	2424	CA	TYR	157	26.970	65.406	46.535	1.00	0.00	C
ATOM	2425	HA	TYR	157	26.208	65.998	46.030	1.00	0.00	H
ATOM	2426	CB	TYR	157	27.356	64.263	45.578	1.00	0.00	C
ATOM	2427	HB2	TYR	157	28.018	63.582	46.115	1.00	0.00	H
ATOM	2428	HB3	TYR	157	26.454	63.705	45.324	1.00	0.00	H
ATOM	2429	CG	TYR	157	28.034	64.673	44.270	1.00	0.00	C
ATOM	2430	CD1	TYR	157	27.718	65.890	43.625	1.00	0.00	C
ATOM	2431	HD1	TYR	157	26.973	66.555	44.035	1.00	0.00	H
ATOM	2432	CE1	TYR	157	28.380	66.258	42.437	1.00	0.00	C
ATOM	2433	HE1	TYR	157	28.152	67.191	41.945	1.00	0.00	H
ATOM	2434	CZ	TYR	157	29.350	65.407	41.870	1.00	0.00	C
ATOM	2435	OH	TYR	157	30.003	65.792	40.742	1.00	0.00	O
ATOM	2436	HH	TYR	157	30.892	65.425	40.661	1.00	0.00	H
ATOM	2437	CE2	TYR	157	29.636	64.171	42.487	1.00	0.00	C
ATOM	2438	HE2	TYR	157	30.352	63.504	42.033	1.00	0.00	H
ATOM	2439	CD2	TYR	157	28.983	63.811	43.684	1.00	0.00	C
ATOM	2440	HD2	TYR	157	29.211	62.867	44.160	1.00	0.00	H
ATOM	2441	C	TYR	157	26.295	64.905	47.830	1.00	0.00	C
ATOM	2442	O	TYR	157	25.299	64.187	47.772	1.00	0.00	O

ATOM	2443	N	LEU	158	26.807	65.293	49.004	1.00	0.00	N
ATOM	2444	H	LEU	158	27.598	65.922	48.998	1.00	0.00	H
ATOM	2445	CA	LEU	158	26.242	64.954	50.309	1.00	0.00	C
ATOM	2446	HA	LEU	158	25.896	63.922	50.255	1.00	0.00	H
ATOM	2447	CB	LEU	158	27.381	65.045	51.335	1.00	0.00	C
ATOM	2448	HB2	LEU	158	28.251	64.514	50.947	1.00	0.00	H
ATOM	2449	HB3	LEU	158	27.649	66.096	51.443	1.00	0.00	H
ATOM	2450	CG	LEU	158	27.064	64.498	52.732	1.00	0.00	C
ATOM	2451	HG	LEU	158	26.195	65.007	53.141	1.00	0.00	H
ATOM	2452	CD1	LEU	158	26.815	62.989	52.724	1.00	0.00	C
ATOM	2453	HD11	LEU	158	25.931	62.750	52.140	1.00	0.00	H
ATOM	2454	HD12	LEU	158	26.672	62.648	53.748	1.00	0.00	H
ATOM	2455	HD13	LEU	158	27.679	62.481	52.296	1.00	0.00	H
ATOM	2456	CD2	LEU	158	28.244	64.780	53.644	1.00	0.00	C
ATOM	2457	HD21	LEU	158	29.144	64.307	53.252	1.00	0.00	H
ATOM	2458	HD22	LEU	158	28.404	65.857	53.685	1.00	0.00	H
ATOM	2459	HD23	LEU	158	28.036	64.414	54.648	1.00	0.00	H
ATOM	2460	C	LEU	158	25.040	65.846	50.692	1.00	0.00	C
ATOM	2461	O	LEU	158	24.957	67.017	50.313	1.00	0.00	O
ATOM	2462	N	GLY	159	24.117	65.288	51.484	1.00	0.00	N
ATOM	2463	H	GLY	159	24.239	64.319	51.722	1.00	0.00	H
ATOM	2464	CA	GLY	159	22.992	66.011	52.099	1.00	0.00	C
ATOM	2465	HA2	GLY	159	22.772	66.911	51.521	1.00	0.00	H
ATOM	2466	HA3	GLY	159	22.105	65.379	52.062	1.00	0.00	H
ATOM	2467	C	GLY	159	23.222	66.430	53.566	1.00	0.00	C
ATOM	2468	O	GLY	159	23.011	67.604	53.878	1.00	0.00	O
ATOM	2469	N	PRO	160	23.625	65.506	54.471	1.00	0.00	N
ATOM	2470	CD	PRO	160	23.541	64.061	54.289	1.00	0.00	C
ATOM	2471	HD2	PRO	160	24.482	63.686	53.895	1.00	0.00	H
ATOM	2472	HD3	PRO	160	22.718	63.781	53.631	1.00	0.00	H
ATOM	2473	CG	PRO	160	23.306	63.477	55.681	1.00	0.00	C
ATOM	2474	HG2	PRO	160	23.676	62.457	55.765	1.00	0.00	H
ATOM	2475	HG3	PRO	160	22.245	63.527	55.931	1.00	0.00	H
ATOM	2476	CB	PRO	160	24.094	64.438	56.564	1.00	0.00	C
ATOM	2477	HB2	PRO	160	25.159	64.205	56.503	1.00	0.00	H
ATOM	2478	HB3	PRO	160	23.751	64.411	57.599	1.00	0.00	H
ATOM	2479	CA	PRO	160	23.808	65.788	55.901	1.00	0.00	C
ATOM	2480	HA	PRO	160	22.848	66.146	56.275	1.00	0.00	H
ATOM	2481	C	PRO	160	24.874	66.831	56.279	1.00	0.00	C
ATOM	2482	O	PRO	160	25.875	67.034	55.593	1.00	0.00	O
ATOM	2483	N	LYS	161	24.641	67.462	57.435	1.00	0.00	N
ATOM	2484	H	LYS	161	23.850	67.131	57.965	1.00	0.00	H
ATOM	2485	CA	LYS	161	25.322	68.649	57.982	1.00	0.00	C
ATOM	2486	HA	LYS	161	25.545	69.337	57.164	1.00	0.00	H
ATOM	2487	CB	LYS	161	24.342	69.347	58.961	1.00	0.00	C
ATOM	2488	HB2	LYS	161	24.127	68.656	59.779	1.00	0.00	H
ATOM	2489	HB3	LYS	161	24.830	70.226	59.388	1.00	0.00	H
ATOM	2490	CG	LYS	161	23.008	69.799	58.327	1.00	0.00	C
ATOM	2491	HG2	LYS	161	23.196	70.652	57.673	1.00	0.00	H
ATOM	2492	HG3	LYS	161	22.587	68.992	57.726	1.00	0.00	H
ATOM	2493	CD	LYS	161	21.963	70.183	59.391	1.00	0.00	C
ATOM	2494	HD2	LYS	161	21.777	69.320	60.033	1.00	0.00	H

ATOM	2495	HD3 LYS	161	22.344	71.004	60.001	1.00	0.00	H
ATOM	2496	CE LYS	161	20.649	70.607	58.717	1.00	0.00	C
ATOM	2497	HE2 LYS	161	20.814	71.551	58.188	1.00	0.00	H
ATOM	2498	HE3 LYS	161	20.375	69.861	57.965	1.00	0.00	H
ATOM	2499	NZ LYS	161	19.532	70.762	59.682	1.00	0.00	N
ATOM	2500	HZ1 LYS	161	19.736	71.395	60.448	1.00	0.00	H
ATOM	2501	HZ2 LYS	161	19.226	69.887	60.106	1.00	0.00	H
ATOM	2502	HZ3 LYS	161	18.704	71.150	59.238	1.00	0.00	H
ATOM	2503	C LYS	161	26.675	68.318	58.650	1.00	0.00	C
ATOM	2504	O LYS	161	26.861	68.588	59.836	1.00	0.00	O
ATOM	2505	N ILE	162	27.591	67.655	57.940	1.00	0.00	N
ATOM	2506	H ILE	162	27.367	67.427	56.980	1.00	0.00	H
ATOM	2507	CA ILE	162	28.894	67.232	58.498	1.00	0.00	C
ATOM	2508	HA ILE	162	28.701	66.819	59.489	1.00	0.00	H
ATOM	2509	CB ILE	162	29.537	66.100	57.668	1.00	0.00	C
ATOM	2510	HB ILE	162	30.452	65.807	58.186	1.00	0.00	H
ATOM	2511	CG2 ILE	162	28.611	64.870	57.651	1.00	0.00	C
ATOM	2512	HG21 ILE	162	28.310	64.620	58.670	1.00	0.00	H
ATOM	2513	HG22 ILE	162	29.132	64.009	57.234	1.00	0.00	H
ATOM	2514	HG23 ILE	162	27.719	65.071	57.058	1.00	0.00	H
ATOM	2515	CG1 ILE	162	29.930	66.559	56.247	1.00	0.00	C
ATOM	2516	HG12 ILE	162	29.028	66.716	55.657	1.00	0.00	H
ATOM	2517	HG13 ILE	162	30.460	67.508	56.294	1.00	0.00	H
ATOM	2518	CD1 ILE	162	30.858	65.573	55.531	1.00	0.00	C
ATOM	2519	HD11 ILE	162	31.781	65.475	56.097	1.00	0.00	H
ATOM	2520	HD12 ILE	162	31.091	65.949	54.535	1.00	0.00	H
ATOM	2521	HD13 ILE	162	30.391	64.595	55.441	1.00	0.00	H
ATOM	2522	C ILE	162	29.870	68.406	58.704	1.00	0.00	C
ATOM	2523	O ILE	162	29.867	69.376	57.949	1.00	0.00	O
ATOM	2524	N LYS	163	30.761	68.286	59.697	1.00	0.00	N
ATOM	2525	H LYS	163	30.701	67.449	60.260	1.00	0.00	H
ATOM	2526	CA LYS	163	31.715	69.328	60.148	1.00	0.00	C
ATOM	2527	HA LYS	163	31.183	70.283	60.165	1.00	0.00	H
ATOM	2528	CB LYS	163	32.161	69.011	61.594	1.00	0.00	C
ATOM	2529	HB2 LYS	163	32.728	68.078	61.601	1.00	0.00	H
ATOM	2530	HB3 LYS	163	32.817	69.810	61.944	1.00	0.00	H
ATOM	2531	CG LYS	163	30.985	68.900	62.580	1.00	0.00	C
ATOM	2532	HG2 LYS	163	30.392	69.814	62.526	1.00	0.00	H
ATOM	2533	HG3 LYS	163	30.352	68.054	62.307	1.00	0.00	H
ATOM	2534	CD LYS	163	31.472	68.703	64.023	1.00	0.00	C
ATOM	2535	HD2 LYS	163	32.047	67.777	64.096	1.00	0.00	H
ATOM	2536	HD3 LYS	163	32.103	69.547	64.307	1.00	0.00	H
ATOM	2537	CE LYS	163	30.253	68.637	64.948	1.00	0.00	C
ATOM	2538	HE2 LYS	163	29.640	69.525	64.765	1.00	0.00	H
ATOM	2539	HE3 LYS	163	29.651	67.760	64.690	1.00	0.00	H
ATOM	2540	NZ LYS	163	30.631	68.591	66.379	1.00	0.00	N
ATOM	2541	HZ1 LYS	163	31.064	67.714	66.654	1.00	0.00	H
ATOM	2542	HZ2 LYS	163	29.798	68.688	66.952	1.00	0.00	H
ATOM	2543	HZ3 LYS	163	31.251	69.354	66.640	1.00	0.00	H
ATOM	2544	C LYS	163	32.934	69.565	59.226	1.00	0.00	C
ATOM	2545	O LYS	163	33.953	70.085	59.684	1.00	0.00	O
ATOM	2546	N ALA	164	32.854	69.158	57.957	1.00	0.00	N

ATOM	2547	H	ALA	164	31.939	68.903	57.621	1.00	0.00	H
ATOM	2548	CA	ALA	164	34.003	68.927	57.073	1.00	0.00	C
ATOM	2549	HA	ALA	164	34.578	68.111	57.513	1.00	0.00	H
ATOM	2550	CB	ALA	164	33.491	68.451	55.709	1.00	0.00	C
ATOM	2551	HB1	ALA	164	32.900	67.547	55.832	1.00	0.00	H
ATOM	2552	HB2	ALA	164	34.337	68.224	55.058	1.00	0.00	H
ATOM	2553	HB3	ALA	164	32.880	69.228	55.246	1.00	0.00	H
ATOM	2554	C	ALA	164	34.965	70.123	56.915	1.00	0.00	C
ATOM	2555	O	ALA	164	34.551	71.286	56.885	1.00	0.00	O
ATOM	2556	N	ARG	165	36.258	69.821	56.752	1.00	0.00	N
ATOM	2557	H	ARG	165	36.497	68.830	56.739	1.00	0.00	H
ATOM	2558	CA	ARG	165	37.370	70.785	56.688	1.00	0.00	C
ATOM	2559	HA	ARG	165	36.966	71.795	56.610	1.00	0.00	H
ATOM	2560	CB	ARG	165	38.148	70.687	58.019	1.00	0.00	C
ATOM	2561	HB2	ARG	165	37.465	70.938	58.833	1.00	0.00	H
ATOM	2562	HB3	ARG	165	38.475	69.655	58.164	1.00	0.00	H
ATOM	2563	CG	ARG	165	39.377	71.603	58.115	1.00	0.00	C
ATOM	2564	HG2	ARG	165	40.105	71.287	57.367	1.00	0.00	H
ATOM	2565	HG3	ARG	165	39.086	72.634	57.910	1.00	0.00	H
ATOM	2566	CD	ARG	165	40.015	71.527	59.516	1.00	0.00	C
ATOM	2567	HD2	ARG	165	39.358	72.027	60.230	1.00	0.00	H
ATOM	2568	HD3	ARG	165	40.097	70.482	59.822	1.00	0.00	H
ATOM	2569	NE	ARG	165	41.352	72.159	59.547	1.00	0.00	N
ATOM	2570	HE	ARG	165	41.428	73.088	59.941	1.00	0.00	H
ATOM	2571	CZ	ARG	165	42.446	71.643	59.010	1.00	0.00	C
ATOM	2572	NH1	ARG	165	42.504	70.421	58.570	1.00	0.00	N
ATOM	2573	HH11	ARG	165	41.769	69.744	58.814	1.00	0.00	H
ATOM	2574	HH12	ARG	165	43.317	70.072	58.102	1.00	0.00	H
ATOM	2575	NH2	ARG	165	43.526	72.358	58.892	1.00	0.00	N
ATOM	2576	HH21	ARG	165	43.589	73.279	59.302	1.00	0.00	H
ATOM	2577	HH22	ARG	165	44.317	72.011	58.365	1.00	0.00	H
ATOM	2578	C	ARG	165	38.232	70.525	55.447	1.00	0.00	C
ATOM	2579	O	ARG	165	38.640	69.396	55.196	1.00	0.00	O
ATOM	2580	N	PHE	166	38.501	71.554	54.644	1.00	0.00	N
ATOM	2581	H	PHE	166	38.139	72.463	54.882	1.00	0.00	H
ATOM	2582	CA	PHE	166	39.387	71.445	53.476	1.00	0.00	C
ATOM	2583	HA	PHE	166	39.088	70.578	52.884	1.00	0.00	H
ATOM	2584	CB	PHE	166	39.215	72.691	52.600	1.00	0.00	C
ATOM	2585	HB2	PHE	166	38.200	72.699	52.201	1.00	0.00	H
ATOM	2586	HB3	PHE	166	39.328	73.577	53.226	1.00	0.00	H
ATOM	2587	CG	PHE	166	40.189	72.796	51.442	1.00	0.00	C
ATOM	2588	CD1	PHE	166	39.956	72.087	50.249	1.00	0.00	C
ATOM	2589	HD1	PHE	166	39.090	71.446	50.159	1.00	0.00	H
ATOM	2590	CE1	PHE	166	40.846	72.220	49.168	1.00	0.00	C
ATOM	2591	HE1	PHE	166	40.669	71.685	48.247	1.00	0.00	H
ATOM	2592	CZ	PHE	166	41.974	73.051	49.281	1.00	0.00	C
ATOM	2593	HZ	PHE	166	42.653	73.156	48.448	1.00	0.00	H
ATOM	2594	CE2	PHE	166	42.227	73.731	50.484	1.00	0.00	C
ATOM	2595	HE2	PHE	166	43.107	74.349	50.585	1.00	0.00	H
ATOM	2596	CD2	PHE	166	41.333	73.608	51.561	1.00	0.00	C
ATOM	2597	HD2	PHE	166	41.528	74.144	52.480	1.00	0.00	H
ATOM	2598	C	PHE	166	40.852	71.236	53.894	1.00	0.00	C

ATOM	2599	O	PHE	166	41.324	71.885	54.829	1.00	0.00	O
ATOM	2600	N	MET	167	41.566	70.351	53.187	1.00	0.00	N
ATOM	2601	H	MET	167	41.100	69.865	52.427	1.00	0.00	H
ATOM	2602	CA	MET	167	42.954	69.962	53.486	1.00	0.00	C
ATOM	2603	HA	MET	167	43.305	70.534	54.345	1.00	0.00	H
ATOM	2604	CB	MET	167	42.997	68.467	53.852	1.00	0.00	C
ATOM	2605	HB2	MET	167	42.215	67.929	53.314	1.00	0.00	H
ATOM	2606	HB3	MET	167	43.953	68.037	53.553	1.00	0.00	H
ATOM	2607	CG	MET	167	42.817	68.250	55.358	1.00	0.00	C
ATOM	2608	HG2	MET	167	41.897	68.743	55.675	1.00	0.00	H
ATOM	2609	HG3	MET	167	42.703	67.181	55.537	1.00	0.00	H
ATOM	2610	SD	MET	167	44.187	68.850	56.398	1.00	0.00	S
ATOM	2611	CE	MET	167	45.516	67.724	55.905	1.00	0.00	C
ATOM	2612	HE1	MET	167	45.807	67.923	54.873	1.00	0.00	H
ATOM	2613	HE2	MET	167	46.379	67.874	56.553	1.00	0.00	H
ATOM	2614	HE3	MET	167	45.174	66.693	55.999	1.00	0.00	H
ATOM	2615	C	MET	167	43.963	70.266	52.369	1.00	0.00	C
ATOM	2616	O	MET	167	45.153	70.395	52.667	1.00	0.00	O
ATOM	2617	N	GLY	168	43.541	70.397	51.107	1.00	0.00	N
ATOM	2618	H	GLY	168	42.563	70.261	50.886	1.00	0.00	H
ATOM	2619	CA	GLY	168	44.446	70.822	50.033	1.00	0.00	C
ATOM	2620	HA2	GLY	168	44.608	71.895	50.126	1.00	0.00	H
ATOM	2621	HA3	GLY	168	45.412	70.331	50.159	1.00	0.00	H
ATOM	2622	C	GLY	168	43.985	70.534	48.605	1.00	0.00	C
ATOM	2623	O	GLY	168	42.958	69.892	48.374	1.00	0.00	O
ATOM	2624	N	GLN	169	44.785	71.011	47.648	1.00	0.00	N
ATOM	2625	H	GLN	169	45.611	71.523	47.953	1.00	0.00	H
ATOM	2626	CA	GLN	169	44.764	70.592	46.244	1.00	0.00	C
ATOM	2627	HA	GLN	169	43.858	70.023	46.051	1.00	0.00	H
ATOM	2628	CB	GLN	169	44.791	71.811	45.306	1.00	0.00	C
ATOM	2629	HB2	GLN	169	45.481	72.568	45.685	1.00	0.00	H
ATOM	2630	HB3	GLN	169	45.141	71.489	44.325	1.00	0.00	H
ATOM	2631	CG	GLN	169	43.390	72.404	45.138	1.00	0.00	C
ATOM	2632	HG2	GLN	169	42.718	71.591	44.863	1.00	0.00	H
ATOM	2633	HG3	GLN	169	43.051	72.825	46.084	1.00	0.00	H
ATOM	2634	CD	GLN	169	43.286	73.474	44.053	1.00	0.00	C
ATOM	2635	OE1	GLN	169	44.254	74.014	43.538	1.00	0.00	O
ATOM	2636	NE2	GLN	169	42.083	73.817	43.657	1.00	0.00	N
ATOM	2637	HE21	GLN	169	42.013	74.488	42.915	1.00	0.00	H
ATOM	2638	HE22	GLN	169	41.286	73.336	44.068	1.00	0.00	H
ATOM	2639	C	GLN	169	45.959	69.682	45.949	1.00	0.00	C
ATOM	2640	O	GLN	169	47.090	70.028	46.284	1.00	0.00	O
ATOM	2641	N	ILE	170	45.722	68.541	45.294	1.00	0.00	N
ATOM	2642	H	ILE	170	44.764	68.310	45.055	1.00	0.00	H
ATOM	2643	CA	ILE	170	46.780	67.577	44.942	1.00	0.00	C
ATOM	2644	HA	ILE	170	47.737	68.099	44.991	1.00	0.00	H
ATOM	2645	CB	ILE	170	46.863	66.418	45.964	1.00	0.00	C
ATOM	2646	HB	ILE	170	47.739	65.827	45.690	1.00	0.00	H
ATOM	2647	CG2	ILE	170	47.110	66.948	47.387	1.00	0.00	C
ATOM	2648	HG21	ILE	170	47.939	67.658	47.383	1.00	0.00	H
ATOM	2649	HG22	ILE	170	47.364	66.131	48.057	1.00	0.00	H
ATOM	2650	HG23	ILE	170	46.220	67.449	47.770	1.00	0.00	H

ATOM	2651	CG1	ILE	170	45.640	65.477	45.921	1.00	0.00	C
ATOM	2652	HG12	ILE	170	44.770	65.981	46.344	1.00	0.00	H
ATOM	2653	HG13	ILE	170	45.412	65.216	44.888	1.00	0.00	H
ATOM	2654	CD1	ILE	170	45.887	64.166	46.678	1.00	0.00	C
ATOM	2655	HD11	ILE	170	46.765	63.660	46.274	1.00	0.00	H
ATOM	2656	HD12	ILE	170	45.023	63.521	46.554	1.00	0.00	H
ATOM	2657	HD13	ILE	170	46.030	64.351	47.741	1.00	0.00	H
ATOM	2658	C	ILE	170	46.667	67.080	43.495	1.00	0.00	C
ATOM	2659	O	ILE	170	45.604	67.150	42.878	1.00	0.00	O
ATOM	2660	N	GLU	171	47.777	66.569	42.959	1.00	0.00	N
ATOM	2661	H	GLU	171	48.597	66.493	43.540	1.00	0.00	H
ATOM	2662	CA	GLU	171	47.925	66.128	41.566	1.00	0.00	C
ATOM	2663	HA	GLU	171	46.962	66.204	41.058	1.00	0.00	H
ATOM	2664	CB	GLU	171	48.921	67.035	40.816	1.00	0.00	C
ATOM	2665	HB2	GLU	171	49.868	67.047	41.359	1.00	0.00	H
ATOM	2666	HB3	GLU	171	49.096	66.617	39.824	1.00	0.00	H
ATOM	2667	CG	GLU	171	48.410	68.477	40.656	1.00	0.00	C
ATOM	2668	HG2	GLU	171	47.508	68.458	40.041	1.00	0.00	H
ATOM	2669	HG3	GLU	171	48.142	68.868	41.639	1.00	0.00	H
ATOM	2670	CD	GLU	171	49.431	69.435	40.023	1.00	0.00	C
ATOM	2671	OE1	GLU	171	49.236	70.666	40.166	1.00	0.00	O
ATOM	2672	OE2	GLU	171	50.419	68.983	39.395	1.00	0.00	O
ATOM	2673	C	GLU	171	48.381	64.661	41.483	1.00	0.00	C
ATOM	2674	O	GLU	171	49.247	64.220	42.238	1.00	0.00	O
ATOM	2675	N	ALA	172	47.800	63.920	40.540	1.00	0.00	N
ATOM	2676	H	ALA	172	47.112	64.366	39.948	1.00	0.00	H
ATOM	2677	CA	ALA	172	48.141	62.550	40.148	1.00	0.00	C
ATOM	2678	HA	ALA	172	49.225	62.448	40.069	1.00	0.00	H
ATOM	2679	CB	ALA	172	47.606	61.573	41.209	1.00	0.00	C
ATOM	2680	HB1	ALA	172	48.067	61.787	42.174	1.00	0.00	H
ATOM	2681	HB2	ALA	172	47.852	60.548	40.930	1.00	0.00	H
ATOM	2682	HB3	ALA	172	46.524	61.674	41.299	1.00	0.00	H
ATOM	2683	C	ALA	172	47.508	62.271	38.769	1.00	0.00	C
ATOM	2684	O	ALA	172	46.681	63.071	38.312	1.00	0.00	O
ATOM	2685	N	LYS	173	47.804	61.114	38.140	1.00	0.00	N
ATOM	2686	H	LYS	173	48.501	60.514	38.558	1.00	0.00	H
ATOM	2687	CA	LYS	173	47.261	60.755	36.801	1.00	0.00	C
ATOM	2688	HA	LYS	173	47.627	59.764	36.529	1.00	0.00	H
ATOM	2689	CB	LYS	173	45.719	60.693	36.954	1.00	0.00	C
ATOM	2690	HB2	LYS	173	45.474	60.794	38.014	1.00	0.00	H
ATOM	2691	HB3	LYS	173	45.285	61.559	36.458	1.00	0.00	H
ATOM	2692	CG	LYS	173	44.986	59.418	36.512	1.00	0.00	C
ATOM	2693	HG2	LYS	173	44.880	59.392	35.432	1.00	0.00	H
ATOM	2694	HG3	LYS	173	45.544	58.536	36.832	1.00	0.00	H
ATOM	2695	CD	LYS	173	43.577	59.363	37.122	1.00	0.00	C
ATOM	2696	HD2	LYS	173	42.999	58.637	36.552	1.00	0.00	H
ATOM	2697	HD3	LYS	173	43.648	59.017	38.155	1.00	0.00	H
ATOM	2698	CE	LYS	173	42.848	60.712	37.095	1.00	0.00	C
ATOM	2699	HE2	LYS	173	43.389	61.426	37.723	1.00	0.00	H
ATOM	2700	HE3	LYS	173	42.859	61.074	36.068	1.00	0.00	H
ATOM	2701	NZ	LYS	173	41.459	60.577	37.570	1.00	0.00	N
ATOM	2702	HZ1	LYS	173	41.411	60.101	38.460	1.00	0.00	H

ATOM	2703	HZ2	LYS	173	40.953	59.906	36.976	1.00	0.00	H
ATOM	2704	HZ3	LYS	173	40.934	61.435	37.573	1.00	0.00	H
ATOM	2705	C	LYS	173	47.803	61.741	35.722	1.00	0.00	C
ATOM	2706	O	LYS	173	48.612	62.603	36.034	1.00	0.00	O
ATOM	2707	N	GLY	174	47.461	61.701	34.432	1.00	0.00	N
ATOM	2708	H	GLY	174	48.032	62.314	33.866	1.00	0.00	H
ATOM	2709	CA	GLY	174	46.463	60.898	33.710	1.00	0.00	C
ATOM	2710	HA2	GLY	174	46.834	60.752	32.694	1.00	0.00	H
ATOM	2711	HA3	GLY	174	46.386	59.907	34.150	1.00	0.00	H
ATOM	2712	C	GLY	174	45.067	61.545	33.578	1.00	0.00	C
ATOM	2713	O	GLY	174	44.160	60.932	33.030	1.00	0.00	O
ATOM	2714	N	LYS	175	44.900	62.787	34.063	1.00	0.00	N
ATOM	2715	H	LYS	175	45.711	63.166	34.526	1.00	0.00	H
ATOM	2716	CA	LYS	175	43.779	63.719	33.761	1.00	0.00	C
ATOM	2717	HA	LYS	175	43.395	63.481	32.767	1.00	0.00	H
ATOM	2718	CB	LYS	175	42.619	63.583	34.780	1.00	0.00	C
ATOM	2719	HB2	LYS	175	43.044	63.418	35.771	1.00	0.00	H
ATOM	2720	HB3	LYS	175	42.071	64.527	34.824	1.00	0.00	H
ATOM	2721	CG	LYS	175	41.587	62.471	34.481	1.00	0.00	C
ATOM	2722	HG2	LYS	175	42.106	61.541	34.267	1.00	0.00	H
ATOM	2723	HG3	LYS	175	40.981	62.316	35.373	1.00	0.00	H
ATOM	2724	CD	LYS	175	40.630	62.789	33.322	1.00	0.00	C
ATOM	2725	HD2	LYS	175	39.915	63.554	33.630	1.00	0.00	H
ATOM	2726	HD3	LYS	175	41.204	63.189	32.485	1.00	0.00	H
ATOM	2727	CE	LYS	175	39.878	61.552	32.804	1.00	0.00	C
ATOM	2728	HE2	LYS	175	39.371	61.842	31.879	1.00	0.00	H
ATOM	2729	HE3	LYS	175	40.599	60.777	32.532	1.00	0.00	H
ATOM	2730	NZ	LYS	175	38.856	60.994	33.728	1.00	0.00	N
ATOM	2731	HZ1	LYS	175	38.298	60.307	33.213	1.00	0.00	H
ATOM	2732	HZ2	LYS	175	38.202	61.708	34.032	1.00	0.00	H
ATOM	2733	HZ3	LYS	175	39.240	60.499	34.534	1.00	0.00	H
ATOM	2734	C	LYS	175	44.242	65.189	33.658	1.00	0.00	C
ATOM	2735	O	LYS	175	43.593	65.967	32.967	1.00	0.00	O
ATOM	2736	N	ALA	176	45.388	65.526	34.268	1.00	0.00	N
ATOM	2737	H	ALA	176	45.817	64.842	34.863	1.00	0.00	H
ATOM	2738	CA	ALA	176	46.128	66.791	34.124	1.00	0.00	C
ATOM	2739	HA	ALA	176	47.024	66.663	34.732	1.00	0.00	H
ATOM	2740	CB	ALA	176	46.639	66.936	32.680	1.00	0.00	C
ATOM	2741	HB1	ALA	176	47.145	66.022	32.365	1.00	0.00	H
ATOM	2742	HB2	ALA	176	47.349	67.763	32.622	1.00	0.00	H
ATOM	2743	HB3	ALA	176	45.808	67.145	32.005	1.00	0.00	H
ATOM	2744	C	ALA	176	45.475	68.068	34.712	1.00	0.00	C
ATOM	2745	O	ALA	176	45.715	69.169	34.215	1.00	0.00	O
ATOM	2746	N	GLU	177	44.708	67.940	35.801	1.00	0.00	N
ATOM	2747	H	GLU	177	44.554	67.021	36.184	1.00	0.00	H
ATOM	2748	CA	GLU	177	44.161	69.060	36.591	1.00	0.00	C
ATOM	2749	HA	GLU	177	44.829	69.914	36.488	1.00	0.00	H
ATOM	2750	CB	GLU	177	42.786	69.455	36.007	1.00	0.00	C
ATOM	2751	HB2	GLU	177	42.892	69.656	34.939	1.00	0.00	H
ATOM	2752	HB3	GLU	177	42.130	68.588	36.104	1.00	0.00	H
ATOM	2753	CG	GLU	177	42.062	70.651	36.655	1.00	0.00	C
ATOM	2754	HG2	GLU	177	41.006	70.572	36.386	1.00	0.00	H



ATOM	2755	HG3	GLU	177	42.114	70.570	37.742	1.00	0.00	H
ATOM	2756	CD	GLU	177	42.554	72.043	36.214	1.00	0.00	C
ATOM	2757	OE1	GLU	177	43.700	72.193	35.729	1.00	0.00	O
ATOM	2758	OE2	GLU	177	41.786	73.020	36.397	1.00	0.00	O
ATOM	2759	C	GLU	177	44.089	68.651	38.087	1.00	0.00	C
ATOM	2760	O	GLU	177	43.774	67.487	38.365	1.00	0.00	O
ATOM	2761	N	PRO	178	44.412	69.537	39.056	1.00	0.00	N
ATOM	2762	CD	PRO	178	44.891	70.901	38.866	1.00	0.00	C
ATOM	2763	HD2	PRO	178	44.274	71.461	38.168	1.00	0.00	H
ATOM	2764	HD3	PRO	178	45.922	70.874	38.512	1.00	0.00	H
ATOM	2765	CG	PRO	178	44.843	71.562	40.241	1.00	0.00	C
ATOM	2766	HG2	PRO	178	43.840	71.950	40.430	1.00	0.00	H
ATOM	2767	HG3	PRO	178	45.588	72.353	40.337	1.00	0.00	H
ATOM	2768	CB	PRO	178	45.130	70.390	41.175	1.00	0.00	C
ATOM	2769	HB2	PRO	178	44.747	70.572	42.179	1.00	0.00	H
ATOM	2770	HB3	PRO	178	46.204	70.214	41.209	1.00	0.00	H
ATOM	2771	CA	PRO	178	44.431	69.210	40.488	1.00	0.00	C
ATOM	2772	HA	PRO	178	45.028	68.310	40.638	1.00	0.00	H
ATOM	2773	C	PRO	178	43.039	68.972	41.095	1.00	0.00	C
ATOM	2774	O	PRO	178	42.035	69.522	40.643	1.00	0.00	O
ATOM	2775	N	LEU	179	42.991	68.190	42.180	1.00	0.00	N
ATOM	2776	H	LEU	179	43.869	67.798	42.510	1.00	0.00	H
ATOM	2777	CA	LEU	179	41.764	67.798	42.883	1.00	0.00	C
ATOM	2778	HA	LEU	179	40.903	68.193	42.343	1.00	0.00	H
ATOM	2779	CB	LEU	179	41.659	66.260	42.901	1.00	0.00	C
ATOM	2780	HB2	LEU	179	42.468	65.874	43.524	1.00	0.00	H
ATOM	2781	HB3	LEU	179	40.719	65.991	43.378	1.00	0.00	H
ATOM	2782	CG	LEU	179	41.739	65.557	41.530	1.00	0.00	C
ATOM	2783	HG	LEU	179	42.702	65.764	41.064	1.00	0.00	H
ATOM	2784	CD1	LEU	179	41.624	64.043	41.733	1.00	0.00	C
ATOM	2785	HD11	LEU	179	42.427	63.703	42.388	1.00	0.00	H
ATOM	2786	HD12	LEU	179	41.722	63.539	40.773	1.00	0.00	H
ATOM	2787	HD13	LEU	179	40.662	63.793	42.181	1.00	0.00	H
ATOM	2788	CD2	LEU	179	40.620	65.986	40.579	1.00	0.00	C
ATOM	2789	HD21	LEU	179	39.645	65.781	41.013	1.00	0.00	H
ATOM	2790	HD22	LEU	179	40.711	67.050	40.359	1.00	0.00	H
ATOM	2791	HD23	LEU	179	40.719	65.449	39.636	1.00	0.00	H
ATOM	2792	C	LEU	179	41.710	68.357	44.317	1.00	0.00	C
ATOM	2793	O	LEU	179	42.661	68.188	45.079	1.00	0.00	O
ATOM	2794	N	ASN	180	40.577	68.963	44.699	1.00	0.00	N
ATOM	2795	H	ASN	180	39.864	69.107	44.004	1.00	0.00	H
ATOM	2796	CA	ASN	180	40.285	69.389	46.079	1.00	0.00	C
ATOM	2797	HA	ASN	180	41.151	69.934	46.463	1.00	0.00	H
ATOM	2798	CB	ASN	180	39.056	70.328	46.104	1.00	0.00	C
ATOM	2799	HB2	ASN	180	38.207	69.799	45.681	1.00	0.00	H
ATOM	2800	HB3	ASN	180	38.812	70.566	47.139	1.00	0.00	H
ATOM	2801	CG	ASN	180	39.193	71.650	45.365	1.00	0.00	C
ATOM	2802	OD1	ASN	180	40.270	72.162	45.120	1.00	0.00	O
ATOM	2803	ND2	ASN	180	38.092	72.256	44.988	1.00	0.00	N
ATOM	2804	HD21	ASN	180	37.190	71.866	45.190	1.00	0.00	H
ATOM	2805	HD22	ASN	180	38.190	73.168	44.551	1.00	0.00	H
ATOM	2806	C	ASN	180	40.030	68.179	47.009	1.00	0.00	C

ATOM	2807	O	ASN	180	39.288	67.259	46.636	1.00	0.00	O
ATOM	2808	N	LEU	181	40.575	68.220	48.232	1.00	0.00	N
ATOM	2809	H	LEU	181	41.201	68.992	48.445	1.00	0.00	H
ATOM	2810	CA	LEU	181	40.551	67.121	49.207	1.00	0.00	C
ATOM	2811	HA	LEU	181	39.766	66.428	48.910	1.00	0.00	H
ATOM	2812	CB	LEU	181	41.918	66.412	49.129	1.00	0.00	C
ATOM	2813	HB2	LEU	181	42.237	66.359	48.086	1.00	0.00	H
ATOM	2814	HB3	LEU	181	42.650	67.024	49.660	1.00	0.00	H
ATOM	2815	CG	LEU	181	41.936	64.988	49.705	1.00	0.00	C
ATOM	2816	HG	LEU	181	41.517	64.983	50.710	1.00	0.00	H
ATOM	2817	CD1	LEU	181	41.143	64.032	48.815	1.00	0.00	C
ATOM	2818	HD11	LEU	181	40.112	64.349	48.740	1.00	0.00	H
ATOM	2819	HD12	LEU	181	41.158	63.035	49.246	1.00	0.00	H
ATOM	2820	HD13	LEU	181	41.568	64.016	47.813	1.00	0.00	H
ATOM	2821	CD2	LEU	181	43.374	64.476	49.766	1.00	0.00	C
ATOM	2822	HD21	LEU	181	43.827	64.527	48.778	1.00	0.00	H
ATOM	2823	HD22	LEU	181	43.953	65.089	50.457	1.00	0.00	H
ATOM	2824	HD23	LEU	181	43.386	63.442	50.109	1.00	0.00	H
ATOM	2825	C	LEU	181	40.219	67.591	50.642	1.00	0.00	C
ATOM	2826	O	LEU	181	40.620	68.686	51.045	1.00	0.00	O
ATOM	2827	N	TYR	182	39.491	66.766	51.410	1.00	0.00	N
ATOM	2828	H	TYR	182	39.195	65.881	51.014	1.00	0.00	H
ATOM	2829	CA	TYR	182	38.828	67.165	52.665	1.00	0.00	C
ATOM	2830	HA	TYR	182	39.306	68.071	53.038	1.00	0.00	H
ATOM	2831	CB	TYR	182	37.349	67.504	52.389	1.00	0.00	C
ATOM	2832	HB2	TYR	182	36.835	66.584	52.107	1.00	0.00	H
ATOM	2833	HB3	TYR	182	36.892	67.845	53.319	1.00	0.00	H
ATOM	2834	CG	TYR	182	37.071	68.541	51.309	1.00	0.00	C
ATOM	2835	CD1	TYR	182	36.655	69.845	51.649	1.00	0.00	C
ATOM	2836	HD1	TYR	182	36.563	70.128	52.689	1.00	0.00	H
ATOM	2837	CE1	TYR	182	36.311	70.769	50.639	1.00	0.00	C
ATOM	2838	HE1	TYR	182	35.959	71.757	50.898	1.00	0.00	H
ATOM	2839	CZ	TYR	182	36.403	70.394	49.281	1.00	0.00	C
ATOM	2840	OH	TYR	182	36.011	71.239	48.288	1.00	0.00	O
ATOM	2841	HH	TYR	182	35.782	70.731	47.494	1.00	0.00	H
ATOM	2842	CE2	TYR	182	36.864	69.106	48.945	1.00	0.00	C
ATOM	2843	HE2	TYR	182	36.978	68.829	47.913	1.00	0.00	H
ATOM	2844	CD2	TYR	182	37.155	68.173	49.952	1.00	0.00	C
ATOM	2845	HD2	TYR	182	37.441	67.166	49.682	1.00	0.00	H
ATOM	2846	C	TYR	182	38.918	66.116	53.797	1.00	0.00	C
ATOM	2847	O	TYR	182	39.101	64.921	53.557	1.00	0.00	O
ATOM	2848	N	GLU	183	38.751	66.606	55.027	1.00	0.00	N
ATOM	2849	H	GLU	183	38.580	67.605	55.079	1.00	0.00	H
ATOM	2850	CA	GLU	183	38.744	65.945	56.345	1.00	0.00	C
ATOM	2851	HA	GLU	183	38.988	64.888	56.238	1.00	0.00	H
ATOM	2852	CB	GLU	183	39.835	66.648	57.188	1.00	0.00	C
ATOM	2853	HB2	GLU	183	40.755	66.677	56.604	1.00	0.00	H
ATOM	2854	HB3	GLU	183	39.503	67.678	57.316	1.00	0.00	H
ATOM	2855	CG	GLU	183	40.195	66.065	58.573	1.00	0.00	C
ATOM	2856	HG2	GLU	183	39.378	65.459	58.955	1.00	0.00	H
ATOM	2857	HG3	GLU	183	41.047	65.395	58.449	1.00	0.00	H
ATOM	2858	CD	GLU	183	40.544	67.139	59.627	1.00	0.00	C

ATOM	2859	OE1	GLU	183	41.007	68.241	59.246	1.00	0.00	O
ATOM	2860	OE2	GLU	183	40.383	66.852	60.840	1.00	0.00	O
ATOM	2861	C	GLU	183	37.349	66.081	57.012	1.00	0.00	C
ATOM	2862	O	GLU	183	36.550	66.931	56.603	1.00	0.00	O
ATOM	2863	N	ILE	184	37.060	65.281	58.051	1.00	0.00	N
ATOM	2864	H	ILE	184	37.796	64.682	58.402	1.00	0.00	H
ATOM	2865	CA	ILE	184	35.831	65.297	58.880	1.00	0.00	C
ATOM	2866	HA	ILE	184	35.324	66.252	58.756	1.00	0.00	H
ATOM	2867	CB	ILE	184	34.866	64.163	58.448	1.00	0.00	C
ATOM	2868	HB	ILE	184	35.392	63.210	58.551	1.00	0.00	H
ATOM	2869	CG2	ILE	184	33.624	64.123	59.363	1.00	0.00	C
ATOM	2870	HG21	ILE	184	33.922	63.955	60.397	1.00	0.00	H
ATOM	2871	HG22	ILE	184	32.968	63.296	59.096	1.00	0.00	H
ATOM	2872	HG23	ILE	184	33.083	65.067	59.296	1.00	0.00	H
ATOM	2873	CG1	ILE	184	34.453	64.336	56.968	1.00	0.00	C
ATOM	2874	HG12	ILE	184	33.986	65.312	56.840	1.00	0.00	H
ATOM	2875	HG13	ILE	184	35.342	64.305	56.339	1.00	0.00	H
ATOM	2876	CD1	ILE	184	33.507	63.251	56.442	1.00	0.00	C
ATOM	2877	HD11	ILE	184	33.952	62.267	56.588	1.00	0.00	H
ATOM	2878	HD12	ILE	184	33.332	63.414	55.382	1.00	0.00	H
ATOM	2879	HD13	ILE	184	32.545	63.305	56.948	1.00	0.00	H
ATOM	2880	C	ILE	184	36.191	65.222	60.368	1.00	0.00	C
ATOM	2881	O	ILE	184	37.166	64.515	60.712	1.00	0.00	O
ATOM	2882	OXT	ILE	184	35.485	65.836	61.194	1.00	0.00	O
TER	2883		ILE	184						
ATOM	2883	N	LEU	185	40.791	23.668	52.151	1.00	0.00	N
ATOM	2884	H1	LEU	185	40.219	23.897	51.346	1.00	0.00	H
ATOM	2885	H2	LEU	185	41.746	23.614	51.829	1.00	0.00	H
ATOM	2886	H3	LEU	185	40.512	22.754	52.487	1.00	0.00	H
ATOM	2887	CA	LEU	185	40.644	24.689	53.219	1.00	0.00	C
ATOM	2888	HA	LEU	185	40.801	25.664	52.758	1.00	0.00	H
ATOM	2889	CB	LEU	185	39.242	24.721	53.865	1.00	0.00	C
ATOM	2890	HB2	LEU	185	39.074	23.794	54.412	1.00	0.00	H
ATOM	2891	HB3	LEU	185	39.224	25.533	54.595	1.00	0.00	H
ATOM	2892	CG	LEU	185	38.078	24.929	52.876	1.00	0.00	C
ATOM	2893	HG	LEU	185	38.067	24.109	52.157	1.00	0.00	H
ATOM	2894	CD1	LEU	185	36.748	24.932	53.628	1.00	0.00	C
ATOM	2895	HD11	LEU	185	36.620	23.989	54.161	1.00	0.00	H
ATOM	2896	HD12	LEU	185	35.920	25.049	52.928	1.00	0.00	H
ATOM	2897	HD13	LEU	185	36.719	25.751	54.348	1.00	0.00	H
ATOM	2898	CD2	LEU	185	38.207	26.249	52.112	1.00	0.00	C
ATOM	2899	HD21	LEU	185	38.260	27.081	52.816	1.00	0.00	H
ATOM	2900	HD22	LEU	185	39.092	26.247	51.477	1.00	0.00	H
ATOM	2901	HD23	LEU	185	37.331	26.384	51.476	1.00	0.00	H
ATOM	2902	C	LEU	185	41.738	24.573	54.280	1.00	0.00	C
ATOM	2903	O	LEU	185	42.472	25.539	54.434	1.00	0.00	O
ATOM	2904	N	LYS	186	41.896	23.426	54.962	1.00	0.00	N
ATOM	2905	H	LYS	186	41.267	22.659	54.727	1.00	0.00	H
ATOM	2906	CA	LYS	186	42.746	23.190	56.163	1.00	0.00	C
ATOM	2907	HA	LYS	186	42.454	23.912	56.929	1.00	0.00	H
ATOM	2908	CB	LYS	186	42.424	21.775	56.703	1.00	0.00	C
ATOM	2909	HB2	LYS	186	42.611	21.057	55.903	1.00	0.00	H

ATOM	2910	HB3 LYS	186	43.090	21.528	57.532	1.00	0.00	H
ATOM	2911	CG LYS	186	40.979	21.617	57.216	1.00	0.00	C
ATOM	2912	HG2 LYS	186	40.896	22.067	58.206	1.00	0.00	H
ATOM	2913	HG3 LYS	186	40.290	22.137	56.552	1.00	0.00	H
ATOM	2914	CD LYS	186	40.564	20.137	57.281	1.00	0.00	C
ATOM	2915	HD2 LYS	186	40.764	19.674	56.313	1.00	0.00	H
ATOM	2916	HD3 LYS	186	41.140	19.618	58.049	1.00	0.00	H
ATOM	2917	CE LYS	186	39.065	20.037	57.584	1.00	0.00	C
ATOM	2918	HE2 LYS	186	38.898	20.220	58.649	1.00	0.00	H
ATOM	2919	HE3 LYS	186	38.550	20.822	57.023	1.00	0.00	H
ATOM	2920	NZ LYS	186	38.496	18.728	57.184	1.00	0.00	N
ATOM	2921	HZ1 LYS	186	38.874	17.946	57.716	1.00	0.00	H
ATOM	2922	HZ2 LYS	186	38.612	18.571	56.186	1.00	0.00	H
ATOM	2923	HZ3 LYS	186	37.487	18.741	57.323	1.00	0.00	H
ATOM	2924	C LYS	186	44.278	23.381	56.005	1.00	0.00	C
ATOM	2925	O LYS	186	45.046	22.915	56.843	1.00	0.00	O
ATOM	2926	N SER	187	44.753	24.058	54.958	1.00	0.00	N
ATOM	2927	H SER	187	44.073	24.555	54.402	1.00	0.00	H
ATOM	2928	CA SER	187	46.168	24.412	54.785	1.00	0.00	C
ATOM	2929	HA SER	187	46.782	23.514	54.871	1.00	0.00	H
ATOM	2930	CB SER	187	46.393	25.021	53.392	1.00	0.00	C
ATOM	2931	HB2 SER	187	46.201	24.260	52.634	1.00	0.00	H
ATOM	2932	HB3 SER	187	45.683	25.836	53.246	1.00	0.00	H
ATOM	2933	OG SER	187	47.715	25.520	53.224	1.00	0.00	O
ATOM	2934	HG SER	187	47.971	26.048	53.996	1.00	0.00	H
ATOM	2935	C SER	187	46.601	25.423	55.847	1.00	0.00	C
ATOM	2936	O SER	187	46.202	26.586	55.790	1.00	0.00	O
ATOM	2937	N HID	188	47.497	25.026	56.752	1.00	0.00	N
ATOM	2938	H HID	188	47.770	24.054	56.785	1.00	0.00	H
ATOM	2939	CA HID	188	48.217	25.986	57.591	1.00	0.00	C
ATOM	2940	HA HID	188	47.477	26.571	58.140	1.00	0.00	H
ATOM	2941	CB HID	188	49.117	25.271	58.613	1.00	0.00	C
ATOM	2942	HB2 HID	188	50.021	24.931	58.106	1.00	0.00	H
ATOM	2943	HB3 HID	188	49.425	25.990	59.374	1.00	0.00	H
ATOM	2944	CG HID	188	48.490	24.082	59.299	1.00	0.00	C
ATOM	2945	ND1 HID	188	47.271	24.048	59.937	1.00	0.00	N
ATOM	2946	HD1 HID	188	46.621	24.816	60.034	1.00	0.00	H
ATOM	2947	CE1 HID	188	47.054	22.795	60.362	1.00	0.00	C
ATOM	2948	HE1 HID	188	46.161	22.470	60.885	1.00	0.00	H
ATOM	2949	NE2 HID	188	48.093	21.999	60.040	1.00	0.00	N
ATOM	2950	CD2 HID	188	49.000	22.812	59.342	1.00	0.00	C
ATOM	2951	HD2 HID	188	49.939	22.494	58.905	1.00	0.00	H
ATOM	2952	C HID	188	49.035	26.948	56.712	1.00	0.00	C
ATOM	2953	O HID	188	49.493	26.566	55.628	1.00	0.00	O
ATOM	2954	N ALA	189	49.208	28.189	57.166	1.00	0.00	N
ATOM	2955	H ALA	189	48.827	28.440	58.063	1.00	0.00	H
ATOM	2956	CA ALA	189	50.016	29.185	56.468	1.00	0.00	C
ATOM	2957	HA ALA	189	49.713	29.195	55.420	1.00	0.00	H
ATOM	2958	CB ALA	189	49.713	30.560	57.071	1.00	0.00	C
ATOM	2959	HB1 ALA	189	50.273	31.328	56.537	1.00	0.00	H
ATOM	2960	HB2 ALA	189	49.999	30.579	58.124	1.00	0.00	H
ATOM	2961	HB3 ALA	189	48.648	30.777	56.979	1.00	0.00	H

ATOM	2962	C	ALA	189	51.523	28.860	56.517	1.00	0.00	C
ATOM	2963	O	ALA	189	51.993	28.176	57.428	1.00	0.00	O
ATOM	2964	N	THR	190	52.292	29.405	55.571	1.00	0.00	N
ATOM	2965	H	THR	190	51.833	29.958	54.851	1.00	0.00	H
ATOM	2966	CA	THR	190	53.762	29.322	55.547	1.00	0.00	C
ATOM	2967	HA	THR	190	54.115	29.024	56.534	1.00	0.00	H
ATOM	2968	CB	THR	190	54.305	28.284	54.541	1.00	0.00	C
ATOM	2969	HB	THR	190	55.390	28.260	54.649	1.00	0.00	H
ATOM	2970	CG2	THR	190	53.782	26.871	54.778	1.00	0.00	C
ATOM	2971	HG21	THR	190	53.959	26.581	55.814	1.00	0.00	H
ATOM	2972	HG22	THR	190	54.314	26.183	54.124	1.00	0.00	H
ATOM	2973	HG23	THR	190	52.713	26.821	54.567	1.00	0.00	H
ATOM	2974	OG1	THR	190	54.014	28.629	53.197	1.00	0.00	O
ATOM	2975	HG1	THR	190	54.014	29.602	53.172	1.00	0.00	H
ATOM	2976	C	THR	190	54.386	30.672	55.216	1.00	0.00	C
ATOM	2977	O	THR	190	54.059	31.263	54.187	1.00	0.00	O
ATOM	2978	N	VAL	191	55.353	31.100	56.027	1.00	0.00	N
ATOM	2979	H	VAL	191	55.567	30.545	56.841	1.00	0.00	H
ATOM	2980	CA	VAL	191	56.391	32.056	55.608	1.00	0.00	C
ATOM	2981	HA	VAL	191	55.929	32.942	55.175	1.00	0.00	H
ATOM	2982	CB	VAL	191	57.226	32.484	56.832	1.00	0.00	C
ATOM	2983	HB	VAL	191	57.577	31.590	57.351	1.00	0.00	H
ATOM	2984	CG1	VAL	191	58.439	33.341	56.486	1.00	0.00	C
ATOM	2985	HG11	VAL	191	58.121	34.249	55.973	1.00	0.00	H
ATOM	2986	HG12	VAL	191	58.977	33.619	57.391	1.00	0.00	H
ATOM	2987	HG13	VAL	191	59.127	32.795	55.840	1.00	0.00	H
ATOM	2988	CG2	VAL	191	56.360	33.301	57.799	1.00	0.00	C
ATOM	2989	HG21	VAL	191	55.498	32.719	58.109	1.00	0.00	H
ATOM	2990	HG22	VAL	191	56.023	34.216	57.312	1.00	0.00	H
ATOM	2991	HG23	VAL	191	56.943	33.560	58.684	1.00	0.00	H
ATOM	2992	C	VAL	191	57.252	31.376	54.534	1.00	0.00	C
ATOM	2993	O	VAL	191	57.660	30.228	54.734	1.00	0.00	O
ATOM	2994	N	ARG	192	57.458	32.016	53.377	1.00	0.00	N
ATOM	2995	H	ARG	192	57.099	32.964	53.283	1.00	0.00	H
ATOM	2996	CA	ARG	192	58.191	31.445	52.237	1.00	0.00	C
ATOM	2997	HA	ARG	192	59.065	30.927	52.636	1.00	0.00	H
ATOM	2998	CB	ARG	192	57.285	30.441	51.505	1.00	0.00	C
ATOM	2999	HB2	ARG	192	56.686	29.901	52.239	1.00	0.00	H
ATOM	3000	HB3	ARG	192	56.601	30.982	50.848	1.00	0.00	H
ATOM	3001	CG	ARG	192	58.089	29.412	50.692	1.00	0.00	C
ATOM	3002	HG2	ARG	192	58.820	29.917	50.061	1.00	0.00	H
ATOM	3003	HG3	ARG	192	58.620	28.753	51.380	1.00	0.00	H
ATOM	3004	CD	ARG	192	57.186	28.573	49.784	1.00	0.00	C
ATOM	3005	HD2	ARG	192	56.841	29.207	48.965	1.00	0.00	H
ATOM	3006	HD3	ARG	192	57.776	27.758	49.356	1.00	0.00	H
ATOM	3007	NE	ARG	192	56.019	28.029	50.505	1.00	0.00	N
ATOM	3008	HE	ARG	192	55.967	28.199	51.496	1.00	0.00	H
ATOM	3009	CZ	ARG	192	54.997	27.406	49.959	1.00	0.00	C
ATOM	3010	NH1	ARG	192	54.970	27.089	48.695	1.00	0.00	N
ATOM	3011	HH11	ARG	192	55.781	27.331	48.103	1.00	0.00	H
ATOM	3012	HH12	ARG	192	54.187	26.639	48.278	1.00	0.00	H
ATOM	3013	NH2	ARG	192	53.967	27.108	50.701	1.00	0.00	N

ATOM	3014	HH21	ARG	192	53.942	27.434	51.664	1.00	0.00	H
ATOM	3015	HH22	ARG	192	53.194	26.597	50.327	1.00	0.00	H
ATOM	3016	C	ARG	192	58.668	32.512	51.249	1.00	0.00	C
ATOM	3017	O	ARG	192	57.905	33.386	50.844	1.00	0.00	O
ATOM	3018	N	PHE	193	59.893	32.359	50.752	1.00	0.00	N
ATOM	3019	H	PHE	193	60.487	31.655	51.154	1.00	0.00	H
ATOM	3020	CA	PHE	193	60.437	33.191	49.678	1.00	0.00	C
ATOM	3021	HA	PHE	193	60.294	34.229	49.963	1.00	0.00	H
ATOM	3022	CB	PHE	193	61.951	32.953	49.560	1.00	0.00	C
ATOM	3023	HB2	PHE	193	62.117	31.972	49.114	1.00	0.00	H
ATOM	3024	HB3	PHE	193	62.371	33.702	48.889	1.00	0.00	H
ATOM	3025	CG	PHE	193	62.695	33.025	50.883	1.00	0.00	C
ATOM	3026	CD1	PHE	193	63.279	31.867	51.433	1.00	0.00	C
ATOM	3027	HD1	PHE	193	63.241	30.928	50.899	1.00	0.00	H
ATOM	3028	CE1	PHE	193	63.907	31.923	52.690	1.00	0.00	C
ATOM	3029	HE1	PHE	193	64.342	31.032	53.119	1.00	0.00	H
ATOM	3030	CZ	PHE	193	63.955	33.134	53.400	1.00	0.00	C
ATOM	3031	HZ	PHE	193	64.420	33.173	54.376	1.00	0.00	H
ATOM	3032	CE2	PHE	193	63.384	34.294	52.849	1.00	0.00	C
ATOM	3033	HE2	PHE	193	63.406	35.219	53.408	1.00	0.00	H
ATOM	3034	CD2	PHE	193	62.760	34.240	51.590	1.00	0.00	C
ATOM	3035	HD2	PHE	193	62.310	35.130	51.179	1.00	0.00	H
ATOM	3036	C	PHE	193	59.704	32.973	48.340	1.00	0.00	C
ATOM	3037	O	PHE	193	59.660	31.858	47.812	1.00	0.00	O
ATOM	3038	N	ALA	194	59.189	34.055	47.757	1.00	0.00	N
ATOM	3039	H	ALA	194	59.293	34.947	48.232	1.00	0.00	H
ATOM	3040	CA	ALA	194	58.441	34.071	46.502	1.00	0.00	C
ATOM	3041	HA	ALA	194	58.503	33.094	46.027	1.00	0.00	H
ATOM	3042	CB	ALA	194	56.966	34.319	46.823	1.00	0.00	C
ATOM	3043	HB1	ALA	194	56.862	35.268	47.350	1.00	0.00	H
ATOM	3044	HB2	ALA	194	56.588	33.512	47.452	1.00	0.00	H
ATOM	3045	HB3	ALA	194	56.380	34.351	45.904	1.00	0.00	H
ATOM	3046	C	ALA	194	58.991	35.108	45.509	1.00	0.00	C
ATOM	3047	O	ALA	194	59.592	36.114	45.897	1.00	0.00	O
ATOM	3048	N	THR	195	58.747	34.871	44.219	1.00	0.00	N
ATOM	3049	H	THR	195	58.192	34.048	44.006	1.00	0.00	H
ATOM	3050	CA	THR	195	58.829	35.893	43.167	1.00	0.00	C
ATOM	3051	HA	THR	195	59.507	36.688	43.476	1.00	0.00	H
ATOM	3052	CB	THR	195	59.325	35.322	41.829	1.00	0.00	C
ATOM	3053	HB	THR	195	58.522	34.761	41.357	1.00	0.00	H
ATOM	3054	CG2	THR	195	59.753	36.446	40.888	1.00	0.00	C
ATOM	3055	HG21	THR	195	60.191	36.020	39.988	1.00	0.00	H
ATOM	3056	HG22	THR	195	60.493	37.082	41.374	1.00	0.00	H
ATOM	3057	HG23	THR	195	58.890	37.048	40.604	1.00	0.00	H
ATOM	3058	OG1	THR	195	60.432	34.463	41.991	1.00	0.00	O
ATOM	3059	HG1	THR	195	60.110	33.603	42.298	1.00	0.00	H
ATOM	3060	C	THR	195	57.429	36.469	42.974	1.00	0.00	C
ATOM	3061	O	THR	195	56.480	35.706	42.799	1.00	0.00	O
ATOM	3062	N	ILE	196	57.280	37.790	43.010	1.00	0.00	N
ATOM	3063	H	ILE	196	58.113	38.367	43.073	1.00	0.00	H
ATOM	3064	CA	ILE	196	55.993	38.489	43.007	1.00	0.00	C
ATOM	3065	HA	ILE	196	55.186	37.765	42.891	1.00	0.00	H

ATOM	3066	CB	ILE	196	55.780	39.235	44.340	1.00	0.00	C
ATOM	3067	HB	ILE	196	56.534	40.021	44.405	1.00	0.00	H
ATOM	3068	CG2	ILE	196	54.406	39.917	44.316	1.00	0.00	C
ATOM	3069	HG21	ILE	196	54.394	40.739	43.599	1.00	0.00	H
ATOM	3070	HG22	ILE	196	54.205	40.321	45.297	1.00	0.00	H
ATOM	3071	HG23	ILE	196	53.626	39.202	44.051	1.00	0.00	H
ATOM	3072	CG1	ILE	196	55.935	38.371	45.615	1.00	0.00	C
ATOM	3073	HG12	ILE	196	56.938	37.945	45.644	1.00	0.00	H
ATOM	3074	HG13	ILE	196	55.843	39.025	46.483	1.00	0.00	H
ATOM	3075	CD1	ILE	196	54.922	37.236	45.786	1.00	0.00	C
ATOM	3076	HD11	ILE	196	53.909	37.635	45.818	1.00	0.00	H
ATOM	3077	HD12	ILE	196	55.113	36.723	46.728	1.00	0.00	H
ATOM	3078	HD13	ILE	196	55.020	36.522	44.969	1.00	0.00	H
ATOM	3079	C	ILE	196	55.924	39.467	41.834	1.00	0.00	C
ATOM	3080	O	ILE	196	56.836	40.272	41.640	1.00	0.00	O
ATOM	3081	N	MET	197	54.816	39.431	41.096	1.00	0.00	N
ATOM	3082	H	MET	197	54.095	38.761	41.346	1.00	0.00	H
ATOM	3083	CA	MET	197	54.566	40.241	39.906	1.00	0.00	C
ATOM	3084	HA	MET	197	55.400	40.925	39.754	1.00	0.00	H
ATOM	3085	CB	MET	197	54.508	39.292	38.704	1.00	0.00	C
ATOM	3086	HB2	MET	197	55.450	38.743	38.687	1.00	0.00	H
ATOM	3087	HB3	MET	197	53.697	38.582	38.853	1.00	0.00	H
ATOM	3088	CG	MET	197	54.354	39.949	37.329	1.00	0.00	C
ATOM	3089	HG2	MET	197	55.101	40.740	37.252	1.00	0.00	H
ATOM	3090	HG3	MET	197	54.601	39.193	36.585	1.00	0.00	H
ATOM	3091	SD	MET	197	52.752	40.661	36.849	1.00	0.00	S
ATOM	3092	CE	MET	197	51.628	39.247	36.848	1.00	0.00	C
ATOM	3093	HE1	MET	197	50.673	39.542	36.414	1.00	0.00	H
ATOM	3094	HE2	MET	197	52.052	38.437	36.255	1.00	0.00	H
ATOM	3095	HE3	MET	197	51.457	38.926	37.874	1.00	0.00	H
ATOM	3096	C	MET	197	53.292	41.075	40.056	1.00	0.00	C
ATOM	3097	O	MET	197	52.288	40.591	40.586	1.00	0.00	O
ATOM	3098	N	PHE	198	53.327	42.305	39.544	1.00	0.00	N
ATOM	3099	H	PHE	198	54.194	42.622	39.115	1.00	0.00	H
ATOM	3100	CA	PHE	198	52.148	43.139	39.316	1.00	0.00	C
ATOM	3101	HA	PHE	198	51.254	42.519	39.377	1.00	0.00	H
ATOM	3102	CB	PHE	198	52.069	44.214	40.409	1.00	0.00	C
ATOM	3103	HB2	PHE	198	52.284	43.751	41.373	1.00	0.00	H
ATOM	3104	HB3	PHE	198	52.849	44.953	40.224	1.00	0.00	H
ATOM	3105	CG	PHE	198	50.722	44.906	40.523	1.00	0.00	C
ATOM	3106	CD1	PHE	198	50.537	46.223	40.063	1.00	0.00	C
ATOM	3107	HD1	PHE	198	51.349	46.760	39.602	1.00	0.00	H
ATOM	3108	CE1	PHE	198	49.291	46.857	40.199	1.00	0.00	C
ATOM	3109	HE1	PHE	198	49.169	47.868	39.828	1.00	0.00	H
ATOM	3110	CZ	PHE	198	48.218	46.175	40.801	1.00	0.00	C
ATOM	3111	HZ	PHE	198	47.257	46.658	40.905	1.00	0.00	H
ATOM	3112	CE2	PHE	198	48.397	44.860	41.266	1.00	0.00	C
ATOM	3113	HE2	PHE	198	47.574	44.332	41.727	1.00	0.00	H
ATOM	3114	CD2	PHE	198	49.647	44.230	41.127	1.00	0.00	C
ATOM	3115	HD2	PHE	198	49.789	43.221	41.480	1.00	0.00	H
ATOM	3116	C	PHE	198	52.207	43.740	37.903	1.00	0.00	C
ATOM	3117	O	PHE	198	53.270	44.179	37.461	1.00	0.00	O

ATOM	3118	N	CYS	199	51.086	43.768	37.184	1.00	0.00	N
ATOM	3119	H	CYS	199	50.240	43.371	37.576	1.00	0.00	H
ATOM	3120	CA	CYS	199	51.000	44.351	35.840	1.00	0.00	C
ATOM	3121	HA	CYS	199	51.744	45.142	35.748	1.00	0.00	H
ATOM	3122	CB	CYS	199	51.317	43.280	34.783	1.00	0.00	C
ATOM	3123	HB2	CYS	199	51.337	43.747	33.798	1.00	0.00	H
ATOM	3124	HB3	CYS	199	52.302	42.859	34.983	1.00	0.00	H
ATOM	3125	SG	CYS	199	50.082	41.947	34.775	1.00	0.00	S
ATOM	3126	HG	CYS	199	50.328	41.543	36.028	1.00	0.00	H
ATOM	3127	C	CYS	199	49.634	45.001	35.612	1.00	0.00	C
ATOM	3128	O	CYS	199	48.635	44.534	36.163	1.00	0.00	O
ATOM	3129	N	ASP	200	49.582	46.079	34.823	1.00	0.00	N
ATOM	3130	H	ASP	200	50.433	46.400	34.371	1.00	0.00	H
ATOM	3131	CA	ASP	200	48.334	46.791	34.527	1.00	0.00	C
ATOM	3132	HA	ASP	200	47.576	46.017	34.380	1.00	0.00	H
ATOM	3133	CB	ASP	200	47.883	47.576	35.782	1.00	0.00	C
ATOM	3134	HB2	ASP	200	46.813	47.422	35.855	1.00	0.00	H
ATOM	3135	HB3	ASP	200	48.296	47.117	36.681	1.00	0.00	H
ATOM	3136	CG	ASP	200	48.089	49.086	35.900	1.00	0.00	C
ATOM	3137	OD1	ASP	200	47.638	49.613	36.950	1.00	0.00	O
ATOM	3138	OD2	ASP	200	48.315	49.839	34.931	1.00	0.00	O
ATOM	3139	C	ASP	200	48.349	47.574	33.194	1.00	0.00	C
ATOM	3140	O	ASP	200	49.383	47.730	32.538	1.00	0.00	O
ATOM	3141	N	ILE	201	47.166	47.996	32.740	1.00	0.00	N
ATOM	3142	H	ILE	201	46.367	47.893	33.352	1.00	0.00	H
ATOM	3143	CA	ILE	201	46.946	48.653	31.443	1.00	0.00	C
ATOM	3144	HA	ILE	201	47.571	48.168	30.691	1.00	0.00	H
ATOM	3145	CB	ILE	201	45.473	48.471	31.015	1.00	0.00	C
ATOM	3146	HB	ILE	201	44.843	48.808	31.839	1.00	0.00	H
ATOM	3147	CG2	ILE	201	45.138	49.328	29.779	1.00	0.00	C
ATOM	3148	HG21	ILE	201	45.172	50.390	30.027	1.00	0.00	H
ATOM	3149	HG22	ILE	201	44.138	49.108	29.413	1.00	0.00	H
ATOM	3150	HG23	ILE	201	45.857	49.127	28.984	1.00	0.00	H
ATOM	3151	CG1	ILE	201	45.175	46.976	30.746	1.00	0.00	C
ATOM	3152	HG12	ILE	201	45.592	46.688	29.781	1.00	0.00	H
ATOM	3153	HG13	ILE	201	45.653	46.355	31.503	1.00	0.00	H
ATOM	3154	CD1	ILE	201	43.681	46.634	30.787	1.00	0.00	C
ATOM	3155	HD11	ILE	201	43.290	46.813	31.789	1.00	0.00	H
ATOM	3156	HD12	ILE	201	43.542	45.584	30.537	1.00	0.00	H
ATOM	3157	HD13	ILE	201	43.128	47.238	30.074	1.00	0.00	H
ATOM	3158	C	ILE	201	47.343	50.135	31.516	1.00	0.00	C
ATOM	3159	O	ILE	201	46.921	50.853	32.431	1.00	0.00	O
ATOM	3160	N	LYS	202	48.108	50.639	30.538	1.00	0.00	N
ATOM	3161	H	LYS	202	48.361	50.025	29.767	1.00	0.00	H
ATOM	3162	CA	LYS	202	48.525	52.057	30.495	1.00	0.00	C
ATOM	3163	HA	LYS	202	49.081	52.280	31.406	1.00	0.00	H
ATOM	3164	CB	LYS	202	49.429	52.310	29.274	1.00	0.00	C
ATOM	3165	HB2	LYS	202	50.293	51.647	29.329	1.00	0.00	H
ATOM	3166	HB3	LYS	202	48.865	52.071	28.373	1.00	0.00	H
ATOM	3167	CG	LYS	202	49.919	53.772	29.191	1.00	0.00	C
ATOM	3168	HG2	LYS	202	49.084	54.471	29.239	1.00	0.00	H
ATOM	3169	HG3	LYS	202	50.573	53.964	30.043	1.00	0.00	H



ATOM	3170	CD	LYS	202	50.698	54.053	27.901	1.00	0.00	C
ATOM	3171	HD2	LYS	202	51.257	54.984	28.020	1.00	0.00	H
ATOM	3172	HD3	LYS	202	51.406	53.239	27.763	1.00	0.00	H
ATOM	3173	CE	LYS	202	49.804	54.171	26.656	1.00	0.00	C
ATOM	3174	HE2	LYS	202	49.194	53.269	26.577	1.00	0.00	H
ATOM	3175	HE3	LYS	202	49.130	55.026	26.766	1.00	0.00	H
ATOM	3176	NZ	LYS	202	50.615	54.319	25.422	1.00	0.00	N
ATOM	3177	HZ1	LYS	202	50.275	53.695	24.690	1.00	0.00	H
ATOM	3178	HZ2	LYS	202	51.582	54.045	25.589	1.00	0.00	H
ATOM	3179	HZ3	LYS	202	50.642	55.280	25.085	1.00	0.00	H
ATOM	3180	C	LYS	202	47.315	52.999	30.441	1.00	0.00	C
ATOM	3181	O	LYS	202	46.571	52.975	29.462	1.00	0.00	O
ATOM	3182	N	GLY	203	47.156	53.867	31.445	1.00	0.00	N
ATOM	3183	H	GLY	203	47.740	53.786	32.280	1.00	0.00	H
ATOM	3184	CA	GLY	203	46.171	54.954	31.424	1.00	0.00	C
ATOM	3185	HA2	GLY	203	46.193	55.459	32.390	1.00	0.00	H
ATOM	3186	HA3	GLY	203	46.440	55.670	30.646	1.00	0.00	H
ATOM	3187	C	GLY	203	44.735	54.486	31.182	1.00	0.00	C
ATOM	3188	O	GLY	203	44.020	55.108	30.393	1.00	0.00	O
ATOM	3189	N	PHE	204	44.322	53.390	31.829	1.00	0.00	N
ATOM	3190	H	PHE	204	44.926	53.047	32.571	1.00	0.00	H
ATOM	3191	CA	PHE	204	43.007	52.750	31.701	1.00	0.00	C
ATOM	3192	HA	PHE	204	42.903	52.374	30.685	1.00	0.00	H
ATOM	3193	CB	PHE	204	42.940	51.559	32.672	1.00	0.00	C
ATOM	3194	HB2	PHE	204	43.783	50.897	32.472	1.00	0.00	H
ATOM	3195	HB3	PHE	204	43.057	51.924	33.694	1.00	0.00	H
ATOM	3196	CG	PHE	204	41.657	50.749	32.601	1.00	0.00	C
ATOM	3197	CD1	PHE	204	41.567	49.636	31.744	1.00	0.00	C
ATOM	3198	HD1	PHE	204	42.414	49.354	31.139	1.00	0.00	H
ATOM	3199	CE1	PHE	204	40.381	48.882	31.681	1.00	0.00	C
ATOM	3200	HE1	PHE	204	40.320	48.028	31.023	1.00	0.00	H
ATOM	3201	CZ	PHE	204	39.279	49.238	32.478	1.00	0.00	C
ATOM	3202	HZ	PHE	204	38.369	48.658	32.432	1.00	0.00	H
ATOM	3203	CE2	PHE	204	39.363	50.350	33.334	1.00	0.00	C
ATOM	3204	HE2	PHE	204	38.518	50.629	33.944	1.00	0.00	H
ATOM	3205	CD2	PHE	204	40.552	51.099	33.401	1.00	0.00	C
ATOM	3206	HD2	PHE	204	40.617	51.947	34.069	1.00	0.00	H
ATOM	3207	C	PHE	204	41.849	53.728	31.953	1.00	0.00	C
ATOM	3208	O	PHE	204	40.799	53.616	31.316	1.00	0.00	O
ATOM	3209	N	THR	205	42.075	54.758	32.779	1.00	0.00	N
ATOM	3210	H	THR	205	42.939	54.759	33.317	1.00	0.00	H
ATOM	3211	CA	THR	205	41.207	55.942	32.903	1.00	0.00	C
ATOM	3212	HA	THR	205	40.347	55.695	33.524	1.00	0.00	H
ATOM	3213	CB	THR	205	41.991	57.063	33.603	1.00	0.00	C
ATOM	3214	HB	THR	205	42.975	57.158	33.142	1.00	0.00	H
ATOM	3215	CG2	THR	205	41.311	58.427	33.546	1.00	0.00	C
ATOM	3216	HG21	THR	205	41.759	59.087	34.289	1.00	0.00	H
ATOM	3217	HG22	THR	205	40.246	58.315	33.741	1.00	0.00	H
ATOM	3218	HG23	THR	205	41.457	58.863	32.558	1.00	0.00	H
ATOM	3219	OG1	THR	205	42.158	56.722	34.953	1.00	0.00	O
ATOM	3220	HG1	THR	205	42.985	56.169	34.990	1.00	0.00	H
ATOM	3221	C	THR	205	40.694	56.445	31.548	1.00	0.00	C

ATOM	3222	O	THR	205	39.487	56.615	31.365	1.00	0.00	O
ATOM	3223	N	SER	206	41.598	56.597	30.575	1.00	0.00	N
ATOM	3224	H	SER	206	42.556	56.346	30.784	1.00	0.00	H
ATOM	3225	CA	SER	206	41.328	57.119	29.228	1.00	0.00	C
ATOM	3226	HA	SER	206	40.913	58.123	29.315	1.00	0.00	H
ATOM	3227	CB	SER	206	42.622	57.189	28.400	1.00	0.00	C
ATOM	3228	HB2	SER	206	42.871	56.197	28.017	1.00	0.00	H
ATOM	3229	HB3	SER	206	42.464	57.855	27.551	1.00	0.00	H
ATOM	3230	OG	SER	206	43.714	57.653	29.166	1.00	0.00	O
ATOM	3231	HG	SER	206	44.112	56.874	29.585	1.00	0.00	H
ATOM	3232	C	SER	206	40.340	56.251	28.450	1.00	0.00	C
ATOM	3233	O	SER	206	39.516	56.775	27.707	1.00	0.00	O
ATOM	3234	N	LEU	207	40.415	54.930	28.638	1.00	0.00	N
ATOM	3235	H	LEU	207	41.080	54.593	29.323	1.00	0.00	H
ATOM	3236	CA	LEU	207	39.499	53.952	28.051	1.00	0.00	C
ATOM	3237	HA	LEU	207	39.360	54.178	26.992	1.00	0.00	H
ATOM	3238	CB	LEU	207	40.100	52.535	28.196	1.00	0.00	C
ATOM	3239	HB2	LEU	207	40.016	52.232	29.240	1.00	0.00	H
ATOM	3240	HB3	LEU	207	39.494	51.843	27.610	1.00	0.00	H
ATOM	3241	CG	LEU	207	41.578	52.375	27.783	1.00	0.00	C
ATOM	3242	HG	LEU	207	42.197	53.082	28.335	1.00	0.00	H
ATOM	3243	CD1	LEU	207	42.062	50.970	28.132	1.00	0.00	C
ATOM	3244	HD11	LEU	207	41.960	50.804	29.203	1.00	0.00	H
ATOM	3245	HD12	LEU	207	43.111	50.863	27.856	1.00	0.00	H
ATOM	3246	HD13	LEU	207	41.468	50.230	27.601	1.00	0.00	H
ATOM	3247	CD2	LEU	207	41.789	52.594	26.287	1.00	0.00	C
ATOM	3248	HD21	LEU	207	41.238	51.845	25.721	1.00	0.00	H
ATOM	3249	HD22	LEU	207	41.456	53.591	26.002	1.00	0.00	H
ATOM	3250	HD23	LEU	207	42.850	52.504	26.051	1.00	0.00	H
ATOM	3251	C	LEU	207	38.126	54.038	28.736	1.00	0.00	C
ATOM	3252	O	LEU	207	37.094	54.036	28.066	1.00	0.00	O
ATOM	3253	N	SER	208	38.130	54.155	30.071	1.00	0.00	N
ATOM	3254	H	SER	208	39.031	54.143	30.537	1.00	0.00	H
ATOM	3255	CA	SER	208	36.922	54.159	30.905	1.00	0.00	C
ATOM	3256	HA	SER	208	36.310	53.323	30.580	1.00	0.00	H
ATOM	3257	CB	SER	208	37.293	53.907	32.373	1.00	0.00	C
ATOM	3258	HB2	SER	208	36.393	53.606	32.910	1.00	0.00	H
ATOM	3259	HB3	SER	208	38.009	53.085	32.423	1.00	0.00	H
ATOM	3260	OG	SER	208	37.839	55.040	33.025	1.00	0.00	O
ATOM	3261	HG	SER	208	38.373	55.552	32.392	1.00	0.00	H
ATOM	3262	C	SER	208	36.037	55.401	30.751	1.00	0.00	C
ATOM	3263	O	SER	208	34.828	55.289	30.921	1.00	0.00	O
ATOM	3264	N	ASP	209	36.593	56.561	30.378	1.00	0.00	N
ATOM	3265	H	ASP	209	37.603	56.627	30.350	1.00	0.00	H
ATOM	3266	CA	ASP	209	35.783	57.752	30.075	1.00	0.00	C
ATOM	3267	HA	ASP	209	35.109	57.964	30.907	1.00	0.00	H
ATOM	3268	CB	ASP	209	36.674	58.975	29.814	1.00	0.00	C
ATOM	3269	HB2	ASP	209	37.352	58.719	29.001	1.00	0.00	H
ATOM	3270	HB3	ASP	209	36.031	59.786	29.470	1.00	0.00	H
ATOM	3271	CG	ASP	209	37.517	59.559	30.933	1.00	0.00	C
ATOM	3272	OD1	ASP	209	37.203	59.419	32.136	1.00	0.00	O
ATOM	3273	OD2	ASP	209	38.456	60.286	30.535	1.00	0.00	O

ATOM	3274	C	ASP	209	34.947	57.609	28.789	1.00	0.00	C
ATOM	3275	O	ASP	209	33.816	58.095	28.717	1.00	0.00	O
ATOM	3276	N	LYS	210	35.563	57.084	27.717	1.00	0.00	N
ATOM	3277	H	LYS	210	36.463	56.643	27.865	1.00	0.00	H
ATOM	3278	CA	LYS	210	35.142	57.391	26.335	1.00	0.00	C
ATOM	3279	HA	LYS	210	34.490	58.265	26.353	1.00	0.00	H
ATOM	3280	CB	LYS	210	36.369	57.731	25.459	1.00	0.00	C
ATOM	3281	HB2	LYS	210	36.937	56.815	25.291	1.00	0.00	H
ATOM	3282	HB3	LYS	210	36.007	58.067	24.485	1.00	0.00	H
ATOM	3283	CG	LYS	210	37.356	58.792	25.990	1.00	0.00	C
ATOM	3284	HG2	LYS	210	37.866	58.382	26.855	1.00	0.00	H
ATOM	3285	HG3	LYS	210	38.106	58.965	25.218	1.00	0.00	H
ATOM	3286	CD	LYS	210	36.738	60.143	26.385	1.00	0.00	C
ATOM	3287	HD2	LYS	210	36.151	60.514	25.543	1.00	0.00	H
ATOM	3288	HD3	LYS	210	36.058	60.010	27.224	1.00	0.00	H
ATOM	3289	CE	LYS	210	37.797	61.210	26.734	1.00	0.00	C
ATOM	3290	HE2	LYS	210	38.371	61.425	25.828	1.00	0.00	H
ATOM	3291	HE3	LYS	210	37.282	62.133	27.014	1.00	0.00	H
ATOM	3292	NZ	LYS	210	38.745	60.828	27.817	1.00	0.00	N
ATOM	3293	HZ1	LYS	210	39.237	59.976	27.596	1.00	0.00	H
ATOM	3294	HZ2	LYS	210	38.316	60.710	28.737	1.00	0.00	H
ATOM	3295	HZ3	LYS	210	39.436	61.570	27.929	1.00	0.00	H
ATOM	3296	C	LYS	210	34.313	56.290	25.665	1.00	0.00	C
ATOM	3297	O	LYS	210	33.622	56.581	24.686	1.00	0.00	O
ATOM	3298	N	MET	211	34.408	55.048	26.144	1.00	0.00	N
ATOM	3299	H	MET	211	34.922	54.910	27.003	1.00	0.00	H
ATOM	3300	CA	MET	211	34.038	53.852	25.373	1.00	0.00	C
ATOM	3301	HA	MET	211	33.734	54.181	24.382	1.00	0.00	H
ATOM	3302	CB	MET	211	35.274	52.958	25.190	1.00	0.00	C
ATOM	3303	HB2	MET	211	35.564	52.545	26.158	1.00	0.00	H
ATOM	3304	HB3	MET	211	35.021	52.126	24.533	1.00	0.00	H
ATOM	3305	CG	MET	211	36.477	53.714	24.604	1.00	0.00	C
ATOM	3306	HG2	MET	211	36.821	54.443	25.338	1.00	0.00	H
ATOM	3307	HG3	MET	211	37.292	53.011	24.469	1.00	0.00	H
ATOM	3308	SD	MET	211	36.209	54.586	23.031	1.00	0.00	S
ATOM	3309	CE	MET	211	35.730	53.230	21.926	1.00	0.00	C
ATOM	3310	HE1	MET	211	36.504	52.464	21.923	1.00	0.00	H
ATOM	3311	HE2	MET	211	34.785	52.799	22.255	1.00	0.00	H
ATOM	3312	HE3	MET	211	35.608	53.620	20.915	1.00	0.00	H
ATOM	3313	C	MET	211	32.872	53.058	25.992	1.00	0.00	C
ATOM	3314	O	MET	211	32.740	53.029	27.216	1.00	0.00	O
ATOM	3315	N	PRO	212	32.038	52.361	25.187	1.00	0.00	N
ATOM	3316	CD	PRO	212	31.984	52.395	23.729	1.00	0.00	C
ATOM	3317	HD2	PRO	212	32.714	51.695	23.319	1.00	0.00	H
ATOM	3318	HD3	PRO	212	32.154	53.396	23.331	1.00	0.00	H
ATOM	3319	CG	PRO	212	30.571	51.949	23.361	1.00	0.00	C
ATOM	3320	HG2	PRO	212	30.533	51.470	22.384	1.00	0.00	H
ATOM	3321	HG3	PRO	212	29.895	52.804	23.394	1.00	0.00	H
ATOM	3322	CB	PRO	212	30.220	50.972	24.478	1.00	0.00	C
ATOM	3323	HB2	PRO	212	30.644	49.994	24.243	1.00	0.00	H
ATOM	3324	HB3	PRO	212	29.142	50.897	24.622	1.00	0.00	H
ATOM	3325	CA	PRO	212	30.916	51.576	25.703	1.00	0.00	C

ATOM	3326	HA	PRO	212	30.228	52.264	26.195	1.00	0.00	H
ATOM	3327	C	PRO	212	31.330	50.481	26.696	1.00	0.00	C
ATOM	3328	O	PRO	212	32.341	49.806	26.516	1.00	0.00	O
ATOM	3329	N	LEU	213	30.479	50.229	27.694	1.00	0.00	N
ATOM	3330	H	LEU	213	29.680	50.840	27.757	1.00	0.00	H
ATOM	3331	CA	LEU	213	30.732	49.342	28.843	1.00	0.00	C
ATOM	3332	HA	LEU	213	31.504	49.793	29.471	1.00	0.00	H
ATOM	3333	CB	LEU	213	29.429	49.205	29.659	1.00	0.00	C
ATOM	3334	HB2	LEU	213	28.729	48.604	29.076	1.00	0.00	H
ATOM	3335	HB3	LEU	213	29.643	48.654	30.577	1.00	0.00	H
ATOM	3336	CG	LEU	213	28.722	50.523	30.020	1.00	0.00	C
ATOM	3337	HG	LEU	213	28.641	51.163	29.143	1.00	0.00	H
ATOM	3338	CD1	LEU	213	27.298	50.198	30.460	1.00	0.00	C
ATOM	3339	HD11	LEU	213	26.761	49.701	29.651	1.00	0.00	H
ATOM	3340	HD12	LEU	213	26.768	51.112	30.714	1.00	0.00	H
ATOM	3341	HD13	LEU	213	27.329	49.528	31.315	1.00	0.00	H
ATOM	3342	CD2	LEU	213	29.485	51.280	31.105	1.00	0.00	C
ATOM	3343	HD21	LEU	213	29.395	50.768	32.063	1.00	0.00	H
ATOM	3344	HD22	LEU	213	30.538	51.368	30.837	1.00	0.00	H
ATOM	3345	HD23	LEU	213	29.093	52.291	31.191	1.00	0.00	H
ATOM	3346	C	LEU	213	31.226	47.942	28.444	1.00	0.00	C
ATOM	3347	O	LEU	213	32.281	47.485	28.880	1.00	0.00	O
ATOM	3348	N	THR	214	30.490	47.268	27.554	1.00	0.00	N
ATOM	3349	H	THR	214	29.643	47.697	27.217	1.00	0.00	H
ATOM	3350	CA	THR	214	30.882	45.941	27.051	1.00	0.00	C
ATOM	3351	HA	THR	214	31.128	45.306	27.904	1.00	0.00	H
ATOM	3352	CB	THR	214	29.711	45.269	26.310	1.00	0.00	C
ATOM	3353	HB	THR	214	29.274	45.973	25.601	1.00	0.00	H
ATOM	3354	CG2	THR	214	30.074	43.984	25.561	1.00	0.00	C
ATOM	3355	HG21	THR	214	29.165	43.506	25.196	1.00	0.00	H
ATOM	3356	HG22	THR	214	30.595	43.298	26.230	1.00	0.00	H
ATOM	3357	HG23	THR	214	30.709	44.212	24.707	1.00	0.00	H
ATOM	3358	OG1	THR	214	28.736	44.888	27.253	1.00	0.00	O
ATOM	3359	HG1	THR	214	28.296	45.666	27.604	1.00	0.00	H
ATOM	3360	C	THR	214	32.147	46.008	26.189	1.00	0.00	C
ATOM	3361	O	THR	214	32.897	45.041	26.140	1.00	0.00	O
ATOM	3362	N	HID	215	32.447	47.135	25.536	1.00	0.00	N
ATOM	3363	H	HID	215	31.893	47.964	25.707	1.00	0.00	H
ATOM	3364	CA	HID	215	33.696	47.307	24.783	1.00	0.00	C
ATOM	3365	HA	HID	215	33.917	46.371	24.275	1.00	0.00	H
ATOM	3366	CB	HID	215	33.509	48.366	23.678	1.00	0.00	C
ATOM	3367	HB2	HID	215	33.169	49.304	24.116	1.00	0.00	H
ATOM	3368	HB3	HID	215	34.478	48.549	23.212	1.00	0.00	H
ATOM	3369	CG	HID	215	32.543	47.943	22.585	1.00	0.00	C
ATOM	3370	ND1	HID	215	32.207	48.652	21.447	1.00	0.00	N
ATOM	3371	HD1	HID	215	32.487	49.599	21.199	1.00	0.00	H
ATOM	3372	CE1	HID	215	31.414	47.874	20.687	1.00	0.00	C
ATOM	3373	HE1	HID	215	30.998	48.164	19.729	1.00	0.00	H
ATOM	3374	NE2	HID	215	31.212	46.681	21.277	1.00	0.00	N
ATOM	3375	CD2	HID	215	31.902	46.733	22.488	1.00	0.00	C
ATOM	3376	HD2	HID	215	31.950	45.930	23.206	1.00	0.00	H
ATOM	3377	C	HID	215	34.908	47.551	25.701	1.00	0.00	C

ATOM	3378	O	HID	215	36.010	47.115	25.369	1.00	0.00	O
ATOM	3379	N	LEU	216	34.704	48.129	26.891	1.00	0.00	N
ATOM	3380	H	LEU	216	33.792	48.527	27.087	1.00	0.00	H
ATOM	3381	CA	LEU	216	35.719	48.173	27.947	1.00	0.00	C
ATOM	3382	HA	LEU	216	36.647	48.513	27.488	1.00	0.00	H
ATOM	3383	CB	LEU	216	35.288	49.206	29.004	1.00	0.00	C
ATOM	3384	HB2	LEU	216	34.983	50.122	28.495	1.00	0.00	H
ATOM	3385	HB3	LEU	216	34.420	48.819	29.540	1.00	0.00	H
ATOM	3386	CG	LEU	216	36.377	49.562	30.034	1.00	0.00	C
ATOM	3387	HG	LEU	216	36.704	48.662	30.554	1.00	0.00	H
ATOM	3388	CD1	LEU	216	37.588	50.238	29.384	1.00	0.00	C
ATOM	3389	HD11	LEU	216	38.121	49.528	28.752	1.00	0.00	H
ATOM	3390	HD12	LEU	216	38.277	50.584	30.154	1.00	0.00	H
ATOM	3391	HD13	LEU	216	37.262	51.090	28.788	1.00	0.00	H
ATOM	3392	CD2	LEU	216	35.797	50.536	31.058	1.00	0.00	C
ATOM	3393	HD21	LEU	216	35.386	51.405	30.547	1.00	0.00	H
ATOM	3394	HD22	LEU	216	34.991	50.058	31.609	1.00	0.00	H
ATOM	3395	HD23	LEU	216	36.568	50.846	31.763	1.00	0.00	H
ATOM	3396	C	LEU	216	35.992	46.775	28.538	1.00	0.00	C
ATOM	3397	O	LEU	216	37.154	46.406	28.705	1.00	0.00	O
ATOM	3398	N	LEU	217	34.961	45.946	28.762	1.00	0.00	N
ATOM	3399	H	LEU	217	34.020	46.315	28.679	1.00	0.00	H
ATOM	3400	CA	LEU	217	35.151	44.533	29.138	1.00	0.00	C
ATOM	3401	HA	LEU	217	35.873	44.498	29.951	1.00	0.00	H
ATOM	3402	CB	LEU	217	33.840	43.897	29.629	1.00	0.00	C
ATOM	3403	HB2	LEU	217	33.039	44.152	28.935	1.00	0.00	H
ATOM	3404	HB3	LEU	217	33.955	42.811	29.615	1.00	0.00	H
ATOM	3405	CG	LEU	217	33.435	44.304	31.056	1.00	0.00	C
ATOM	3406	HG	LEU	217	33.312	45.384	31.098	1.00	0.00	H
ATOM	3407	CD1	LEU	217	32.103	43.646	31.394	1.00	0.00	C
ATOM	3408	HD11	LEU	217	31.339	43.979	30.694	1.00	0.00	H
ATOM	3409	HD12	LEU	217	31.820	43.920	32.409	1.00	0.00	H
ATOM	3410	HD13	LEU	217	32.198	42.559	31.339	1.00	0.00	H
ATOM	3411	CD2	LEU	217	34.440	43.863	32.128	1.00	0.00	C
ATOM	3412	HD21	LEU	217	34.592	42.784	32.069	1.00	0.00	H
ATOM	3413	HD22	LEU	217	35.389	44.376	32.006	1.00	0.00	H
ATOM	3414	HD23	LEU	217	34.048	44.104	33.117	1.00	0.00	H
ATOM	3415	C	LEU	217	35.774	43.677	28.024	1.00	0.00	C
ATOM	3416	O	LEU	217	36.689	42.910	28.313	1.00	0.00	O
ATOM	3417	N	LYS	218	35.399	43.859	26.746	1.00	0.00	N
ATOM	3418	H	LYS	218	34.592	44.448	26.570	1.00	0.00	H
ATOM	3419	CA	LYS	218	36.073	43.205	25.598	1.00	0.00	C
ATOM	3420	HA	LYS	218	35.960	42.123	25.695	1.00	0.00	H
ATOM	3421	CB	LYS	218	35.477	43.662	24.250	1.00	0.00	C
ATOM	3422	HB2	LYS	218	35.356	44.743	24.275	1.00	0.00	H
ATOM	3423	HB3	LYS	218	36.205	43.445	23.465	1.00	0.00	H
ATOM	3424	CG	LYS	218	34.159	43.000	23.810	1.00	0.00	C
ATOM	3425	HG2	LYS	218	34.301	41.922	23.721	1.00	0.00	H
ATOM	3426	HG3	LYS	218	33.376	43.190	24.541	1.00	0.00	H
ATOM	3427	CD	LYS	218	33.753	43.581	22.442	1.00	0.00	C
ATOM	3428	HD2	LYS	218	33.739	44.667	22.513	1.00	0.00	H
ATOM	3429	HD3	LYS	218	34.510	43.305	21.704	1.00	0.00	H

ATOM	3430	CE	LYS	218	32.386	43.093	21.944	1.00	0.00	C
ATOM	3431	HE2	LYS	218	32.457	42.022	21.728	1.00	0.00	H
ATOM	3432	HE3	LYS	218	31.639	43.228	22.732	1.00	0.00	H
ATOM	3433	NZ	LYS	218	31.975	43.830	20.720	1.00	0.00	N
ATOM	3434	HZ1	LYS	218	31.189	43.389	20.244	1.00	0.00	H
ATOM	3435	HZ2	LYS	218	32.738	43.861	20.043	1.00	0.00	H
ATOM	3436	HZ3	LYS	218	31.719	44.796	20.910	1.00	0.00	H
ATOM	3437	C	LYS	218	37.583	43.484	25.559	1.00	0.00	C
ATOM	3438	O	LYS	218	38.311	42.728	24.914	1.00	0.00	O
ATOM	3439	N	LEU	219	38.055	44.562	26.184	1.00	0.00	N
ATOM	3440	H	LEU	219	37.385	45.171	26.633	1.00	0.00	H
ATOM	3441	CA	LEU	219	39.475	44.866	26.362	1.00	0.00	C
ATOM	3442	HA	LEU	219	40.044	44.415	25.547	1.00	0.00	H
ATOM	3443	CB	LEU	219	39.627	46.392	26.244	1.00	0.00	C
ATOM	3444	HB2	LEU	219	39.244	46.667	25.260	1.00	0.00	H
ATOM	3445	HB3	LEU	219	38.994	46.891	26.978	1.00	0.00	H
ATOM	3446	CG	LEU	219	41.066	46.925	26.377	1.00	0.00	C
ATOM	3447	HG	LEU	219	41.771	46.200	25.969	1.00	0.00	H
ATOM	3448	CD1	LEU	219	41.182	48.216	25.571	1.00	0.00	C
ATOM	3449	HD11	LEU	219	41.000	48.007	24.518	1.00	0.00	H
ATOM	3450	HD12	LEU	219	42.182	48.639	25.664	1.00	0.00	H
ATOM	3451	HD13	LEU	219	40.451	48.942	25.925	1.00	0.00	H
ATOM	3452	CD2	LEU	219	41.434	47.247	27.826	1.00	0.00	C
ATOM	3453	HD21	LEU	219	40.687	47.904	28.272	1.00	0.00	H
ATOM	3454	HD22	LEU	219	41.507	46.333	28.411	1.00	0.00	H
ATOM	3455	HD23	LEU	219	42.403	47.743	27.856	1.00	0.00	H
ATOM	3456	C	LEU	219	40.028	44.262	27.665	1.00	0.00	C
ATOM	3457	O	LEU	219	41.051	43.580	27.633	1.00	0.00	O
ATOM	3458	N	LEU	220	39.348	44.476	28.795	1.00	0.00	N
ATOM	3459	H	LEU	220	38.511	45.048	28.749	1.00	0.00	H
ATOM	3460	CA	LEU	220	39.814	44.054	30.119	1.00	0.00	C
ATOM	3461	HA	LEU	220	40.850	44.381	30.218	1.00	0.00	H
ATOM	3462	CB	LEU	220	38.971	44.779	31.183	1.00	0.00	C
ATOM	3463	HB2	LEU	220	39.008	45.852	30.993	1.00	0.00	H
ATOM	3464	HB3	LEU	220	37.934	44.455	31.085	1.00	0.00	H
ATOM	3465	CG	LEU	220	39.431	44.515	32.628	1.00	0.00	C
ATOM	3466	HG	LEU	220	39.385	43.448	32.843	1.00	0.00	H
ATOM	3467	CD1	LEU	220	40.852	45.019	32.875	1.00	0.00	C
ATOM	3468	HD11	LEU	220	41.569	44.417	32.318	1.00	0.00	H
ATOM	3469	HD12	LEU	220	41.090	44.916	33.931	1.00	0.00	H
ATOM	3470	HD13	LEU	220	40.943	46.066	32.590	1.00	0.00	H
ATOM	3471	CD2	LEU	220	38.496	45.236	33.598	1.00	0.00	C
ATOM	3472	HD21	LEU	220	38.529	46.310	33.423	1.00	0.00	H
ATOM	3473	HD22	LEU	220	37.478	44.869	33.473	1.00	0.00	H
ATOM	3474	HD23	LEU	220	38.822	45.032	34.618	1.00	0.00	H
ATOM	3475	C	LEU	220	39.811	42.528	30.316	1.00	0.00	C
ATOM	3476	O	LEU	220	40.824	41.971	30.731	1.00	0.00	O
ATOM	3477	N	GLU	221	38.716	41.839	29.973	1.00	0.00	N
ATOM	3478	H	GLU	221	37.925	42.340	29.579	1.00	0.00	H
ATOM	3479	CA	GLU	221	38.650	40.366	29.998	1.00	0.00	C
ATOM	3480	HA	GLU	221	38.892	40.005	31.000	1.00	0.00	H
ATOM	3481	CB	GLU	221	37.243	39.851	29.617	1.00	0.00	C

ATOM	3482	HB2	GLU	221	36.999	40.183	28.606	1.00	0.00	H
ATOM	3483	HB3	GLU	221	37.287	38.761	29.604	1.00	0.00	H
ATOM	3484	CG	GLU	221	36.104	40.270	30.564	1.00	0.00	C
ATOM	3485	HG2	GLU	221	36.405	40.059	31.593	1.00	0.00	H
ATOM	3486	HG3	GLU	221	35.937	41.345	30.480	1.00	0.00	H
ATOM	3487	CD	GLU	221	34.803	39.502	30.255	1.00	0.00	C
ATOM	3488	OE1	GLU	221	33.851	40.085	29.686	1.00	0.00	O
ATOM	3489	OE2	GLU	221	34.717	38.296	30.589	1.00	0.00	O
ATOM	3490	C	GLU	221	39.682	39.760	29.035	1.00	0.00	C
ATOM	3491	O	GLU	221	40.334	38.774	29.363	1.00	0.00	O
ATOM	3492	N	GLN	222	39.893	40.378	27.865	1.00	0.00	N
ATOM	3493	H	GLN	222	39.361	41.212	27.667	1.00	0.00	H
ATOM	3494	CA	GLN	222	40.869	39.900	26.882	1.00	0.00	C
ATOM	3495	HA	GLN	222	40.644	38.851	26.684	1.00	0.00	H
ATOM	3496	CB	GLN	222	40.703	40.689	25.571	1.00	0.00	C
ATOM	3497	HB2	GLN	222	39.691	40.525	25.200	1.00	0.00	H
ATOM	3498	HB3	GLN	222	40.820	41.752	25.781	1.00	0.00	H
ATOM	3499	CG	GLN	222	41.692	40.319	24.453	1.00	0.00	C
ATOM	3500	HG2	GLN	222	41.536	40.998	23.615	1.00	0.00	H
ATOM	3501	HG3	GLN	222	42.718	40.447	24.794	1.00	0.00	H
ATOM	3502	CD	GLN	222	41.493	38.894	23.951	1.00	0.00	C
ATOM	3503	OE1	GLN	222	40.819	38.659	22.962	1.00	0.00	O
ATOM	3504	NE2	GLN	222	42.039	37.903	24.621	1.00	0.00	N
ATOM	3505	HE21	GLN	222	41.836	36.972	24.301	1.00	0.00	H
ATOM	3506	HE22	GLN	222	42.563	38.081	25.471	1.00	0.00	H
ATOM	3507	C	GLN	222	42.309	39.961	27.415	1.00	0.00	C
ATOM	3508	O	GLN	222	43.070	39.016	27.203	1.00	0.00	O
ATOM	3509	N	PHE	223	42.675	41.042	28.113	1.00	0.00	N
ATOM	3510	H	PHE	223	42.001	41.792	28.223	1.00	0.00	H
ATOM	3511	CA	PHE	223	43.963	41.174	28.799	1.00	0.00	C
ATOM	3512	HA	PHE	223	44.767	40.973	28.090	1.00	0.00	H
ATOM	3513	CB	PHE	223	44.100	42.622	29.298	1.00	0.00	C
ATOM	3514	HB2	PHE	223	44.173	43.284	28.434	1.00	0.00	H
ATOM	3515	HB3	PHE	223	43.190	42.896	29.835	1.00	0.00	H
ATOM	3516	CG	PHE	223	45.290	42.883	30.205	1.00	0.00	C
ATOM	3517	CD1	PHE	223	46.599	42.668	29.734	1.00	0.00	C
ATOM	3518	HD1	PHE	223	46.765	42.310	28.729	1.00	0.00	H
ATOM	3519	CE1	PHE	223	47.699	42.912	30.576	1.00	0.00	C
ATOM	3520	HE1	PHE	223	48.703	42.736	30.221	1.00	0.00	H
ATOM	3521	CZ	PHE	223	47.498	43.382	31.885	1.00	0.00	C
ATOM	3522	HZ	PHE	223	48.345	43.575	32.530	1.00	0.00	H
ATOM	3523	CE2	PHE	223	46.193	43.601	32.356	1.00	0.00	C
ATOM	3524	HE2	PHE	223	46.040	43.975	33.359	1.00	0.00	H
ATOM	3525	CD2	PHE	223	45.091	43.345	31.522	1.00	0.00	C
ATOM	3526	HD2	PHE	223	44.092	43.518	31.897	1.00	0.00	H
ATOM	3527	C	PHE	223	44.106	40.157	29.942	1.00	0.00	C
ATOM	3528	O	PHE	223	45.075	39.398	29.986	1.00	0.00	O
ATOM	3529	N	PHE	224	43.114	40.091	30.833	1.00	0.00	N
ATOM	3530	H	PHE	224	42.331	40.731	30.734	1.00	0.00	H
ATOM	3531	CA	PHE	224	43.117	39.201	31.996	1.00	0.00	C
ATOM	3532	HA	PHE	224	44.064	39.309	32.518	1.00	0.00	H
ATOM	3533	CB	PHE	224	41.968	39.621	32.925	1.00	0.00	C

ATOM	3534	HB2 PHE	224	41.066	39.754	32.324	1.00	0.00	H
ATOM	3535	HB3 PHE	224	41.755	38.800	33.605	1.00	0.00	H
ATOM	3536	CG PHE	224	42.182	40.869	33.774	1.00	0.00	C
ATOM	3537	CD1 PHE	224	43.457	41.453	33.968	1.00	0.00	C
ATOM	3538	HD1 PHE	224	44.336	41.081	33.466	1.00	0.00	H
ATOM	3539	CE1 PHE	224	43.615	42.544	34.835	1.00	0.00	C
ATOM	3540	HE1 PHE	224	44.590	42.988	34.979	1.00	0.00	H
ATOM	3541	CZ PHE	224	42.504	43.068	35.511	1.00	0.00	C
ATOM	3542	HZ PHE	224	42.622	43.904	36.182	1.00	0.00	H
ATOM	3543	CE2 PHE	224	41.234	42.521	35.298	1.00	0.00	C
ATOM	3544	HE2 PHE	224	40.387	42.973	35.785	1.00	0.00	H
ATOM	3545	CD2 PHE	224	41.072	41.419	34.440	1.00	0.00	C
ATOM	3546	HD2 PHE	224	40.092	40.990	34.291	1.00	0.00	H
ATOM	3547	C PHE	224	43.041	37.706	31.666	1.00	0.00	C
ATOM	3548	O PHE	224	43.526	36.902	32.465	1.00	0.00	O
ATOM	3549	N GLU	225	42.485	37.315	30.519	1.00	0.00	N
ATOM	3550	H GLU	225	41.962	37.999	29.978	1.00	0.00	H
ATOM	3551	CA GLU	225	42.522	35.934	30.028	1.00	0.00	C
ATOM	3552	HA GLU	225	42.365	35.267	30.874	1.00	0.00	H
ATOM	3553	CB GLU	225	41.351	35.711	29.052	1.00	0.00	C
ATOM	3554	HB2 GLU	225	40.441	36.039	29.558	1.00	0.00	H
ATOM	3555	HB3 GLU	225	41.485	36.326	28.161	1.00	0.00	H
ATOM	3556	CG GLU	225	41.162	34.243	28.638	1.00	0.00	C
ATOM	3557	HG2 GLU	225	41.743	34.044	27.734	1.00	0.00	H
ATOM	3558	HG3 GLU	225	41.545	33.596	29.431	1.00	0.00	H
ATOM	3559	CD GLU	225	39.678	33.907	28.416	1.00	0.00	C
ATOM	3560	OE1 GLU	225	39.180	34.021	27.274	1.00	0.00	O
ATOM	3561	OE2 GLU	225	39.000	33.522	29.402	1.00	0.00	O
ATOM	3562	C GLU	225	43.897	35.566	29.441	1.00	0.00	C
ATOM	3563	O GLU	225	44.430	34.513	29.792	1.00	0.00	O
ATOM	3564	N ILE	226	44.526	36.455	28.653	1.00	0.00	N
ATOM	3565	H ILE	226	44.050	37.323	28.436	1.00	0.00	H
ATOM	3566	CA ILE	226	45.895	36.254	28.131	1.00	0.00	C
ATOM	3567	HA ILE	226	45.923	35.310	27.584	1.00	0.00	H
ATOM	3568	CB ILE	226	46.294	37.393	27.156	1.00	0.00	C
ATOM	3569	HB ILE	226	46.050	38.346	27.628	1.00	0.00	H
ATOM	3570	CG2 ILE	226	47.808	37.391	26.846	1.00	0.00	C
ATOM	3571	HG21 ILE	226	48.386	37.590	27.749	1.00	0.00	H
ATOM	3572	HG22 ILE	226	48.060	38.170	26.130	1.00	0.00	H
ATOM	3573	HG23 ILE	226	48.106	36.422	26.443	1.00	0.00	H
ATOM	3574	CG1 ILE	226	45.499	37.275	25.835	1.00	0.00	C
ATOM	3575	HG12 ILE	226	45.894	36.448	25.244	1.00	0.00	H
ATOM	3576	HG13 ILE	226	44.457	37.048	26.059	1.00	0.00	H
ATOM	3577	CD1 ILE	226	45.520	38.557	24.988	1.00	0.00	C
ATOM	3578	HD11 ILE	226	45.138	39.396	25.568	1.00	0.00	H
ATOM	3579	HD12 ILE	226	44.893	38.419	24.107	1.00	0.00	H
ATOM	3580	HD13 ILE	226	46.532	38.786	24.660	1.00	0.00	H
ATOM	3581	C ILE	226	46.899	36.119	29.284	1.00	0.00	C
ATOM	3582	O ILE	226	47.653	35.147	29.336	1.00	0.00	O
ATOM	3583	N VAL	227	46.881	37.059	30.237	1.00	0.00	N
ATOM	3584	H VAL	227	46.235	37.837	30.134	1.00	0.00	H
ATOM	3585	CA VAL	227	47.780	37.033	31.402	1.00	0.00	C



ATOM	3586	HA	VAL	227	48.809	37.003	31.044	1.00	0.00	H
ATOM	3587	CB	VAL	227	47.607	38.314	32.248	1.00	0.00	C
ATOM	3588	HB	VAL	227	46.546	38.463	32.455	1.00	0.00	H
ATOM	3589	CG1	VAL	227	48.351	38.265	33.590	1.00	0.00	C
ATOM	3590	HG11	VAL	227	49.406	38.041	33.428	1.00	0.00	H
ATOM	3591	HG12	VAL	227	48.266	39.227	34.097	1.00	0.00	H
ATOM	3592	HG13	VAL	227	47.916	37.504	34.236	1.00	0.00	H
ATOM	3593	CG2	VAL	227	48.140	39.534	31.486	1.00	0.00	C
ATOM	3594	HG21	VAL	227	47.622	39.647	30.534	1.00	0.00	H
ATOM	3595	HG22	VAL	227	49.208	39.426	31.300	1.00	0.00	H
ATOM	3596	HG23	VAL	227	47.970	40.436	32.074	1.00	0.00	H
ATOM	3597	C	VAL	227	47.575	35.763	32.236	1.00	0.00	C
ATOM	3598	O	VAL	227	48.554	35.176	32.692	1.00	0.00	O
ATOM	3599	N	CYS	228	46.333	35.300	32.415	1.00	0.00	N
ATOM	3600	H	CYS	228	45.565	35.789	31.976	1.00	0.00	H
ATOM	3601	CA	CYS	228	46.035	34.102	33.204	1.00	0.00	C
ATOM	3602	HA	CYS	228	46.566	34.172	34.153	1.00	0.00	H
ATOM	3603	CB	CYS	228	44.528	34.069	33.488	1.00	0.00	C
ATOM	3604	HB2	CYS	228	44.210	35.033	33.874	1.00	0.00	H
ATOM	3605	HB3	CYS	228	43.983	33.865	32.564	1.00	0.00	H
ATOM	3606	SG	CYS	228	44.140	32.793	34.718	1.00	0.00	S
ATOM	3607	HG	CYS	228	44.716	33.396	35.763	1.00	0.00	H
ATOM	3608	C	CYS	228	46.494	32.795	32.535	1.00	0.00	C
ATOM	3609	O	CYS	228	47.100	31.948	33.200	1.00	0.00	O
ATOM	3610	N	ASP	229	46.208	32.613	31.241	1.00	0.00	N
ATOM	3611	H	ASP	229	45.705	33.336	30.732	1.00	0.00	H
ATOM	3612	CA	ASP	229	46.538	31.368	30.536	1.00	0.00	C
ATOM	3613	HA	ASP	229	46.218	30.536	31.160	1.00	0.00	H
ATOM	3614	CB	ASP	229	45.766	31.286	29.205	1.00	0.00	C
ATOM	3615	HB2	ASP	229	44.757	31.671	29.362	1.00	0.00	H
ATOM	3616	HB3	ASP	229	46.256	31.919	28.462	1.00	0.00	H
ATOM	3617	CG	ASP	229	45.625	29.854	28.663	1.00	0.00	C
ATOM	3618	OD1	ASP	229	45.471	28.892	29.457	1.00	0.00	O
ATOM	3619	OD2	ASP	229	45.634	29.668	27.424	1.00	0.00	O
ATOM	3620	C	ASP	229	48.053	31.216	30.337	1.00	0.00	C
ATOM	3621	O	ASP	229	48.580	30.115	30.474	1.00	0.00	O
ATOM	3622	N	GLU	230	48.770	32.314	30.079	1.00	0.00	N
ATOM	3623	H	GLU	230	48.284	33.196	29.947	1.00	0.00	H
ATOM	3624	CA	GLU	230	50.232	32.302	29.983	1.00	0.00	C
ATOM	3625	HA	GLU	230	50.538	31.411	29.436	1.00	0.00	H
ATOM	3626	CB	GLU	230	50.701	33.532	29.189	1.00	0.00	C
ATOM	3627	HB2	GLU	230	50.299	34.438	29.646	1.00	0.00	H
ATOM	3628	HB3	GLU	230	51.780	33.597	29.255	1.00	0.00	H
ATOM	3629	CG	GLU	230	50.310	33.494	27.697	1.00	0.00	C
ATOM	3630	HG2	GLU	230	49.244	33.717	27.613	1.00	0.00	H
ATOM	3631	HG3	GLU	230	50.850	34.287	27.176	1.00	0.00	H
ATOM	3632	CD	GLU	230	50.592	32.148	27.004	1.00	0.00	C
ATOM	3633	OE1	GLU	230	51.706	31.597	27.167	1.00	0.00	O
ATOM	3634	OE2	GLU	230	49.677	31.635	26.309	1.00	0.00	O
ATOM	3635	C	GLU	230	50.923	32.167	31.350	1.00	0.00	C
ATOM	3636	O	GLU	230	51.783	31.302	31.492	1.00	0.00	O
ATOM	3637	N	THR	231	50.504	32.903	32.392	1.00	0.00	N

ATOM	3638	H	THR	231	49.770	33.585	32.243	1.00	0.00	H
ATOM	3639	CA	THR	231	51.096	32.769	33.746	1.00	0.00	C
ATOM	3640	HA	THR	231	52.139	33.085	33.706	1.00	0.00	H
ATOM	3641	CB	THR	231	50.368	33.651	34.777	1.00	0.00	C
ATOM	3642	HB	THR	231	49.304	33.408	34.769	1.00	0.00	H
ATOM	3643	CG2	THR	231	50.886	33.482	36.204	1.00	0.00	C
ATOM	3644	HG21	THR	231	51.970	33.605	36.222	1.00	0.00	H
ATOM	3645	HG22	THR	231	50.618	32.498	36.580	1.00	0.00	H
ATOM	3646	HG23	THR	231	50.431	34.231	36.847	1.00	0.00	H
ATOM	3647	OG1	THR	231	50.514	35.014	34.470	1.00	0.00	O
ATOM	3648	HG1	THR	231	49.913	35.190	33.725	1.00	0.00	H
ATOM	3649	C	THR	231	51.073	31.318	34.240	1.00	0.00	C
ATOM	3650	O	THR	231	52.066	30.829	34.779	1.00	0.00	O
ATOM	3651	N	GLU	232	49.957	30.611	34.023	1.00	0.00	N
ATOM	3652	H	GLU	232	49.187	31.067	33.546	1.00	0.00	H
ATOM	3653	CA	GLU	232	49.798	29.202	34.399	1.00	0.00	C
ATOM	3654	HA	GLU	232	50.026	29.091	35.461	1.00	0.00	H
ATOM	3655	CB	GLU	232	48.333	28.799	34.167	1.00	0.00	C
ATOM	3656	HB2	GLU	232	47.692	29.443	34.771	1.00	0.00	H
ATOM	3657	HB3	GLU	232	48.093	28.967	33.116	1.00	0.00	H
ATOM	3658	CG	GLU	232	48.033	27.335	34.526	1.00	0.00	C
ATOM	3659	HG2	GLU	232	48.679	26.673	33.948	1.00	0.00	H
ATOM	3660	HG3	GLU	232	48.248	27.183	35.587	1.00	0.00	H
ATOM	3661	CD	GLU	232	46.578	26.952	34.233	1.00	0.00	C
ATOM	3662	OE1	GLU	232	46.026	27.427	33.207	1.00	0.00	O
ATOM	3663	OE2	GLU	232	46.003	26.165	35.020	1.00	0.00	O
ATOM	3664	C	GLU	232	50.757	28.277	33.631	1.00	0.00	C
ATOM	3665	O	GLU	232	51.474	27.485	34.250	1.00	0.00	O
ATOM	3666	N	LYS	233	50.826	28.403	32.296	1.00	0.00	N
ATOM	3667	H	LYS	233	50.232	29.096	31.849	1.00	0.00	H
ATOM	3668	CA	LYS	233	51.771	27.642	31.452	1.00	0.00	C
ATOM	3669	HA	LYS	233	51.578	26.573	31.552	1.00	0.00	H
ATOM	3670	CB	LYS	233	51.622	28.060	29.980	1.00	0.00	C
ATOM	3671	HB2	LYS	233	51.720	29.146	29.924	1.00	0.00	H
ATOM	3672	HB3	LYS	233	52.433	27.621	29.395	1.00	0.00	H
ATOM	3673	CG	LYS	233	50.291	27.633	29.346	1.00	0.00	C
ATOM	3674	HG2	LYS	233	50.311	26.564	29.133	1.00	0.00	H
ATOM	3675	HG3	LYS	233	49.480	27.821	30.047	1.00	0.00	H
ATOM	3676	CD	LYS	233	50.042	28.417	28.048	1.00	0.00	C
ATOM	3677	HD2	LYS	233	50.345	29.455	28.189	1.00	0.00	H
ATOM	3678	HD3	LYS	233	50.625	27.988	27.232	1.00	0.00	H
ATOM	3679	CE	LYS	233	48.552	28.405	27.712	1.00	0.00	C
ATOM	3680	HE2	LYS	233	48.229	27.389	27.471	1.00	0.00	H
ATOM	3681	HE3	LYS	233	48.011	28.723	28.609	1.00	0.00	H
ATOM	3682	NZ	LYS	233	48.232	29.337	26.606	1.00	0.00	N
ATOM	3683	HZ1	LYS	233	47.233	29.550	26.627	1.00	0.00	H
ATOM	3684	HZ2	LYS	233	48.479	28.958	25.707	1.00	0.00	H
ATOM	3685	HZ3	LYS	233	48.735	30.223	26.706	1.00	0.00	H
ATOM	3686	C	LYS	233	53.215	27.882	31.887	1.00	0.00	C
ATOM	3687	O	LYS	233	54.039	26.973	31.853	1.00	0.00	O
ATOM	3688	N	HIE	234	53.524	29.107	32.311	1.00	0.00	N
ATOM	3689	H	HIE	234	52.798	29.817	32.252	1.00	0.00	H

ATOM	3690	CA	HIE	234	54.855	29.531	32.745	1.00	0.00	C
ATOM	3691	HA	HIE	234	55.591	28.945	32.192	1.00	0.00	H
ATOM	3692	CB	HIE	234	55.078	31.009	32.368	1.00	0.00	C
ATOM	3693	HB2	HIE	234	54.474	31.621	33.040	1.00	0.00	H
ATOM	3694	HB3	HIE	234	56.124	31.256	32.551	1.00	0.00	H
ATOM	3695	CG	HIE	234	54.743	31.434	30.944	1.00	0.00	C
ATOM	3696	ND1	HIE	234	54.662	32.768	30.548	1.00	0.00	N
ATOM	3697	CE1	HIE	234	54.195	32.765	29.293	1.00	0.00	C
ATOM	3698	HE1	HIE	234	53.941	33.654	28.731	1.00	0.00	H
ATOM	3699	NE2	HIE	234	53.966	31.513	28.877	1.00	0.00	N
ATOM	3700	HE2	HIE	234	53.370	31.291	28.072	1.00	0.00	H
ATOM	3701	CD2	HIE	234	54.354	30.655	29.885	1.00	0.00	C
ATOM	3702	HD2	HIE	234	54.253	29.583	29.879	1.00	0.00	H
ATOM	3703	C	HIE	234	55.111	29.228	34.238	1.00	0.00	C
ATOM	3704	O	HIE	234	56.051	29.767	34.826	1.00	0.00	O
ATOM	3705	N	SER	235	54.327	28.331	34.858	1.00	0.00	N
ATOM	3706	H	SER	235	53.533	27.983	34.330	1.00	0.00	H
ATOM	3707	CA	SER	235	54.462	27.806	36.236	1.00	0.00	C
ATOM	3708	HA	SER	235	53.645	27.093	36.350	1.00	0.00	H
ATOM	3709	CB	SER	235	55.756	26.988	36.394	1.00	0.00	C
ATOM	3710	HB2	SER	235	55.728	26.437	37.335	1.00	0.00	H
ATOM	3711	HB3	SER	235	55.827	26.269	35.576	1.00	0.00	H
ATOM	3712	OG	SER	235	56.896	27.830	36.379	1.00	0.00	O
ATOM	3713	HG	SER	235	56.669	28.559	35.765	1.00	0.00	H
ATOM	3714	C	SER	235	54.241	28.818	37.376	1.00	0.00	C
ATOM	3715	O	SER	235	54.702	28.597	38.498	1.00	0.00	O
ATOM	3716	N	GLY	236	53.545	29.922	37.096	1.00	0.00	N
ATOM	3717	H	GLY	236	53.152	30.017	36.164	1.00	0.00	H
ATOM	3718	CA	GLY	236	53.100	30.901	38.090	1.00	0.00	C
ATOM	3719	HA2	GLY	236	53.694	30.817	39.001	1.00	0.00	H
ATOM	3720	HA3	GLY	236	53.244	31.905	37.691	1.00	0.00	H
ATOM	3721	C	GLY	236	51.622	30.736	38.448	1.00	0.00	C
ATOM	3722	O	GLY	236	50.914	29.896	37.888	1.00	0.00	O
ATOM	3723	N	LYS	237	51.126	31.572	39.366	1.00	0.00	N
ATOM	3724	H	LYS	237	51.780	32.193	39.837	1.00	0.00	H
ATOM	3725	CA	LYS	237	49.710	31.588	39.769	1.00	0.00	C
ATOM	3726	HA	LYS	237	49.119	31.169	38.953	1.00	0.00	H
ATOM	3727	CB	LYS	237	49.535	30.688	41.002	1.00	0.00	C
ATOM	3728	HB2	LYS	237	50.065	29.747	40.839	1.00	0.00	H
ATOM	3729	HB3	LYS	237	49.957	31.178	41.881	1.00	0.00	H
ATOM	3730	CG	LYS	237	48.054	30.374	41.234	1.00	0.00	C
ATOM	3731	HG2	LYS	237	47.487	31.297	41.344	1.00	0.00	H
ATOM	3732	HG3	LYS	237	47.677	29.838	40.363	1.00	0.00	H
ATOM	3733	CD	LYS	237	47.846	29.527	42.489	1.00	0.00	C
ATOM	3734	HD2	LYS	237	48.522	28.672	42.468	1.00	0.00	H
ATOM	3735	HD3	LYS	237	48.046	30.133	43.374	1.00	0.00	H
ATOM	3736	CE	LYS	237	46.398	29.035	42.490	1.00	0.00	C
ATOM	3737	HE2	LYS	237	45.731	29.880	42.298	1.00	0.00	H
ATOM	3738	HE3	LYS	237	46.280	28.325	41.668	1.00	0.00	H
ATOM	3739	NZ	LYS	237	46.023	28.384	43.762	1.00	0.00	N
ATOM	3740	HZ1	LYS	237	46.028	29.065	44.513	1.00	0.00	H
ATOM	3741	HZ2	LYS	237	46.673	27.622	43.965	1.00	0.00	H

ATOM	3742	HZ3 LYS	237	45.079	28.020	43.678	1.00	0.00	H
ATOM	3743	C LYS	237	49.202	33.001	40.039	1.00	0.00	C
ATOM	3744	O LYS	237	49.842	33.751	40.774	1.00	0.00	O
ATOM	3745	N LEU	238	48.033	33.356	39.496	1.00	0.00	N
ATOM	3746	H LEU	238	47.541	32.683	38.932	1.00	0.00	H
ATOM	3747	CA LEU	238	47.350	34.606	39.855	1.00	0.00	C
ATOM	3748	HA LEU	238	48.050	35.432	39.733	1.00	0.00	H
ATOM	3749	CB LEU	238	46.135	34.886	38.952	1.00	0.00	C
ATOM	3750	HB2 LEU	238	45.391	34.103	39.109	1.00	0.00	H
ATOM	3751	HB3 LEU	238	45.696	35.825	39.294	1.00	0.00	H
ATOM	3752	CG LEU	238	46.400	35.005	37.439	1.00	0.00	C
ATOM	3753	HG LEU	238	46.577	34.013	37.022	1.00	0.00	H
ATOM	3754	CD1 LEU	238	45.167	35.614	36.775	1.00	0.00	C
ATOM	3755	HD11 LEU	238	44.295	34.982	36.946	1.00	0.00	H
ATOM	3756	HD12 LEU	238	45.333	35.717	35.705	1.00	0.00	H
ATOM	3757	HD13 LEU	238	44.971	36.603	37.190	1.00	0.00	H
ATOM	3758	CD2 LEU	238	47.585	35.902	37.090	1.00	0.00	C
ATOM	3759	HD21 LEU	238	47.472	36.882	37.555	1.00	0.00	H
ATOM	3760	HD22 LEU	238	48.505	35.435	37.424	1.00	0.00	H
ATOM	3761	HD23 LEU	238	47.657	36.018	36.009	1.00	0.00	H
ATOM	3762	C LEU	238	46.918	34.592	41.331	1.00	0.00	C
ATOM	3763	O LEU	238	46.355	33.611	41.817	1.00	0.00	O
ATOM	3764	N GLY	239	47.168	35.698	42.032	1.00	0.00	N
ATOM	3765	H GLY	239	47.628	36.465	41.553	1.00	0.00	H
ATOM	3766	CA GLY	239	46.756	35.903	43.421	1.00	0.00	C
ATOM	3767	HA2 GLY	239	46.545	34.945	43.897	1.00	0.00	H
ATOM	3768	HA3 GLY	239	47.574	36.373	43.962	1.00	0.00	H
ATOM	3769	C GLY	239	45.520	36.793	43.559	1.00	0.00	C
ATOM	3770	O GLY	239	44.668	36.502	44.394	1.00	0.00	O
ATOM	3771	N THR	240	45.409	37.845	42.737	1.00	0.00	N
ATOM	3772	H THR	240	46.160	38.017	42.078	1.00	0.00	H
ATOM	3773	CA THR	240	44.238	38.741	42.631	1.00	0.00	C
ATOM	3774	HA THR	240	43.333	38.146	42.753	1.00	0.00	H
ATOM	3775	CB THR	240	44.219	39.860	43.701	1.00	0.00	C
ATOM	3776	HB THR	240	43.420	40.556	43.442	1.00	0.00	H
ATOM	3777	CG2 THR	240	43.964	39.387	45.129	1.00	0.00	C
ATOM	3778	HG21 THR	240	44.814	38.822	45.508	1.00	0.00	H
ATOM	3779	HG22 THR	240	43.069	38.766	45.158	1.00	0.00	H
ATOM	3780	HG23 THR	240	43.810	40.255	45.770	1.00	0.00	H
ATOM	3781	OG1 THR	240	45.428	40.577	43.741	1.00	0.00	O
ATOM	3782	HG1 THR	240	46.047	40.046	44.251	1.00	0.00	H
ATOM	3783	C THR	240	44.180	39.410	41.249	1.00	0.00	C
ATOM	3784	O THR	240	45.214	39.715	40.655	1.00	0.00	O
ATOM	3785	N TYR	241	42.966	39.678	40.756	1.00	0.00	N
ATOM	3786	H TYR	241	42.166	39.382	41.292	1.00	0.00	H
ATOM	3787	CA TYR	241	42.710	40.775	39.814	1.00	0.00	C
ATOM	3788	HA TYR	241	43.623	41.039	39.278	1.00	0.00	H
ATOM	3789	CB TYR	241	41.628	40.399	38.789	1.00	0.00	C
ATOM	3790	HB2 TYR	241	40.692	40.223	39.322	1.00	0.00	H
ATOM	3791	HB3 TYR	241	41.471	41.268	38.150	1.00	0.00	H
ATOM	3792	CG TYR	241	41.900	39.221	37.870	1.00	0.00	C
ATOM	3793	CD1 TYR	241	41.088	38.071	37.937	1.00	0.00	C

ATOM	3794	HD1 TYR	241	40.335	37.994	38.706	1.00	0.00	H
ATOM	3795	CE1 TYR	241	41.224	37.048	36.976	1.00	0.00	C
ATOM	3796	HE1 TYR	241	40.586	36.177	36.996	1.00	0.00	H
ATOM	3797	CZ TYR	241	42.180	37.175	35.945	1.00	0.00	C
ATOM	3798	OH TYR	241	42.249	36.227	34.974	1.00	0.00	O
ATOM	3799	HH TYR	241	42.746	36.527	34.198	1.00	0.00	H
ATOM	3800	CE2 TYR	241	43.029	38.303	35.909	1.00	0.00	C
ATOM	3801	HE2 TYR	241	43.763	38.400	35.124	1.00	0.00	H
ATOM	3802	CD2 TYR	241	42.878	39.329	36.863	1.00	0.00	C
ATOM	3803	HD2 TYR	241	43.479	40.226	36.791	1.00	0.00	H
ATOM	3804	C TYR	241	42.231	41.996	40.615	1.00	0.00	C
ATOM	3805	O TYR	241	41.452	41.830	41.557	1.00	0.00	O
ATOM	3806	N LEU	242	42.637	43.209	40.236	1.00	0.00	N
ATOM	3807	H LEU	242	43.280	43.284	39.452	1.00	0.00	H
ATOM	3808	CA LEU	242	42.210	44.443	40.896	1.00	0.00	C
ATOM	3809	HA LEU	242	41.208	44.280	41.293	1.00	0.00	H
ATOM	3810	CB LEU	242	43.153	44.743	42.079	1.00	0.00	C
ATOM	3811	HB2 LEU	242	43.332	43.838	42.663	1.00	0.00	H
ATOM	3812	HB3 LEU	242	44.112	45.081	41.684	1.00	0.00	H
ATOM	3813	CG LEU	242	42.537	45.828	42.979	1.00	0.00	C
ATOM	3814	HG LEU	242	42.029	46.552	42.348	1.00	0.00	H
ATOM	3815	CD1 LEU	242	41.533	45.201	43.943	1.00	0.00	C
ATOM	3816	HD11 LEU	242	40.673	44.831	43.390	1.00	0.00	H
ATOM	3817	HD12 LEU	242	41.197	45.941	44.667	1.00	0.00	H
ATOM	3818	HD13 LEU	242	41.992	44.374	44.487	1.00	0.00	H
ATOM	3819	CD2 LEU	242	43.559	46.598	43.806	1.00	0.00	C
ATOM	3820	HD21 LEU	242	43.705	46.093	44.754	1.00	0.00	H
ATOM	3821	HD22 LEU	242	44.505	46.662	43.273	1.00	0.00	H
ATOM	3822	HD23 LEU	242	43.175	47.594	44.019	1.00	0.00	H
ATOM	3823	C LEU	242	42.131	45.623	39.914	1.00	0.00	C
ATOM	3824	O LEU	242	43.147	46.202	39.526	1.00	0.00	O
ATOM	3825	N GLY	243	40.910	46.014	39.543	1.00	0.00	N
ATOM	3826	H GLY	243	40.111	45.496	39.876	1.00	0.00	H
ATOM	3827	CA GLY	243	40.686	47.067	38.553	1.00	0.00	C
ATOM	3828	HA2 GLY	243	39.621	47.275	38.471	1.00	0.00	H
ATOM	3829	HA3 GLY	243	41.203	47.971	38.868	1.00	0.00	H
ATOM	3830	C GLY	243	41.211	46.665	37.178	1.00	0.00	C
ATOM	3831	O GLY	243	40.761	45.672	36.615	1.00	0.00	O
ATOM	3832	N ASP	244	42.170	47.429	36.656	1.00	0.00	N
ATOM	3833	H ASP	244	42.487	48.232	37.180	1.00	0.00	H
ATOM	3834	CA ASP	244	42.892	47.123	35.414	1.00	0.00	C
ATOM	3835	HA ASP	244	42.207	46.637	34.720	1.00	0.00	H
ATOM	3836	CB ASP	244	43.369	48.433	34.771	1.00	0.00	C
ATOM	3837	HB2 ASP	244	43.579	48.238	33.721	1.00	0.00	H
ATOM	3838	HB3 ASP	244	42.566	49.168	34.813	1.00	0.00	H
ATOM	3839	CG ASP	244	44.624	49.023	35.425	1.00	0.00	C
ATOM	3840	OD1 ASP	244	44.796	48.962	36.681	1.00	0.00	O
ATOM	3841	OD2 ASP	244	45.471	49.595	34.696	1.00	0.00	O
ATOM	3842	C ASP	244	44.107	46.190	35.600	1.00	0.00	C
ATOM	3843	O ASP	244	44.780	45.877	34.618	1.00	0.00	O
ATOM	3844	N GLY	245	44.448	45.823	36.842	1.00	0.00	N
ATOM	3845	H GLY	245	43.845	46.094	37.609	1.00	0.00	H

ATOM	3846	CA	GLY	245	45.702	45.146	37.177	1.00	0.00	C
ATOM	3847	HA2	GLY	245	46.349	45.158	36.304	1.00	0.00	H
ATOM	3848	HA3	GLY	245	46.209	45.698	37.968	1.00	0.00	H
ATOM	3849	C	GLY	245	45.558	43.693	37.625	1.00	0.00	C
ATOM	3850	O	GLY	245	44.512	43.276	38.127	1.00	0.00	O
ATOM	3851	N	ALA	246	46.638	42.927	37.479	1.00	0.00	N
ATOM	3852	H	ALA	246	47.458	43.348	37.047	1.00	0.00	H
ATOM	3853	CA	ALA	246	46.746	41.541	37.925	1.00	0.00	C
ATOM	3854	HA	ALA	246	45.885	41.298	38.549	1.00	0.00	H
ATOM	3855	CB	ALA	246	46.703	40.615	36.702	1.00	0.00	C
ATOM	3856	HB1	ALA	246	47.556	40.817	36.053	1.00	0.00	H
ATOM	3857	HB2	ALA	246	45.783	40.782	36.141	1.00	0.00	H
ATOM	3858	HB3	ALA	246	46.738	39.575	37.027	1.00	0.00	H
ATOM	3859	C	ALA	246	48.010	41.329	38.774	1.00	0.00	C
ATOM	3860	O	ALA	246	49.114	41.709	38.378	1.00	0.00	O
ATOM	3861	N	MET	247	47.840	40.694	39.937	1.00	0.00	N
ATOM	3862	H	MET	247	46.898	40.392	40.172	1.00	0.00	H
ATOM	3863	CA	MET	247	48.917	40.232	40.815	1.00	0.00	C
ATOM	3864	HA	MET	247	49.840	40.747	40.552	1.00	0.00	H
ATOM	3865	CB	MET	247	48.568	40.581	42.271	1.00	0.00	C
ATOM	3866	HB2	MET	247	48.428	41.658	42.347	1.00	0.00	H
ATOM	3867	HB3	MET	247	47.624	40.106	42.529	1.00	0.00	H
ATOM	3868	CG	MET	247	49.623	40.156	43.303	1.00	0.00	C
ATOM	3869	HG2	MET	247	50.622	40.284	42.884	1.00	0.00	H
ATOM	3870	HG3	MET	247	49.536	40.827	44.157	1.00	0.00	H
ATOM	3871	SD	MET	247	49.434	38.459	43.924	1.00	0.00	S
ATOM	3872	CE	MET	247	50.523	38.521	45.373	1.00	0.00	C
ATOM	3873	HE1	MET	247	50.543	37.545	45.858	1.00	0.00	H
ATOM	3874	HE2	MET	247	51.532	38.791	45.064	1.00	0.00	H
ATOM	3875	HE3	MET	247	50.149	39.257	46.082	1.00	0.00	H
ATOM	3876	C	MET	247	49.129	38.726	40.632	1.00	0.00	C
ATOM	3877	O	MET	247	48.158	37.962	40.622	1.00	0.00	O
ATOM	3878	N	CYS	248	50.380	38.276	40.533	1.00	0.00	N
ATOM	3879	H	CYS	248	51.149	38.940	40.592	1.00	0.00	H
ATOM	3880	CA	CYS	248	50.707	36.850	40.461	1.00	0.00	C
ATOM	3881	HA	CYS	248	49.944	36.311	41.023	1.00	0.00	H
ATOM	3882	CB	CYS	248	50.612	36.370	39.000	1.00	0.00	C
ATOM	3883	HB2	CYS	248	50.170	35.379	38.991	1.00	0.00	H
ATOM	3884	HB3	CYS	248	49.961	37.031	38.425	1.00	0.00	H
ATOM	3885	SG	CYS	248	52.215	36.222	38.182	1.00	0.00	S
ATOM	3886	HG	CYS	248	52.494	37.526	38.108	1.00	0.00	H
ATOM	3887	C	CYS	248	52.032	36.501	41.156	1.00	0.00	C
ATOM	3888	O	CYS	248	52.833	37.386	41.468	1.00	0.00	O
ATOM	3889	N	ILE	249	52.239	35.208	41.420	1.00	0.00	N
ATOM	3890	H	ILE	249	51.539	34.540	41.113	1.00	0.00	H
ATOM	3891	CA	ILE	249	53.373	34.686	42.191	1.00	0.00	C
ATOM	3892	HA	ILE	249	54.138	35.460	42.211	1.00	0.00	H
ATOM	3893	CB	ILE	249	52.968	34.412	43.665	1.00	0.00	C
ATOM	3894	HB	ILE	249	53.895	34.254	44.220	1.00	0.00	H
ATOM	3895	CG2	ILE	249	52.266	35.634	44.289	1.00	0.00	C
ATOM	3896	HG21	ILE	249	52.791	36.546	44.007	1.00	0.00	H
ATOM	3897	HG22	ILE	249	52.272	35.556	45.375	1.00	0.00	H

ATOM	3898	HG23	ILE	249	51.236	35.701	43.938	1.00	0.00	H
ATOM	3899	CG1	ILE	249	52.106	33.137	43.833	1.00	0.00	C
ATOM	3900	HG12	ILE	249	51.194	33.235	43.244	1.00	0.00	H
ATOM	3901	HG13	ILE	249	52.660	32.277	43.459	1.00	0.00	H
ATOM	3902	CD1	ILE	249	51.721	32.822	45.286	1.00	0.00	C
ATOM	3903	HD11	ILE	249	52.616	32.791	45.909	1.00	0.00	H
ATOM	3904	HD12	ILE	249	51.228	31.851	45.324	1.00	0.00	H
ATOM	3905	HD13	ILE	249	51.033	33.575	45.670	1.00	0.00	H
ATOM	3906	C	ILE	249	54.016	33.451	41.538	1.00	0.00	C
ATOM	3907	O	ILE	249	53.340	32.643	40.899	1.00	0.00	O
ATOM	3908	N	TRP	250	55.311	33.276	41.800	1.00	0.00	N
ATOM	3909	H	TRP	250	55.768	34.022	42.317	1.00	0.00	H
ATOM	3910	CA	TRP	250	56.065	32.021	41.700	1.00	0.00	C
ATOM	3911	HA	TRP	250	55.380	31.189	41.531	1.00	0.00	H
ATOM	3912	CB	TRP	250	57.091	32.061	40.549	1.00	0.00	C
ATOM	3913	HB2	TRP	250	57.788	32.875	40.733	1.00	0.00	H
ATOM	3914	HB3	TRP	250	57.670	31.144	40.600	1.00	0.00	H
ATOM	3915	CG	TRP	250	56.618	32.182	39.133	1.00	0.00	C
ATOM	3916	CD1	TRP	250	56.619	31.175	38.229	1.00	0.00	C
ATOM	3917	HD1	TRP	250	56.914	30.153	38.432	1.00	0.00	H
ATOM	3918	NE1	TRP	250	56.178	31.641	37.009	1.00	0.00	N
ATOM	3919	HE1	TRP	250	56.065	31.051	36.186	1.00	0.00	H
ATOM	3920	CE2	TRP	250	55.823	32.965	37.073	1.00	0.00	C
ATOM	3921	CZ2	TRP	250	55.280	33.846	36.131	1.00	0.00	C
ATOM	3922	HZ2	TRP	250	55.023	33.497	35.141	1.00	0.00	H
ATOM	3923	CH2	TRP	250	55.065	35.183	36.495	1.00	0.00	C
ATOM	3924	HH2	TRP	250	54.634	35.873	35.778	1.00	0.00	H
ATOM	3925	CZ3	TRP	250	55.384	35.610	37.796	1.00	0.00	C
ATOM	3926	HZ3	TRP	250	55.186	36.631	38.079	1.00	0.00	H
ATOM	3927	CE3	TRP	250	55.900	34.709	38.747	1.00	0.00	C
ATOM	3928	HE3	TRP	250	56.109	35.046	39.752	1.00	0.00	H
ATOM	3929	CD2	TRP	250	56.125	33.356	38.413	1.00	0.00	C
ATOM	3930	C	TRP	250	56.820	31.779	43.022	1.00	0.00	C
ATOM	3931	O	TRP	250	56.965	32.687	43.840	1.00	0.00	O
ATOM	3932	N	GLU	251	57.400	30.593	43.214	1.00	0.00	N
ATOM	3933	H	GLU	251	57.246	29.868	42.532	1.00	0.00	H
ATOM	3934	CA	GLU	251	58.481	30.396	44.198	1.00	0.00	C
ATOM	3935	HA	GLU	251	58.107	30.605	45.204	1.00	0.00	H
ATOM	3936	CB	GLU	251	58.968	28.936	44.137	1.00	0.00	C
ATOM	3937	HB2	GLU	251	59.162	28.688	43.091	1.00	0.00	H
ATOM	3938	HB3	GLU	251	59.920	28.845	44.661	1.00	0.00	H
ATOM	3939	CG	GLU	251	57.963	27.910	44.698	1.00	0.00	C
ATOM	3940	HG2	GLU	251	56.951	28.175	44.383	1.00	0.00	H
ATOM	3941	HG3	GLU	251	58.194	26.940	44.252	1.00	0.00	H
ATOM	3942	CD	GLU	251	58.029	27.750	46.226	1.00	0.00	C
ATOM	3943	OE1	GLU	251	59.162	27.672	46.758	1.00	0.00	O
ATOM	3944	OE2	GLU	251	56.954	27.654	46.864	1.00	0.00	O
ATOM	3945	C	GLU	251	59.668	31.346	43.916	1.00	0.00	C
ATOM	3946	O	GLU	251	59.924	31.704	42.761	1.00	0.00	O
ATOM	3947	N	ALA	252	60.454	31.727	44.932	1.00	0.00	N
ATOM	3948	H	ALA	252	60.203	31.482	45.887	1.00	0.00	H
ATOM	3949	CA	ALA	252	61.700	32.484	44.706	1.00	0.00	C

ATOM	3950	HA	ALA	252	61.468	33.395	44.152	1.00	0.00	H
ATOM	3951	CB	ALA	252	62.306	32.895	46.048	1.00	0.00	C
ATOM	3952	HB1	ALA	252	61.653	33.615	46.536	1.00	0.00	H
ATOM	3953	HB2	ALA	252	63.272	33.374	45.880	1.00	0.00	H
ATOM	3954	HB3	ALA	252	62.448	32.020	46.683	1.00	0.00	H
ATOM	3955	C	ALA	252	62.721	31.692	43.865	1.00	0.00	C
ATOM	3956	O	ALA	252	63.521	32.269	43.136	1.00	0.00	O
ATOM	3957	N	SER	253	62.640	30.359	43.884	1.00	0.00	N
ATOM	3958	H	SER	253	62.003	29.934	44.542	1.00	0.00	H
ATOM	3959	CA	SER	253	63.419	29.460	43.022	1.00	0.00	C
ATOM	3960	HA	SER	253	64.480	29.653	43.183	1.00	0.00	H
ATOM	3961	CB	SER	253	63.112	28.006	43.416	1.00	0.00	C
ATOM	3962	HB2	SER	253	62.118	27.741	43.052	1.00	0.00	H
ATOM	3963	HB3	SER	253	63.840	27.340	42.951	1.00	0.00	H
ATOM	3964	OG	SER	253	63.133	27.834	44.828	1.00	0.00	O
ATOM	3965	HG	SER	253	64.041	27.959	45.134	1.00	0.00	H
ATOM	3966	C	SER	253	63.135	29.636	41.516	1.00	0.00	C
ATOM	3967	O	SER	253	63.860	29.084	40.692	1.00	0.00	O
ATOM	3968	N	HID	254	62.076	30.368	41.146	1.00	0.00	N
ATOM	3969	H	HID	254	61.541	30.821	41.878	1.00	0.00	H
ATOM	3970	CA	HID	254	61.527	30.473	39.789	1.00	0.00	C
ATOM	3971	HA	HID	254	62.172	29.917	39.112	1.00	0.00	H
ATOM	3972	CB	HID	254	60.139	29.795	39.763	1.00	0.00	C
ATOM	3973	HB2	HID	254	59.601	30.067	40.669	1.00	0.00	H
ATOM	3974	HB3	HID	254	59.562	30.169	38.921	1.00	0.00	H
ATOM	3975	CG	HID	254	60.143	28.284	39.652	1.00	0.00	C
ATOM	3976	ND1	HID	254	59.022	27.482	39.603	1.00	0.00	N
ATOM	3977	HD1	HID	254	58.060	27.789	39.648	1.00	0.00	H
ATOM	3978	CE1	HID	254	59.413	26.218	39.369	1.00	0.00	C
ATOM	3979	HE1	HID	254	58.745	25.371	39.263	1.00	0.00	H
ATOM	3980	NE2	HID	254	60.750	26.159	39.240	1.00	0.00	N
ATOM	3981	CD2	HID	254	61.219	27.463	39.426	1.00	0.00	C
ATOM	3982	HD2	HID	254	62.251	27.771	39.337	1.00	0.00	H
ATOM	3983	C	HID	254	61.560	31.905	39.207	1.00	0.00	C
ATOM	3984	O	HID	254	60.784	32.237	38.310	1.00	0.00	O
ATOM	3985	N	VAL	255	62.520	32.740	39.630	1.00	0.00	N
ATOM	3986	H	VAL	255	63.077	32.464	40.429	1.00	0.00	H
ATOM	3987	CA	VAL	255	62.779	34.065	39.021	1.00	0.00	C
ATOM	3988	HA	VAL	255	61.898	34.689	39.172	1.00	0.00	H
ATOM	3989	CB	VAL	255	63.968	34.754	39.727	1.00	0.00	C
ATOM	3990	HB	VAL	255	64.800	34.051	39.778	1.00	0.00	H
ATOM	3991	CG1	VAL	255	64.457	36.017	39.016	1.00	0.00	C
ATOM	3992	HG11	VAL	255	63.648	36.742	38.924	1.00	0.00	H
ATOM	3993	HG12	VAL	255	65.275	36.457	39.586	1.00	0.00	H
ATOM	3994	HG13	VAL	255	64.838	35.779	38.026	1.00	0.00	H
ATOM	3995	CG2	VAL	255	63.586	35.180	41.149	1.00	0.00	C
ATOM	3996	HG21	VAL	255	62.791	35.924	41.120	1.00	0.00	H
ATOM	3997	HG22	VAL	255	64.453	35.601	41.657	1.00	0.00	H
ATOM	3998	HG23	VAL	255	63.238	34.323	41.720	1.00	0.00	H
ATOM	3999	C	VAL	255	62.996	33.975	37.498	1.00	0.00	C
ATOM	4000	O	VAL	255	62.468	34.804	36.757	1.00	0.00	O
ATOM	4001	N	ARG	256	63.685	32.928	37.004	1.00	0.00	N



ATOM	4002	H	ARG	256	64.085	32.283	37.668	1.00	0.00	H
ATOM	4003	CA	ARG	256	63.839	32.667	35.554	1.00	0.00	C
ATOM	4004	HA	ARG	256	64.249	33.567	35.094	1.00	0.00	H
ATOM	4005	CB	ARG	256	64.833	31.509	35.284	1.00	0.00	C
ATOM	4006	HB2	ARG	256	65.027	31.483	34.211	1.00	0.00	H
ATOM	4007	HB3	ARG	256	65.774	31.737	35.785	1.00	0.00	H
ATOM	4008	CG	ARG	256	64.380	30.102	35.721	1.00	0.00	C
ATOM	4009	HG2	ARG	256	64.144	30.118	36.786	1.00	0.00	H
ATOM	4010	HG3	ARG	256	63.490	29.826	35.159	1.00	0.00	H
ATOM	4011	CD	ARG	256	65.447	29.023	35.462	1.00	0.00	C
ATOM	4012	HD2	ARG	256	65.613	28.938	34.386	1.00	0.00	H
ATOM	4013	HD3	ARG	256	66.382	29.327	35.937	1.00	0.00	H
ATOM	4014	NE	ARG	256	65.035	27.712	36.007	1.00	0.00	N
ATOM	4015	HE	ARG	256	64.147	27.670	36.483	1.00	0.00	H
ATOM	4016	CZ	ARG	256	65.752	26.596	36.012	1.00	0.00	C
ATOM	4017	NH1	ARG	256	66.885	26.478	35.379	1.00	0.00	N
ATOM	4018	HH11	ARG	256	67.201	27.182	34.724	1.00	0.00	H
ATOM	4019	HH12	ARG	256	67.389	25.602	35.379	1.00	0.00	H
ATOM	4020	NH2	ARG	256	65.340	25.545	36.660	1.00	0.00	N
ATOM	4021	HH21	ARG	256	64.439	25.516	37.128	1.00	0.00	H
ATOM	4022	HH22	ARG	256	65.942	24.731	36.717	1.00	0.00	H
ATOM	4023	C	ARG	256	62.495	32.467	34.845	1.00	0.00	C
ATOM	4024	O	ARG	256	62.280	33.011	33.768	1.00	0.00	O
ATOM	4025	N	ASN	257	61.577	31.735	35.472	1.00	0.00	N
ATOM	4026	H	ASN	257	61.820	31.325	36.362	1.00	0.00	H
ATOM	4027	CA	ASN	257	60.236	31.462	34.964	1.00	0.00	C
ATOM	4028	HA	ASN	257	60.318	31.071	33.948	1.00	0.00	H
ATOM	4029	CB	ASN	257	59.528	30.402	35.849	1.00	0.00	C
ATOM	4030	HB2	ASN	257	59.143	30.886	36.744	1.00	0.00	H
ATOM	4031	HB3	ASN	257	58.665	30.038	35.295	1.00	0.00	H
ATOM	4032	CG	ASN	257	60.352	29.198	36.313	1.00	0.00	C
ATOM	4033	OD1	ASN	257	61.513	29.280	36.691	1.00	0.00	O
ATOM	4034	ND2	ASN	257	59.767	28.028	36.374	1.00	0.00	N
ATOM	4035	HD21	ASN	257	58.772	27.934	36.200	1.00	0.00	H
ATOM	4036	HD22	ASN	257	60.279	27.281	36.808	1.00	0.00	H
ATOM	4037	C	ASN	257	59.423	32.769	34.897	1.00	0.00	C
ATOM	4038	O	ASN	257	58.788	33.049	33.884	1.00	0.00	O
ATOM	4039	N	SER	258	59.512	33.596	35.945	1.00	0.00	N
ATOM	4040	H	SER	258	60.047	33.277	36.746	1.00	0.00	H
ATOM	4041	CA	SER	258	58.823	34.887	36.048	1.00	0.00	C
ATOM	4042	HA	SER	258	57.761	34.722	35.884	1.00	0.00	H
ATOM	4043	CB	SER	258	59.013	35.429	37.466	1.00	0.00	C
ATOM	4044	HB2	SER	258	58.730	34.665	38.191	1.00	0.00	H
ATOM	4045	HB3	SER	258	60.062	35.685	37.620	1.00	0.00	H
ATOM	4046	OG	SER	258	58.222	36.577	37.669	1.00	0.00	O
ATOM	4047	HG	SER	258	57.297	36.293	37.636	1.00	0.00	H
ATOM	4048	C	SER	258	59.289	35.914	35.008	1.00	0.00	C
ATOM	4049	O	SER	258	58.467	36.518	34.319	1.00	0.00	O
ATOM	4050	N	ILE	259	60.605	36.076	34.827	1.00	0.00	N
ATOM	4051	H	ILE	259	61.243	35.566	35.430	1.00	0.00	H
ATOM	4052	CA	ILE	259	61.167	37.011	33.838	1.00	0.00	C
ATOM	4053	HA	ILE	259	60.639	37.962	33.932	1.00	0.00	H

ATOM	4054	CB	ILE	259	62.659	37.277	34.150	1.00	0.00	C
ATOM	4055	HB	ILE	259	63.155	36.322	34.337	1.00	0.00	H
ATOM	4056	CG2	ILE	259	63.383	37.968	32.980	1.00	0.00	C
ATOM	4057	HG21	ILE	259	63.387	37.326	32.098	1.00	0.00	H
ATOM	4058	HG22	ILE	259	64.421	38.162	33.238	1.00	0.00	H
ATOM	4059	HG23	ILE	259	62.889	38.909	32.735	1.00	0.00	H
ATOM	4060	CG1	ILE	259	62.733	38.147	35.429	1.00	0.00	C
ATOM	4061	HG12	ILE	259	62.294	39.124	35.225	1.00	0.00	H
ATOM	4062	HG13	ILE	259	62.147	37.677	36.220	1.00	0.00	H
ATOM	4063	CD1	ILE	259	64.144	38.354	35.984	1.00	0.00	C
ATOM	4064	HD11	ILE	259	64.618	37.389	36.156	1.00	0.00	H
ATOM	4065	HD12	ILE	259	64.074	38.886	36.931	1.00	0.00	H
ATOM	4066	HD13	ILE	259	64.748	38.950	35.301	1.00	0.00	H
ATOM	4067	C	ILE	259	60.909	36.535	32.400	1.00	0.00	C
ATOM	4068	O	ILE	259	60.531	37.348	31.553	1.00	0.00	O
ATOM	4069	N	ASN	260	61.013	35.228	32.124	1.00	0.00	N
ATOM	4070	H	ASN	260	61.380	34.596	32.826	1.00	0.00	H
ATOM	4071	CA	ASN	260	60.579	34.671	30.839	1.00	0.00	C
ATOM	4072	HA	ASN	260	61.131	35.164	30.035	1.00	0.00	H
ATOM	4073	CB	ASN	260	60.866	33.158	30.781	1.00	0.00	C
ATOM	4074	HB2	ASN	260	60.529	32.678	31.698	1.00	0.00	H
ATOM	4075	HB3	ASN	260	60.293	32.736	29.955	1.00	0.00	H
ATOM	4076	CG	ASN	260	62.325	32.797	30.542	1.00	0.00	C
ATOM	4077	OD1	ASN	260	63.243	33.593	30.641	1.00	0.00	O
ATOM	4078	ND2	ASN	260	62.588	31.567	30.163	1.00	0.00	N
ATOM	4079	HD21	ASN	260	61.849	30.902	30.026	1.00	0.00	H
ATOM	4080	HD22	ASN	260	63.547	31.364	29.953	1.00	0.00	H
ATOM	4081	C	ASN	260	59.087	34.952	30.595	1.00	0.00	C
ATOM	4082	O	ASN	260	58.719	35.366	29.497	1.00	0.00	O
ATOM	4083	N	SER	261	58.241	34.788	31.618	1.00	0.00	N
ATOM	4084	H	SER	261	58.599	34.416	32.490	1.00	0.00	H
ATOM	4085	CA	SER	261	56.802	35.043	31.525	1.00	0.00	C
ATOM	4086	HA	SER	261	56.425	34.457	30.692	1.00	0.00	H
ATOM	4087	CB	SER	261	56.105	34.580	32.806	1.00	0.00	C
ATOM	4088	HB2	SER	261	56.393	33.552	33.023	1.00	0.00	H
ATOM	4089	HB3	SER	261	56.405	35.212	33.641	1.00	0.00	H
ATOM	4090	OG	SER	261	54.704	34.640	32.659	1.00	0.00	O
ATOM	4091	HG	SER	261	54.468	34.016	31.946	1.00	0.00	H
ATOM	4092	C	SER	261	56.470	36.504	31.218	1.00	0.00	C
ATOM	4093	O	SER	261	55.655	36.768	30.338	1.00	0.00	O
ATOM	4094	N	ALA	262	57.171	37.459	31.836	1.00	0.00	N
ATOM	4095	H	ALA	262	57.807	37.184	32.577	1.00	0.00	H
ATOM	4096	CA	ALA	262	57.046	38.883	31.518	1.00	0.00	C
ATOM	4097	HA	ALA	262	56.021	39.198	31.715	1.00	0.00	H
ATOM	4098	CB	ALA	262	57.990	39.656	32.446	1.00	0.00	C
ATOM	4099	HB1	ALA	262	59.029	39.445	32.197	1.00	0.00	H
ATOM	4100	HB2	ALA	262	57.809	39.355	33.476	1.00	0.00	H
ATOM	4101	HB3	ALA	262	57.808	40.727	32.343	1.00	0.00	H
ATOM	4102	C	ALA	262	57.354	39.184	30.039	1.00	0.00	C
ATOM	4103	O	ALA	262	56.596	39.886	29.365	1.00	0.00	O
ATOM	4104	N	CYS	263	58.439	38.607	29.511	1.00	0.00	N
ATOM	4105	H	CYS	263	59.021	38.040	30.116	1.00	0.00	H

ATOM	4106	CA	CYS	263	58.829	38.759	28.107	1.00	0.00	C
ATOM	4107	HA	CYS	263	58.867	39.822	27.864	1.00	0.00	H
ATOM	4108	CB	CYS	263	60.232	38.164	27.902	1.00	0.00	C
ATOM	4109	HB2	CYS	263	60.224	37.097	28.129	1.00	0.00	H
ATOM	4110	HB3	CYS	263	60.524	38.298	26.859	1.00	0.00	H
ATOM	4111	SG	CYS	263	61.451	39.000	28.962	1.00	0.00	S
ATOM	4112	HG	CYS	263	61.091	38.423	30.121	1.00	0.00	H
ATOM	4113	C	CYS	263	57.809	38.111	27.154	1.00	0.00	C
ATOM	4114	O	CYS	263	57.434	38.708	26.144	1.00	0.00	O
ATOM	4115	N	LEU	264	57.327	36.908	27.482	1.00	0.00	N
ATOM	4116	H	LEU	264	57.678	36.466	28.327	1.00	0.00	H
ATOM	4117	CA	LEU	264	56.320	36.189	26.697	1.00	0.00	C
ATOM	4118	HA	LEU	264	56.635	36.177	25.654	1.00	0.00	H
ATOM	4119	CB	LEU	264	56.218	34.738	27.204	1.00	0.00	C
ATOM	4120	HB2	LEU	264	56.083	34.766	28.285	1.00	0.00	H
ATOM	4121	HB3	LEU	264	55.333	34.270	26.769	1.00	0.00	H
ATOM	4122	CG	LEU	264	57.446	33.866	26.871	1.00	0.00	C
ATOM	4123	HG	LEU	264	58.361	34.398	27.123	1.00	0.00	H
ATOM	4124	CD1	LEU	264	57.406	32.570	27.680	1.00	0.00	C
ATOM	4125	HD11	LEU	264	57.384	32.803	28.745	1.00	0.00	H
ATOM	4126	HD12	LEU	264	58.293	31.973	27.469	1.00	0.00	H
ATOM	4127	HD13	LEU	264	56.515	31.995	27.426	1.00	0.00	H
ATOM	4128	CD2	LEU	264	57.501	33.499	25.385	1.00	0.00	C
ATOM	4129	HD21	LEU	264	56.591	32.973	25.096	1.00	0.00	H
ATOM	4130	HD22	LEU	264	57.608	34.396	24.778	1.00	0.00	H
ATOM	4131	HD23	LEU	264	58.360	32.853	25.200	1.00	0.00	H
ATOM	4132	C	LEU	264	54.954	36.889	26.723	1.00	0.00	C
ATOM	4133	O	LEU	264	54.307	36.970	25.683	1.00	0.00	O
ATOM	4134	N	ALA	265	54.538	37.456	27.859	1.00	0.00	N
ATOM	4135	H	ALA	265	55.090	37.317	28.699	1.00	0.00	H
ATOM	4136	CA	ALA	265	53.330	38.270	27.966	1.00	0.00	C
ATOM	4137	HA	ALA	265	52.482	37.686	27.602	1.00	0.00	H
ATOM	4138	CB	ALA	265	53.087	38.605	29.443	1.00	0.00	C
ATOM	4139	HB1	ALA	265	52.977	37.683	30.017	1.00	0.00	H
ATOM	4140	HB2	ALA	265	52.174	39.193	29.541	1.00	0.00	H
ATOM	4141	HB3	ALA	265	53.926	39.175	29.845	1.00	0.00	H
ATOM	4142	C	ALA	265	53.429	39.536	27.100	1.00	0.00	C
ATOM	4143	O	ALA	265	52.503	39.834	26.347	1.00	0.00	O
ATOM	4144	N	ALA	266	54.566	40.242	27.129	1.00	0.00	N
ATOM	4145	H	ALA	266	55.291	39.972	27.788	1.00	0.00	H
ATOM	4146	CA	ALA	266	54.812	41.391	26.257	1.00	0.00	C
ATOM	4147	HA	ALA	266	54.017	42.121	26.418	1.00	0.00	H
ATOM	4148	CB	ALA	266	56.143	42.035	26.665	1.00	0.00	C
ATOM	4149	HB1	ALA	266	56.322	42.922	26.057	1.00	0.00	H
ATOM	4150	HB2	ALA	266	56.963	41.331	26.519	1.00	0.00	H
ATOM	4151	HB3	ALA	266	56.107	42.325	27.716	1.00	0.00	H
ATOM	4152	C	ALA	266	54.788	41.010	24.761	1.00	0.00	C
ATOM	4153	O	ALA	266	54.166	41.709	23.960	1.00	0.00	O
ATOM	4154	N	PHE	267	55.401	39.884	24.379	1.00	0.00	N
ATOM	4155	H	PHE	267	55.938	39.370	25.073	1.00	0.00	H
ATOM	4156	CA	PHE	267	55.388	39.375	23.001	1.00	0.00	C
ATOM	4157	HA	PHE	267	55.709	40.176	22.333	1.00	0.00	H

ATOM	4158	CB	PHE	267	56.403	38.225	22.888	1.00	0.00	C
ATOM	4159	HB2	PHE	267	57.354	38.557	23.307	1.00	0.00	H
ATOM	4160	HB3	PHE	267	56.061	37.382	23.489	1.00	0.00	H
ATOM	4161	CG	PHE	267	56.650	37.751	21.466	1.00	0.00	C
ATOM	4162	CD1	PHE	267	57.708	38.301	20.716	1.00	0.00	C
ATOM	4163	HD1	PHE	267	58.353	39.051	21.156	1.00	0.00	H
ATOM	4164	CE1	PHE	267	57.928	37.886	19.390	1.00	0.00	C
ATOM	4165	HE1	PHE	267	58.739	38.317	18.819	1.00	0.00	H
ATOM	4166	CZ	PHE	267	57.087	36.922	18.806	1.00	0.00	C
ATOM	4167	HZ	PHE	267	57.251	36.609	17.784	1.00	0.00	H
ATOM	4168	CE2	PHE	267	56.037	36.361	19.556	1.00	0.00	C
ATOM	4169	HE2	PHE	267	55.394	35.616	19.109	1.00	0.00	H
ATOM	4170	CD2	PHE	267	55.822	36.771	20.885	1.00	0.00	C
ATOM	4171	HD2	PHE	267	55.010	36.342	21.455	1.00	0.00	H
ATOM	4172	C	PHE	267	53.980	38.938	22.548	1.00	0.00	C
ATOM	4173	O	PHE	267	53.554	39.249	21.433	1.00	0.00	O
ATOM	4174	N	ALA	268	53.224	38.265	23.420	1.00	0.00	N
ATOM	4175	H	ALA	268	53.631	37.997	24.311	1.00	0.00	H
ATOM	4176	CA	ALA	268	51.836	37.886	23.168	1.00	0.00	C
ATOM	4177	HA	ALA	268	51.792	37.313	22.240	1.00	0.00	H
ATOM	4178	CB	ALA	268	51.345	36.990	24.313	1.00	0.00	C
ATOM	4179	HB1	ALA	268	51.973	36.100	24.382	1.00	0.00	H
ATOM	4180	HB2	ALA	268	50.317	36.680	24.124	1.00	0.00	H
ATOM	4181	HB3	ALA	268	51.387	37.528	25.260	1.00	0.00	H
ATOM	4182	C	ALA	268	50.944	39.123	22.992	1.00	0.00	C
ATOM	4183	O	ALA	268	50.177	39.187	22.034	1.00	0.00	O
ATOM	4184	N	ILE	269	51.092	40.134	23.855	1.00	0.00	N
ATOM	4185	H	ILE	269	51.728	40.004	24.638	1.00	0.00	H
ATOM	4186	CA	ILE	269	50.405	41.426	23.735	1.00	0.00	C
ATOM	4187	HA	ILE	269	49.332	41.239	23.677	1.00	0.00	H
ATOM	4188	CB	ILE	269	50.659	42.283	25.000	1.00	0.00	C
ATOM	4189	HB	ILE	269	51.723	42.241	25.236	1.00	0.00	H
ATOM	4190	CG2	ILE	269	50.283	43.762	24.797	1.00	0.00	C
ATOM	4191	HG21	ILE	269	50.939	44.210	24.051	1.00	0.00	H
ATOM	4192	HG22	ILE	269	50.413	44.322	25.721	1.00	0.00	H
ATOM	4193	HG23	ILE	269	49.248	43.847	24.465	1.00	0.00	H
ATOM	4194	CG1	ILE	269	49.856	41.690	26.184	1.00	0.00	C
ATOM	4195	HG12	ILE	269	48.794	41.900	26.047	1.00	0.00	H
ATOM	4196	HG13	ILE	269	49.973	40.606	26.199	1.00	0.00	H
ATOM	4197	CD1	ILE	269	50.295	42.207	27.560	1.00	0.00	C
ATOM	4198	HD11	ILE	269	51.371	42.084	27.681	1.00	0.00	H
ATOM	4199	HD12	ILE	269	49.786	41.633	28.335	1.00	0.00	H
ATOM	4200	HD13	ILE	269	50.031	43.256	27.675	1.00	0.00	H
ATOM	4201	C	ILE	269	50.787	42.123	22.420	1.00	0.00	C
ATOM	4202	O	ILE	269	49.896	42.593	21.722	1.00	0.00	O
ATOM	4203	N	LEU	270	52.061	42.115	22.010	1.00	0.00	N
ATOM	4204	H	LEU	270	52.767	41.743	22.638	1.00	0.00	H
ATOM	4205	CA	LEU	270	52.501	42.675	20.725	1.00	0.00	C
ATOM	4206	HA	LEU	270	52.205	43.724	20.703	1.00	0.00	H
ATOM	4207	CB	LEU	270	54.039	42.613	20.651	1.00	0.00	C
ATOM	4208	HB2	LEU	270	54.451	43.188	21.482	1.00	0.00	H
ATOM	4209	HB3	LEU	270	54.353	41.579	20.778	1.00	0.00	H

ATOM	4210	CG	LEU	270	54.650	43.133	19.335	1.00	0.00	C
ATOM	4211	HG	LEU	270	54.266	42.549	18.498	1.00	0.00	H
ATOM	4212	CD1	LEU	270	54.339	44.611	19.093	1.00	0.00	C
ATOM	4213	HD11	LEU	270	53.267	44.750	18.952	1.00	0.00	H
ATOM	4214	HD12	LEU	270	54.849	44.951	18.191	1.00	0.00	H
ATOM	4215	HD13	LEU	270	54.677	45.209	19.939	1.00	0.00	H
ATOM	4216	CD2	LEU	270	56.169	42.961	19.375	1.00	0.00	C
ATOM	4217	HD21	LEU	270	56.591	43.540	20.197	1.00	0.00	H
ATOM	4218	HD22	LEU	270	56.417	41.908	19.514	1.00	0.00	H
ATOM	4219	HD23	LEU	270	56.605	43.302	18.436	1.00	0.00	H
ATOM	4220	C	LEU	270	51.815	41.998	19.521	1.00	0.00	C
ATOM	4221	O	LEU	270	51.252	42.695	18.673	1.00	0.00	O
ATOM	4222	N	ARG	271	51.775	40.656	19.463	1.00	0.00	N
ATOM	4223	H	ARG	271	52.271	40.127	20.179	1.00	0.00	H
ATOM	4224	CA	ARG	271	51.002	39.944	18.423	1.00	0.00	C
ATOM	4225	HA	ARG	271	51.319	40.318	17.447	1.00	0.00	H
ATOM	4226	CB	ARG	271	51.267	38.424	18.458	1.00	0.00	C
ATOM	4227	HB2	ARG	271	52.323	38.250	18.246	1.00	0.00	H
ATOM	4228	HB3	ARG	271	51.043	38.032	19.451	1.00	0.00	H
ATOM	4229	CG	ARG	271	50.410	37.680	17.411	1.00	0.00	C
ATOM	4230	HG2	ARG	271	49.366	37.704	17.729	1.00	0.00	H
ATOM	4231	HG3	ARG	271	50.491	38.189	16.449	1.00	0.00	H
ATOM	4232	CD	ARG	271	50.817	36.214	17.220	1.00	0.00	C
ATOM	4233	HD2	ARG	271	51.826	36.187	16.812	1.00	0.00	H
ATOM	4234	HD3	ARG	271	50.821	35.718	18.193	1.00	0.00	H
ATOM	4235	NE	ARG	271	49.877	35.507	16.322	1.00	0.00	N
ATOM	4236	HE	ARG	271	48.954	35.919	16.204	1.00	0.00	H
ATOM	4237	CZ	ARG	271	50.094	34.395	15.638	1.00	0.00	C
ATOM	4238	NH1	ARG	271	51.289	33.897	15.490	1.00	0.00	N
ATOM	4239	HH11	ARG	271	52.095	34.430	15.781	1.00	0.00	H
ATOM	4240	HH12	ARG	271	51.425	33.035	14.980	1.00	0.00	H
ATOM	4241	NH2	ARG	271	49.112	33.750	15.078	1.00	0.00	N
ATOM	4242	HH21	ARG	271	48.153	33.960	15.364	1.00	0.00	H
ATOM	4243	HH22	ARG	271	49.288	32.868	14.609	1.00	0.00	H
ATOM	4244	C	ARG	271	49.510	40.264	18.524	1.00	0.00	C
ATOM	4245	O	ARG	271	48.872	40.472	17.500	1.00	0.00	O
ATOM	4246	N	ARG	272	48.949	40.337	19.733	1.00	0.00	N
ATOM	4247	H	ARG	272	49.543	40.140	20.535	1.00	0.00	H
ATOM	4248	CA	ARG	272	47.526	40.624	19.973	1.00	0.00	C
ATOM	4249	HA	ARG	272	46.944	40.083	19.229	1.00	0.00	H
ATOM	4250	CB	ARG	272	47.127	40.094	21.368	1.00	0.00	C
ATOM	4251	HB2	ARG	272	47.810	40.505	22.106	1.00	0.00	H
ATOM	4252	HB3	ARG	272	46.124	40.437	21.629	1.00	0.00	H
ATOM	4253	CG	ARG	272	47.160	38.550	21.450	1.00	0.00	C
ATOM	4254	HG2	ARG	272	48.064	38.176	20.966	1.00	0.00	H
ATOM	4255	HG3	ARG	272	47.208	38.255	22.498	1.00	0.00	H
ATOM	4256	CD	ARG	272	45.946	37.867	20.811	1.00	0.00	C
ATOM	4257	HD2	ARG	272	45.067	38.051	21.436	1.00	0.00	H
ATOM	4258	HD3	ARG	272	45.750	38.320	19.839	1.00	0.00	H
ATOM	4259	NE	ARG	272	46.151	36.405	20.673	1.00	0.00	N
ATOM	4260	HE	ARG	272	46.252	35.863	21.517	1.00	0.00	H
ATOM	4261	CZ	ARG	272	46.204	35.705	19.549	1.00	0.00	C

ATOM	4262	NH1	ARG	272	46.079	36.249	18.374	1.00	0.00	N
ATOM	4263	HH11	ARG	272	45.899	37.226	18.281	1.00	0.00	H
ATOM	4264	HH12	ARG	272	46.120	35.641	17.559	1.00	0.00	H
ATOM	4265	NH2	ARG	272	46.390	34.419	19.567	1.00	0.00	N
ATOM	4266	HH21	ARG	272	46.524	33.915	20.445	1.00	0.00	H
ATOM	4267	HH22	ARG	272	46.365	33.916	18.686	1.00	0.00	H
ATOM	4268	C	ARG	272	47.142	42.094	19.743	1.00	0.00	C
ATOM	4269	O	ARG	272	45.954	42.340	19.586	1.00	0.00	O
ATOM	4270	N	ILE	273	48.092	43.027	19.635	1.00	0.00	N
ATOM	4271	H	ILE	273	49.020	42.772	19.953	1.00	0.00	H
ATOM	4272	CA	ILE	273	47.906	44.387	19.084	1.00	0.00	C
ATOM	4273	HA	ILE	273	46.928	44.769	19.387	1.00	0.00	H
ATOM	4274	CB	ILE	273	48.996	45.331	19.651	1.00	0.00	C
ATOM	4275	HB	ILE	273	49.962	44.841	19.528	1.00	0.00	H
ATOM	4276	CG2	ILE	273	49.060	46.681	18.909	1.00	0.00	C
ATOM	4277	HG21	ILE	273	49.384	46.533	17.879	1.00	0.00	H
ATOM	4278	HG22	ILE	273	49.777	47.347	19.388	1.00	0.00	H
ATOM	4279	HG23	ILE	273	48.079	47.154	18.910	1.00	0.00	H
ATOM	4280	CG1	ILE	273	48.763	45.593	21.157	1.00	0.00	C
ATOM	4281	HG12	ILE	273	48.007	46.366	21.281	1.00	0.00	H
ATOM	4282	HG13	ILE	273	48.387	44.693	21.642	1.00	0.00	H
ATOM	4283	CD1	ILE	273	50.044	46.009	21.890	1.00	0.00	C
ATOM	4284	HD11	ILE	273	50.822	45.263	21.741	1.00	0.00	H
ATOM	4285	HD12	ILE	273	49.835	46.089	22.956	1.00	0.00	H
ATOM	4286	HD13	ILE	273	50.396	46.975	21.531	1.00	0.00	H
ATOM	4287	C	ILE	273	47.920	44.361	17.543	1.00	0.00	C
ATOM	4288	O	ILE	273	47.177	45.098	16.903	1.00	0.00	O
ATOM	4289	N	GLN	274	48.713	43.470	16.937	1.00	0.00	N
ATOM	4290	H	GLN	274	49.328	42.919	17.523	1.00	0.00	H
ATOM	4291	CA	GLN	274	48.678	43.131	15.501	1.00	0.00	C
ATOM	4292	HA	GLN	274	48.528	44.058	14.947	1.00	0.00	H
ATOM	4293	CB	GLN	274	50.061	42.549	15.126	1.00	0.00	C
ATOM	4294	HB2	GLN	274	50.834	43.128	15.634	1.00	0.00	H
ATOM	4295	HB3	GLN	274	50.129	41.531	15.508	1.00	0.00	H
ATOM	4296	CG	GLN	274	50.412	42.512	13.625	1.00	0.00	C
ATOM	4297	HG2	GLN	274	51.411	42.089	13.532	1.00	0.00	H
ATOM	4298	HG3	GLN	274	49.731	41.855	13.089	1.00	0.00	H
ATOM	4299	CD	GLN	274	50.433	43.876	12.940	1.00	0.00	C
ATOM	4300	OE1	GLN	274	49.962	44.048	11.827	1.00	0.00	O
ATOM	4301	NE2	GLN	274	50.978	44.903	13.556	1.00	0.00	N
ATOM	4302	HE21	GLN	274	50.999	45.767	13.047	1.00	0.00	H
ATOM	4303	HE22	GLN	274	51.391	44.790	14.464	1.00	0.00	H
ATOM	4304	C	GLN	274	47.497	42.190	15.129	1.00	0.00	C
ATOM	4305	O	GLN	274	47.473	41.599	14.048	1.00	0.00	O
ATOM	4306	N	GLN	275	46.532	42.004	16.036	1.00	0.00	N
ATOM	4307	H	GLN	275	46.563	42.601	16.851	1.00	0.00	H
ATOM	4308	CA	GLN	275	45.361	41.120	15.949	1.00	0.00	C
ATOM	4309	HA	GLN	275	44.930	41.187	14.951	1.00	0.00	H
ATOM	4310	CB	GLN	275	45.794	39.651	16.225	1.00	0.00	C
ATOM	4311	HB2	GLN	275	46.658	39.633	16.883	1.00	0.00	H
ATOM	4312	HB3	GLN	275	45.021	39.098	16.754	1.00	0.00	H
ATOM	4313	CG	GLN	275	46.082	38.853	14.944	1.00	0.00	C

ATOM	4314	HG2	GLN	275	45.376	38.025	14.879	1.00	0.00	H
ATOM	4315	HG3	GLN	275	45.925	39.469	14.059	1.00	0.00	H
ATOM	4316	CD	GLN	275	47.489	38.271	14.904	1.00	0.00	C
ATOM	4317	OE1	GLN	275	47.782	37.247	15.506	1.00	0.00	O
ATOM	4318	NE2	GLN	275	48.384	38.884	14.167	1.00	0.00	N
ATOM	4319	HE21	GLN	275	49.283	38.441	14.031	1.00	0.00	H
ATOM	4320	HE22	GLN	275	48.161	39.801	13.792	1.00	0.00	H
ATOM	4321	C	GLN	275	44.280	41.632	16.926	1.00	0.00	C
ATOM	4322	O	GLN	275	44.281	42.804	17.294	1.00	0.00	O
ATOM	4323	N	SER	276	43.342	40.775	17.340	1.00	0.00	N
ATOM	4324	H	SER	276	43.378	39.839	16.953	1.00	0.00	H
ATOM	4325	CA	SER	276	42.277	40.993	18.339	1.00	0.00	C
ATOM	4326	HA	SER	276	41.756	40.040	18.429	1.00	0.00	H
ATOM	4327	CB	SER	276	42.848	41.294	19.732	1.00	0.00	C
ATOM	4328	HB2	SER	276	43.076	42.359	19.806	1.00	0.00	H
ATOM	4329	HB3	SER	276	42.099	41.040	20.483	1.00	0.00	H
ATOM	4330	OG	SER	276	44.026	40.568	20.002	1.00	0.00	O
ATOM	4331	HG	SER	276	44.751	41.201	19.819	1.00	0.00	H
ATOM	4332	C	SER	276	41.198	42.023	17.969	1.00	0.00	C
ATOM	4333	O	SER	276	40.052	41.857	18.394	1.00	0.00	O
ATOM	4334	N	GLY	277	41.529	43.036	17.167	1.00	0.00	N
ATOM	4335	H	GLY	277	42.514	43.113	16.926	1.00	0.00	H
ATOM	4336	CA	GLY	277	40.639	44.022	16.551	1.00	0.00	C
ATOM	4337	HA2	GLY	277	39.692	43.553	16.281	1.00	0.00	H
ATOM	4338	HA3	GLY	277	40.435	44.818	17.266	1.00	0.00	H
ATOM	4339	C	GLY	277	41.267	44.634	15.286	1.00	0.00	C
ATOM	4340	O	GLY	277	42.271	44.137	14.768	1.00	0.00	O
ATOM	4341	N	SER	278	40.670	45.699	14.752	1.00	0.00	N
ATOM	4342	H	SER	278	39.790	45.995	15.154	1.00	0.00	H
ATOM	4343	CA	SER	278	41.227	46.563	13.688	1.00	0.00	C
ATOM	4344	HA	SER	278	42.276	46.777	13.901	1.00	0.00	H
ATOM	4345	CB	SER	278	41.127	45.908	12.304	1.00	0.00	C
ATOM	4346	HB2	SER	278	40.160	45.414	12.194	1.00	0.00	H
ATOM	4347	HB3	SER	278	41.228	46.667	11.526	1.00	0.00	H
ATOM	4348	OG	SER	278	42.176	44.969	12.159	1.00	0.00	O
ATOM	4349	HG	SER	278	42.300	44.556	13.031	1.00	0.00	H
ATOM	4350	C	SER	278	40.458	47.882	13.688	1.00	0.00	C
ATOM	4351	O	SER	278	39.227	47.848	13.746	1.00	0.00	O
ATOM	4352	N	ALA	279	41.174	49.012	13.725	1.00	0.00	N
ATOM	4353	H	ALA	279	42.157	48.926	13.488	1.00	0.00	H
ATOM	4354	CA	ALA	279	40.727	50.345	14.186	1.00	0.00	C
ATOM	4355	HA	ALA	279	41.613	50.981	14.195	1.00	0.00	H
ATOM	4356	CB	ALA	279	39.766	50.951	13.153	1.00	0.00	C
ATOM	4357	HB1	ALA	279	38.837	50.382	13.123	1.00	0.00	H
ATOM	4358	HB2	ALA	279	40.227	50.943	12.164	1.00	0.00	H
ATOM	4359	HB3	ALA	279	39.535	51.980	13.429	1.00	0.00	H
ATOM	4360	C	ALA	279	40.164	50.411	15.634	1.00	0.00	C
ATOM	4361	O	ALA	279	40.266	51.450	16.289	1.00	0.00	O
ATOM	4362	N	ASP	280	39.611	49.307	16.137	1.00	0.00	N
ATOM	4363	H	ASP	280	39.412	48.584	15.461	1.00	0.00	H
ATOM	4364	CA	ASP	280	39.051	49.117	17.476	1.00	0.00	C
ATOM	4365	HA	ASP	280	38.244	49.840	17.602	1.00	0.00	H

ATOM	4366	CB	ASP	280	38.450	47.702	17.572	1.00	0.00	C
ATOM	4367	HB2	ASP	280	39.255	46.977	17.440	1.00	0.00	H
ATOM	4368	HB3	ASP	280	38.042	47.562	18.574	1.00	0.00	H
ATOM	4369	CG	ASP	280	37.333	47.378	16.574	1.00	0.00	C
ATOM	4370	OD1	ASP	280	36.690	48.301	16.034	1.00	0.00	O
ATOM	4371	OD2	ASP	280	37.057	46.164	16.401	1.00	0.00	O
ATOM	4372	C	ASP	280	40.047	49.308	18.639	1.00	0.00	C
ATOM	4373	O	ASP	280	41.262	49.156	18.509	1.00	0.00	O
ATOM	4374	N	LEU	281	39.486	49.529	19.833	1.00	0.00	N
ATOM	4375	H	LEU	281	38.481	49.602	19.838	1.00	0.00	H
ATOM	4376	CA	LEU	281	40.163	49.872	21.093	1.00	0.00	C
ATOM	4377	HA	LEU	281	40.639	50.845	20.959	1.00	0.00	H
ATOM	4378	CB	LEU	281	39.043	49.989	22.150	1.00	0.00	C
ATOM	4379	HB2	LEU	281	38.190	50.510	21.710	1.00	0.00	H
ATOM	4380	HB3	LEU	281	38.714	48.979	22.400	1.00	0.00	H
ATOM	4381	CG	LEU	281	39.413	50.724	23.452	1.00	0.00	C
ATOM	4382	HG	LEU	281	40.327	50.319	23.874	1.00	0.00	H
ATOM	4383	CD1	LEU	281	39.609	52.220	23.202	1.00	0.00	C
ATOM	4384	HD11	LEU	281	40.513	52.381	22.615	1.00	0.00	H
ATOM	4385	HD12	LEU	281	39.722	52.747	24.148	1.00	0.00	H
ATOM	4386	HD13	LEU	281	38.758	52.637	22.665	1.00	0.00	H
ATOM	4387	CD2	LEU	281	38.292	50.506	24.470	1.00	0.00	C
ATOM	4388	HD21	LEU	281	37.338	50.829	24.055	1.00	0.00	H
ATOM	4389	HD22	LEU	281	38.224	49.447	24.722	1.00	0.00	H
ATOM	4390	HD23	LEU	281	38.505	51.065	25.381	1.00	0.00	H
ATOM	4391	C	LEU	281	41.258	48.888	21.566	1.00	0.00	C
ATOM	4392	O	LEU	281	42.070	49.232	22.420	1.00	0.00	O
ATOM	4393	N	ARG	282	41.310	47.665	21.024	1.00	0.00	N
ATOM	4394	H	ARG	282	40.683	47.494	20.250	1.00	0.00	H
ATOM	4395	CA	ARG	282	42.277	46.608	21.391	1.00	0.00	C
ATOM	4396	HA	ARG	282	42.326	46.564	22.480	1.00	0.00	H
ATOM	4397	CB	ARG	282	41.758	45.244	20.885	1.00	0.00	C
ATOM	4398	HB2	ARG	282	41.428	45.341	19.848	1.00	0.00	H
ATOM	4399	HB3	ARG	282	42.569	44.515	20.913	1.00	0.00	H
ATOM	4400	CG	ARG	282	40.607	44.700	21.757	1.00	0.00	C
ATOM	4401	HG2	ARG	282	40.995	44.496	22.757	1.00	0.00	H
ATOM	4402	HG3	ARG	282	39.807	45.438	21.832	1.00	0.00	H
ATOM	4403	CD	ARG	282	40.038	43.406	21.160	1.00	0.00	C
ATOM	4404	HD2	ARG	282	39.435	43.660	20.285	1.00	0.00	H
ATOM	4405	HD3	ARG	282	40.870	42.786	20.835	1.00	0.00	H
ATOM	4406	NE	ARG	282	39.229	42.626	22.119	1.00	0.00	N
ATOM	4407	HE	ARG	282	39.137	42.967	23.066	1.00	0.00	H
ATOM	4408	CZ	ARG	282	38.641	41.464	21.878	1.00	0.00	C
ATOM	4409	NH1	ARG	282	38.676	40.898	20.708	1.00	0.00	N
ATOM	4410	HH11	ARG	282	39.142	41.373	19.947	1.00	0.00	H
ATOM	4411	HH12	ARG	282	38.296	39.968	20.566	1.00	0.00	H
ATOM	4412	NH2	ARG	282	37.999	40.869	22.837	1.00	0.00	N
ATOM	4413	HH21	ARG	282	38.020	41.283	23.759	1.00	0.00	H
ATOM	4414	HH22	ARG	282	37.501	39.997	22.686	1.00	0.00	H
ATOM	4415	C	ARG	282	43.738	46.896	20.977	1.00	0.00	C
ATOM	4416	O	ARG	282	44.604	46.058	21.217	1.00	0.00	O
ATOM	4417	N	LYS	283	44.039	48.088	20.440	1.00	0.00	N



ATOM	4418	H	LYS	283	43.253	48.700	20.268	1.00	0.00	H
ATOM	4419	CA	LYS	283	45.389	48.660	20.218	1.00	0.00	C
ATOM	4420	HA	LYS	283	45.997	47.891	19.740	1.00	0.00	H
ATOM	4421	CB	LYS	283	45.243	49.845	19.238	1.00	0.00	C
ATOM	4422	HB2	LYS	283	44.477	49.601	18.499	1.00	0.00	H
ATOM	4423	HB3	LYS	283	44.911	50.734	19.779	1.00	0.00	H
ATOM	4424	CG	LYS	283	46.540	50.147	18.474	1.00	0.00	C
ATOM	4425	HG2	LYS	283	47.350	50.342	19.179	1.00	0.00	H
ATOM	4426	HG3	LYS	283	46.802	49.277	17.870	1.00	0.00	H
ATOM	4427	CD	LYS	283	46.365	51.368	17.557	1.00	0.00	C
ATOM	4428	HD2	LYS	283	45.467	51.249	16.947	1.00	0.00	H
ATOM	4429	HD3	LYS	283	46.253	52.257	18.176	1.00	0.00	H
ATOM	4430	CE	LYS	283	47.581	51.521	16.638	1.00	0.00	C
ATOM	4431	HE2	LYS	283	48.489	51.411	17.238	1.00	0.00	H
ATOM	4432	HE3	LYS	283	47.561	50.716	15.898	1.00	0.00	H
ATOM	4433	NZ	LYS	283	47.608	52.837	15.957	1.00	0.00	N
ATOM	4434	HZ1	LYS	283	47.825	53.574	16.623	1.00	0.00	H
ATOM	4435	HZ2	LYS	283	46.721	53.093	15.525	1.00	0.00	H
ATOM	4436	HZ3	LYS	283	48.346	52.866	15.258	1.00	0.00	H
ATOM	4437	C	LYS	283	46.095	49.029	21.551	1.00	0.00	C
ATOM	4438	O	LYS	283	46.441	50.181	21.817	1.00	0.00	O
ATOM	4439	N	LEU	284	46.208	48.029	22.424	1.00	0.00	N
ATOM	4440	H	LEU	284	45.922	47.123	22.076	1.00	0.00	H
ATOM	4441	CA	LEU	284	46.495	48.103	23.861	1.00	0.00	C
ATOM	4442	HA	LEU	284	45.817	48.840	24.289	1.00	0.00	H
ATOM	4443	CB	LEU	284	46.151	46.704	24.430	1.00	0.00	C
ATOM	4444	HB2	LEU	284	45.174	46.410	24.042	1.00	0.00	H
ATOM	4445	HB3	LEU	284	46.881	45.993	24.039	1.00	0.00	H
ATOM	4446	CG	LEU	284	46.102	46.548	25.963	1.00	0.00	C
ATOM	4447	HG	LEU	284	47.078	46.755	26.397	1.00	0.00	H
ATOM	4448	CD1	LEU	284	45.060	47.480	26.579	1.00	0.00	C
ATOM	4449	HD11	LEU	284	45.364	48.520	26.478	1.00	0.00	H
ATOM	4450	HD12	LEU	284	44.950	47.257	27.639	1.00	0.00	H
ATOM	4451	HD13	LEU	284	44.101	47.332	26.086	1.00	0.00	H
ATOM	4452	CD2	LEU	284	45.725	45.113	26.329	1.00	0.00	C
ATOM	4453	HD21	LEU	284	44.728	44.875	25.956	1.00	0.00	H
ATOM	4454	HD22	LEU	284	46.448	44.421	25.898	1.00	0.00	H
ATOM	4455	HD23	LEU	284	45.739	44.997	27.414	1.00	0.00	H
ATOM	4456	C	LEU	284	47.935	48.538	24.208	1.00	0.00	C
ATOM	4457	O	LEU	284	48.837	48.483	23.381	1.00	0.00	O
ATOM	4458	N	ASP	285	48.159	48.913	25.470	1.00	0.00	N
ATOM	4459	H	ASP	285	47.371	48.949	26.100	1.00	0.00	H
ATOM	4460	CA	ASP	285	49.474	49.101	26.092	1.00	0.00	C
ATOM	4461	HA	ASP	285	50.220	48.521	25.545	1.00	0.00	H
ATOM	4462	CB	ASP	285	49.877	50.582	26.046	1.00	0.00	C
ATOM	4463	HB2	ASP	285	49.003	51.197	26.266	1.00	0.00	H
ATOM	4464	HB3	ASP	285	50.620	50.767	26.824	1.00	0.00	H
ATOM	4465	CG	ASP	285	50.492	51.014	24.716	1.00	0.00	C
ATOM	4466	OD1	ASP	285	51.588	50.498	24.388	1.00	0.00	O
ATOM	4467	OD2	ASP	285	49.962	51.965	24.087	1.00	0.00	O
ATOM	4468	C	ASP	285	49.445	48.594	27.546	1.00	0.00	C
ATOM	4469	O	ASP	285	48.472	48.820	28.266	1.00	0.00	O

ATOM	4470	N	CYS	286	50.518	47.935	27.988	1.00	0.00	N
ATOM	4471	H	CYS	286	51.316	47.853	27.376	1.00	0.00	H
ATOM	4472	CA	CYS	286	50.641	47.306	29.309	1.00	0.00	C
ATOM	4473	HA	CYS	286	49.805	47.607	29.944	1.00	0.00	H
ATOM	4474	CB	CYS	286	50.572	45.782	29.120	1.00	0.00	C
ATOM	4475	HB2	CYS	286	49.652	45.533	28.588	1.00	0.00	H
ATOM	4476	HB3	CYS	286	51.423	45.447	28.525	1.00	0.00	H
ATOM	4477	SG	CYS	286	50.568	44.899	30.709	1.00	0.00	S
ATOM	4478	HG	CYS	286	51.722	45.353	31.215	1.00	0.00	H
ATOM	4479	C	CYS	286	51.938	47.743	30.008	1.00	0.00	C
ATOM	4480	O	CYS	286	52.919	48.083	29.340	1.00	0.00	O
ATOM	4481	N	ARG	287	51.942	47.711	31.343	1.00	0.00	N
ATOM	4482	H	ARG	287	51.066	47.461	31.805	1.00	0.00	H
ATOM	4483	CA	ARG	287	53.078	47.996	32.230	1.00	0.00	C
ATOM	4484	HA	ARG	287	53.995	48.011	31.647	1.00	0.00	H
ATOM	4485	CB	ARG	287	52.856	49.368	32.890	1.00	0.00	C
ATOM	4486	HB2	ARG	287	51.919	49.338	33.450	1.00	0.00	H
ATOM	4487	HB3	ARG	287	53.658	49.529	33.605	1.00	0.00	H
ATOM	4488	CG	ARG	287	52.800	50.564	31.909	1.00	0.00	C
ATOM	4489	HG2	ARG	287	51.950	50.447	31.237	1.00	0.00	H
ATOM	4490	HG3	ARG	287	52.652	51.478	32.485	1.00	0.00	H
ATOM	4491	CD	ARG	287	54.089	50.701	31.087	1.00	0.00	C
ATOM	4492	HD2	ARG	287	54.918	50.780	31.786	1.00	0.00	H
ATOM	4493	HD3	ARG	287	54.237	49.794	30.504	1.00	0.00	H
ATOM	4494	NE	ARG	287	54.083	51.845	30.147	1.00	0.00	N
ATOM	4495	HE	ARG	287	53.270	51.966	29.569	1.00	0.00	H
ATOM	4496	CZ	ARG	287	55.119	52.620	29.862	1.00	0.00	C
ATOM	4497	NH1	ARG	287	56.229	52.579	30.527	1.00	0.00	N
ATOM	4498	HH11	ARG	287	56.386	51.927	31.275	1.00	0.00	H
ATOM	4499	HH12	ARG	287	57.041	53.073	30.181	1.00	0.00	H
ATOM	4500	NH2	ARG	287	55.111	53.452	28.865	1.00	0.00	N
ATOM	4501	HH21	ARG	287	54.377	53.462	28.159	1.00	0.00	H
ATOM	4502	HH22	ARG	287	55.941	53.977	28.662	1.00	0.00	H
ATOM	4503	C	ARG	287	53.247	46.872	33.263	1.00	0.00	C
ATOM	4504	O	ARG	287	52.285	46.164	33.553	1.00	0.00	O
ATOM	4505	N	PHE	288	54.469	46.654	33.755	1.00	0.00	N
ATOM	4506	H	PHE	288	55.224	47.232	33.411	1.00	0.00	H
ATOM	4507	CA	PHE	288	54.853	45.408	34.435	1.00	0.00	C
ATOM	4508	HA	PHE	288	53.984	44.984	34.940	1.00	0.00	H
ATOM	4509	CB	PHE	288	55.325	44.429	33.342	1.00	0.00	C
ATOM	4510	HB2	PHE	288	54.831	44.674	32.400	1.00	0.00	H
ATOM	4511	HB3	PHE	288	56.389	44.579	33.174	1.00	0.00	H
ATOM	4512	CG	PHE	288	55.083	42.957	33.599	1.00	0.00	C
ATOM	4513	CD1	PHE	288	54.020	42.303	32.945	1.00	0.00	C
ATOM	4514	HD1	PHE	288	53.350	42.860	32.305	1.00	0.00	H
ATOM	4515	CE1	PHE	288	53.824	40.922	33.114	1.00	0.00	C
ATOM	4516	HE1	PHE	288	53.003	40.425	32.617	1.00	0.00	H
ATOM	4517	CZ	PHE	288	54.699	40.188	33.931	1.00	0.00	C
ATOM	4518	HZ	PHE	288	54.553	39.124	34.057	1.00	0.00	H
ATOM	4519	CE2	PHE	288	55.759	40.839	34.586	1.00	0.00	C
ATOM	4520	HE2	PHE	288	56.426	40.269	35.215	1.00	0.00	H
ATOM	4521	CD2	PHE	288	55.953	42.221	34.424	1.00	0.00	C

ATOM	4522	HD2 PHE	288	56.777	42.711	34.923	1.00	0.00	H
ATOM	4523	C PHE	288	55.961	45.639	35.483	1.00	0.00	C
ATOM	4524	O PHE	288	56.941	46.331	35.196	1.00	0.00	O
ATOM	4525	N GLY	289	55.834	45.042	36.672	1.00	0.00	N
ATOM	4526	H GLY	289	54.985	44.511	36.855	1.00	0.00	H
ATOM	4527	CA GLY	289	56.782	45.153	37.788	1.00	0.00	C
ATOM	4528	HA2 GLY	289	57.724	45.549	37.428	1.00	0.00	H
ATOM	4529	HA3 GLY	289	56.397	45.857	38.523	1.00	0.00	H
ATOM	4530	C GLY	289	57.023	43.822	38.510	1.00	0.00	C
ATOM	4531	O GLY	289	56.078	43.056	38.711	1.00	0.00	O
ATOM	4532	N ILE	290	58.273	43.537	38.908	1.00	0.00	N
ATOM	4533	H ILE	290	59.008	44.191	38.663	1.00	0.00	H
ATOM	4534	CA ILE	290	58.652	42.275	39.583	1.00	0.00	C
ATOM	4535	HA ILE	290	57.739	41.838	39.985	1.00	0.00	H
ATOM	4536	CB ILE	290	59.260	41.229	38.606	1.00	0.00	C
ATOM	4537	HB ILE	290	60.301	41.505	38.433	1.00	0.00	H
ATOM	4538	CG2 ILE	290	59.252	39.830	39.257	1.00	0.00	C
ATOM	4539	HG21 ILE	290	59.737	39.842	40.231	1.00	0.00	H
ATOM	4540	HG22 ILE	290	59.792	39.114	38.638	1.00	0.00	H
ATOM	4541	HG23 ILE	290	58.225	39.482	39.380	1.00	0.00	H
ATOM	4542	CG1 ILE	290	58.563	41.176	37.226	1.00	0.00	C
ATOM	4543	HG12 ILE	290	57.512	40.915	37.358	1.00	0.00	H
ATOM	4544	HG13 ILE	290	58.614	42.160	36.761	1.00	0.00	H
ATOM	4545	CD1 ILE	290	59.204	40.192	36.237	1.00	0.00	C
ATOM	4546	HD11 ILE	290	60.288	40.302	36.248	1.00	0.00	H
ATOM	4547	HD12 ILE	290	58.844	40.409	35.234	1.00	0.00	H
ATOM	4548	HD13 ILE	290	58.938	39.166	36.492	1.00	0.00	H
ATOM	4549	C ILE	290	59.606	42.501	40.771	1.00	0.00	C
ATOM	4550	O ILE	290	60.665	43.121	40.622	1.00	0.00	O
ATOM	4551	N ASN	291	59.286	41.894	41.919	1.00	0.00	N
ATOM	4552	H ASN	291	58.433	41.338	41.919	1.00	0.00	H
ATOM	4553	CA ASN	291	60.156	41.763	43.096	1.00	0.00	C
ATOM	4554	HA ASN	291	61.156	42.122	42.848	1.00	0.00	H
ATOM	4555	CB ASN	291	59.615	42.619	44.257	1.00	0.00	C
ATOM	4556	HB2 ASN	291	58.530	42.618	44.252	1.00	0.00	H
ATOM	4557	HB3 ASN	291	59.929	42.202	45.213	1.00	0.00	H
ATOM	4558	CG ASN	291	60.108	44.044	44.179	1.00	0.00	C
ATOM	4559	OD1 ASN	291	59.619	44.865	43.429	1.00	0.00	O
ATOM	4560	ND2 ASN	291	61.111	44.388	44.955	1.00	0.00	N
ATOM	4561	HD21 ASN	291	61.561	43.725	45.557	1.00	0.00	H
ATOM	4562	HD22 ASN	291	61.436	45.332	44.860	1.00	0.00	H
ATOM	4563	C ASN	291	60.311	40.295	43.526	1.00	0.00	C
ATOM	4564	O ASN	291	59.527	39.434	43.141	1.00	0.00	O
ATOM	4565	N ALA	292	61.292	40.016	44.386	1.00	0.00	N
ATOM	4566	H ALA	292	61.922	40.750	44.668	1.00	0.00	H
ATOM	4567	CA ALA	292	61.432	38.732	45.069	1.00	0.00	C
ATOM	4568	HA ALA	292	60.464	38.232	45.068	1.00	0.00	H
ATOM	4569	CB ALA	292	62.423	37.845	44.303	1.00	0.00	C
ATOM	4570	HB1 ALA	292	63.407	38.312	44.278	1.00	0.00	H
ATOM	4571	HB2 ALA	292	62.071	37.698	43.281	1.00	0.00	H
ATOM	4572	HB3 ALA	292	62.496	36.871	44.789	1.00	0.00	H
ATOM	4573	C ALA	292	61.828	38.946	46.538	1.00	0.00	C

ATOM	4574	O	ALA	292	62.544	39.901	46.858	1.00	0.00	O
ATOM	4575	N	GLY	293	61.343	38.083	47.429	1.00	0.00	N
ATOM	4576	H	GLY	293	60.737	37.334	47.100	1.00	0.00	H
ATOM	4577	CA	GLY	293	61.498	38.229	48.878	1.00	0.00	C
ATOM	4578	HA2	GLY	293	62.527	38.002	49.157	1.00	0.00	H
ATOM	4579	HA3	GLY	293	61.282	39.258	49.166	1.00	0.00	H
ATOM	4580	C	GLY	293	60.566	37.304	49.661	1.00	0.00	C
ATOM	4581	O	GLY	293	59.837	36.507	49.077	1.00	0.00	O
ATOM	4582	N	ASP	294	60.608	37.384	50.990	1.00	0.00	N
ATOM	4583	H	ASP	294	61.195	38.078	51.424	1.00	0.00	H
ATOM	4584	CA	ASP	294	59.771	36.555	51.867	1.00	0.00	C
ATOM	4585	HA	ASP	294	59.830	35.530	51.506	1.00	0.00	H
ATOM	4586	CB	ASP	294	60.347	36.575	53.296	1.00	0.00	C
ATOM	4587	HB2	ASP	294	61.431	36.696	53.240	1.00	0.00	H
ATOM	4588	HB3	ASP	294	59.944	37.432	53.839	1.00	0.00	H
ATOM	4589	CG	ASP	294	60.065	35.287	54.081	1.00	0.00	C
ATOM	4590	OD1	ASP	294	59.229	34.486	53.604	1.00	0.00	O
ATOM	4591	OD2	ASP	294	60.700	35.112	55.148	1.00	0.00	O
ATOM	4592	C	ASP	294	58.287	36.970	51.805	1.00	0.00	C
ATOM	4593	O	ASP	294	57.965	38.140	51.551	1.00	0.00	O
ATOM	4594	N	CYS	295	57.367	36.026	52.005	1.00	0.00	N
ATOM	4595	H	CYS	295	57.693	35.088	52.238	1.00	0.00	H
ATOM	4596	CA	CYS	295	55.924	36.266	51.988	1.00	0.00	C
ATOM	4597	HA	CYS	295	55.765	37.228	52.453	1.00	0.00	H
ATOM	4598	CB	CYS	295	55.417	36.353	50.538	1.00	0.00	C
ATOM	4599	HB2	CYS	295	54.452	36.861	50.523	1.00	0.00	H
ATOM	4600	HB3	CYS	295	56.119	36.932	49.936	1.00	0.00	H
ATOM	4601	SG	CYS	295	55.217	34.704	49.811	1.00	0.00	S
ATOM	4602	HG	CYS	295	56.446	34.248	50.119	1.00	0.00	H
ATOM	4603	C	CYS	295	55.132	35.262	52.834	1.00	0.00	C
ATOM	4604	O	CYS	295	55.550	34.127	53.051	1.00	0.00	O
ATOM	4605	N	MET	296	53.968	35.690	53.324	1.00	0.00	N
ATOM	4606	H	MET	296	53.676	36.644	53.145	1.00	0.00	H
ATOM	4607	CA	MET	296	53.080	34.869	54.142	1.00	0.00	C
ATOM	4608	HA	MET	296	53.658	34.059	54.591	1.00	0.00	H
ATOM	4609	CB	MET	296	52.545	35.749	55.279	1.00	0.00	C
ATOM	4610	HB2	MET	296	53.367	36.369	55.633	1.00	0.00	H
ATOM	4611	HB3	MET	296	51.759	36.414	54.920	1.00	0.00	H
ATOM	4612	CG	MET	296	52.022	34.924	56.454	1.00	0.00	C
ATOM	4613	HG2	MET	296	51.067	34.479	56.174	1.00	0.00	H
ATOM	4614	HG3	MET	296	52.726	34.119	56.668	1.00	0.00	H
ATOM	4615	SD	MET	296	51.801	35.893	57.969	1.00	0.00	S
ATOM	4616	CE	MET	296	53.521	36.347	58.357	1.00	0.00	C
ATOM	4617	HE1	MET	296	53.898	37.062	57.625	1.00	0.00	H
ATOM	4618	HE2	MET	296	53.564	36.811	59.342	1.00	0.00	H
ATOM	4619	HE3	MET	296	54.150	35.458	58.355	1.00	0.00	H
ATOM	4620	C	MET	296	51.987	34.247	53.267	1.00	0.00	C
ATOM	4621	O	MET	296	50.989	34.896	52.952	1.00	0.00	O
ATOM	4622	N	VAL	297	52.209	33.010	52.823	1.00	0.00	N
ATOM	4623	H	VAL	297	53.060	32.547	53.130	1.00	0.00	H
ATOM	4624	CA	VAL	297	51.274	32.229	51.995	1.00	0.00	C
ATOM	4625	HA	VAL	297	50.782	32.896	51.291	1.00	0.00	H

ATOM	4626	CB	VAL	297	52.018	31.141	51.190	1.00	0.00	C
ATOM	4627	HB	VAL	297	52.409	30.395	51.881	1.00	0.00	H
ATOM	4628	CG1	VAL	297	51.078	30.432	50.205	1.00	0.00	C
ATOM	4629	HG11	VAL	297	51.635	29.697	49.624	1.00	0.00	H
ATOM	4630	HG12	VAL	297	50.289	29.907	50.744	1.00	0.00	H
ATOM	4631	HG13	VAL	297	50.629	31.159	49.528	1.00	0.00	H
ATOM	4632	CG2	VAL	297	53.207	31.697	50.394	1.00	0.00	C
ATOM	4633	HG21	VAL	297	53.677	30.901	49.817	1.00	0.00	H
ATOM	4634	HG22	VAL	297	53.957	32.109	51.070	1.00	0.00	H
ATOM	4635	HG23	VAL	297	52.872	32.480	49.715	1.00	0.00	H
ATOM	4636	C	VAL	297	50.214	31.577	52.883	1.00	0.00	C
ATOM	4637	O	VAL	297	50.574	30.914	53.856	1.00	0.00	O
ATOM	4638	N	GLY	298	48.925	31.702	52.557	1.00	0.00	N
ATOM	4639	H	GLY	298	48.664	32.281	51.762	1.00	0.00	H
ATOM	4640	CA	GLY	298	47.870	31.005	53.297	1.00	0.00	C
ATOM	4641	HA2	GLY	298	47.922	29.943	53.061	1.00	0.00	H
ATOM	4642	HA3	GLY	298	48.065	31.116	54.364	1.00	0.00	H
ATOM	4643	C	GLY	298	46.440	31.481	53.040	1.00	0.00	C
ATOM	4644	O	GLY	298	46.154	32.227	52.101	1.00	0.00	O
ATOM	4645	N	VAL	299	45.541	31.012	53.910	1.00	0.00	N
ATOM	4646	H	VAL	299	45.883	30.425	54.655	1.00	0.00	H
ATOM	4647	CA	VAL	299	44.141	31.446	54.013	1.00	0.00	C
ATOM	4648	HA	VAL	299	43.696	31.421	53.022	1.00	0.00	H
ATOM	4649	CB	VAL	299	43.350	30.485	54.929	1.00	0.00	C
ATOM	4650	HB	VAL	299	43.865	30.408	55.888	1.00	0.00	H
ATOM	4651	CG1	VAL	299	41.915	30.953	55.196	1.00	0.00	C
ATOM	4652	HG11	VAL	299	41.393	31.113	54.255	1.00	0.00	H
ATOM	4653	HG12	VAL	299	41.385	30.203	55.785	1.00	0.00	H
ATOM	4654	HG13	VAL	299	41.920	31.879	55.773	1.00	0.00	H
ATOM	4655	CG2	VAL	299	43.269	29.080	54.315	1.00	0.00	C
ATOM	4656	HG21	VAL	299	44.267	28.669	54.167	1.00	0.00	H
ATOM	4657	HG22	VAL	299	42.742	29.117	53.362	1.00	0.00	H
ATOM	4658	HG23	VAL	299	42.732	28.413	54.991	1.00	0.00	H
ATOM	4659	C	VAL	299	44.061	32.881	54.551	1.00	0.00	C
ATOM	4660	O	VAL	299	44.784	33.225	55.484	1.00	0.00	O
ATOM	4661	N	PHE	300	43.165	33.696	53.989	1.00	0.00	N
ATOM	4662	H	PHE	300	42.668	33.358	53.174	1.00	0.00	H
ATOM	4663	CA	PHE	300	42.875	35.054	54.462	1.00	0.00	C
ATOM	4664	HA	PHE	300	42.961	35.076	55.551	1.00	0.00	H
ATOM	4665	CB	PHE	300	43.927	36.016	53.876	1.00	0.00	C
ATOM	4666	HB2	PHE	300	44.857	35.899	54.434	1.00	0.00	H
ATOM	4667	HB3	PHE	300	44.129	35.715	52.847	1.00	0.00	H
ATOM	4668	CG	PHE	300	43.551	37.491	53.868	1.00	0.00	C
ATOM	4669	CD1	PHE	300	43.130	38.134	55.049	1.00	0.00	C
ATOM	4670	HD1	PHE	300	43.072	37.584	55.978	1.00	0.00	H
ATOM	4671	CE1	PHE	300	42.783	39.497	55.024	1.00	0.00	C
ATOM	4672	HE1	PHE	300	42.450	39.988	55.928	1.00	0.00	H
ATOM	4673	CZ	PHE	300	42.900	40.233	53.833	1.00	0.00	C
ATOM	4674	HZ	PHE	300	42.683	41.294	53.825	1.00	0.00	H
ATOM	4675	CE2	PHE	300	43.309	39.595	52.652	1.00	0.00	C
ATOM	4676	HE2	PHE	300	43.405	40.170	51.743	1.00	0.00	H
ATOM	4677	CD2	PHE	300	43.618	38.224	52.666	1.00	0.00	C

ATOM	4678	HD2 PHE	300	43.941	37.742	51.756	1.00	0.00	H
ATOM	4679	C PHE	300	41.452	35.509	54.097	1.00	0.00	C
ATOM	4680	O PHE	300	41.101	35.590	52.913	1.00	0.00	O
ATOM	4681	N GLY	301	40.647	35.873	55.097	1.00	0.00	N
ATOM	4682	H GLY	301	40.913	35.621	56.052	1.00	0.00	H
ATOM	4683	CA GLY	301	39.471	36.727	54.921	1.00	0.00	C
ATOM	4684	HA2 GLY	301	39.823	37.734	54.715	1.00	0.00	H
ATOM	4685	HA3 GLY	301	38.891	36.391	54.065	1.00	0.00	H
ATOM	4686	C GLY	301	38.554	36.804	56.144	1.00	0.00	C
ATOM	4687	O GLY	301	39.015	36.856	57.279	1.00	0.00	O
ATOM	4688	N CYS	302	37.242	36.819	55.901	1.00	0.00	N
ATOM	4689	H CYS	302	36.948	36.729	54.936	1.00	0.00	H
ATOM	4690	CA CYS	302	36.204	36.662	56.924	1.00	0.00	C
ATOM	4691	HA CYS	302	36.621	36.874	57.912	1.00	0.00	H
ATOM	4692	CB CYS	302	35.084	37.677	56.632	1.00	0.00	C
ATOM	4693	HB2 CYS	302	35.475	38.671	56.837	1.00	0.00	H
ATOM	4694	HB3 CYS	302	34.807	37.612	55.579	1.00	0.00	H
ATOM	4695	SG CYS	302	33.594	37.436	57.645	1.00	0.00	S
ATOM	4696	HG CYS	302	33.087	38.670	57.494	1.00	0.00	H
ATOM	4697	C CYS	302	35.684	35.217	56.926	1.00	0.00	C
ATOM	4698	O CYS	302	35.627	34.579	55.876	1.00	0.00	O
ATOM	4699	N SER	303	35.188	34.724	58.064	1.00	0.00	N
ATOM	4700	H SER	303	35.293	35.260	58.914	1.00	0.00	H
ATOM	4701	CA SER	303	34.598	33.380	58.191	1.00	0.00	C
ATOM	4702	HA SER	303	35.363	32.651	57.918	1.00	0.00	H
ATOM	4703	CB SER	303	34.207	33.114	59.650	1.00	0.00	C
ATOM	4704	HB2 SER	303	33.336	33.717	59.911	1.00	0.00	H
ATOM	4705	HB3 SER	303	33.953	32.060	59.761	1.00	0.00	H
ATOM	4706	OG SER	303	35.275	33.434	60.528	1.00	0.00	O
ATOM	4707	HG SER	303	35.058	33.079	61.400	1.00	0.00	H
ATOM	4708	C SER	303	33.381	33.111	57.279	1.00	0.00	C
ATOM	4709	O SER	303	32.972	31.957	57.149	1.00	0.00	O
ATOM	4710	N LYS	304	32.791	34.142	56.644	1.00	0.00	N
ATOM	4711	H LYS	304	33.134	35.066	56.867	1.00	0.00	H
ATOM	4712	CA LYS	304	31.820	33.999	55.533	1.00	0.00	C
ATOM	4713	HA LYS	304	31.159	33.151	55.730	1.00	0.00	H
ATOM	4714	CB LYS	304	30.960	35.275	55.386	1.00	0.00	C
ATOM	4715	HB2 LYS	304	31.615	36.130	55.206	1.00	0.00	H
ATOM	4716	HB3 LYS	304	30.333	35.147	54.502	1.00	0.00	H
ATOM	4717	CG LYS	304	30.036	35.603	56.573	1.00	0.00	C
ATOM	4718	HG2 LYS	304	29.439	34.723	56.818	1.00	0.00	H
ATOM	4719	HG3 LYS	304	30.640	35.872	57.440	1.00	0.00	H
ATOM	4720	CD LYS	304	29.091	36.772	56.219	1.00	0.00	C
ATOM	4721	HD2 LYS	304	29.683	37.642	55.927	1.00	0.00	H
ATOM	4722	HD3 LYS	304	28.465	36.474	55.376	1.00	0.00	H
ATOM	4723	CE LYS	304	28.190	37.154	57.402	1.00	0.00	C
ATOM	4724	HE2 LYS	304	27.694	36.251	57.770	1.00	0.00	H
ATOM	4725	HE3 LYS	304	28.814	37.547	58.210	1.00	0.00	H
ATOM	4726	NZ LYS	304	27.161	38.162	57.032	1.00	0.00	N
ATOM	4727	HZ1 LYS	304	27.538	39.053	56.703	1.00	0.00	H
ATOM	4728	HZ2 LYS	304	26.609	38.443	57.839	1.00	0.00	H
ATOM	4729	HZ3 LYS	304	26.522	37.843	56.308	1.00	0.00	H

ATOM	4730	C	LYS	304	32.498	33.717	54.179	1.00	0.00	C
ATOM	4731	O	LYS	304	32.026	32.888	53.402	1.00	0.00	O
ATOM	4732	N	LYS	305	33.584	34.441	53.882	1.00	0.00	N
ATOM	4733	H	LYS	305	34.005	34.953	54.647	1.00	0.00	H
ATOM	4734	CA	LYS	305	34.260	34.521	52.578	1.00	0.00	C
ATOM	4735	HA	LYS	305	34.156	33.559	52.074	1.00	0.00	H
ATOM	4736	CB	LYS	305	33.561	35.587	51.699	1.00	0.00	C
ATOM	4737	HB2	LYS	305	32.627	35.164	51.323	1.00	0.00	H
ATOM	4738	HB3	LYS	305	33.302	36.440	52.328	1.00	0.00	H
ATOM	4739	CG	LYS	305	34.368	36.138	50.505	1.00	0.00	C
ATOM	4740	HG2	LYS	305	33.735	36.838	49.958	1.00	0.00	H
ATOM	4741	HG3	LYS	305	35.204	36.715	50.902	1.00	0.00	H
ATOM	4742	CD	LYS	305	34.908	35.095	49.511	1.00	0.00	C
ATOM	4743	HD2	LYS	305	35.345	34.256	50.047	1.00	0.00	H
ATOM	4744	HD3	LYS	305	34.098	34.724	48.879	1.00	0.00	H
ATOM	4745	CE	LYS	305	35.994	35.762	48.655	1.00	0.00	C
ATOM	4746	HE2	LYS	305	35.527	36.442	47.936	1.00	0.00	H
ATOM	4747	HE3	LYS	305	36.636	36.351	49.315	1.00	0.00	H
ATOM	4748	NZ	LYS	305	36.842	34.779	47.948	1.00	0.00	N
ATOM	4749	HZ1	LYS	305	37.142	34.039	48.575	1.00	0.00	H
ATOM	4750	HZ2	LYS	305	37.685	35.238	47.616	1.00	0.00	H
ATOM	4751	HZ3	LYS	305	36.370	34.389	47.131	1.00	0.00	H
ATOM	4752	C	LYS	305	35.753	34.791	52.790	1.00	0.00	C
ATOM	4753	O	LYS	305	36.161	35.881	53.195	1.00	0.00	O
ATOM	4754	N	LEU	306	36.548	33.780	52.450	1.00	0.00	N
ATOM	4755	H	LEU	306	36.101	32.935	52.135	1.00	0.00	H
ATOM	4756	CA	LEU	306	38.007	33.761	52.520	1.00	0.00	C
ATOM	4757	HA	LEU	306	38.353	34.725	52.889	1.00	0.00	H
ATOM	4758	CB	LEU	306	38.440	32.703	53.561	1.00	0.00	C
ATOM	4759	HB2	LEU	306	39.524	32.730	53.676	1.00	0.00	H
ATOM	4760	HB3	LEU	306	38.020	33.018	54.518	1.00	0.00	H
ATOM	4761	CG	LEU	306	37.993	31.245	53.298	1.00	0.00	C
ATOM	4762	HG	LEU	306	36.952	31.233	52.977	1.00	0.00	H
ATOM	4763	CD1	LEU	306	38.837	30.534	52.236	1.00	0.00	C
ATOM	4764	HD11	LEU	306	38.658	30.965	51.254	1.00	0.00	H
ATOM	4765	HD12	LEU	306	38.555	29.483	52.191	1.00	0.00	H
ATOM	4766	HD13	LEU	306	39.896	30.607	52.482	1.00	0.00	H
ATOM	4767	CD2	LEU	306	38.081	30.434	54.589	1.00	0.00	C
ATOM	4768	HD21	LEU	306	39.106	30.400	54.954	1.00	0.00	H
ATOM	4769	HD22	LEU	306	37.453	30.887	55.358	1.00	0.00	H
ATOM	4770	HD23	LEU	306	37.726	29.417	54.421	1.00	0.00	H
ATOM	4771	C	LEU	306	38.638	33.589	51.130	1.00	0.00	C
ATOM	4772	O	LEU	306	37.955	33.359	50.128	1.00	0.00	O
ATOM	4773	N	ASN	307	39.958	33.719	51.082	1.00	0.00	N
ATOM	4774	H	ASN	307	40.432	33.954	51.948	1.00	0.00	H
ATOM	4775	CA	ASN	307	40.810	33.627	49.900	1.00	0.00	C
ATOM	4776	HA	ASN	307	40.263	33.144	49.088	1.00	0.00	H
ATOM	4777	CB	ASN	307	41.214	35.053	49.469	1.00	0.00	C
ATOM	4778	HB2	ASN	307	41.983	35.423	50.148	1.00	0.00	H
ATOM	4779	HB3	ASN	307	41.638	35.027	48.466	1.00	0.00	H
ATOM	4780	CG	ASN	307	40.061	36.045	49.475	1.00	0.00	C
ATOM	4781	OD1	ASN	307	39.261	36.110	48.553	1.00	0.00	O

ATOM	4782	ND2	ASN	307	39.915	36.815	50.530	1.00	0.00	N
ATOM	4783	HD21	ASN	307	40.502	36.661	51.346	1.00	0.00	H
ATOM	4784	HD22	ASN	307	39.184	37.501	50.524	1.00	0.00	H
ATOM	4785	C	ASN	307	42.044	32.772	50.242	1.00	0.00	C
ATOM	4786	O	ASN	307	42.346	32.593	51.421	1.00	0.00	O
ATOM	4787	N	TYR	308	42.782	32.292	49.237	1.00	0.00	N
ATOM	4788	H	TYR	308	42.490	32.458	48.287	1.00	0.00	H
ATOM	4789	CA	TYR	308	44.099	31.670	49.435	1.00	0.00	C
ATOM	4790	HA	TYR	308	44.390	31.776	50.479	1.00	0.00	H
ATOM	4791	CB	TYR	308	44.038	30.167	49.142	1.00	0.00	C
ATOM	4792	HB2	TYR	308	43.152	29.750	49.624	1.00	0.00	H
ATOM	4793	HB3	TYR	308	43.930	30.005	48.069	1.00	0.00	H
ATOM	4794	CG	TYR	308	45.253	29.412	49.650	1.00	0.00	C
ATOM	4795	CD1	TYR	308	46.381	29.224	48.828	1.00	0.00	C
ATOM	4796	HD1	TYR	308	46.391	29.619	47.822	1.00	0.00	H
ATOM	4797	CE1	TYR	308	47.496	28.511	49.314	1.00	0.00	C
ATOM	4798	HE1	TYR	308	48.363	28.351	48.691	1.00	0.00	H
ATOM	4799	CZ	TYR	308	47.484	27.980	50.622	1.00	0.00	C
ATOM	4800	OH	TYR	308	48.544	27.258	51.072	1.00	0.00	O
ATOM	4801	HH	TYR	308	48.291	26.624	51.760	1.00	0.00	H
ATOM	4802	CE2	TYR	308	46.364	28.194	51.453	1.00	0.00	C
ATOM	4803	HE2	TYR	308	46.363	27.815	52.461	1.00	0.00	H
ATOM	4804	CD2	TYR	308	45.254	28.909	50.965	1.00	0.00	C
ATOM	4805	HD2	TYR	308	44.396	29.071	51.601	1.00	0.00	H
ATOM	4806	C	TYR	308	45.140	32.404	48.585	1.00	0.00	C
ATOM	4807	O	TYR	308	45.042	32.421	47.354	1.00	0.00	O
ATOM	4808	N	THR	309	46.087	33.080	49.232	1.00	0.00	N
ATOM	4809	H	THR	309	46.181	32.938	50.237	1.00	0.00	H
ATOM	4810	CA	THR	309	46.954	34.096	48.606	1.00	0.00	C
ATOM	4811	HA	THR	309	47.196	33.775	47.594	1.00	0.00	H
ATOM	4812	CB	THR	309	46.172	35.426	48.496	1.00	0.00	C
ATOM	4813	HB	THR	309	45.184	35.209	48.089	1.00	0.00	H
ATOM	4814	CG2	THR	309	45.979	36.157	49.826	1.00	0.00	C
ATOM	4815	HG21	THR	309	45.363	37.042	49.665	1.00	0.00	H
ATOM	4816	HG22	THR	309	46.937	36.469	50.238	1.00	0.00	H
ATOM	4817	HG23	THR	309	45.478	35.504	50.541	1.00	0.00	H
ATOM	4818	OG1	THR	309	46.806	36.314	47.600	1.00	0.00	O
ATOM	4819	HG1	THR	309	46.331	36.251	46.762	1.00	0.00	H
ATOM	4820	C	THR	309	48.290	34.224	49.357	1.00	0.00	C
ATOM	4821	O	THR	309	48.600	33.389	50.206	1.00	0.00	O
ATOM	4822	N	ALA	310	49.101	35.237	49.040	1.00	0.00	N
ATOM	4823	H	ALA	310	48.771	35.914	48.363	1.00	0.00	H
ATOM	4824	CA	ALA	310	50.395	35.493	49.674	1.00	0.00	C
ATOM	4825	HA	ALA	310	50.453	34.934	50.605	1.00	0.00	H
ATOM	4826	CB	ALA	310	51.502	34.983	48.745	1.00	0.00	C
ATOM	4827	HB1	ALA	310	51.489	35.541	47.808	1.00	0.00	H
ATOM	4828	HB2	ALA	310	51.353	33.924	48.536	1.00	0.00	H
ATOM	4829	HB3	ALA	310	52.468	35.120	49.226	1.00	0.00	H
ATOM	4830	C	ALA	310	50.564	36.981	50.012	1.00	0.00	C
ATOM	4831	O	ALA	310	50.348	37.827	49.147	1.00	0.00	O
ATOM	4832	N	ILE	311	50.927	37.313	51.256	1.00	0.00	N
ATOM	4833	H	ILE	311	51.059	36.563	51.931	1.00	0.00	H



ATOM	4834	CA	ILE	311	50.938	38.697	51.765	1.00	0.00	C
ATOM	4835	HA	ILE	311	50.792	39.384	50.933	1.00	0.00	H
ATOM	4836	CB	ILE	311	49.768	38.922	52.760	1.00	0.00	C
ATOM	4837	HB	ILE	311	49.882	38.216	53.585	1.00	0.00	H
ATOM	4838	CG2	ILE	311	49.801	40.349	53.347	1.00	0.00	C
ATOM	4839	HG21	ILE	311	50.733	40.525	53.884	1.00	0.00	H
ATOM	4840	HG22	ILE	311	48.994	40.485	54.066	1.00	0.00	H
ATOM	4841	HG23	ILE	311	49.696	41.087	52.553	1.00	0.00	H
ATOM	4842	CG1	ILE	311	48.412	38.643	52.069	1.00	0.00	C
ATOM	4843	HG12	ILE	311	48.285	39.328	51.233	1.00	0.00	H
ATOM	4844	HG13	ILE	311	48.417	37.629	51.673	1.00	0.00	H
ATOM	4845	CD1	ILE	311	47.184	38.735	52.979	1.00	0.00	C
ATOM	4846	HD11	ILE	311	47.313	38.080	53.841	1.00	0.00	H
ATOM	4847	HD12	ILE	311	46.311	38.408	52.418	1.00	0.00	H
ATOM	4848	HD13	ILE	311	47.016	39.760	53.309	1.00	0.00	H
ATOM	4849	C	ILE	311	52.292	39.040	52.391	1.00	0.00	C
ATOM	4850	O	ILE	311	52.753	38.327	53.281	1.00	0.00	O
ATOM	4851	N	SER	312	52.923	40.133	51.945	1.00	0.00	N
ATOM	4852	H	SER	312	52.513	40.634	51.170	1.00	0.00	H
ATOM	4853	CA	SER	312	54.068	40.782	52.612	1.00	0.00	C
ATOM	4854	HA	SER	312	53.789	41.026	53.638	1.00	0.00	H
ATOM	4855	CB	SER	312	55.301	39.863	52.653	1.00	0.00	C
ATOM	4856	HB2	SER	312	56.087	40.332	53.247	1.00	0.00	H
ATOM	4857	HB3	SER	312	55.048	38.936	53.156	1.00	0.00	H
ATOM	4858	OG	SER	312	55.804	39.615	51.352	1.00	0.00	O
ATOM	4859	HG	SER	312	56.591	39.034	51.447	1.00	0.00	H
ATOM	4860	C	SER	312	54.498	42.076	51.913	1.00	0.00	C
ATOM	4861	O	SER	312	54.014	42.432	50.833	1.00	0.00	O
ATOM	4862	N	ASP	313	55.511	42.720	52.498	1.00	0.00	N
ATOM	4863	H	ASP	313	55.805	42.409	53.413	1.00	0.00	H
ATOM	4864	CA	ASP	313	56.266	43.830	51.919	1.00	0.00	C
ATOM	4865	HA	ASP	313	55.586	44.671	51.835	1.00	0.00	H
ATOM	4866	CB	ASP	313	57.367	44.211	52.924	1.00	0.00	C
ATOM	4867	HB2	ASP	313	56.945	44.224	53.930	1.00	0.00	H
ATOM	4868	HB3	ASP	313	58.161	43.462	52.896	1.00	0.00	H
ATOM	4869	CG	ASP	313	57.950	45.594	52.647	1.00	0.00	C
ATOM	4870	OD1	ASP	313	57.287	46.424	51.991	1.00	0.00	O
ATOM	4871	OD2	ASP	313	59.110	45.878	53.038	1.00	0.00	O
ATOM	4872	C	ASP	313	56.870	43.536	50.520	1.00	0.00	C
ATOM	4873	O	ASP	313	57.108	44.447	49.728	1.00	0.00	O
ATOM	4874	N	THR	314	57.069	42.265	50.147	1.00	0.00	N
ATOM	4875	H	THR	314	56.853	41.522	50.801	1.00	0.00	H
ATOM	4876	CA	THR	314	57.555	41.898	48.803	1.00	0.00	C
ATOM	4877	HA	THR	314	58.475	42.449	48.613	1.00	0.00	H
ATOM	4878	CB	THR	314	57.887	40.397	48.729	1.00	0.00	C
ATOM	4879	HB	THR	314	56.978	39.812	48.874	1.00	0.00	H
ATOM	4880	CG2	THR	314	58.537	40.010	47.401	1.00	0.00	C
ATOM	4881	HG21	THR	314	59.493	40.522	47.299	1.00	0.00	H
ATOM	4882	HG22	THR	314	57.899	40.280	46.563	1.00	0.00	H
ATOM	4883	HG23	THR	314	58.695	38.931	47.384	1.00	0.00	H
ATOM	4884	OG1	THR	314	58.827	40.075	49.731	1.00	0.00	O
ATOM	4885	HG1	THR	314	58.462	39.373	50.298	1.00	0.00	H

ATOM	4886	C	THR	314	56.549	42.296	47.712	1.00	0.00	C
ATOM	4887	O	THR	314	56.937	42.817	46.663	1.00	0.00	O
ATOM	4888	N	VAL	315	55.247	42.136	47.979	1.00	0.00	N
ATOM	4889	H	VAL	315	54.990	41.786	48.895	1.00	0.00	H
ATOM	4890	CA	VAL	315	54.164	42.576	47.078	1.00	0.00	C
ATOM	4891	HA	VAL	315	54.439	42.291	46.065	1.00	0.00	H
ATOM	4892	CB	VAL	315	52.817	41.916	47.445	1.00	0.00	C
ATOM	4893	HB	VAL	315	52.375	42.497	48.252	1.00	0.00	H
ATOM	4894	CG1	VAL	315	51.874	41.965	46.234	1.00	0.00	C
ATOM	4895	HG11	VAL	315	51.591	42.995	46.020	1.00	0.00	H
ATOM	4896	HG12	VAL	315	52.345	41.545	45.348	1.00	0.00	H
ATOM	4897	HG13	VAL	315	50.974	41.393	46.437	1.00	0.00	H
ATOM	4898	CG2	VAL	315	52.905	40.466	47.953	1.00	0.00	C
ATOM	4899	HG21	VAL	315	53.468	40.424	48.884	1.00	0.00	H
ATOM	4900	HG22	VAL	315	53.374	39.813	47.222	1.00	0.00	H
ATOM	4901	HG23	VAL	315	51.903	40.090	48.163	1.00	0.00	H
ATOM	4902	C	VAL	315	53.999	44.102	47.078	1.00	0.00	C
ATOM	4903	O	VAL	315	53.675	44.700	46.050	1.00	0.00	O
ATOM	4904	N	ASN	316	54.294	44.733	48.219	1.00	0.00	N
ATOM	4905	H	ASN	316	54.564	44.165	49.009	1.00	0.00	H
ATOM	4906	CA	ASN	316	54.271	46.183	48.415	1.00	0.00	C
ATOM	4907	HA	ASN	316	53.257	46.539	48.237	1.00	0.00	H
ATOM	4908	CB	ASN	316	54.694	46.459	49.871	1.00	0.00	C
ATOM	4909	HB2	ASN	316	54.323	45.662	50.506	1.00	0.00	H
ATOM	4910	HB3	ASN	316	55.779	46.478	49.941	1.00	0.00	H
ATOM	4911	CG	ASN	316	54.191	47.766	50.439	1.00	0.00	C
ATOM	4912	OD1	ASN	316	53.448	48.492	49.802	1.00	0.00	O
ATOM	4913	ND2	ASN	316	54.576	48.099	51.645	1.00	0.00	N
ATOM	4914	HD21	ASN	316	55.193	47.486	52.174	1.00	0.00	H
ATOM	4915	HD22	ASN	316	54.101	48.855	52.114	1.00	0.00	H
ATOM	4916	C	ASN	316	55.212	46.914	47.455	1.00	0.00	C
ATOM	4917	O	ASN	316	54.864	47.957	46.902	1.00	0.00	O
ATOM	4918	N	VAL	317	56.409	46.356	47.250	1.00	0.00	N
ATOM	4919	H	VAL	317	56.642	45.522	47.779	1.00	0.00	H
ATOM	4920	CA	VAL	317	57.379	46.904	46.300	1.00	0.00	C
ATOM	4921	HA	VAL	317	57.319	47.991	46.357	1.00	0.00	H
ATOM	4922	CB	VAL	317	58.825	46.520	46.669	1.00	0.00	C
ATOM	4923	HB	VAL	317	58.965	45.445	46.545	1.00	0.00	H
ATOM	4924	CG1	VAL	317	59.831	47.281	45.798	1.00	0.00	C
ATOM	4925	HG11	VAL	317	59.710	46.993	44.758	1.00	0.00	H
ATOM	4926	HG12	VAL	317	59.664	48.355	45.882	1.00	0.00	H
ATOM	4927	HG13	VAL	317	60.850	47.047	46.104	1.00	0.00	H
ATOM	4928	CG2	VAL	317	59.159	46.905	48.118	1.00	0.00	C
ATOM	4929	HG21	VAL	317	60.198	46.656	48.332	1.00	0.00	H
ATOM	4930	HG22	VAL	317	58.530	46.341	48.804	1.00	0.00	H
ATOM	4931	HG23	VAL	317	58.997	47.974	48.260	1.00	0.00	H
ATOM	4932	C	VAL	317	57.007	46.537	44.860	1.00	0.00	C
ATOM	4933	O	VAL	317	57.010	47.433	44.022	1.00	0.00	O
ATOM	4934	N	ALA	318	56.579	45.297	44.576	1.00	0.00	N
ATOM	4935	H	ALA	318	56.574	44.602	45.311	1.00	0.00	H
ATOM	4936	CA	ALA	318	56.235	44.858	43.213	1.00	0.00	C
ATOM	4937	HA	ALA	318	57.142	44.866	42.606	1.00	0.00	H

ATOM	4938	CB	ALA	318	55.699	43.419	43.267	1.00	0.00	C
ATOM	4939	HB1	ALA	318	56.415	42.759	43.751	1.00	0.00	H
ATOM	4940	HB2	ALA	318	55.525	43.058	42.252	1.00	0.00	H
ATOM	4941	HB3	ALA	318	54.761	43.386	43.821	1.00	0.00	H
ATOM	4942	C	ALA	318	55.212	45.781	42.520	1.00	0.00	C
ATOM	4943	O	ALA	318	55.434	46.232	41.396	1.00	0.00	O
ATOM	4944	N	SER	319	54.115	46.112	43.212	1.00	0.00	N
ATOM	4945	H	SER	319	53.997	45.711	44.137	1.00	0.00	H
ATOM	4946	CA	SER	319	53.067	46.996	42.679	1.00	0.00	C
ATOM	4947	HA	SER	319	52.788	46.642	41.690	1.00	0.00	H
ATOM	4948	CB	SER	319	51.832	46.895	43.580	1.00	0.00	C
ATOM	4949	HB2	SER	319	51.489	45.860	43.602	1.00	0.00	H
ATOM	4950	HB3	SER	319	52.102	47.194	44.595	1.00	0.00	H
ATOM	4951	OG	SER	319	50.779	47.719	43.130	1.00	0.00	O
ATOM	4952	HG	SER	319	50.539	47.470	42.227	1.00	0.00	H
ATOM	4953	C	SER	319	53.541	48.447	42.500	1.00	0.00	C
ATOM	4954	O	SER	319	53.230	49.086	41.497	1.00	0.00	O
ATOM	4955	N	ARG	320	54.370	48.968	43.413	1.00	0.00	N
ATOM	4956	H	ARG	320	54.657	48.389	44.192	1.00	0.00	H
ATOM	4957	CA	ARG	320	54.900	50.339	43.304	1.00	0.00	C
ATOM	4958	HA	ARG	320	54.098	50.982	42.934	1.00	0.00	H
ATOM	4959	CB	ARG	320	55.298	50.858	44.699	1.00	0.00	C
ATOM	4960	HB2	ARG	320	56.063	50.205	45.123	1.00	0.00	H
ATOM	4961	HB3	ARG	320	55.711	51.863	44.599	1.00	0.00	H
ATOM	4962	CG	ARG	320	54.075	50.910	45.646	1.00	0.00	C
ATOM	4963	HG2	ARG	320	53.307	51.554	45.217	1.00	0.00	H
ATOM	4964	HG3	ARG	320	53.655	49.909	45.737	1.00	0.00	H
ATOM	4965	CD	ARG	320	54.424	51.422	47.053	1.00	0.00	C
ATOM	4966	HD2	ARG	320	55.433	51.087	47.301	1.00	0.00	H
ATOM	4967	HD3	ARG	320	54.419	52.512	47.054	1.00	0.00	H
ATOM	4968	NE	ARG	320	53.508	50.876	48.077	1.00	0.00	N
ATOM	4969	HE	ARG	320	53.579	49.879	48.255	1.00	0.00	H
ATOM	4970	CZ	ARG	320	52.660	51.497	48.883	1.00	0.00	C
ATOM	4971	NH1	ARG	320	52.401	52.770	48.851	1.00	0.00	N
ATOM	4972	HH11	ARG	320	52.785	53.350	48.134	1.00	0.00	H
ATOM	4973	HH12	ARG	320	51.731	53.104	49.527	1.00	0.00	H
ATOM	4974	NH2	ARG	320	52.037	50.819	49.785	1.00	0.00	N
ATOM	4975	HH21	ARG	320	52.282	49.849	49.934	1.00	0.00	H
ATOM	4976	HH22	ARG	320	51.534	51.288	50.551	1.00	0.00	H
ATOM	4977	C	ARG	320	56.007	50.458	42.239	1.00	0.00	C
ATOM	4978	O	ARG	320	56.111	51.503	41.603	1.00	0.00	O
ATOM	4979	N	ILE	321	56.771	49.391	41.977	1.00	0.00	N
ATOM	4980	H	ILE	321	56.655	48.575	42.568	1.00	0.00	H
ATOM	4981	CA	ILE	321	57.722	49.299	40.851	1.00	0.00	C
ATOM	4982	HA	ILE	321	58.284	50.230	40.798	1.00	0.00	H
ATOM	4983	CB	ILE	321	58.723	48.138	41.084	1.00	0.00	C
ATOM	4984	HB	ILE	321	58.152	47.246	41.348	1.00	0.00	H
ATOM	4985	CG2	ILE	321	59.541	47.785	39.826	1.00	0.00	C
ATOM	4986	HG21	ILE	321	58.893	47.347	39.065	1.00	0.00	H
ATOM	4987	HG22	ILE	321	60.307	47.049	40.071	1.00	0.00	H
ATOM	4988	HG23	ILE	321	60.010	48.677	39.413	1.00	0.00	H
ATOM	4989	CG1	ILE	321	59.682	48.440	42.261	1.00	0.00	C

ATOM	4990	HG12	ILE	321	59.099	48.537	43.173	1.00	0.00	H
ATOM	4991	HG13	ILE	321	60.349	47.587	42.389	1.00	0.00	H
ATOM	4992	CD1	ILE	321	60.536	49.710	42.139	1.00	0.00	C
ATOM	4993	HD11	ILE	321	61.050	49.738	41.183	1.00	0.00	H
ATOM	4994	HD12	ILE	321	61.277	49.724	42.939	1.00	0.00	H
ATOM	4995	HD13	ILE	321	59.906	50.593	42.236	1.00	0.00	H
ATOM	4996	C	ILE	321	57.003	49.185	39.500	1.00	0.00	C
ATOM	4997	O	ILE	321	57.424	49.831	38.541	1.00	0.00	O
ATOM	4998	N	GLU	322	55.886	48.453	39.418	1.00	0.00	N
ATOM	4999	H	GLU	322	55.601	47.892	40.214	1.00	0.00	H
ATOM	5000	CA	GLU	322	55.010	48.481	38.236	1.00	0.00	C
ATOM	5001	HA	GLU	322	55.576	48.139	37.369	1.00	0.00	H
ATOM	5002	CB	GLU	322	53.823	47.522	38.444	1.00	0.00	C
ATOM	5003	HB2	GLU	322	54.221	46.512	38.515	1.00	0.00	H
ATOM	5004	HB3	GLU	322	53.346	47.734	39.396	1.00	0.00	H
ATOM	5005	CG	GLU	322	52.763	47.535	37.325	1.00	0.00	C
ATOM	5006	HG2	GLU	322	53.274	47.501	36.360	1.00	0.00	H
ATOM	5007	HG3	GLU	322	52.172	46.625	37.413	1.00	0.00	H
ATOM	5008	CD	GLU	322	51.783	48.721	37.362	1.00	0.00	C
ATOM	5009	OE1	GLU	322	51.519	49.285	38.446	1.00	0.00	O
ATOM	5010	OE2	GLU	322	51.318	49.118	36.271	1.00	0.00	O
ATOM	5011	C	GLU	322	54.552	49.914	37.938	1.00	0.00	C
ATOM	5012	O	GLU	322	54.713	50.398	36.818	1.00	0.00	O
ATOM	5013	N	THR	323	54.059	50.636	38.944	1.00	0.00	N
ATOM	5014	H	THR	323	53.850	50.154	39.814	1.00	0.00	H
ATOM	5015	CA	THR	323	53.565	52.008	38.769	1.00	0.00	C
ATOM	5016	HA	THR	323	52.919	52.023	37.895	1.00	0.00	H
ATOM	5017	CB	THR	323	52.670	52.364	39.964	1.00	0.00	C
ATOM	5018	HB	THR	323	53.170	52.074	40.889	1.00	0.00	H
ATOM	5019	CG2	THR	323	52.286	53.841	40.054	1.00	0.00	C
ATOM	5020	HG21	THR	323	53.167	54.446	40.268	1.00	0.00	H
ATOM	5021	HG22	THR	323	51.564	53.977	40.859	1.00	0.00	H
ATOM	5022	HG23	THR	323	51.839	54.162	39.112	1.00	0.00	H
ATOM	5023	OG1	THR	323	51.447	51.666	39.849	1.00	0.00	O
ATOM	5024	HG1	THR	323	51.589	50.782	39.442	1.00	0.00	H
ATOM	5025	C	THR	323	54.690	53.023	38.481	1.00	0.00	C
ATOM	5026	O	THR	323	54.456	54.027	37.807	1.00	0.00	O
ATOM	5027	N	ALA	324	55.944	52.748	38.861	1.00	0.00	N
ATOM	5028	H	ALA	324	56.103	51.934	39.444	1.00	0.00	H
ATOM	5029	CA	ALA	324	57.100	53.580	38.496	1.00	0.00	C
ATOM	5030	HA	ALA	324	56.887	54.606	38.799	1.00	0.00	H
ATOM	5031	CB	ALA	324	58.319	53.096	39.291	1.00	0.00	C
ATOM	5032	HB1	ALA	324	58.602	52.092	38.976	1.00	0.00	H
ATOM	5033	HB2	ALA	324	58.089	53.089	40.358	1.00	0.00	H
ATOM	5034	HB3	ALA	324	59.159	53.768	39.117	1.00	0.00	H
ATOM	5035	C	ALA	324	57.398	53.610	36.976	1.00	0.00	C
ATOM	5036	O	ALA	324	58.005	54.565	36.482	1.00	0.00	O
ATOM	5037	N	THR	325	56.936	52.611	36.212	1.00	0.00	N
ATOM	5038	H	THR	325	56.449	51.854	36.679	1.00	0.00	H
ATOM	5039	CA	THR	325	57.164	52.496	34.753	1.00	0.00	C
ATOM	5040	HA	THR	325	58.222	52.325	34.566	1.00	0.00	H
ATOM	5041	CB	THR	325	56.379	51.322	34.161	1.00	0.00	C

ATOM	5042	HB	THR	325	56.455	51.382	33.080	1.00	0.00	H
ATOM	5043	CG2	THR	325	56.877	49.940	34.579	1.00	0.00	C
ATOM	5044	HG21	THR	325	56.970	49.867	35.662	1.00	0.00	H
ATOM	5045	HG22	THR	325	57.851	49.759	34.129	1.00	0.00	H
ATOM	5046	HG23	THR	325	56.188	49.173	34.224	1.00	0.00	H
ATOM	5047	OG1	THR	325	55.016	51.446	34.483	1.00	0.00	O
ATOM	5048	HG1	THR	325	54.915	50.996	35.354	1.00	0.00	H
ATOM	5049	C	THR	325	56.761	53.733	33.944	1.00	0.00	C
ATOM	5050	O	THR	325	57.420	54.041	32.951	1.00	0.00	O
ATOM	5051	N	ARG	326	55.708	54.464	34.348	1.00	0.00	N
ATOM	5052	H	ARG	326	55.236	54.175	35.195	1.00	0.00	H
ATOM	5053	CA	ARG	326	55.215	55.644	33.606	1.00	0.00	C
ATOM	5054	HA	ARG	326	55.058	55.359	32.564	1.00	0.00	H
ATOM	5055	CB	ARG	326	53.880	56.180	34.170	1.00	0.00	C
ATOM	5056	HB2	ARG	326	54.036	56.557	35.182	1.00	0.00	H
ATOM	5057	HB3	ARG	326	53.596	57.036	33.555	1.00	0.00	H
ATOM	5058	CG	ARG	326	52.681	55.209	34.158	1.00	0.00	C
ATOM	5059	HG2	ARG	326	51.766	55.797	34.073	1.00	0.00	H
ATOM	5060	HG3	ARG	326	52.743	54.539	33.300	1.00	0.00	H
ATOM	5061	CD	ARG	326	52.602	54.402	35.457	1.00	0.00	C
ATOM	5062	HD2	ARG	326	53.464	53.741	35.521	1.00	0.00	H
ATOM	5063	HD3	ARG	326	52.647	55.095	36.299	1.00	0.00	H
ATOM	5064	NE	ARG	326	51.356	53.629	35.589	1.00	0.00	N
ATOM	5065	HE	ARG	326	50.493	54.152	35.776	1.00	0.00	H
ATOM	5066	CZ	ARG	326	51.265	52.318	35.719	1.00	0.00	C
ATOM	5067	NH1	ARG	326	52.225	51.508	35.395	1.00	0.00	N
ATOM	5068	HH11	ARG	326	53.094	51.828	35.013	1.00	0.00	H
ATOM	5069	HH12	ARG	326	52.054	50.523	35.611	1.00	0.00	H
ATOM	5070	NH2	ARG	326	50.215	51.742	36.204	1.00	0.00	N
ATOM	5071	HH21	ARG	326	49.386	52.282	36.453	1.00	0.00	H
ATOM	5072	HH22	ARG	326	50.252	50.731	36.348	1.00	0.00	H
ATOM	5073	C	ARG	326	56.237	56.786	33.574	1.00	0.00	C
ATOM	5074	O	ARG	326	56.240	57.558	32.616	1.00	0.00	O
ATOM	5075	N	ILE	327	57.086	56.894	34.601	1.00	0.00	N
ATOM	5076	H	ILE	327	57.034	56.191	35.327	1.00	0.00	H
ATOM	5077	CA	ILE	327	58.120	57.933	34.717	1.00	0.00	C
ATOM	5078	HA	ILE	327	57.731	58.868	34.307	1.00	0.00	H
ATOM	5079	CB	ILE	327	58.482	58.180	36.206	1.00	0.00	C
ATOM	5080	HB	ILE	327	58.831	57.238	36.634	1.00	0.00	H
ATOM	5081	CG2	ILE	327	59.624	59.208	36.340	1.00	0.00	C
ATOM	5082	HG21	ILE	327	60.511	58.885	35.796	1.00	0.00	H
ATOM	5083	HG22	ILE	327	59.919	59.312	37.384	1.00	0.00	H
ATOM	5084	HG23	ILE	327	59.297	60.181	35.968	1.00	0.00	H
ATOM	5085	CG1	ILE	327	57.239	58.645	37.005	1.00	0.00	C
ATOM	5086	HG12	ILE	327	56.898	59.606	36.617	1.00	0.00	H
ATOM	5087	HG13	ILE	327	56.432	57.925	36.870	1.00	0.00	H
ATOM	5088	CD1	ILE	327	57.469	58.773	38.517	1.00	0.00	C
ATOM	5089	HD11	ILE	327	57.895	57.849	38.909	1.00	0.00	H
ATOM	5090	HD12	ILE	327	56.515	58.960	39.010	1.00	0.00	H
ATOM	5091	HD13	ILE	327	58.136	59.607	38.735	1.00	0.00	H
ATOM	5092	C	ILE	327	59.353	57.549	33.889	1.00	0.00	C
ATOM	5093	O	ILE	327	59.829	58.343	33.078	1.00	0.00	O

ATOM	5094	N	PHE	328	59.860	56.327	34.081	1.00	0.00	N
ATOM	5095	H	PHE	328	59.384	55.728	34.743	1.00	0.00	H
ATOM	5096	CA	PHE	328	61.163	55.865	33.579	1.00	0.00	C
ATOM	5097	HA	PHE	328	61.806	56.741	33.481	1.00	0.00	H
ATOM	5098	CB	PHE	328	61.803	54.947	34.635	1.00	0.00	C
ATOM	5099	HB2	PHE	328	61.178	54.060	34.755	1.00	0.00	H
ATOM	5100	HB3	PHE	328	62.778	54.615	34.281	1.00	0.00	H
ATOM	5101	CG	PHE	328	62.009	55.615	35.981	1.00	0.00	C
ATOM	5102	CD1	PHE	328	62.902	56.699	36.090	1.00	0.00	C
ATOM	5103	HD1	PHE	328	63.445	57.038	35.220	1.00	0.00	H
ATOM	5104	CE1	PHE	328	63.082	57.345	37.326	1.00	0.00	C
ATOM	5105	HE1	PHE	328	63.759	58.182	37.417	1.00	0.00	H
ATOM	5106	CZ	PHE	328	62.377	56.899	38.456	1.00	0.00	C
ATOM	5107	HZ	PHE	328	62.519	57.392	39.408	1.00	0.00	H
ATOM	5108	CE2	PHE	328	61.491	55.814	38.353	1.00	0.00	C
ATOM	5109	HE2	PHE	328	60.953	55.478	39.228	1.00	0.00	H
ATOM	5110	CD2	PHE	328	61.305	55.171	37.116	1.00	0.00	C
ATOM	5111	HD2	PHE	328	60.619	54.340	37.041	1.00	0.00	H
ATOM	5112	C	PHE	328	61.137	55.234	32.172	1.00	0.00	C
ATOM	5113	O	PHE	328	61.986	54.403	31.859	1.00	0.00	O
ATOM	5114	N	ASN	329	60.174	55.619	31.327	1.00	0.00	N
ATOM	5115	H	ASN	329	59.553	56.338	31.672	1.00	0.00	H
ATOM	5116	CA	ASN	329	59.897	55.110	29.970	1.00	0.00	C
ATOM	5117	HA	ASN	329	59.001	55.632	29.628	1.00	0.00	H
ATOM	5118	CB	ASN	329	61.018	55.499	28.980	1.00	0.00	C
ATOM	5119	HB2	ASN	329	61.936	54.986	29.263	1.00	0.00	H
ATOM	5120	HB3	ASN	329	60.747	55.146	27.986	1.00	0.00	H
ATOM	5121	CG	ASN	329	61.290	56.992	28.863	1.00	0.00	C
ATOM	5122	OD1	ASN	329	60.456	57.780	28.441	1.00	0.00	O
ATOM	5123	ND2	ASN	329	62.490	57.420	29.169	1.00	0.00	N
ATOM	5124	HD21	ASN	329	63.210	56.741	29.401	1.00	0.00	H
ATOM	5125	HD22	ASN	329	62.717	58.391	29.039	1.00	0.00	H
ATOM	5126	C	ASN	329	59.553	53.605	29.857	1.00	0.00	C
ATOM	5127	O	ASN	329	58.558	53.284	29.205	1.00	0.00	O
ATOM	5128	N	SER	330	60.330	52.694	30.458	1.00	0.00	N
ATOM	5129	H	SER	330	61.120	53.053	30.985	1.00	0.00	H
ATOM	5130	CA	SER	330	60.263	51.235	30.248	1.00	0.00	C
ATOM	5131	HA	SER	330	60.478	51.045	29.196	1.00	0.00	H
ATOM	5132	CB	SER	330	61.338	50.517	31.073	1.00	0.00	C
ATOM	5133	HB2	SER	330	62.322	50.924	30.839	1.00	0.00	H
ATOM	5134	HB3	SER	330	61.135	50.662	32.135	1.00	0.00	H
ATOM	5135	OG	SER	330	61.301	49.134	30.767	1.00	0.00	O
ATOM	5136	HG	SER	330	61.476	48.611	31.576	1.00	0.00	H
ATOM	5137	C	SER	330	58.902	50.612	30.578	1.00	0.00	C
ATOM	5138	O	SER	330	58.274	50.951	31.584	1.00	0.00	O
ATOM	5139	N	LYS	331	58.444	49.659	29.754	1.00	0.00	N
ATOM	5140	H	LYS	331	59.048	49.377	28.983	1.00	0.00	H
ATOM	5141	CA	LYS	331	57.197	48.905	29.981	1.00	0.00	C
ATOM	5142	HA	LYS	331	56.473	49.586	30.419	1.00	0.00	H
ATOM	5143	CB	LYS	331	56.609	48.407	28.642	1.00	0.00	C
ATOM	5144	HB2	LYS	331	57.298	47.706	28.168	1.00	0.00	H
ATOM	5145	HB3	LYS	331	55.669	47.891	28.845	1.00	0.00	H

ATOM	5146	CG	LYS	331	56.338	49.591	27.695	1.00	0.00	C
ATOM	5147	HG2	LYS	331	55.856	50.382	28.270	1.00	0.00	H
ATOM	5148	HG3	LYS	331	57.295	49.974	27.335	1.00	0.00	H
ATOM	5149	CD	LYS	331	55.443	49.288	26.481	1.00	0.00	C
ATOM	5150	HD2	LYS	331	55.883	48.500	25.867	1.00	0.00	H
ATOM	5151	HD3	LYS	331	54.453	48.986	26.827	1.00	0.00	H
ATOM	5152	CE	LYS	331	55.358	50.602	25.690	1.00	0.00	C
ATOM	5153	HE2	LYS	331	55.180	51.399	26.416	1.00	0.00	H
ATOM	5154	HE3	LYS	331	56.328	50.808	25.231	1.00	0.00	H
ATOM	5155	NZ	LYS	331	54.284	50.667	24.663	1.00	0.00	N
ATOM	5156	HZ1	LYS	331	53.361	50.391	25.000	1.00	0.00	H
ATOM	5157	HZ2	LYS	331	54.488	50.149	23.825	1.00	0.00	H
ATOM	5158	HZ3	LYS	331	54.128	51.646	24.429	1.00	0.00	H
ATOM	5159	C	LYS	331	57.350	47.783	31.017	1.00	0.00	C
ATOM	5160	O	LYS	331	56.350	47.390	31.613	1.00	0.00	O
ATOM	5161	N	VAL	332	58.578	47.328	31.280	1.00	0.00	N
ATOM	5162	H	VAL	332	59.347	47.741	30.768	1.00	0.00	H
ATOM	5163	CA	VAL	332	58.910	46.309	32.293	1.00	0.00	C
ATOM	5164	HA	VAL	332	58.031	46.117	32.905	1.00	0.00	H
ATOM	5165	CB	VAL	332	59.333	44.974	31.636	1.00	0.00	C
ATOM	5166	HB	VAL	332	60.269	45.131	31.098	1.00	0.00	H
ATOM	5167	CG1	VAL	332	59.565	43.875	32.684	1.00	0.00	C
ATOM	5168	HG11	VAL	332	59.834	42.943	32.187	1.00	0.00	H
ATOM	5169	HG12	VAL	332	60.387	44.148	33.346	1.00	0.00	H
ATOM	5170	HG13	VAL	332	58.662	43.717	33.273	1.00	0.00	H
ATOM	5171	CG2	VAL	332	58.297	44.456	30.627	1.00	0.00	C
ATOM	5172	HG21	VAL	332	58.207	45.149	29.791	1.00	0.00	H
ATOM	5173	HG22	VAL	332	57.325	44.338	31.102	1.00	0.00	H
ATOM	5174	HG23	VAL	332	58.618	43.493	30.229	1.00	0.00	H
ATOM	5175	C	VAL	332	60.015	46.829	33.214	1.00	0.00	C
ATOM	5176	O	VAL	332	61.025	47.346	32.732	1.00	0.00	O
ATOM	5177	N	LEU	333	59.844	46.687	34.530	1.00	0.00	N
ATOM	5178	H	LEU	333	58.961	46.316	34.869	1.00	0.00	H
ATOM	5179	CA	LEU	333	60.856	47.036	35.532	1.00	0.00	C
ATOM	5180	HA	LEU	333	61.828	47.102	35.046	1.00	0.00	H
ATOM	5181	CB	LEU	333	60.526	48.399	36.167	1.00	0.00	C
ATOM	5182	HB2	LEU	333	59.487	48.379	36.501	1.00	0.00	H
ATOM	5183	HB3	LEU	333	61.150	48.515	37.049	1.00	0.00	H
ATOM	5184	CG	LEU	333	60.740	49.628	35.263	1.00	0.00	C
ATOM	5185	HG	LEU	333	60.154	49.525	34.351	1.00	0.00	H
ATOM	5186	CD1	LEU	333	60.267	50.883	36.001	1.00	0.00	C
ATOM	5187	HD11	LEU	333	59.226	50.763	36.297	1.00	0.00	H
ATOM	5188	HD12	LEU	333	60.359	51.750	35.349	1.00	0.00	H
ATOM	5189	HD13	LEU	333	60.867	51.039	36.895	1.00	0.00	H
ATOM	5190	CD2	LEU	333	62.209	49.843	34.887	1.00	0.00	C
ATOM	5191	HD21	LEU	333	62.826	49.880	35.783	1.00	0.00	H
ATOM	5192	HD22	LEU	333	62.556	49.025	34.255	1.00	0.00	H
ATOM	5193	HD23	LEU	333	62.322	50.773	34.331	1.00	0.00	H
ATOM	5194	C	LEU	333	60.982	45.950	36.607	1.00	0.00	C
ATOM	5195	O	LEU	333	59.989	45.363	37.038	1.00	0.00	O
ATOM	5196	N	ILE	334	62.208	45.697	37.069	1.00	0.00	N
ATOM	5197	H	ILE	334	62.989	46.202	36.659	1.00	0.00	H

ATOM	5198	CA	ILE	334	62.500	44.682	38.093	1.00	0.00	C
ATOM	5199	HA	ILE	334	61.569	44.449	38.609	1.00	0.00	H
ATOM	5200	CB	ILE	334	62.994	43.354	37.459	1.00	0.00	C
ATOM	5201	HB	ILE	334	62.983	42.612	38.256	1.00	0.00	H
ATOM	5202	CG2	ILE	334	62.024	42.852	36.373	1.00	0.00	C
ATOM	5203	HG21	ILE	334	60.996	42.935	36.722	1.00	0.00	H
ATOM	5204	HG22	ILE	334	62.223	41.806	36.143	1.00	0.00	H
ATOM	5205	HG23	ILE	334	62.134	43.443	35.463	1.00	0.00	H
ATOM	5206	CG1	ILE	334	64.441	43.441	36.923	1.00	0.00	C
ATOM	5207	HG12	ILE	334	64.496	44.227	36.168	1.00	0.00	H
ATOM	5208	HG13	ILE	334	65.106	43.705	37.744	1.00	0.00	H
ATOM	5209	CD1	ILE	334	64.979	42.141	36.308	1.00	0.00	C
ATOM	5210	HD11	ILE	334	64.930	41.334	37.039	1.00	0.00	H
ATOM	5211	HD12	ILE	334	66.016	42.290	36.011	1.00	0.00	H
ATOM	5212	HD13	ILE	334	64.410	41.870	35.419	1.00	0.00	H
ATOM	5213	C	ILE	334	63.452	45.228	39.164	1.00	0.00	C
ATOM	5214	O	ILE	334	64.330	46.047	38.882	1.00	0.00	O
ATOM	5215	N	HIE	335	63.280	44.774	40.407	1.00	0.00	N
ATOM	5216	H	HIE	335	62.506	44.140	40.580	1.00	0.00	H
ATOM	5217	CA	HIE	335	64.203	45.072	41.511	1.00	0.00	C
ATOM	5218	HA	HIE	335	64.552	46.101	41.403	1.00	0.00	H
ATOM	5219	CB	HIE	335	63.443	44.971	42.840	1.00	0.00	C
ATOM	5220	HB2	HIE	335	62.640	45.710	42.844	1.00	0.00	H
ATOM	5221	HB3	HIE	335	62.994	43.979	42.906	1.00	0.00	H
ATOM	5222	CG	HIE	335	64.306	45.182	44.061	1.00	0.00	C
ATOM	5223	ND1	HIE	335	64.804	44.160	44.873	1.00	0.00	N
ATOM	5224	CE1	HIE	335	65.630	44.756	45.750	1.00	0.00	C
ATOM	5225	HE1	HIE	335	66.181	44.241	46.529	1.00	0.00	H
ATOM	5226	NE2	HIE	335	65.704	46.075	45.505	1.00	0.00	N
ATOM	5227	HE2	HIE	335	66.323	46.729	45.992	1.00	0.00	H
ATOM	5228	CD2	HIE	335	64.873	46.363	44.443	1.00	0.00	C
ATOM	5229	HD2	HIE	335	64.747	47.322	43.956	1.00	0.00	H
ATOM	5230	C	HIE	335	65.453	44.175	41.488	1.00	0.00	C
ATOM	5231	O	HIE	335	65.445	43.084	40.919	1.00	0.00	O
ATOM	5232	N	SER	336	66.520	44.613	42.162	1.00	0.00	N
ATOM	5233	H	SER	336	66.439	45.527	42.590	1.00	0.00	H
ATOM	5234	CA	SER	336	67.823	43.934	42.250	1.00	0.00	C
ATOM	5235	HA	SER	336	68.300	43.990	41.272	1.00	0.00	H
ATOM	5236	CB	SER	336	68.693	44.682	43.267	1.00	0.00	C
ATOM	5237	HB2	SER	336	68.333	45.704	43.348	1.00	0.00	H
ATOM	5238	HB3	SER	336	68.608	44.221	44.253	1.00	0.00	H
ATOM	5239	OG	SER	336	70.046	44.710	42.860	1.00	0.00	O
ATOM	5240	HG	SER	336	70.487	43.929	43.268	1.00	0.00	H
ATOM	5241	C	SER	336	67.759	42.450	42.626	1.00	0.00	C
ATOM	5242	O	SER	336	68.501	41.651	42.059	1.00	0.00	O
ATOM	5243	N	HID	337	66.839	42.036	43.505	1.00	0.00	N
ATOM	5244	H	HID	337	66.216	42.718	43.925	1.00	0.00	H
ATOM	5245	CA	HID	337	66.663	40.615	43.845	1.00	0.00	C
ATOM	5246	HA	HID	337	67.601	40.222	44.240	1.00	0.00	H
ATOM	5247	CB	HID	337	65.581	40.478	44.924	1.00	0.00	C
ATOM	5248	HB2	HID	337	64.655	40.925	44.559	1.00	0.00	H
ATOM	5249	HB3	HID	337	65.390	39.418	45.089	1.00	0.00	H



ATOM	5250	CG	HID	337	65.912	41.090	46.262	1.00	0.00	C
ATOM	5251	ND1	HID	337	65.047	41.158	47.329	1.00	0.00	N
ATOM	5252	HD1	HID	337	64.091	40.802	47.338	1.00	0.00	H
ATOM	5253	CE1	HID	337	65.689	41.738	48.355	1.00	0.00	C
ATOM	5254	HE1	HID	337	65.262	41.923	49.333	1.00	0.00	H
ATOM	5255	NE2	HID	337	66.946	42.047	48.002	1.00	0.00	N
ATOM	5256	CD2	HID	337	67.104	41.624	46.679	1.00	0.00	C
ATOM	5257	HD2	HID	337	68.011	41.705	46.095	1.00	0.00	H
ATOM	5258	C	HID	337	66.298	39.755	42.623	1.00	0.00	C
ATOM	5259	O	HID	337	66.789	38.637	42.482	1.00	0.00	O
ATOM	5260	N	CYS	338	65.491	40.286	41.702	1.00	0.00	N
ATOM	5261	H	CYS	338	65.175	41.240	41.819	1.00	0.00	H
ATOM	5262	CA	CYS	338	65.112	39.610	40.460	1.00	0.00	C
ATOM	5263	HA	CYS	338	64.780	38.597	40.694	1.00	0.00	H
ATOM	5264	CB	CYS	338	63.945	40.372	39.824	1.00	0.00	C
ATOM	5265	HB2	CYS	338	64.293	41.360	39.523	1.00	0.00	H
ATOM	5266	HB3	CYS	338	63.594	39.836	38.941	1.00	0.00	H
ATOM	5267	SG	CYS	338	62.588	40.538	41.015	1.00	0.00	S
ATOM	5268	HG	CYS	338	61.907	41.503	40.374	1.00	0.00	H
ATOM	5269	C	CYS	338	66.274	39.491	39.460	1.00	0.00	C
ATOM	5270	O	CYS	338	66.208	38.672	38.551	1.00	0.00	O
ATOM	5271	N	VAL	339	67.338	40.286	39.618	1.00	0.00	N
ATOM	5272	H	VAL	339	67.318	40.964	40.368	1.00	0.00	H
ATOM	5273	CA	VAL	339	68.599	40.111	38.879	1.00	0.00	C
ATOM	5274	HA	VAL	339	68.387	39.682	37.898	1.00	0.00	H
ATOM	5275	CB	VAL	339	69.308	41.465	38.658	1.00	0.00	C
ATOM	5276	HB	VAL	339	69.538	41.913	39.624	1.00	0.00	H
ATOM	5277	CG1	VAL	339	70.621	41.312	37.880	1.00	0.00	C
ATOM	5278	HG11	VAL	339	70.432	40.831	36.919	1.00	0.00	H
ATOM	5279	HG12	VAL	339	71.068	42.292	37.710	1.00	0.00	H
ATOM	5280	HG13	VAL	339	71.331	40.709	38.446	1.00	0.00	H
ATOM	5281	CG2	VAL	339	68.422	42.443	37.877	1.00	0.00	C
ATOM	5282	HG21	VAL	339	68.169	42.019	36.906	1.00	0.00	H
ATOM	5283	HG22	VAL	339	68.954	43.382	37.730	1.00	0.00	H
ATOM	5284	HG23	VAL	339	67.508	42.656	38.432	1.00	0.00	H
ATOM	5285	C	VAL	339	69.517	39.124	39.608	1.00	0.00	C
ATOM	5286	O	VAL	339	70.054	38.206	39.001	1.00	0.00	O
ATOM	5287	N	GLN	340	69.699	39.289	40.919	1.00	0.00	N
ATOM	5288	H	GLN	340	69.221	40.061	41.371	1.00	0.00	H
ATOM	5289	CA	GLN	340	70.712	38.561	41.700	1.00	0.00	C
ATOM	5290	HA	GLN	340	71.629	38.515	41.109	1.00	0.00	H
ATOM	5291	CB	GLN	340	71.012	39.362	42.977	1.00	0.00	C
ATOM	5292	HB2	GLN	340	70.080	39.543	43.515	1.00	0.00	H
ATOM	5293	HB3	GLN	340	71.676	38.783	43.620	1.00	0.00	H
ATOM	5294	CG	GLN	340	71.688	40.707	42.647	1.00	0.00	C
ATOM	5295	HG2	GLN	340	72.680	40.517	42.238	1.00	0.00	H
ATOM	5296	HG3	GLN	340	71.115	41.246	41.895	1.00	0.00	H
ATOM	5297	CD	GLN	340	71.813	41.608	43.867	1.00	0.00	C
ATOM	5298	OE1	GLN	340	71.075	42.571	44.028	1.00	0.00	O
ATOM	5299	NE2	GLN	340	72.745	41.327	44.748	1.00	0.00	N
ATOM	5300	HE21	GLN	340	72.898	41.973	45.525	1.00	0.00	H
ATOM	5301	HE22	GLN	340	73.351	40.540	44.631	1.00	0.00	H

ATOM	5302	C	GLN	340	70.346	37.099	42.020	1.00	0.00	C
ATOM	5303	O	GLN	340	71.238	36.286	42.278	1.00	0.00	O
ATOM	5304	N	TYR	341	69.057	36.746	41.978	1.00	0.00	N
ATOM	5305	H	TYR	341	68.362	37.477	41.871	1.00	0.00	H
ATOM	5306	CA	TYR	341	68.575	35.360	42.074	1.00	0.00	C
ATOM	5307	HA	TYR	341	69.385	34.741	42.458	1.00	0.00	H
ATOM	5308	CB	TYR	341	67.433	35.280	43.102	1.00	0.00	C
ATOM	5309	HB2	TYR	341	66.574	35.815	42.697	1.00	0.00	H
ATOM	5310	HB3	TYR	341	67.141	34.235	43.221	1.00	0.00	H
ATOM	5311	CG	TYR	341	67.760	35.834	44.487	1.00	0.00	C
ATOM	5312	CD1	TYR	341	68.892	35.377	45.195	1.00	0.00	C
ATOM	5313	HD1	TYR	341	69.539	34.628	44.760	1.00	0.00	H
ATOM	5314	CE1	TYR	341	69.190	35.896	46.472	1.00	0.00	C
ATOM	5315	HE1	TYR	341	70.059	35.551	47.013	1.00	0.00	H
ATOM	5316	CZ	TYR	341	68.357	36.876	47.051	1.00	0.00	C
ATOM	5317	OH	TYR	341	68.650	37.387	48.279	1.00	0.00	O
ATOM	5318	HH	TYR	341	68.140	38.181	48.454	1.00	0.00	H
ATOM	5319	CE2	TYR	341	67.218	37.329	46.350	1.00	0.00	C
ATOM	5320	HE2	TYR	341	66.572	38.071	46.794	1.00	0.00	H
ATOM	5321	CD2	TYR	341	66.921	36.802	45.076	1.00	0.00	C
ATOM	5322	HD2	TYR	341	66.046	37.142	44.540	1.00	0.00	H
ATOM	5323	C	TYR	341	68.221	34.741	40.701	1.00	0.00	C
ATOM	5324	O	TYR	341	67.648	33.653	40.639	1.00	0.00	O
ATOM	5325	N	LEU	342	68.568	35.408	39.592	1.00	0.00	N
ATOM	5326	H	LEU	342	69.080	36.276	39.692	1.00	0.00	H
ATOM	5327	CA	LEU	342	68.465	34.870	38.233	1.00	0.00	C
ATOM	5328	HA	LEU	342	67.693	34.102	38.220	1.00	0.00	H
ATOM	5329	CB	LEU	342	68.037	36.009	37.290	1.00	0.00	C
ATOM	5330	HB2	LEU	342	67.108	36.444	37.654	1.00	0.00	H
ATOM	5331	HB3	LEU	342	68.803	36.782	37.328	1.00	0.00	H
ATOM	5332	CG	LEU	342	67.854	35.599	35.821	1.00	0.00	C
ATOM	5333	HG	LEU	342	68.730	35.054	35.470	1.00	0.00	H
ATOM	5334	CD1	LEU	342	66.615	34.729	35.622	1.00	0.00	C
ATOM	5335	HD11	LEU	342	66.671	33.848	36.254	1.00	0.00	H
ATOM	5336	HD12	LEU	342	66.553	34.425	34.577	1.00	0.00	H
ATOM	5337	HD13	LEU	342	65.722	35.298	35.879	1.00	0.00	H
ATOM	5338	CD2	LEU	342	67.695	36.844	34.963	1.00	0.00	C
ATOM	5339	HD21	LEU	342	66.848	37.435	35.308	1.00	0.00	H
ATOM	5340	HD22	LEU	342	68.602	37.443	35.042	1.00	0.00	H
ATOM	5341	HD23	LEU	342	67.547	36.554	33.924	1.00	0.00	H
ATOM	5342	C	LEU	342	69.794	34.238	37.779	1.00	0.00	C
ATOM	5343	O	LEU	342	70.854	34.839	37.921	1.00	0.00	O
ATOM	5344	N	GLY	343	69.731	33.049	37.171	1.00	0.00	N
ATOM	5345	H	GLY	343	68.838	32.590	37.131	1.00	0.00	H
ATOM	5346	CA	GLY	343	70.879	32.415	36.501	1.00	0.00	C
ATOM	5347	HA2	GLY	343	71.805	32.722	36.990	1.00	0.00	H
ATOM	5348	HA3	GLY	343	70.798	31.334	36.608	1.00	0.00	H
ATOM	5349	C	GLY	343	71.000	32.746	34.999	1.00	0.00	C
ATOM	5350	O	GLY	343	72.066	33.190	34.564	1.00	0.00	O
ATOM	5351	N	PRO	344	69.940	32.530	34.186	1.00	0.00	N
ATOM	5352	CD	PRO	344	68.739	31.778	34.530	1.00	0.00	C
ATOM	5353	HD2	PRO	344	67.994	32.457	34.938	1.00	0.00	H

ATOM	5354	HD3 PRO	344	68.949	30.976	35.238	1.00	0.00	H
ATOM	5355	CG PRO	344	68.228	31.186	33.217	1.00	0.00	C
ATOM	5356	HG2 PRO	344	67.152	31.019	33.234	1.00	0.00	H
ATOM	5357	HG3 PRO	344	68.760	30.258	32.999	1.00	0.00	H
ATOM	5358	CB PRO	344	68.623	32.258	32.206	1.00	0.00	C
ATOM	5359	HB2 PRO	344	67.908	33.082	32.248	1.00	0.00	H
ATOM	5360	HB3 PRO	344	68.691	31.856	31.194	1.00	0.00	H
ATOM	5361	CA PRO	344	69.987	32.712	32.732	1.00	0.00	C
ATOM	5362	HA PRO	344	70.742	32.022	32.351	1.00	0.00	H
ATOM	5363	C PRO	344	70.341	34.125	32.243	1.00	0.00	C
ATOM	5364	O PRO	344	69.907	35.138	32.791	1.00	0.00	O
ATOM	5365	N LYS	345	71.109	34.171	31.150	1.00	0.00	N
ATOM	5366	H LYS	345	71.384	33.285	30.755	1.00	0.00	H
ATOM	5367	CA LYS	345	71.709	35.376	30.553	1.00	0.00	C
ATOM	5368	HA LYS	345	72.127	35.991	31.353	1.00	0.00	H
ATOM	5369	CB LYS	345	72.867	34.940	29.637	1.00	0.00	C
ATOM	5370	HB2 LYS	345	72.498	34.191	28.933	1.00	0.00	H
ATOM	5371	HB3 LYS	345	73.225	35.798	29.063	1.00	0.00	H
ATOM	5372	CG LYS	345	74.049	34.372	30.441	1.00	0.00	C
ATOM	5373	HG2 LYS	345	74.629	35.196	30.858	1.00	0.00	H
ATOM	5374	HG3 LYS	345	73.683	33.756	31.263	1.00	0.00	H
ATOM	5375	CD LYS	345	74.944	33.492	29.565	1.00	0.00	C
ATOM	5376	HD2 LYS	345	74.353	32.644	29.213	1.00	0.00	H
ATOM	5377	HD3 LYS	345	75.304	34.055	28.702	1.00	0.00	H
ATOM	5378	CE LYS	345	76.136	32.985	30.382	1.00	0.00	C
ATOM	5379	HE2 LYS	345	76.929	33.737	30.353	1.00	0.00	H
ATOM	5380	HE3 LYS	345	75.825	32.846	31.423	1.00	0.00	H
ATOM	5381	NZ LYS	345	76.621	31.694	29.851	1.00	0.00	N
ATOM	5382	HZ1 LYS	345	76.679	31.712	28.834	1.00	0.00	H
ATOM	5383	HZ2 LYS	345	75.996	30.947	30.145	1.00	0.00	H
ATOM	5384	HZ3 LYS	345	77.540	31.458	30.213	1.00	0.00	H
ATOM	5385	C LYS	345	70.688	36.254	29.813	1.00	0.00	C
ATOM	5386	O LYS	345	70.556	36.197	28.589	1.00	0.00	O
ATOM	5387	N ILE	346	69.979	37.095	30.562	1.00	0.00	N
ATOM	5388	H ILE	346	70.049	36.983	31.566	1.00	0.00	H
ATOM	5389	CA ILE	346	69.280	38.280	30.033	1.00	0.00	C
ATOM	5390	HA ILE	346	68.874	38.034	29.051	1.00	0.00	H
ATOM	5391	CB ILE	346	68.093	38.681	30.939	1.00	0.00	C
ATOM	5392	HB ILE	346	67.623	39.558	30.492	1.00	0.00	H
ATOM	5393	CG2 ILE	346	67.043	37.556	30.951	1.00	0.00	C
ATOM	5394	HG21 ILE	346	66.778	37.282	29.930	1.00	0.00	H
ATOM	5395	HG22 ILE	346	66.137	37.891	31.453	1.00	0.00	H
ATOM	5396	HG23 ILE	346	67.429	36.676	31.467	1.00	0.00	H
ATOM	5397	CG1 ILE	346	68.560	39.070	32.360	1.00	0.00	C
ATOM	5398	HG12 ILE	346	68.932	38.184	32.870	1.00	0.00	H
ATOM	5399	HG13 ILE	346	69.387	39.771	32.289	1.00	0.00	H
ATOM	5400	CD1 ILE	346	67.480	39.738	33.218	1.00	0.00	C
ATOM	5401	HD11 ILE	346	67.179	40.679	32.761	1.00	0.00	H
ATOM	5402	HD12 ILE	346	67.881	39.944	34.210	1.00	0.00	H
ATOM	5403	HD13 ILE	346	66.614	39.089	33.325	1.00	0.00	H
ATOM	5404	C ILE	346	70.253	39.458	29.839	1.00	0.00	C
ATOM	5405	O ILE	346	71.307	39.527	30.481	1.00	0.00	O

ATOM	5406	N	LYS	347	69.884	40.434	29.001	1.00	0.00	N
ATOM	5407	H	LYS	347	69.011	40.329	28.501	1.00	0.00	H
ATOM	5408	CA	LYS	347	70.581	41.731	28.887	1.00	0.00	C
ATOM	5409	HA	LYS	347	71.648	41.579	29.058	1.00	0.00	H
ATOM	5410	CB	LYS	347	70.427	42.314	27.465	1.00	0.00	C
ATOM	5411	HB2	LYS	347	69.369	42.448	27.231	1.00	0.00	H
ATOM	5412	HB3	LYS	347	70.905	43.295	27.448	1.00	0.00	H
ATOM	5413	CG	LYS	347	71.087	41.438	26.387	1.00	0.00	C
ATOM	5414	HG2	LYS	347	72.091	41.161	26.714	1.00	0.00	H
ATOM	5415	HG3	LYS	347	70.499	40.530	26.247	1.00	0.00	H
ATOM	5416	CD	LYS	347	71.198	42.189	25.051	1.00	0.00	C
ATOM	5417	HD2	LYS	347	70.206	42.515	24.729	1.00	0.00	H
ATOM	5418	HD3	LYS	347	71.833	43.067	25.188	1.00	0.00	H
ATOM	5419	CE	LYS	347	71.812	41.278	23.981	1.00	0.00	C
ATOM	5420	HE2	LYS	347	72.734	40.839	24.376	1.00	0.00	H
ATOM	5421	HE3	LYS	347	71.115	40.464	23.764	1.00	0.00	H
ATOM	5422	NZ	LYS	347	72.125	42.027	22.743	1.00	0.00	N
ATOM	5423	HZ1	LYS	347	72.873	42.698	22.917	1.00	0.00	H
ATOM	5424	HZ2	LYS	347	71.324	42.526	22.385	1.00	0.00	H
ATOM	5425	HZ3	LYS	347	72.467	41.400	22.019	1.00	0.00	H
ATOM	5426	C	LYS	347	70.122	42.713	29.980	1.00	0.00	C
ATOM	5427	O	LYS	347	69.555	43.755	29.679	1.00	0.00	O
ATOM	5428	N	ALA	348	70.332	42.358	31.251	1.00	0.00	N
ATOM	5429	H	ALA	348	70.804	41.485	31.427	1.00	0.00	H
ATOM	5430	CA	ALA	348	69.904	43.168	32.399	1.00	0.00	C
ATOM	5431	HA	ALA	348	68.819	43.286	32.351	1.00	0.00	H
ATOM	5432	CB	ALA	348	70.244	42.428	33.701	1.00	0.00	C
ATOM	5433	HB1	ALA	348	69.932	43.033	34.554	1.00	0.00	H
ATOM	5434	HB2	ALA	348	71.319	42.255	33.766	1.00	0.00	H
ATOM	5435	HB3	ALA	348	69.721	41.477	33.746	1.00	0.00	H
ATOM	5436	C	ALA	348	70.537	44.575	32.382	1.00	0.00	C
ATOM	5437	O	ALA	348	71.735	44.737	32.625	1.00	0.00	O
ATOM	5438	N	ARG	349	69.713	45.590	32.116	1.00	0.00	N
ATOM	5439	H	ARG	349	68.739	45.356	31.927	1.00	0.00	H
ATOM	5440	CA	ARG	349	70.079	47.007	32.040	1.00	0.00	C
ATOM	5441	HA	ARG	349	71.146	47.090	31.828	1.00	0.00	H
ATOM	5442	CB	ARG	349	69.290	47.611	30.865	1.00	0.00	C
ATOM	5443	HB2	ARG	349	69.480	47.000	29.980	1.00	0.00	H
ATOM	5444	HB3	ARG	349	68.222	47.561	31.079	1.00	0.00	H
ATOM	5445	CG	ARG	349	69.670	49.061	30.540	1.00	0.00	C
ATOM	5446	HG2	ARG	349	69.409	49.715	31.373	1.00	0.00	H
ATOM	5447	HG3	ARG	349	70.745	49.115	30.362	1.00	0.00	H
ATOM	5448	CD	ARG	349	68.923	49.515	29.279	1.00	0.00	C
ATOM	5449	HD2	ARG	349	69.043	48.756	28.504	1.00	0.00	H
ATOM	5450	HD3	ARG	349	67.859	49.595	29.497	1.00	0.00	H
ATOM	5451	NE	ARG	349	69.458	50.786	28.762	1.00	0.00	N
ATOM	5452	HE	ARG	349	70.352	50.755	28.288	1.00	0.00	H
ATOM	5453	CZ	ARG	349	68.914	51.986	28.812	1.00	0.00	C
ATOM	5454	NH1	ARG	349	67.781	52.254	29.385	1.00	0.00	N
ATOM	5455	HH11	ARG	349	67.224	51.513	29.817	1.00	0.00	H
ATOM	5456	HH12	ARG	349	67.420	53.189	29.369	1.00	0.00	H
ATOM	5457	NH2	ARG	349	69.540	52.976	28.254	1.00	0.00	N

ATOM	5458	HH21	ARG	349	70.414	52.791	27.780	1.00	0.00	H
ATOM	5459	HH22	ARG	349	69.114	53.895	28.271	1.00	0.00	H
ATOM	5460	C	ARG	349	69.781	47.693	33.372	1.00	0.00	C
ATOM	5461	O	ARG	349	68.637	47.725	33.810	1.00	0.00	O
ATOM	5462	N	PHE	350	70.793	48.248	34.032	1.00	0.00	N
ATOM	5463	H	PHE	350	71.712	48.200	33.625	1.00	0.00	H
ATOM	5464	CA	PHE	350	70.593	49.107	35.205	1.00	0.00	C
ATOM	5465	HA	PHE	350	69.895	48.628	35.894	1.00	0.00	H
ATOM	5466	CB	PHE	350	71.938	49.283	35.925	1.00	0.00	C
ATOM	5467	HB2	PHE	350	72.239	48.320	36.341	1.00	0.00	H
ATOM	5468	HB3	PHE	350	72.692	49.569	35.190	1.00	0.00	H
ATOM	5469	CG	PHE	350	71.939	50.314	37.038	1.00	0.00	C
ATOM	5470	CD1	PHE	350	71.375	50.010	38.292	1.00	0.00	C
ATOM	5471	HD1	PHE	350	70.912	49.048	38.460	1.00	0.00	H
ATOM	5472	CE1	PHE	350	71.411	50.958	39.330	1.00	0.00	C
ATOM	5473	HE1	PHE	350	70.973	50.721	40.289	1.00	0.00	H
ATOM	5474	CZ	PHE	350	72.005	52.214	39.116	1.00	0.00	C
ATOM	5475	HZ	PHE	350	72.040	52.945	39.912	1.00	0.00	H
ATOM	5476	CE2	PHE	350	72.550	52.528	37.860	1.00	0.00	C
ATOM	5477	HE2	PHE	350	73.001	53.497	37.693	1.00	0.00	H
ATOM	5478	CD2	PHE	350	72.515	51.581	36.822	1.00	0.00	C
ATOM	5479	HD2	PHE	350	72.933	51.832	35.856	1.00	0.00	H
ATOM	5480	C	PHE	350	69.987	50.456	34.786	1.00	0.00	C
ATOM	5481	O	PHE	350	70.464	51.060	33.827	1.00	0.00	O
ATOM	5482	N	MET	351	68.968	50.935	35.510	1.00	0.00	N
ATOM	5483	H	MET	351	68.596	50.360	36.259	1.00	0.00	H
ATOM	5484	CA	MET	351	68.299	52.216	35.227	1.00	0.00	C
ATOM	5485	HA	MET	351	68.839	52.715	34.422	1.00	0.00	H
ATOM	5486	CB	MET	351	66.858	51.964	34.741	1.00	0.00	C
ATOM	5487	HB2	MET	351	66.539	50.956	35.014	1.00	0.00	H
ATOM	5488	HB3	MET	351	66.171	52.667	35.212	1.00	0.00	H
ATOM	5489	CG	MET	351	66.760	52.126	33.219	1.00	0.00	C
ATOM	5490	HG2	MET	351	67.502	51.476	32.753	1.00	0.00	H
ATOM	5491	HG3	MET	351	65.776	51.785	32.899	1.00	0.00	H
ATOM	5492	SD	MET	351	67.006	53.824	32.601	1.00	0.00	S
ATOM	5493	CE	MET	351	65.422	54.575	33.063	1.00	0.00	C
ATOM	5494	HE1	MET	351	65.311	54.573	34.147	1.00	0.00	H
ATOM	5495	HE2	MET	351	65.385	55.602	32.700	1.00	0.00	H
ATOM	5496	HE3	MET	351	64.604	54.010	32.613	1.00	0.00	H
ATOM	5497	C	MET	351	68.334	53.221	36.386	1.00	0.00	C
ATOM	5498	O	MET	351	68.223	54.423	36.132	1.00	0.00	O
ATOM	5499	N	GLY	352	68.526	52.786	37.637	1.00	0.00	N
ATOM	5500	H	GLY	352	68.589	51.791	37.816	1.00	0.00	H
ATOM	5501	CA	GLY	352	68.742	53.711	38.754	1.00	0.00	C
ATOM	5502	HA2	GLY	352	69.742	54.137	38.667	1.00	0.00	H
ATOM	5503	HA3	GLY	352	68.024	54.528	38.677	1.00	0.00	H
ATOM	5504	C	GLY	352	68.605	53.104	40.151	1.00	0.00	C
ATOM	5505	O	GLY	352	68.536	51.887	40.329	1.00	0.00	O
ATOM	5506	N	GLN	353	68.546	53.986	41.149	1.00	0.00	N
ATOM	5507	H	GLN	353	68.601	54.970	40.924	1.00	0.00	H
ATOM	5508	CA	GLN	353	68.164	53.687	42.532	1.00	0.00	C
ATOM	5509	HA	GLN	353	67.747	52.686	42.578	1.00	0.00	H

ATOM	5510	CB	GLN	353	69.377	53.756	43.481	1.00	0.00	C
ATOM	5511	HB2	GLN	353	69.725	54.788	43.546	1.00	0.00	H
ATOM	5512	HB3	GLN	353	69.043	53.446	44.471	1.00	0.00	H
ATOM	5513	CG	GLN	353	70.562	52.868	43.058	1.00	0.00	C
ATOM	5514	HG2	GLN	353	70.207	51.853	42.894	1.00	0.00	H
ATOM	5515	HG3	GLN	353	70.966	53.240	42.117	1.00	0.00	H
ATOM	5516	CD	GLN	353	71.701	52.825	44.080	1.00	0.00	C
ATOM	5517	OE1	GLN	353	71.602	53.247	45.223	1.00	0.00	O
ATOM	5518	NE2	GLN	353	72.861	52.328	43.704	1.00	0.00	N
ATOM	5519	HE21	GLN	353	73.608	52.367	44.379	1.00	0.00	H
ATOM	5520	HE22	GLN	353	73.016	52.042	42.754	1.00	0.00	H
ATOM	5521	C	GLN	353	67.082	54.696	42.946	1.00	0.00	C
ATOM	5522	O	GLN	353	67.256	55.885	42.681	1.00	0.00	O
ATOM	5523	N	ILE	354	65.974	54.246	43.548	1.00	0.00	N
ATOM	5524	H	ILE	354	65.880	53.248	43.704	1.00	0.00	H
ATOM	5525	CA	ILE	354	64.812	55.105	43.858	1.00	0.00	C
ATOM	5526	HA	ILE	354	65.139	56.145	43.805	1.00	0.00	H
ATOM	5527	CB	ILE	354	63.685	54.955	42.803	1.00	0.00	C
ATOM	5528	HB	ILE	354	62.966	55.747	43.015	1.00	0.00	H
ATOM	5529	CG2	ILE	354	64.208	55.203	41.376	1.00	0.00	C
ATOM	5530	HG21	ILE	354	64.786	56.128	41.353	1.00	0.00	H
ATOM	5531	HG22	ILE	354	63.375	55.308	40.683	1.00	0.00	H
ATOM	5532	HG23	ILE	354	64.837	54.376	41.050	1.00	0.00	H
ATOM	5533	CG1	ILE	354	62.922	53.612	42.895	1.00	0.00	C
ATOM	5534	HG12	ILE	354	63.552	52.804	42.521	1.00	0.00	H
ATOM	5535	HG13	ILE	354	62.678	53.398	43.934	1.00	0.00	H
ATOM	5536	CD1	ILE	354	61.592	53.622	42.129	1.00	0.00	C
ATOM	5537	HD11	ILE	354	60.960	54.433	42.494	1.00	0.00	H
ATOM	5538	HD12	ILE	354	61.077	52.676	42.293	1.00	0.00	H
ATOM	5539	HD13	ILE	354	61.761	53.748	41.061	1.00	0.00	H
ATOM	5540	C	ILE	354	64.283	54.920	45.288	1.00	0.00	C
ATOM	5541	O	ILE	354	64.459	53.869	45.906	1.00	0.00	O
ATOM	5542	N	GLU	355	63.613	55.948	45.810	1.00	0.00	N
ATOM	5543	H	GLU	355	63.577	56.810	45.274	1.00	0.00	H
ATOM	5544	CA	GLU	355	63.004	55.964	47.148	1.00	0.00	C
ATOM	5545	HA	GLU	355	63.500	55.222	47.776	1.00	0.00	H
ATOM	5546	CB	GLU	355	63.204	57.342	47.803	1.00	0.00	C
ATOM	5547	HB2	GLU	355	62.715	58.082	47.169	1.00	0.00	H
ATOM	5548	HB3	GLU	355	62.702	57.358	48.771	1.00	0.00	H
ATOM	5549	CG	GLU	355	64.683	57.711	48.018	1.00	0.00	C
ATOM	5550	HG2	GLU	355	65.017	57.258	48.953	1.00	0.00	H
ATOM	5551	HG3	GLU	355	65.297	57.289	47.221	1.00	0.00	H
ATOM	5552	CD	GLU	355	64.938	59.224	48.033	1.00	0.00	C
ATOM	5553	OE1	GLU	355	64.359	59.962	47.201	1.00	0.00	O
ATOM	5554	OE2	GLU	355	65.812	59.678	48.811	1.00	0.00	O
ATOM	5555	C	GLU	355	61.499	55.644	47.118	1.00	0.00	C
ATOM	5556	O	GLU	355	60.759	56.148	46.266	1.00	0.00	O
ATOM	5557	N	ALA	356	61.034	54.871	48.103	1.00	0.00	N
ATOM	5558	H	ALA	356	61.699	54.493	48.765	1.00	0.00	H
ATOM	5559	CA	ALA	356	59.624	54.630	48.424	1.00	0.00	C
ATOM	5560	HA	ALA	356	59.070	55.566	48.346	1.00	0.00	H
ATOM	5561	CB	ALA	356	59.048	53.612	47.425	1.00	0.00	C

ATOM	5562	HB1 ALA	356	59.141	53.993	46.407	1.00	0.00	H
ATOM	5563	HB2 ALA	356	57.991	53.440	47.634	1.00	0.00	H
ATOM	5564	HB3 ALA	356	59.589	52.669	47.502	1.00	0.00	H
ATOM	5565	C ALA	356	59.495	54.117	49.872	1.00	0.00	C
ATOM	5566	O ALA	356	60.495	53.702	50.469	1.00	0.00	O
ATOM	5567	N LYS	357	58.267	54.063	50.424	1.00	0.00	N
ATOM	5568	H LYS	357	57.504	54.488	49.915	1.00	0.00	H
ATOM	5569	CA LYS	357	58.013	53.558	51.799	1.00	0.00	C
ATOM	5570	HA LYS	357	56.945	53.632	52.007	1.00	0.00	H
ATOM	5571	CB LYS	357	58.408	52.058	51.776	1.00	0.00	C
ATOM	5572	HB2 LYS	357	58.582	51.771	50.737	1.00	0.00	H
ATOM	5573	HB3 LYS	357	59.361	51.925	52.285	1.00	0.00	H
ATOM	5574	CG LYS	357	57.383	51.037	52.301	1.00	0.00	C
ATOM	5575	HG2 LYS	357	57.449	50.955	53.382	1.00	0.00	H
ATOM	5576	HG3 LYS	357	56.372	51.351	52.034	1.00	0.00	H
ATOM	5577	CD LYS	357	57.630	49.639	51.714	1.00	0.00	C
ATOM	5578	HD2 LYS	357	57.091	48.920	52.332	1.00	0.00	H
ATOM	5579	HD3 LYS	357	57.227	49.597	50.701	1.00	0.00	H
ATOM	5580	CE LYS	357	59.121	49.273	51.687	1.00	0.00	C
ATOM	5581	HE2 LYS	357	59.662	49.984	51.059	1.00	0.00	H
ATOM	5582	HE3 LYS	357	59.495	49.353	52.708	1.00	0.00	H
ATOM	5583	NZ LYS	357	59.339	47.905	51.186	1.00	0.00	N
ATOM	5584	HZ1 LYS	357	60.302	47.613	51.209	1.00	0.00	H
ATOM	5585	HZ2 LYS	357	58.921	47.748	50.282	1.00	0.00	H
ATOM	5586	HZ3 LYS	357	58.835	47.252	51.800	1.00	0.00	H
ATOM	5587	C LYS	357	58.728	54.489	52.822	1.00	0.00	C
ATOM	5588	O LYS	357	59.003	55.638	52.479	1.00	0.00	O
ATOM	5589	N GLY	358	59.013	54.162	54.088	1.00	0.00	N
ATOM	5590	H GLY	358	59.446	54.924	54.590	1.00	0.00	H
ATOM	5591	CA GLY	358	58.586	53.025	54.916	1.00	0.00	C
ATOM	5592	HA2 GLY	358	58.366	53.415	55.911	1.00	0.00	H
ATOM	5593	HA3 GLY	358	57.648	52.624	54.544	1.00	0.00	H
ATOM	5594	C GLY	358	59.605	51.887	55.121	1.00	0.00	C
ATOM	5595	O GLY	358	59.294	50.934	55.822	1.00	0.00	O
ATOM	5596	N LYS	359	60.818	51.976	54.546	1.00	0.00	N
ATOM	5597	H LYS	359	60.966	52.744	53.909	1.00	0.00	H
ATOM	5598	CA LYS	359	61.950	51.053	54.822	1.00	0.00	C
ATOM	5599	HA LYS	359	61.793	50.631	55.816	1.00	0.00	H
ATOM	5600	CB LYS	359	61.983	49.889	53.798	1.00	0.00	C
ATOM	5601	HB2 LYS	359	61.552	50.231	52.857	1.00	0.00	H
ATOM	5602	HB3 LYS	359	63.014	49.602	53.581	1.00	0.00	H
ATOM	5603	CG LYS	359	61.243	48.623	54.273	1.00	0.00	C
ATOM	5604	HG2 LYS	359	60.251	48.898	54.627	1.00	0.00	H
ATOM	5605	HG3 LYS	359	61.122	47.950	53.424	1.00	0.00	H
ATOM	5606	CD LYS	359	61.989	47.856	55.376	1.00	0.00	C
ATOM	5607	HD2 LYS	359	62.816	47.290	54.944	1.00	0.00	H
ATOM	5608	HD3 LYS	359	62.410	48.560	56.094	1.00	0.00	H
ATOM	5609	CE LYS	359	61.053	46.922	56.152	1.00	0.00	C
ATOM	5610	HE2 LYS	359	61.577	46.555	57.039	1.00	0.00	H
ATOM	5611	HE3 LYS	359	60.198	47.496	56.523	1.00	0.00	H
ATOM	5612	NZ LYS	359	60.560	45.754	55.383	1.00	0.00	N
ATOM	5613	HZ1 LYS	359	61.303	45.145	55.089	1.00	0.00	H

ATOM	5614	HZ2 LYS	359	59.975	45.998	54.584	1.00	0.00	H
ATOM	5615	HZ3 LYS	359	59.977	45.189	56.012	1.00	0.00	H
ATOM	5616	C LYS	359	63.330	51.723	54.938	1.00	0.00	C
ATOM	5617	O LYS	359	64.295	51.028	55.227	1.00	0.00	O
ATOM	5618	N ALA	360	63.424	53.041	54.726	1.00	0.00	N
ATOM	5619	H ALA	360	62.579	53.548	54.544	1.00	0.00	H
ATOM	5620	CA ALA	360	64.657	53.835	54.855	1.00	0.00	C
ATOM	5621	HA ALA	360	64.429	54.829	54.470	1.00	0.00	H
ATOM	5622	CB ALA	360	64.978	54.008	56.351	1.00	0.00	C
ATOM	5623	HB1 ALA	360	65.268	53.050	56.787	1.00	0.00	H
ATOM	5624	HB2 ALA	360	64.108	54.399	56.880	1.00	0.00	H
ATOM	5625	HB3 ALA	360	65.804	54.708	56.479	1.00	0.00	H
ATOM	5626	C ALA	360	65.863	53.344	54.006	1.00	0.00	C
ATOM	5627	O ALA	360	67.012	53.646	54.332	1.00	0.00	O
ATOM	5628	N GLU	361	65.618	52.613	52.914	1.00	0.00	N
ATOM	5629	H GLU	361	64.662	52.449	52.648	1.00	0.00	H
ATOM	5630	CA GLU	361	66.631	51.900	52.118	1.00	0.00	C
ATOM	5631	HA GLU	361	67.614	52.315	52.337	1.00	0.00	H
ATOM	5632	CB GLU	361	66.624	50.420	52.560	1.00	0.00	C
ATOM	5633	HB2 GLU	361	66.705	50.367	53.646	1.00	0.00	H
ATOM	5634	HB3 GLU	361	65.653	50.000	52.291	1.00	0.00	H
ATOM	5635	CG GLU	361	67.710	49.515	51.949	1.00	0.00	C
ATOM	5636	HG2 GLU	361	67.341	48.487	51.991	1.00	0.00	H
ATOM	5637	HG3 GLU	361	67.856	49.760	50.896	1.00	0.00	H
ATOM	5638	CD GLU	361	69.051	49.576	52.699	1.00	0.00	C
ATOM	5639	OE1 GLU	361	69.439	50.669	53.175	1.00	0.00	O
ATOM	5640	OE2 GLU	361	69.719	48.520	52.816	1.00	0.00	O
ATOM	5641	C GLU	361	66.326	52.056	50.608	1.00	0.00	C
ATOM	5642	O GLU	361	65.158	51.923	50.225	1.00	0.00	O
ATOM	5643	N PRO	362	67.319	52.357	49.744	1.00	0.00	N
ATOM	5644	CD PRO	362	68.726	52.563	50.072	1.00	0.00	C
ATOM	5645	HD2 PRO	362	69.130	51.736	50.655	1.00	0.00	H
ATOM	5646	HD3 PRO	362	68.836	53.498	50.624	1.00	0.00	H
ATOM	5647	CG PRO	362	69.461	52.666	48.736	1.00	0.00	C
ATOM	5648	HG2 PRO	362	69.745	51.669	48.394	1.00	0.00	H
ATOM	5649	HG3 PRO	362	70.336	53.313	48.804	1.00	0.00	H
ATOM	5650	CB PRO	362	68.394	53.247	47.810	1.00	0.00	C
ATOM	5651	HB2 PRO	362	68.598	53.011	46.765	1.00	0.00	H
ATOM	5652	HB3 PRO	362	68.339	54.328	47.951	1.00	0.00	H
ATOM	5653	CA PRO	362	67.100	52.598	48.315	1.00	0.00	C
ATOM	5654	HA PRO	362	66.279	53.304	48.187	1.00	0.00	H
ATOM	5655	C PRO	362	66.772	51.321	47.524	1.00	0.00	C
ATOM	5656	O PRO	362	67.293	50.234	47.793	1.00	0.00	O
ATOM	5657	N LEU	363	65.938	51.460	46.490	1.00	0.00	N
ATOM	5658	H LEU	363	65.524	52.375	46.337	1.00	0.00	H
ATOM	5659	CA LEU	363	65.538	50.387	45.576	1.00	0.00	C
ATOM	5660	HA LEU	363	65.733	49.419	46.033	1.00	0.00	H
ATOM	5661	CB LEU	363	64.021	50.488	45.316	1.00	0.00	C
ATOM	5662	HB2 LEU	363	63.820	51.447	44.838	1.00	0.00	H
ATOM	5663	HB3 LEU	363	63.734	49.706	44.612	1.00	0.00	H
ATOM	5664	CG LEU	363	63.132	50.382	46.570	1.00	0.00	C
ATOM	5665	HG LEU	363	63.421	51.136	47.302	1.00	0.00	H



ATOM	5666	CD1 LEU	363	61.676	50.639	46.179	1.00	0.00	C
ATOM	5667	HD11 LEU	363	61.585	51.650	45.780	1.00	0.00	H
ATOM	5668	HD12 LEU	363	61.037	50.552	47.056	1.00	0.00	H
ATOM	5669	HD13 LEU	363	61.362	49.926	45.419	1.00	0.00	H
ATOM	5670	CD2 LEU	363	63.223	48.998	47.219	1.00	0.00	C
ATOM	5671	HD21 LEU	363	63.003	48.223	46.486	1.00	0.00	H
ATOM	5672	HD22 LEU	363	64.227	48.848	47.616	1.00	0.00	H
ATOM	5673	HD23 LEU	363	62.520	48.934	48.047	1.00	0.00	H
ATOM	5674	C LEU	363	66.332	50.456	44.261	1.00	0.00	C
ATOM	5675	O LEU	363	66.033	51.287	43.404	1.00	0.00	O
ATOM	5676	N ASN	364	67.321	49.575	44.077	1.00	0.00	N
ATOM	5677	H ASN	364	67.558	48.956	44.843	1.00	0.00	H
ATOM	5678	CA ASN	364	68.033	49.411	42.803	1.00	0.00	C
ATOM	5679	HA ASN	364	68.339	50.396	42.450	1.00	0.00	H
ATOM	5680	CB ASN	364	69.297	48.552	42.992	1.00	0.00	C
ATOM	5681	HB2 ASN	364	69.040	47.633	43.504	1.00	0.00	H
ATOM	5682	HB3 ASN	364	69.688	48.301	42.008	1.00	0.00	H
ATOM	5683	CG ASN	364	70.405	49.213	43.790	1.00	0.00	C
ATOM	5684	OD1 ASN	364	70.213	49.704	44.887	1.00	0.00	O
ATOM	5685	ND2 ASN	364	71.611	49.231	43.272	1.00	0.00	N
ATOM	5686	HD21 ASN	364	71.810	48.740	42.416	1.00	0.00	H
ATOM	5687	HD22 ASN	364	72.330	49.657	43.831	1.00	0.00	H
ATOM	5688	C ASN	364	67.102	48.803	41.737	1.00	0.00	C
ATOM	5689	O ASN	364	66.402	47.819	42.004	1.00	0.00	O
ATOM	5690	N LEU	365	67.116	49.382	40.533	1.00	0.00	N
ATOM	5691	H LEU	365	67.760	50.154	40.390	1.00	0.00	H
ATOM	5692	CA LEU	365	66.055	49.255	39.531	1.00	0.00	C
ATOM	5693	HA LEU	365	65.394	48.434	39.814	1.00	0.00	H
ATOM	5694	CB LEU	365	65.261	50.574	39.584	1.00	0.00	C
ATOM	5695	HB2 LEU	365	64.935	50.737	40.614	1.00	0.00	H
ATOM	5696	HB3 LEU	365	65.933	51.391	39.319	1.00	0.00	H
ATOM	5697	CG LEU	365	64.031	50.651	38.669	1.00	0.00	C
ATOM	5698	HG LEU	365	64.337	50.580	37.626	1.00	0.00	H
ATOM	5699	CD1 LEU	365	63.038	49.534	38.988	1.00	0.00	C
ATOM	5700	HD11 LEU	365	63.365	48.602	38.529	1.00	0.00	H
ATOM	5701	HD12 LEU	365	62.056	49.793	38.600	1.00	0.00	H
ATOM	5702	HD13 LEU	365	62.968	49.396	40.065	1.00	0.00	H
ATOM	5703	CD2 LEU	365	63.344	51.999	38.888	1.00	0.00	C
ATOM	5704	HD21 LEU	365	62.991	52.071	39.916	1.00	0.00	H
ATOM	5705	HD22 LEU	365	64.045	52.811	38.691	1.00	0.00	H
ATOM	5706	HD23 LEU	365	62.500	52.103	38.209	1.00	0.00	H
ATOM	5707	C LEU	365	66.609	48.956	38.126	1.00	0.00	C
ATOM	5708	O LEU	365	67.548	49.619	37.671	1.00	0.00	O
ATOM	5709	N TYR	366	66.011	47.973	37.443	1.00	0.00	N
ATOM	5710	H TYR	366	65.242	47.480	37.884	1.00	0.00	H
ATOM	5711	CA TYR	366	66.548	47.365	36.218	1.00	0.00	C
ATOM	5712	HA TYR	366	67.264	48.060	35.782	1.00	0.00	H
ATOM	5713	CB TYR	366	67.307	46.066	36.562	1.00	0.00	C
ATOM	5714	HB2 TYR	366	66.579	45.315	36.863	1.00	0.00	H
ATOM	5715	HB3 TYR	366	67.790	45.693	35.658	1.00	0.00	H
ATOM	5716	CG TYR	366	68.350	46.166	37.664	1.00	0.00	C
ATOM	5717	CD1 TYR	366	69.726	46.230	37.359	1.00	0.00	C

ATOM	5718	HD1	TYR	366	70.049	46.209	36.327	1.00	0.00	H
ATOM	5719	CE1	TYR	366	70.680	46.290	38.398	1.00	0.00	C
ATOM	5720	HE1	TYR	366	71.737	46.314	38.177	1.00	0.00	H
ATOM	5721	CZ	TYR	366	70.256	46.303	39.745	1.00	0.00	C
ATOM	5722	OH	TYR	366	71.155	46.334	40.763	1.00	0.00	O
ATOM	5723	HH	TYR	366	70.845	45.798	41.511	1.00	0.00	H
ATOM	5724	CE2	TYR	366	68.882	46.262	40.042	1.00	0.00	C
ATOM	5725	HE2	TYR	366	68.555	46.304	41.064	1.00	0.00	H
ATOM	5726	CD2	TYR	366	67.936	46.159	39.009	1.00	0.00	C
ATOM	5727	HD2	TYR	366	66.885	46.092	39.251	1.00	0.00	H
ATOM	5728	C	TYR	366	65.474	47.099	35.141	1.00	0.00	C
ATOM	5729	O	TYR	366	64.276	47.060	35.421	1.00	0.00	O
ATOM	5730	N	GLU	367	65.946	46.903	33.911	1.00	0.00	N
ATOM	5731	H	GLU	367	66.958	46.925	33.820	1.00	0.00	H
ATOM	5732	CA	GLU	367	65.240	46.831	32.622	1.00	0.00	C
ATOM	5733	HA	GLU	367	64.189	46.584	32.777	1.00	0.00	H
ATOM	5734	CB	GLU	367	65.337	48.252	32.007	1.00	0.00	C
ATOM	5735	HB2	GLU	367	64.741	48.922	32.628	1.00	0.00	H
ATOM	5736	HB3	GLU	367	66.374	48.579	32.084	1.00	0.00	H
ATOM	5737	CG	GLU	367	64.896	48.449	30.544	1.00	0.00	C
ATOM	5738	HG2	GLU	367	65.540	47.853	29.894	1.00	0.00	H
ATOM	5739	HG3	GLU	367	63.867	48.099	30.435	1.00	0.00	H
ATOM	5740	CD	GLU	367	65.015	49.912	30.090	1.00	0.00	C
ATOM	5741	OE1	GLU	367	65.917	50.637	30.575	1.00	0.00	O
ATOM	5742	OE2	GLU	367	64.232	50.370	29.227	1.00	0.00	O
ATOM	5743	C	GLU	367	65.875	45.724	31.736	1.00	0.00	C
ATOM	5744	O	GLU	367	66.925	45.177	32.088	1.00	0.00	O
ATOM	5745	N	ILE	368	65.257	45.380	30.595	1.00	0.00	N
ATOM	5746	H	ILE	368	64.432	45.898	30.317	1.00	0.00	H
ATOM	5747	CA	ILE	368	65.766	44.449	29.559	1.00	0.00	C
ATOM	5748	HA	ILE	368	66.853	44.399	29.626	1.00	0.00	H
ATOM	5749	CB	ILE	368	65.183	43.021	29.740	1.00	0.00	C
ATOM	5750	HB	ILE	368	64.129	43.053	29.455	1.00	0.00	H
ATOM	5751	CG2	ILE	368	65.918	42.053	28.793	1.00	0.00	C
ATOM	5752	HG21	ILE	368	65.834	42.399	27.763	1.00	0.00	H
ATOM	5753	HG22	ILE	368	65.474	41.060	28.835	1.00	0.00	H
ATOM	5754	HG23	ILE	368	66.973	42.006	29.062	1.00	0.00	H
ATOM	5755	CG1	ILE	368	65.266	42.506	31.198	1.00	0.00	C
ATOM	5756	HG12	ILE	368	66.311	42.476	31.509	1.00	0.00	H
ATOM	5757	HG13	ILE	368	64.739	43.199	31.853	1.00	0.00	H
ATOM	5758	CD1	ILE	368	64.626	41.130	31.431	1.00	0.00	C
ATOM	5759	HD11	ILE	368	63.607	41.123	31.041	1.00	0.00	H
ATOM	5760	HD12	ILE	368	64.595	40.92				